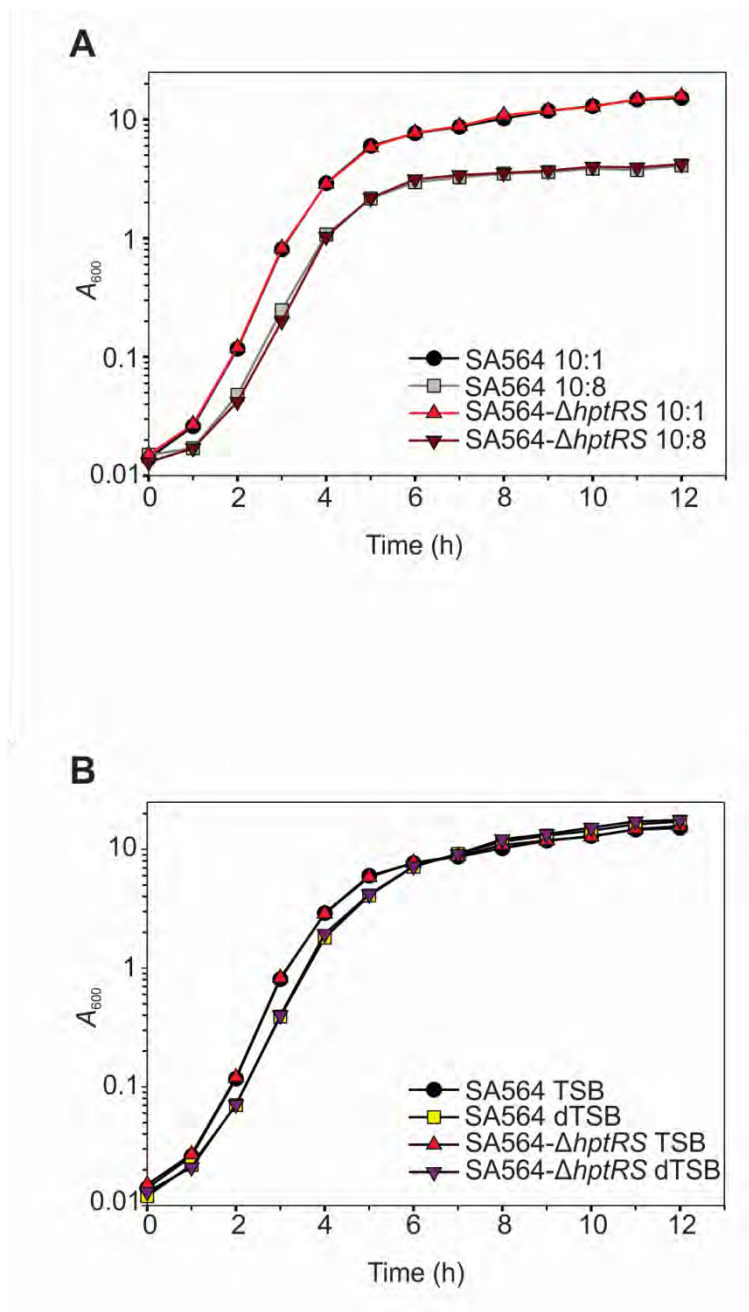
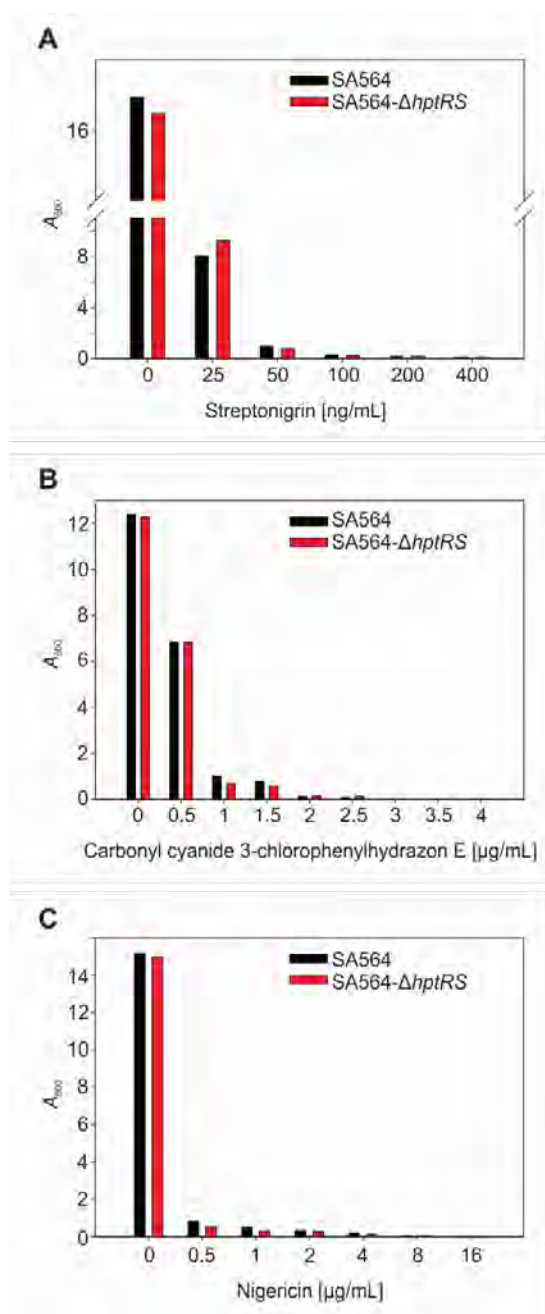


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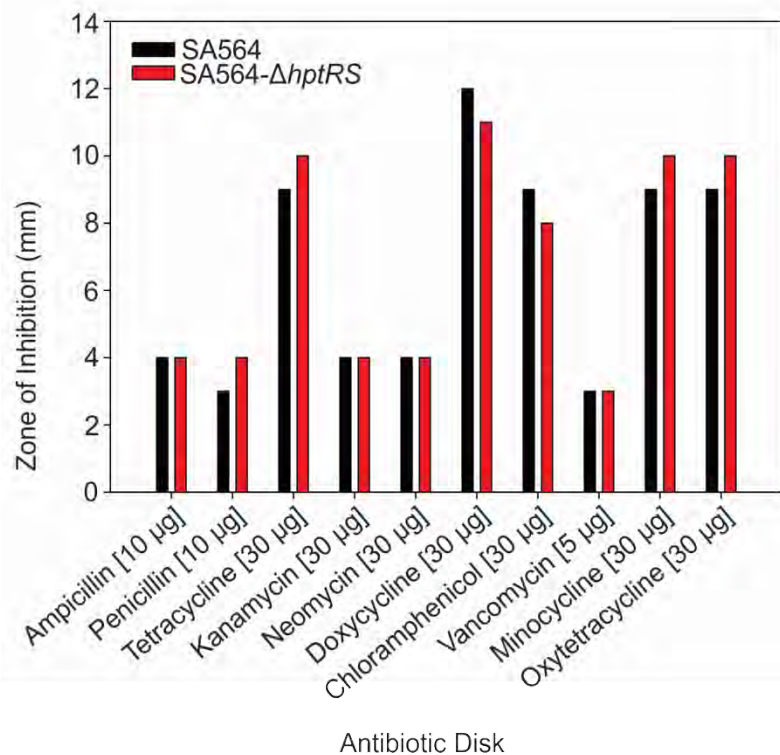


**Figure A** *S. aureus* strains SA564 and SA564- $\Delta hptRS$  grow equivalently when cultivated anaerobically (A) or in iron-limited TSB (B). To assess anaerobic growth *S. aureus* strains were cultivated with a flask to medium ratio of 10:1 (aerobic) or 10:8 (anaerobic), at 37 °C under aeration at 225 rpm. To assess growth in iron limited TSB, deferrated TSB (dTSB) was prepared as described<sup>1</sup>. Data is represented as the average of three biological replicates.

- (1) Sadykov, M. R.; Zhang, B.; Halouska, S.; Nelson, J. L.; Kreimer, L. W.; Zhu, Y.; Powers, R.; Somerville, G. A. Using NMR metabolomics to investigate tricarboxylic acid cycle-dependent signal transduction in *Staphylococcus epidermidis*. *J. Biol. Chem.* **2010**, 285 (47), 36616–36624.



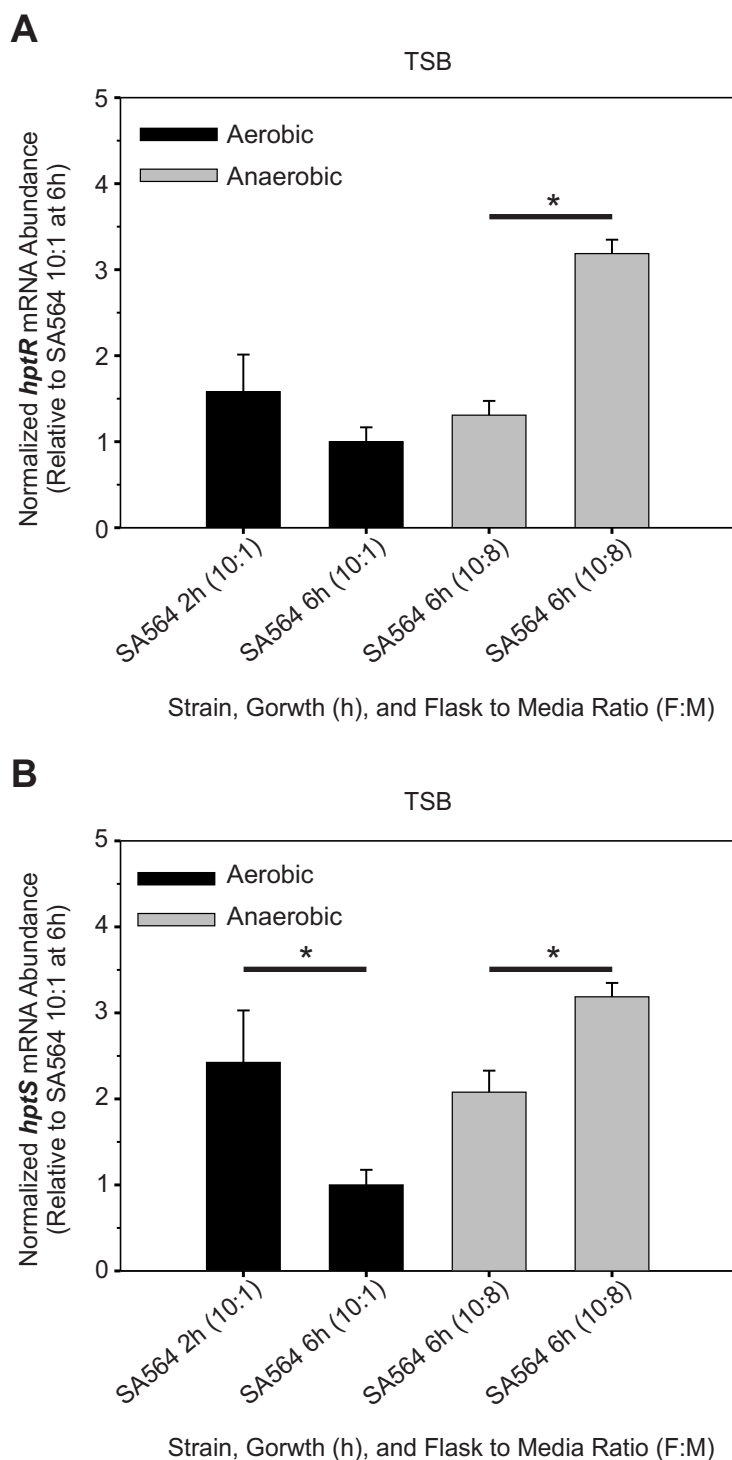
**Figure B.** *S. aureus* strains SA564 and SA564- $\Delta hptRS$  grow equivalently when cultivated in the presence of streptonigrin (A), carbonyl cyanide 3-chlorophenylhydrazon E (B), or Nigericin (C). The absorbance was recorded after 18 h of incubation at 37 °C under aeration at 225 rpm with and without streptonigrin, carbonyl cyanide 3-chlorophenylhydrazon E, or nigericin. Data are representative of at least two biological replicates.



**Figure C.** Antibiotic resistance profiles are equivalent for SA564 relative to SA564- $\Delta$ hptRS. Antibiotic susceptibility was investigated using antibiotic disks on TSA. Data represent the mean zone of inhibition for 3 technical replicates.

**Figure D.** There were no observed growth differences between SA564 and SA564- $\Delta hptRS$  when diamide, paraquat, or H<sub>2</sub>O<sub>2</sub> were added to the culture medium. Bacterial strains were inoculated from a single colony on TSA into TSB and incubated at 37 °C under aeration at 225 rpm. A 2 h pre-culture was prepared as described. After pre-incubation the  $A_6$  was recorded and bacteria were diluted to .5 McFarland units (i.e.,  $A_6 = .8$ ;  $1.5 \times 10^8$  CFU/mL). This bacterial suspension was used for initial inoculation (2  $\mu$ L) into 2mL prewarmed TSB, in 17x1 mm test tubes, with or without the listed compounds. Growth was visually inspected at 2 h, 6 h, and 24 h post inoculation and no differences were observed between SA564 and SA564- $\Delta hptRS$ .

Compound	Concentration
Diamide	10 mM
	1 mM
	0.1 mM
	0.01 mM
Paraquat	50 mM
	25 mM
	10 mM
	5mM
	1 mM
	0.1 mM
	0.01 mM
	0.001 mM
H <sub>2</sub> O <sub>2</sub>	2.5 mM
	5 mM
	10 mM
	20 mM
	30 mM



**Figure E. Transcript abundance of *hptR* and *hptS* is temporally regulated.** Relative mRNA levels during the exponential and post-exponential growth phases were determined by RT-qPCR for genes *hptR* (A) and *hptS* (B). The data are represented as the mean and standard error of the mean for 3 biological replicates, each determined in technical duplicate. The data were normalized using 16S rRNA and are plotted relative to SA564 6h (1:1). A statistically significant difference ( $p \leq 5$ ) between exponential (2h) and post-exponential (6h) growth phases is represented with an (\*). Bacteria were cultivated in TSB with a flask-to-medium ratio of 1:1, or 1:8.

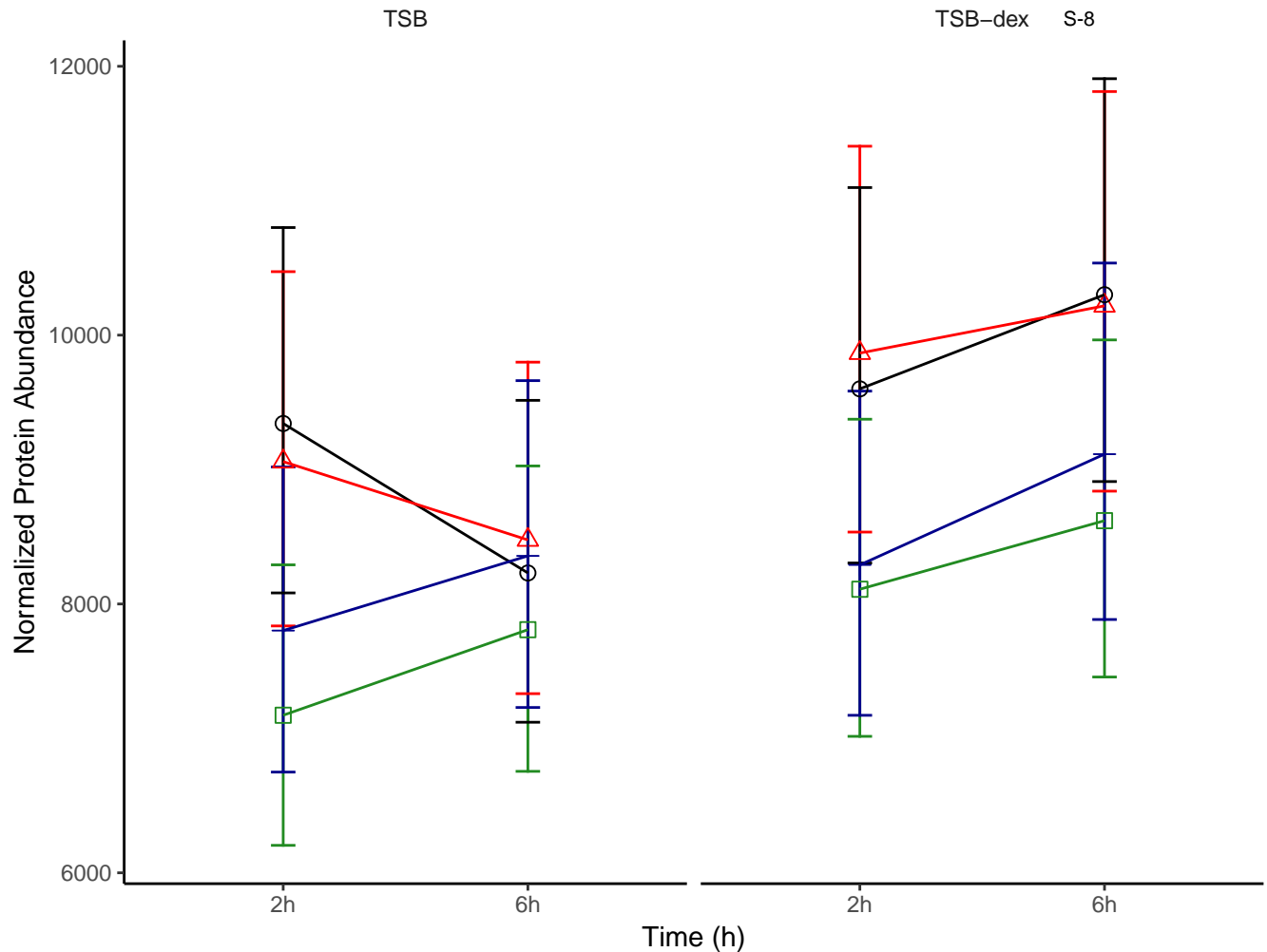
**Figure F.**

3-way analysis: s x m x h

Pages: S7-S508

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if a significant three way interaction was identified between strain, media, and hour.

# 6PGD\_STAAM



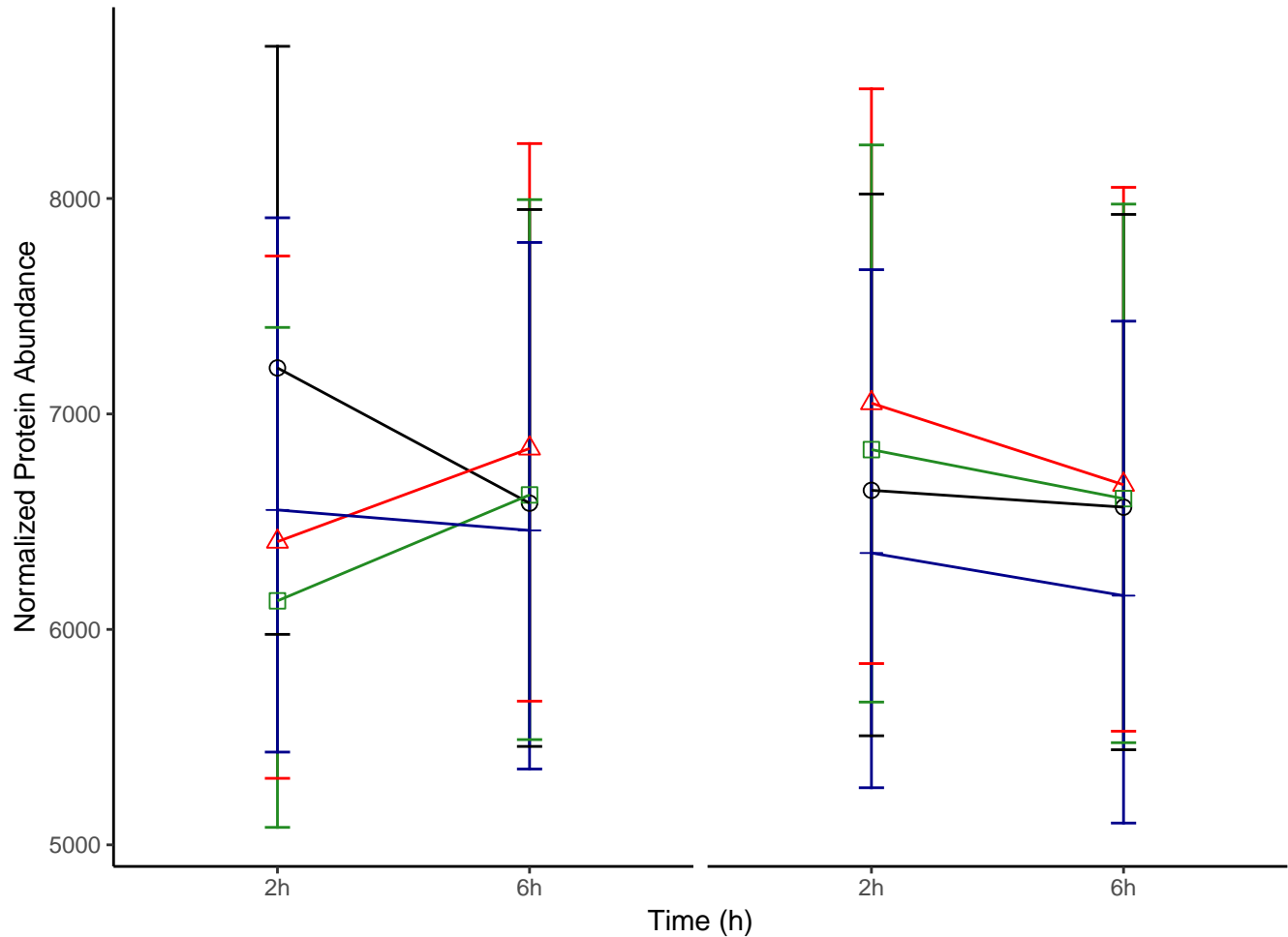
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# ACCA\_STAAM

TSB

TSB-dex S-9

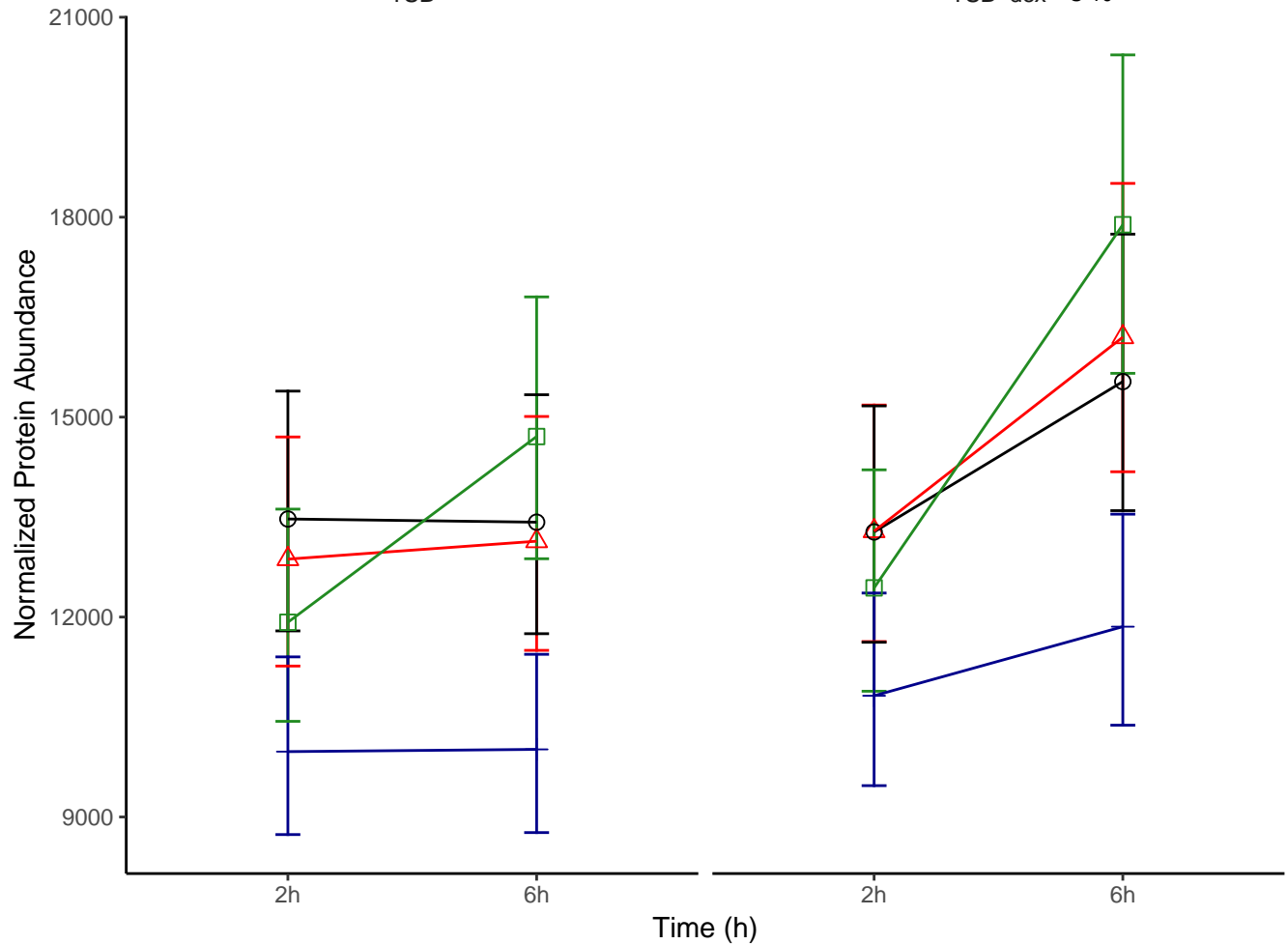


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACKA\_STAAM

TSB

TSB-dex S-10

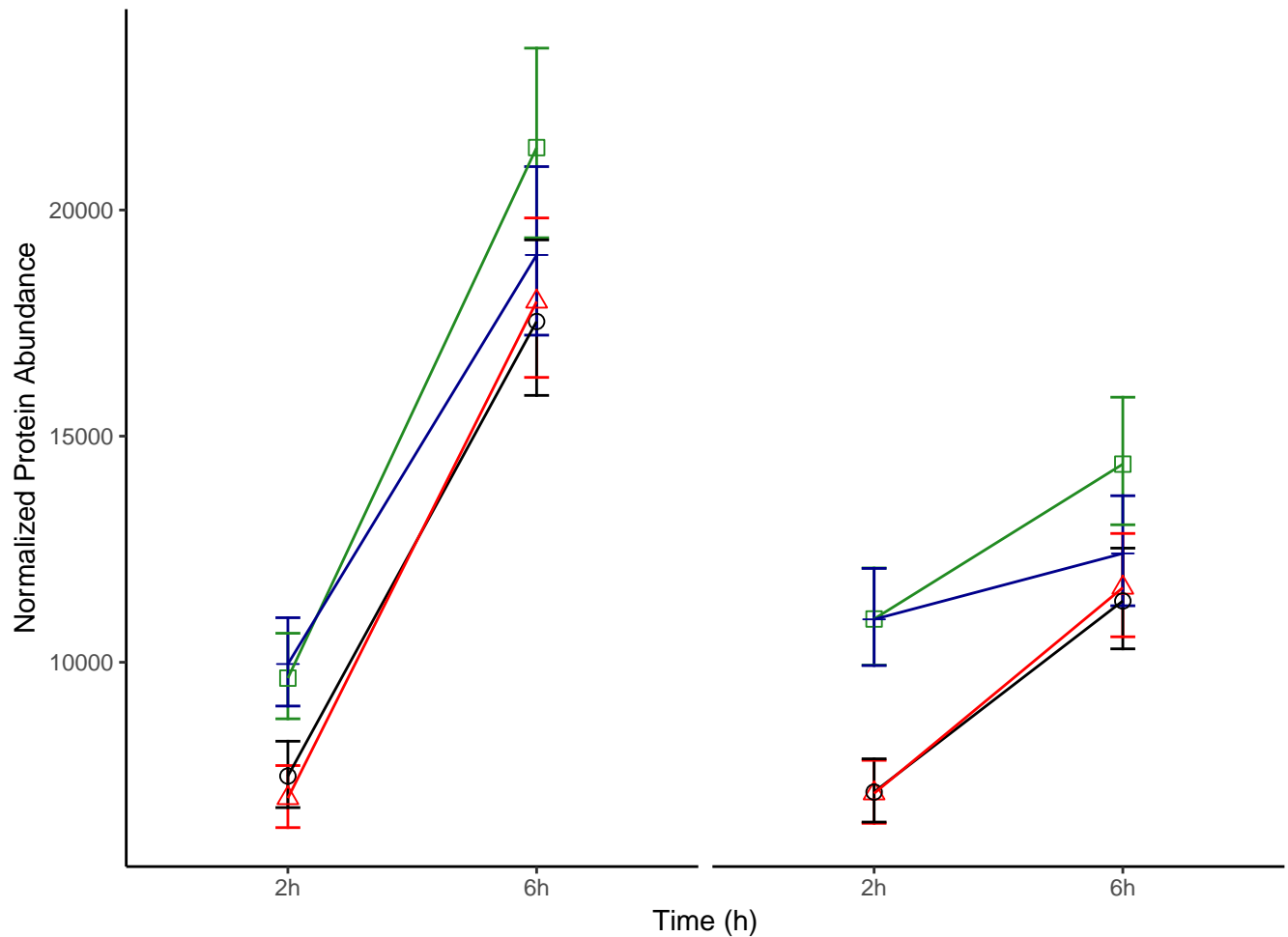


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACON\_STAAM

TSB

TSB-dex S-11

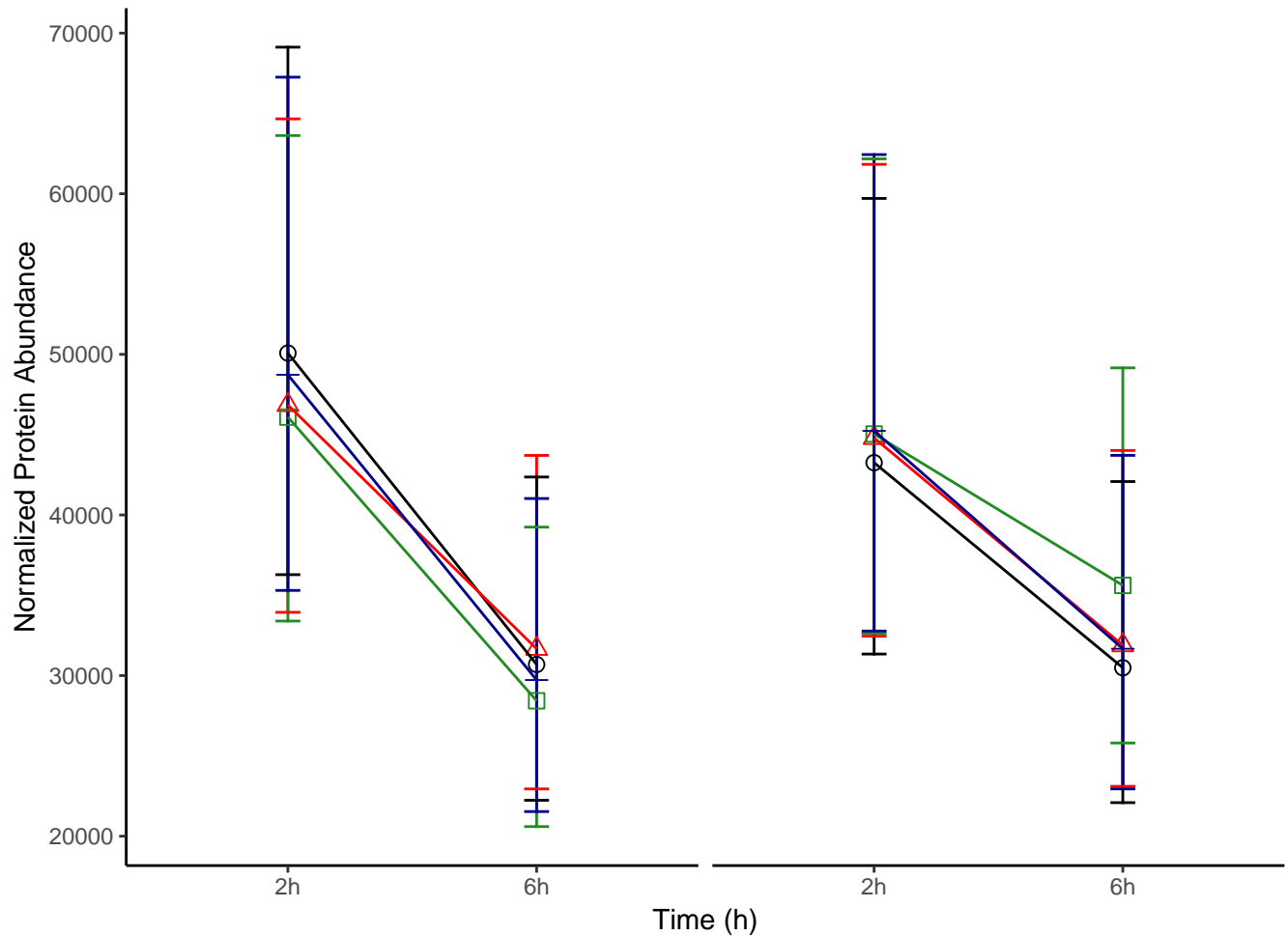


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACP\_STAAM

TSB

TSB-dex S-12

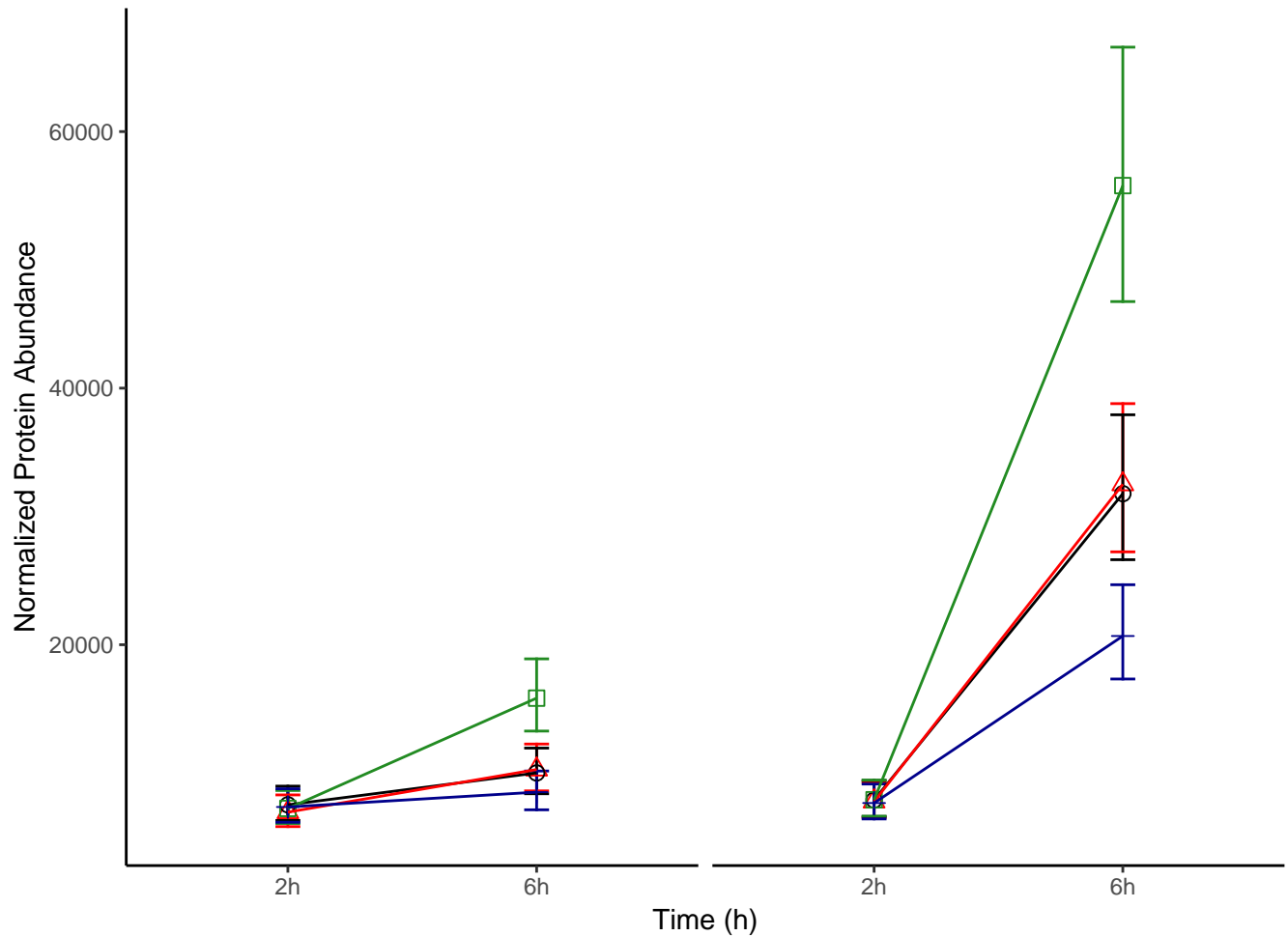


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ADH\_STAAM

TSB

TSB-dex S-13

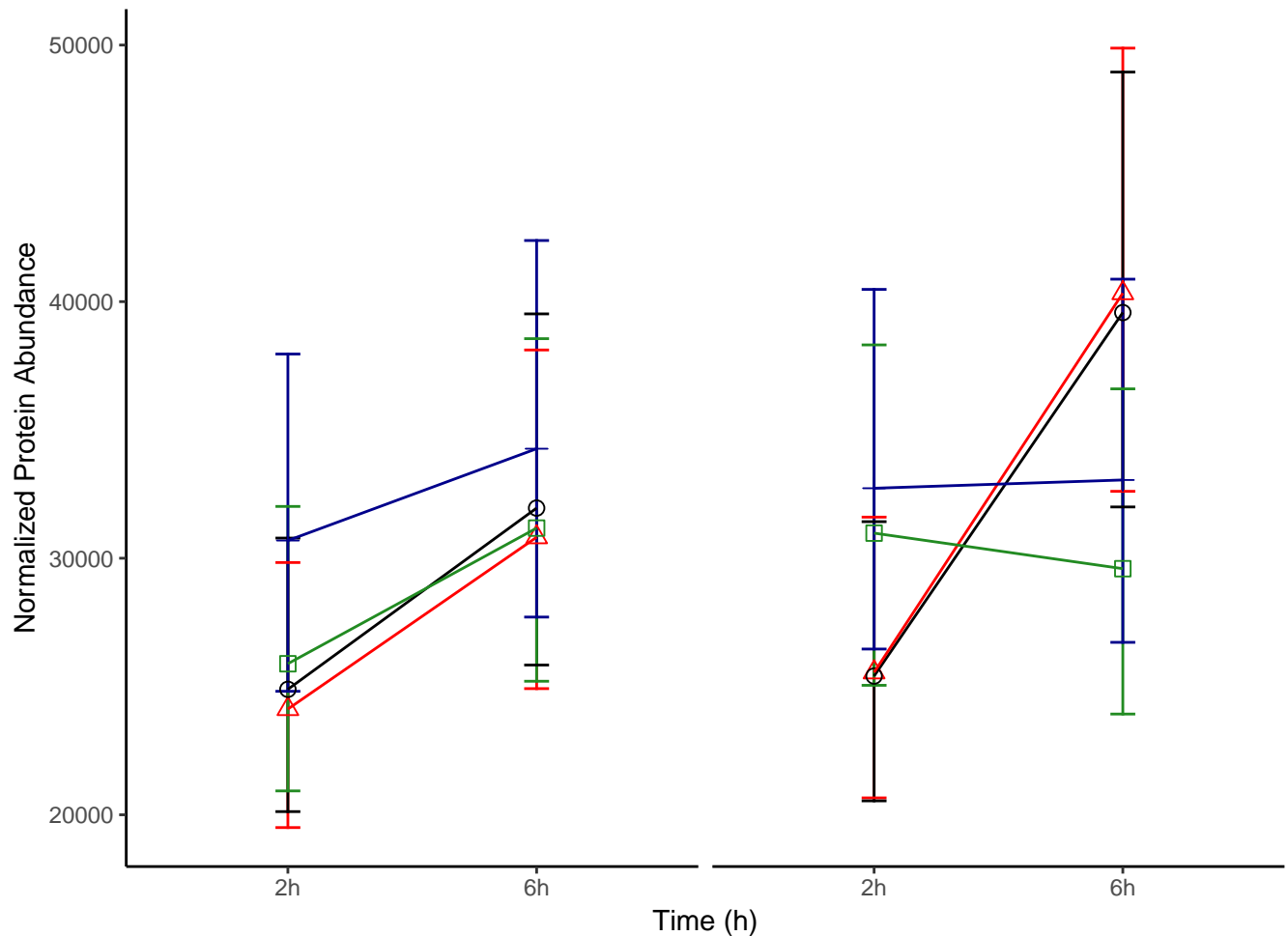


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AHPC\_STAAM

TSB

TSB-dex S-14

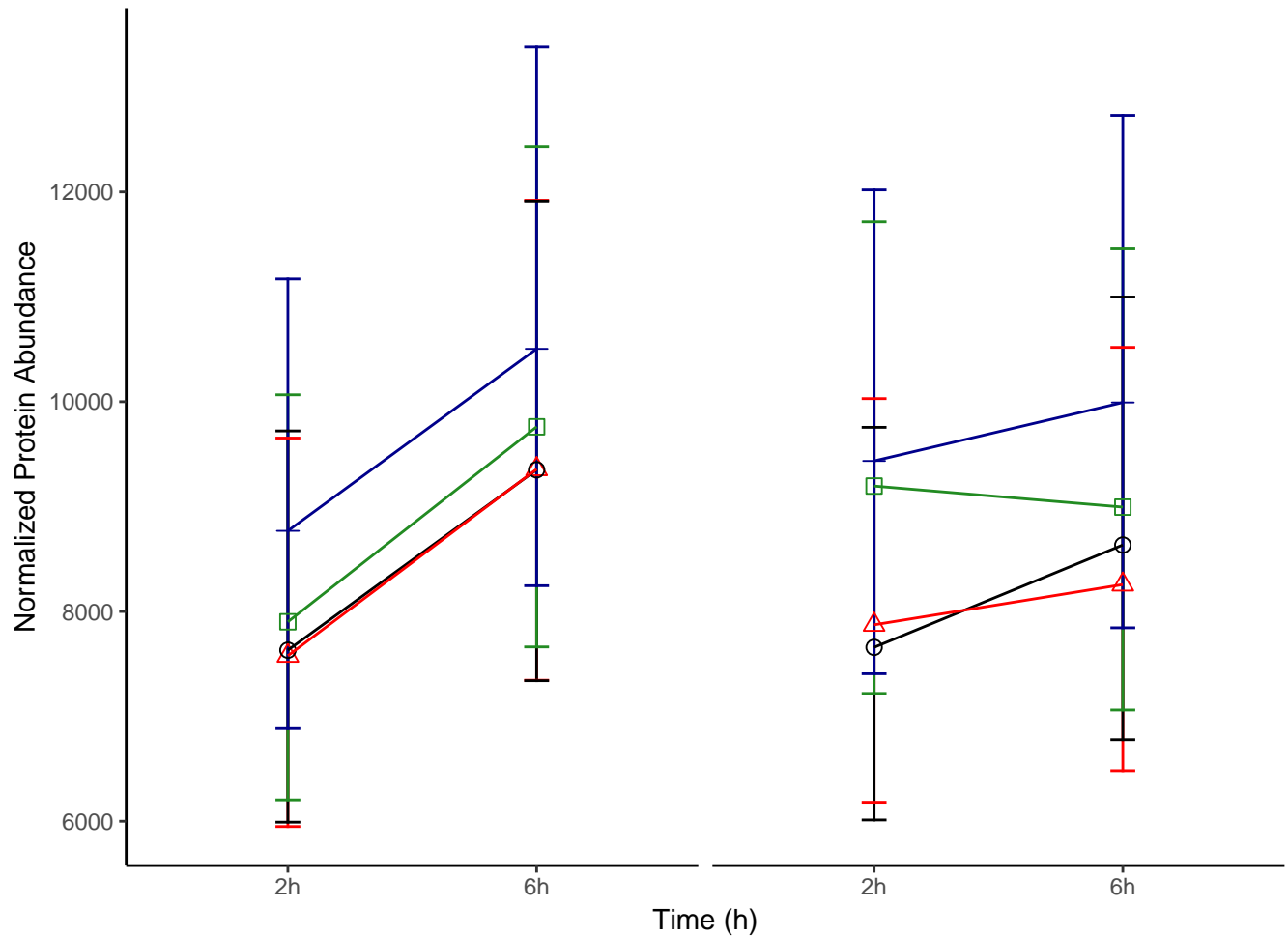


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- ⊕ SA564- $\Delta hptRS/ccpA$

# AHPF\_STAAM

TSB

TSB-dex S-15

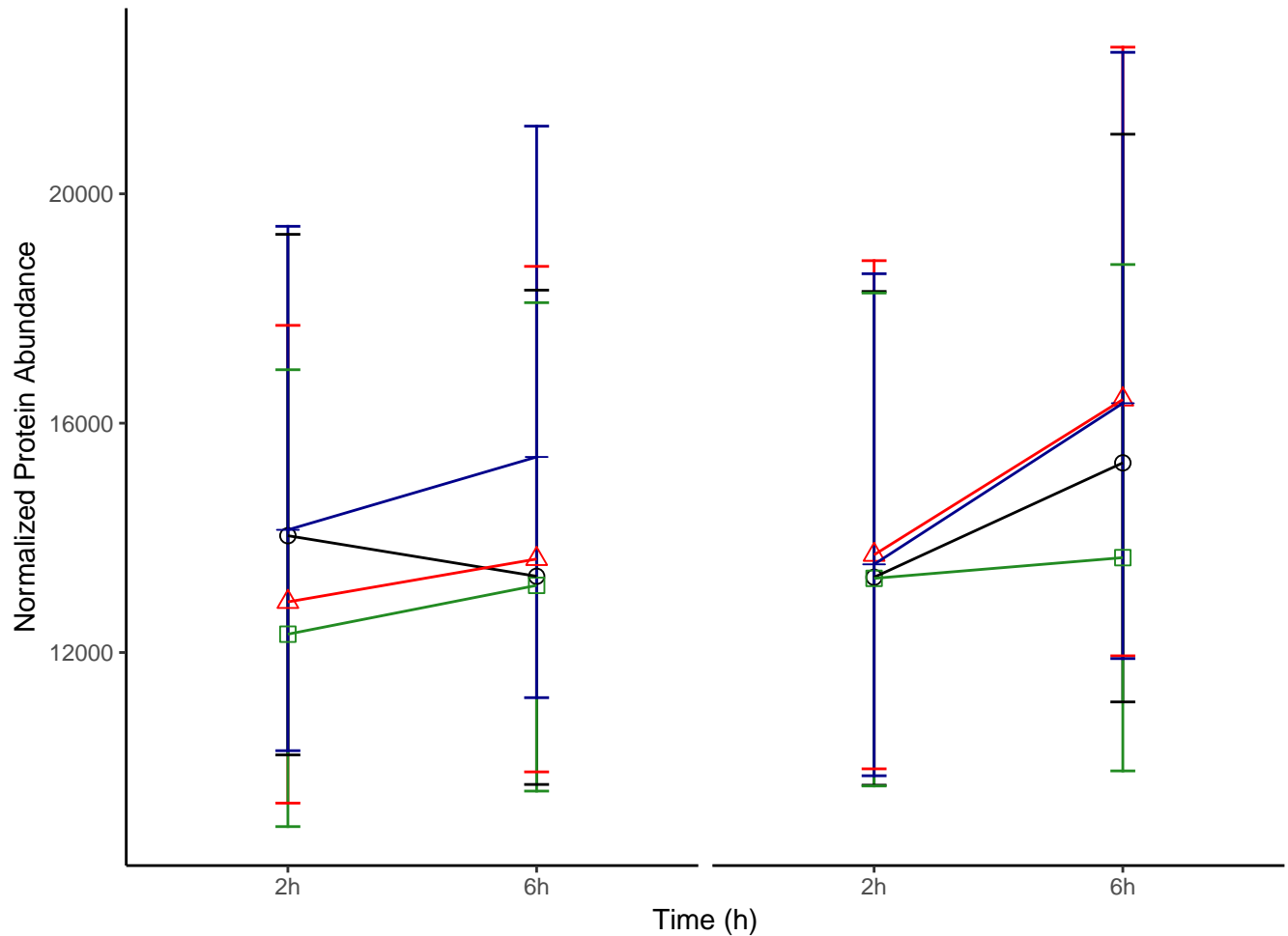


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ALD1\_STAAM

TSB

TSB-dex S-16



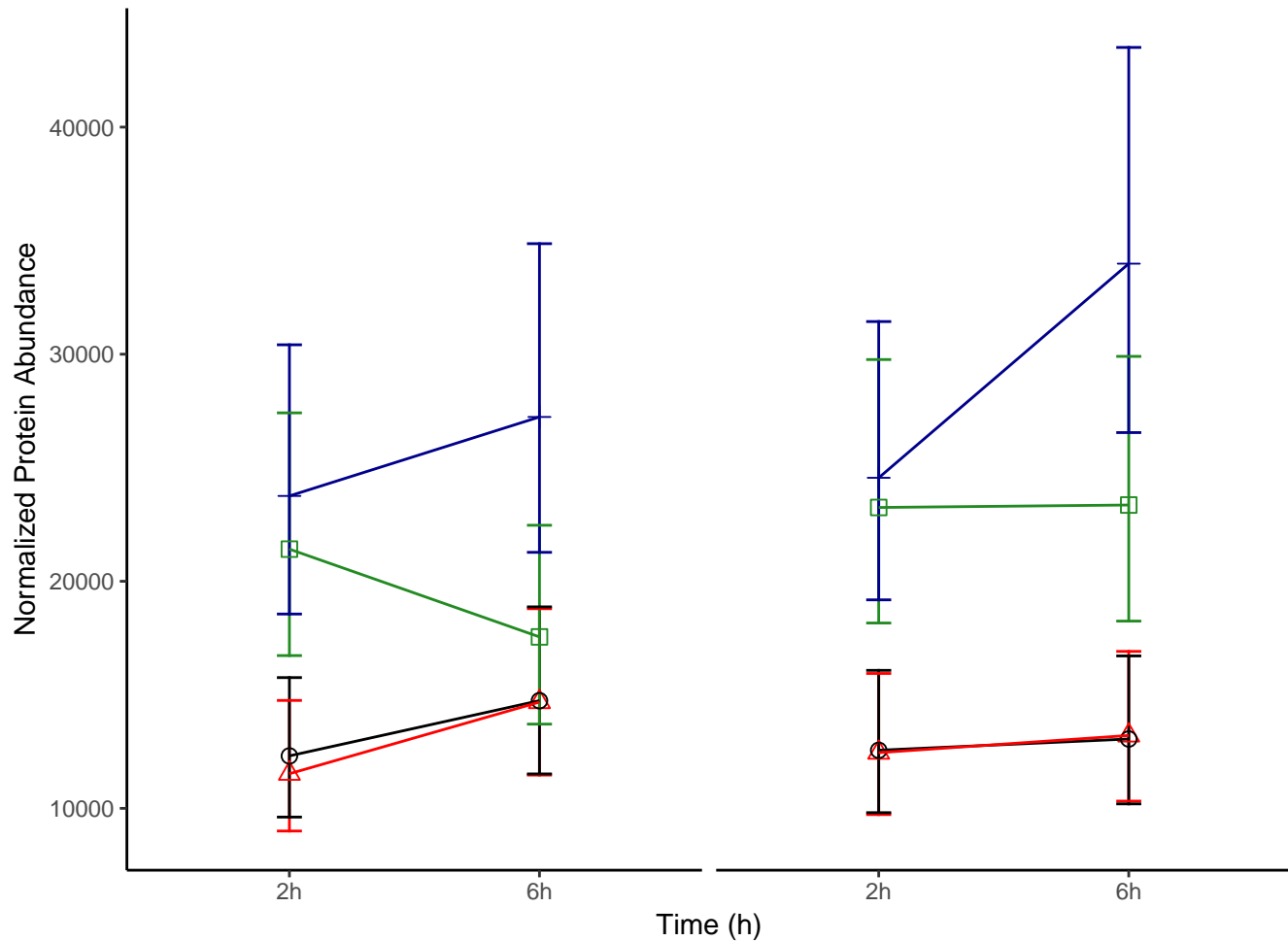
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



## ALDA\_STAAM

TSB

TSB-dex S-17

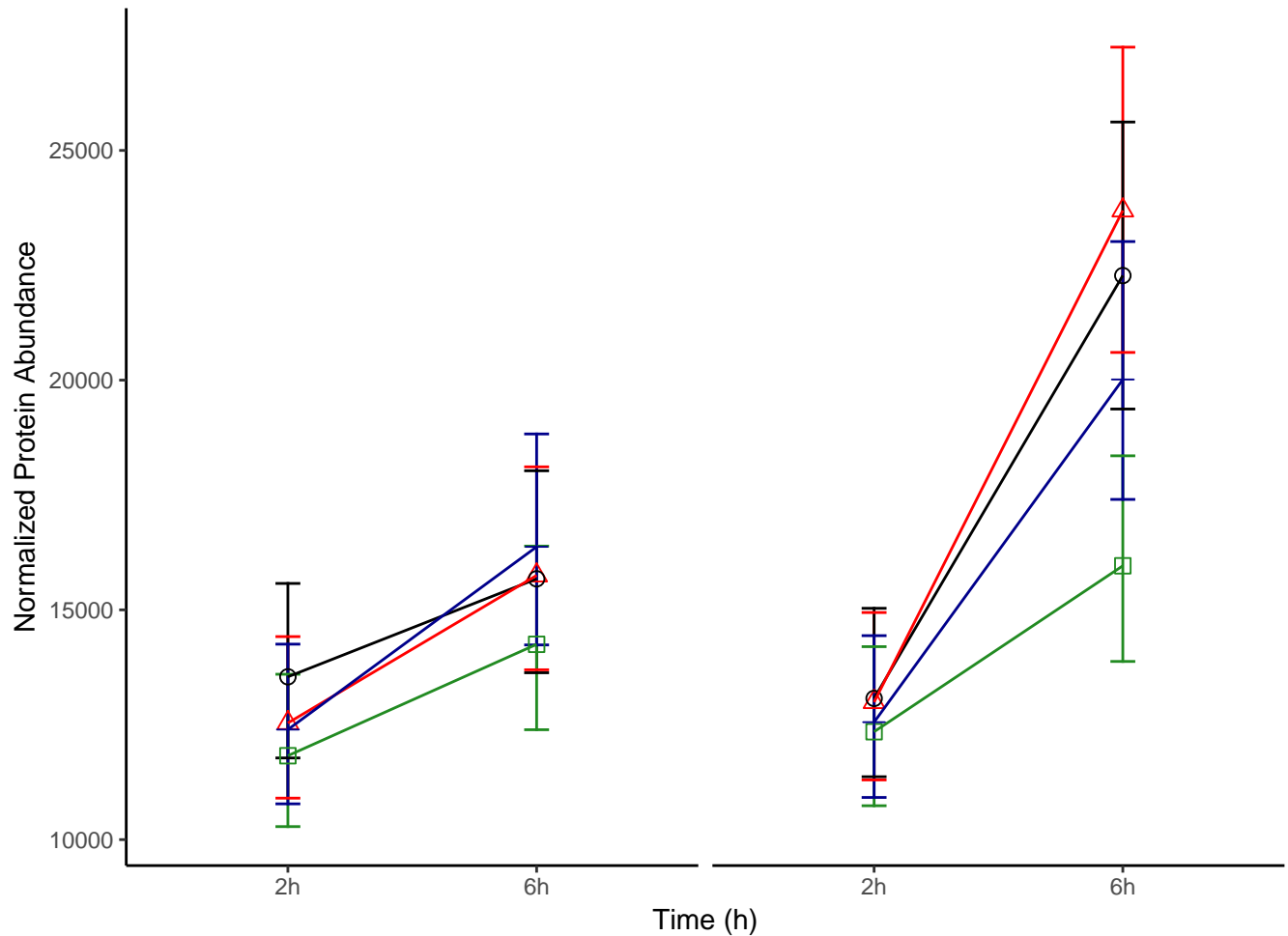


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ALF1\_STAAM

TSB

TSB-dex S-18

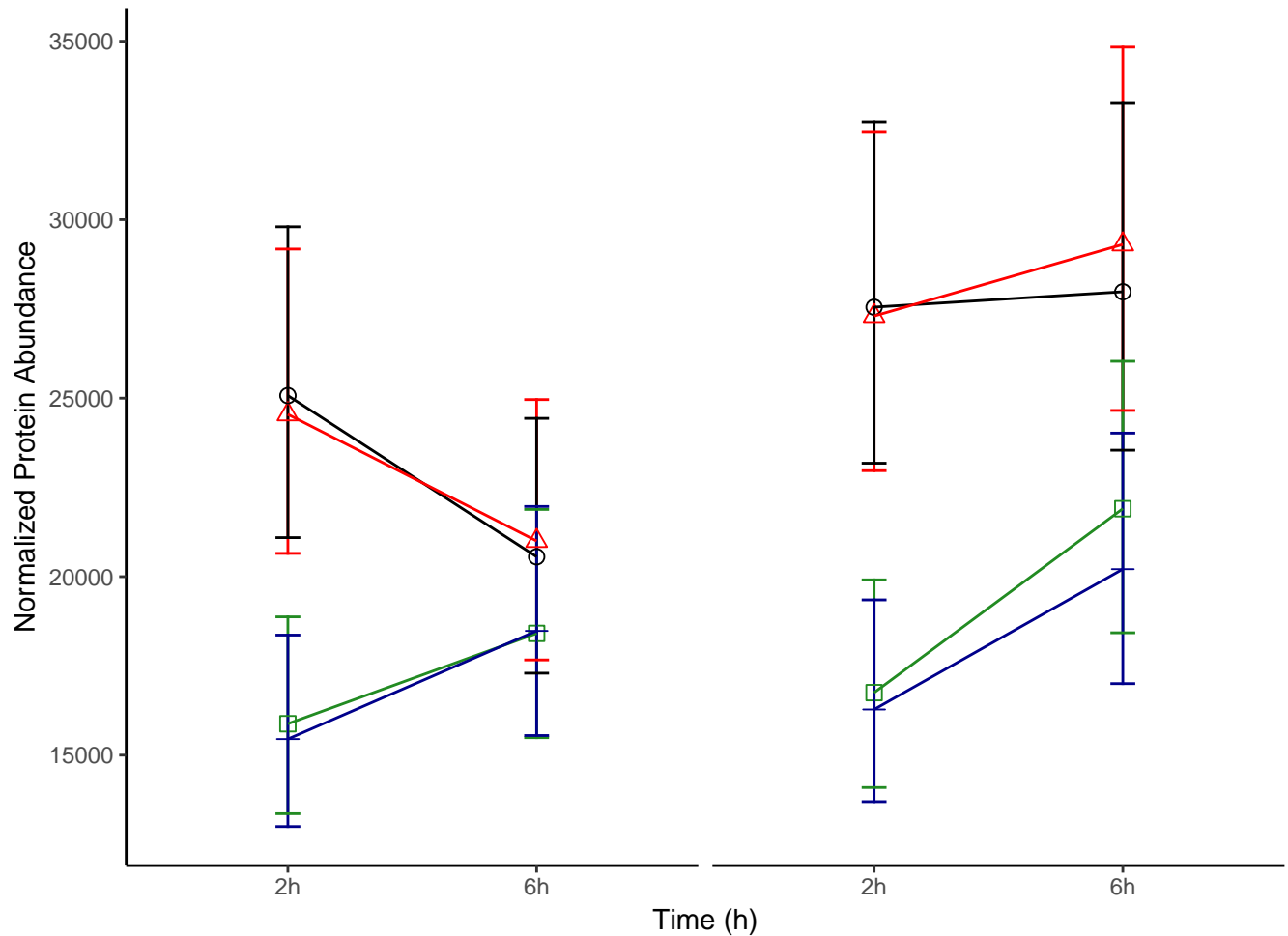


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ALF2\_STAAM

TSB

TSB-dex S-19

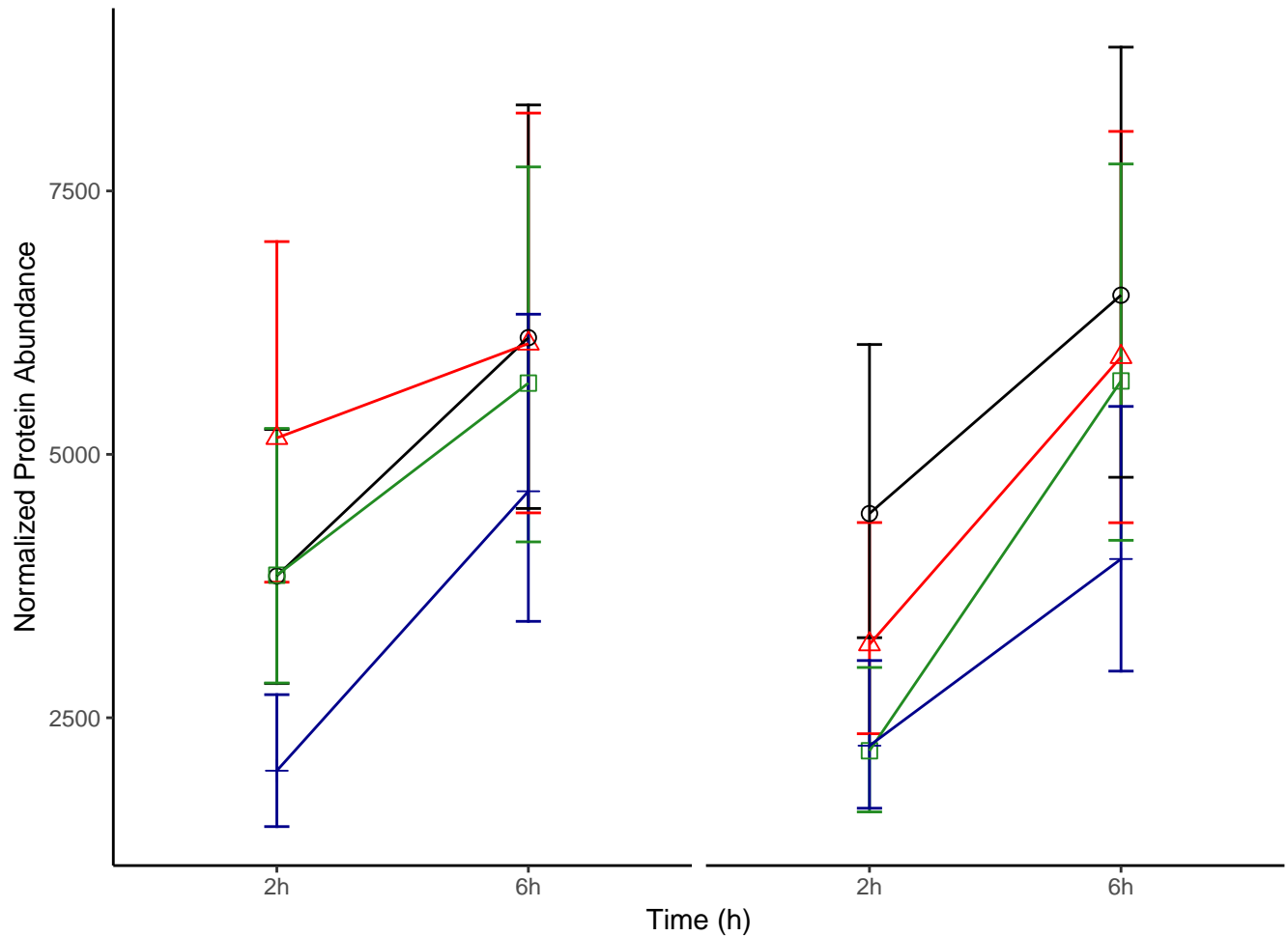


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# APT\_STAAM

TSB

TSB-dex S-20

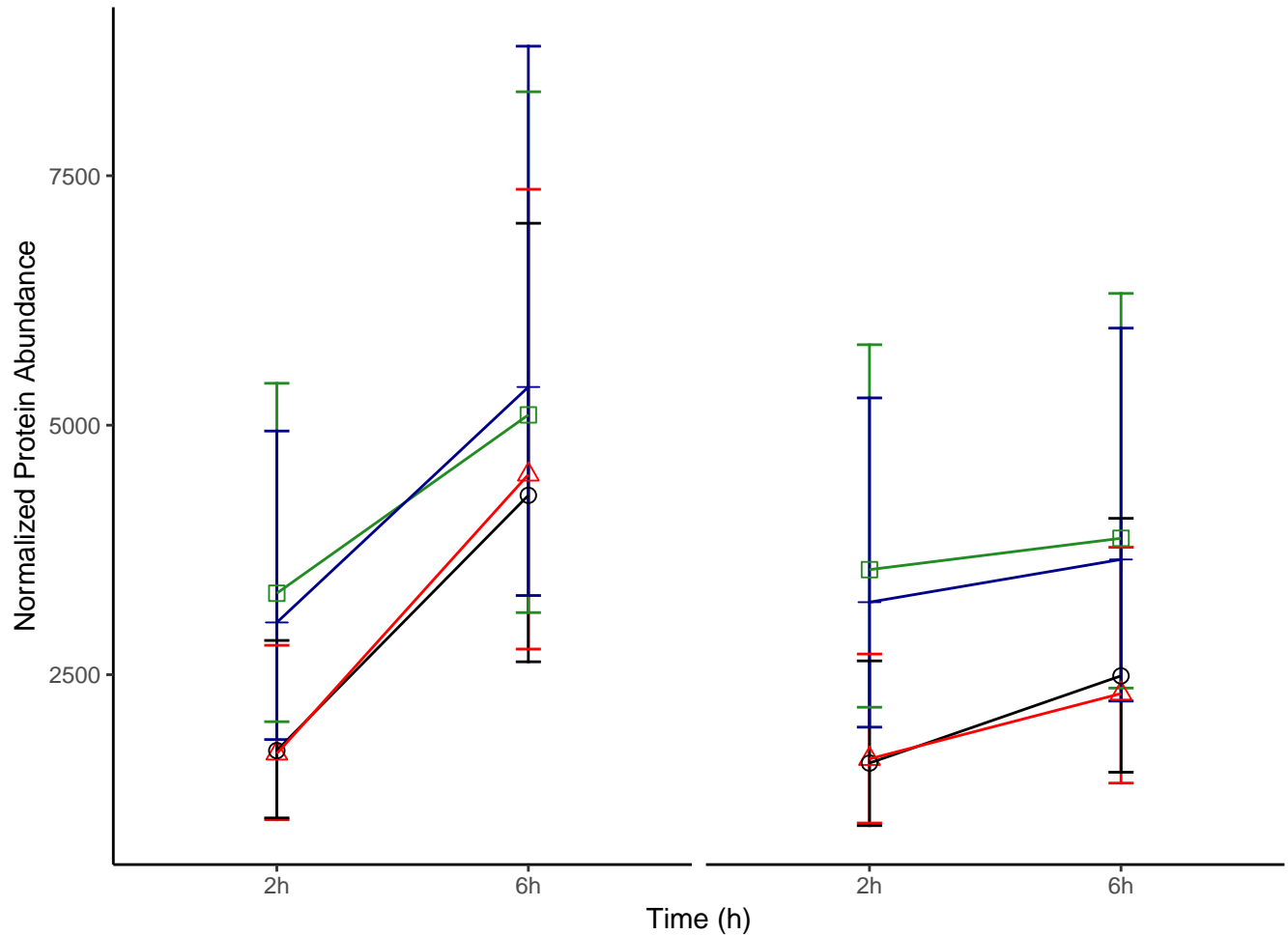


- SA564
  - △ SA564- $\Delta hptRS$
  - SA564- $\Delta ccpA$
  - +
- SA564- $\Delta hptRS/ccpA$

# ARCA\_STAAM

TSB

TSB-dex S-21

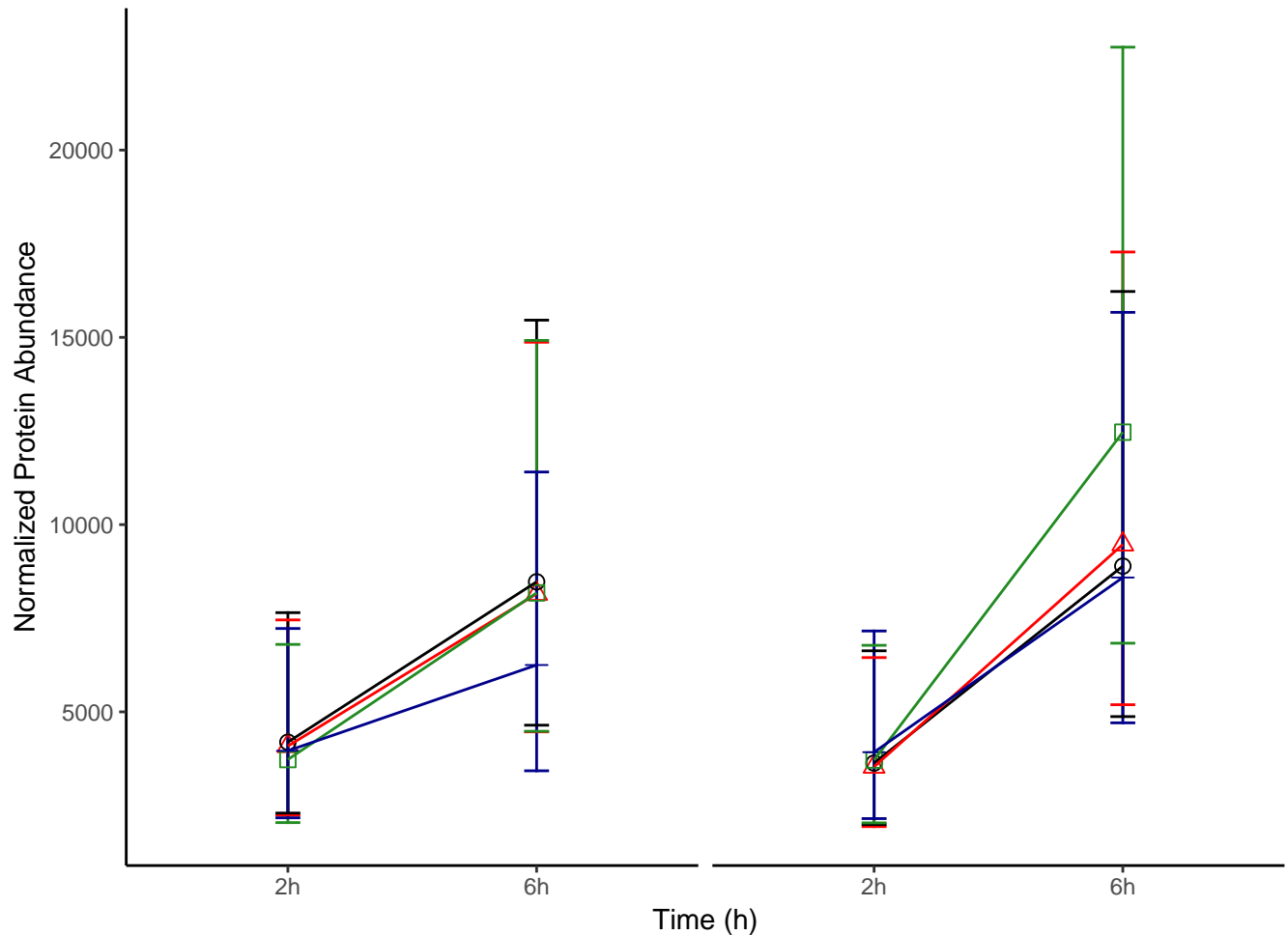


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ARCC1\_STAAM

TSB

TSB-dex S-22

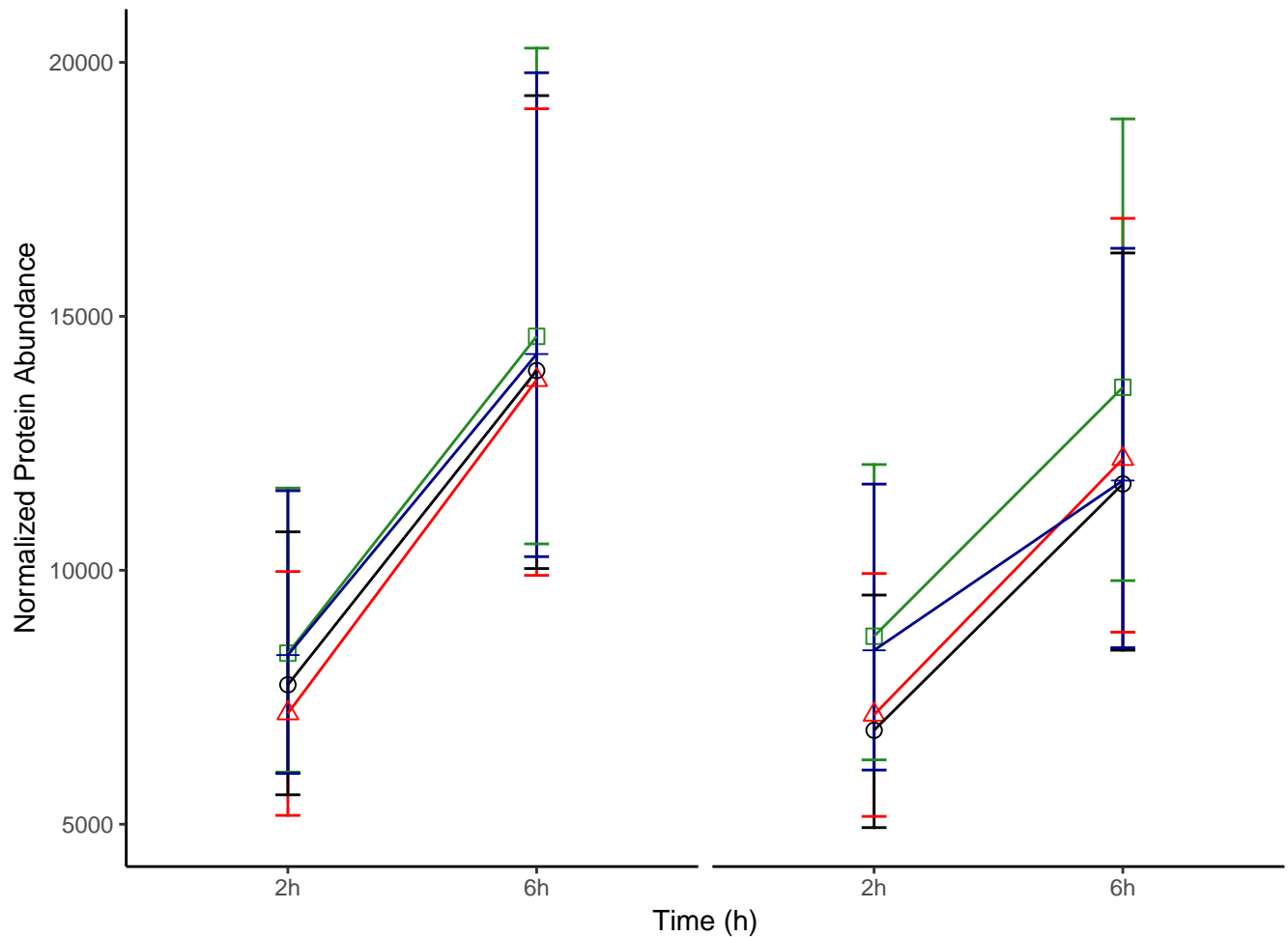


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARGI\_STAAM

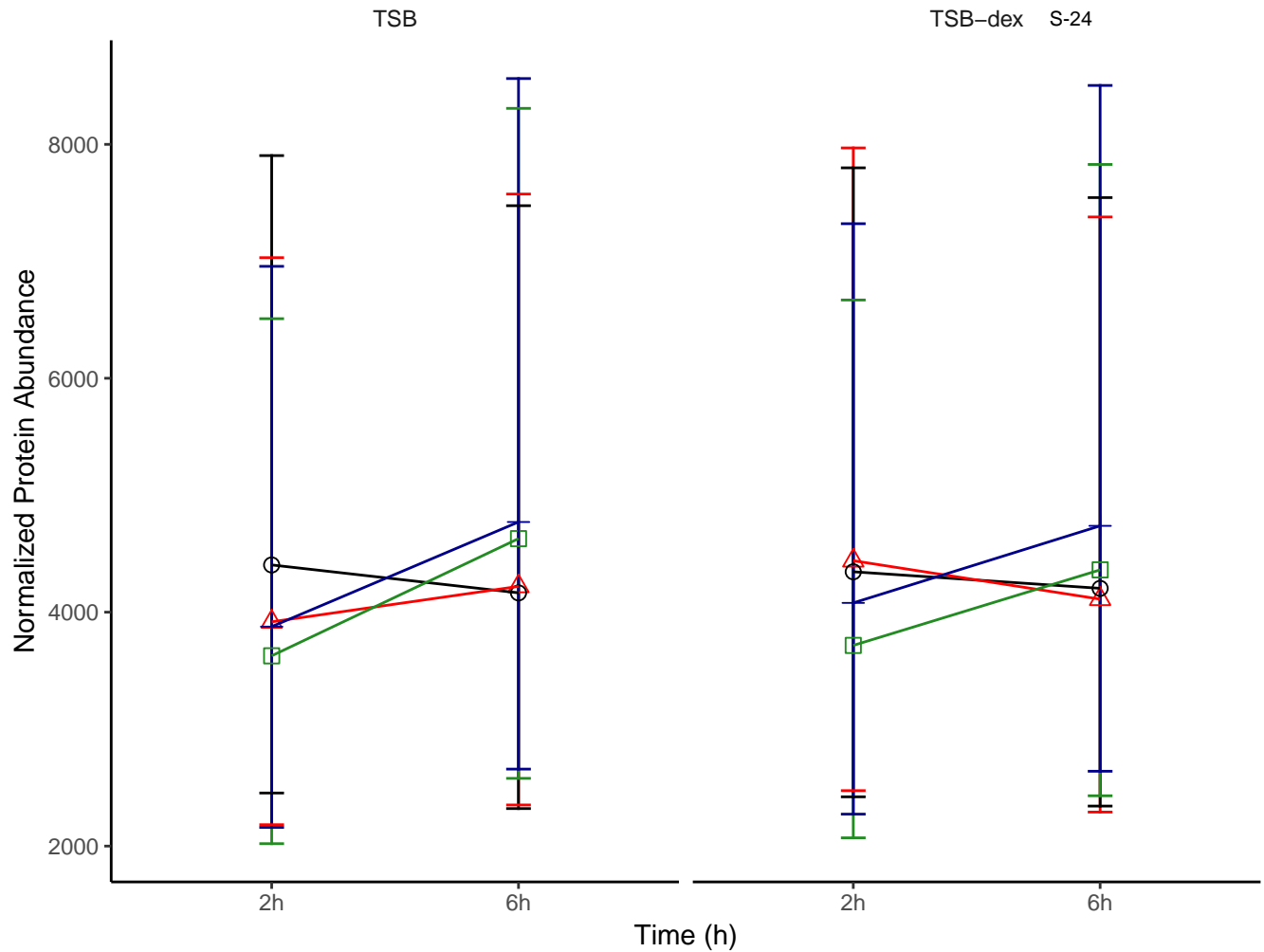
TSB

TSB-dex S-23



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARGR\_STAAM



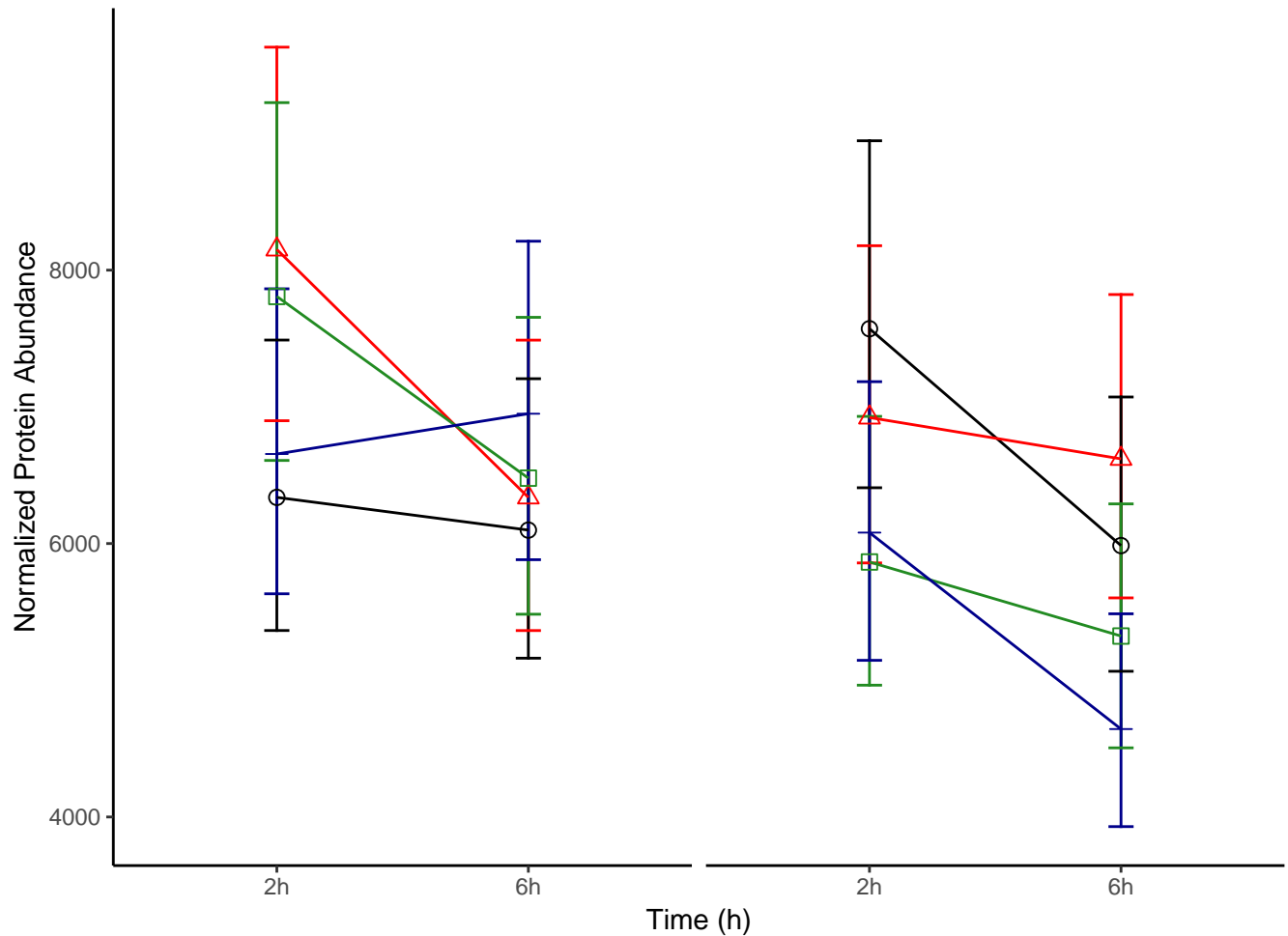
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# ARLR\_STAAM

TSB

TSB-dex S-25

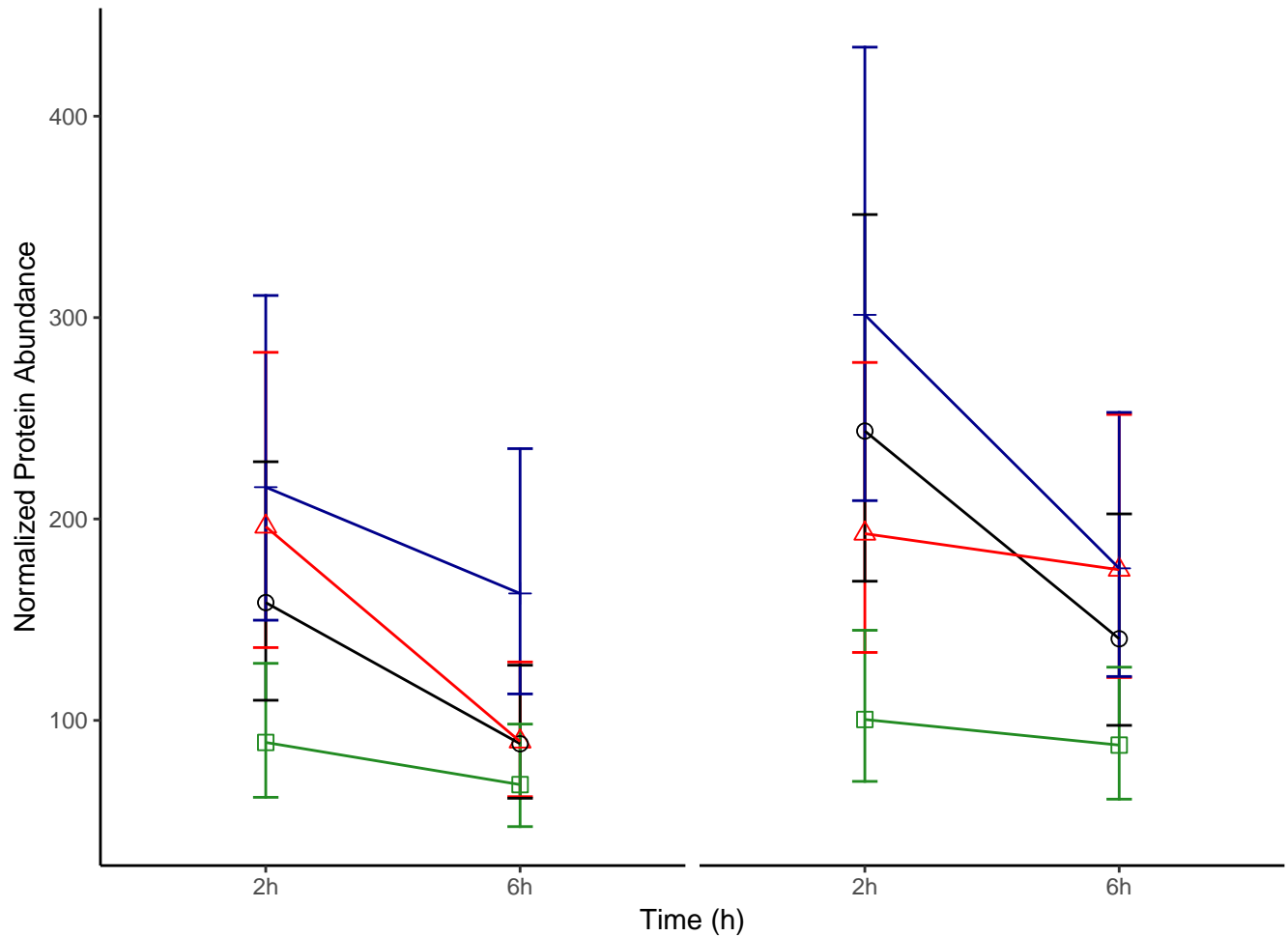


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ARLY\_STAAM

TSB

TSB-dex S-26

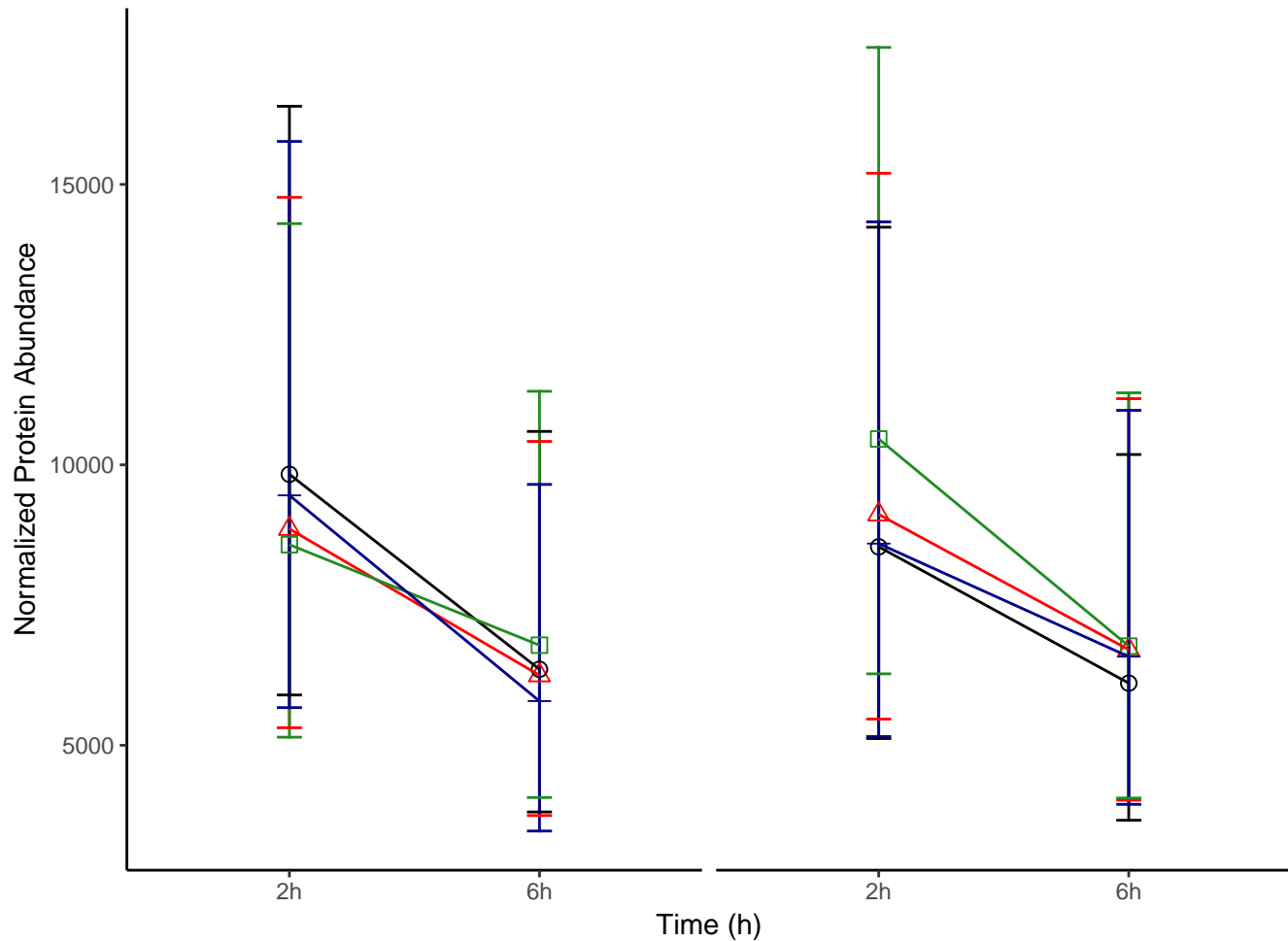


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ARO<sub>A</sub>\_STAAM

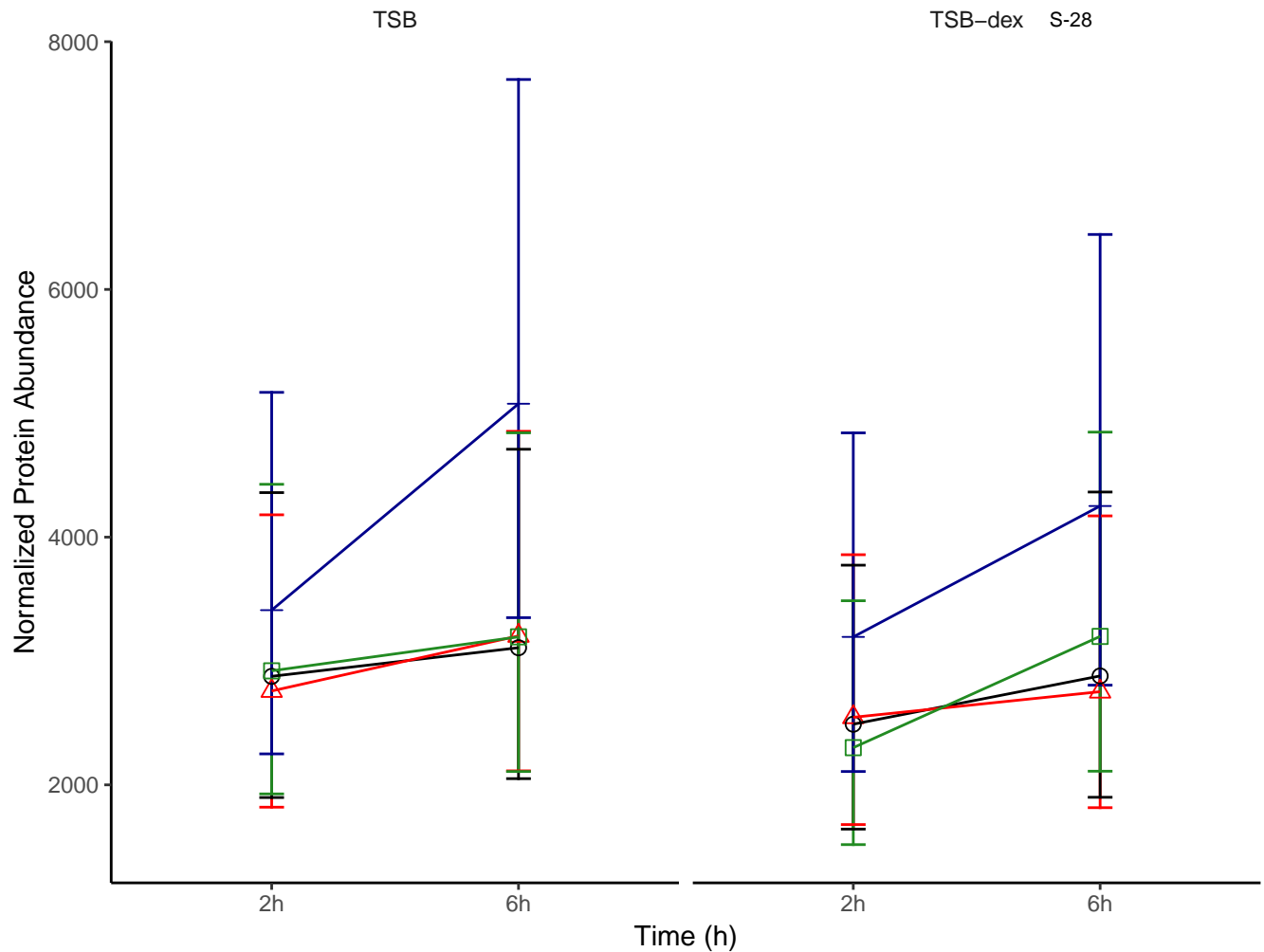
TSB

TSB-dex S-27



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AROB\_STAAM

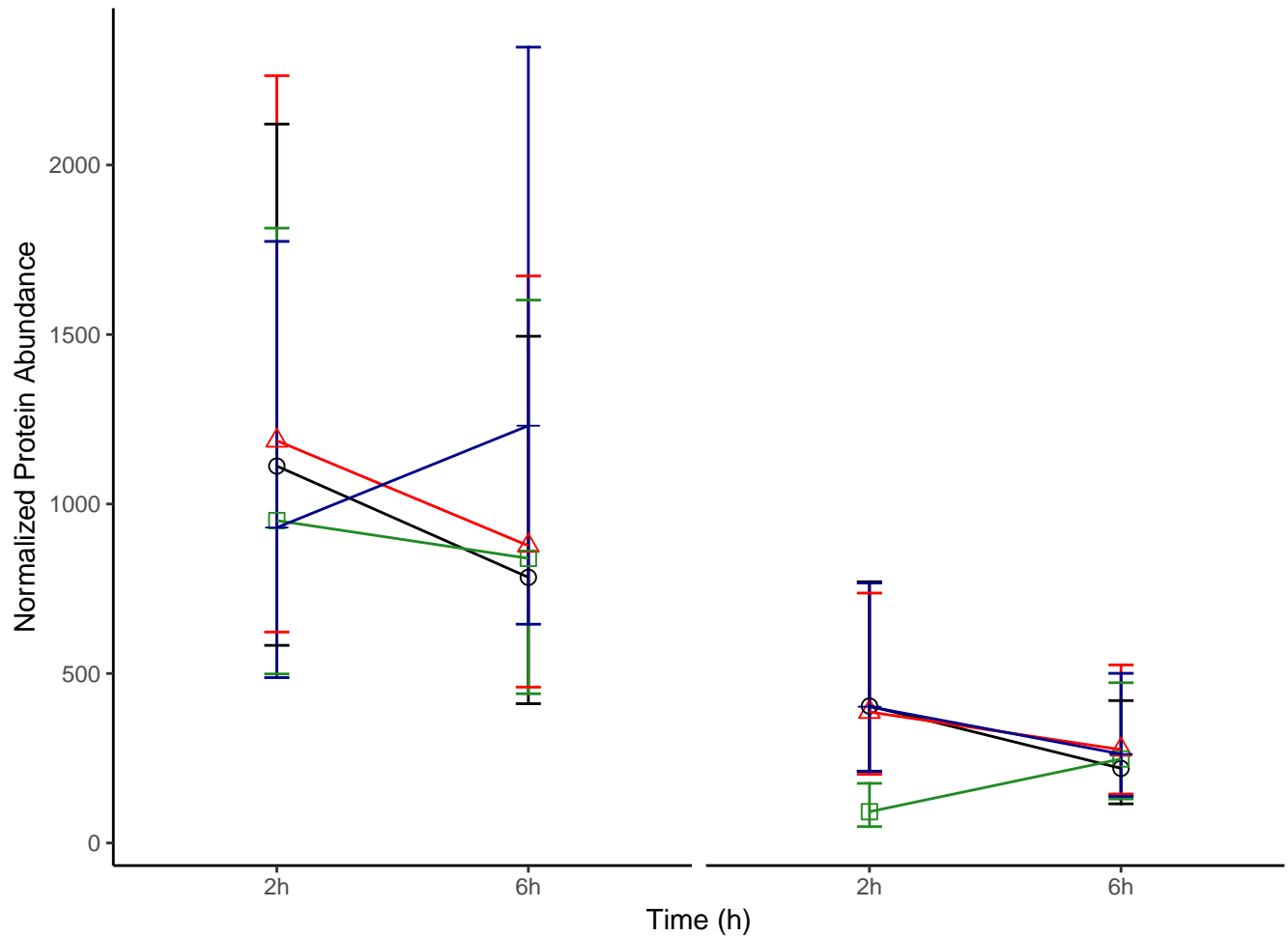


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# AROE\_STAAM

TSB

TSB-dex S-29

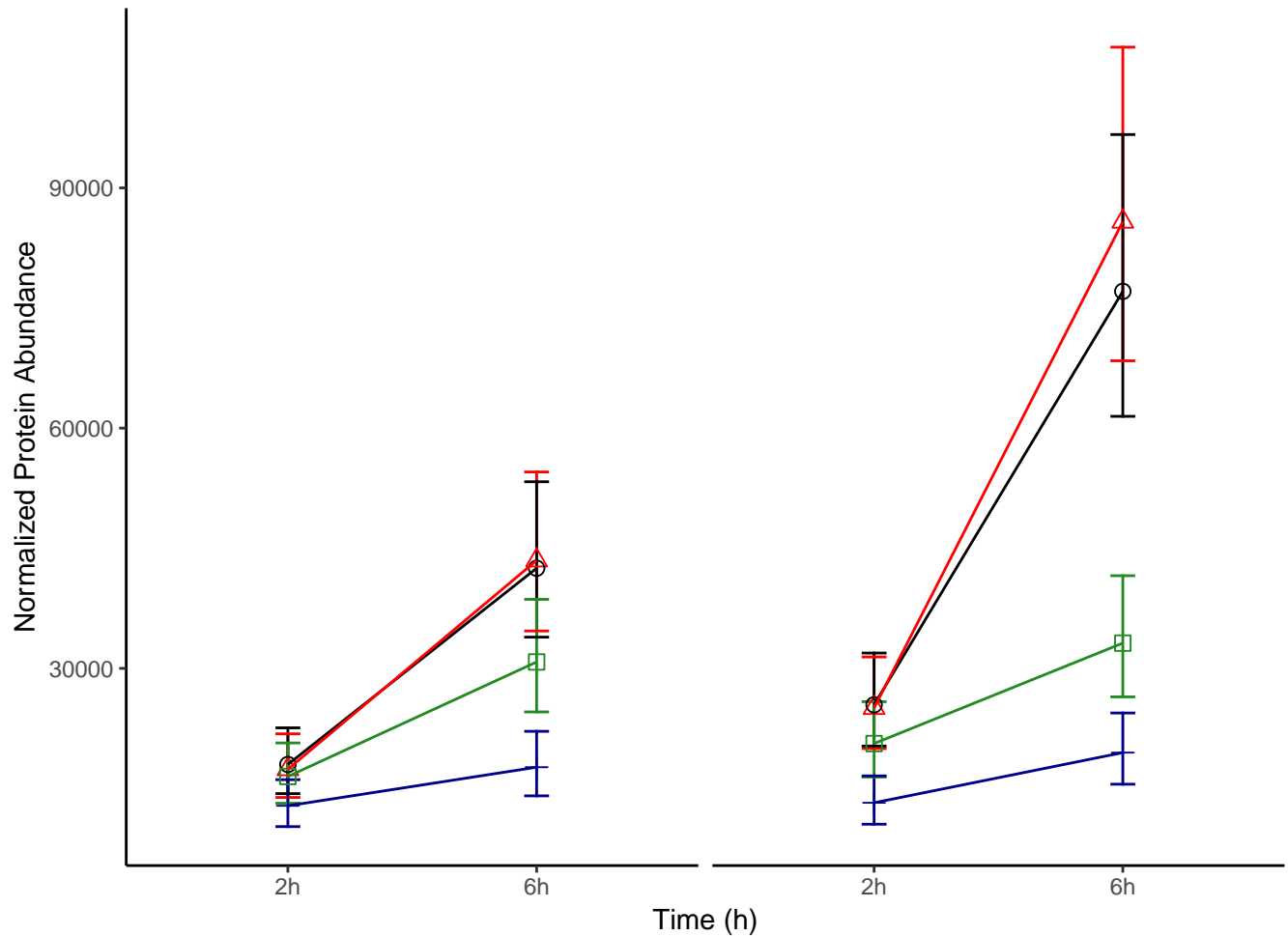


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ASP23\_STAAM

TSB

TSB-dex S-30

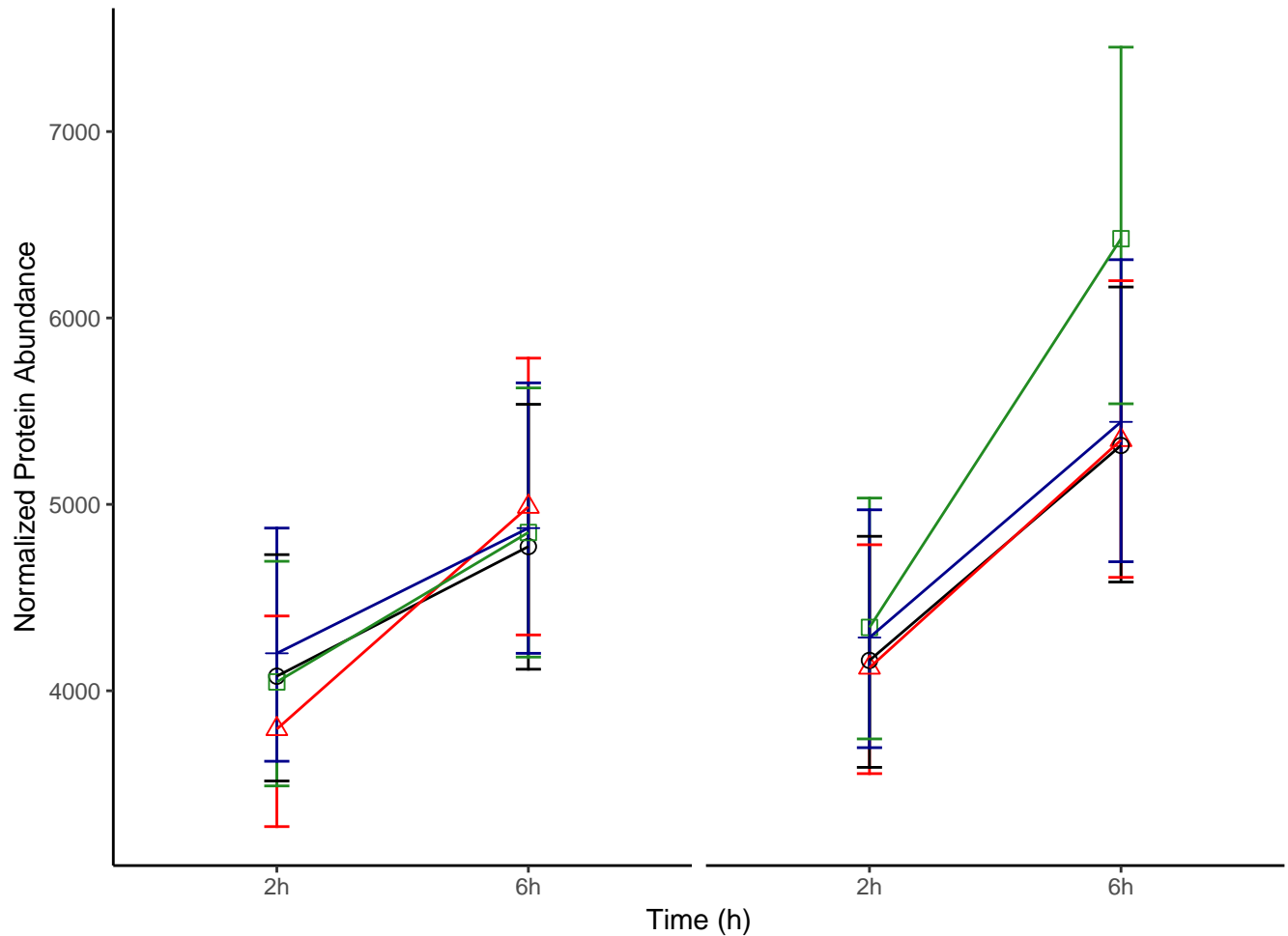


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATL\_STAAM

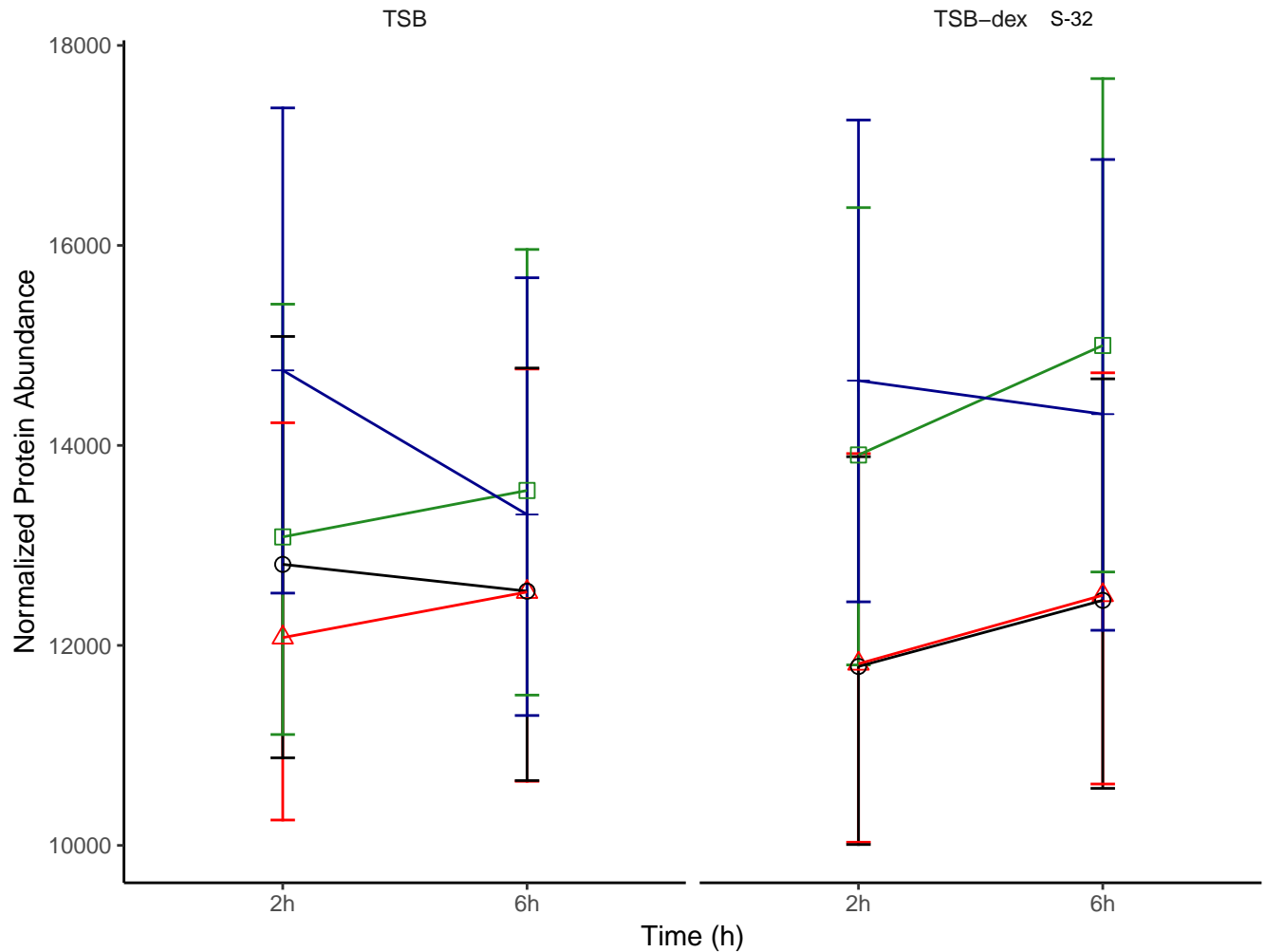
TSB

TSB-dex S-31



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPA\_STAAM



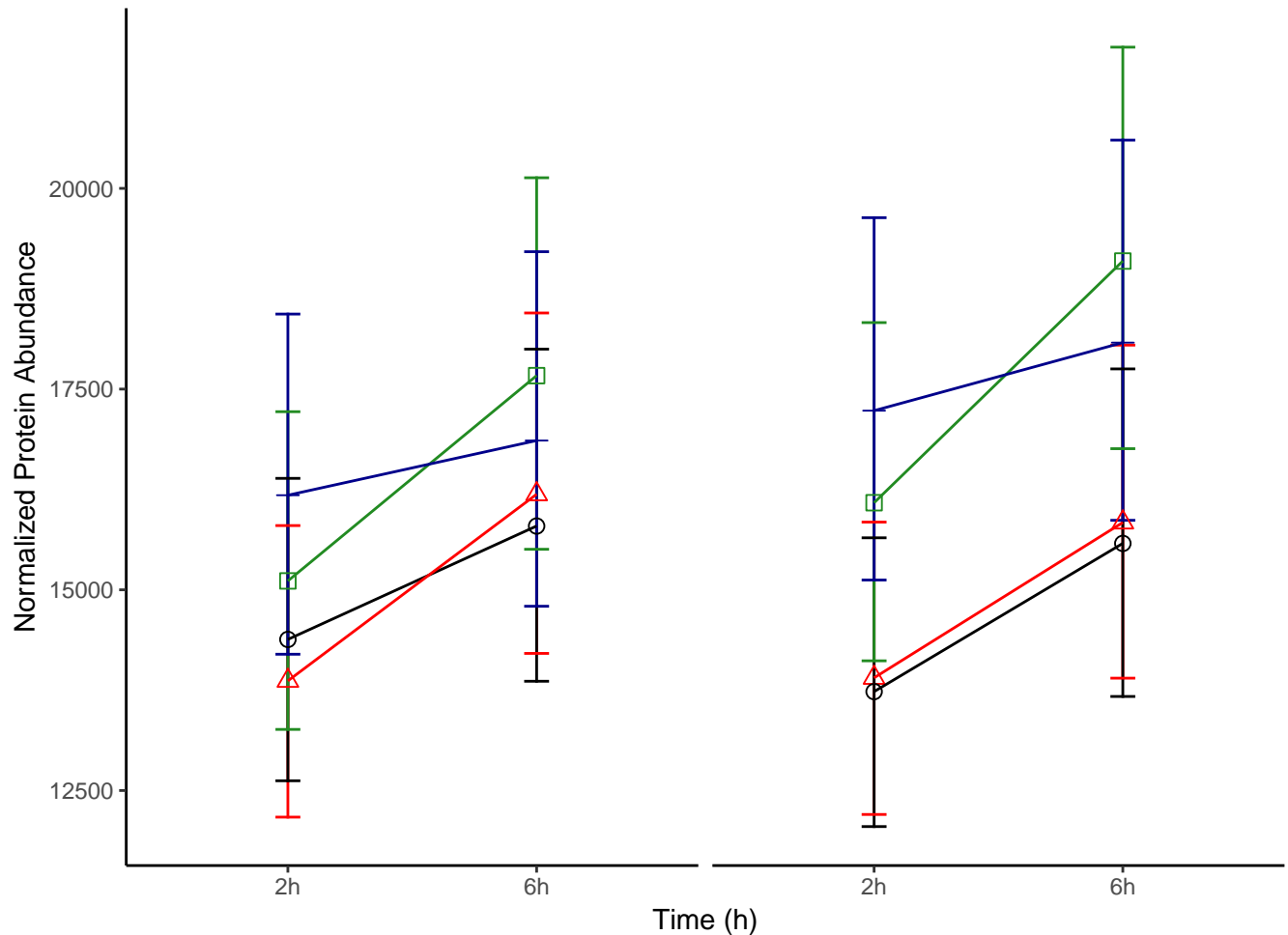
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# ATPB\_STAAM

TSB

TSB-dex S-33

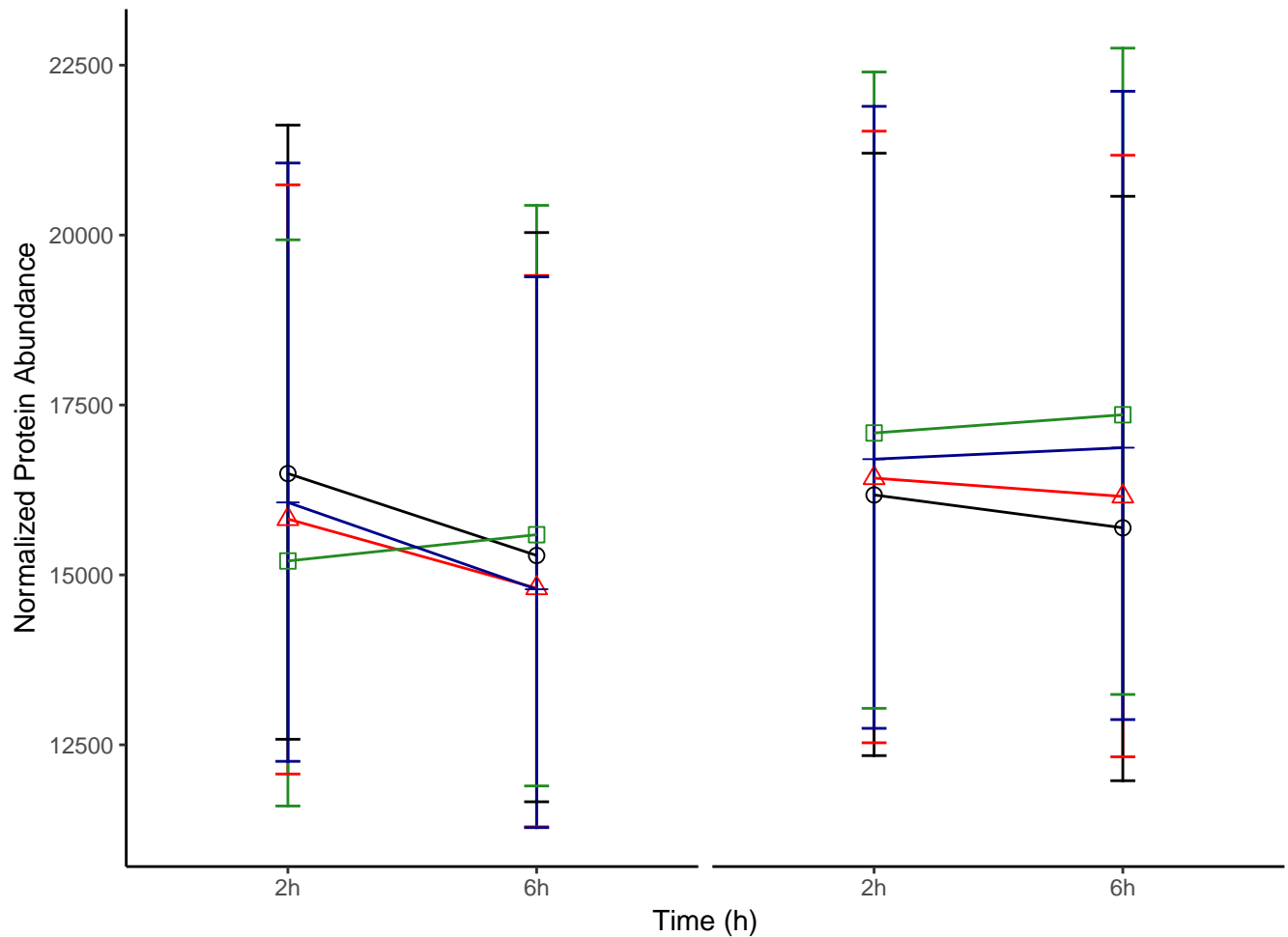


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPD\_STAAM

TSB

TSB-dex S-34

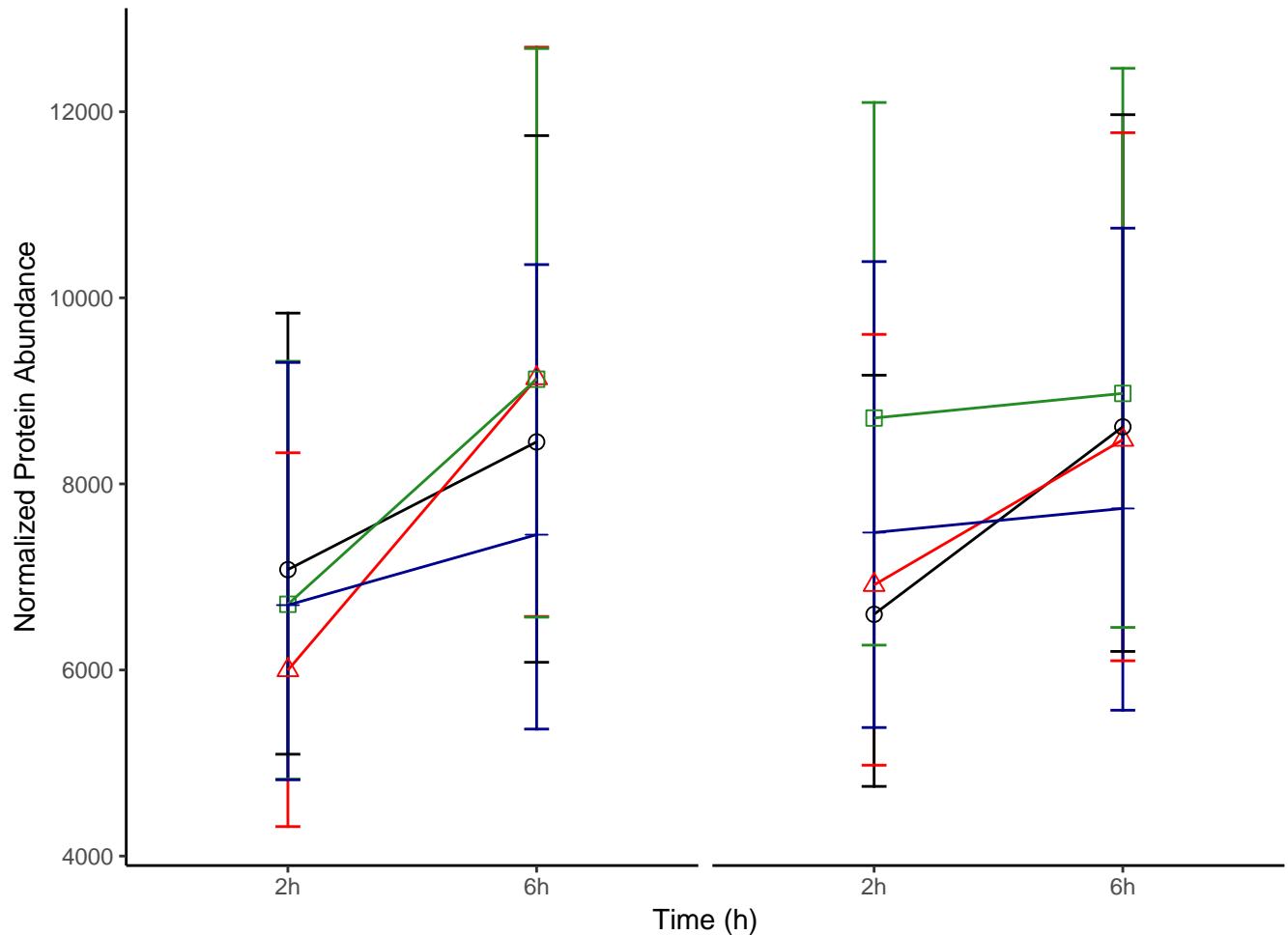


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATPE\_STAAM

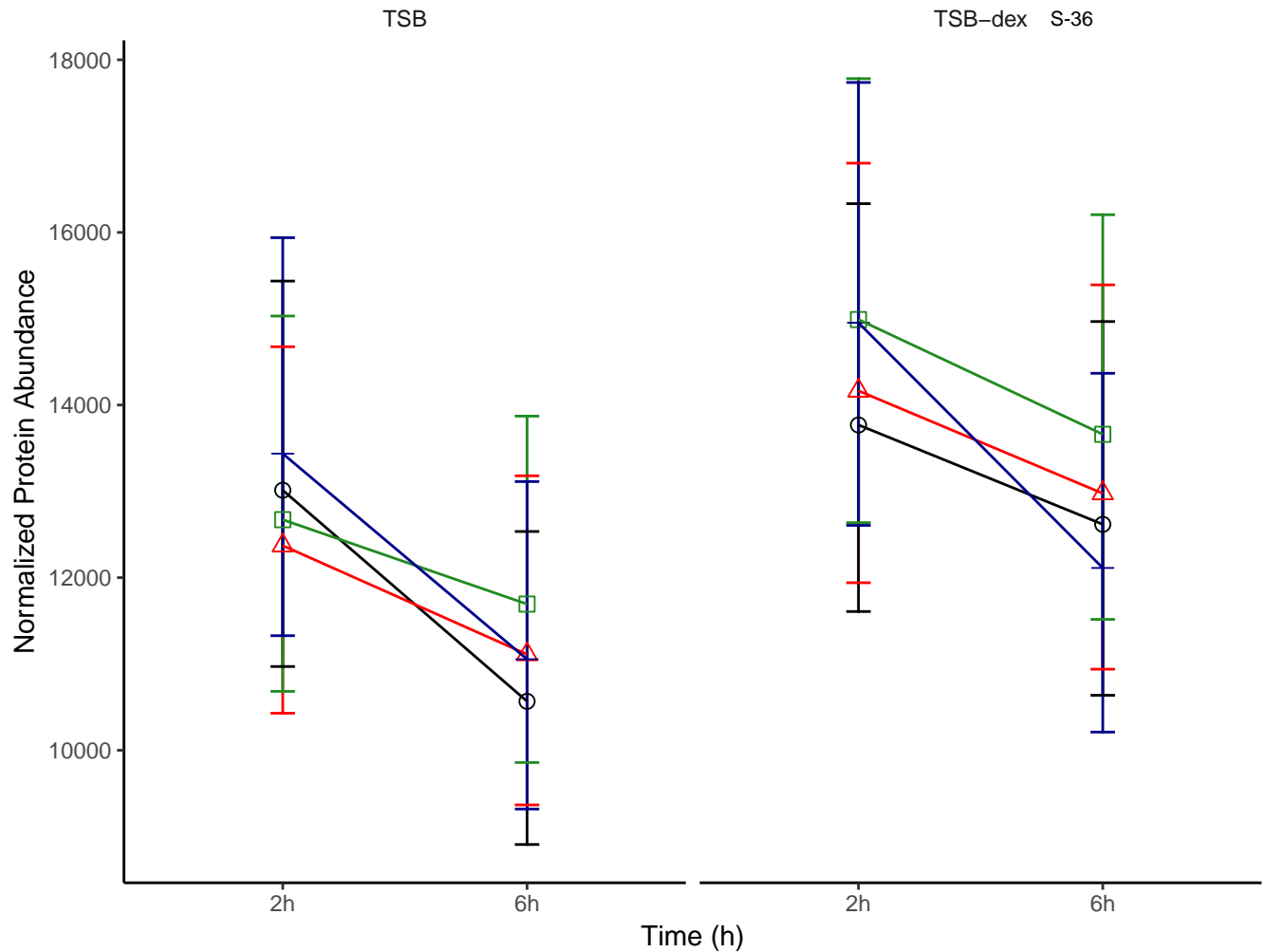
TSB

TSB-dex S-35



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPF\_STAAM

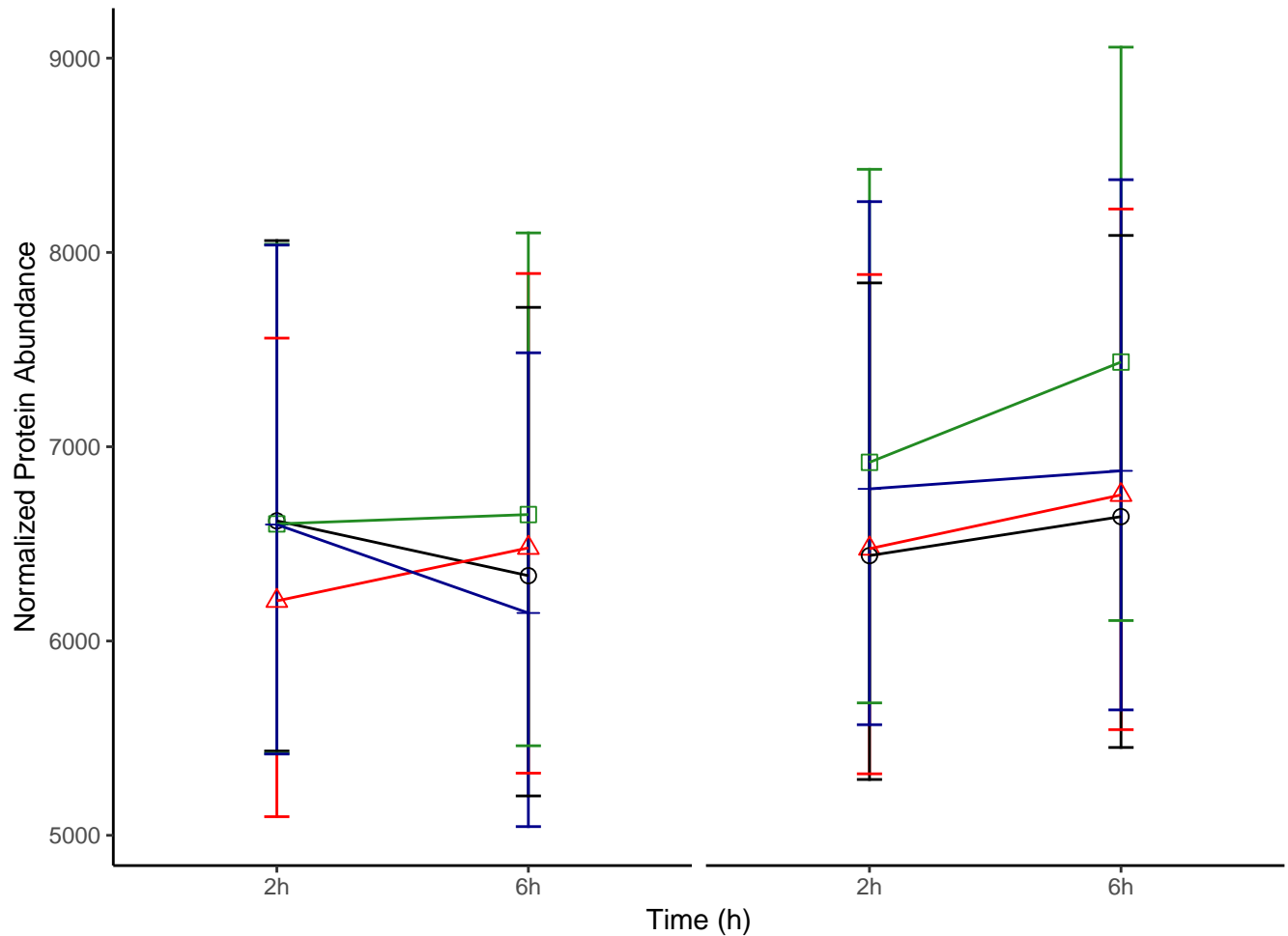


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATPG\_STAAM

TSB

TSB-dex S-37

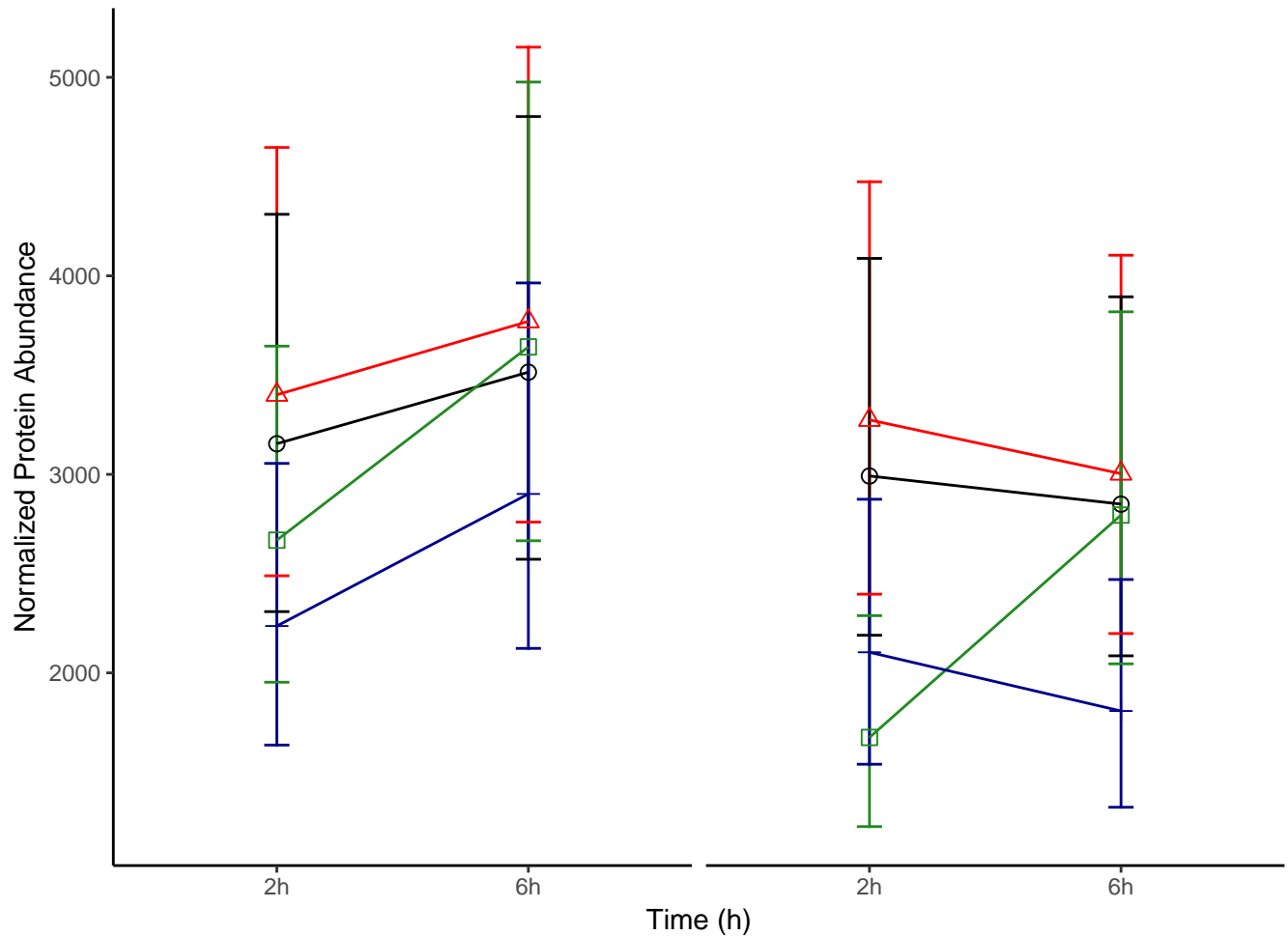


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AZO1\_STAAM

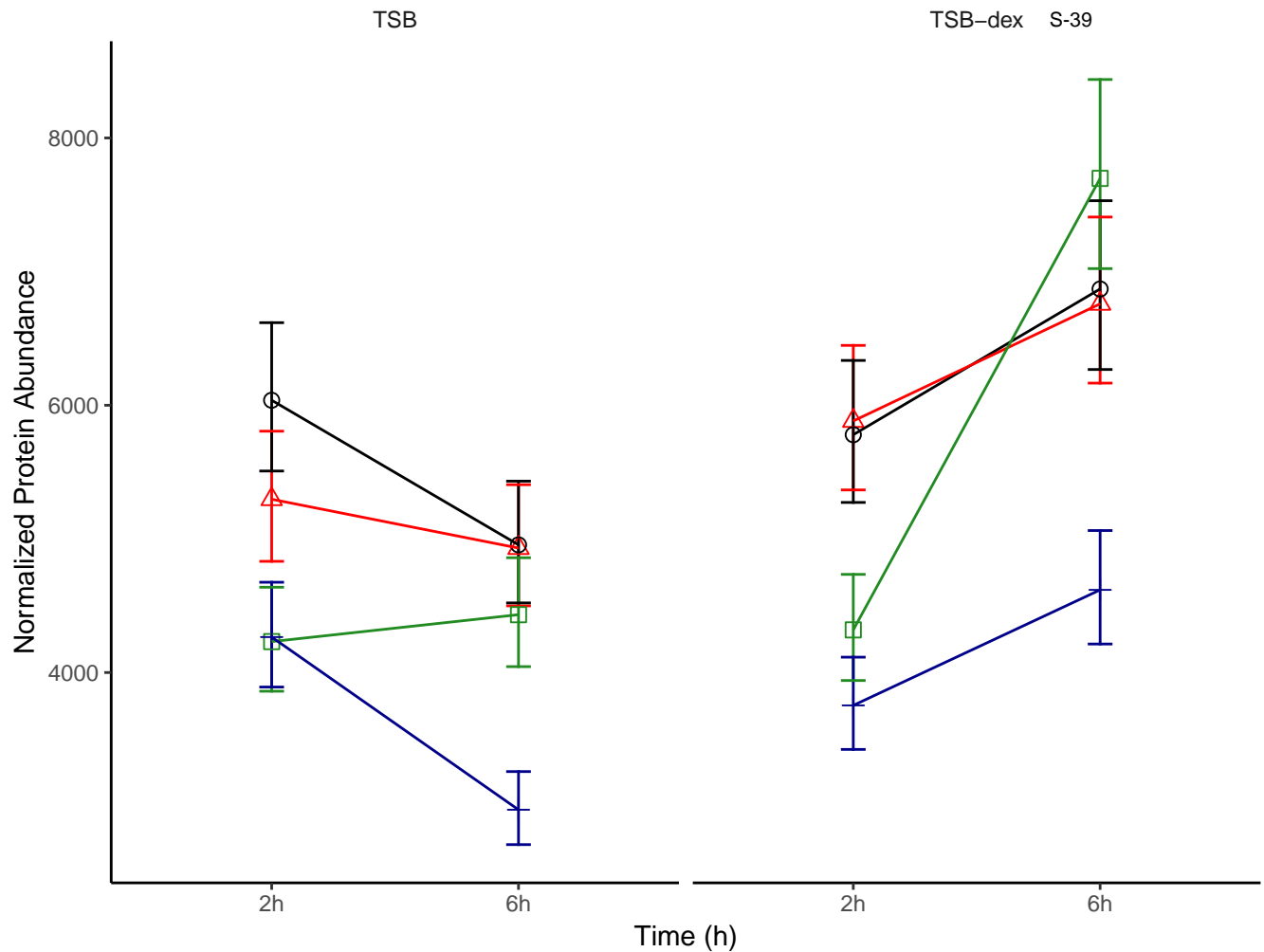
TSB

TSB-dex S-38



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# AZOR\_STAAM

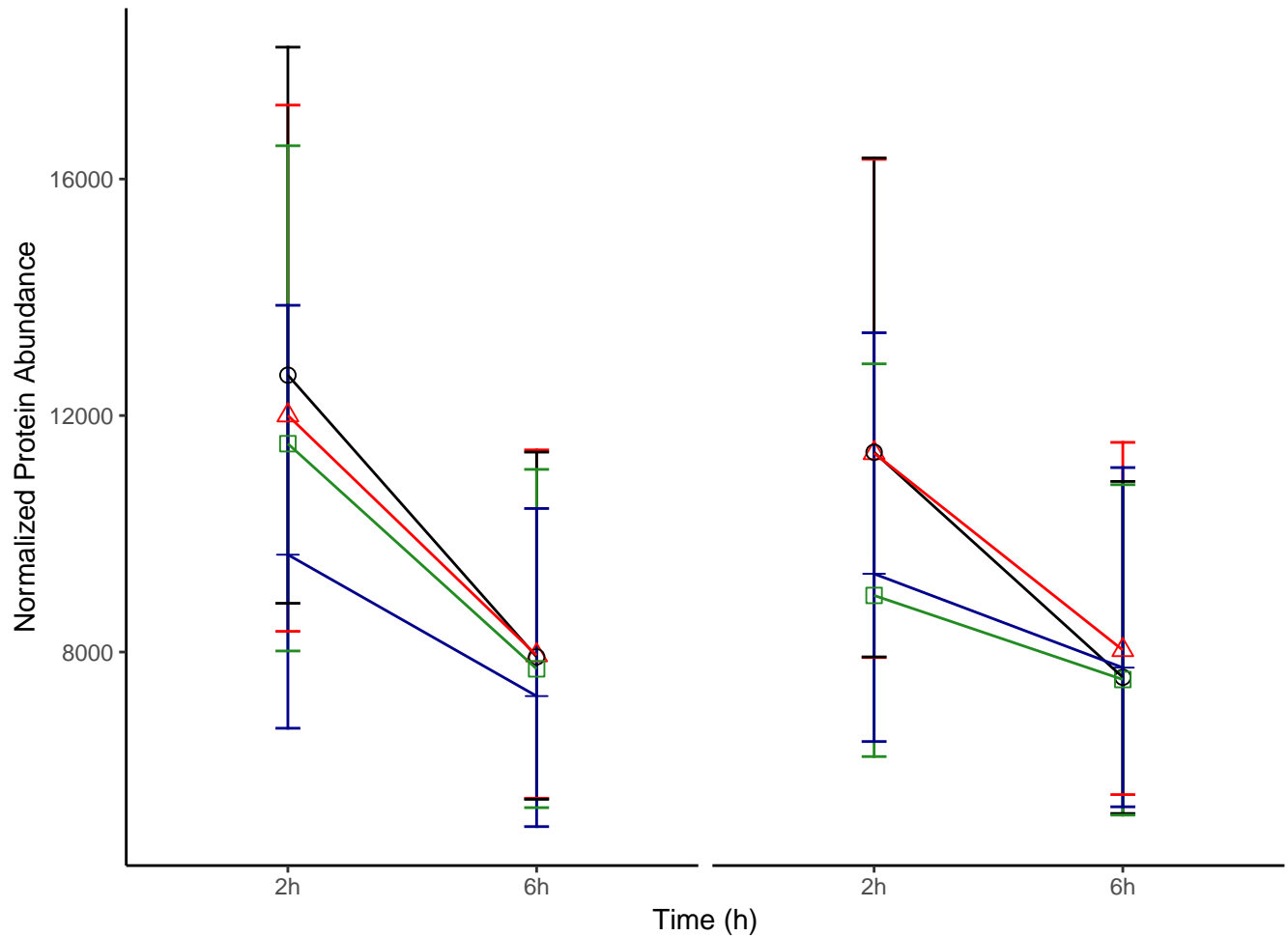


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# BSAA\_STAAM

TSB

TSB-dex S-40



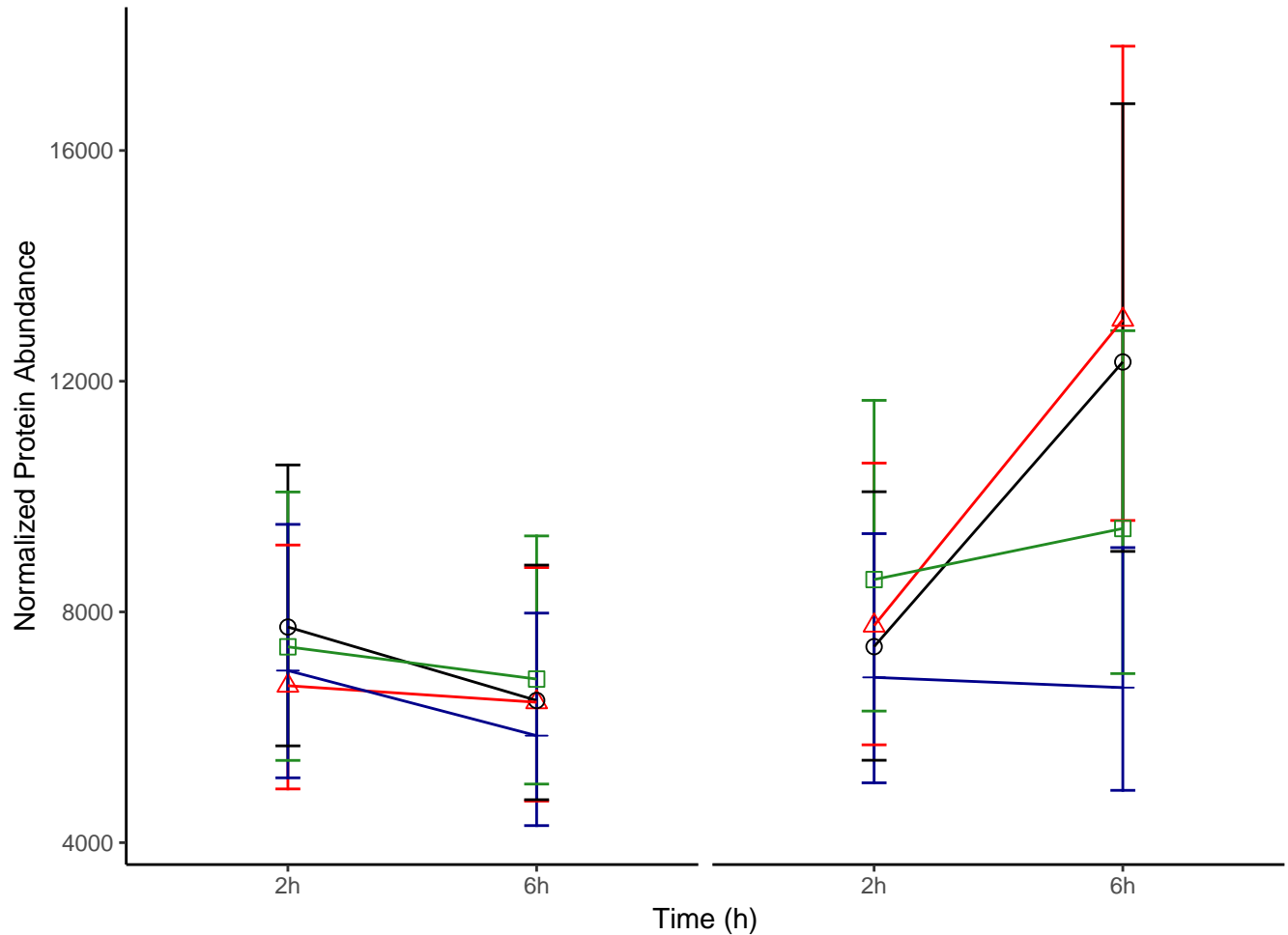
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# BUTA\_STAAM

TSB

TSB-dex S-41

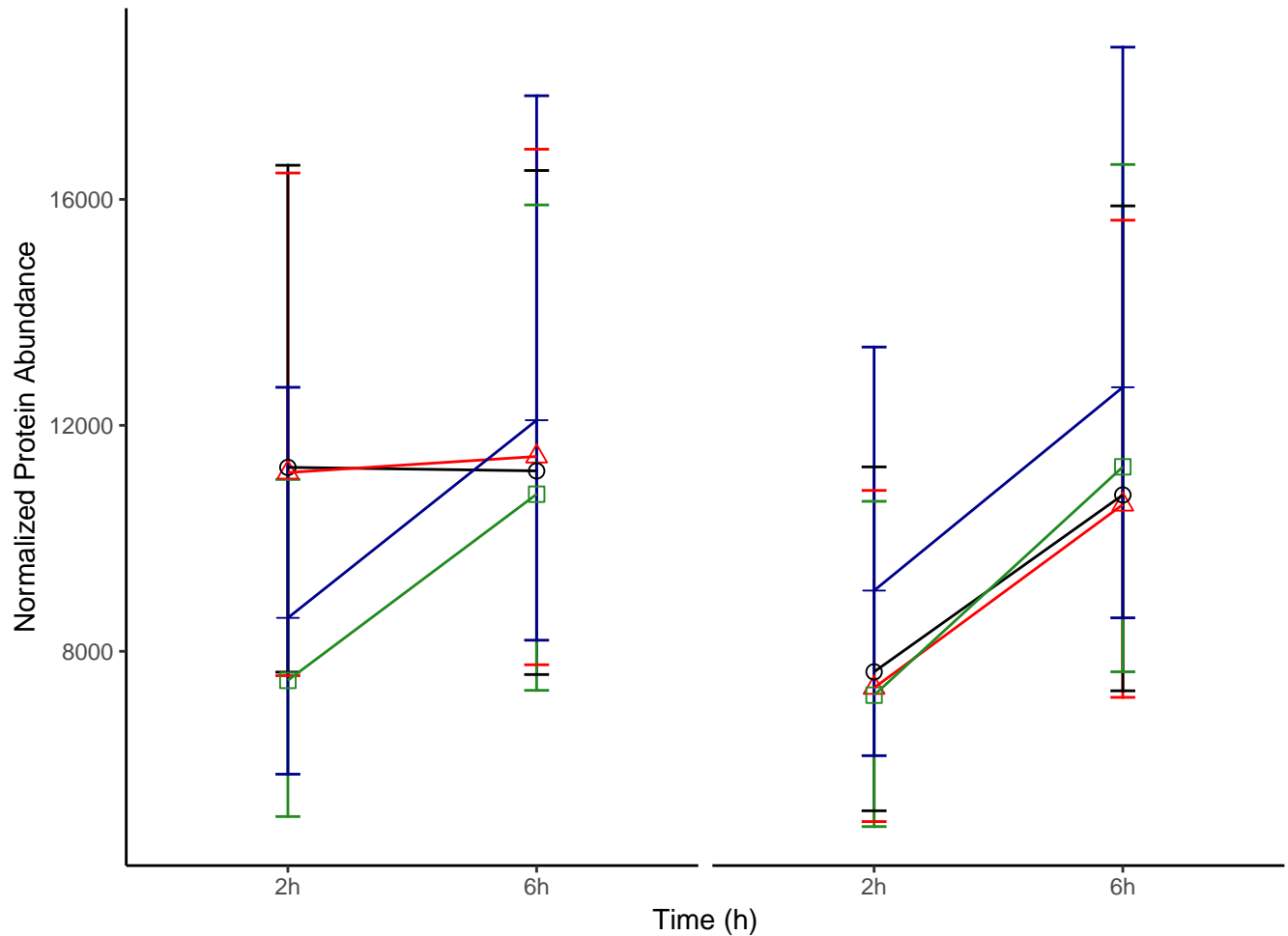


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CARA\_STAAM

TSB

TSB-dex S-42

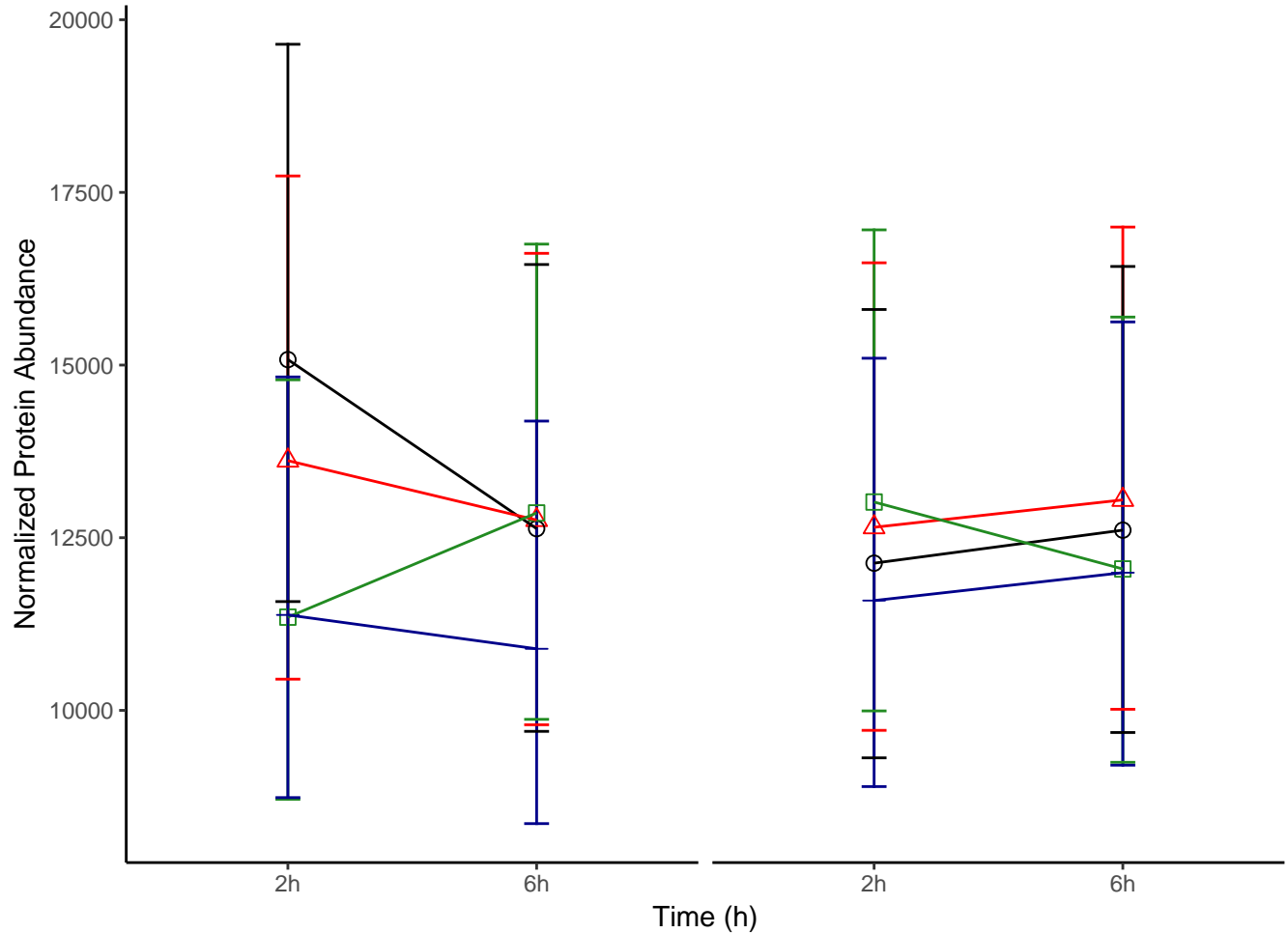


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CARB\_STAAM

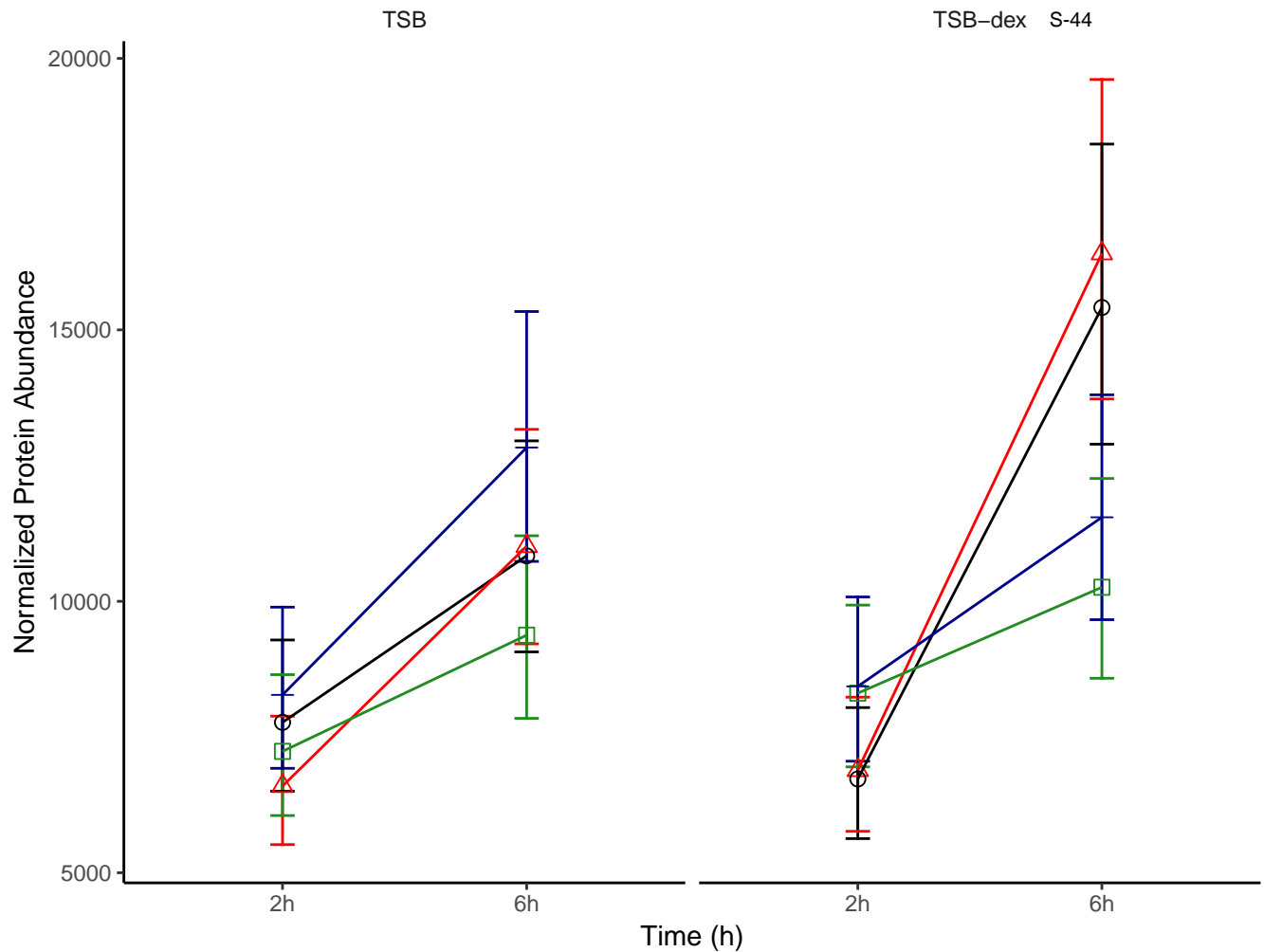
TSB

TSB-dex S-43



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# CATA\_STAAM

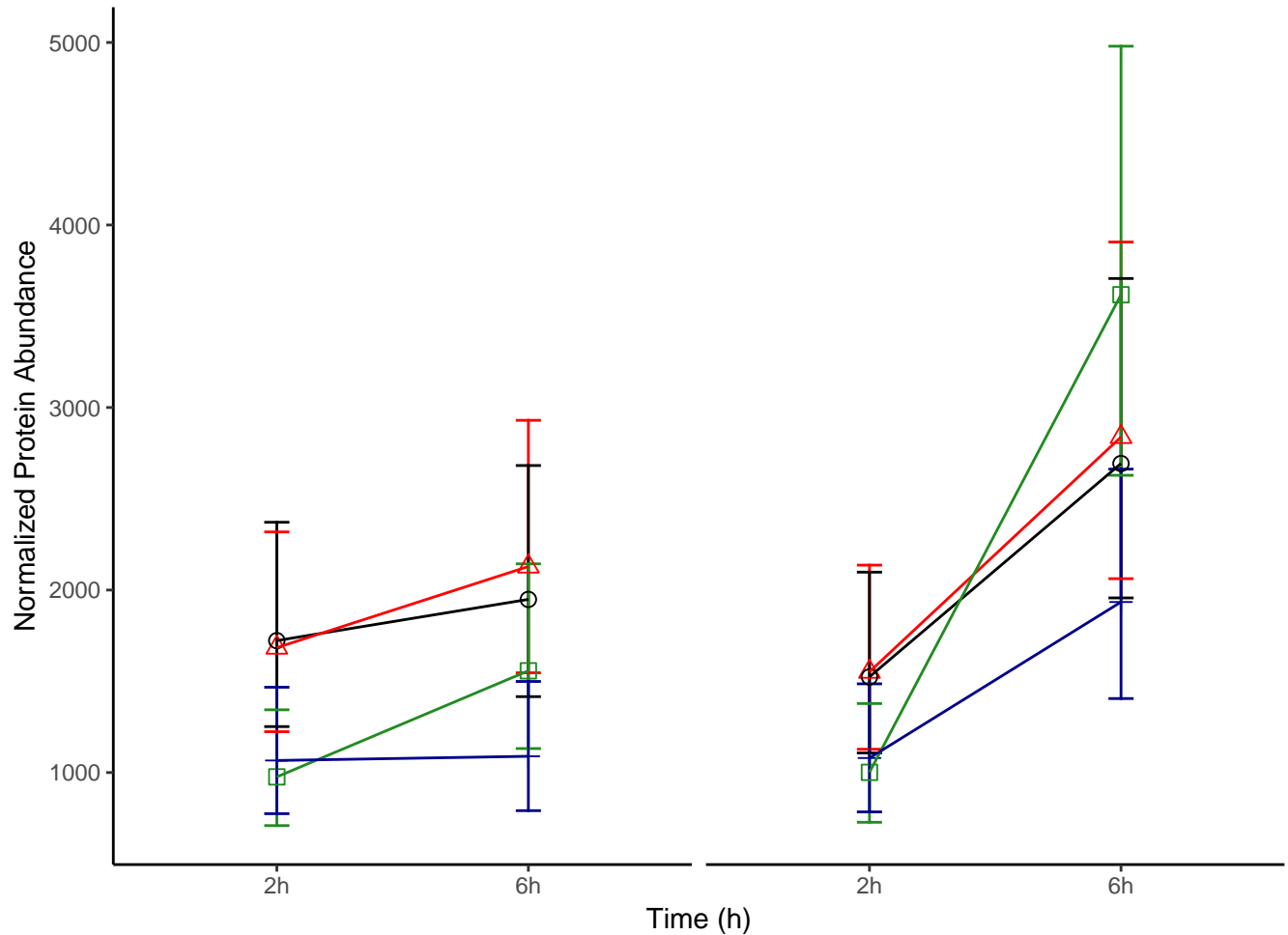


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CCPA\_STAAM

TSB

TSB-dex S-45

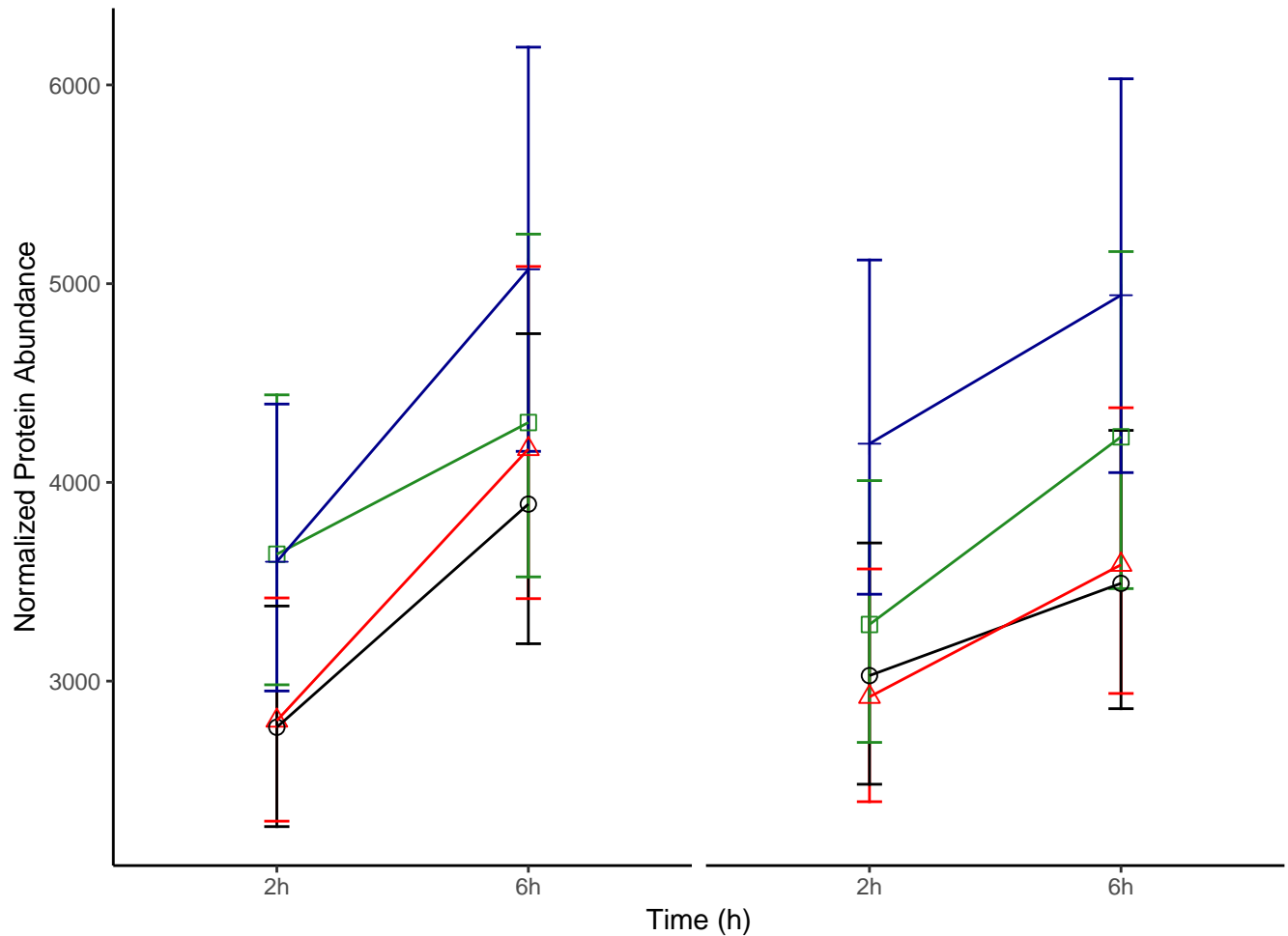


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CDR\_STAAM

TSB

TSB-dex S-46

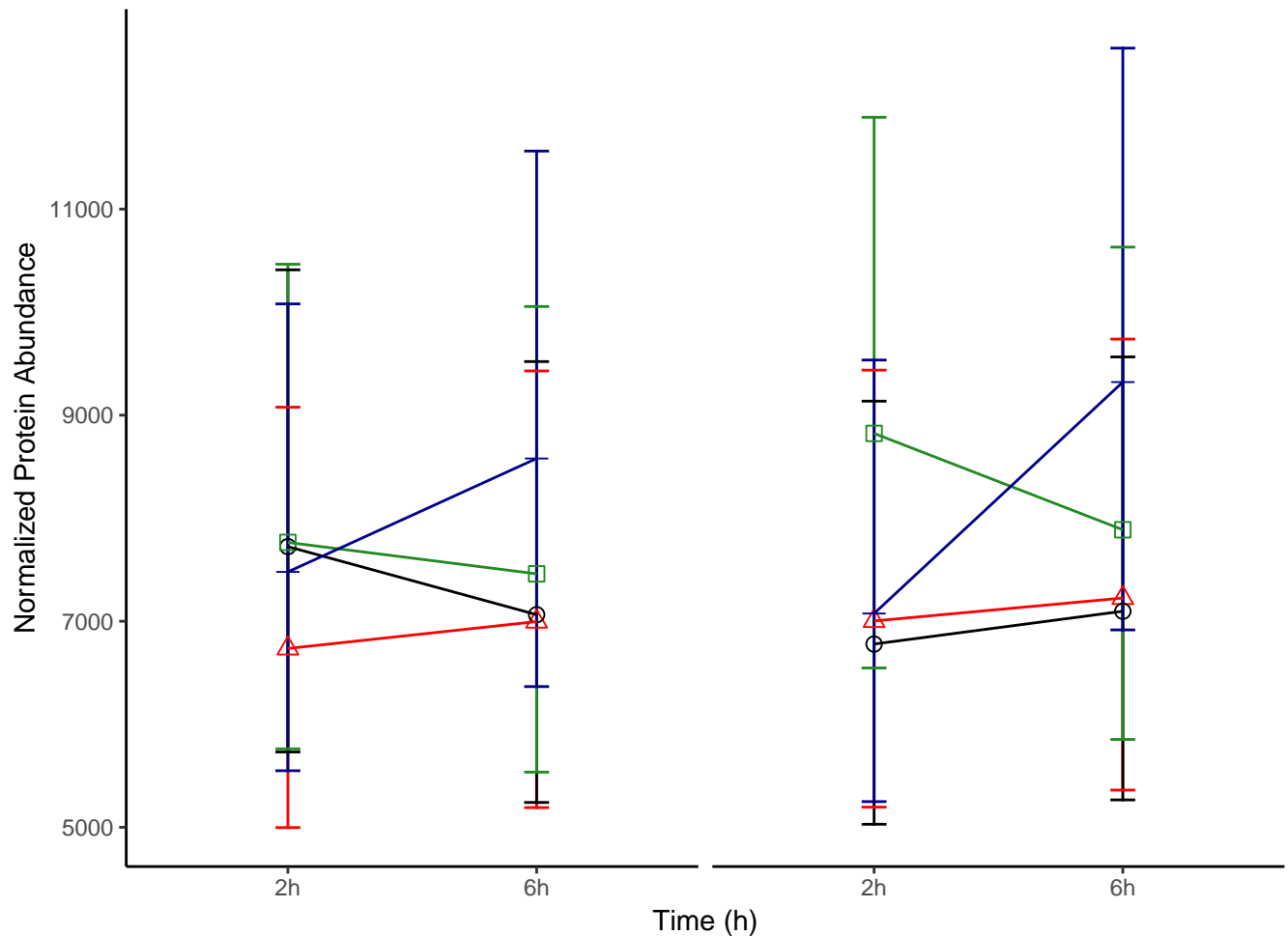


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CH10\_STAAM

TSB

TSB-dex S-47

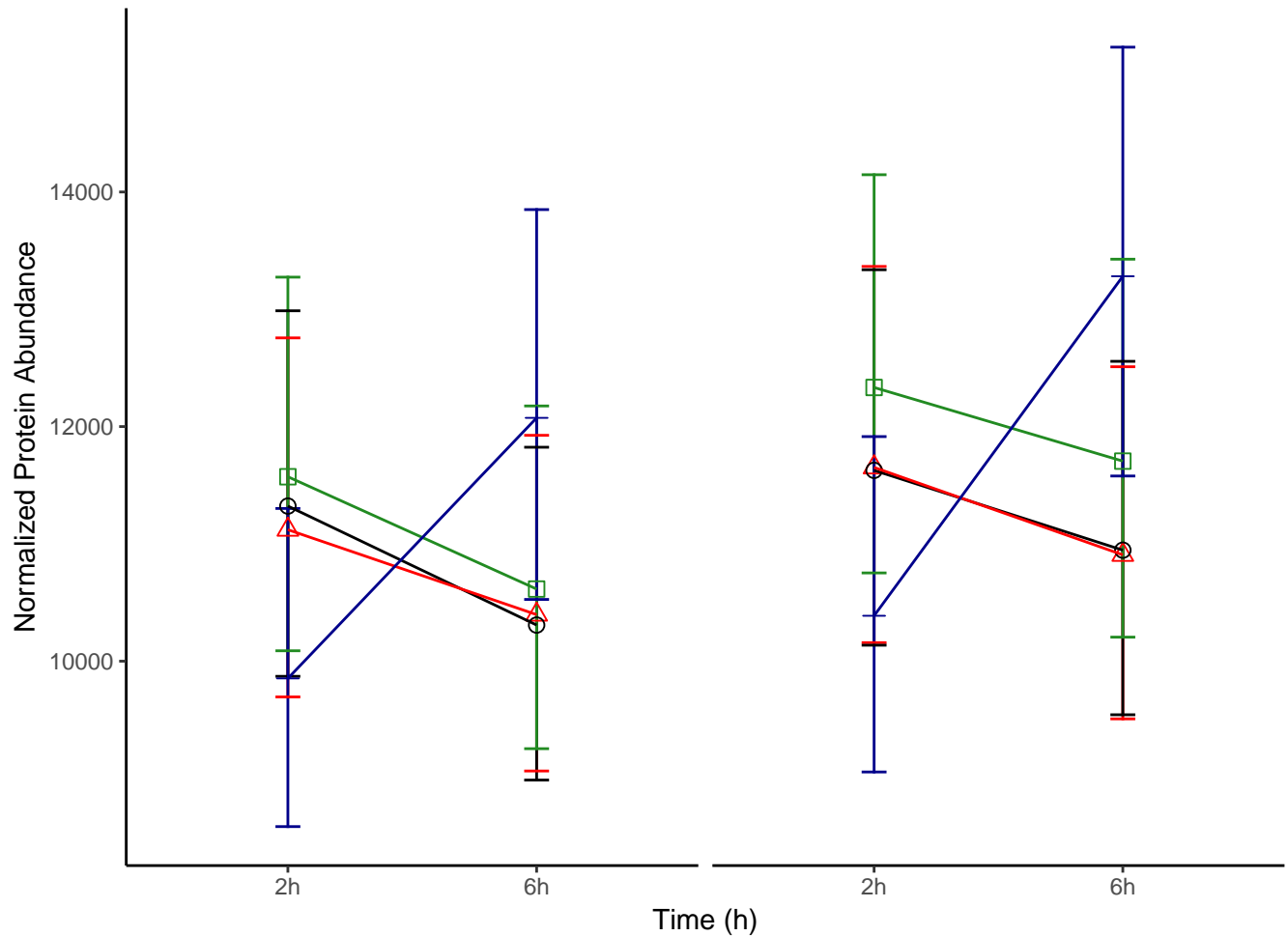


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CH60\_STAAM

TSB

TSB-dex S-48



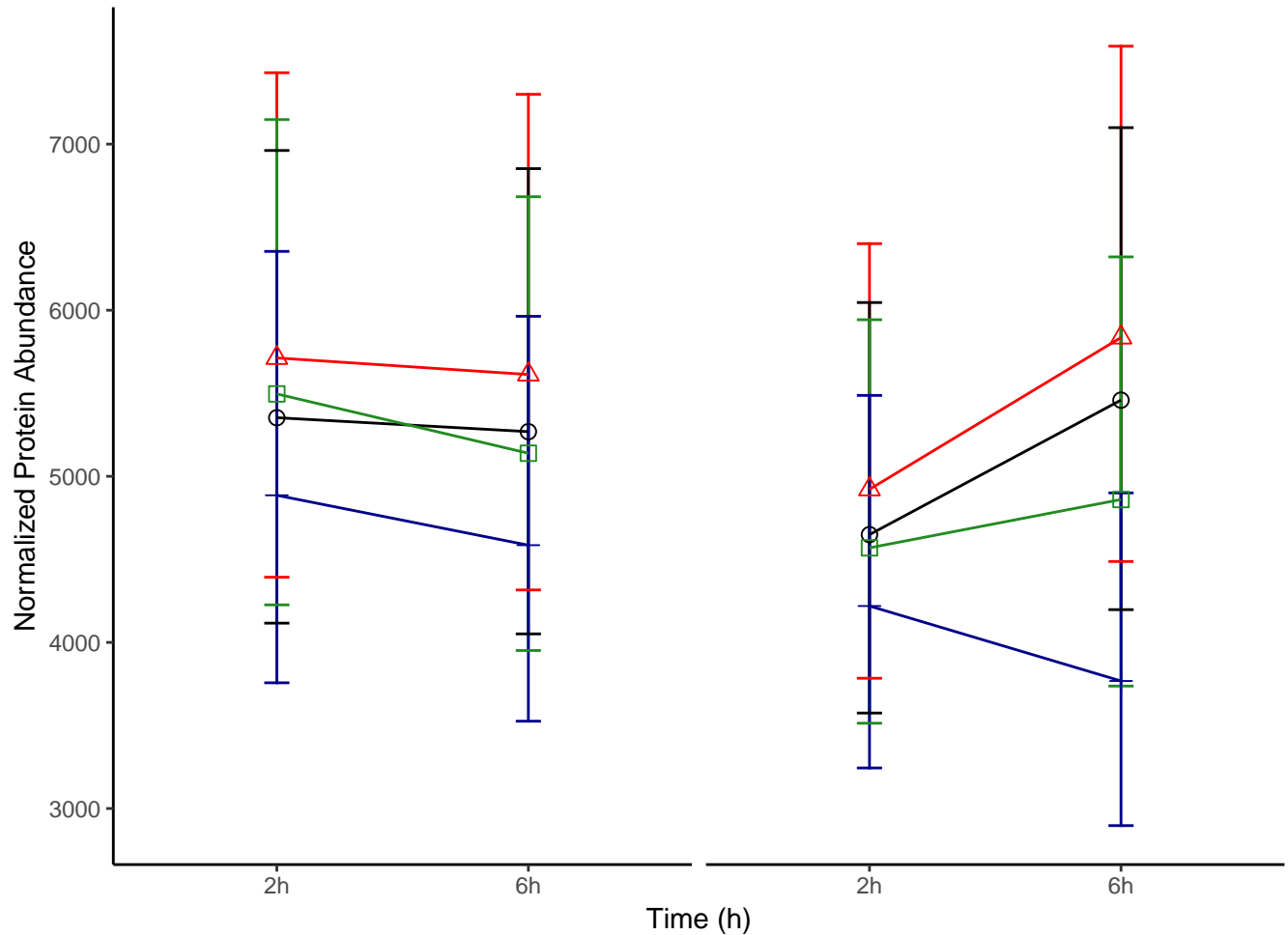
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# CLPB\_STAAM

TSB

TSB-dex S-49

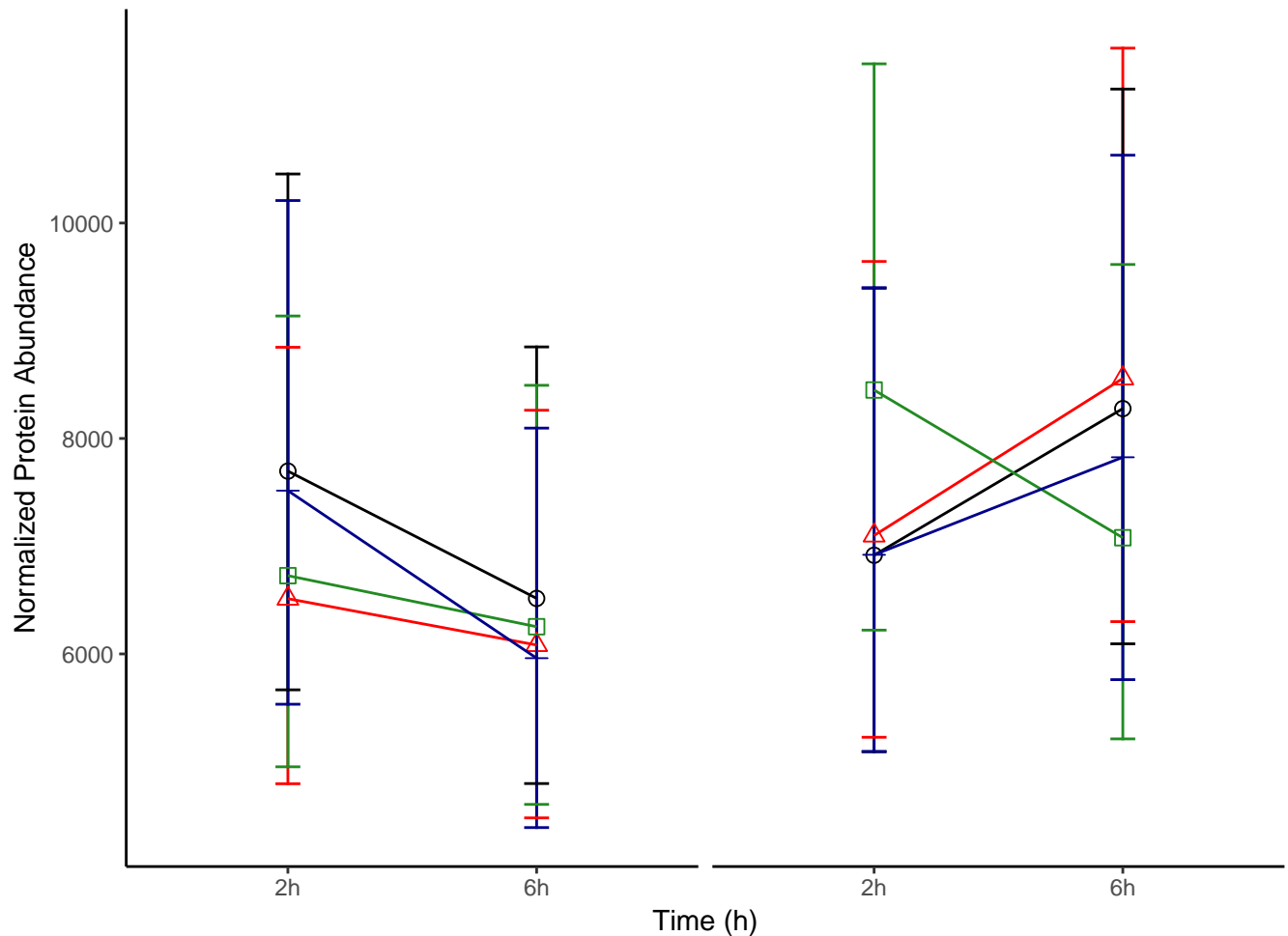


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CLPC\_STAAM

TSB

TSB-dex S-50

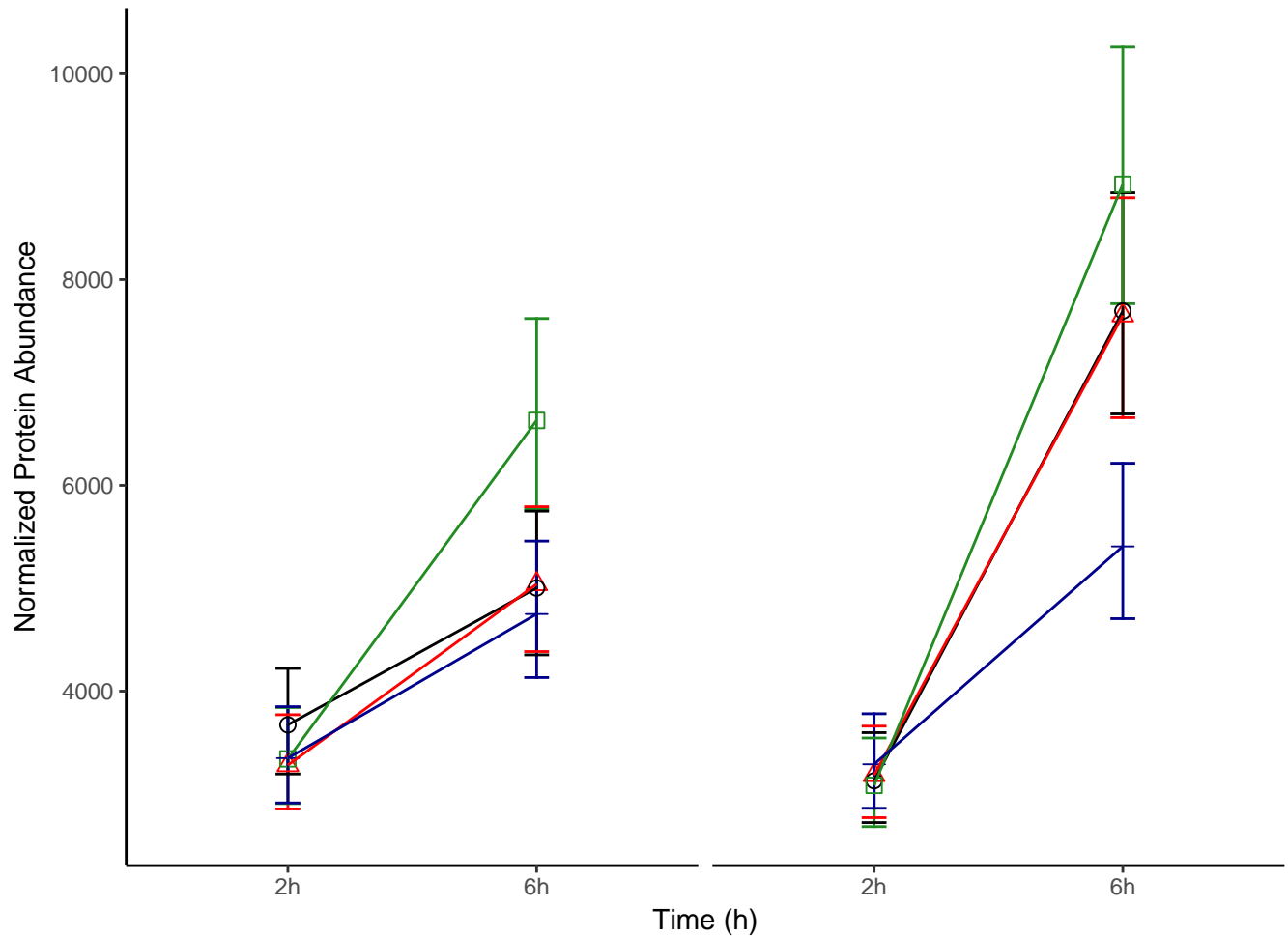


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CLPL\_STAAM

TSB

TSB-dex S-51

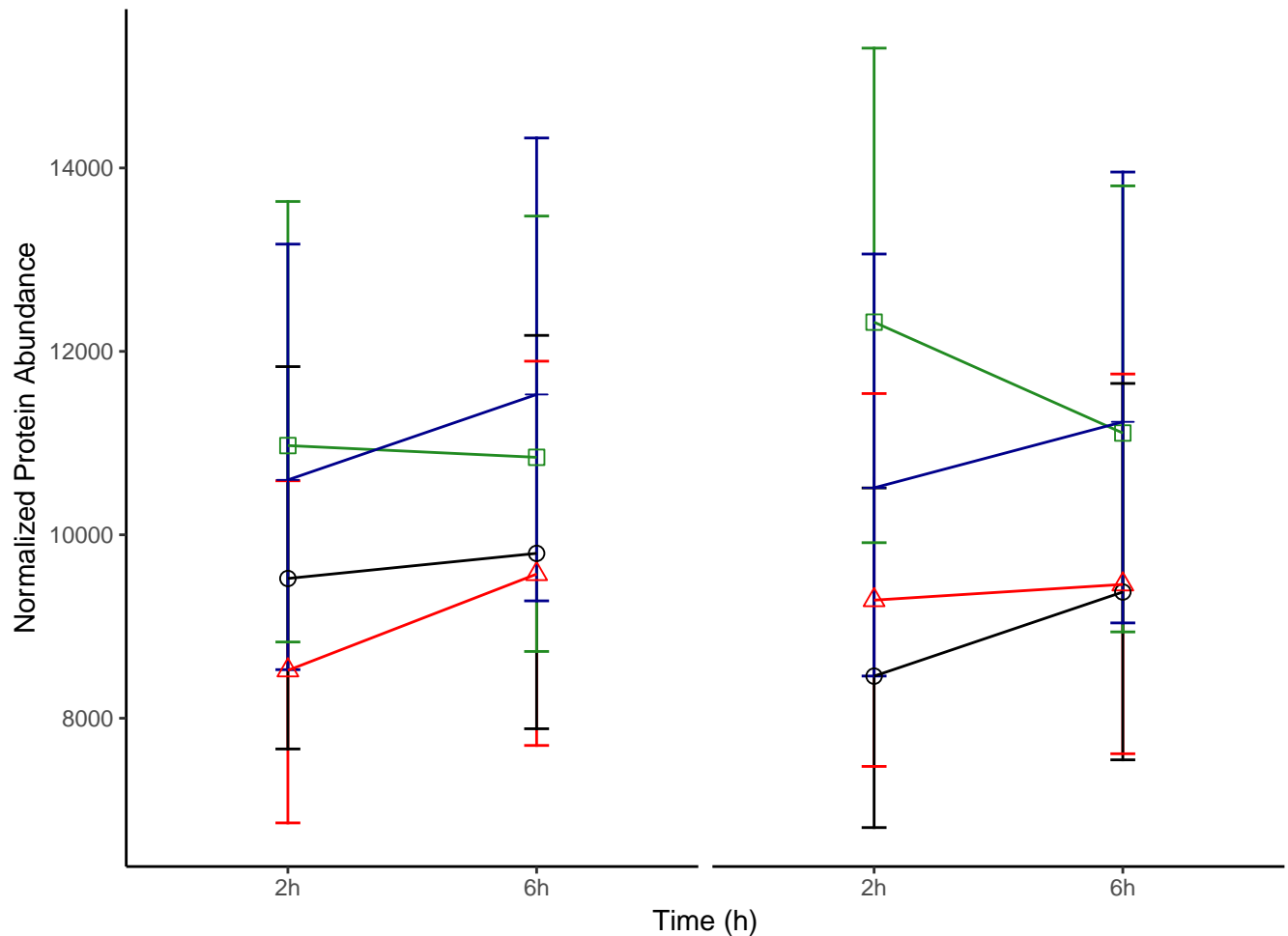


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CLPP\_STAAM

TSB

TSB-dex S-52

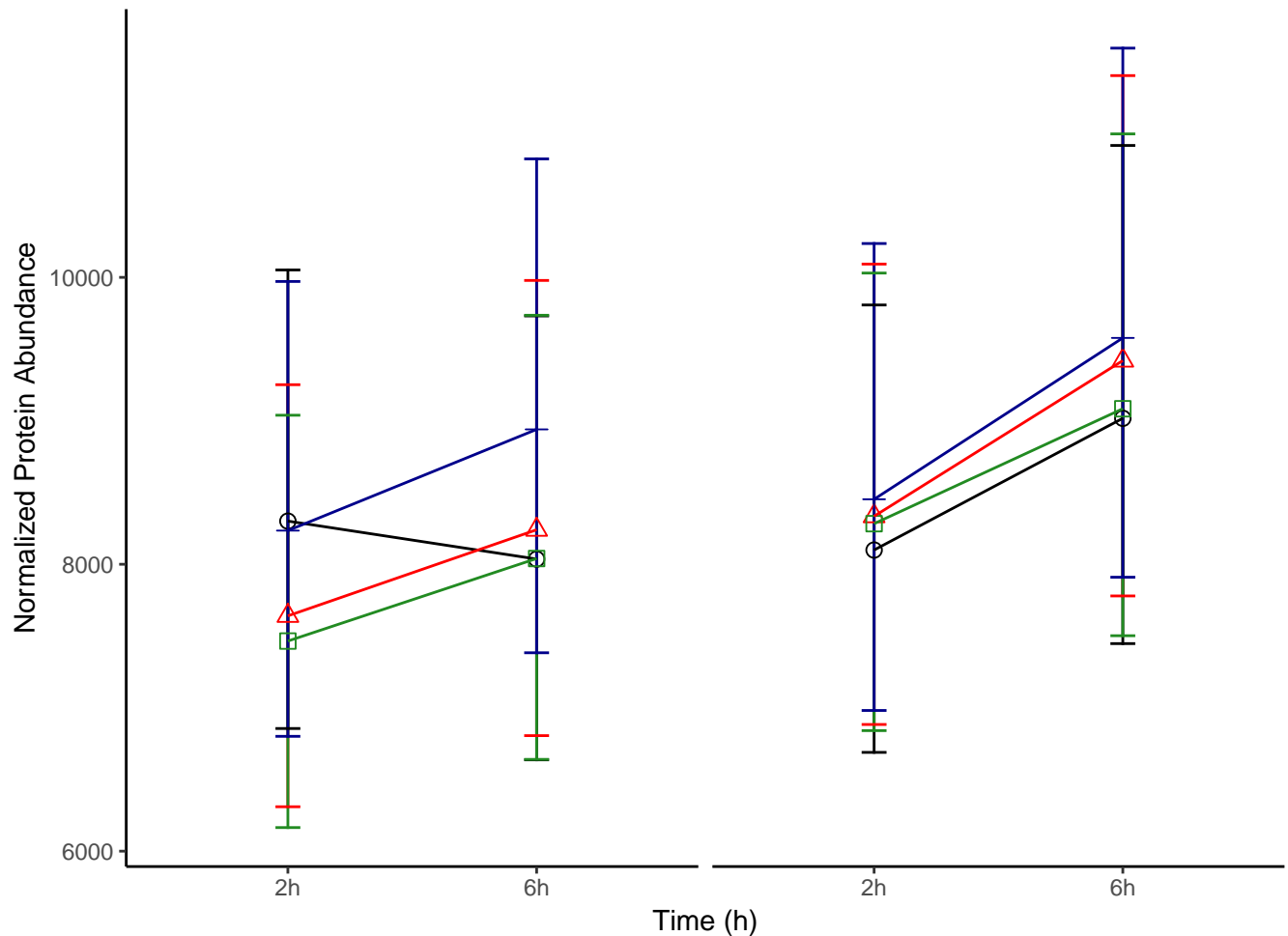


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CLPX\_STAAM

TSB

TSB-dex S-53

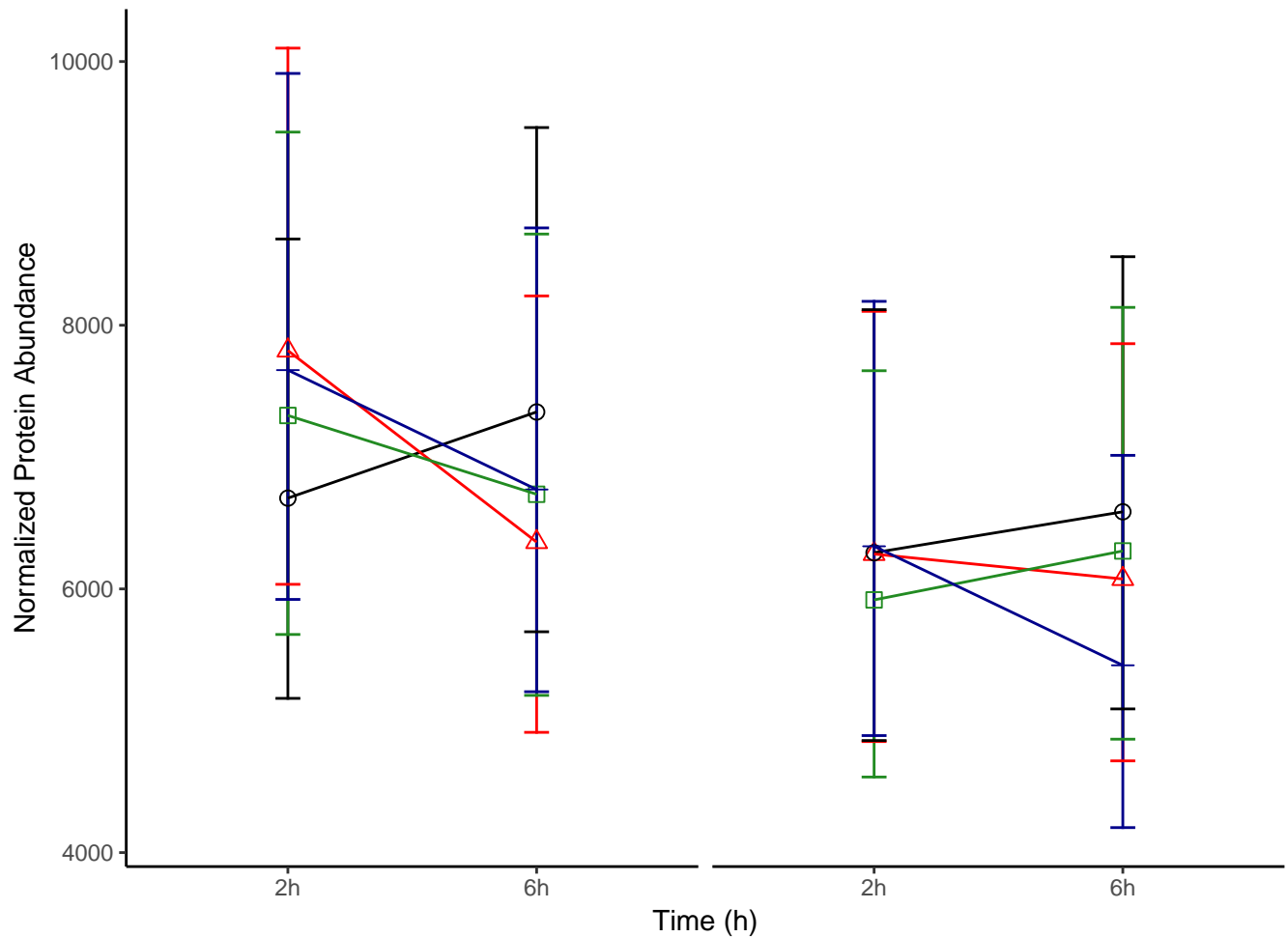


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CODY\_STAAM

TSB

TSB-dex S-54

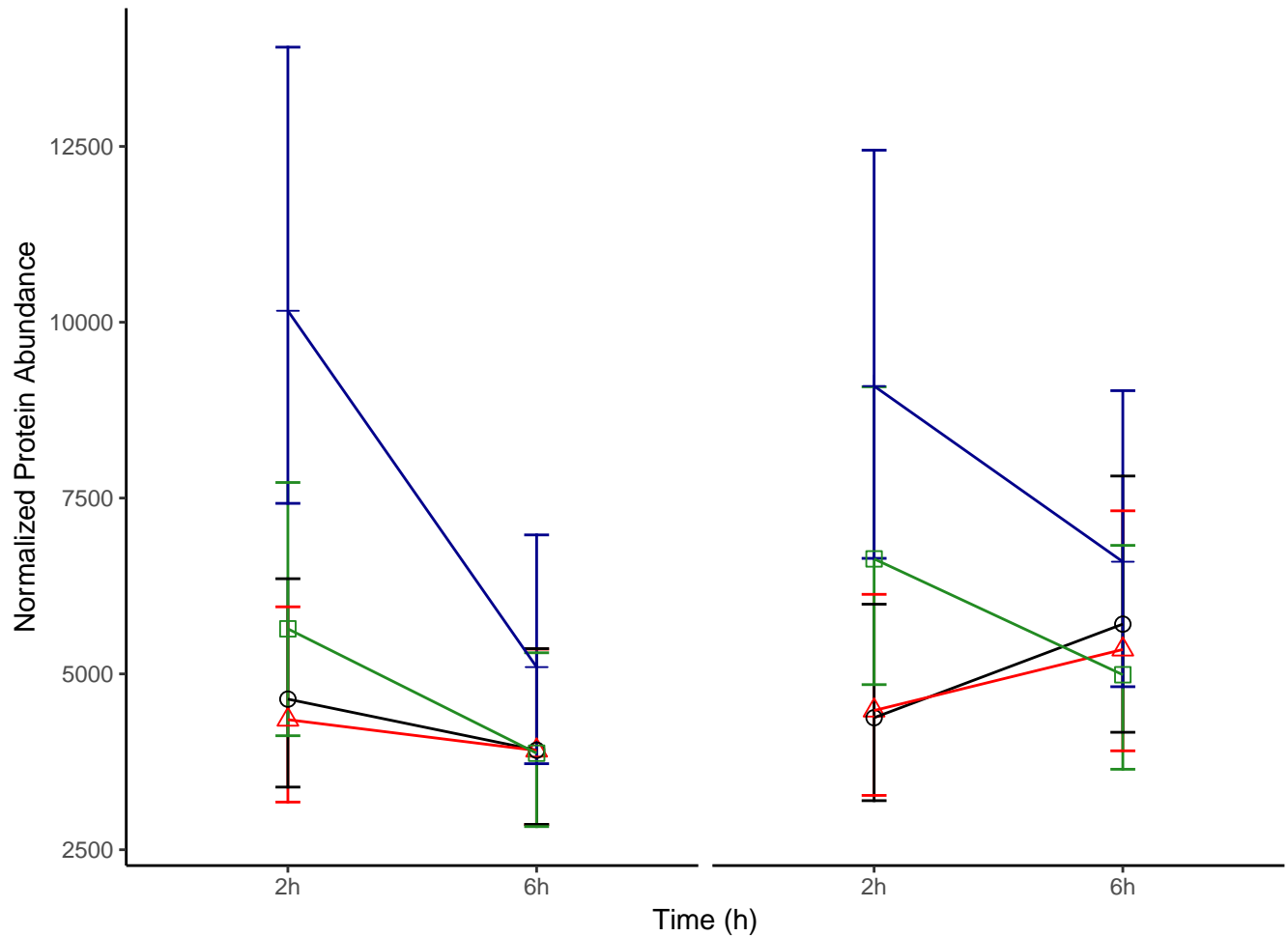


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# COPZ\_STAAM

TSB

TSB-dex S-55

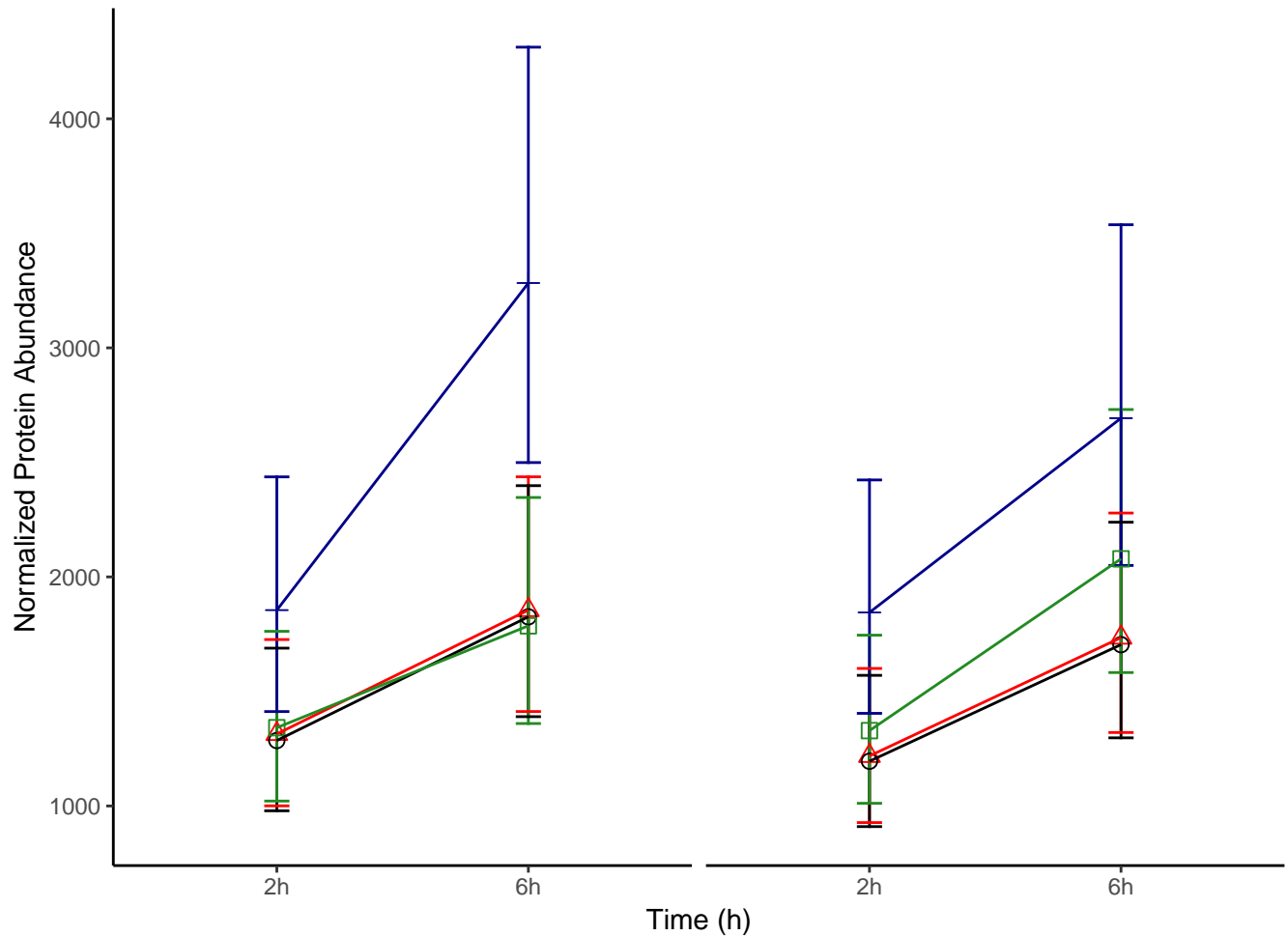


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CRTN\_STAAM

TSB

TSB-dex S-56



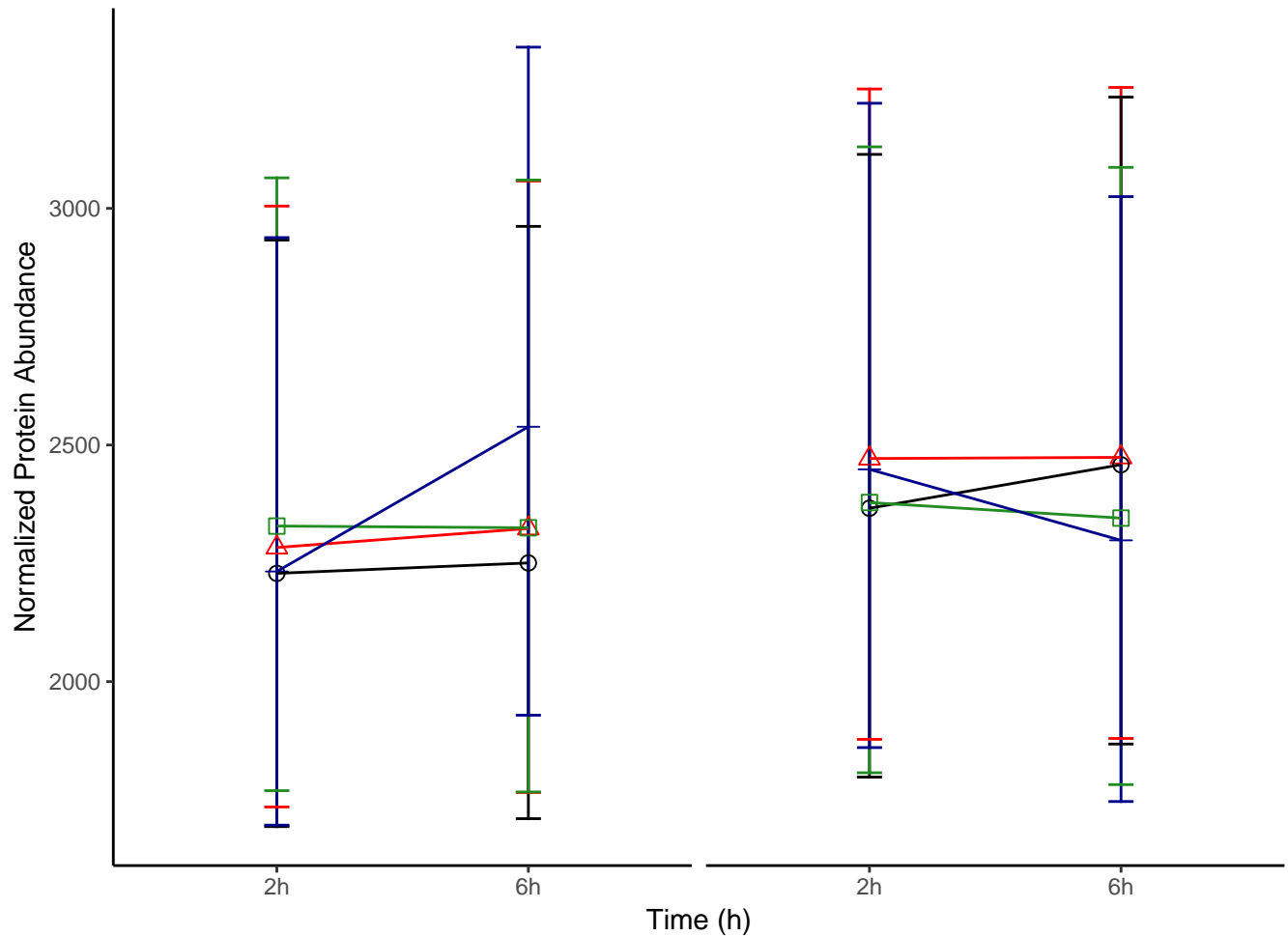
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# CSD\_STAAM

TSB

TSB-dex S-57

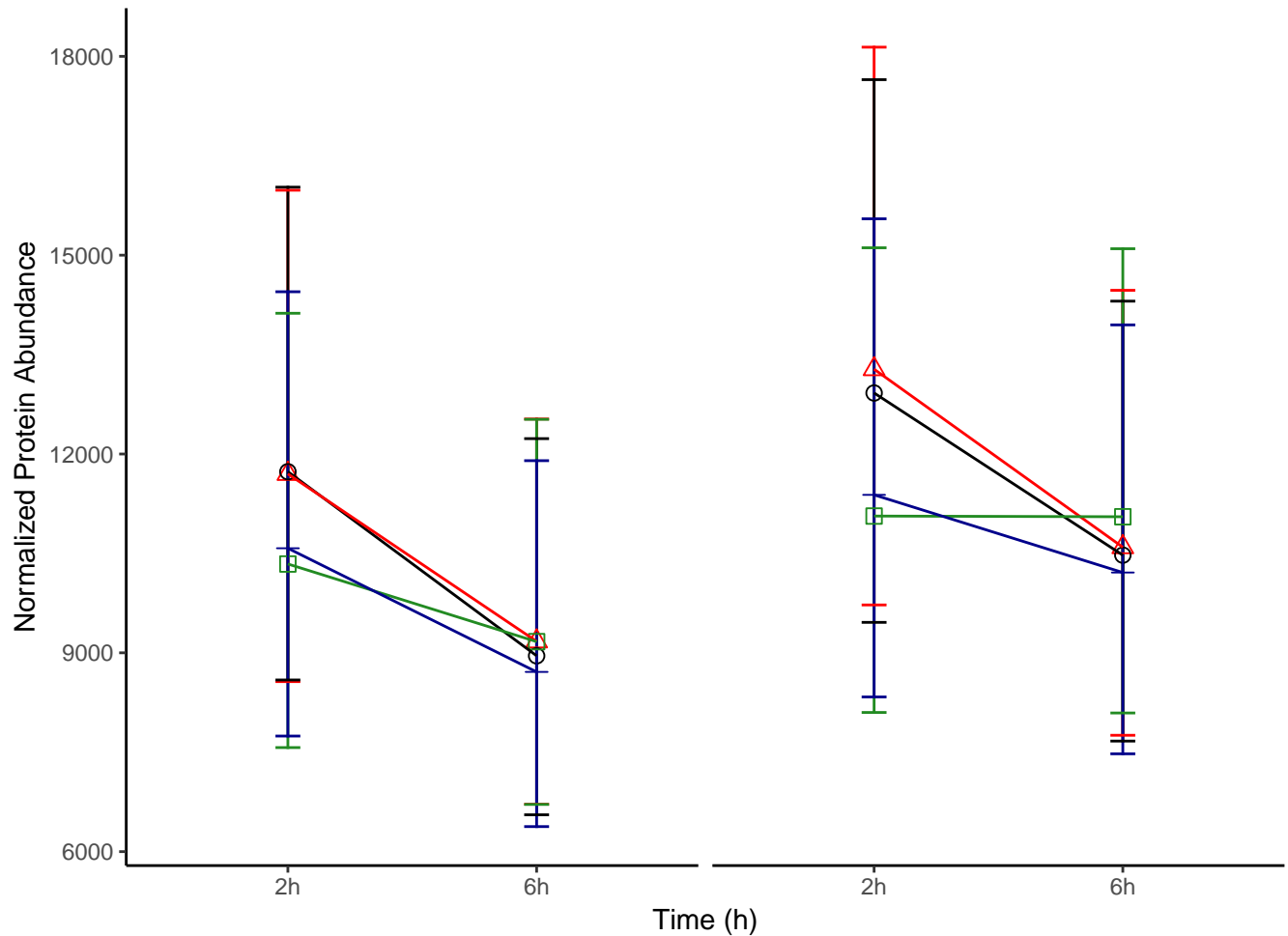


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CSHA\_STAAM

TSB

TSB-dex S-58



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# CSPA\_STAAM

TSB

TSB-dex S-59

Normalized Protein Abundance

2e+05

1e+05

2h

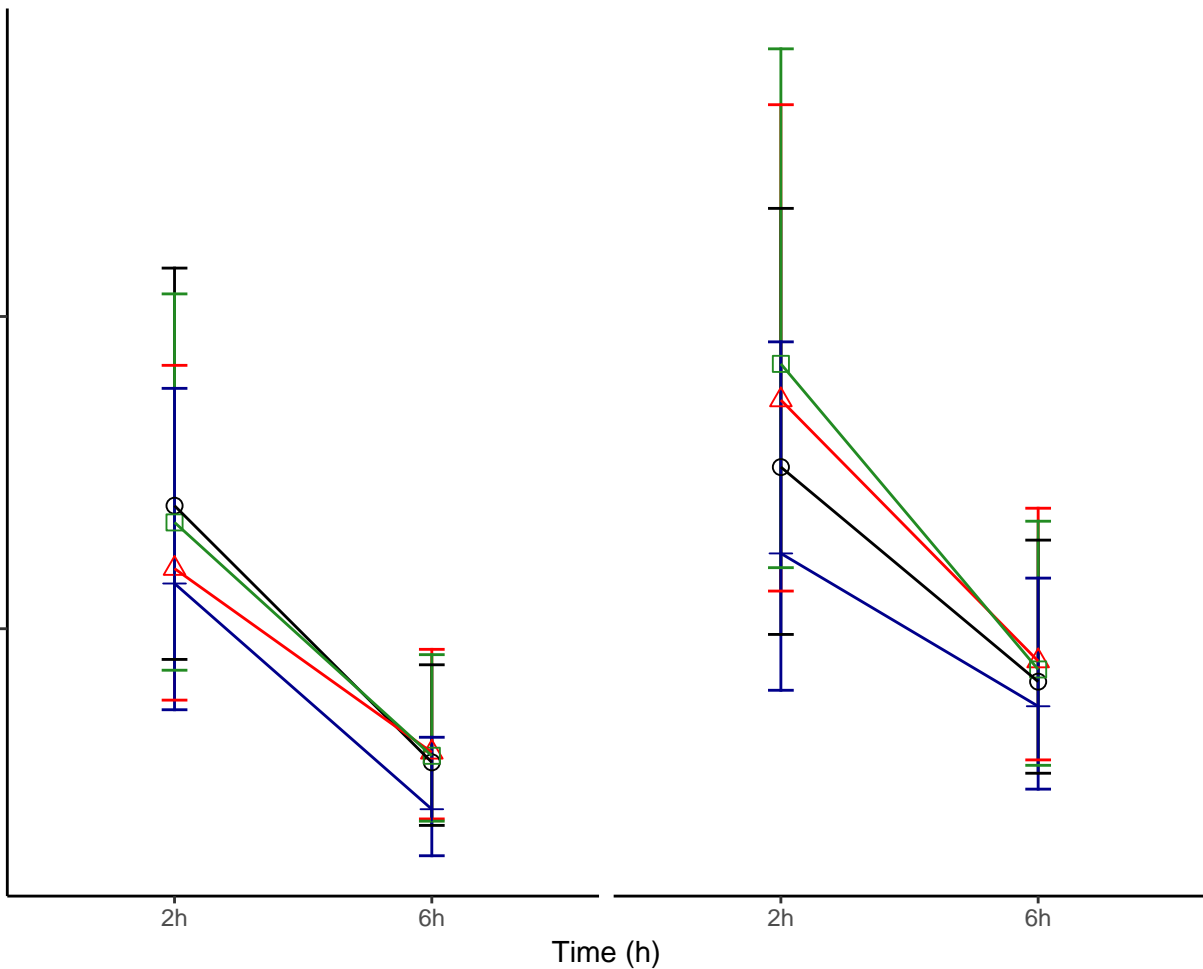
6h

Time (h)

2h

6h

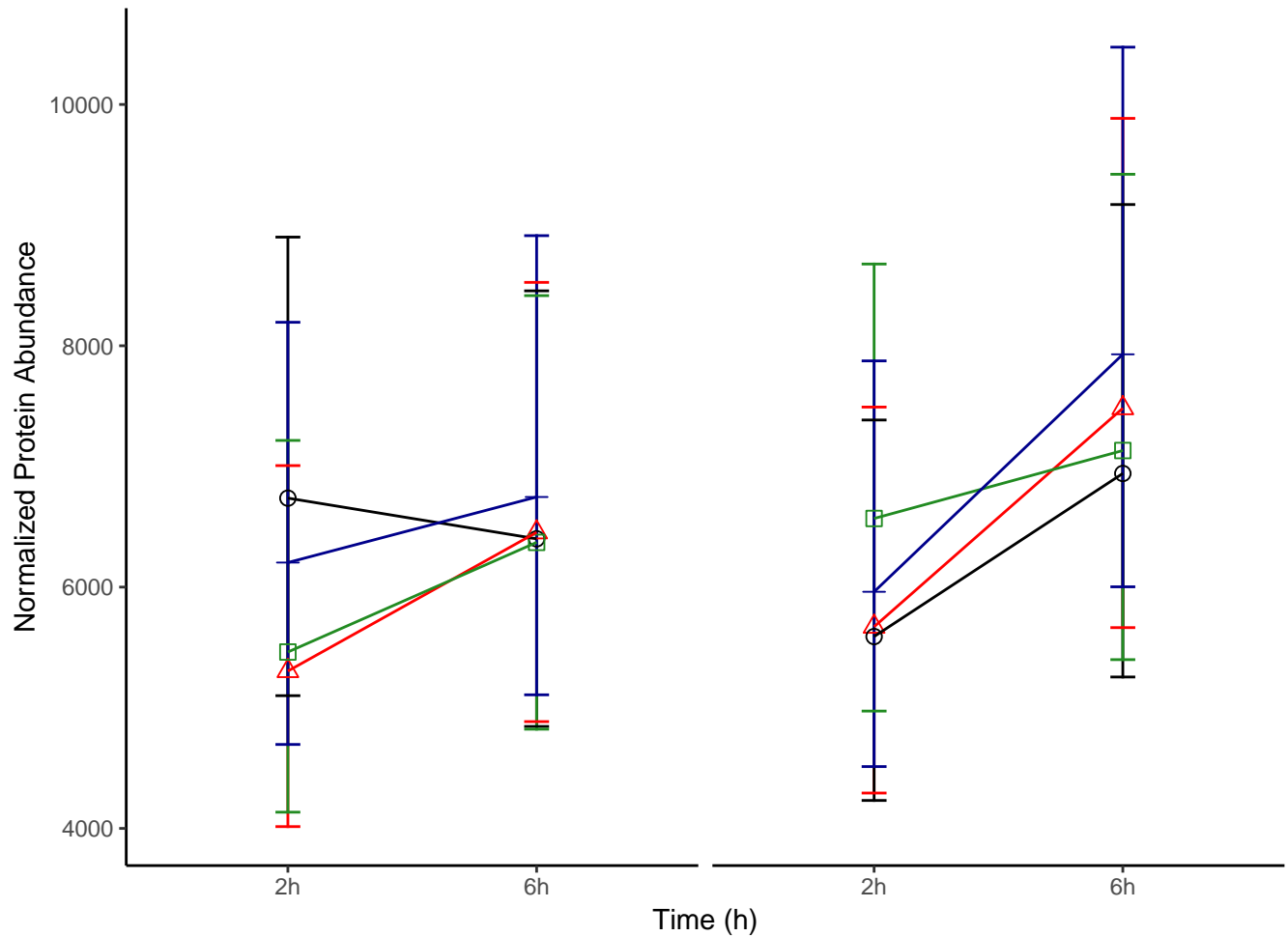
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## CTPAL\_STAAM

TSB

TSB-dex S-60

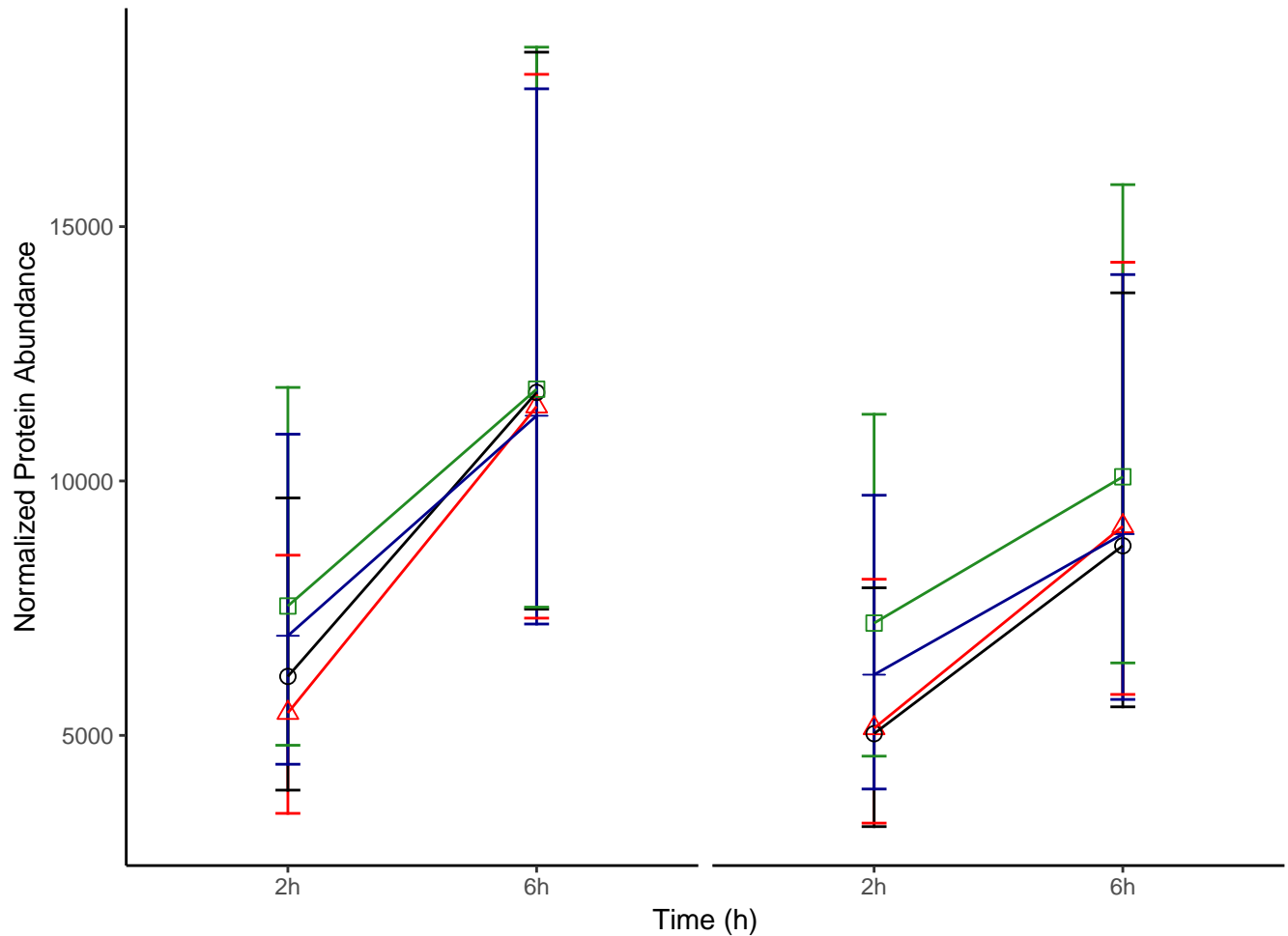


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CVFB\_STAAM

TSB

TSB-dex S-61

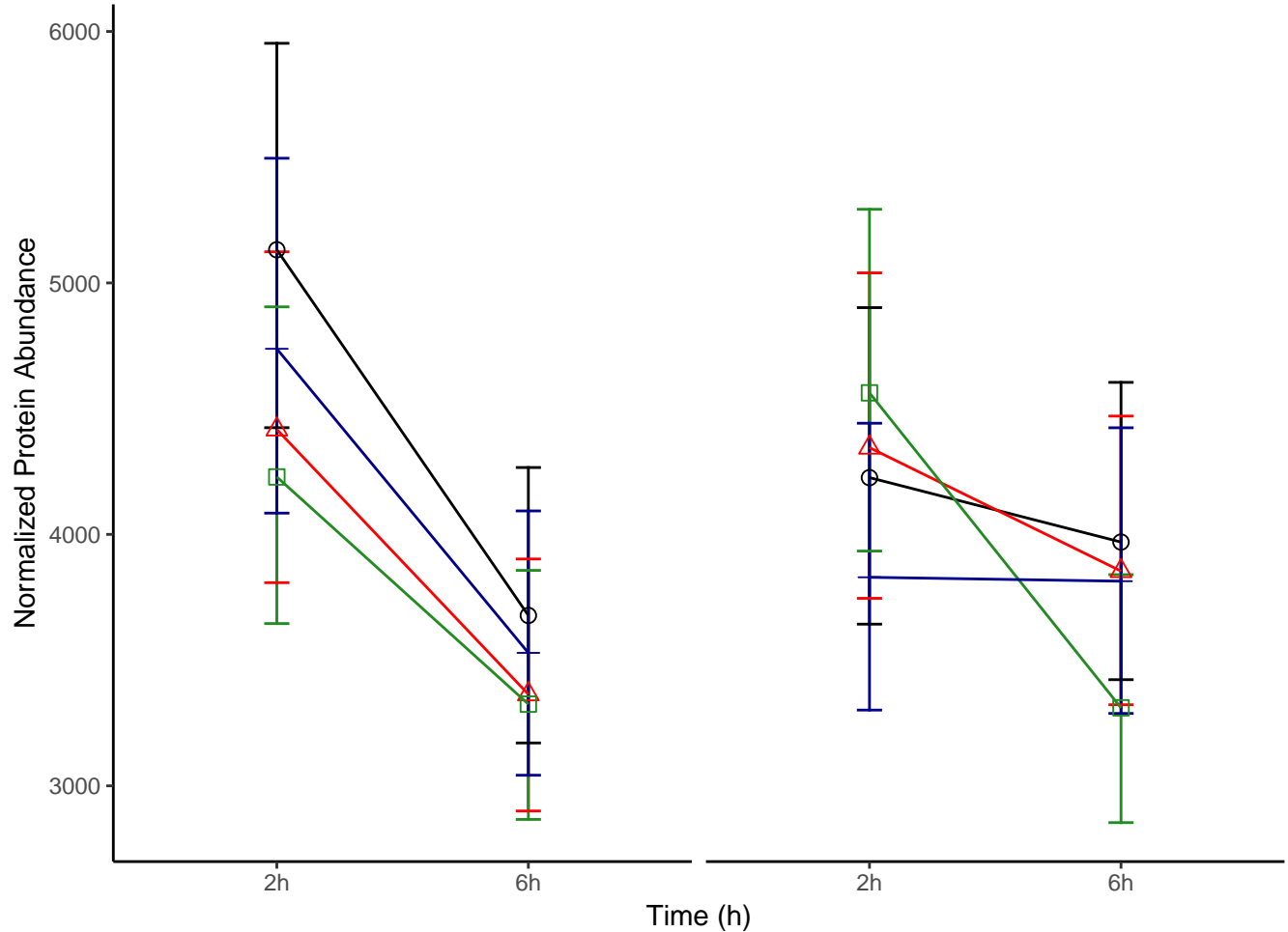


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CYSE\_STAAM

TSB

TSB-dex S-62

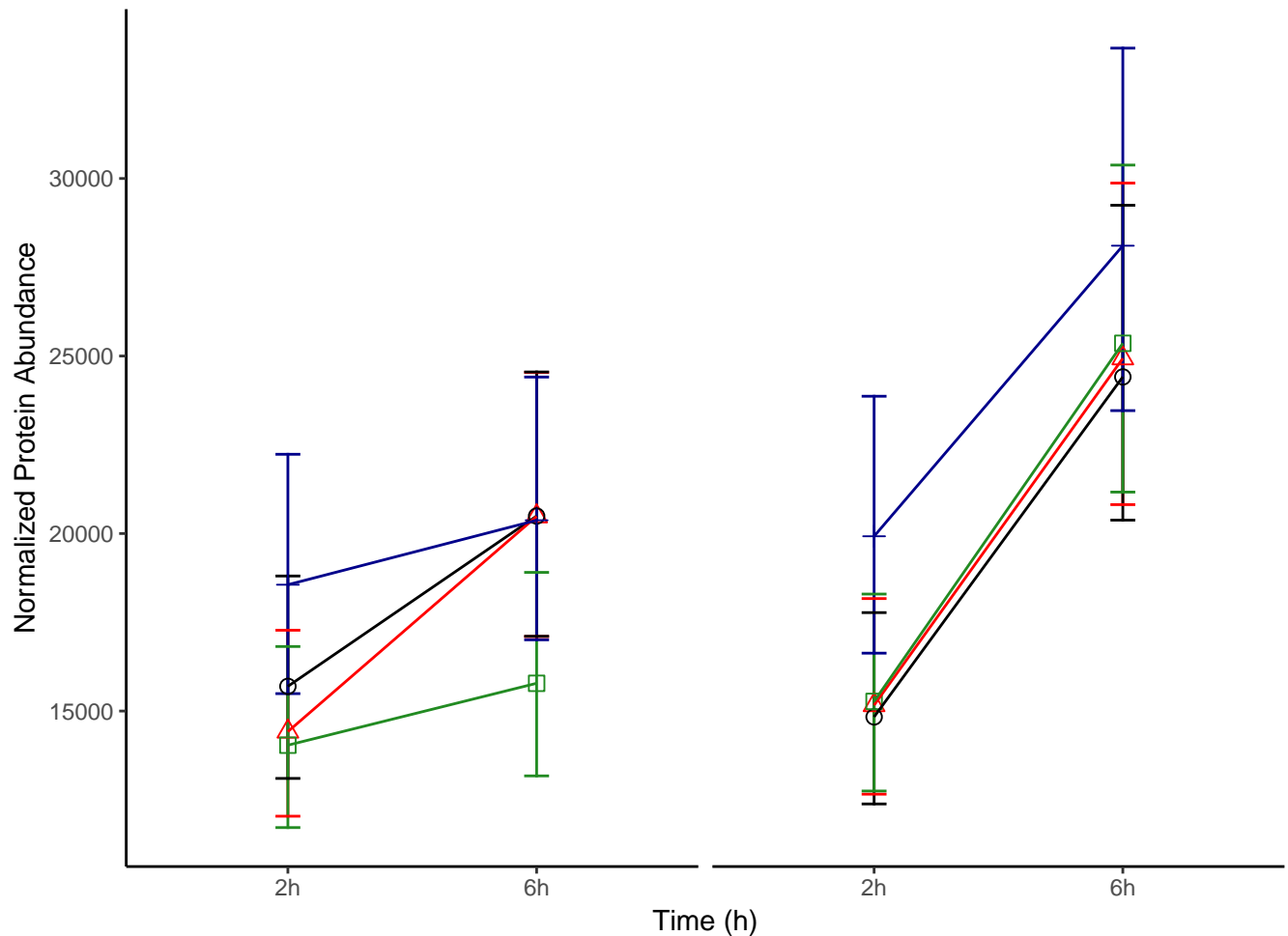


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CYSK\_STAAM

TSB

TSB-dex S-63

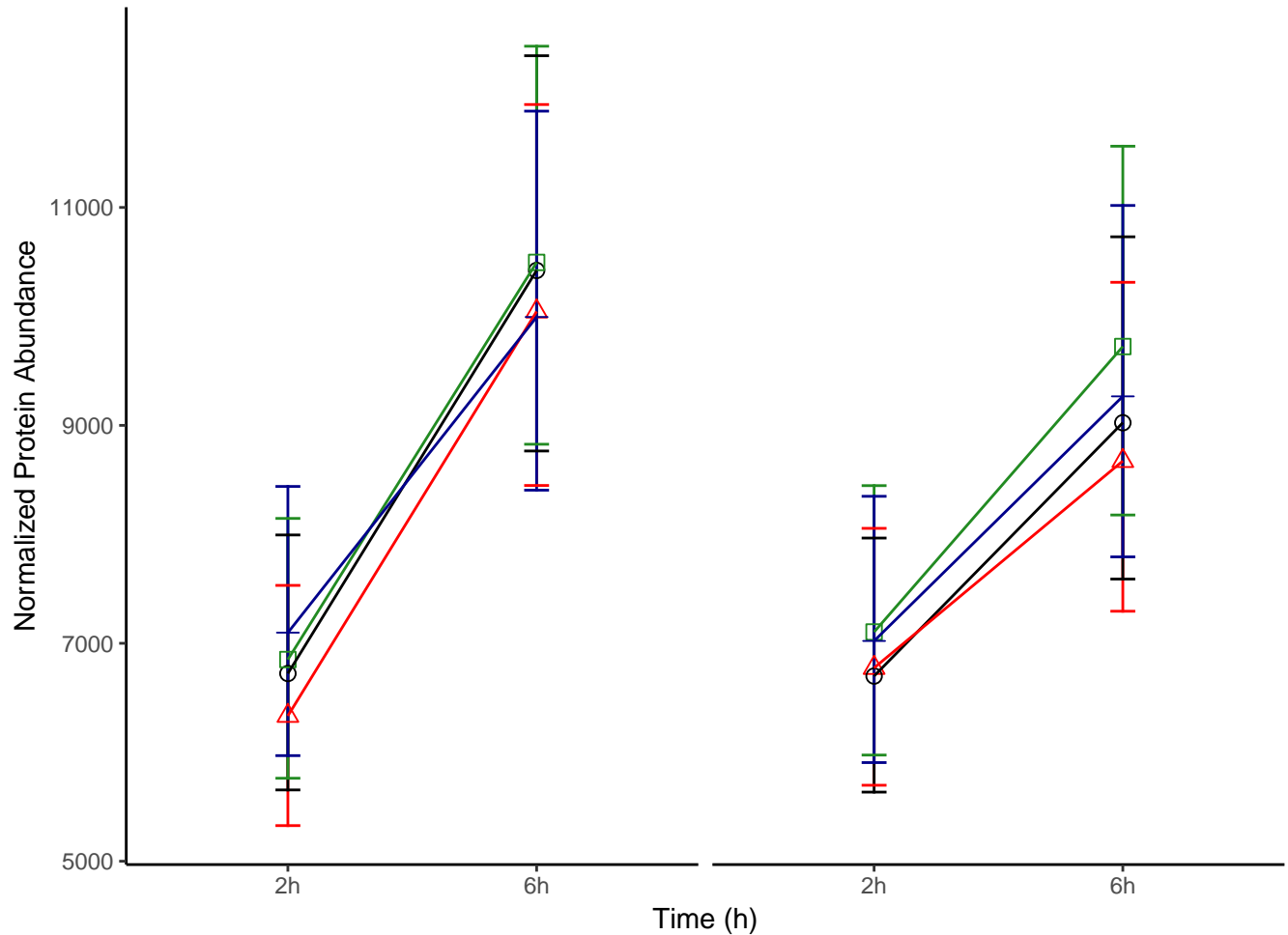


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DAAA\_STAAM

TSB

TSB-dex S-64



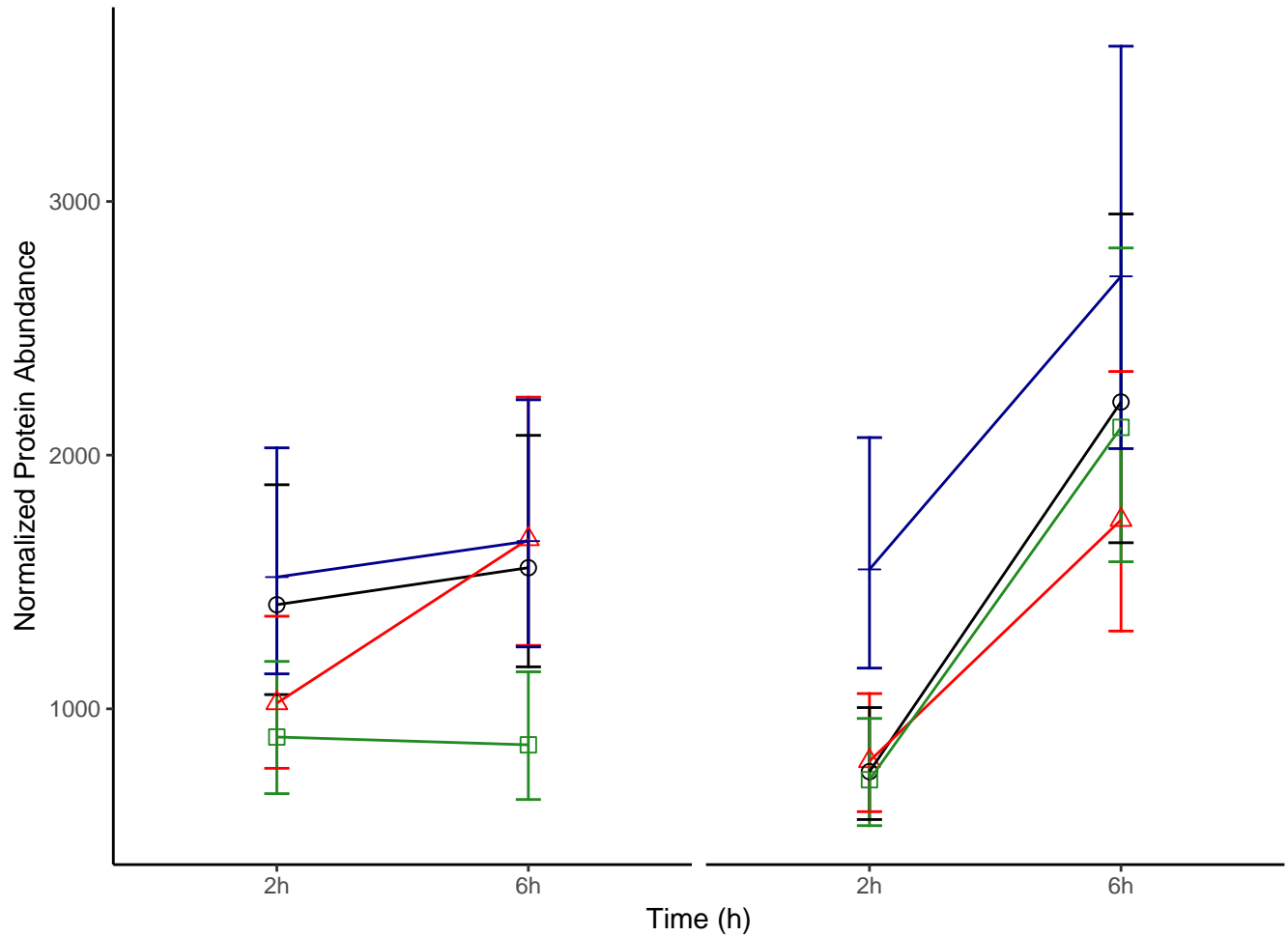
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# DAPB\_STAAM

TSB

TSB-dex S-65

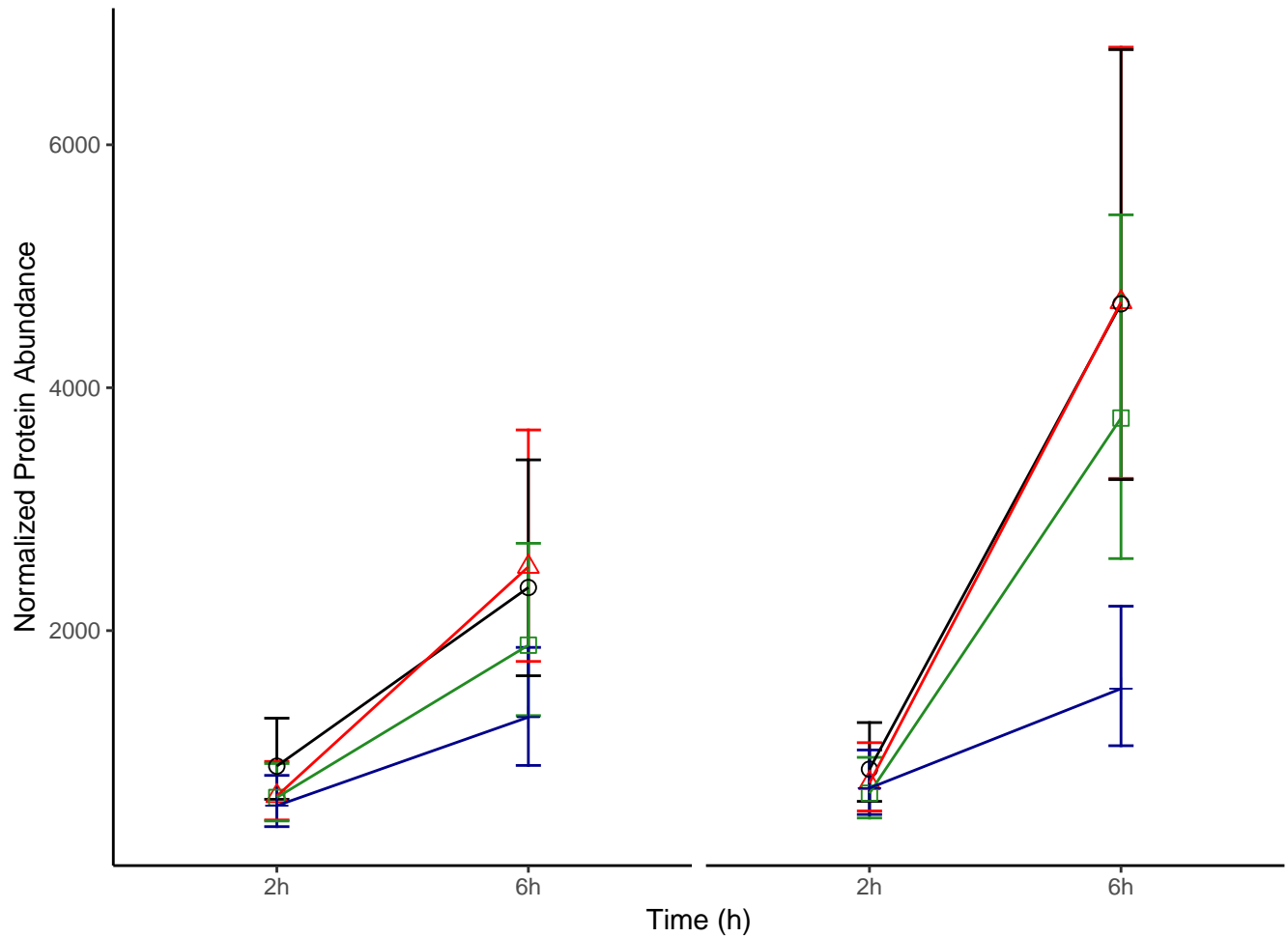


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DAPH\_STAAM

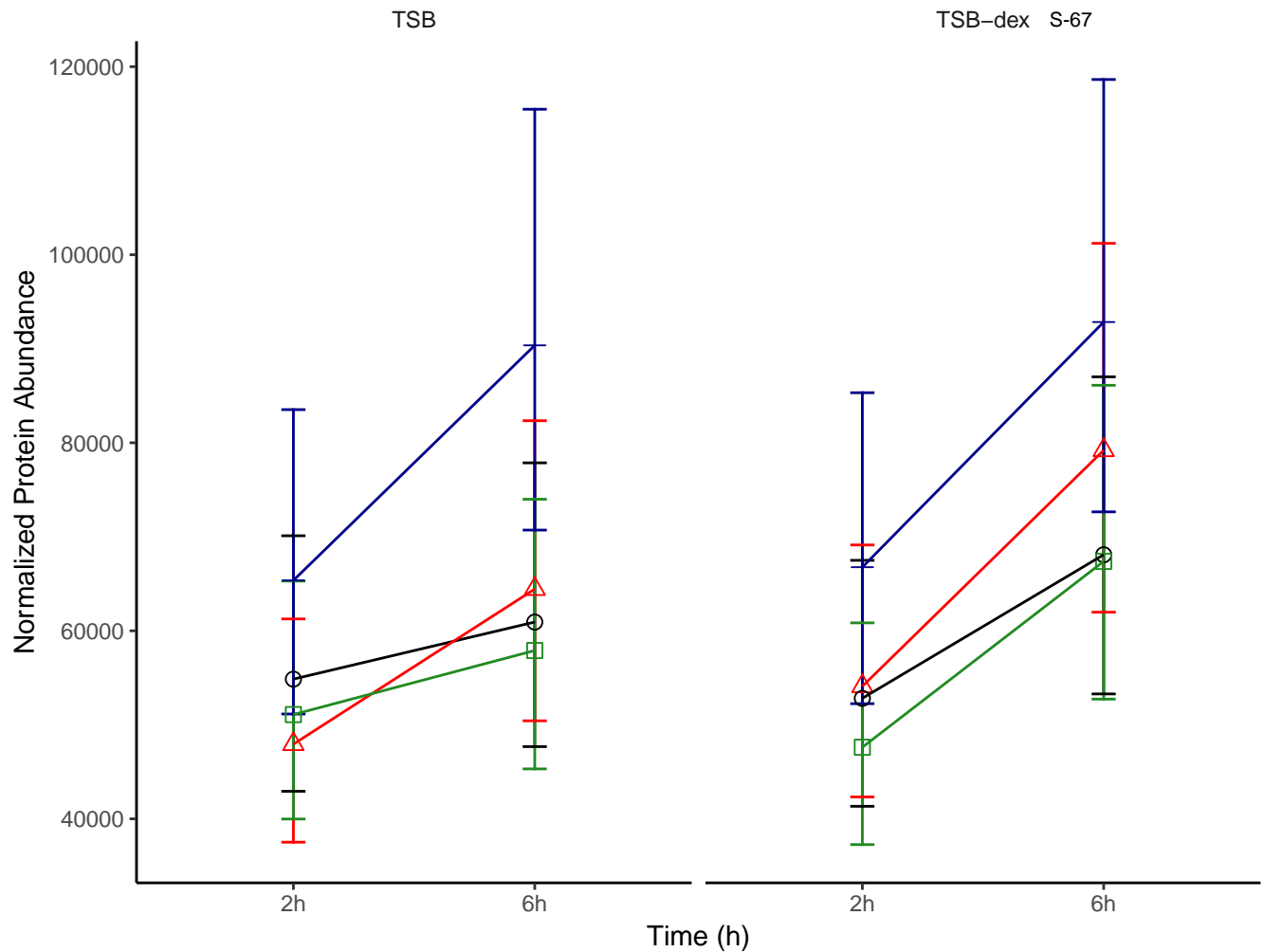
TSB

TSB-dex S-66



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# DBH\_STAAM

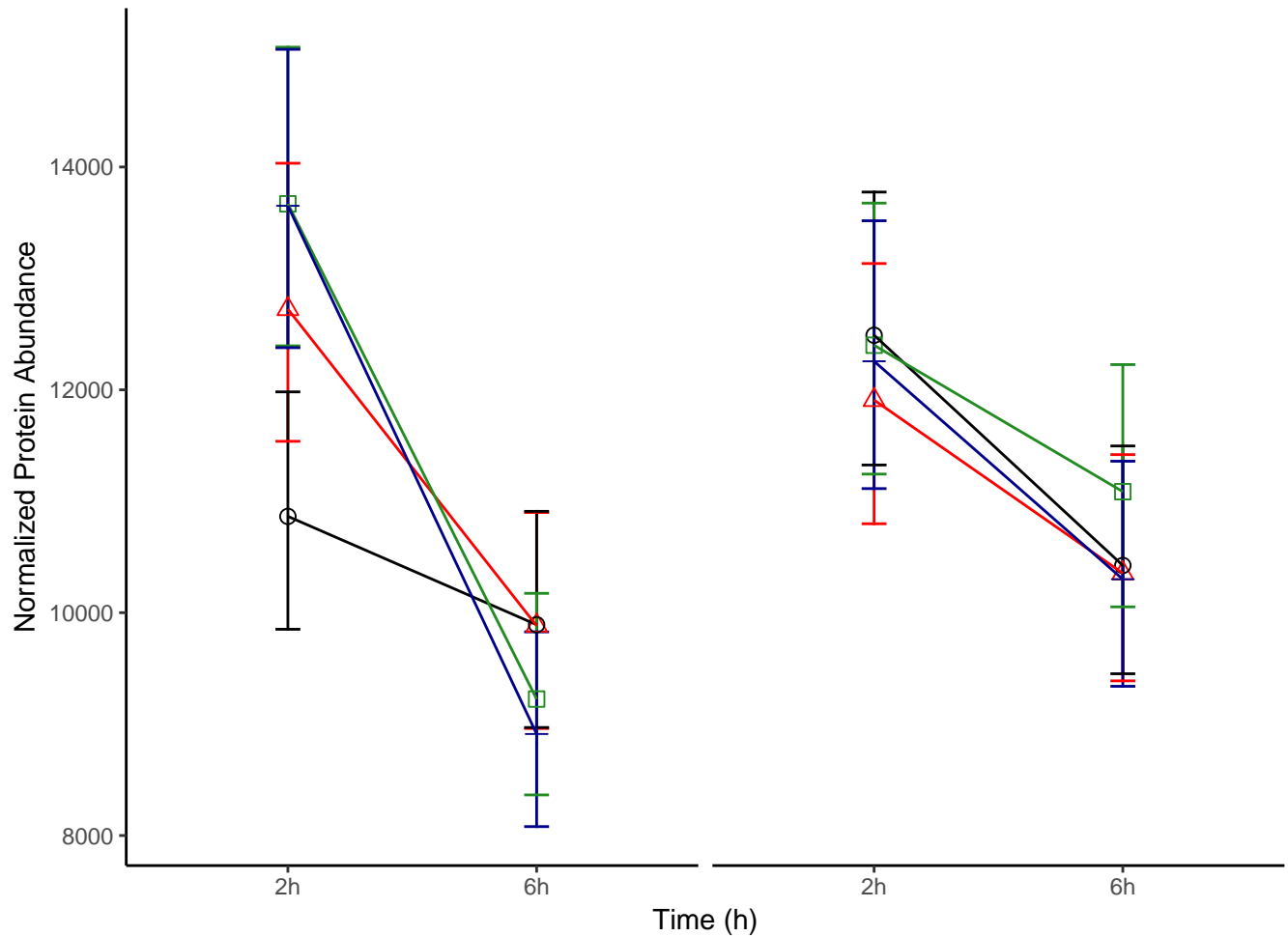


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DCUP\_STAAM

TSB

TSB-dex S-68

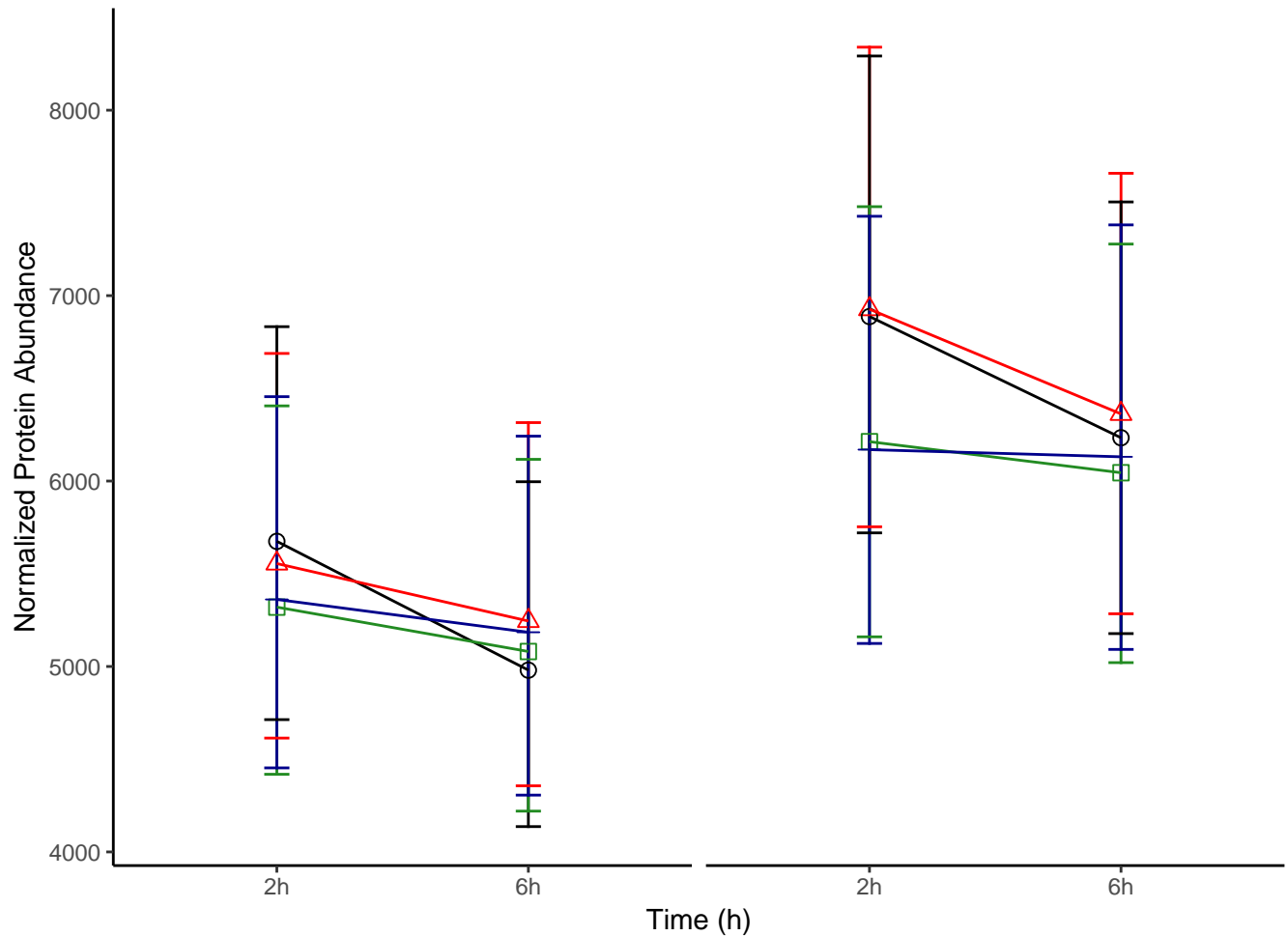


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## DDL\_STAAM

TSB

TSB-dex S-69

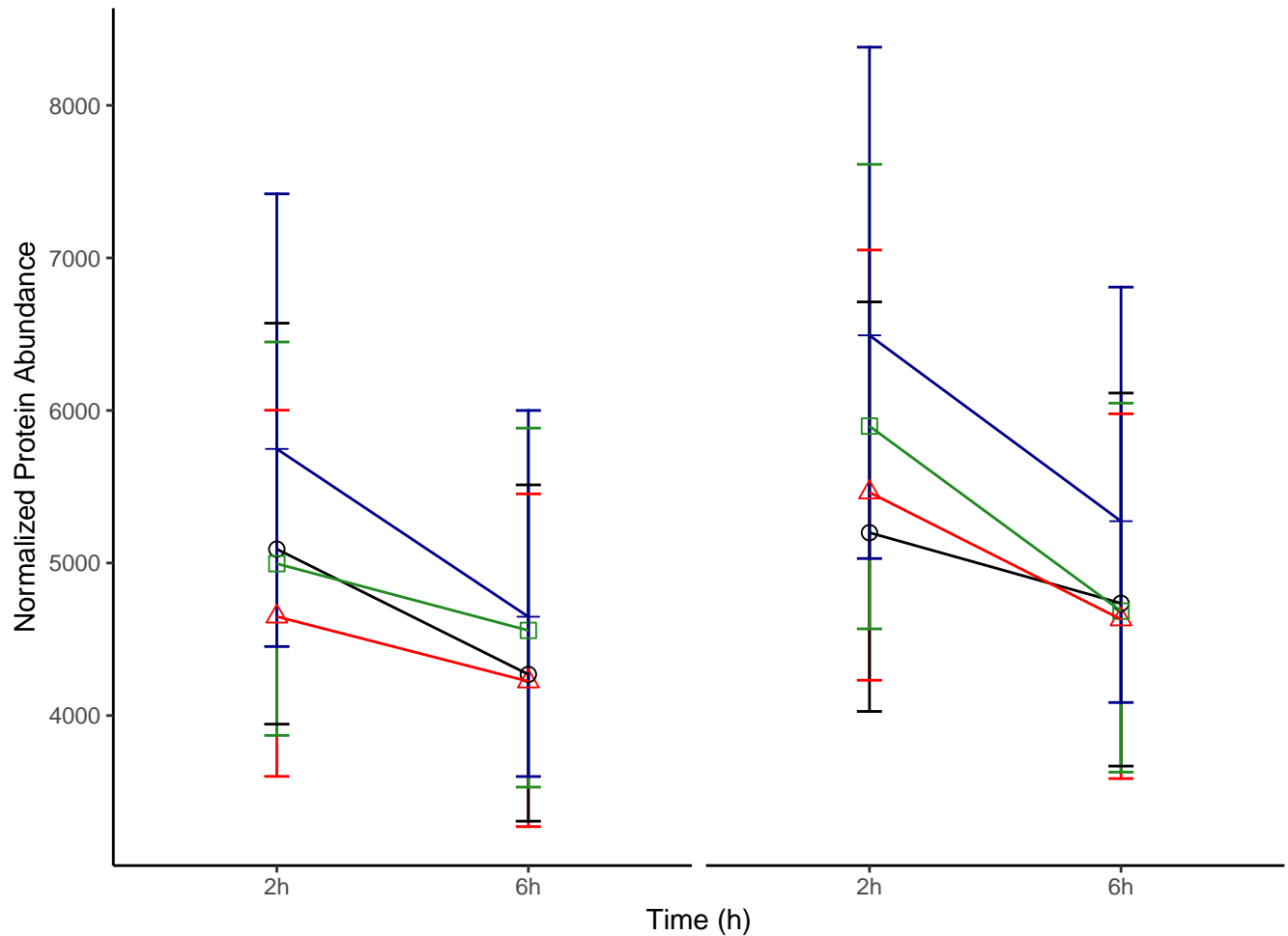


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DEF\_STAAM

TSB

TSB-dex S-70

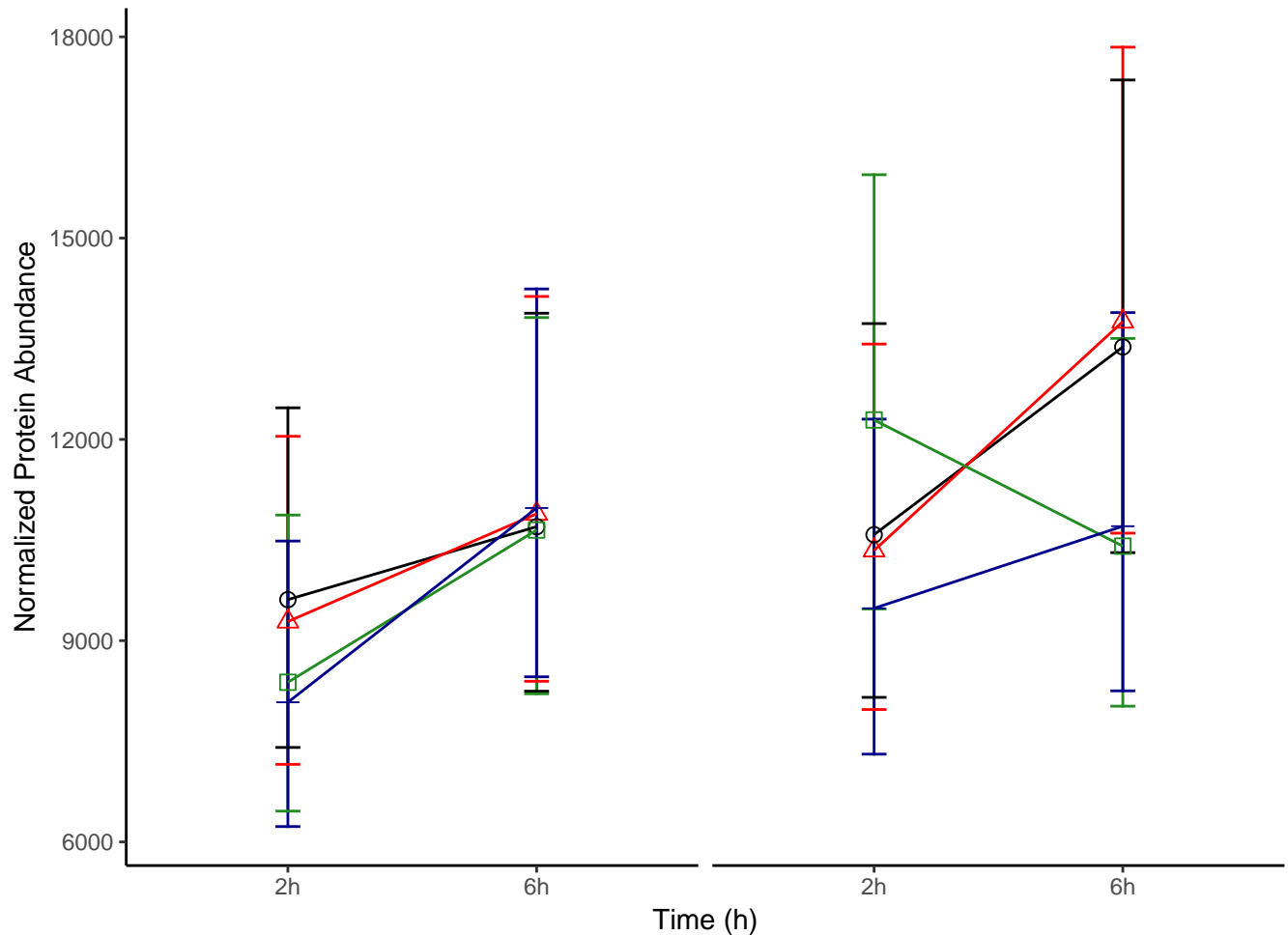


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DEOB\_STAAM

TSB

TSB-dex S-71

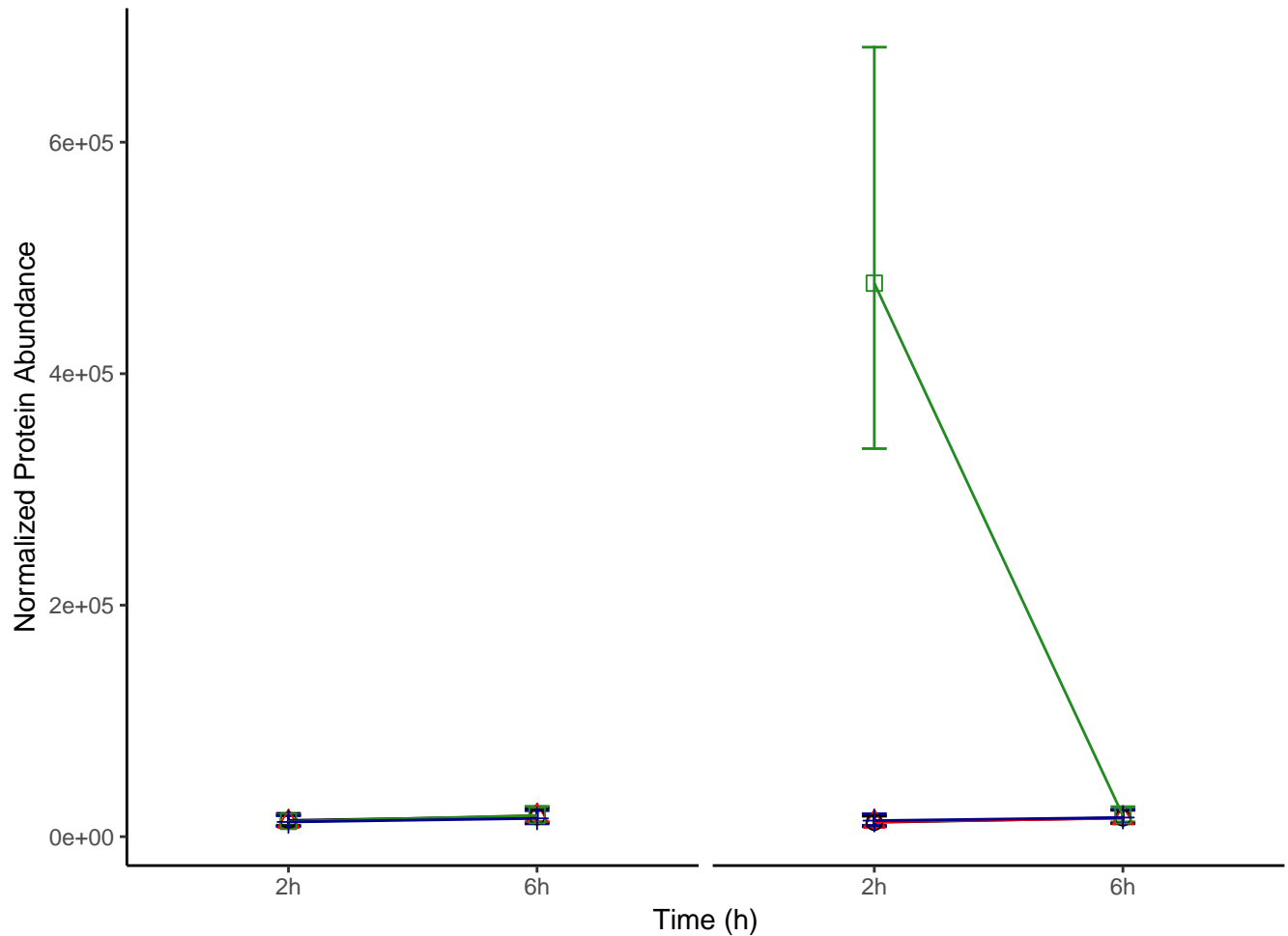


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DEOC1\_STAAM

TSB

TSB-dex S-72



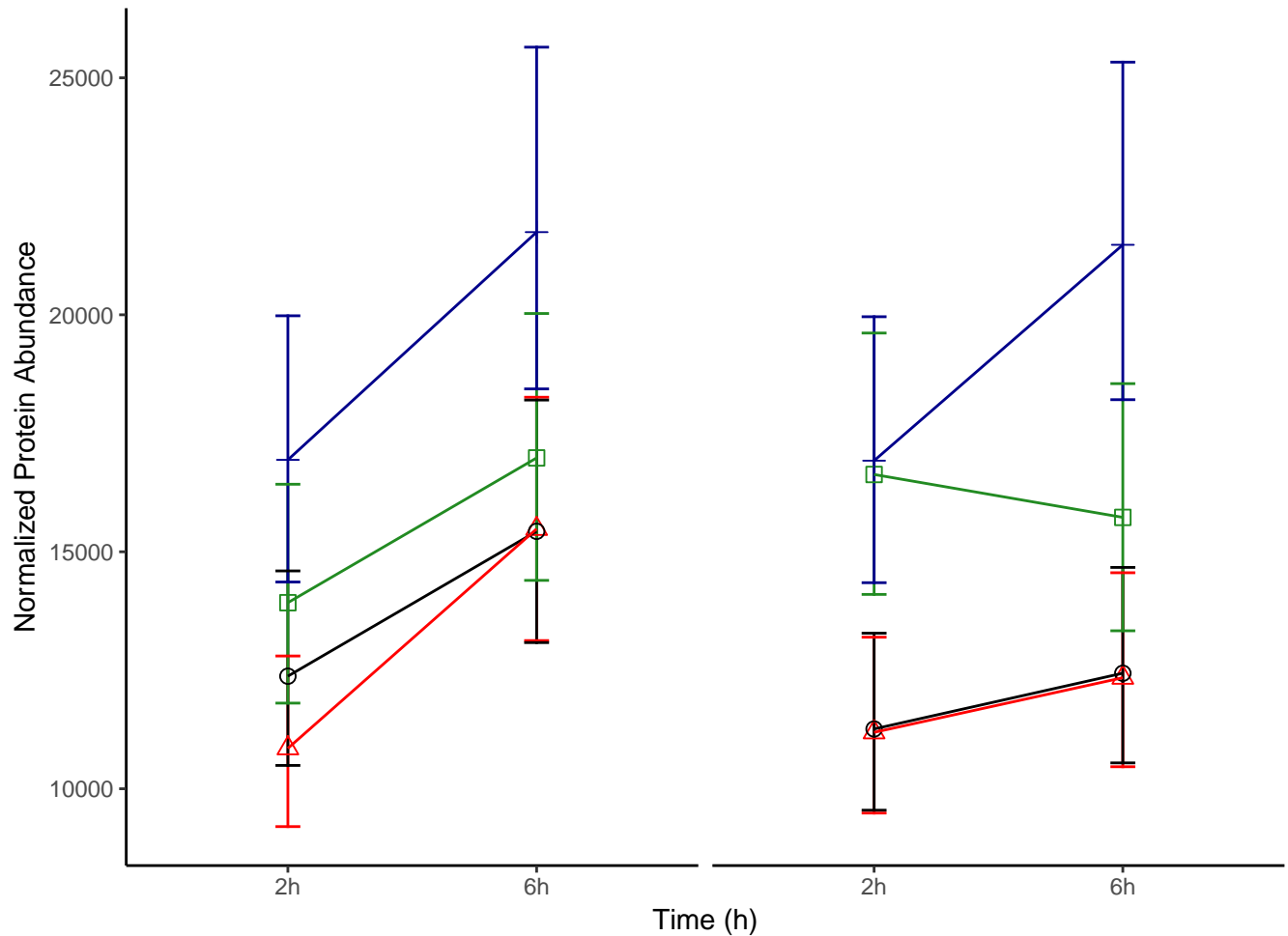
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# DEOC2\_STAAM

TSB

TSB-dex S-73

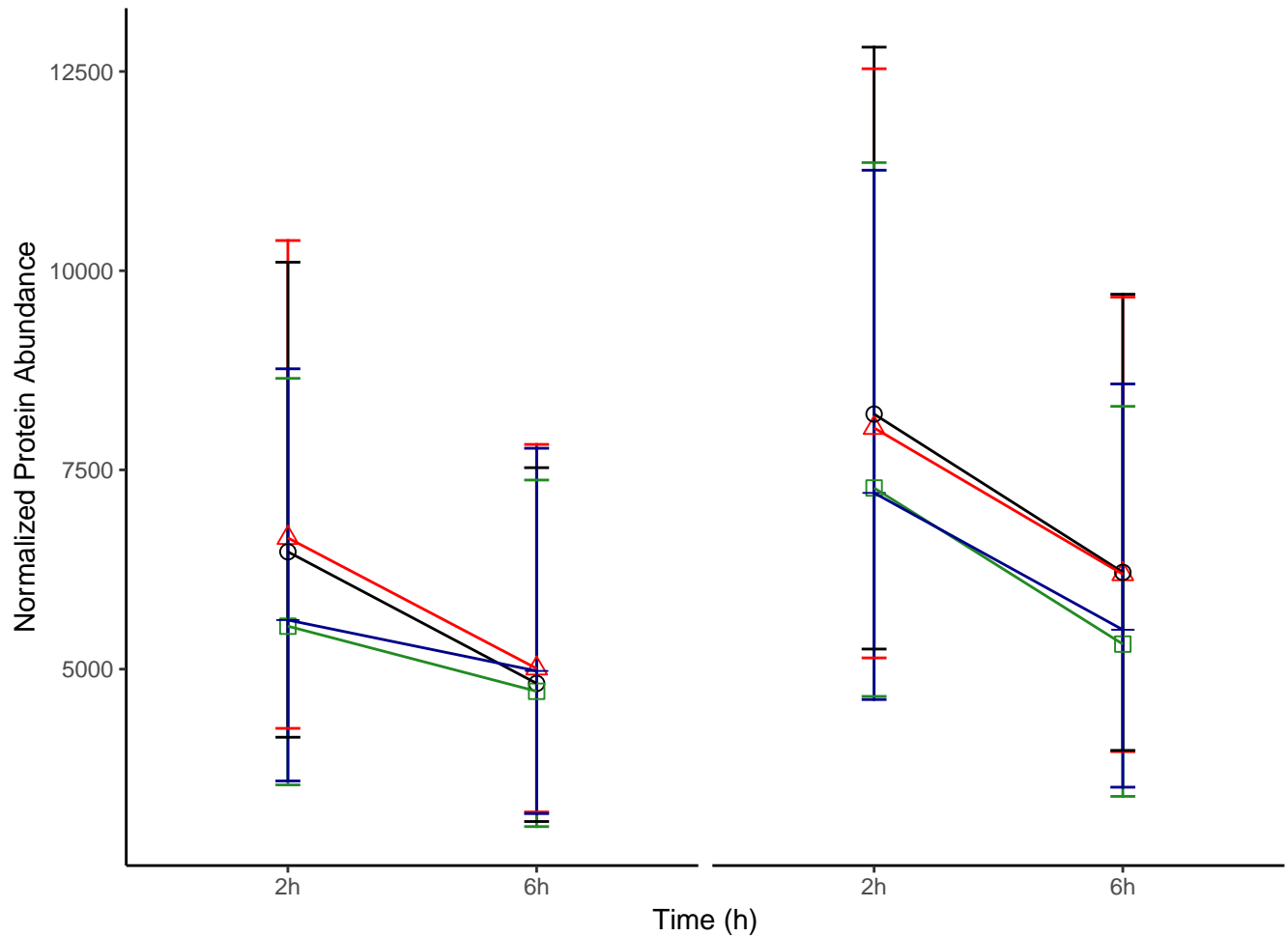


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# DER\_STAAM

TSB

TSB-dex S-74

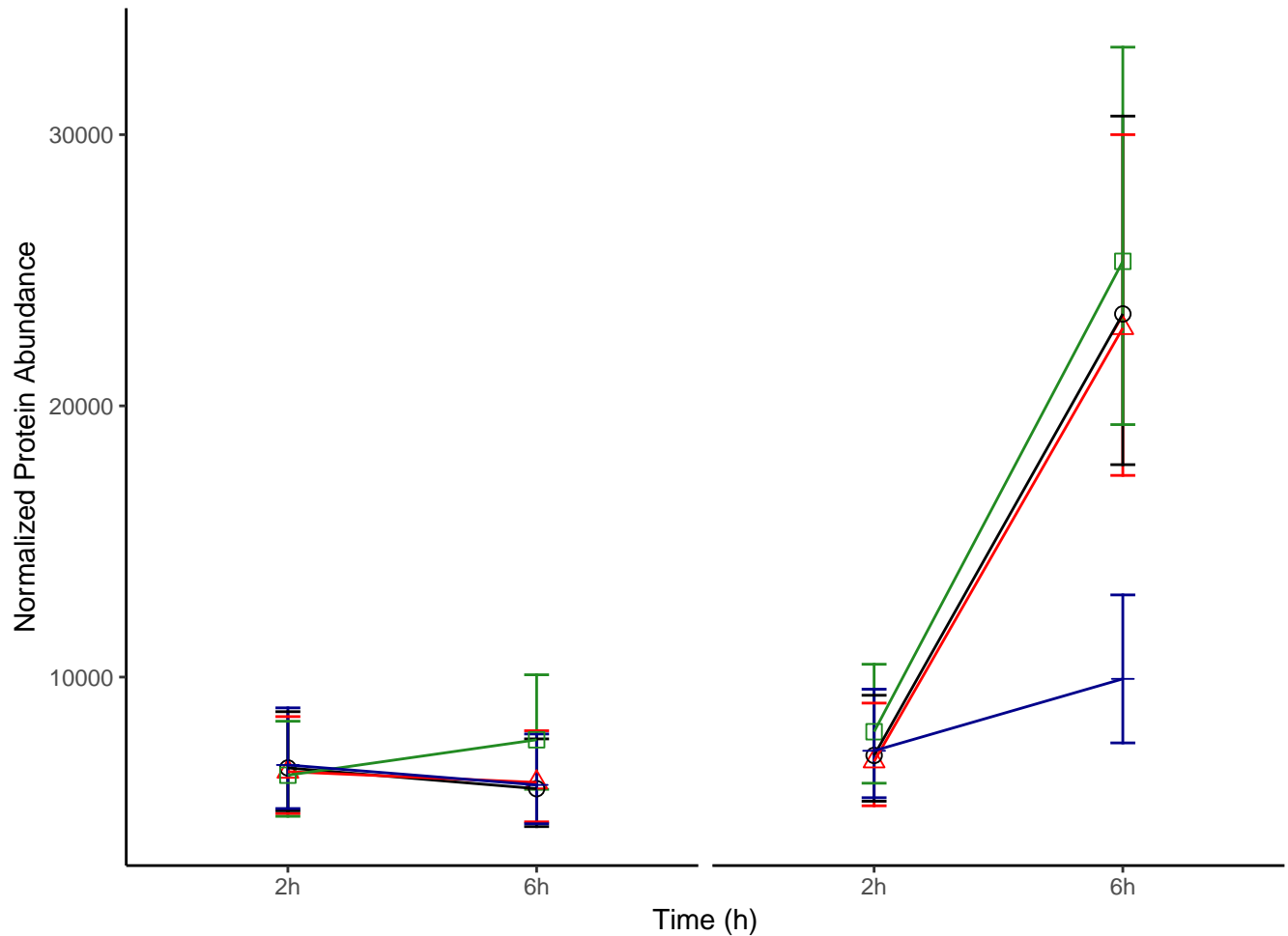


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- +

# DHA1\_STAAM

TSB

TSB-dex S-75

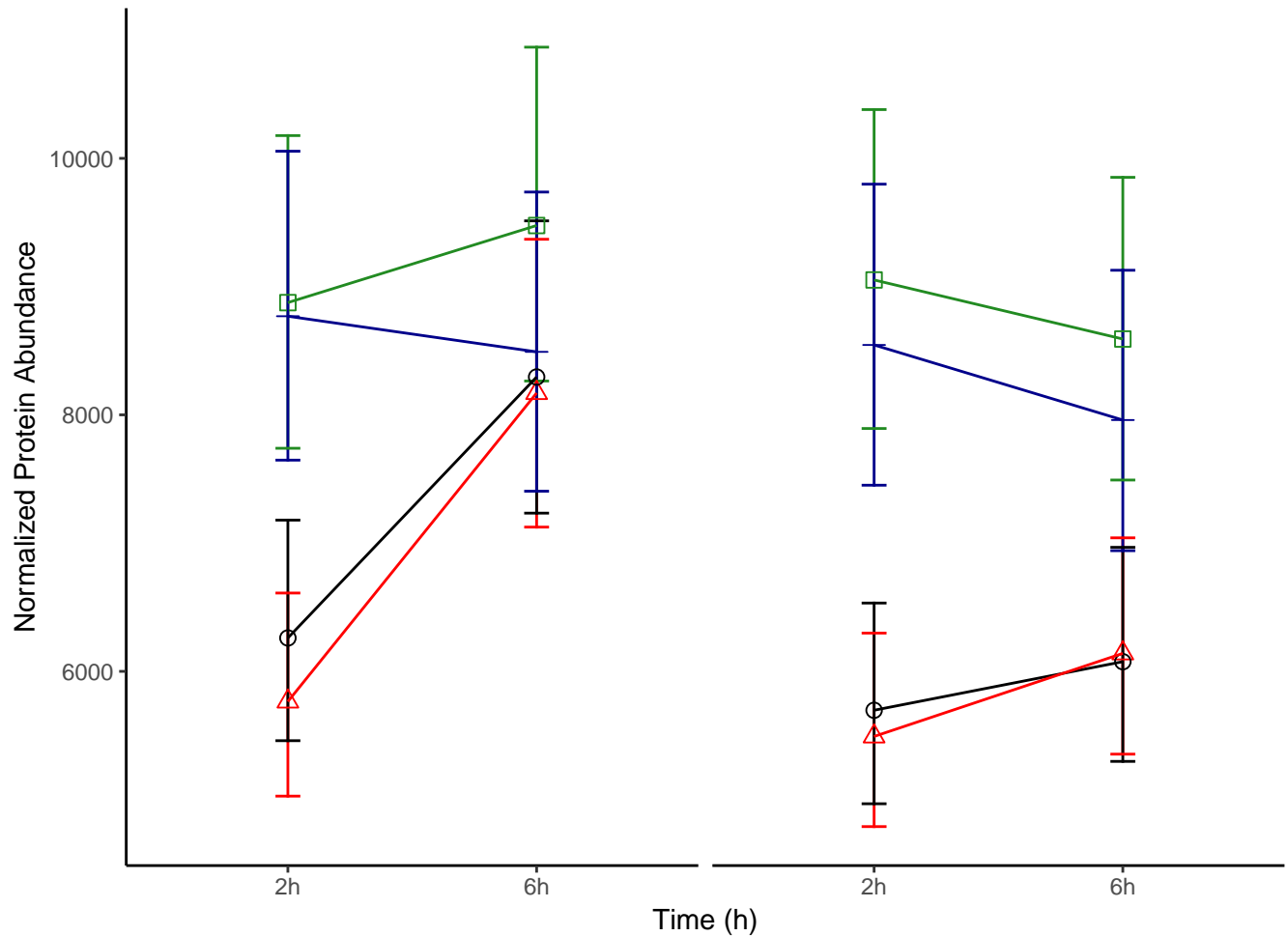


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DHA2\_STAAM

TSB

TSB-dex S-76

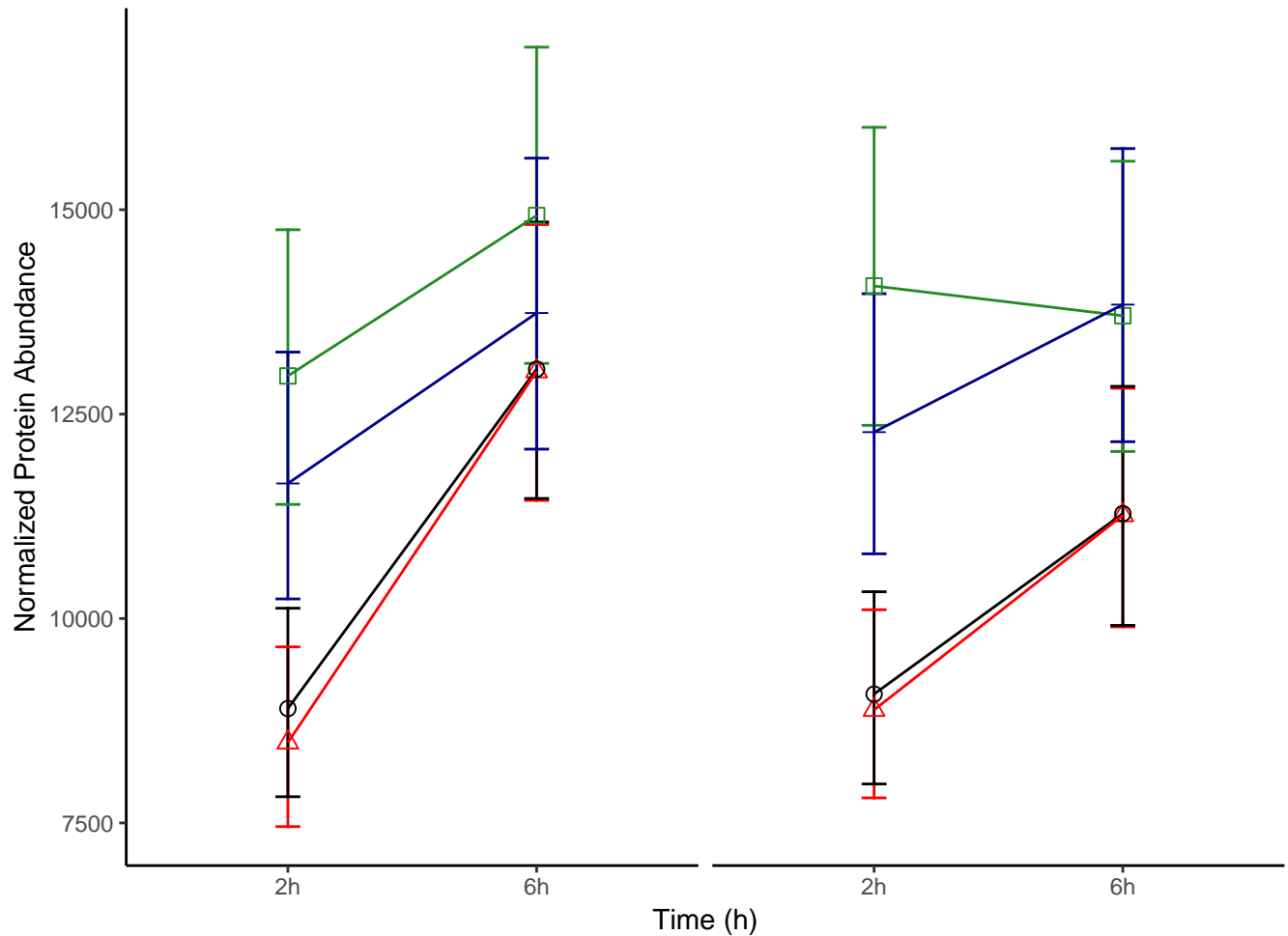


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DHE2\_STAAM

TSB

TSB-dex S-77

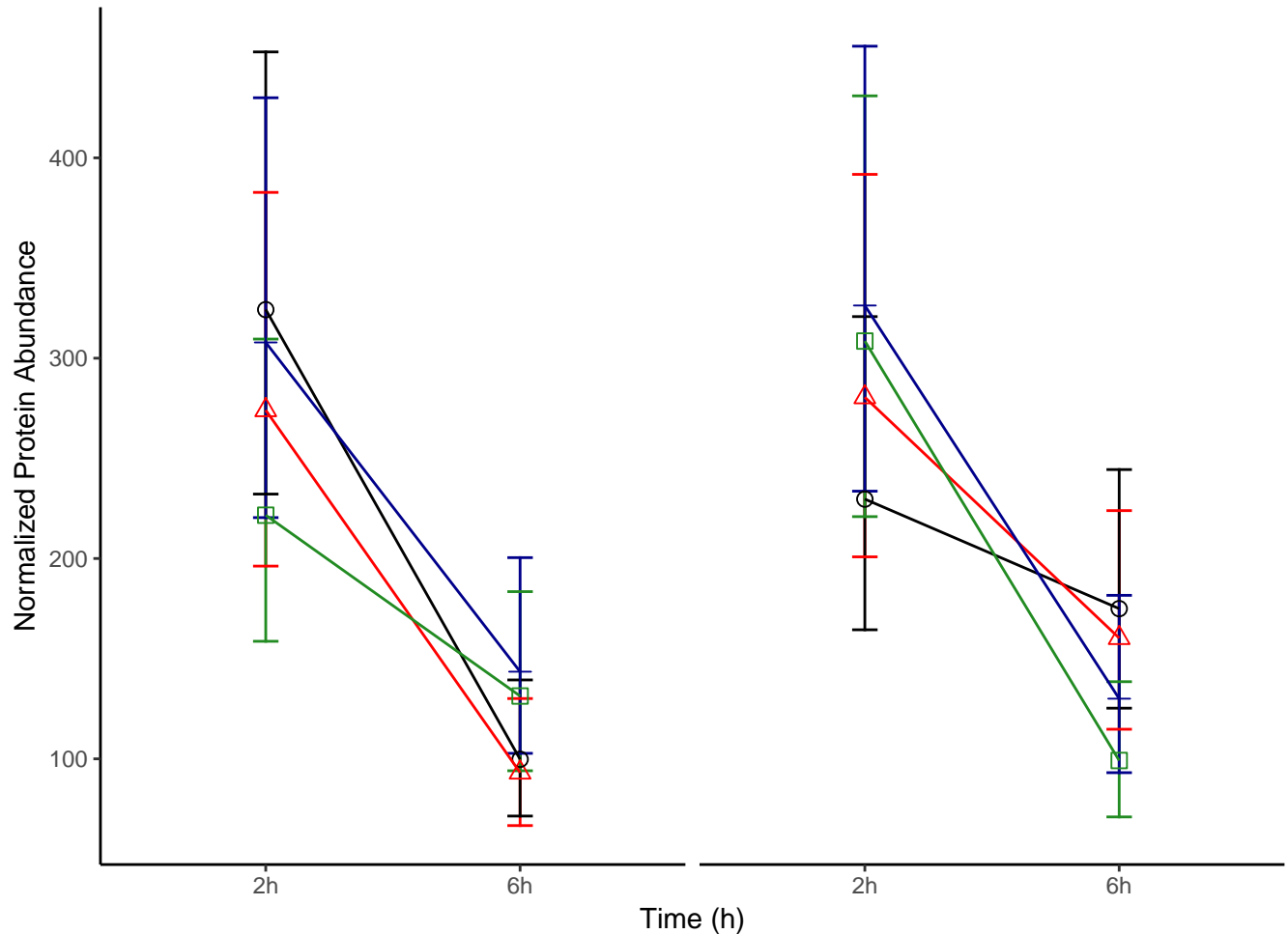


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DHPS\_STAAM

TSB

TSB-dex S-78

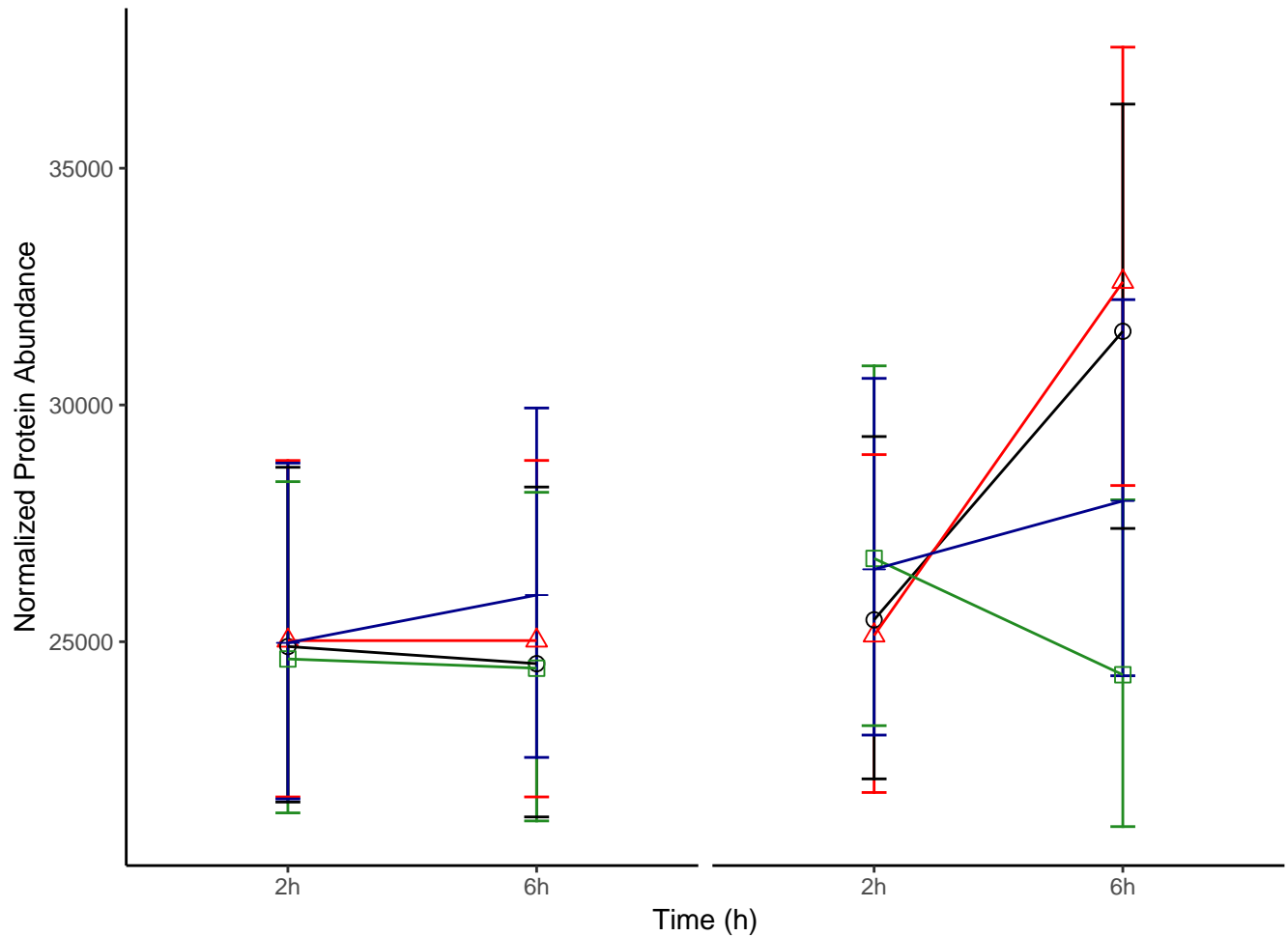


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DLDH\_STAAM

TSB

TSB-dex S-79

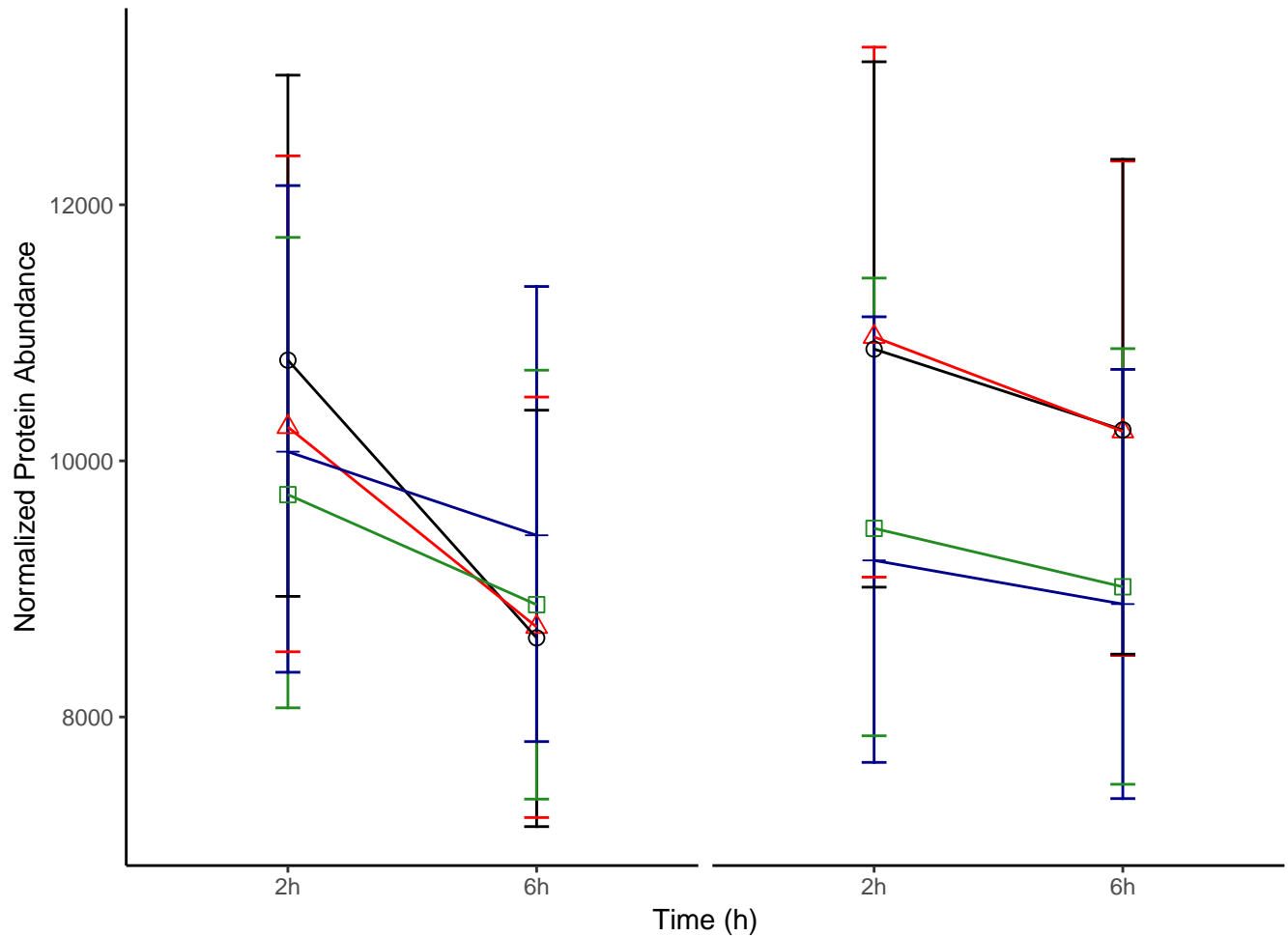


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

## DLTA\_STAAM

TSB

TSB-dex S-80



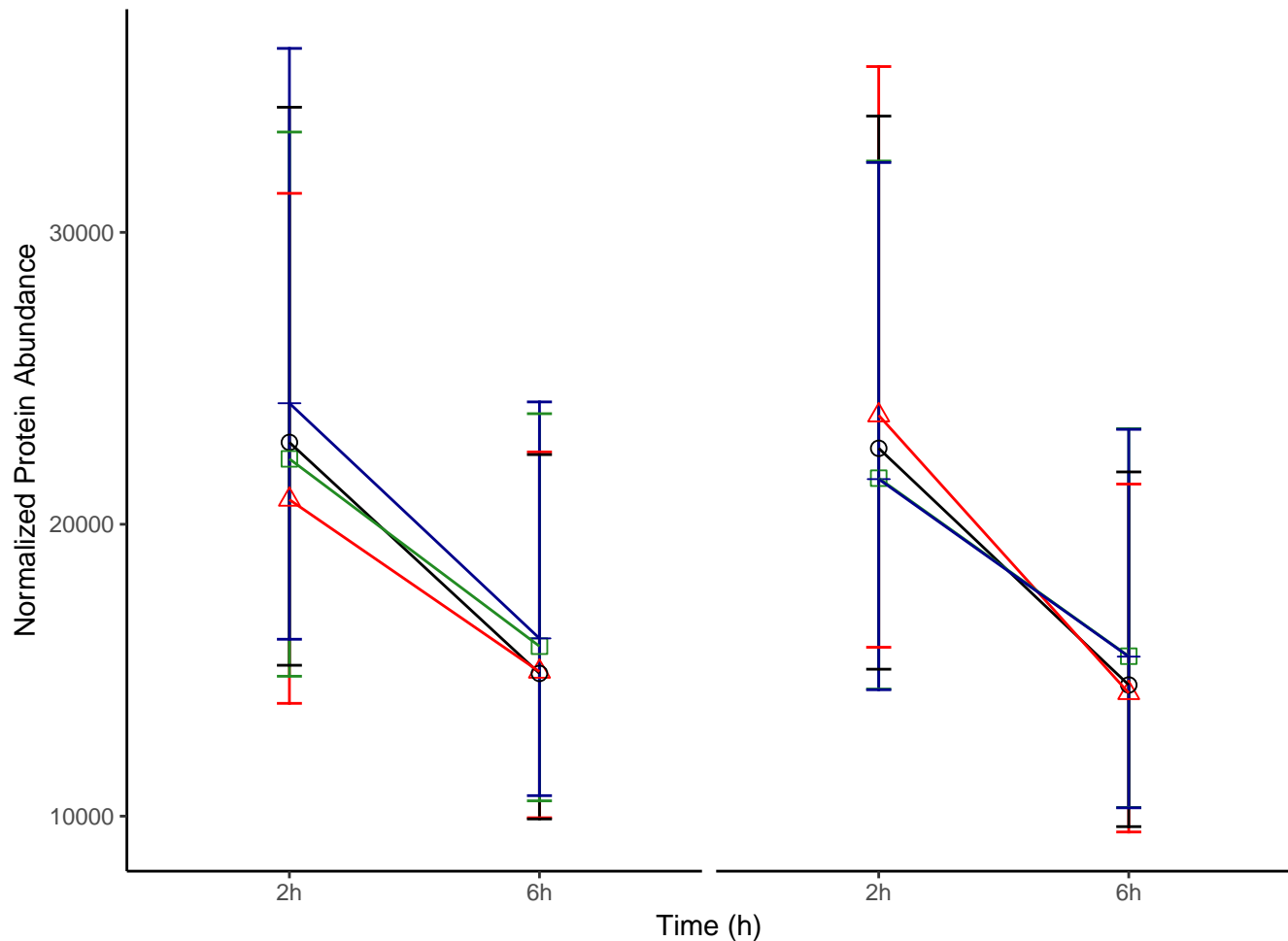
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# DLTC\_STAAM

TSB

TSB-dex S-81

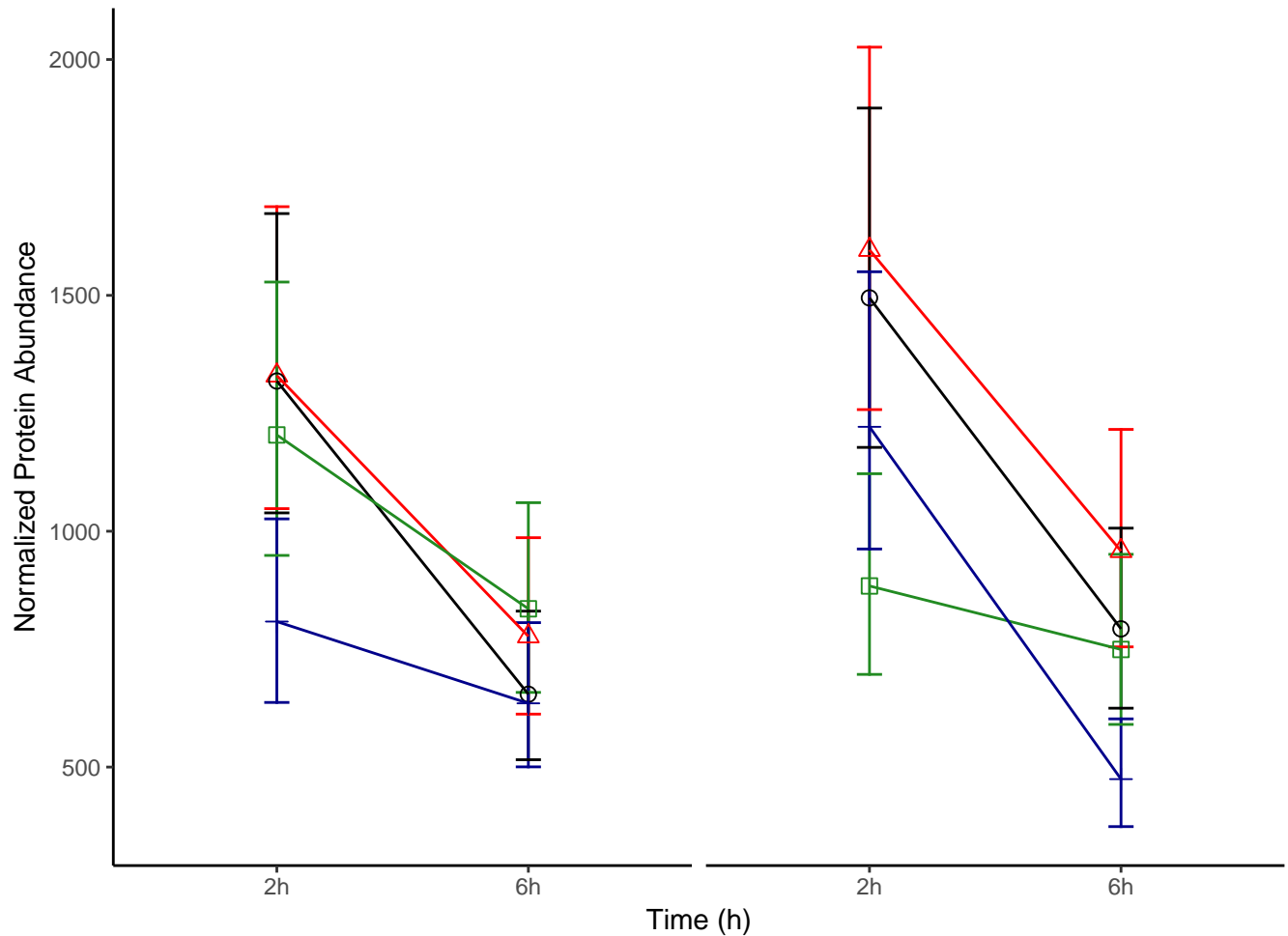


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DNAA\_STAAM

TSB

TSB-dex S-82

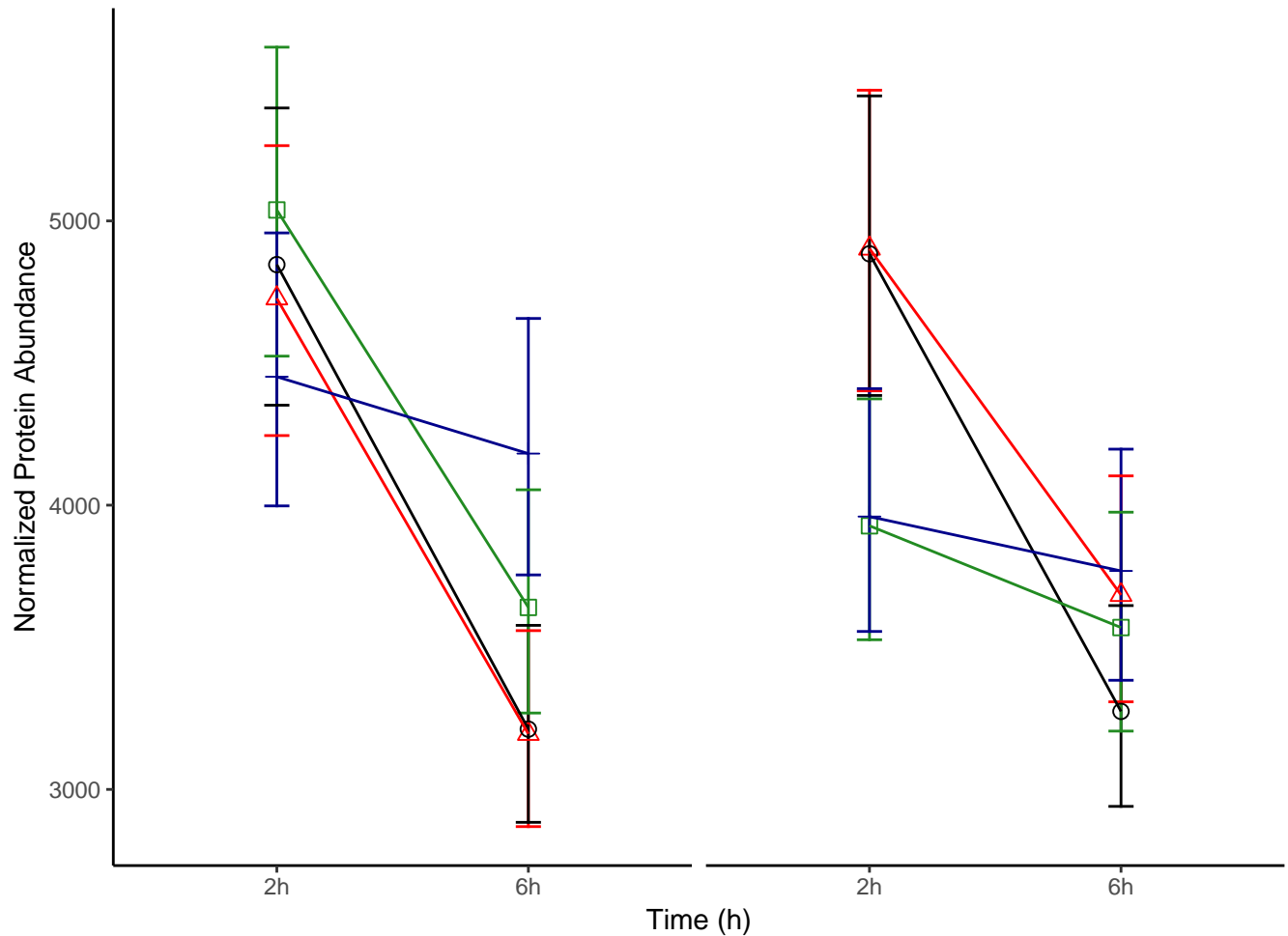


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNAG\_STAAM

TSB

TSB-dex S-83

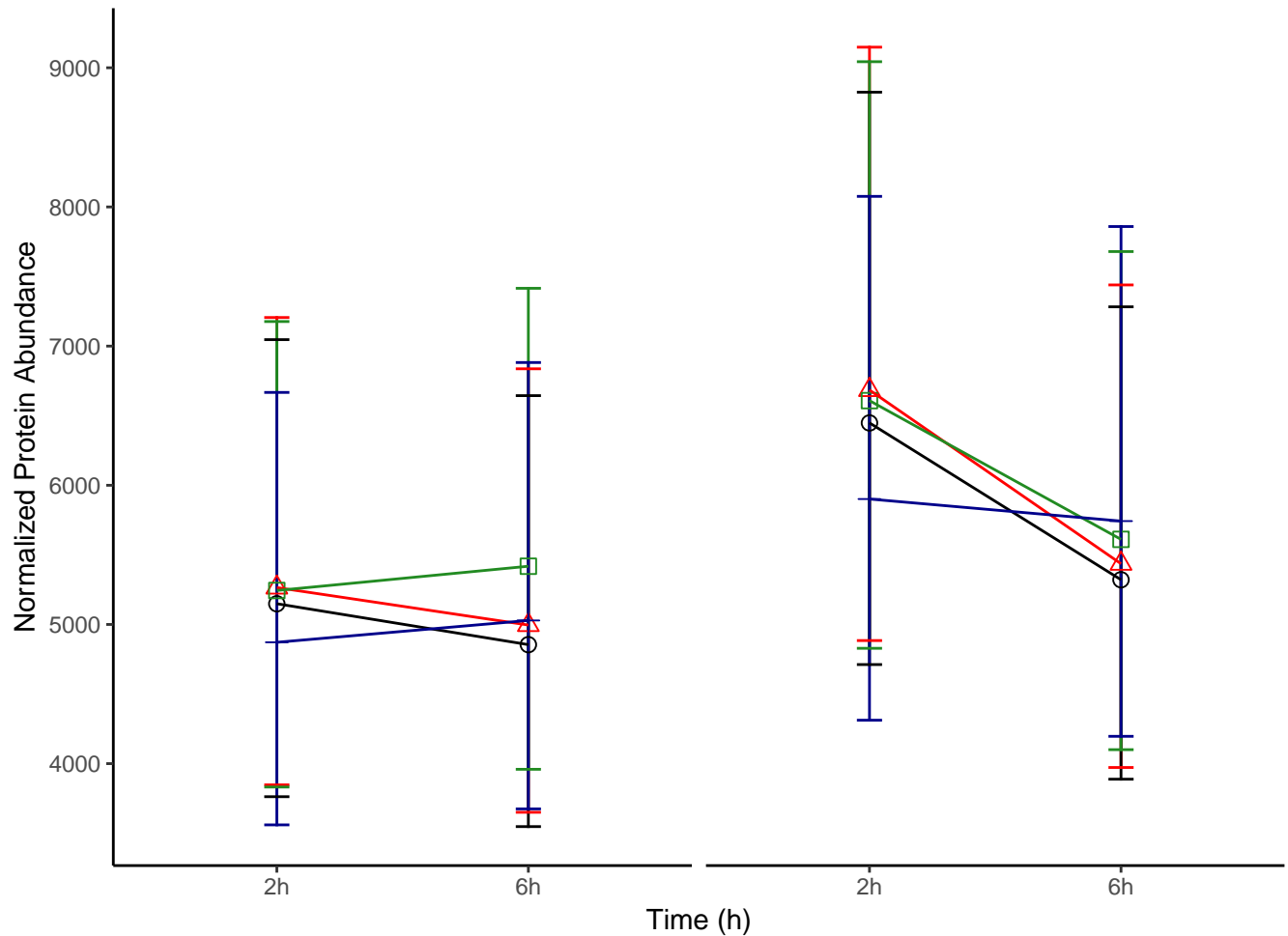


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DNAJ\_STAAM

TSB

TSB-dex S-84

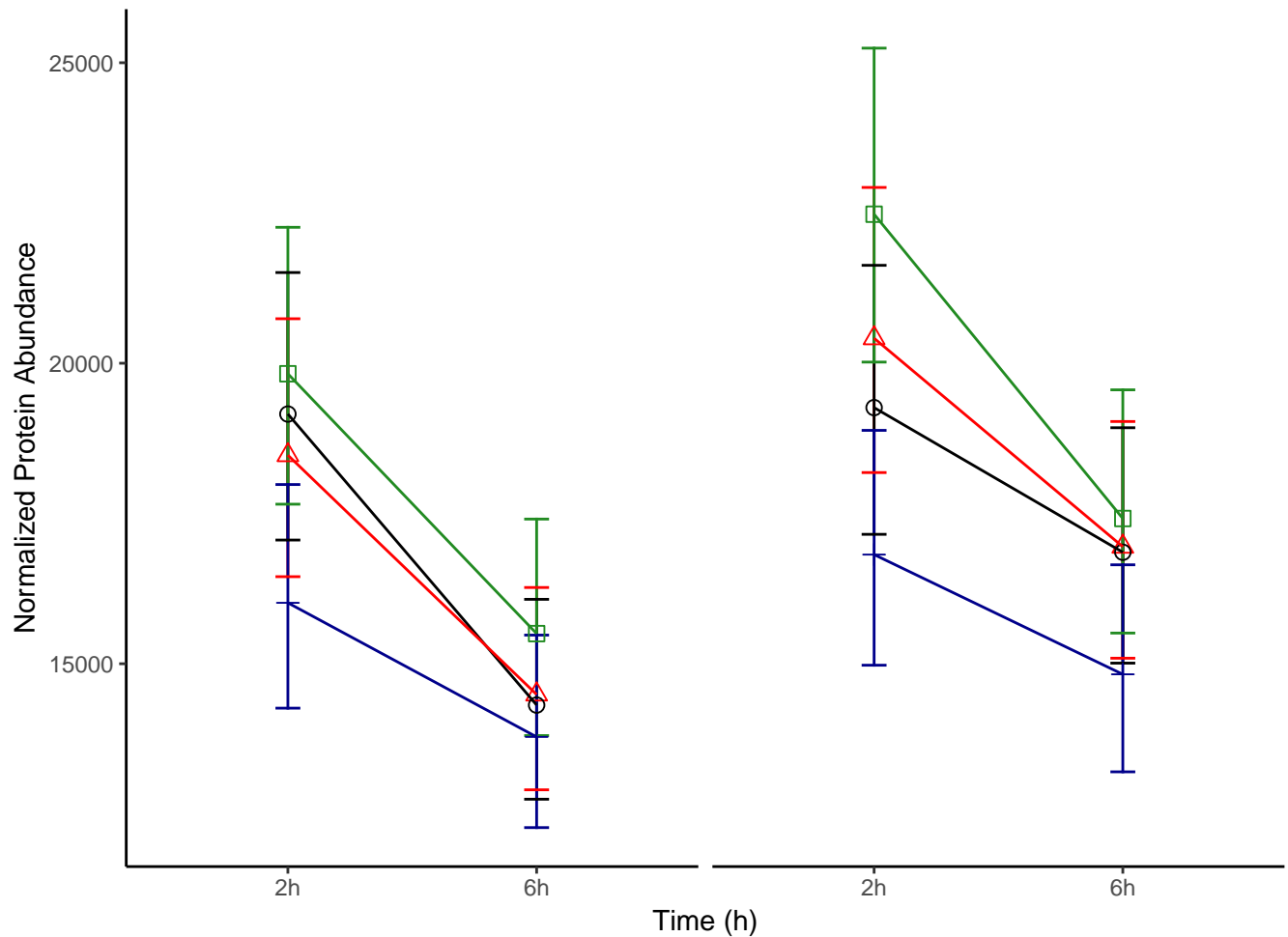


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DNAK\_STAAM

TSB

TSB-dex S-85

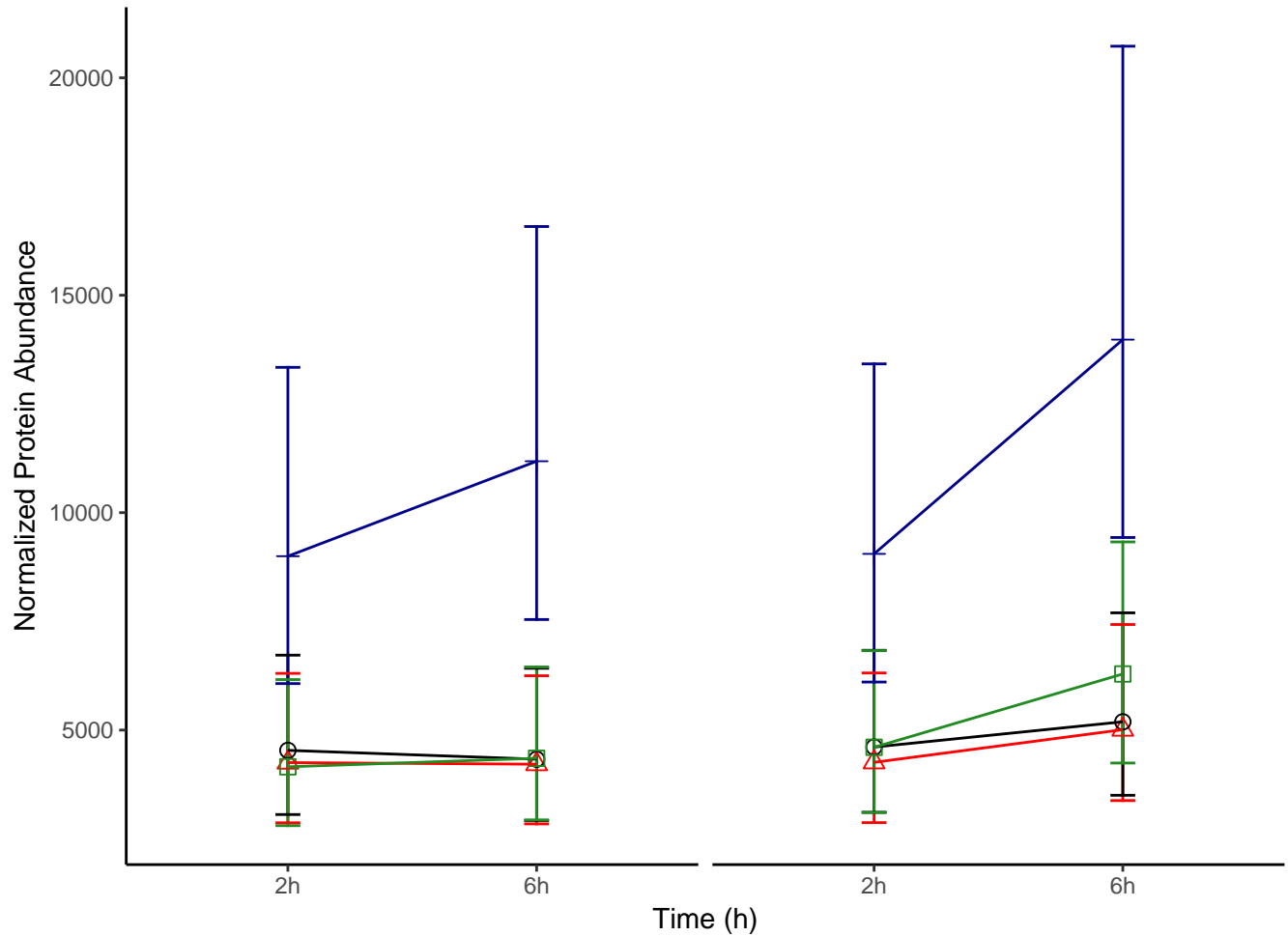


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNLJ\_STAAM

TSB

TSB-dex S-86

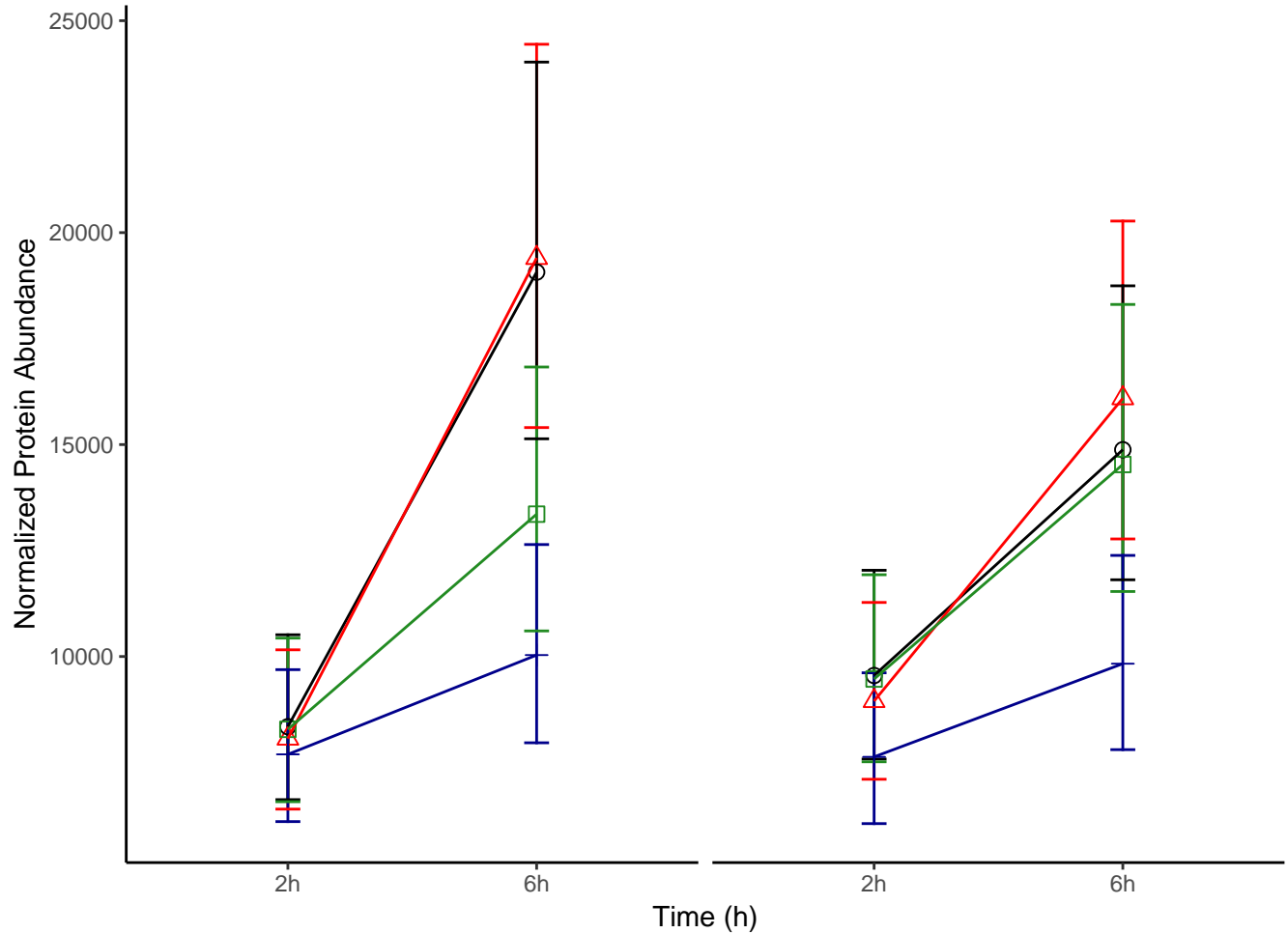


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DPO3B\_STAAM

TSB

TSB-dex S-87

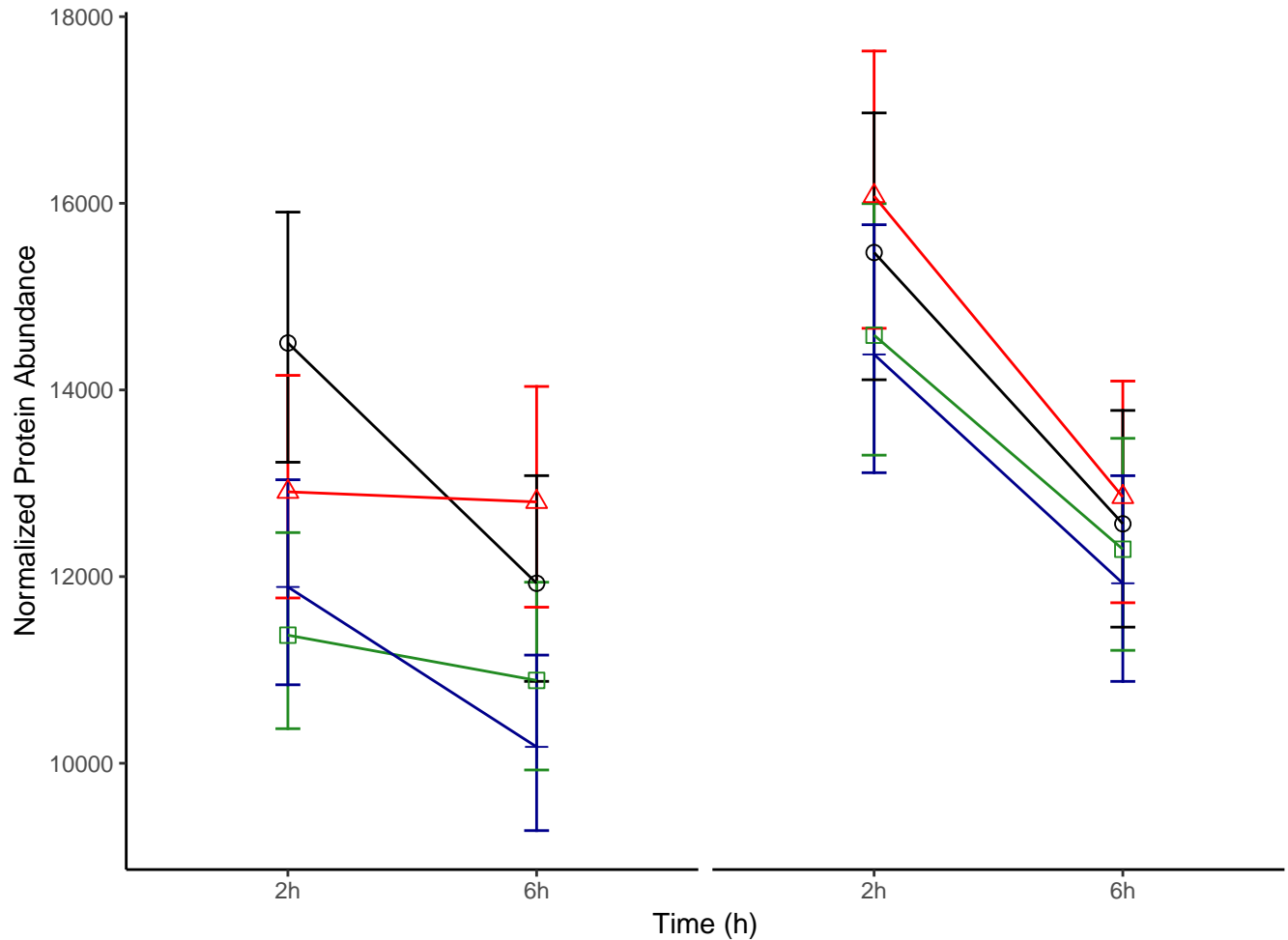


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DPO4\_STAAM

TSB

TSB-dex S-88



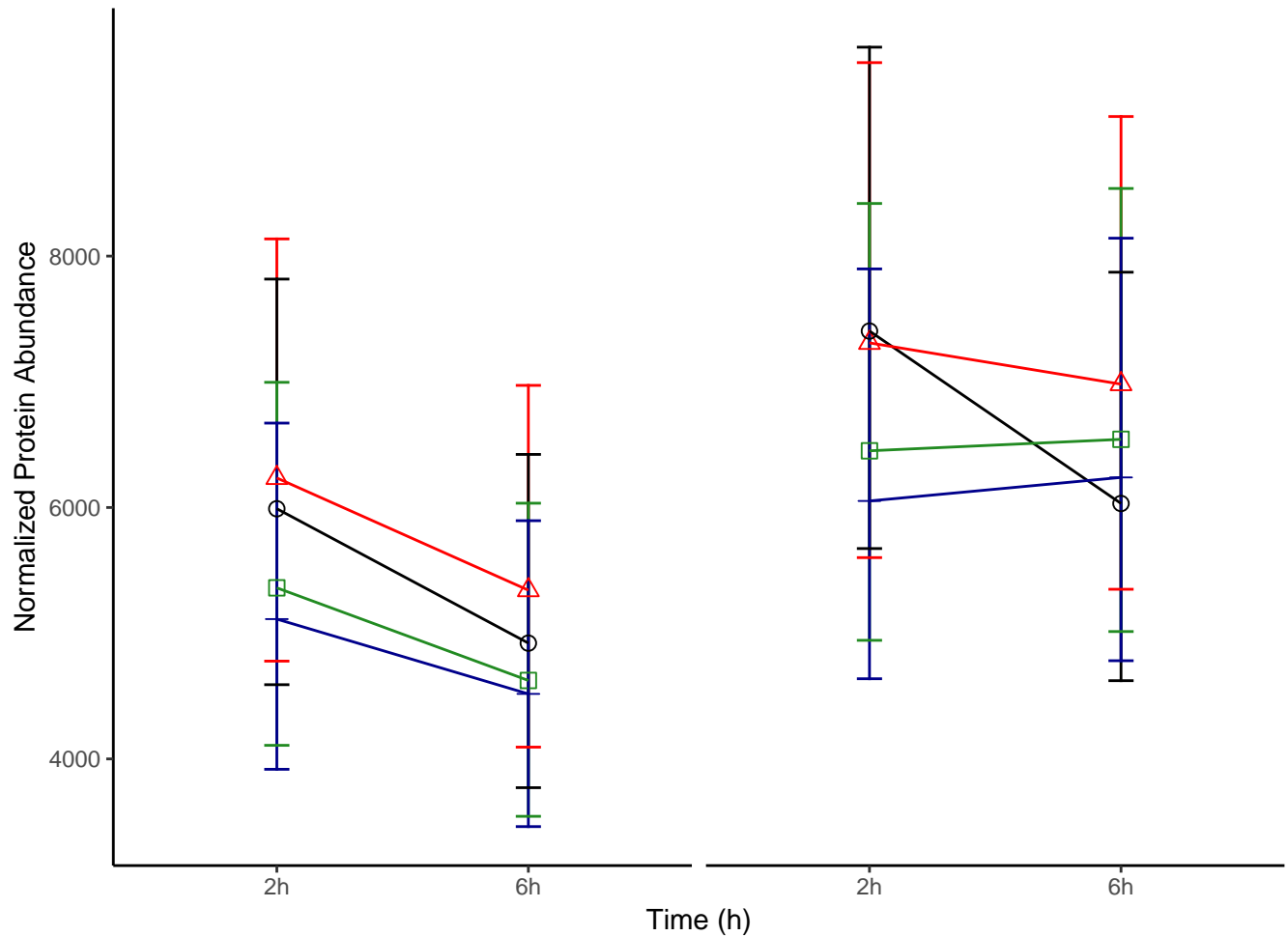
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# DTD\_STAAM

TSB

TSB-dex S-89

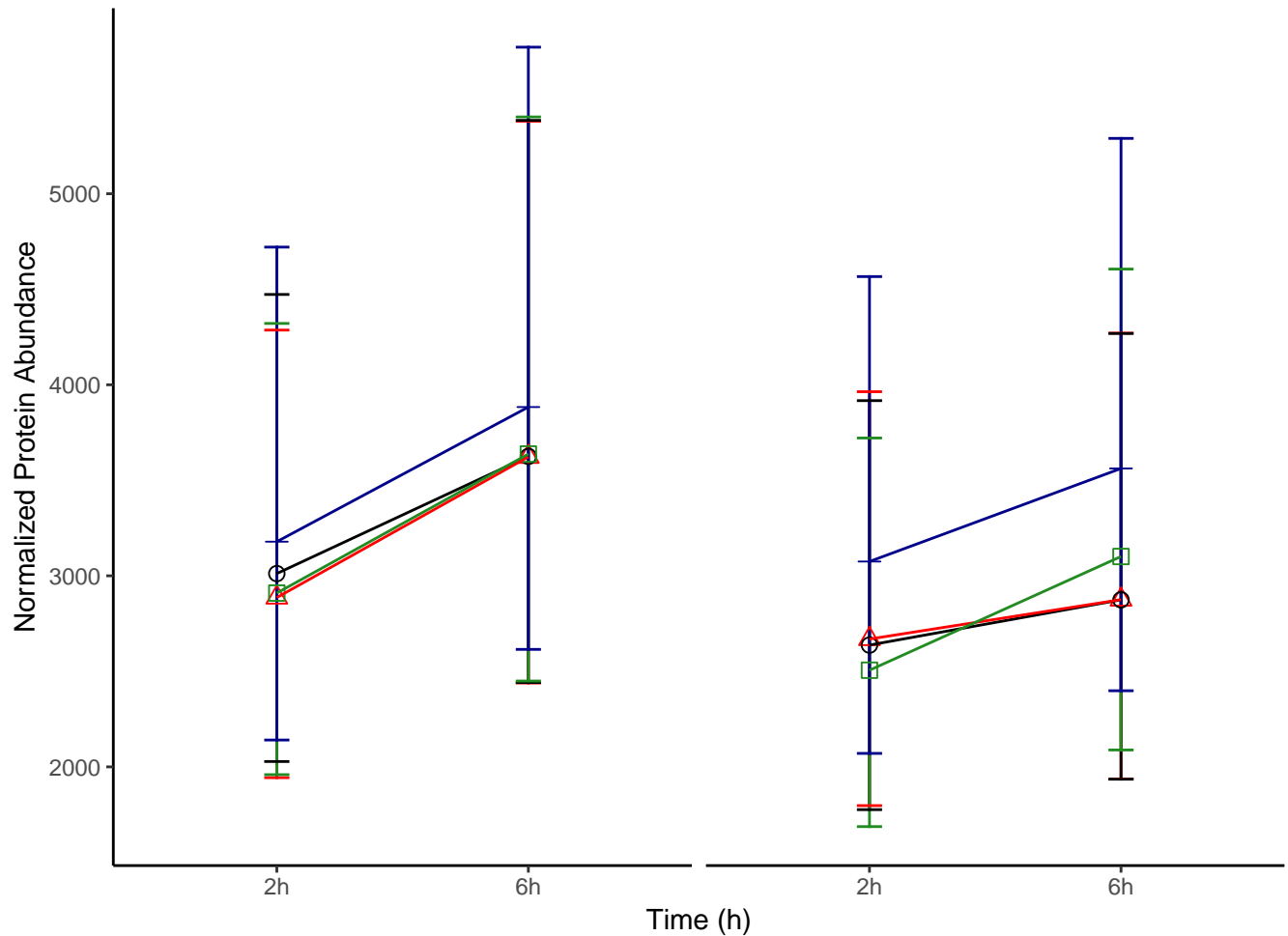


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DYR\_STAAM

TSB

TSB-dex S-90

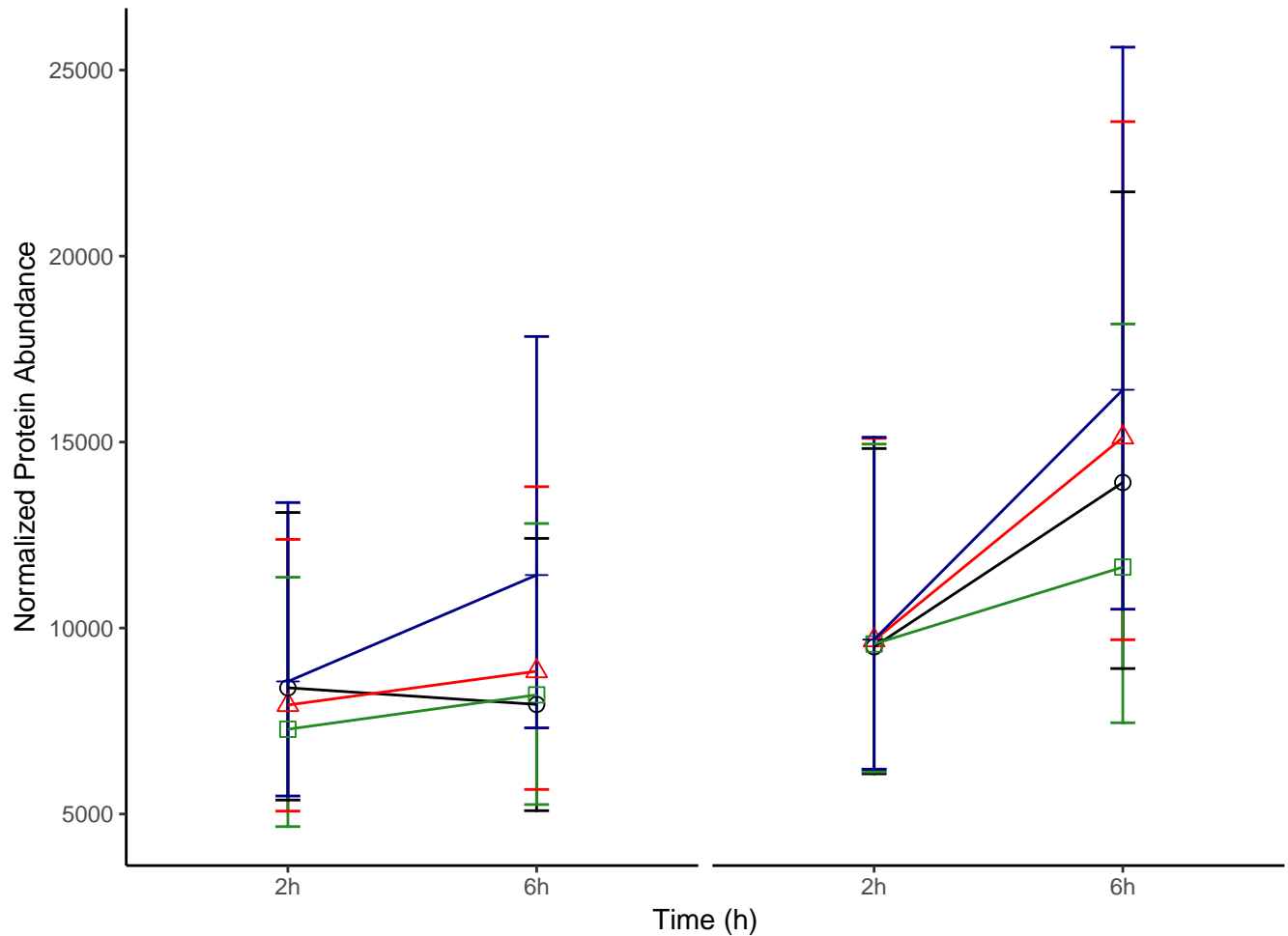


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EBPS\_STAAM

TSB

TSB-dex S-91

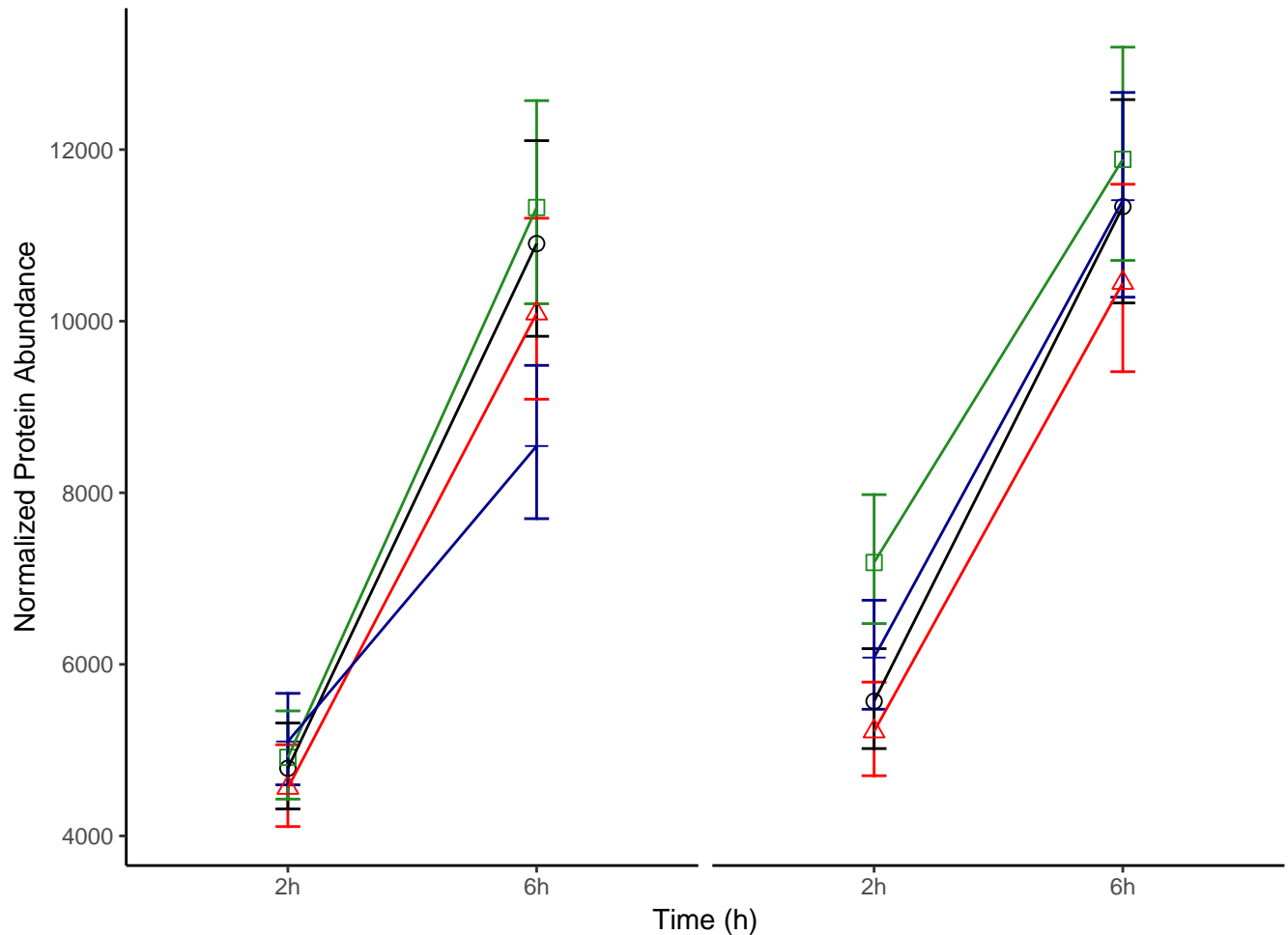


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ECFA1\_STAAM

TSB

TSB-dex S-92

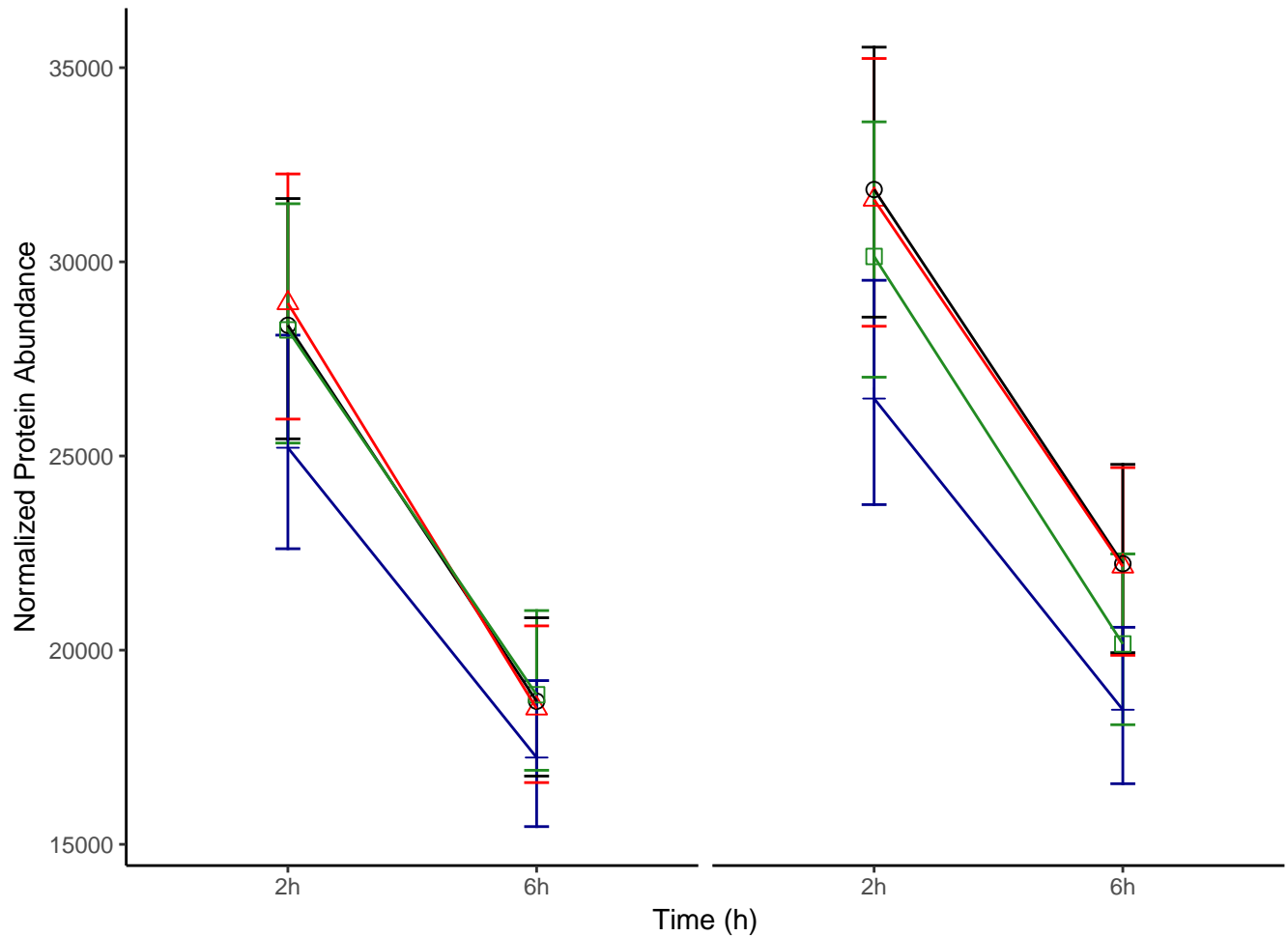


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EFG\_STAAM

TSB

TSB-dex S-93

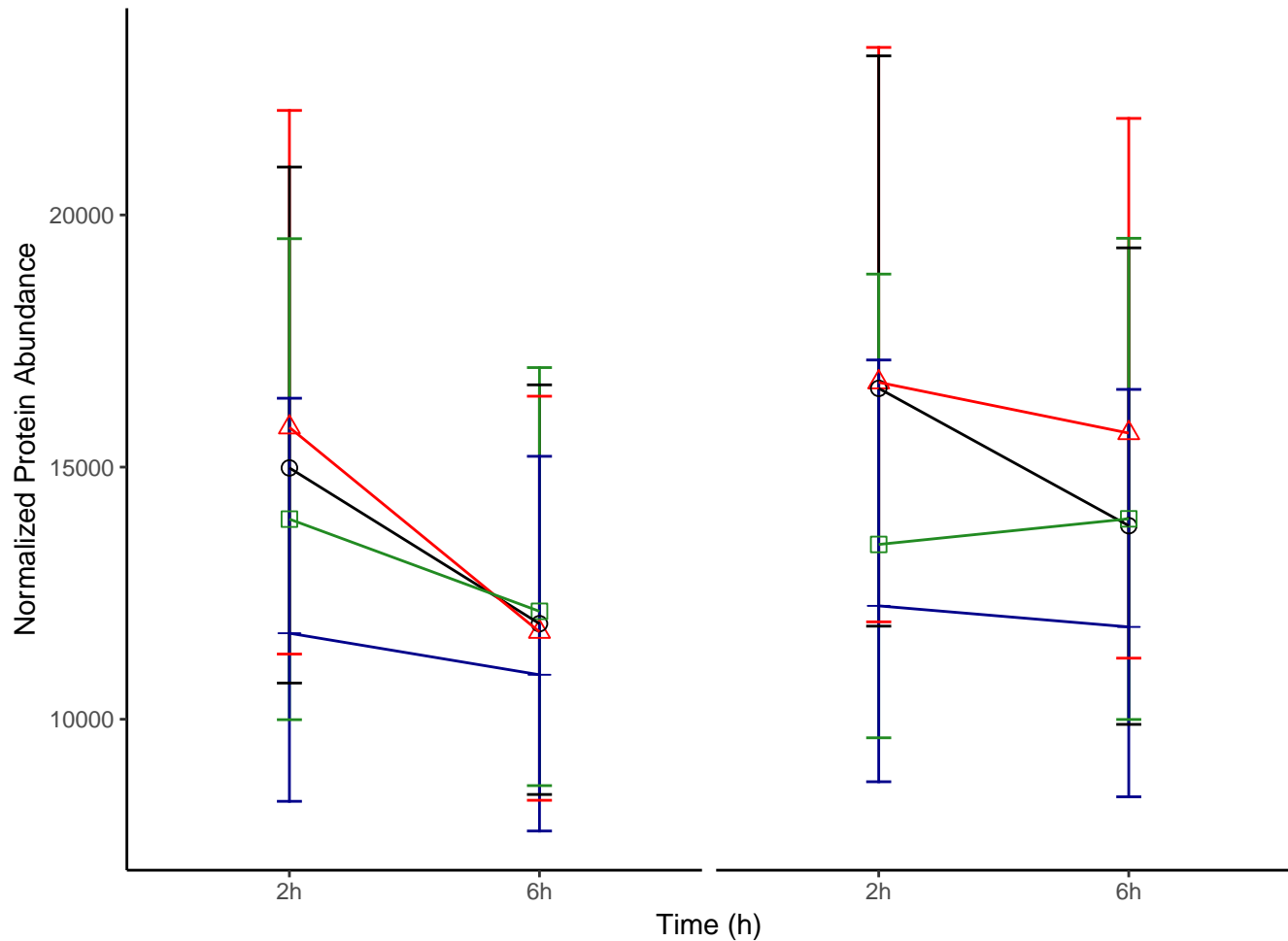


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## EFP\_STAAM

TSB

TSB-dex S-94

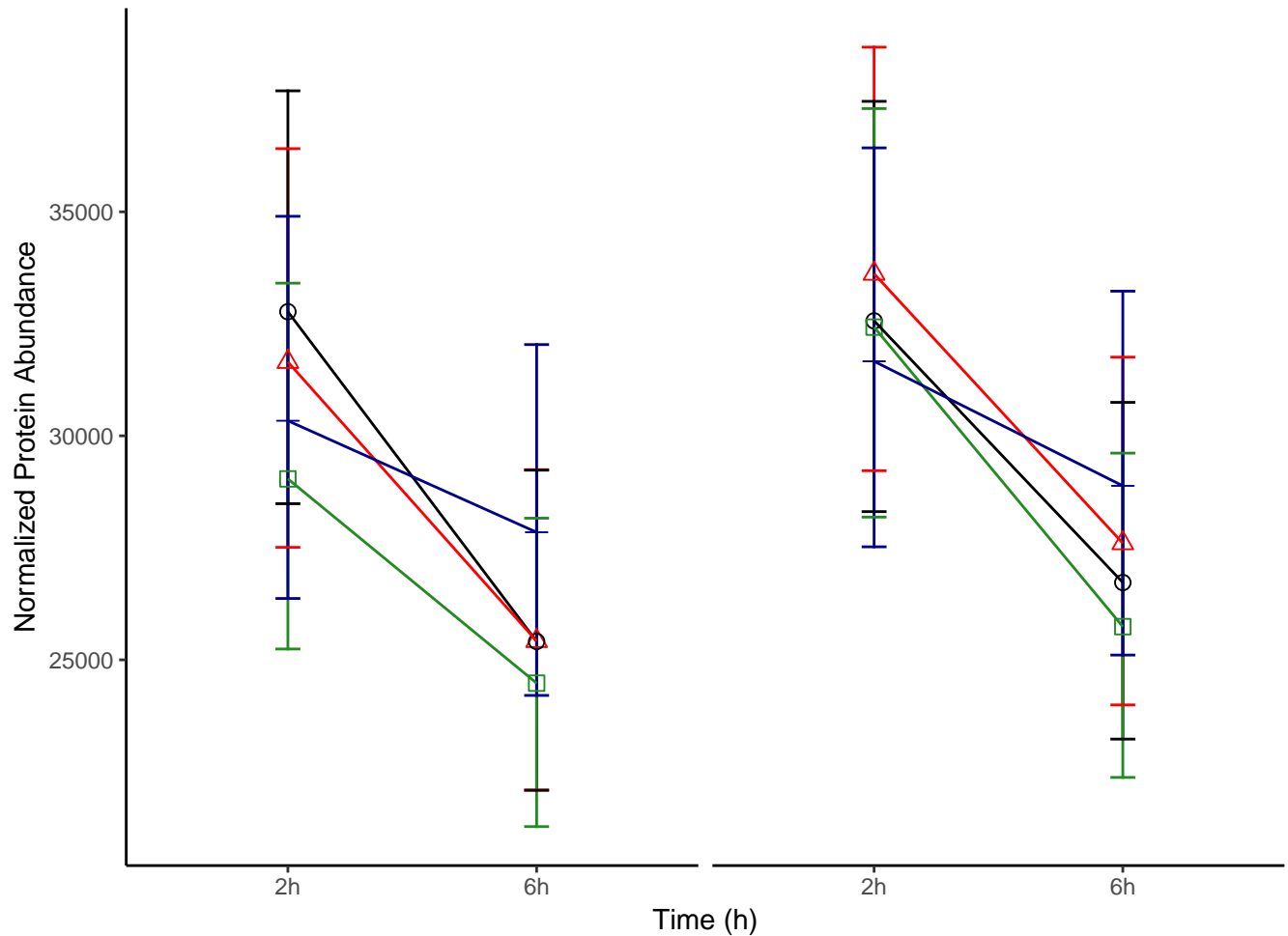


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# EFTS\_STAAM

TSB

TSB-dex S-95

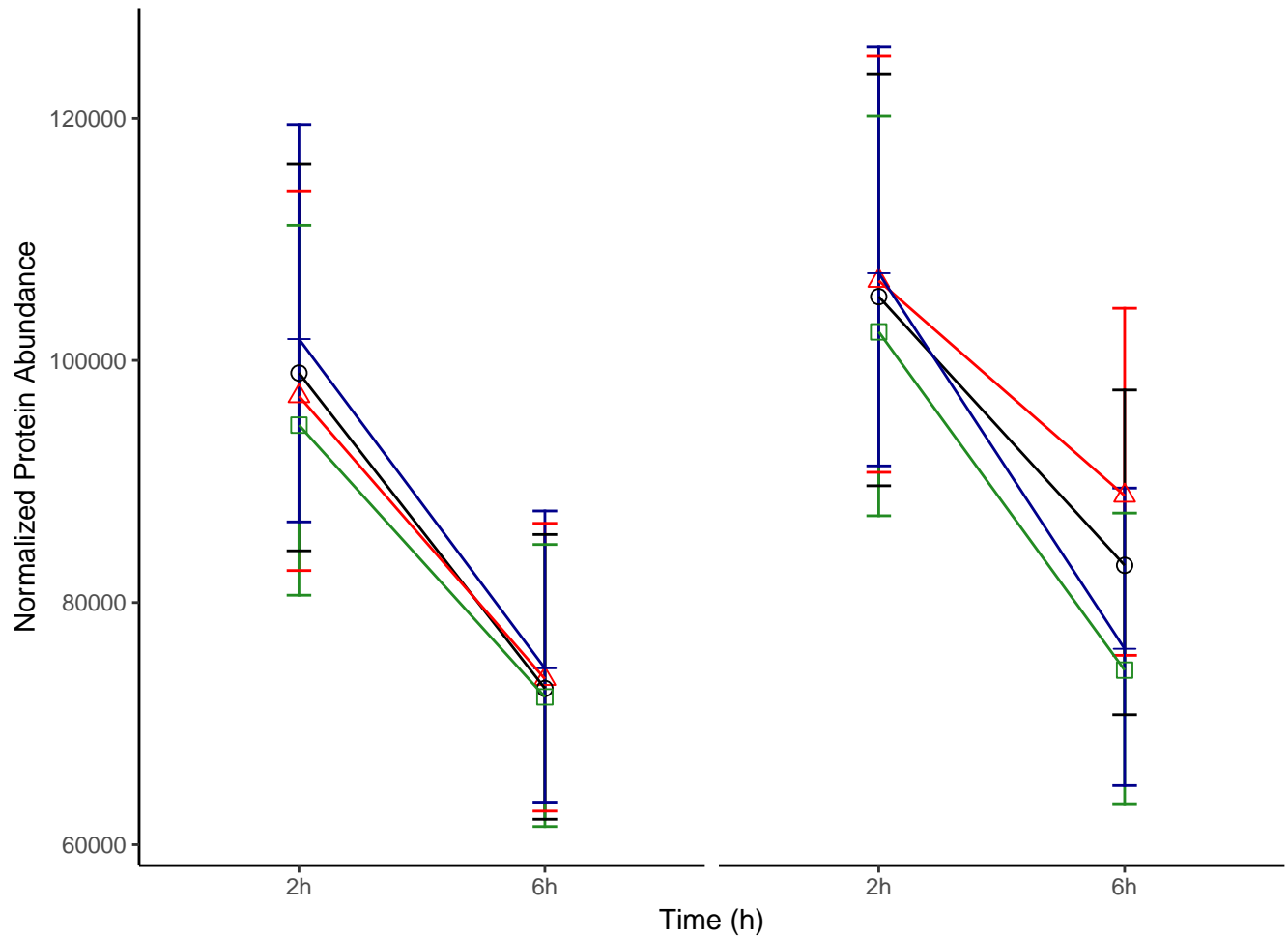


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EFTU\_STAAM

TSB

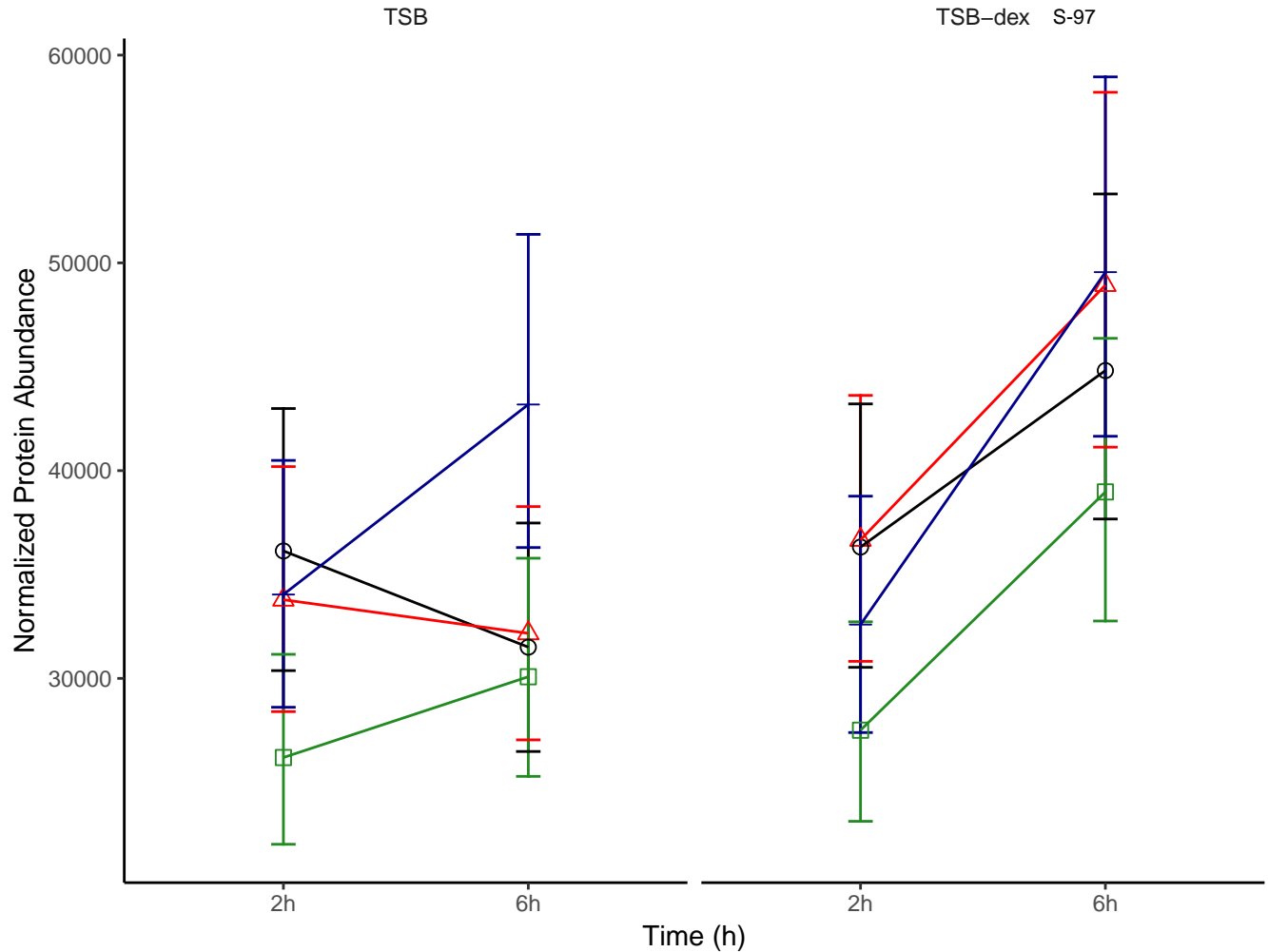
TSB-dex S-96



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ENO\_STAAM

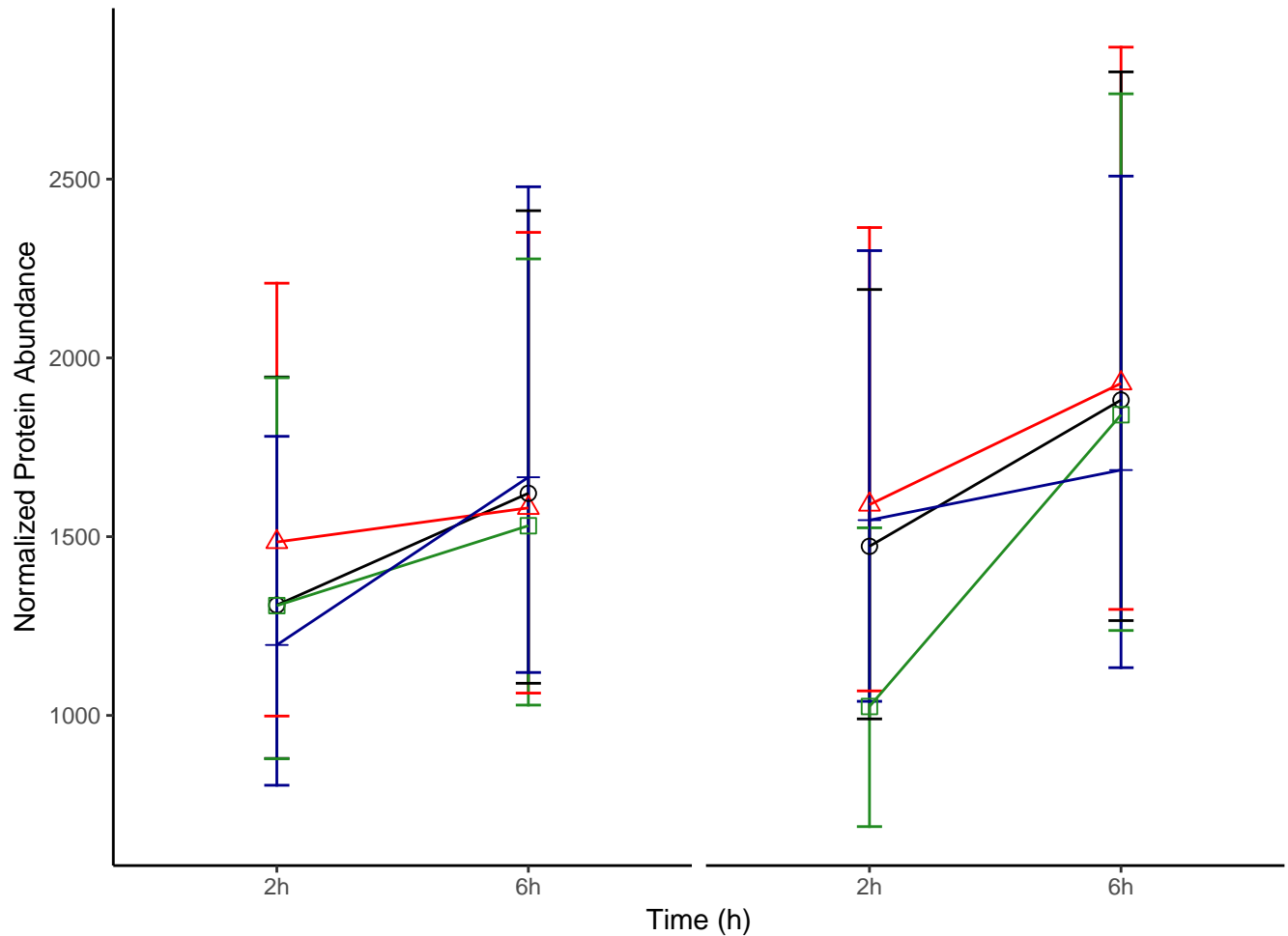


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ERA\_STAAM

TSB

TSB-dex S-98

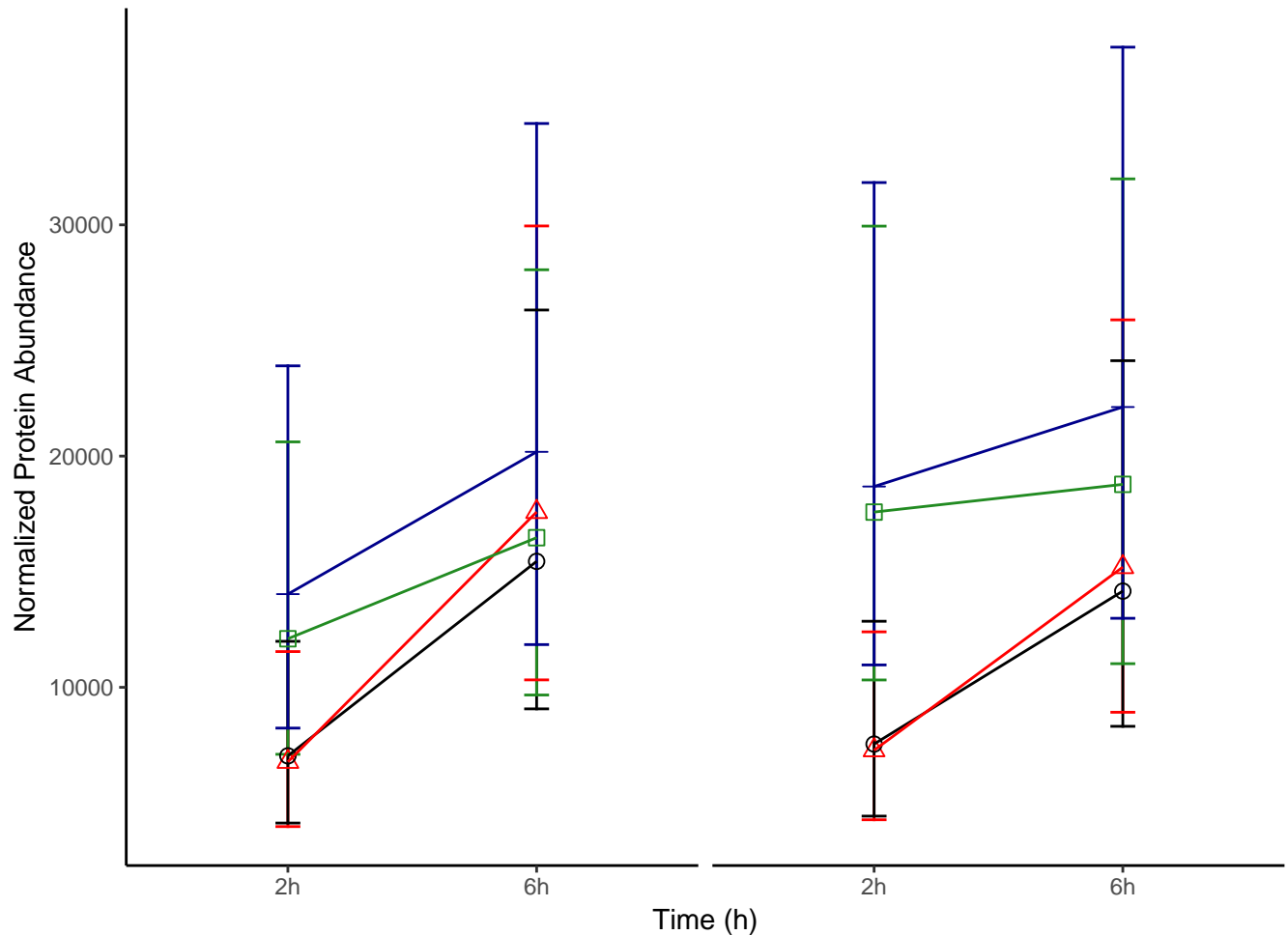


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ERMA\_STAAM

TSB

TSB-dex S-99

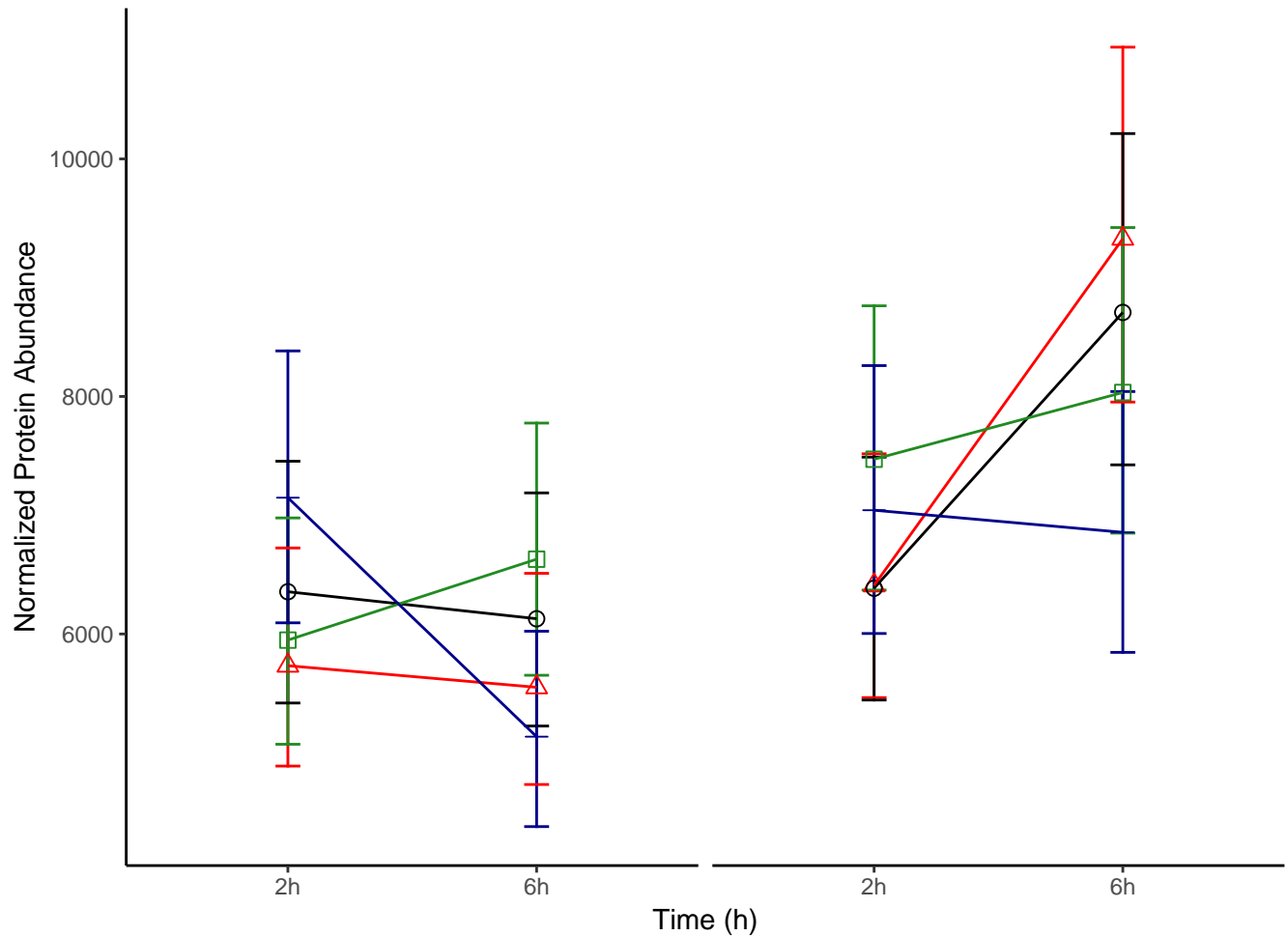


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ESSA\_STAAM

TSB

TSB-dex S-100

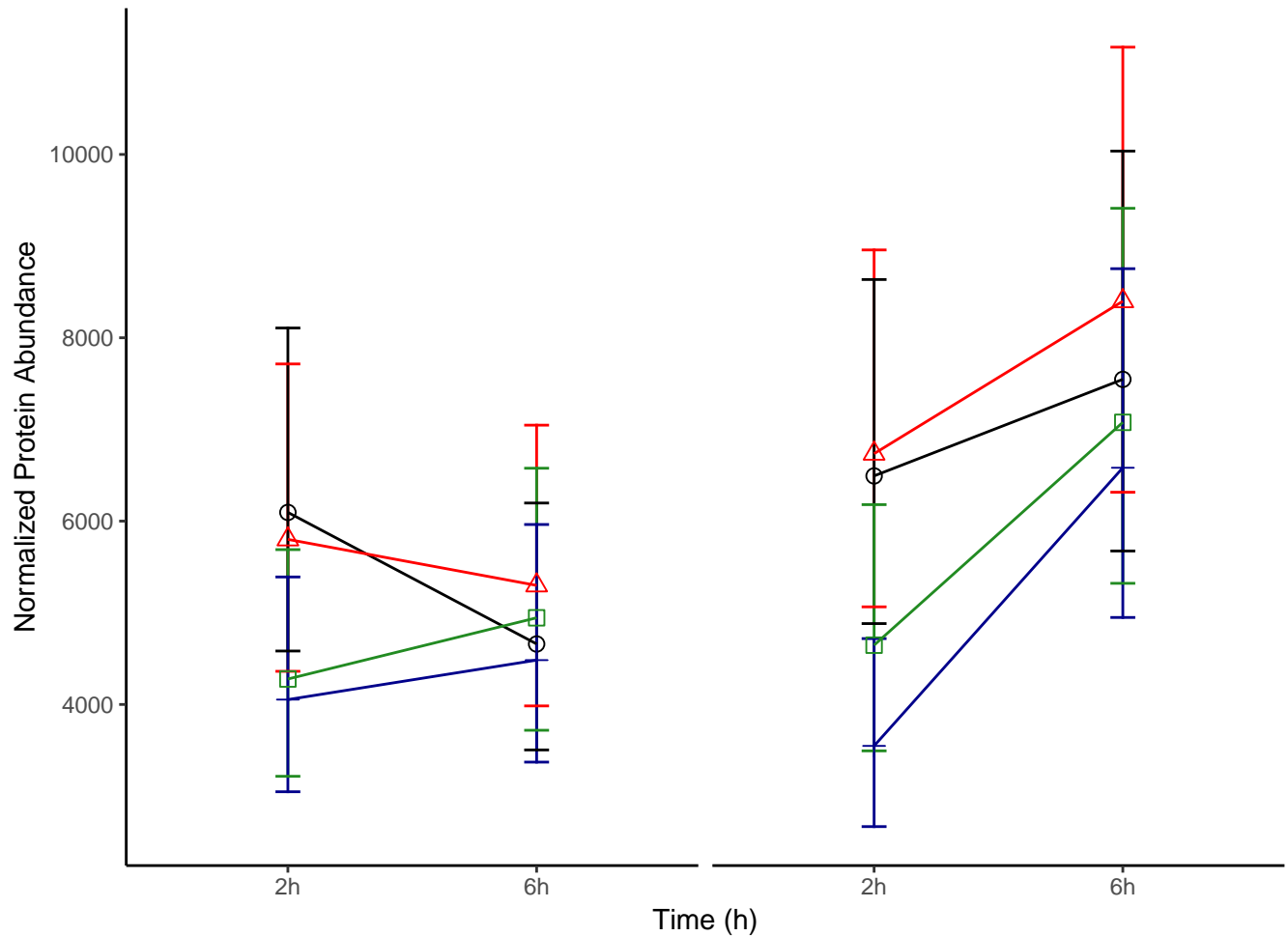


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ESXA\_STAAM

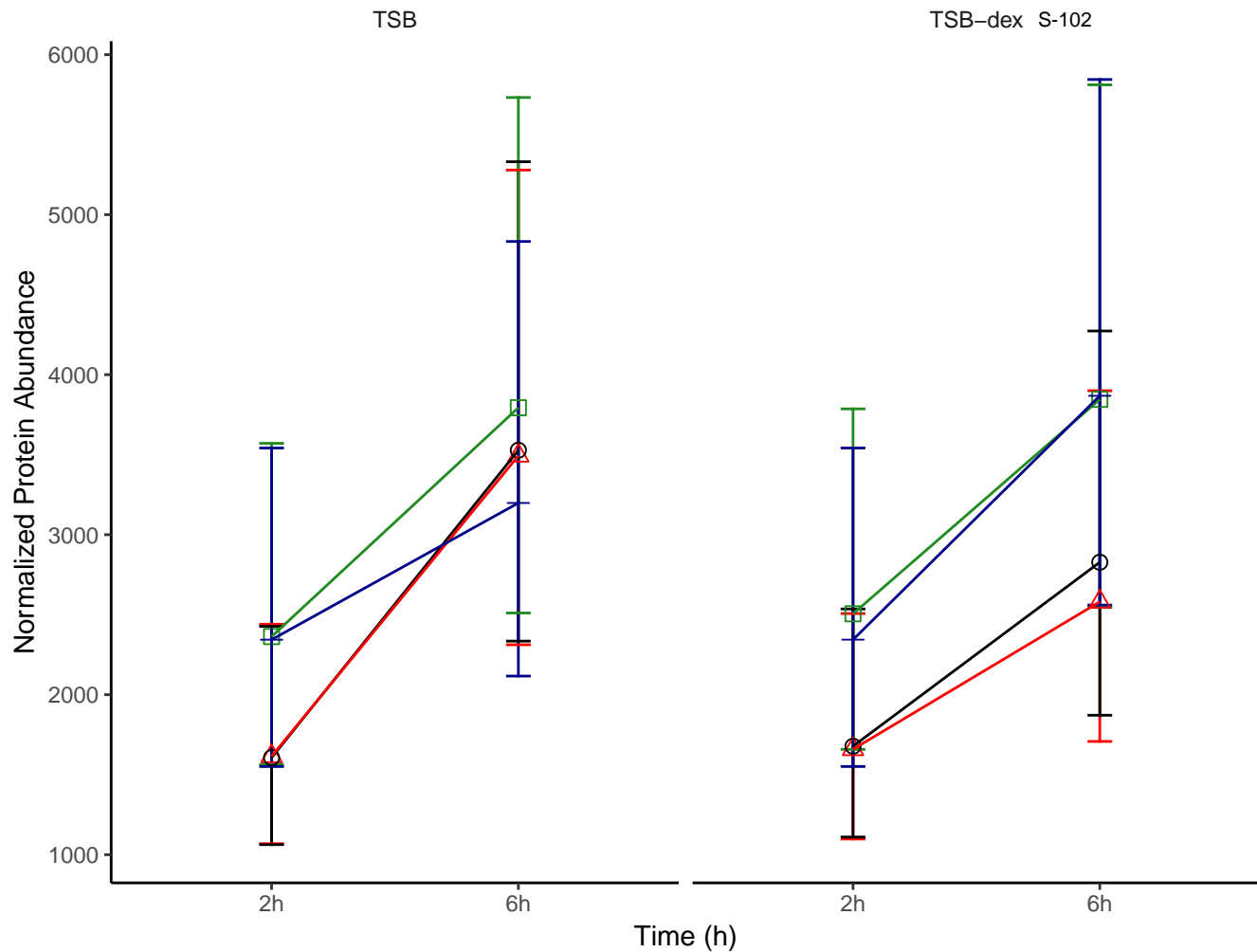
TSB

TSB-dex S-101



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EX7L\_STAAM

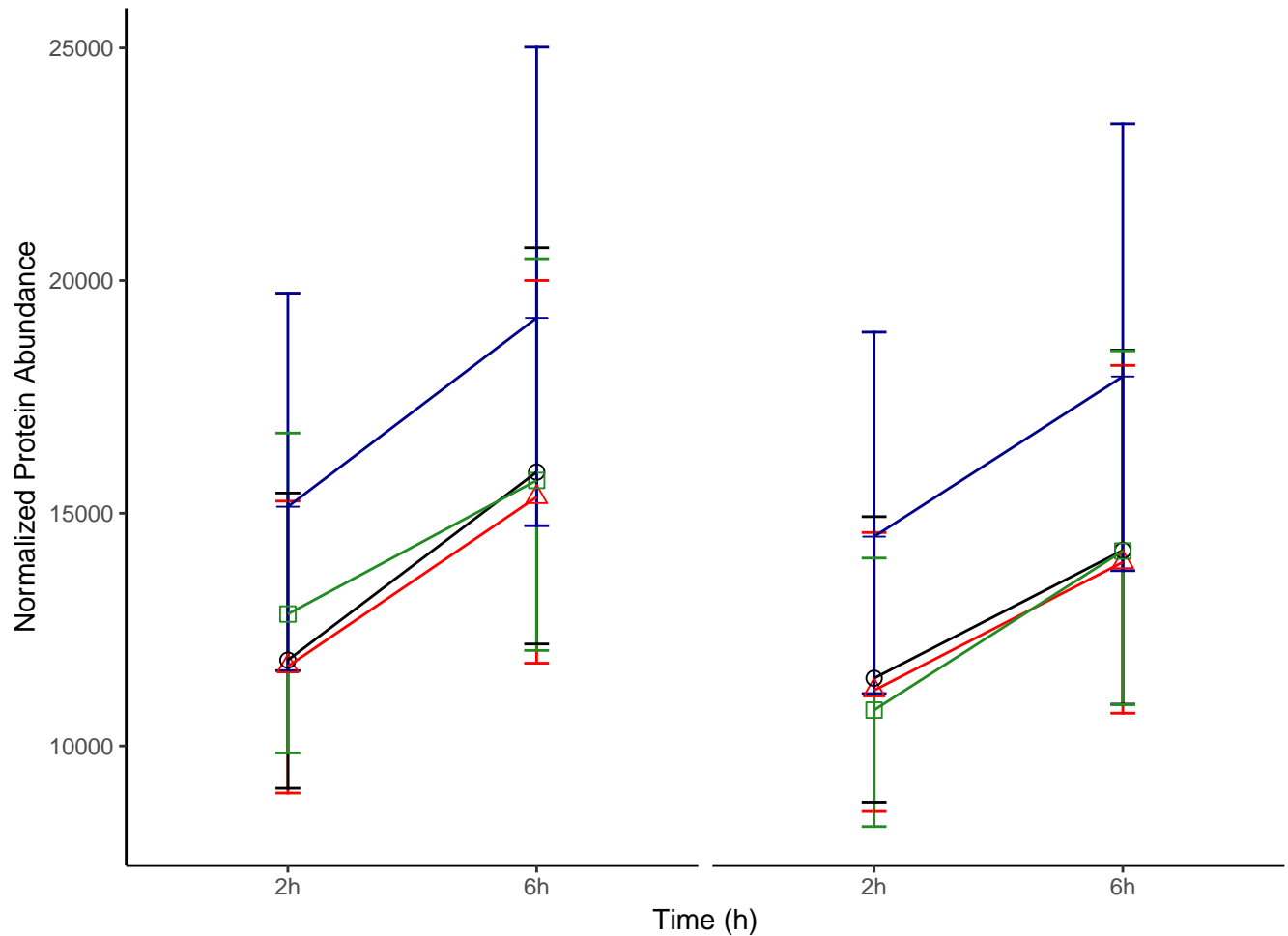


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EZRA\_STAAM

TSB

TSB-dex S-103

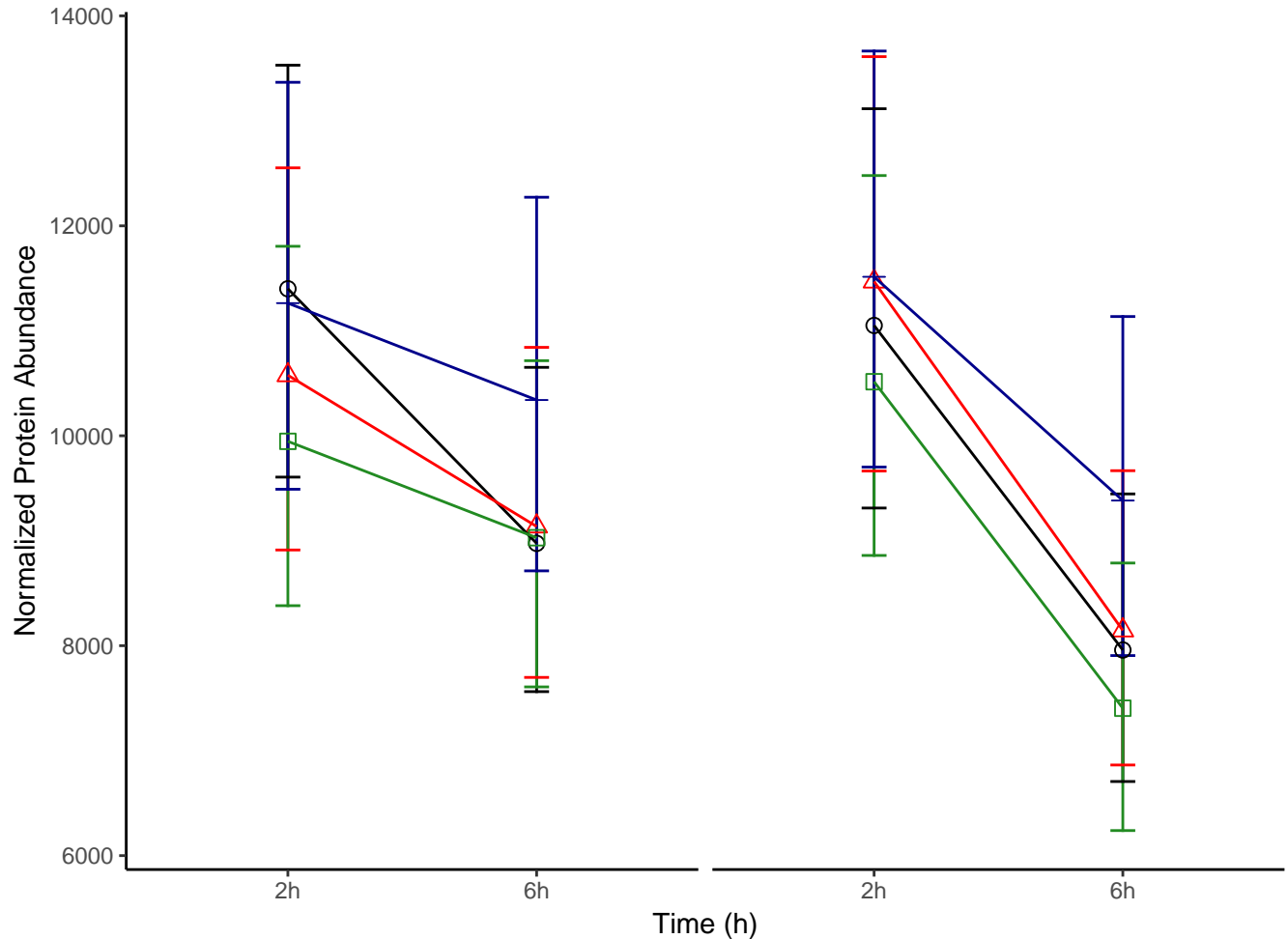


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABD\_STAAM

TSB

TSB-dex S-104



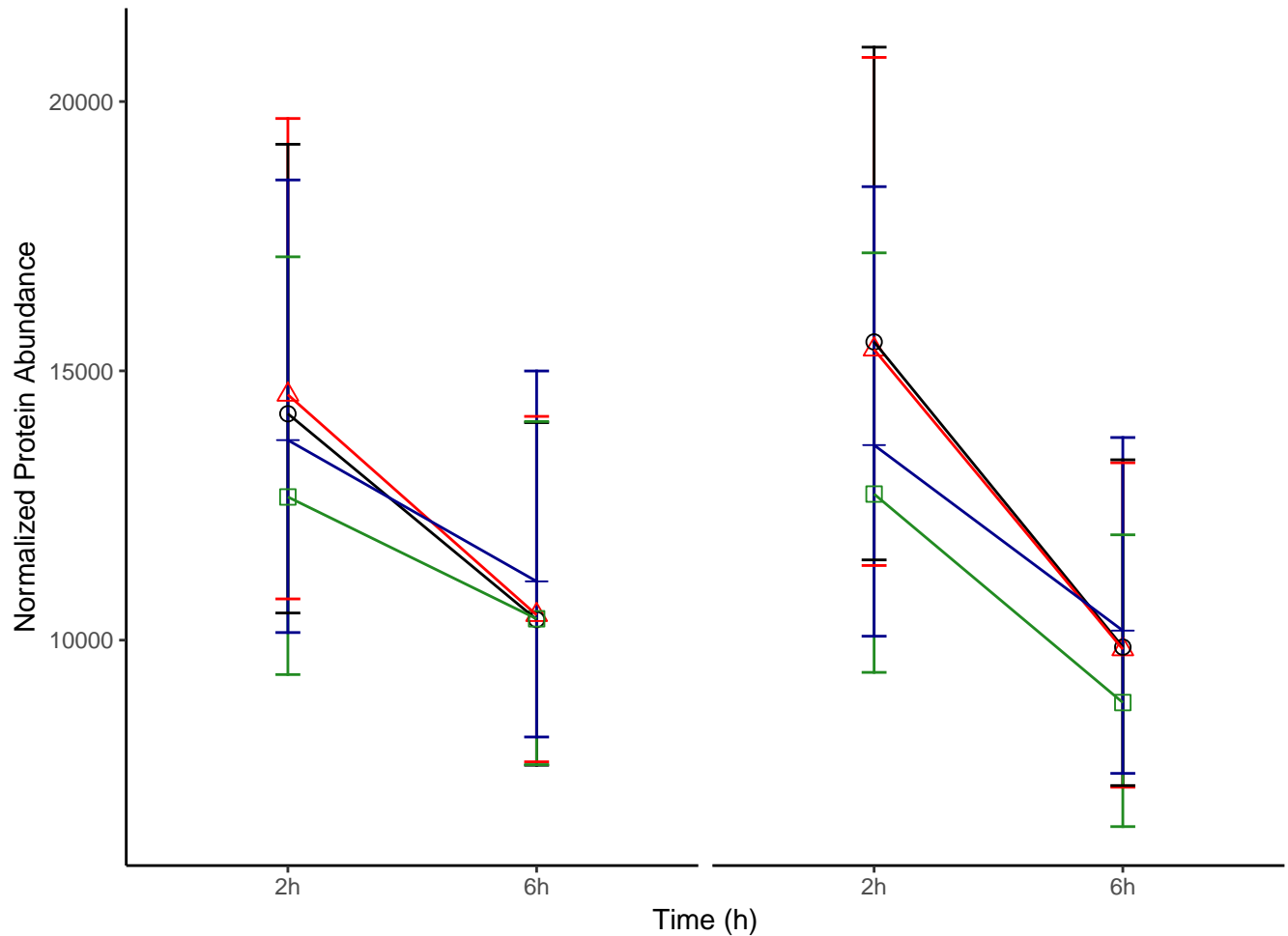
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# FABF\_STAAM

TSB

TSB-dex S-105

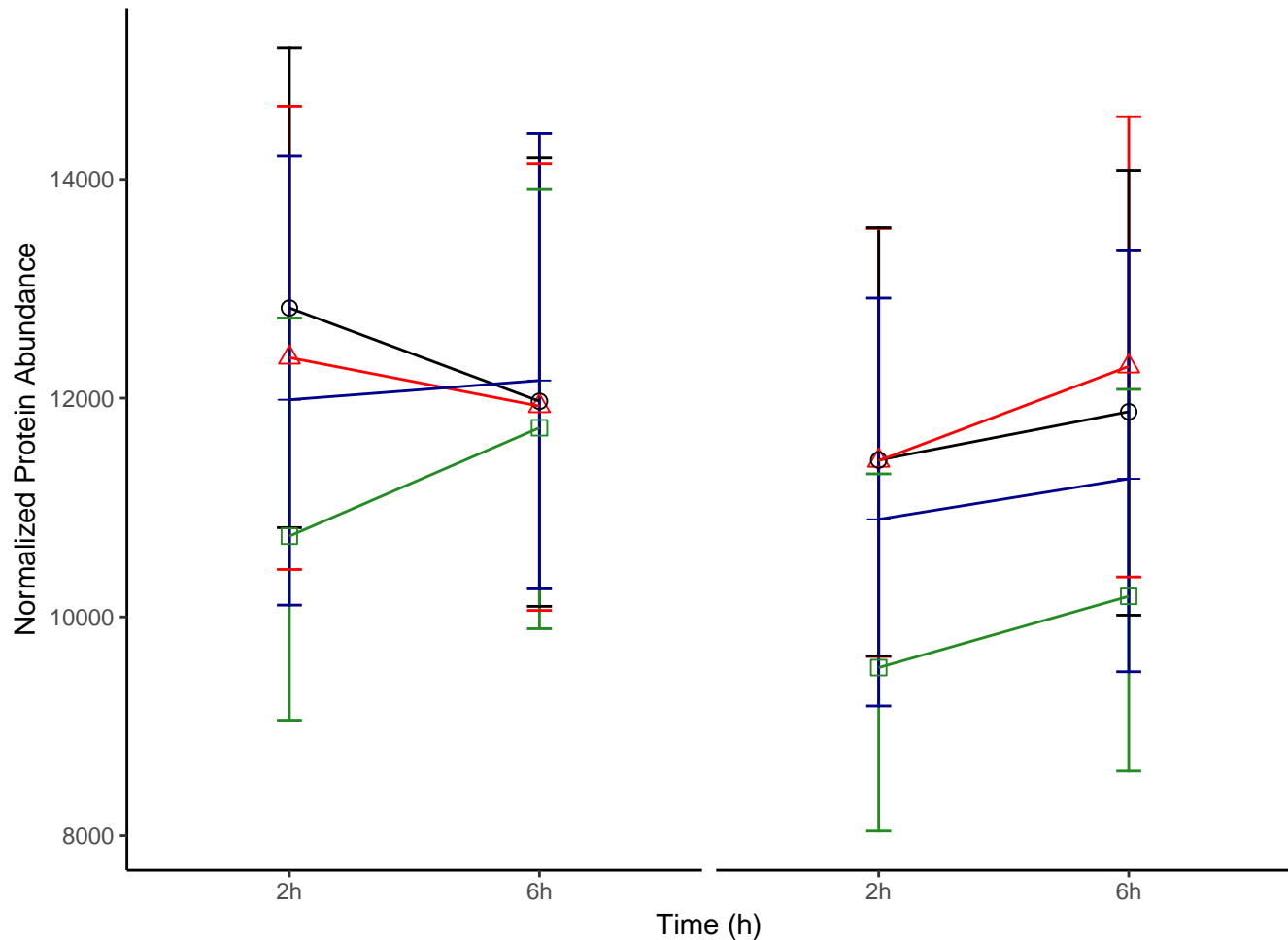


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FABG\_STAAM

TSB

TSB-dex S-106

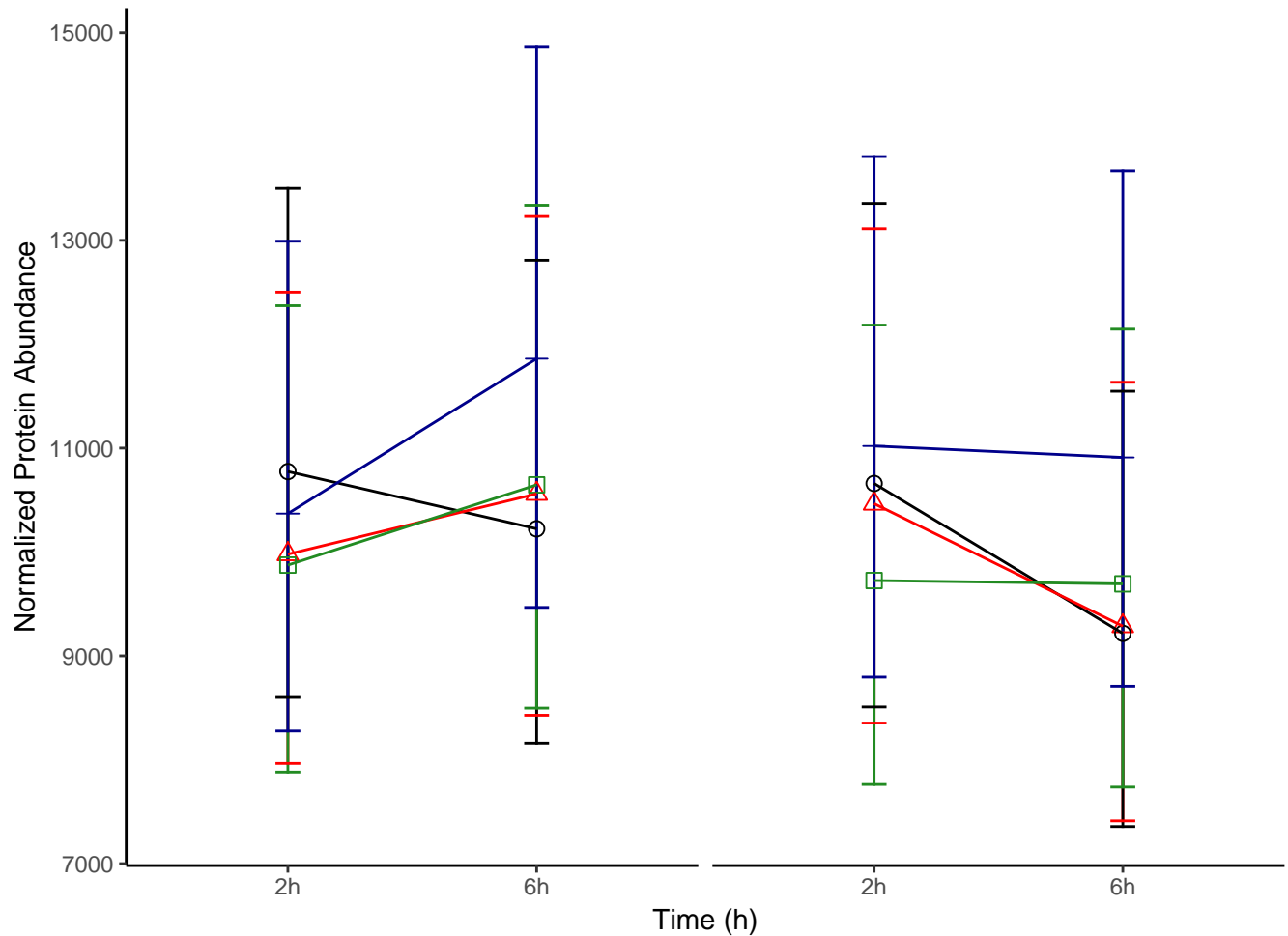


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FABH\_STAAM

TSB

TSB-dex S-107

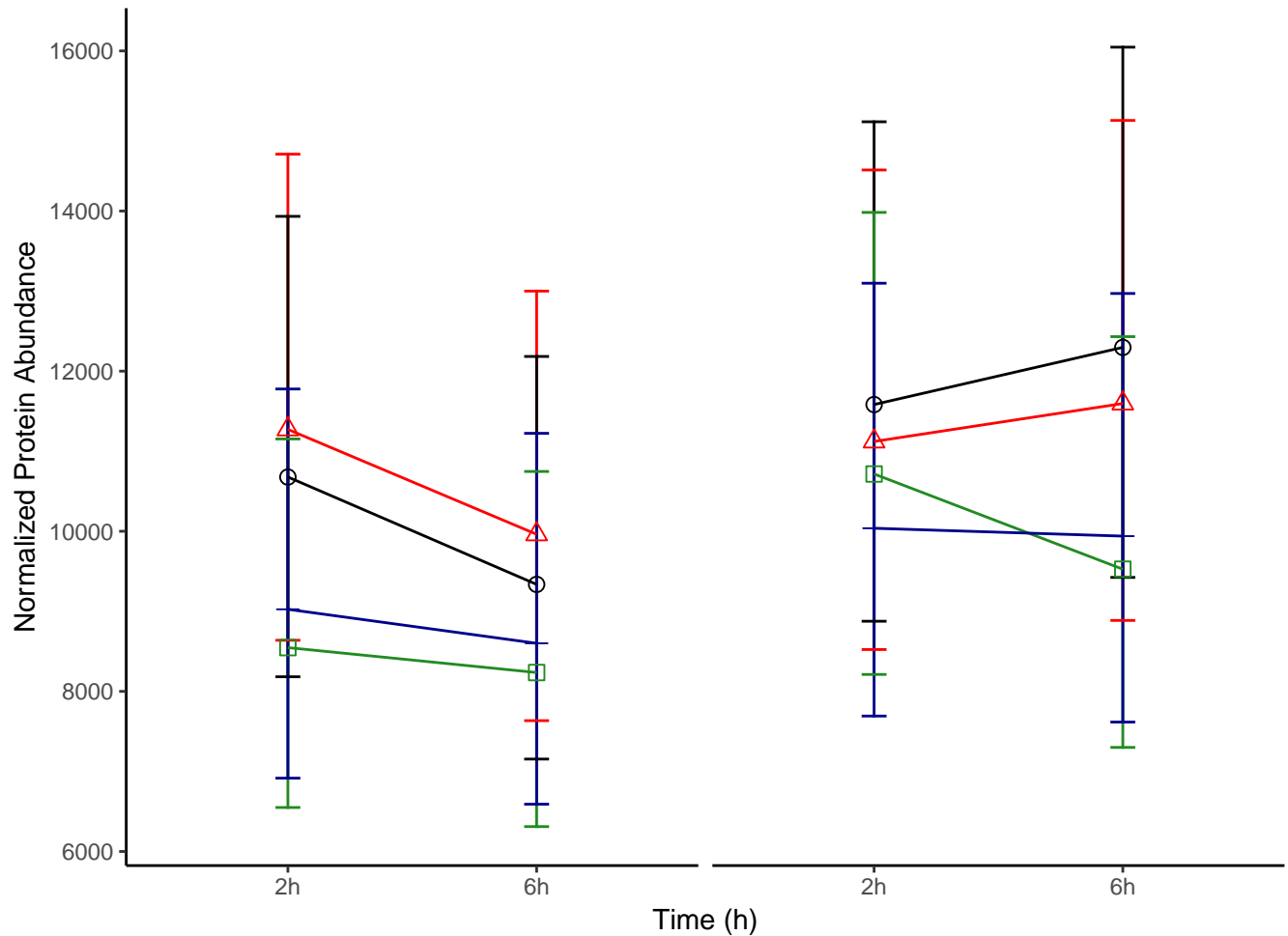


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABZ\_STAAM

TSB

TSB-dex S-108

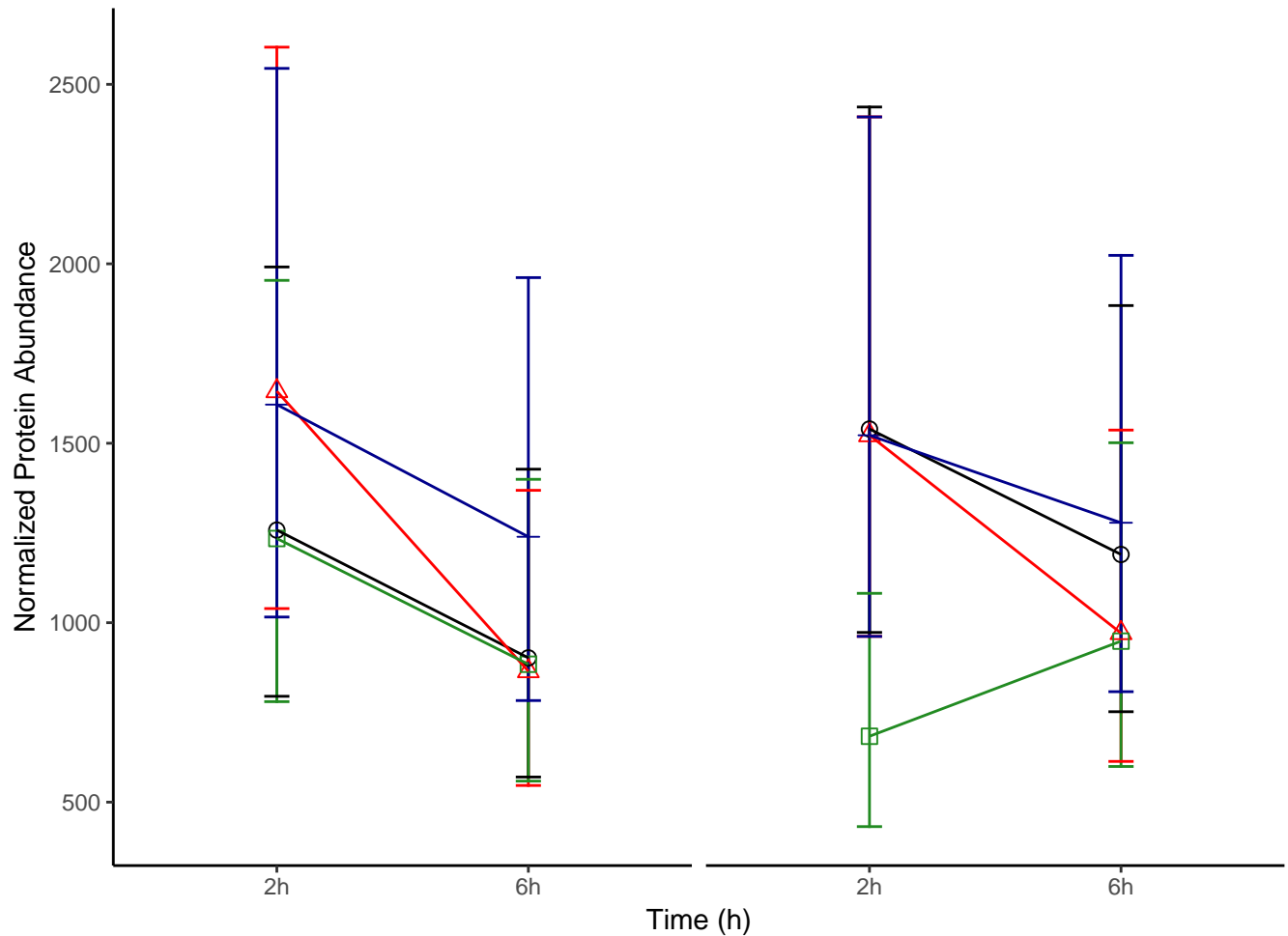


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FEMA\_STAAM

TSB

TSB-dex S-109

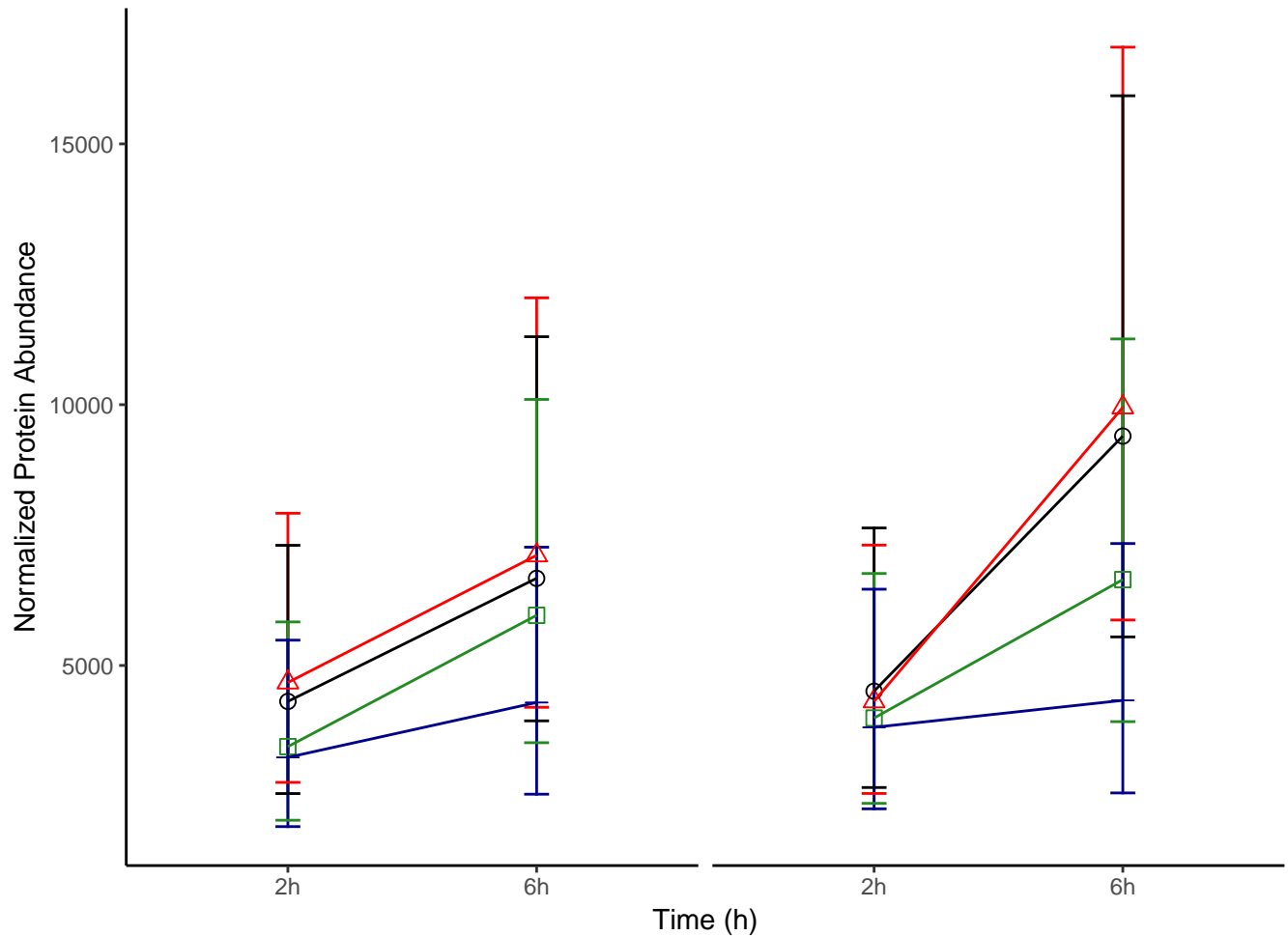


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FEMB\_STAAM

TSB

TSB-dex S-110

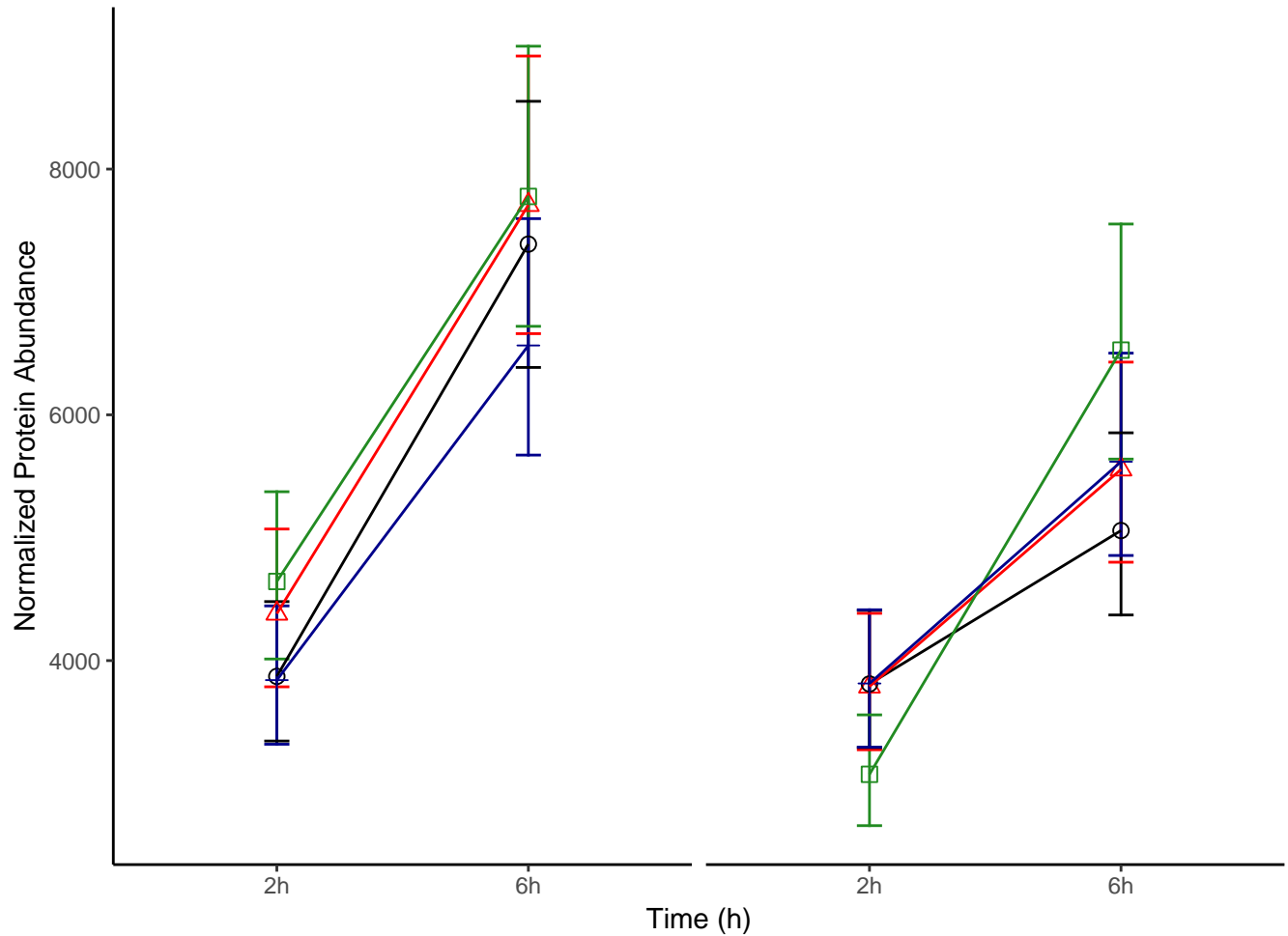


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FEMX\_STAAM

TSB

TSB-dex S-111

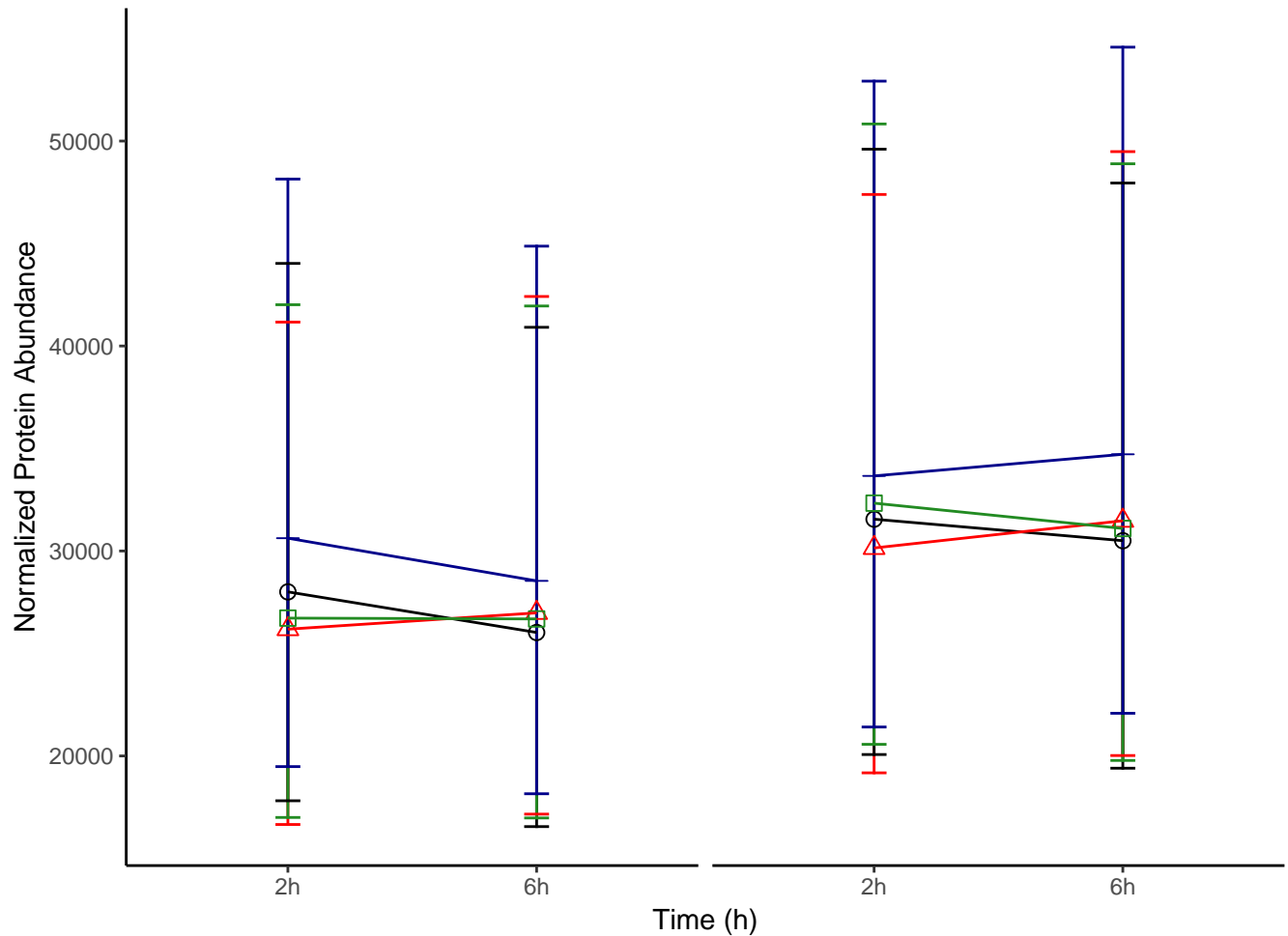


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FENR\_STAAM

TSB

TSB-dex S-112



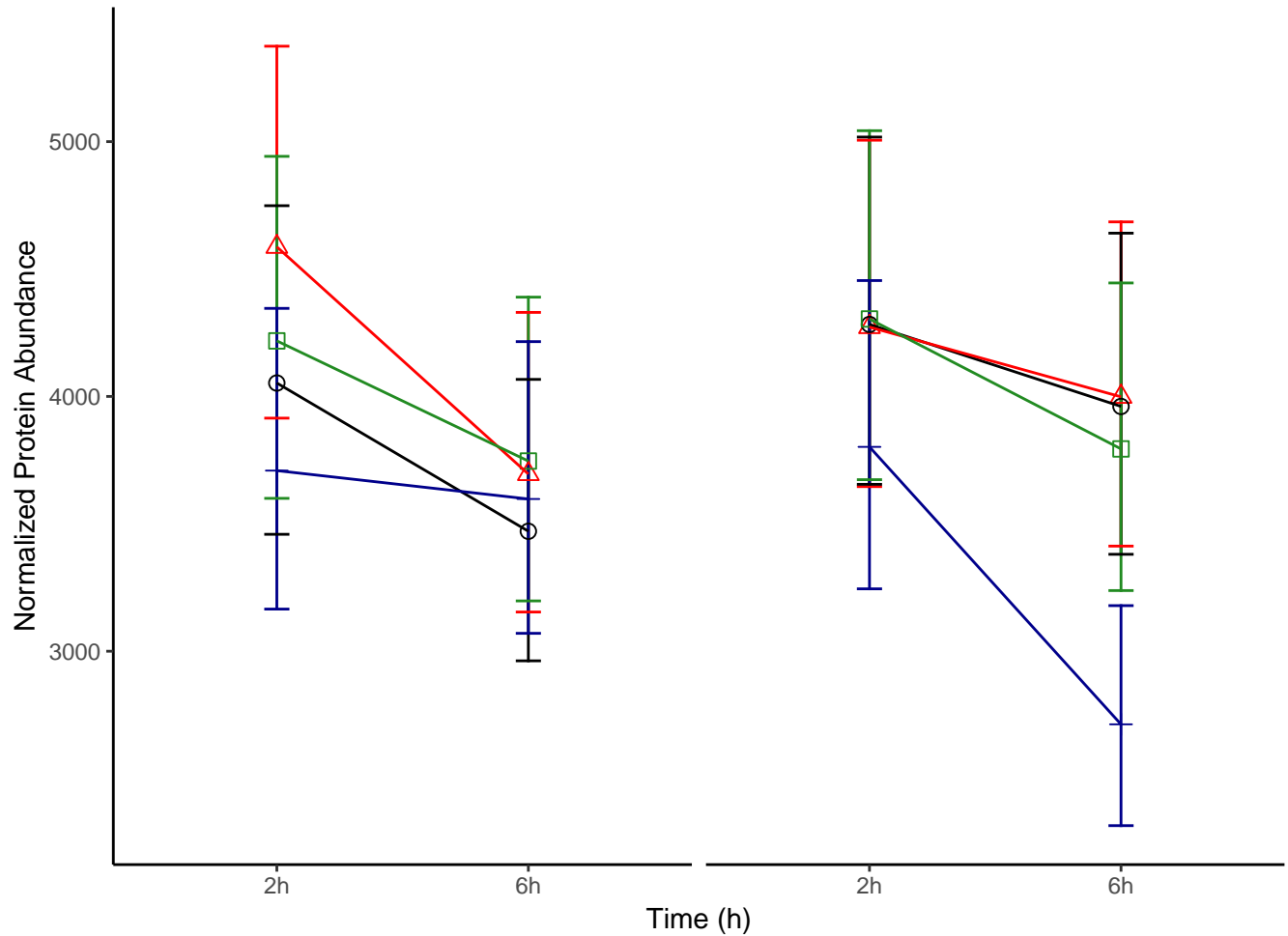
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# FLIPR\_STAAM

TSB

TSB-dex S-113

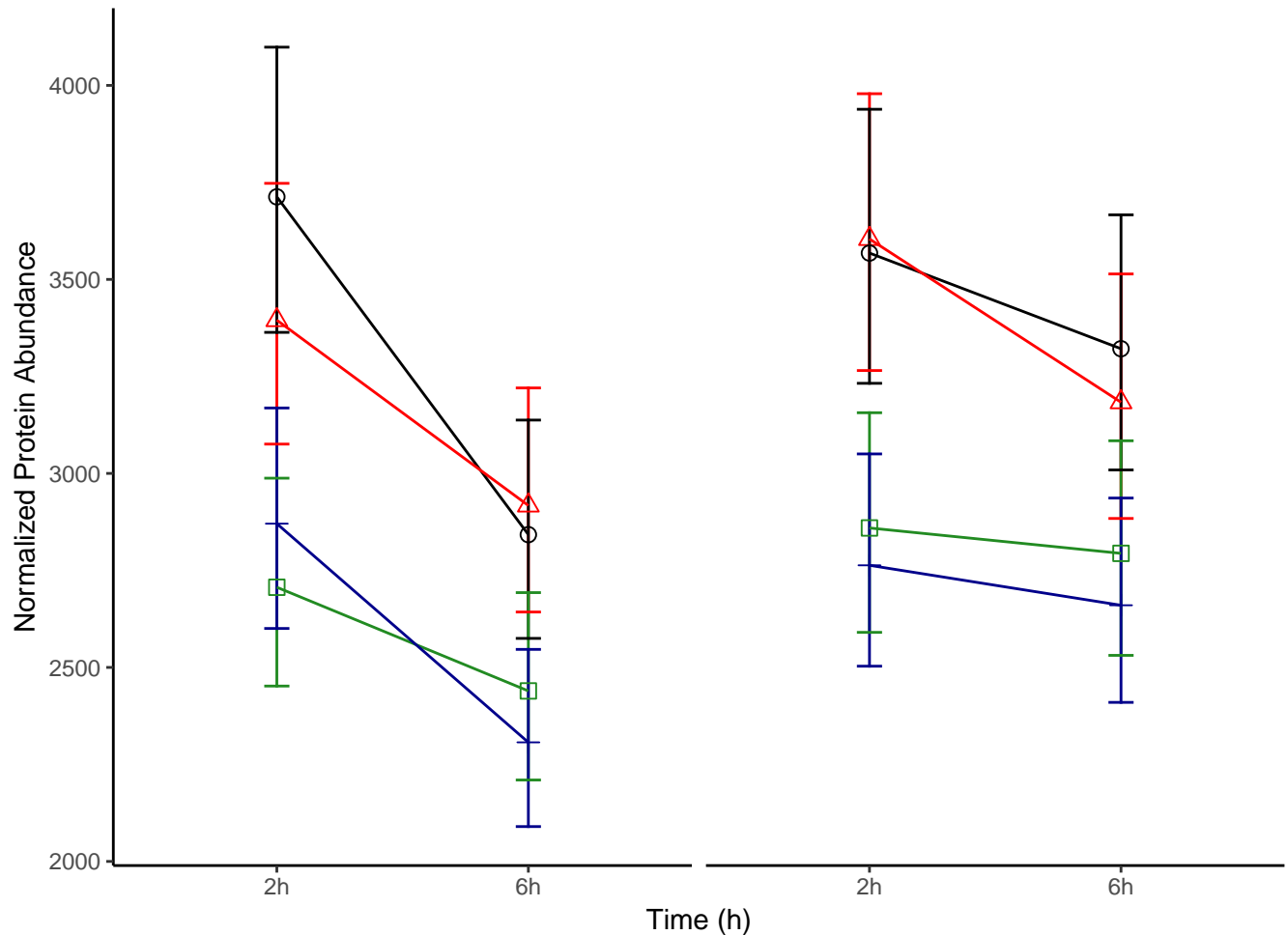


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FMT\_STAAM

TSB

TSB-dex S-114

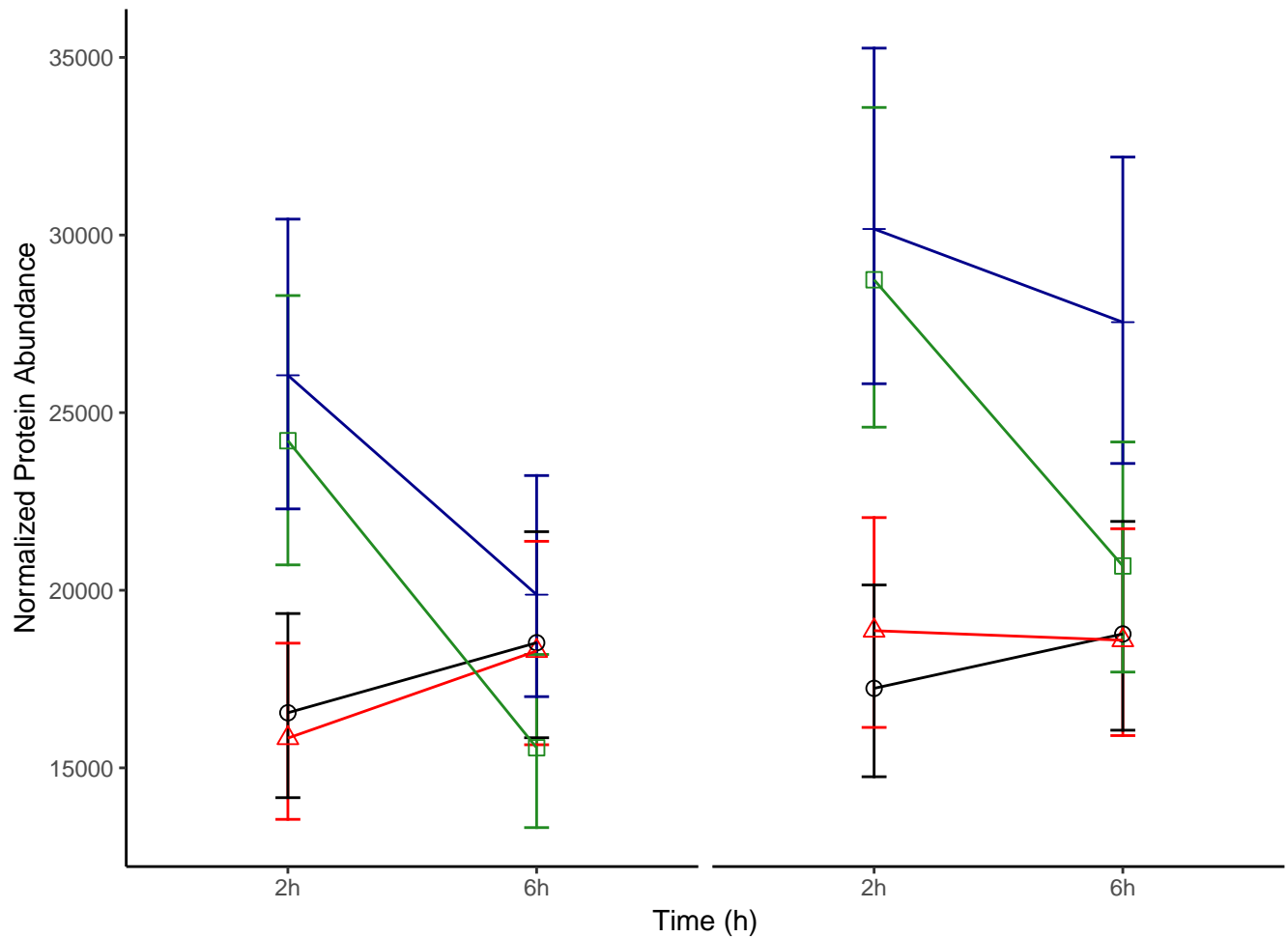


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FMTA\_STAAM

TSB

TSB-dex S-115

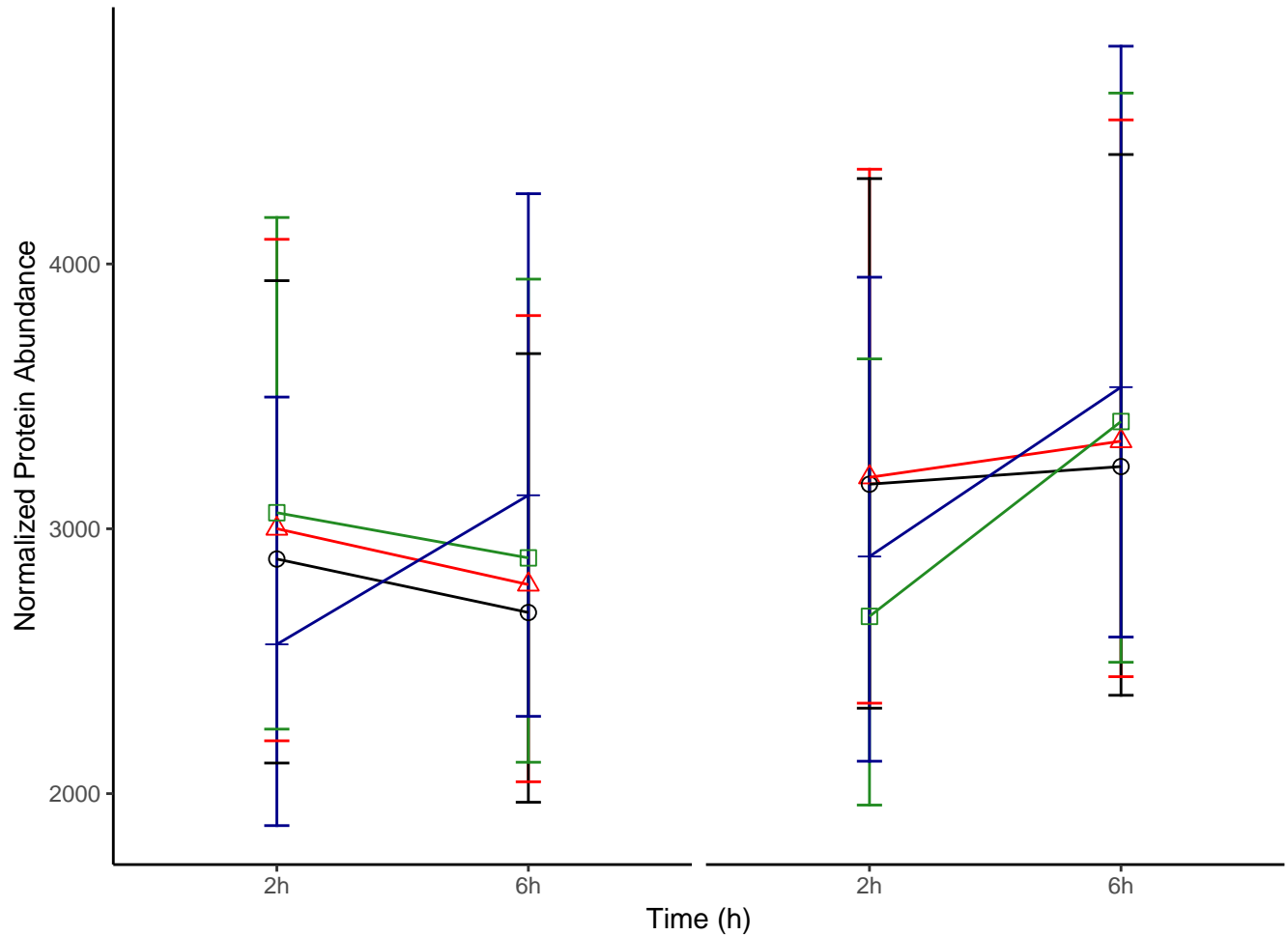


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FOLB\_STAAM

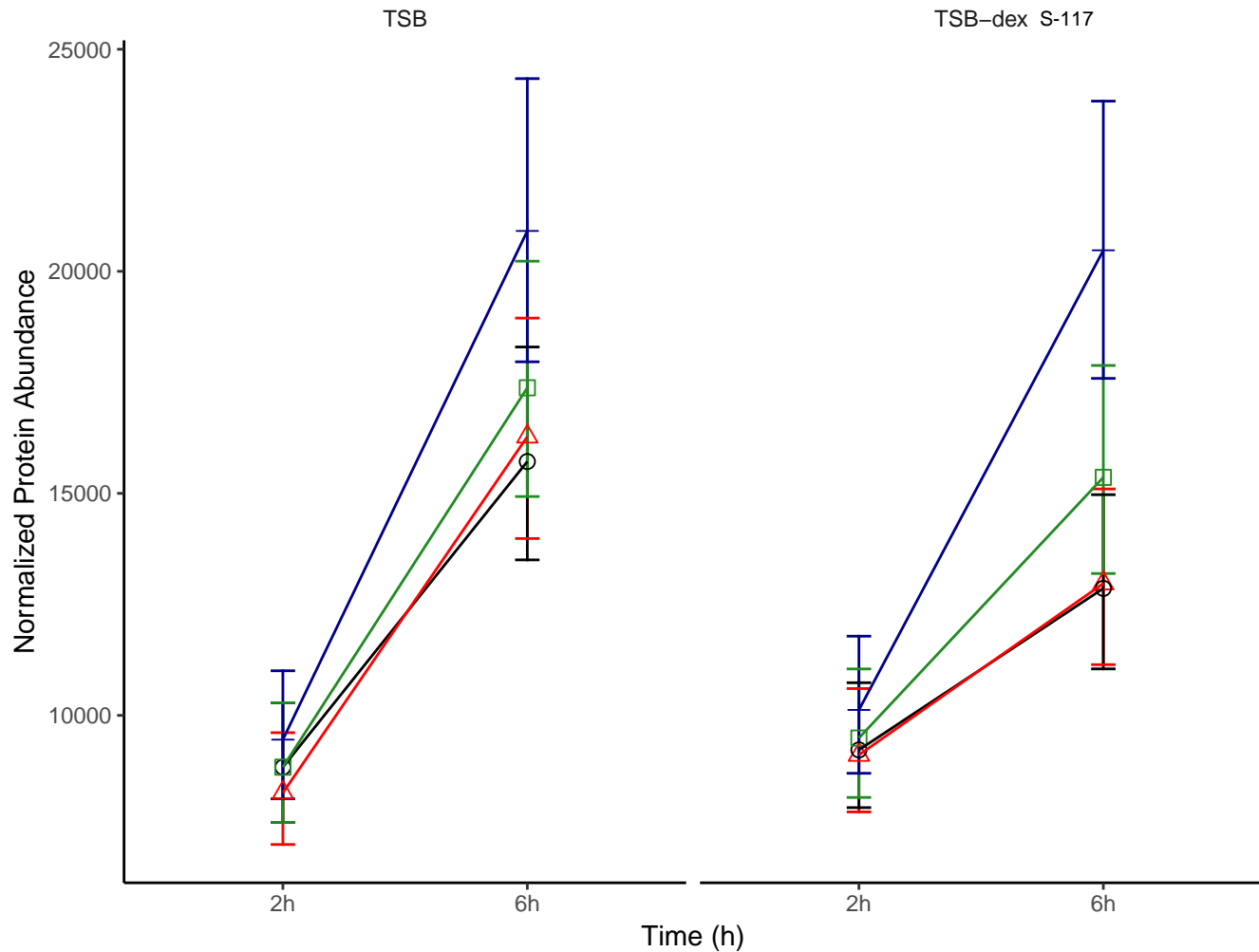
TSB

TSB-dex S-116



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FOLD\_STAAM

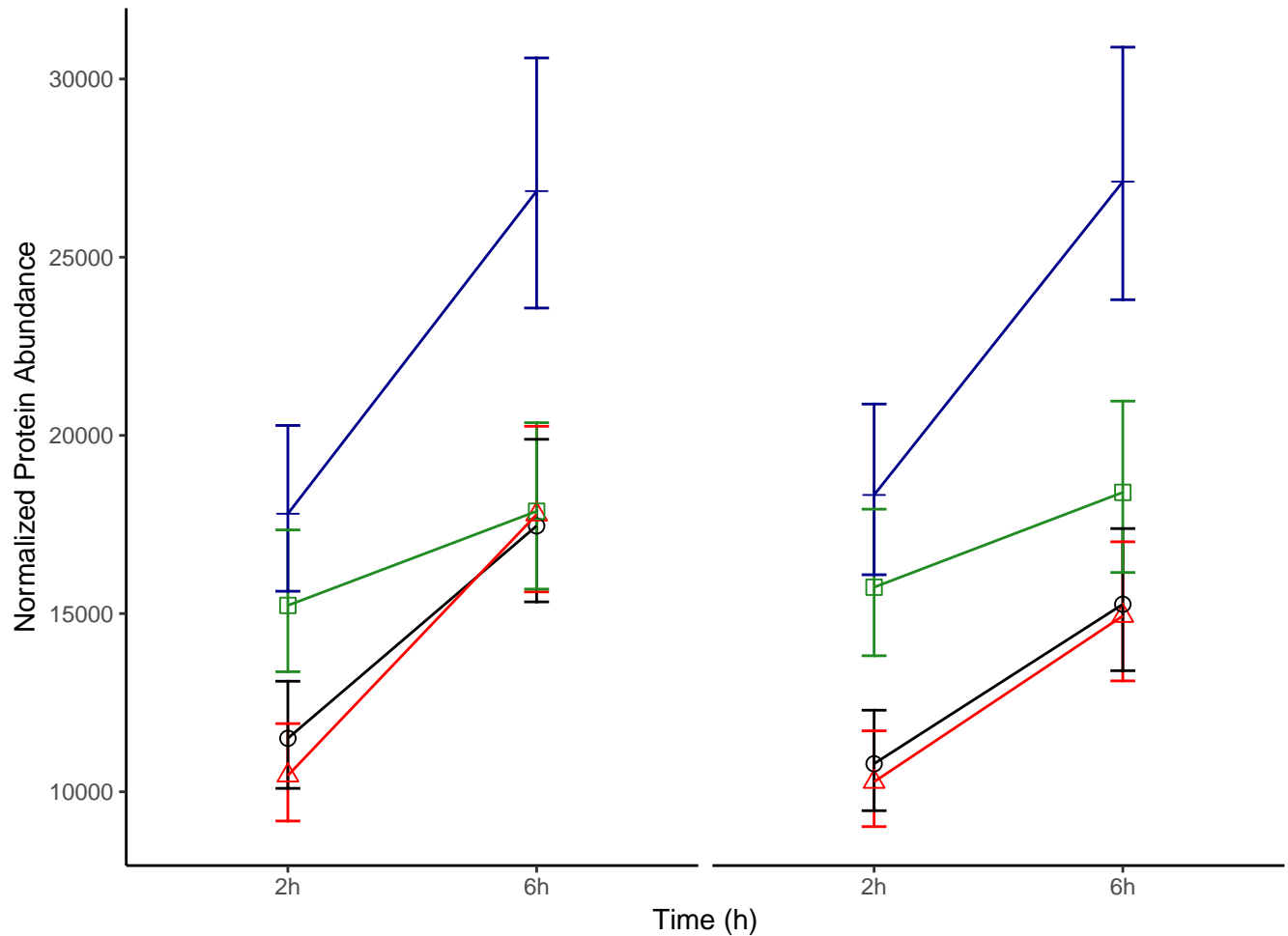


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FTHS\_STAAM

TSB

TSB-dex S-118

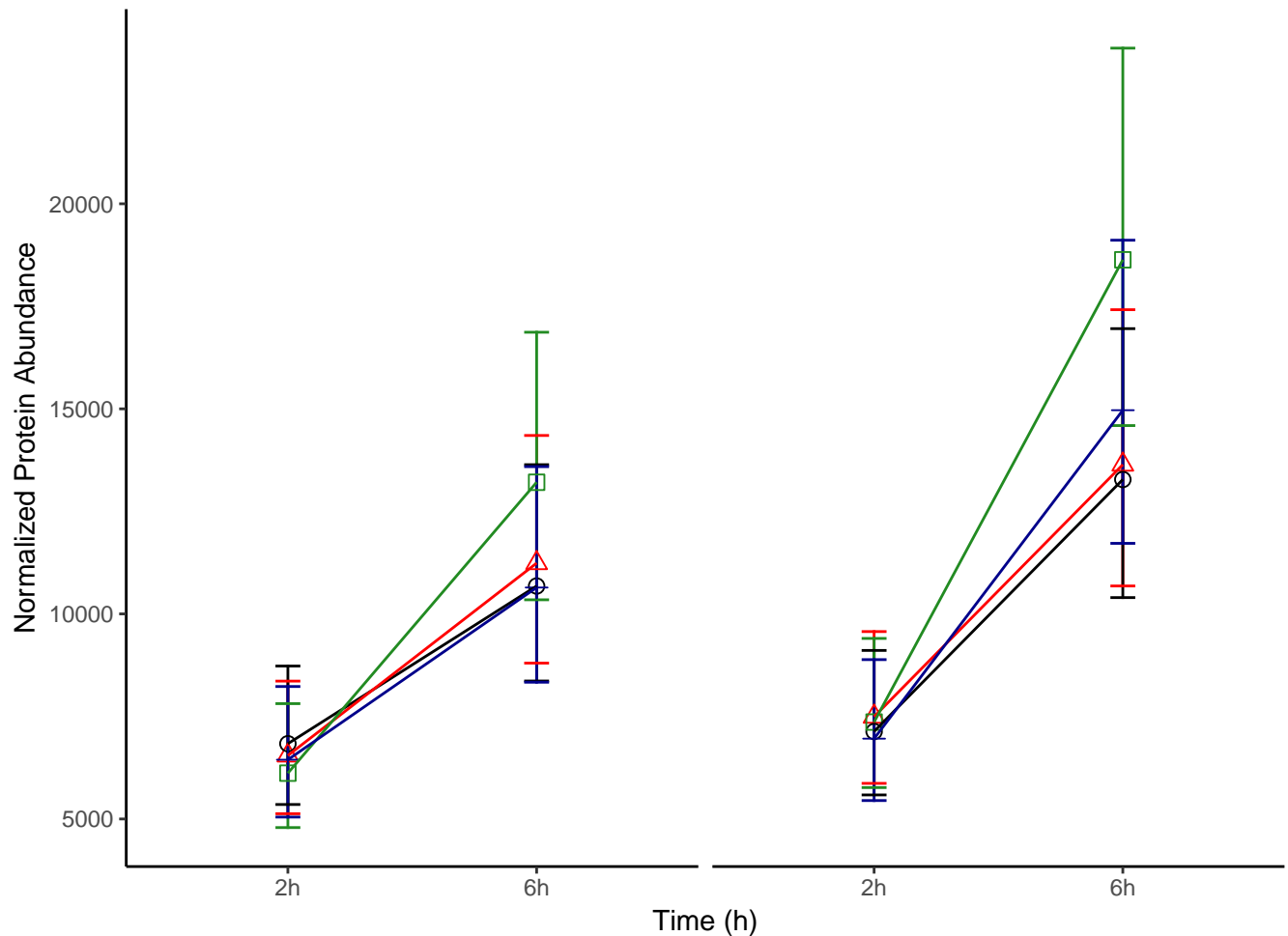


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTN\_STAAM

TSB

TSB-dex S-119

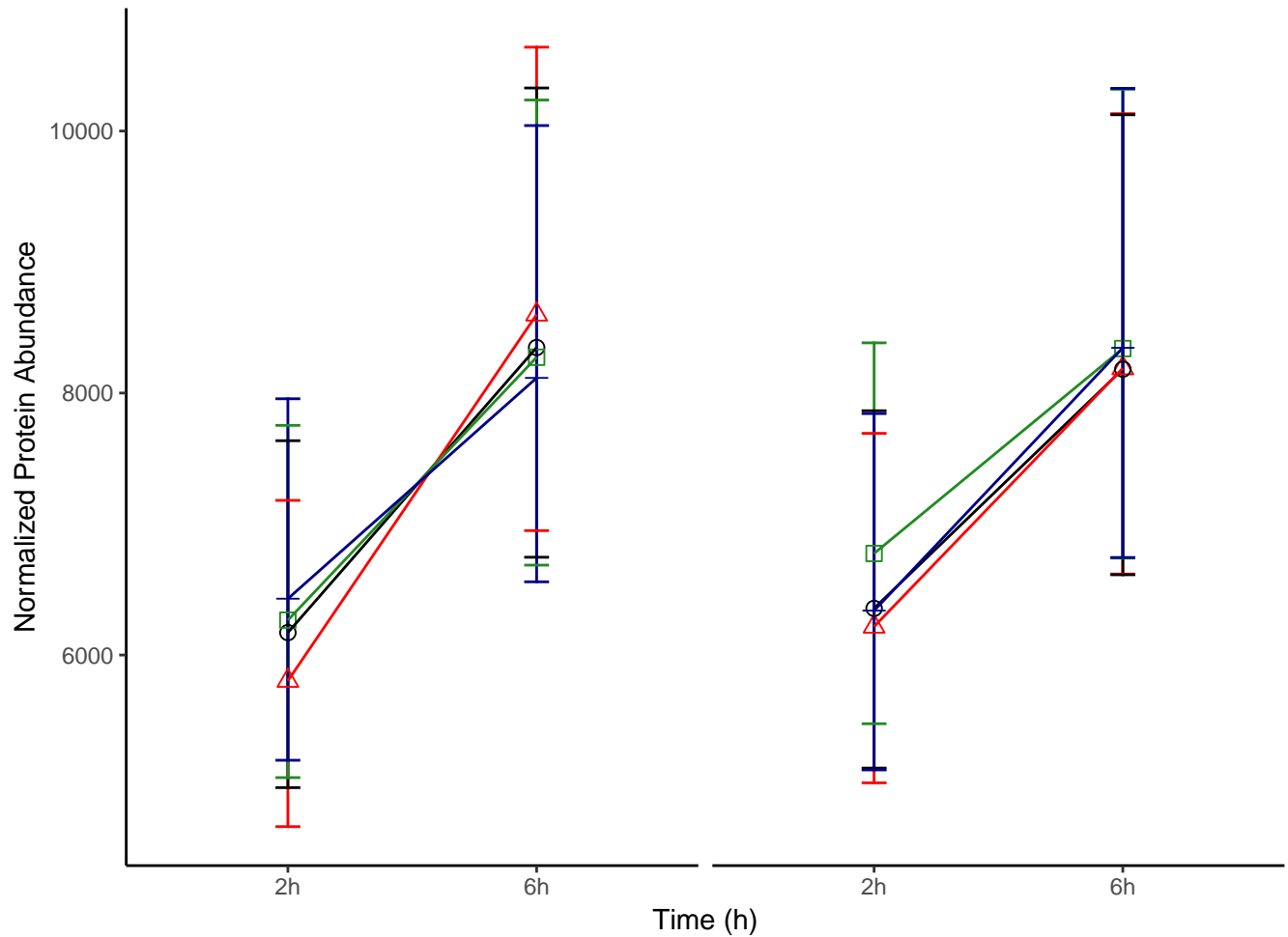


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTSA\_STAAM

TSB

TSB-dex S-120



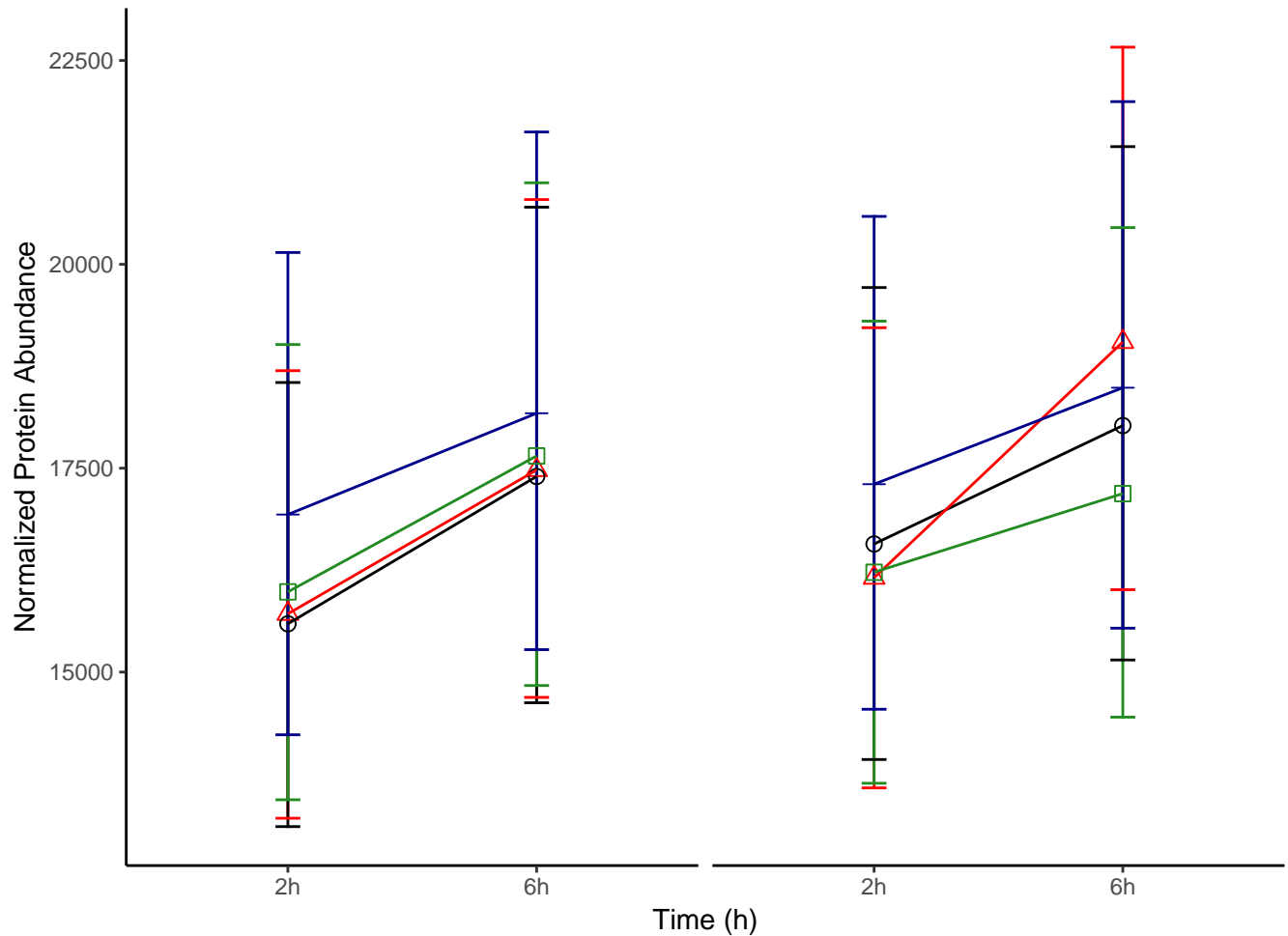
- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# FTSZ\_STAAM

TSB

TSB-dex S-121

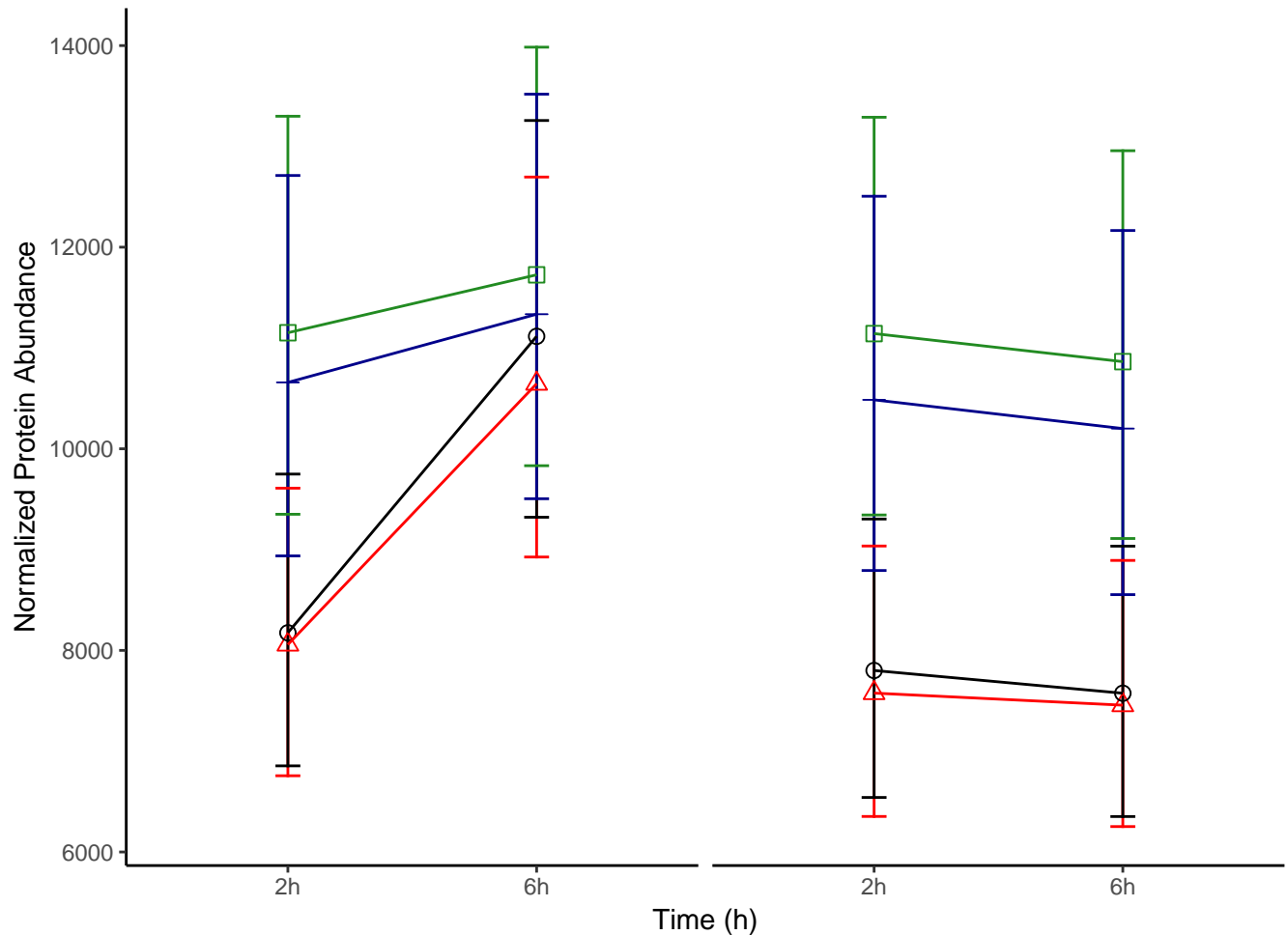


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FUMC\_STAAM

TSB

TSB-dex S-122

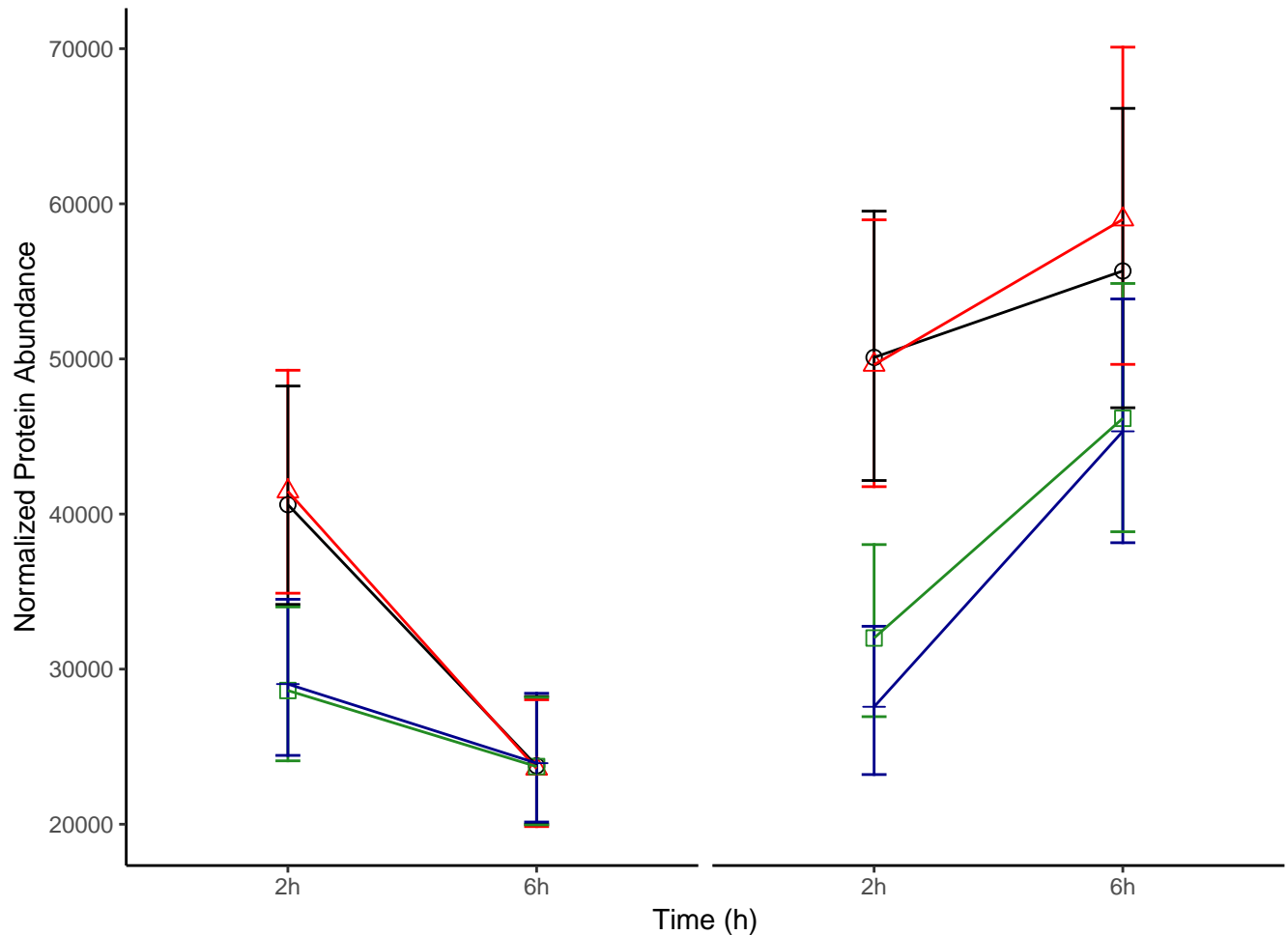


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# G3P1\_STAAM

TSB

TSB-dex S-123

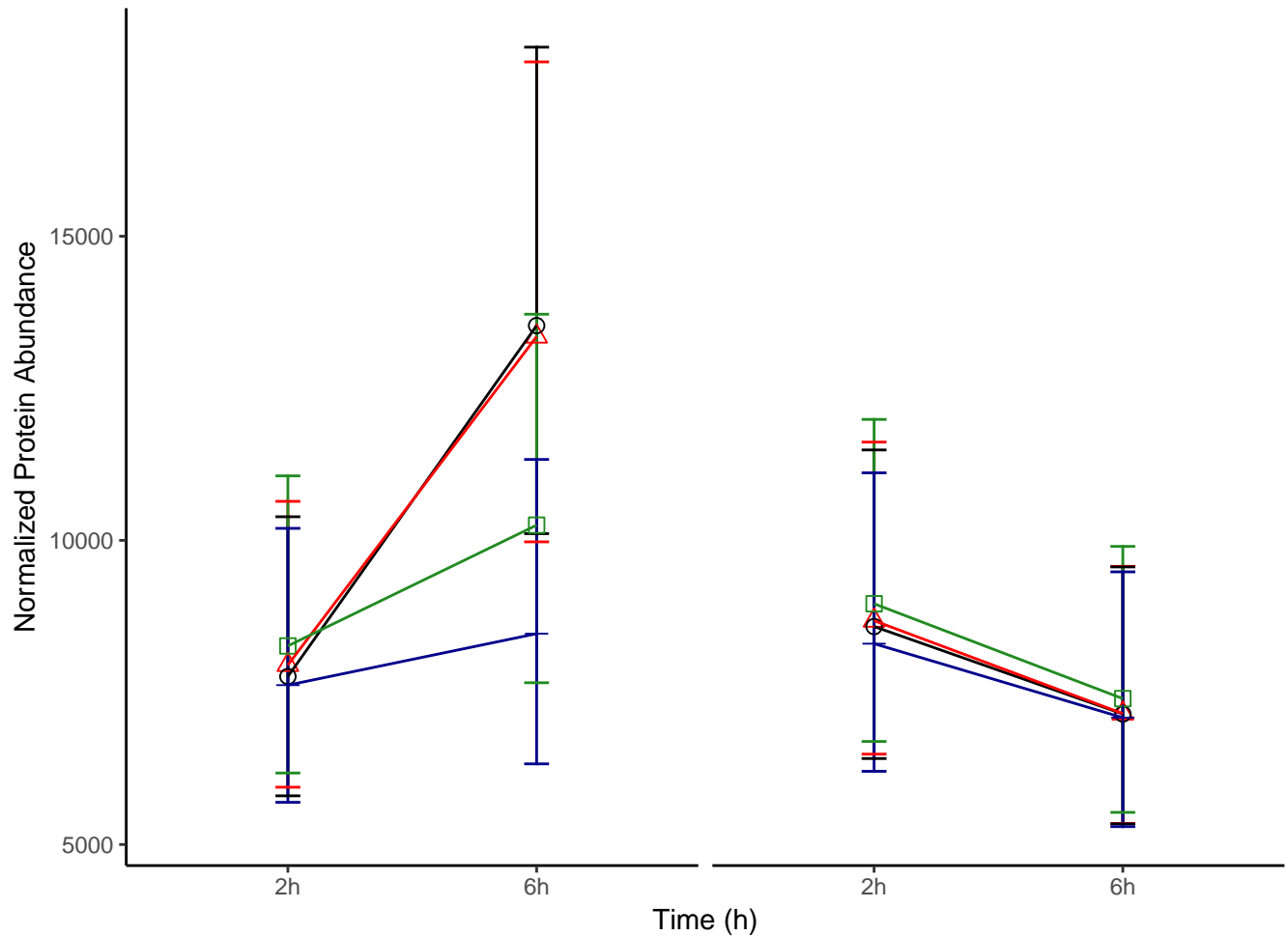


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# G3P2\_STAAM

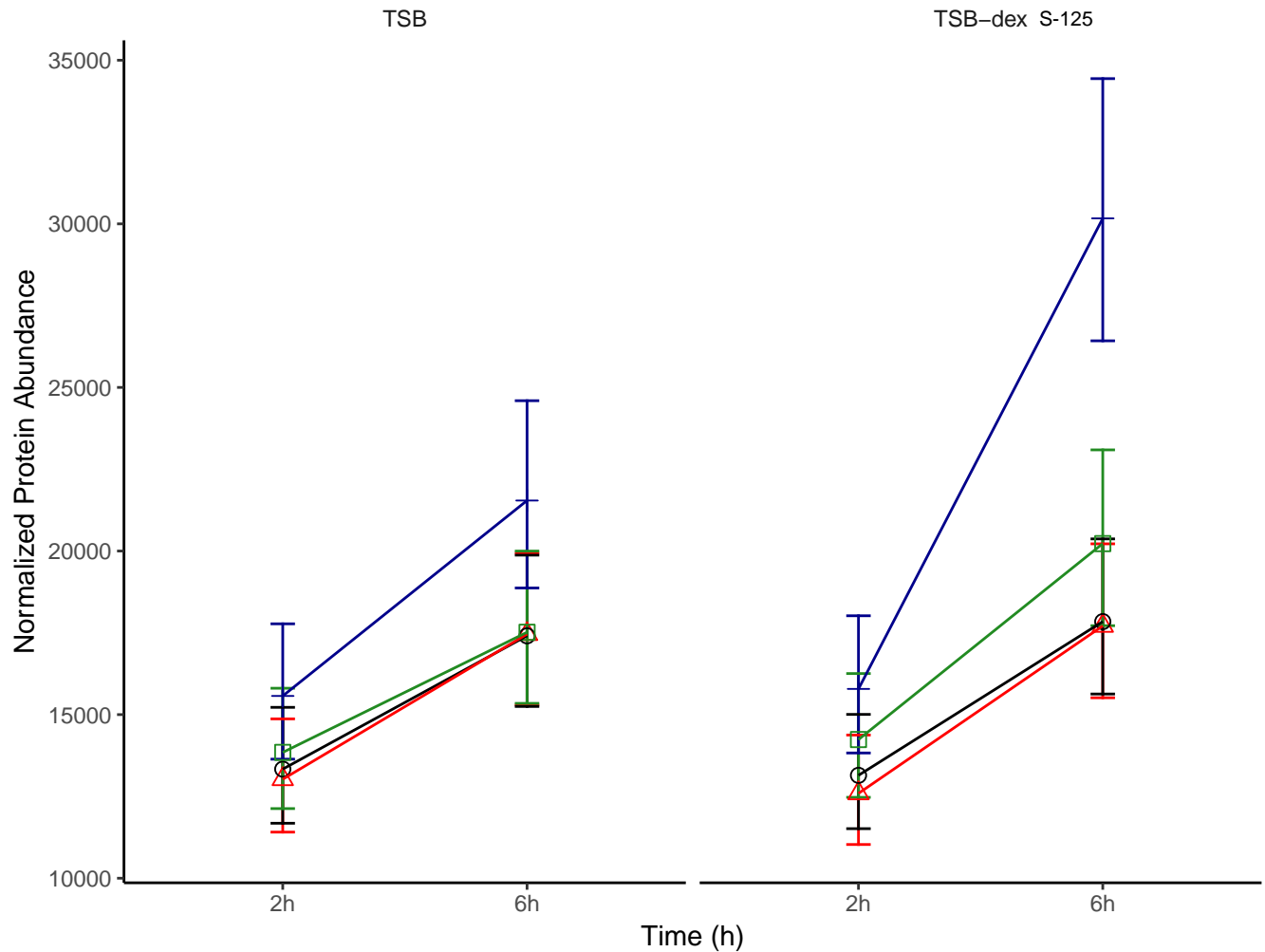
TSB

TSB-dex S-124



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# G6PI\_STAAM

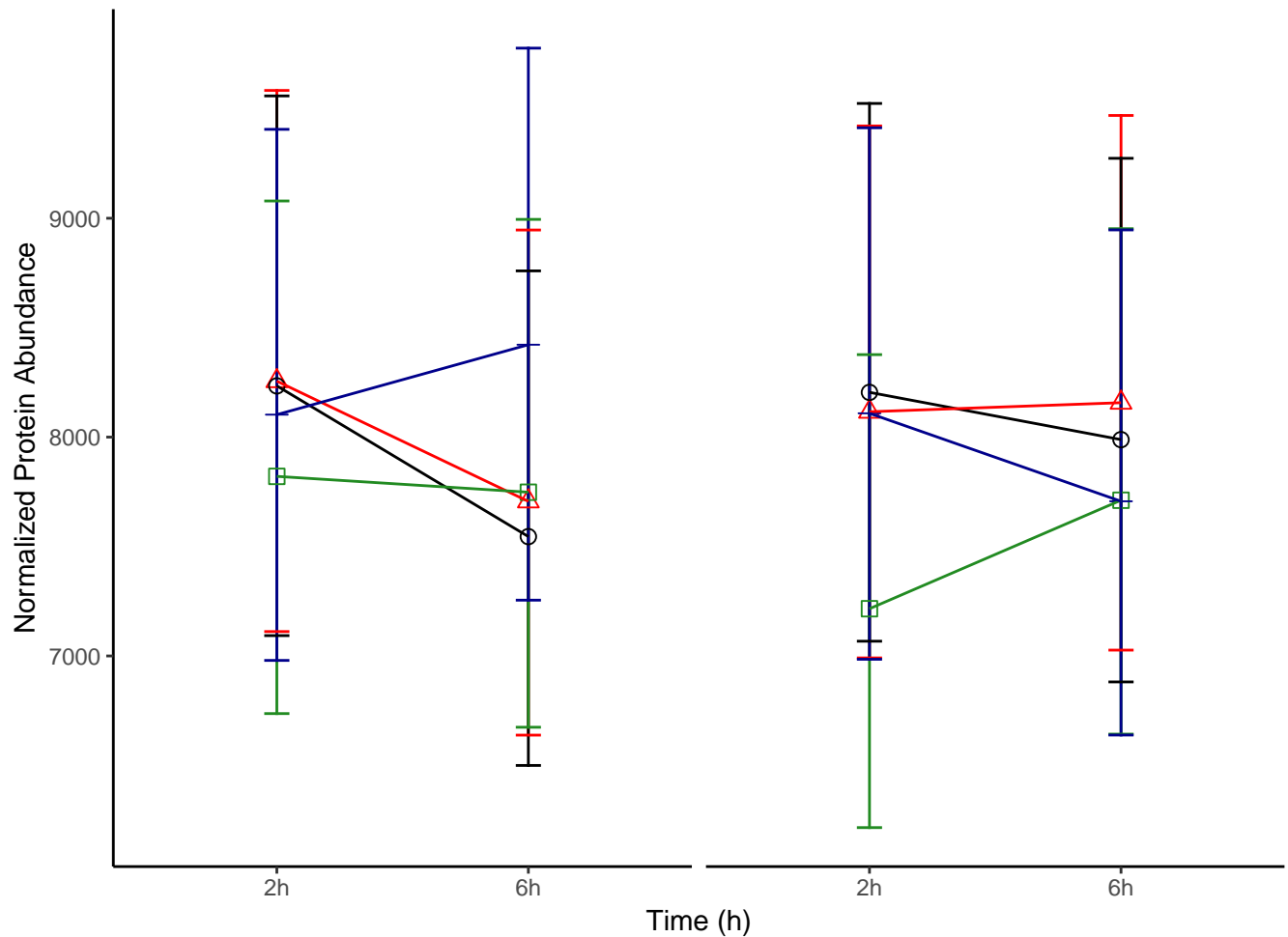


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GATA\_STAAM

TSB

TSB-dex S-126

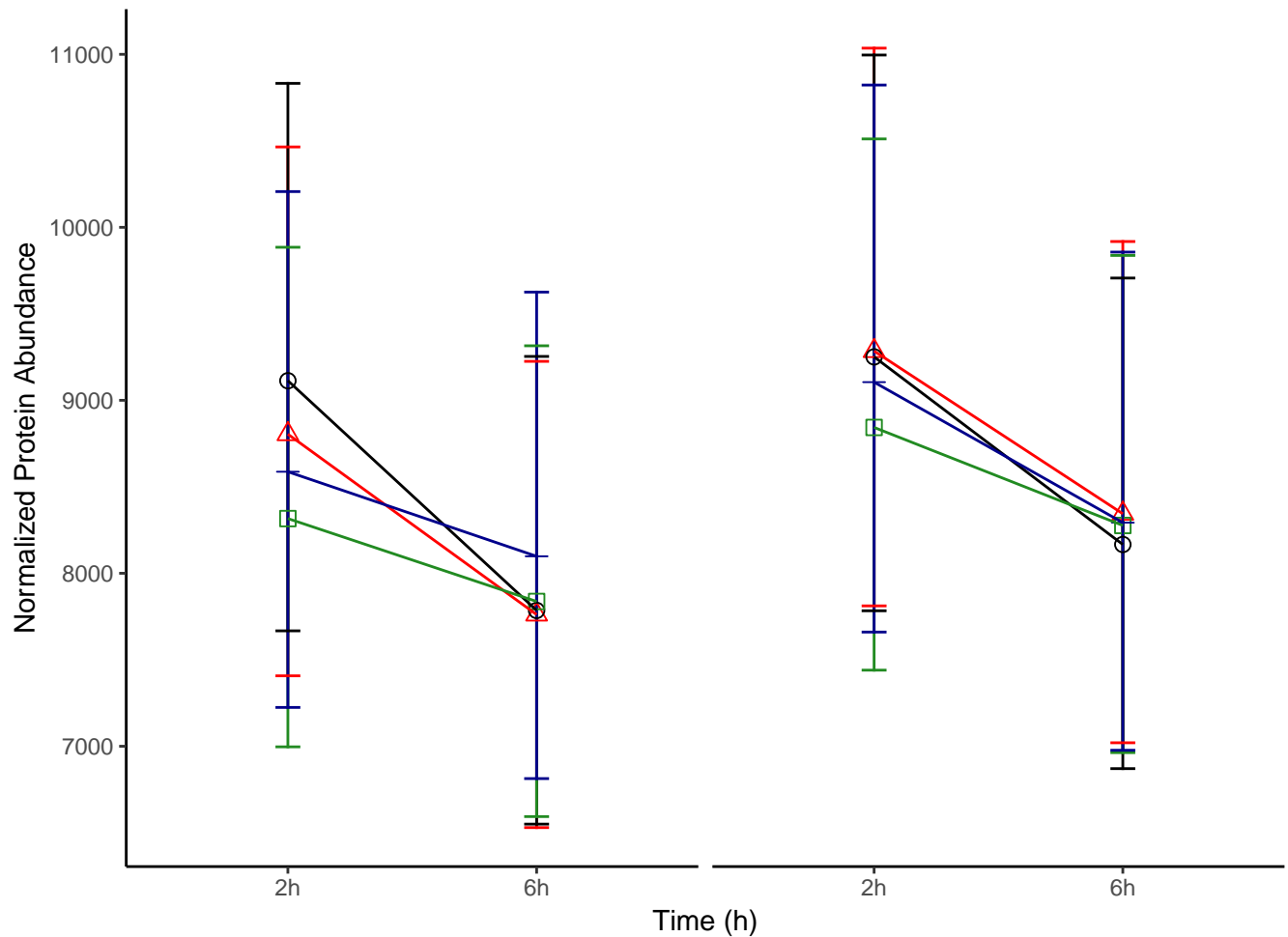


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GATB\_STAAM

TSB

TSB-dex S-127

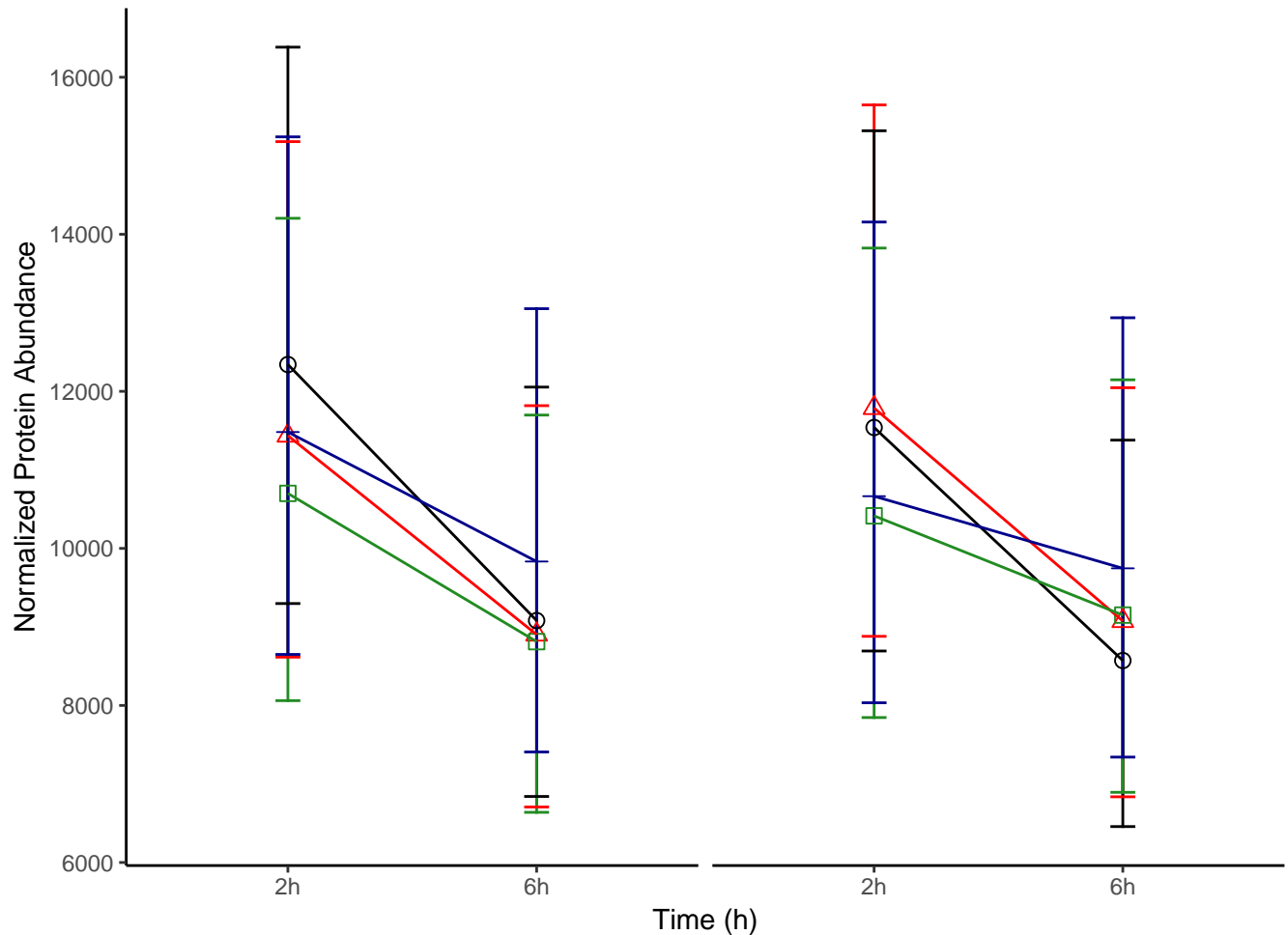


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATC\_STAAM

TSB

TSB-dex S-128



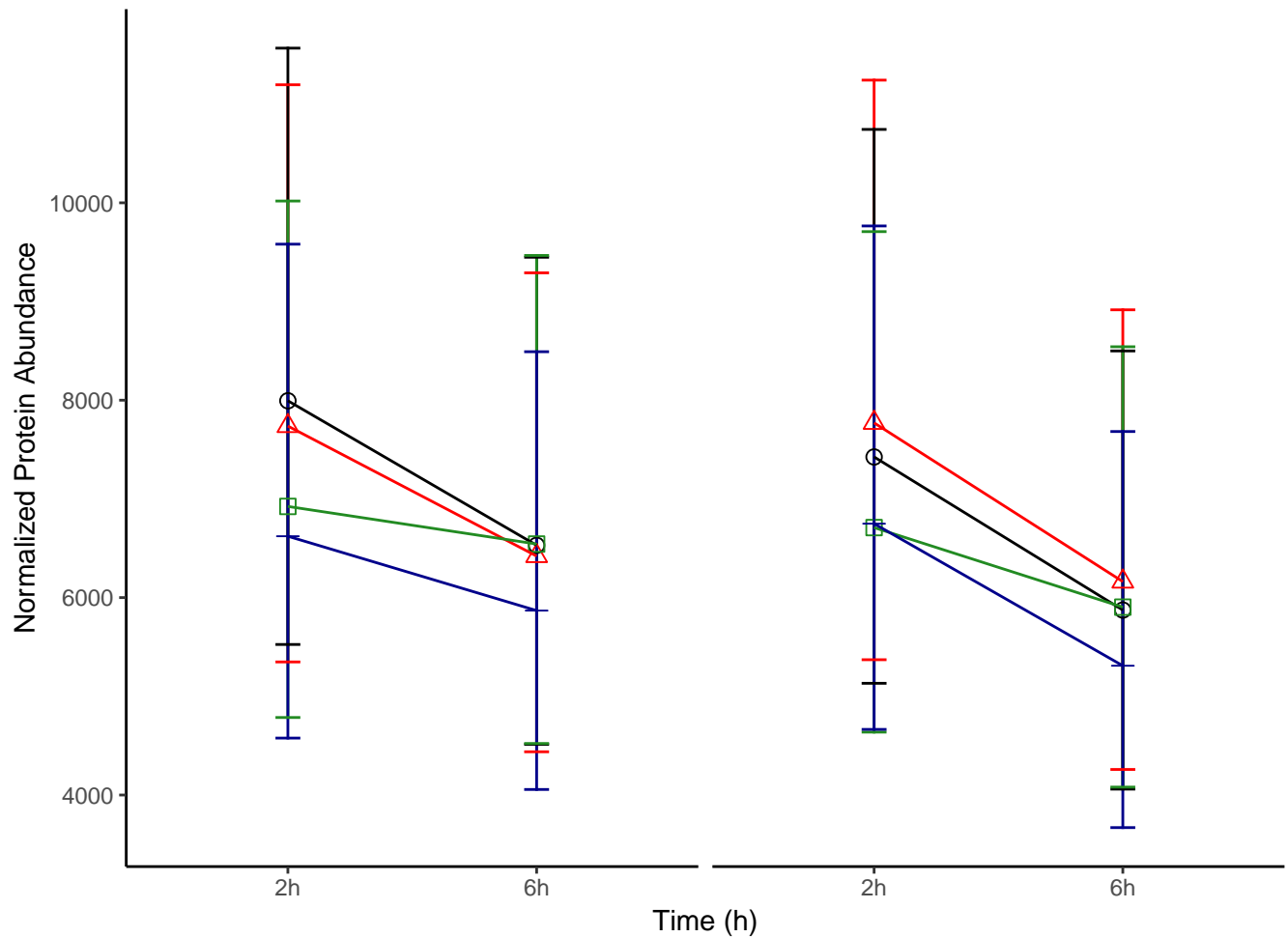
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GCH4\_STAAM

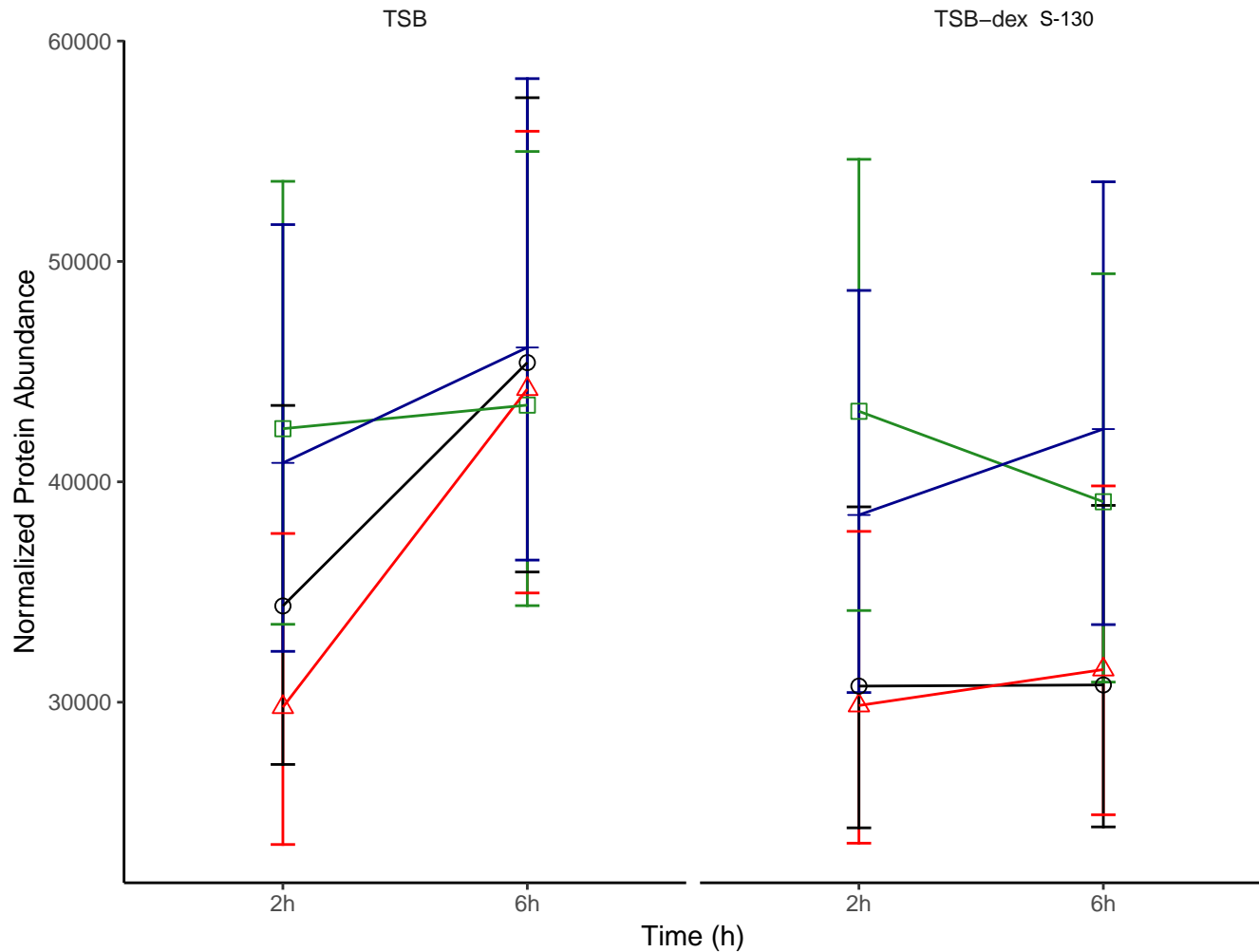
TSB

TSB-dex S-129



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GCSH\_STAAM

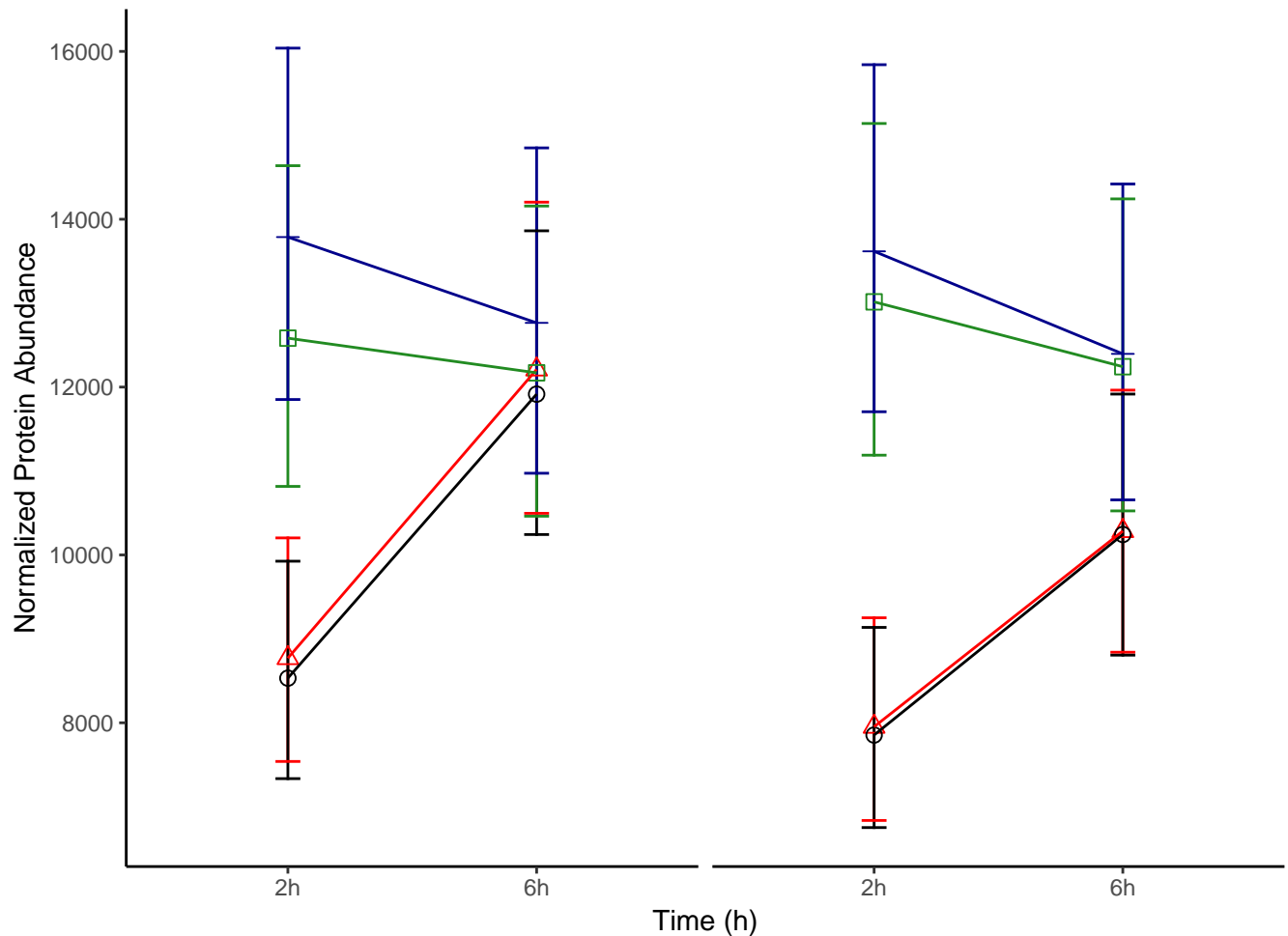


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GCSPA\_STAAM

TSB

TSB-dex S-131

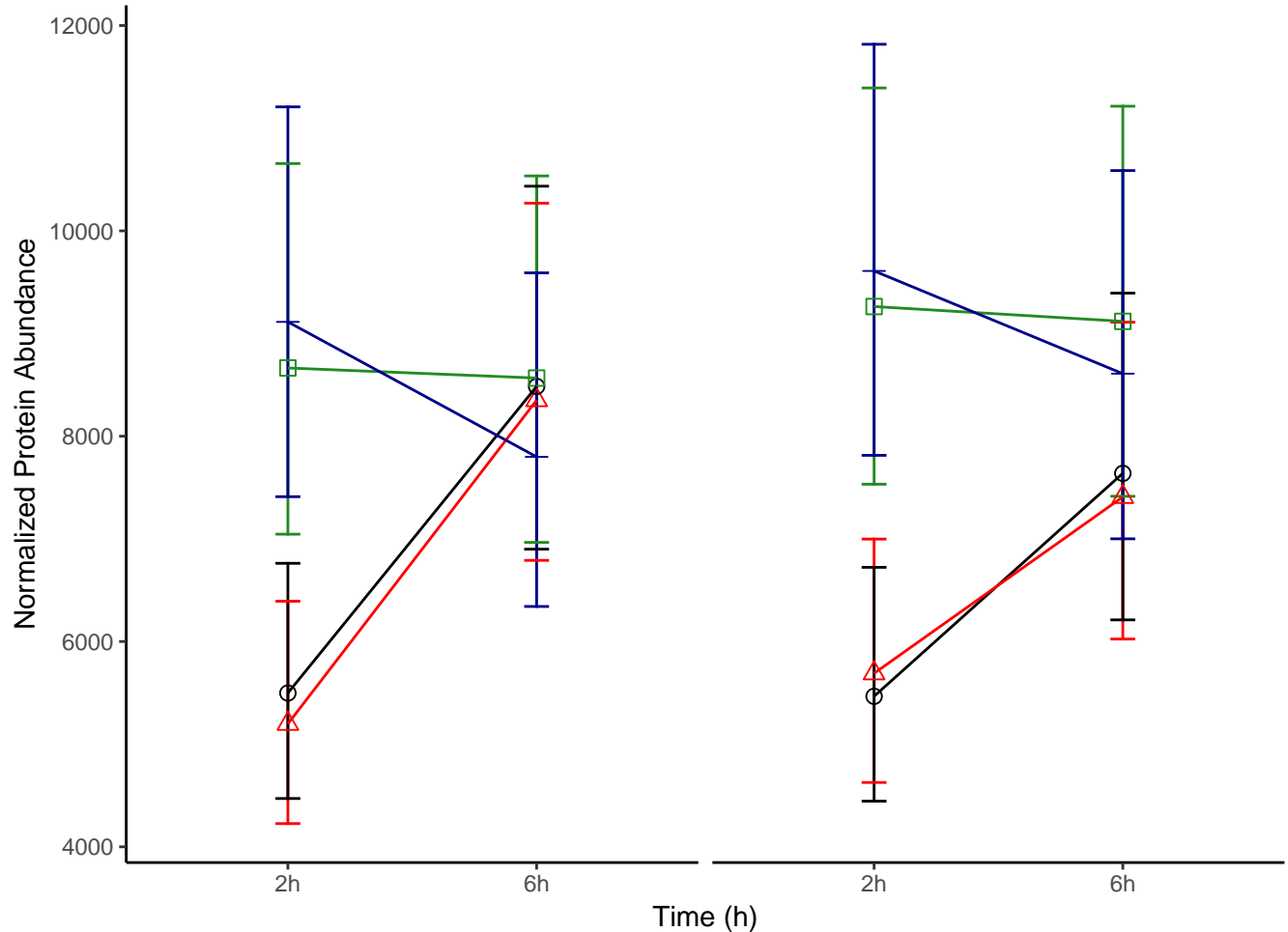


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GCSPB\_STAAM

TSB

TSB-dex S-132

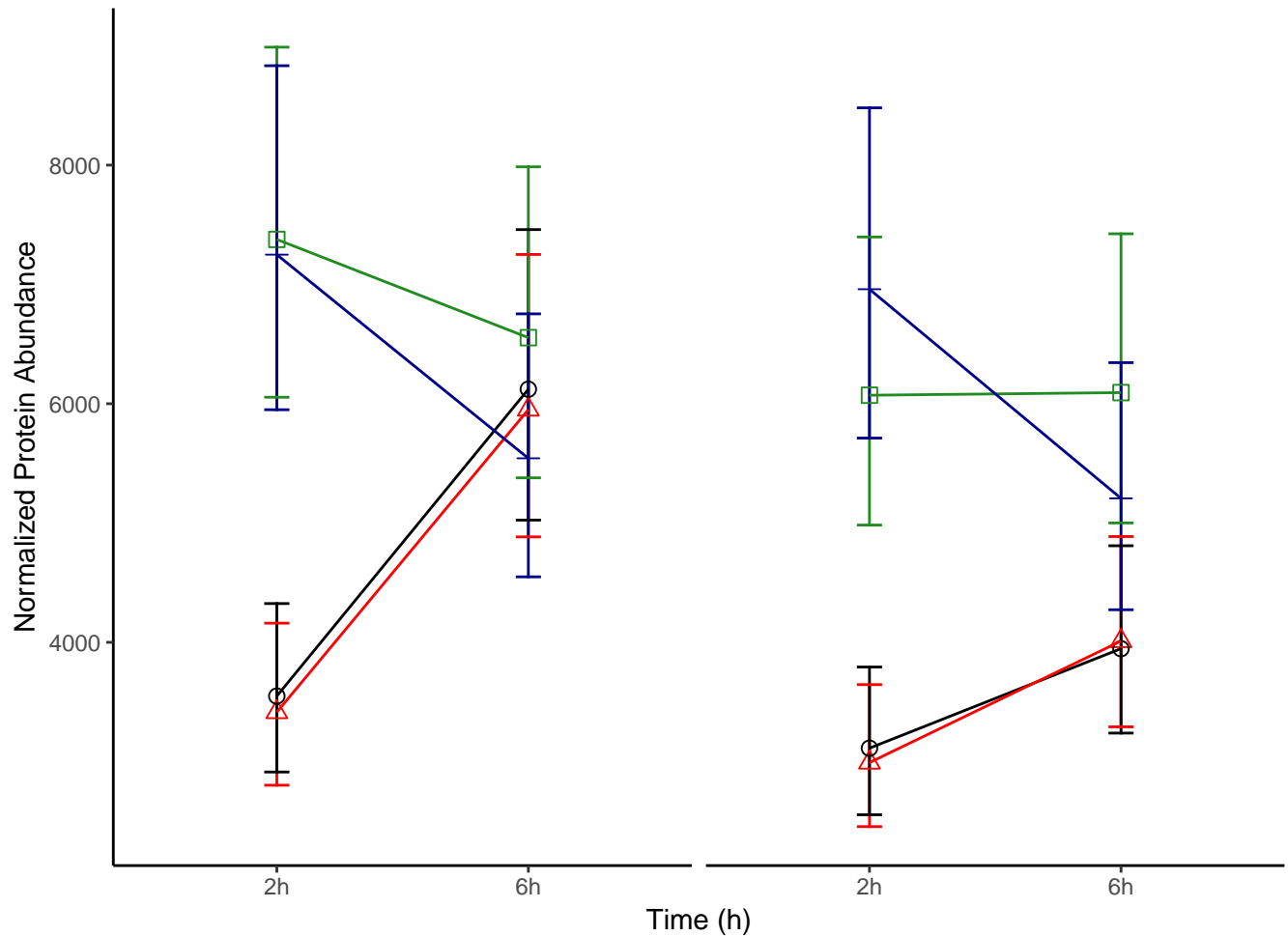


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GCST\_STAAM

TSB

TSB-dex S-133

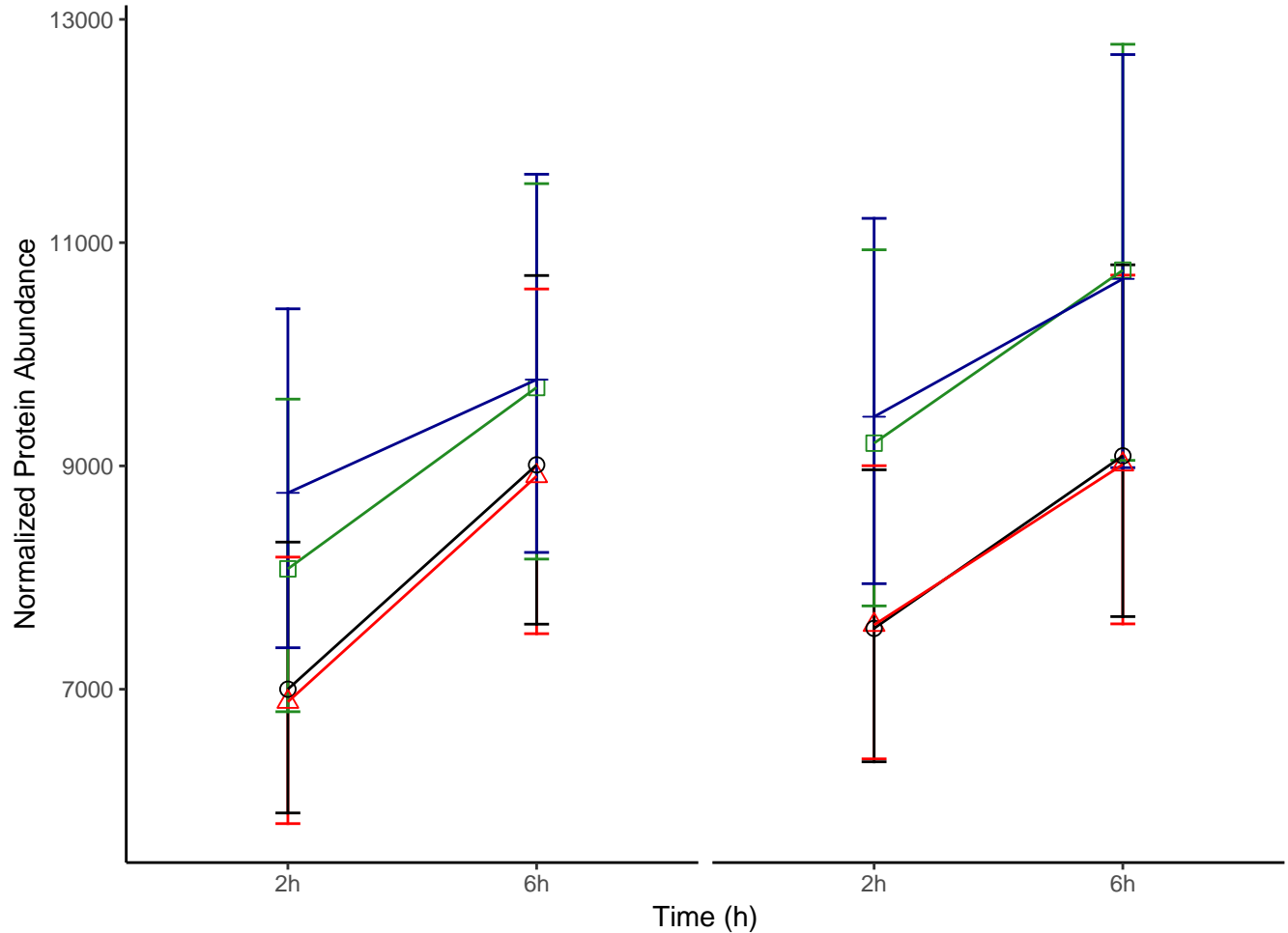


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLMM\_STAAM

TSB

TSB-dex S-134

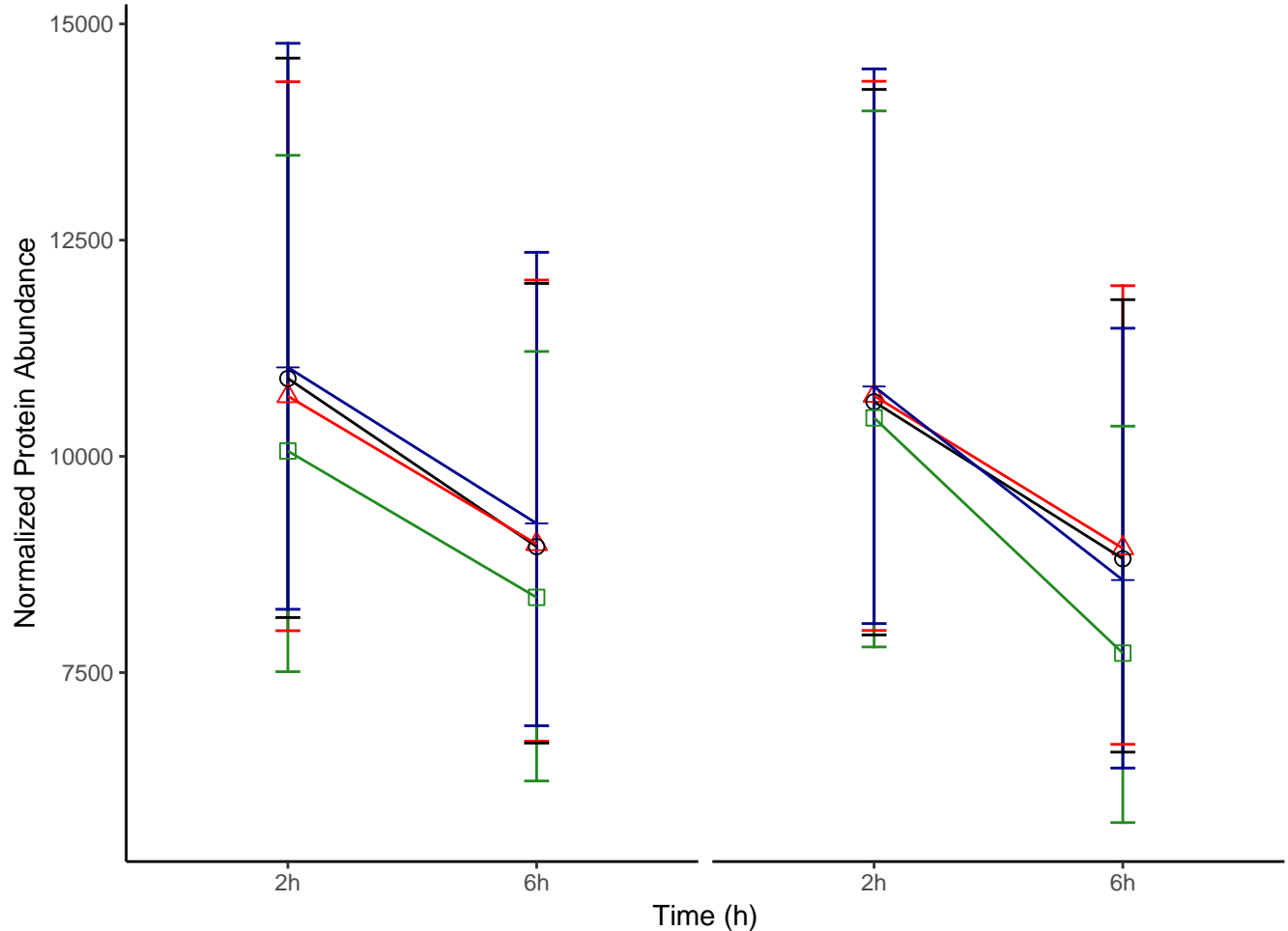


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLMS\_STAAM

TSB

TSB-dex S-135

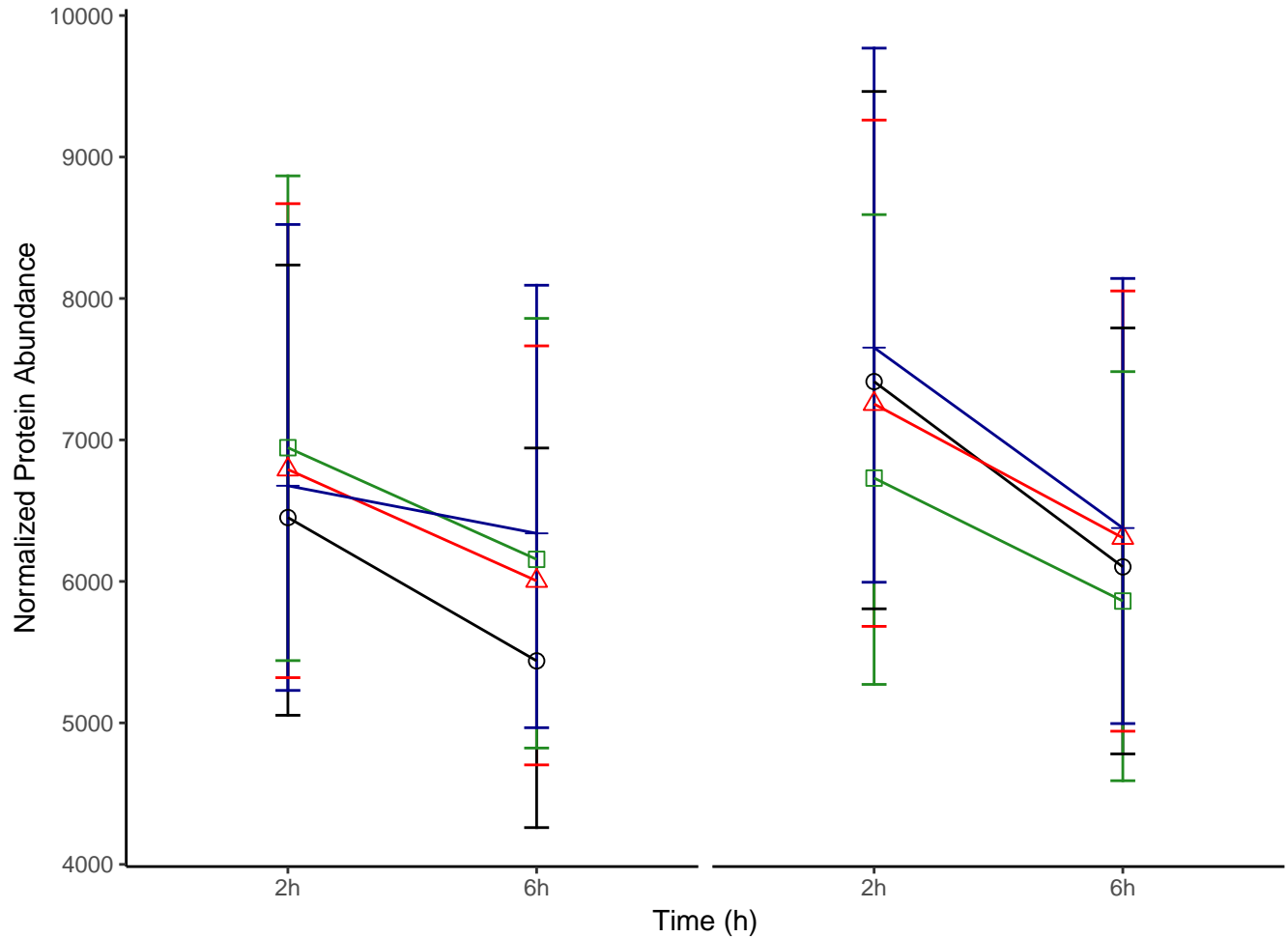


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLMU\_STAAM

TSB

TSB-dex S-136



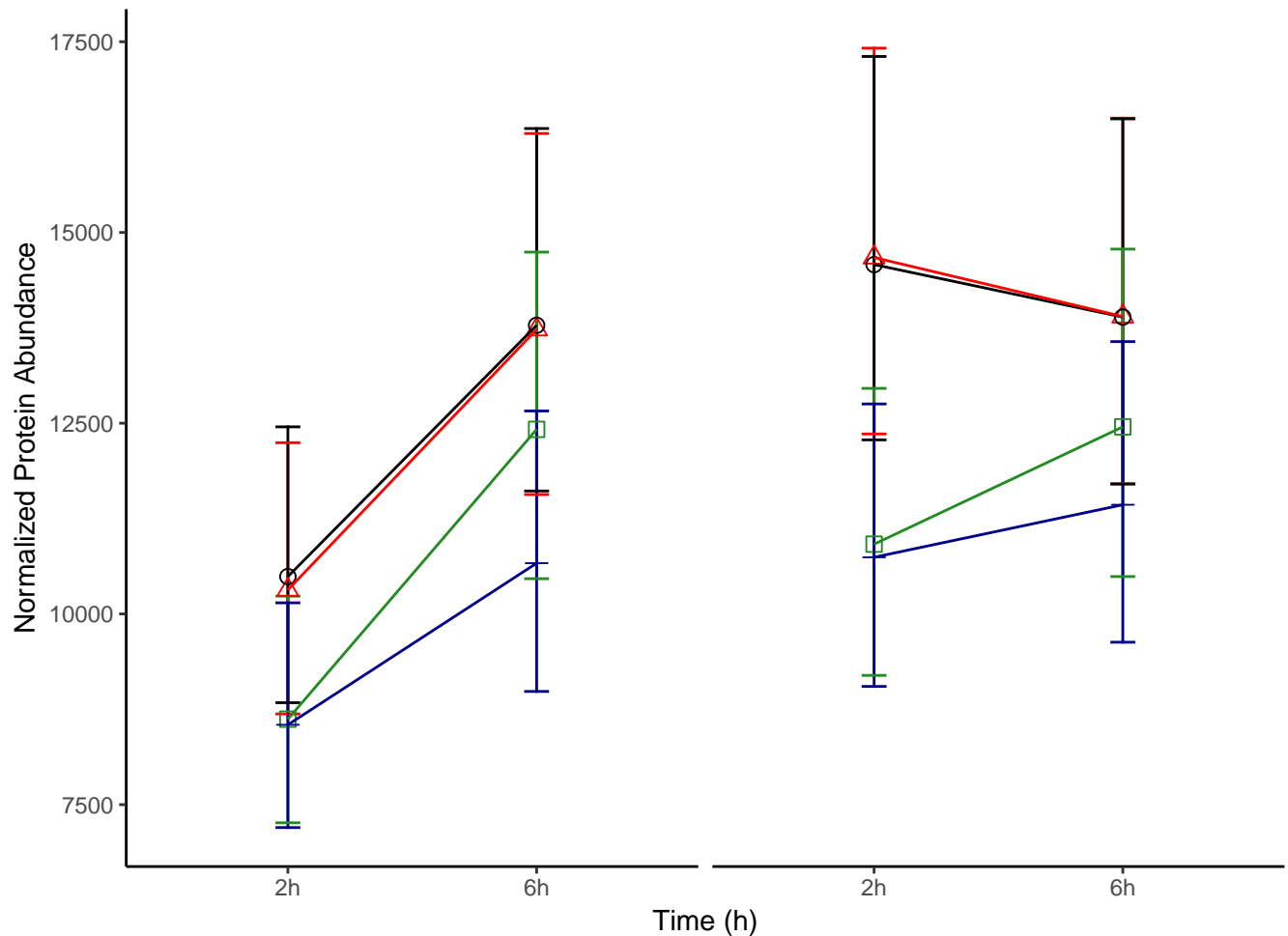
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# GLNA\_STAAM

TSB

TSB-dex S-137

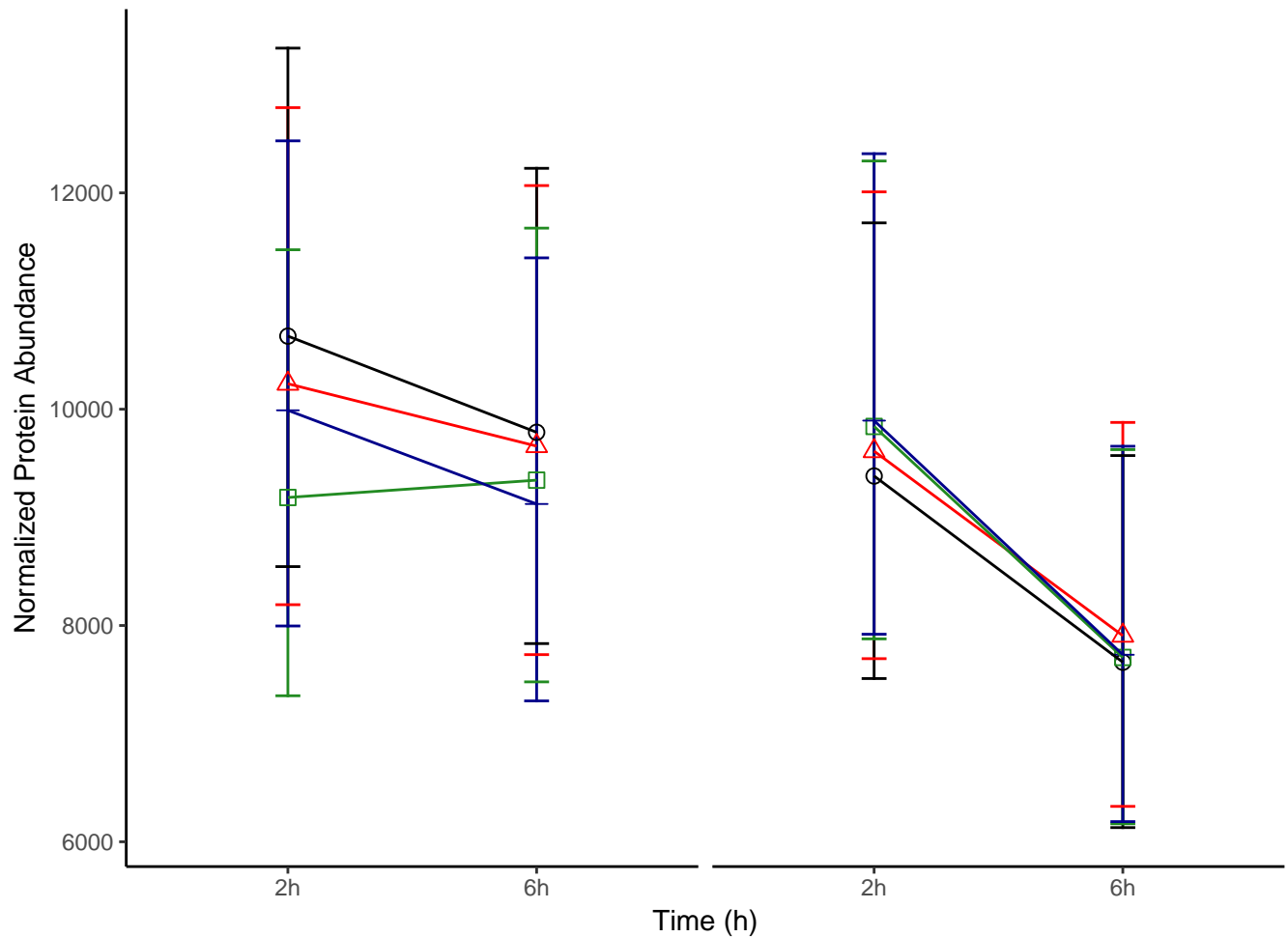


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLPD\_STAAM

TSB

TSB-dex S-138

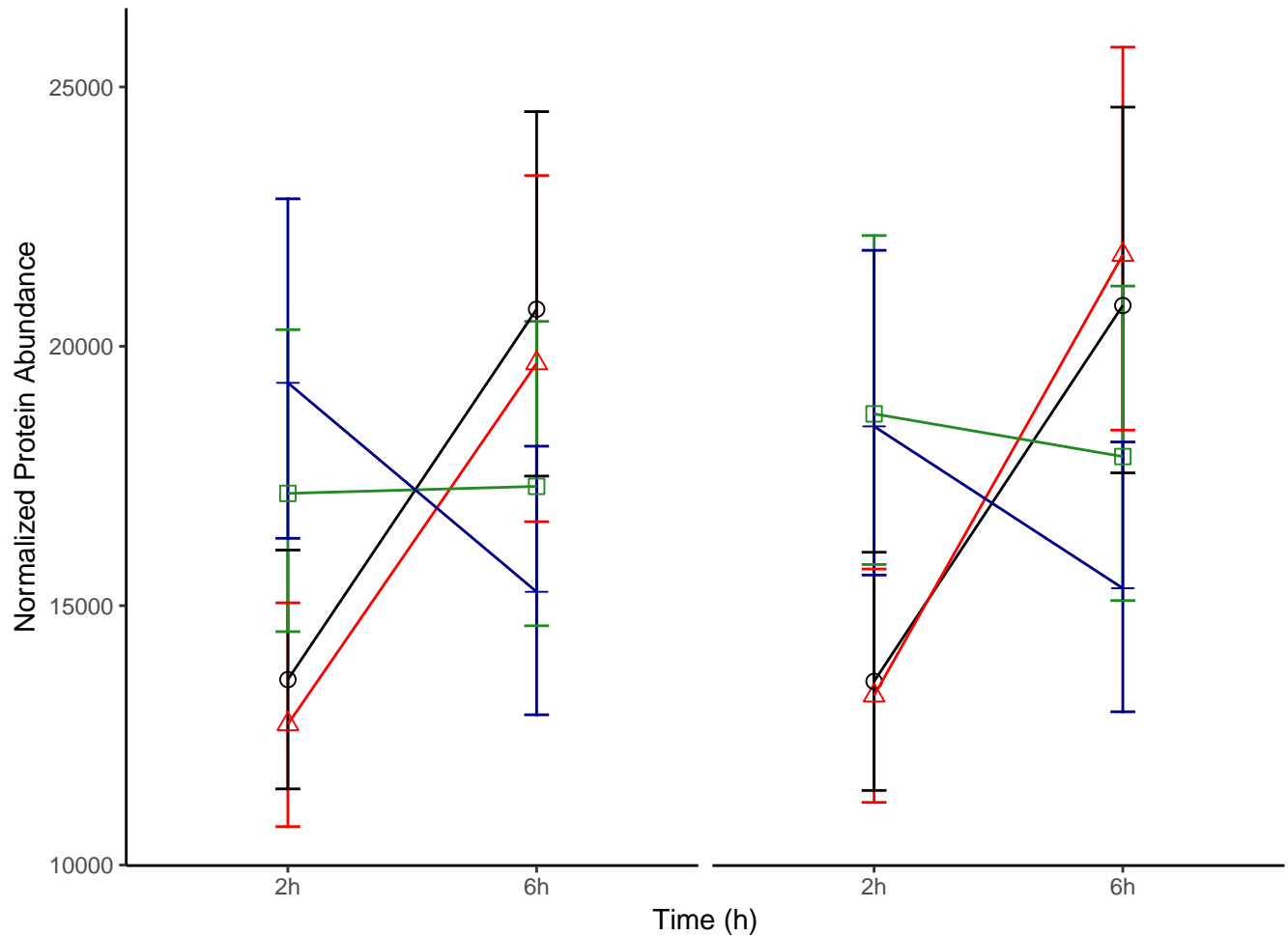


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLPK\_STAAM

TSB

TSB-dex S-139

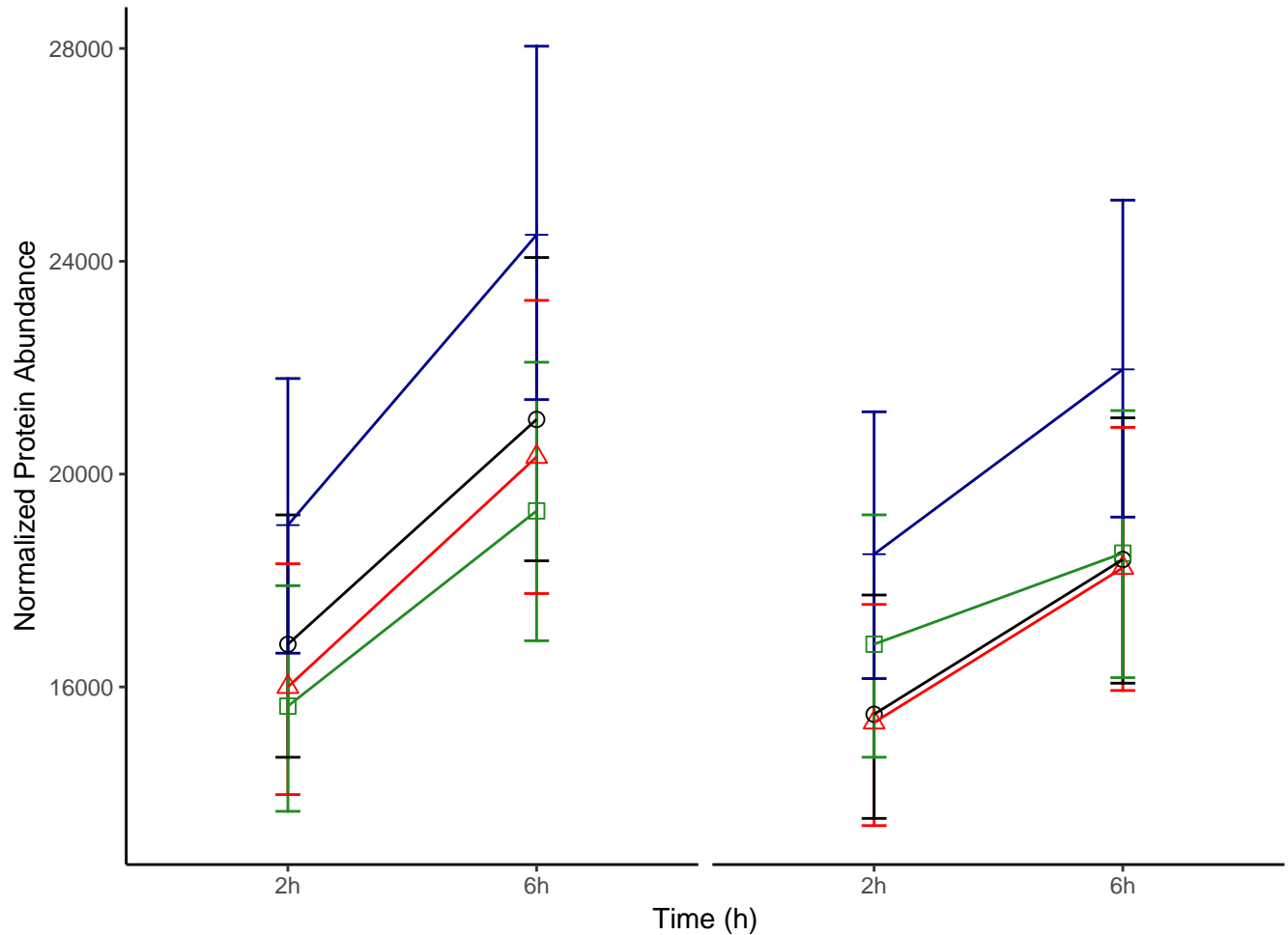


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLYA\_STAAM

TSB

TSB-dex S-140

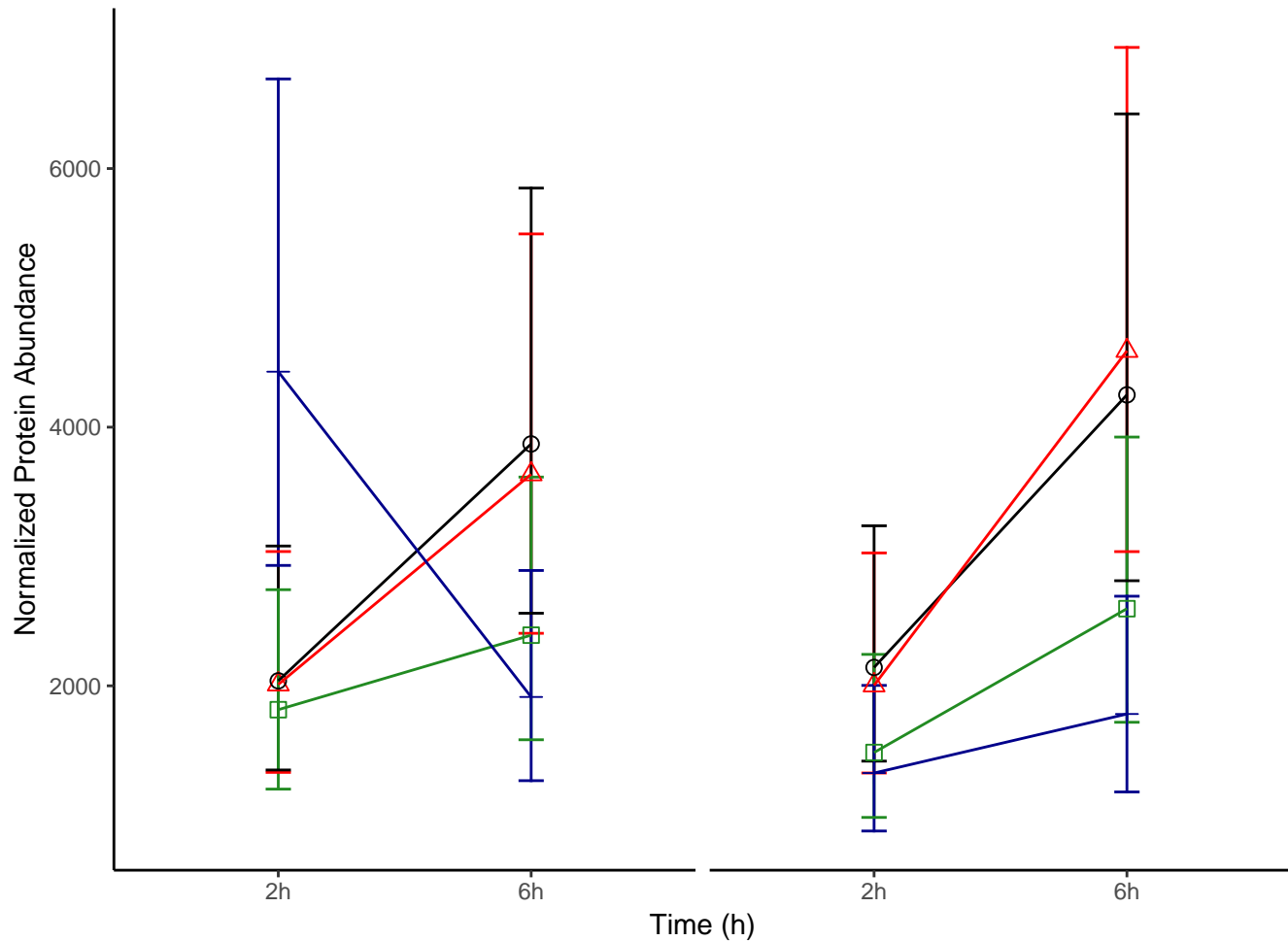


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GPDA\_STAAM

TSB

TSB-dex S-141

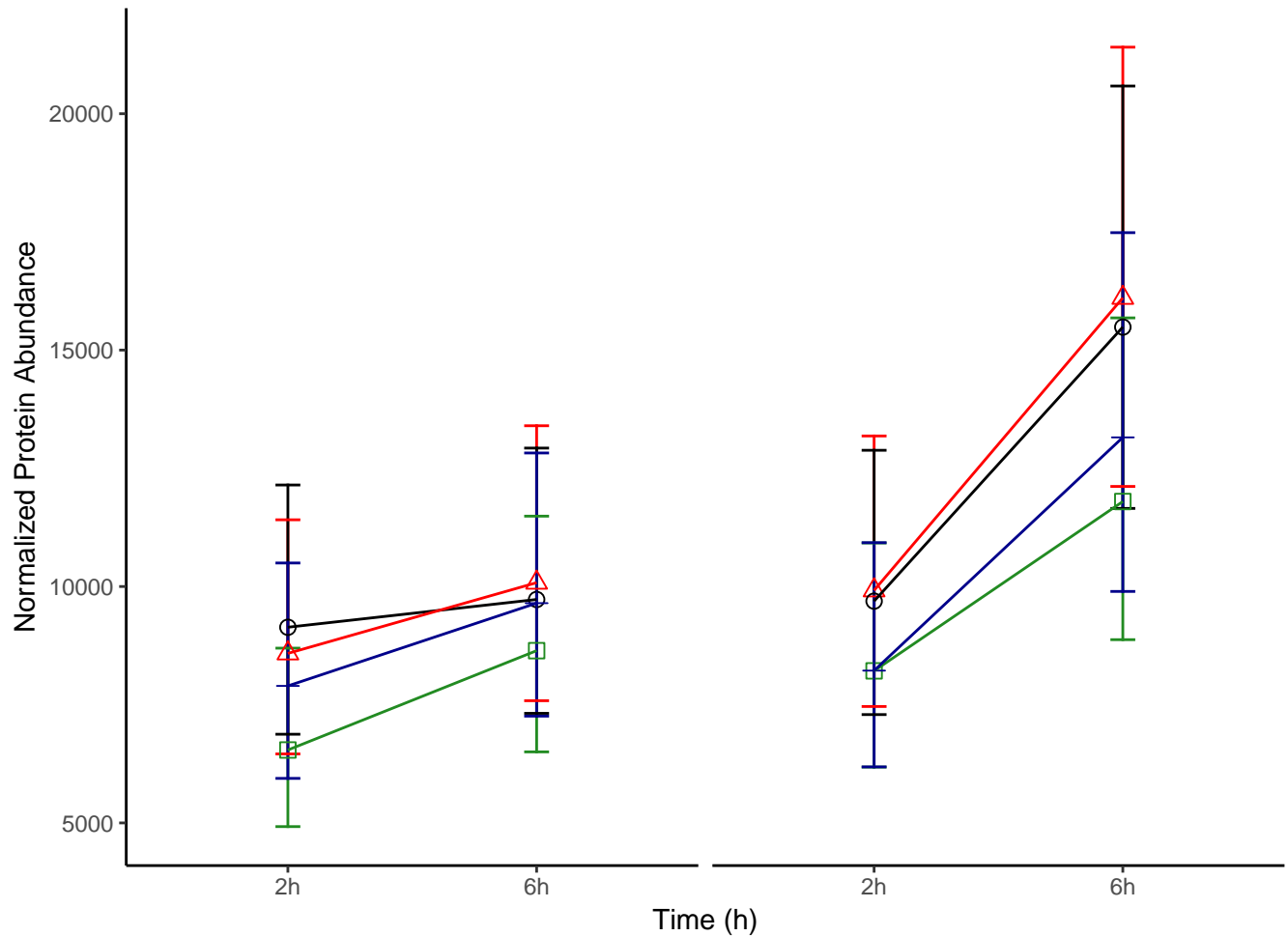


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GPMA\_STAAM

TSB

TSB-dex S-142

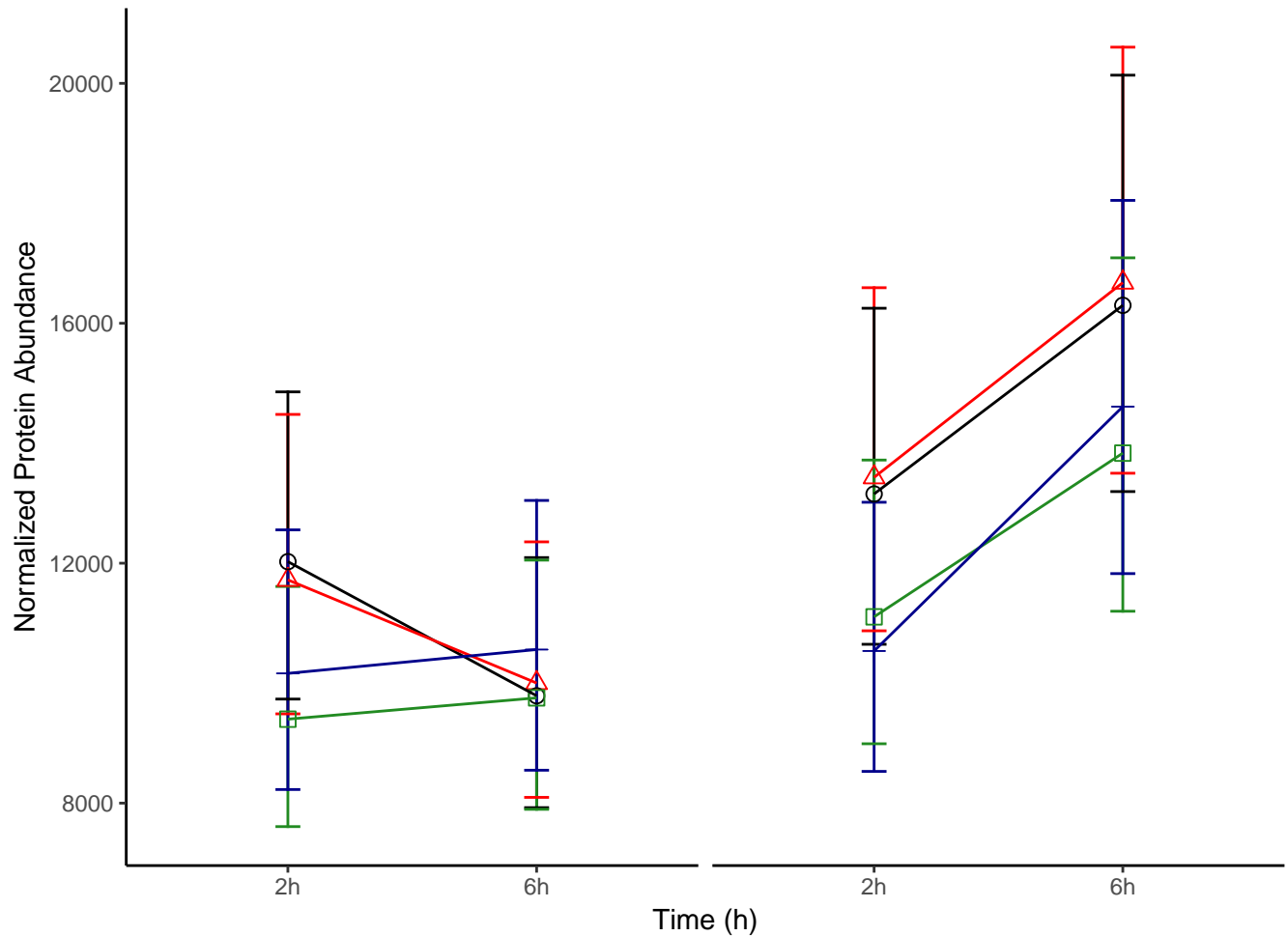


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GPMI\_STAAM

TSB

TSB-dex S-143

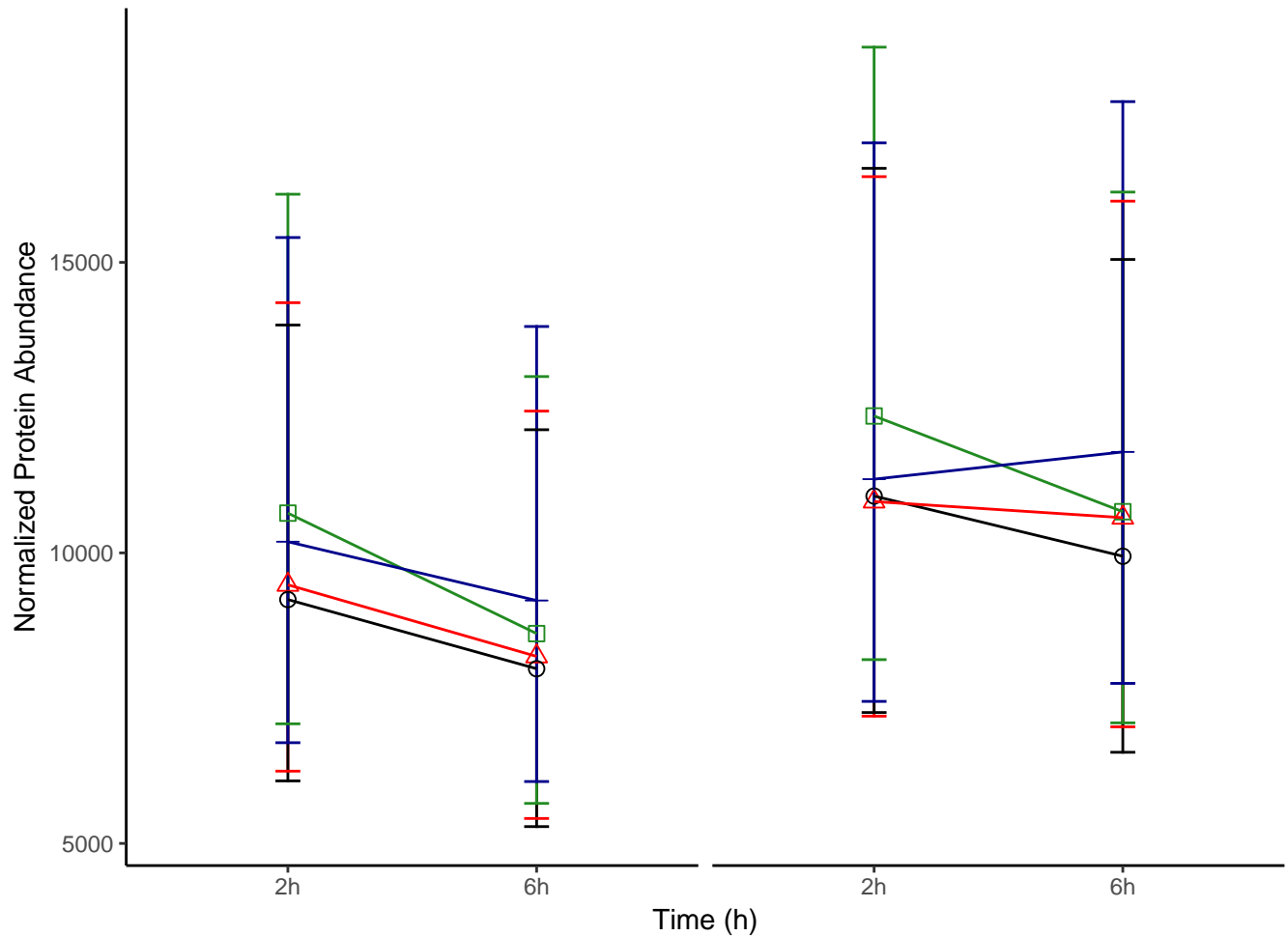


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GPSB\_STAAM

TSB

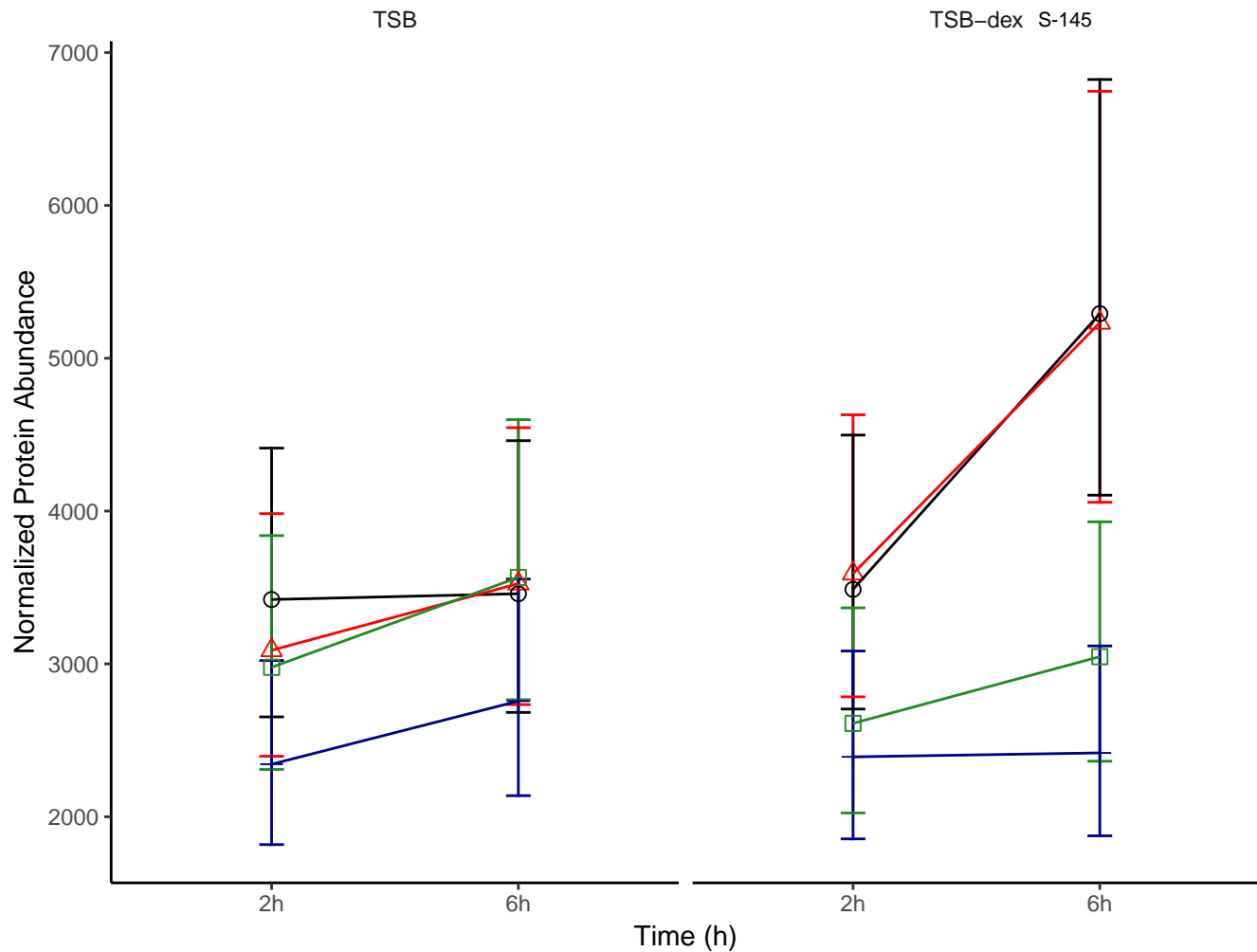
TSB-dex S-144



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# GRAR\_STAAM

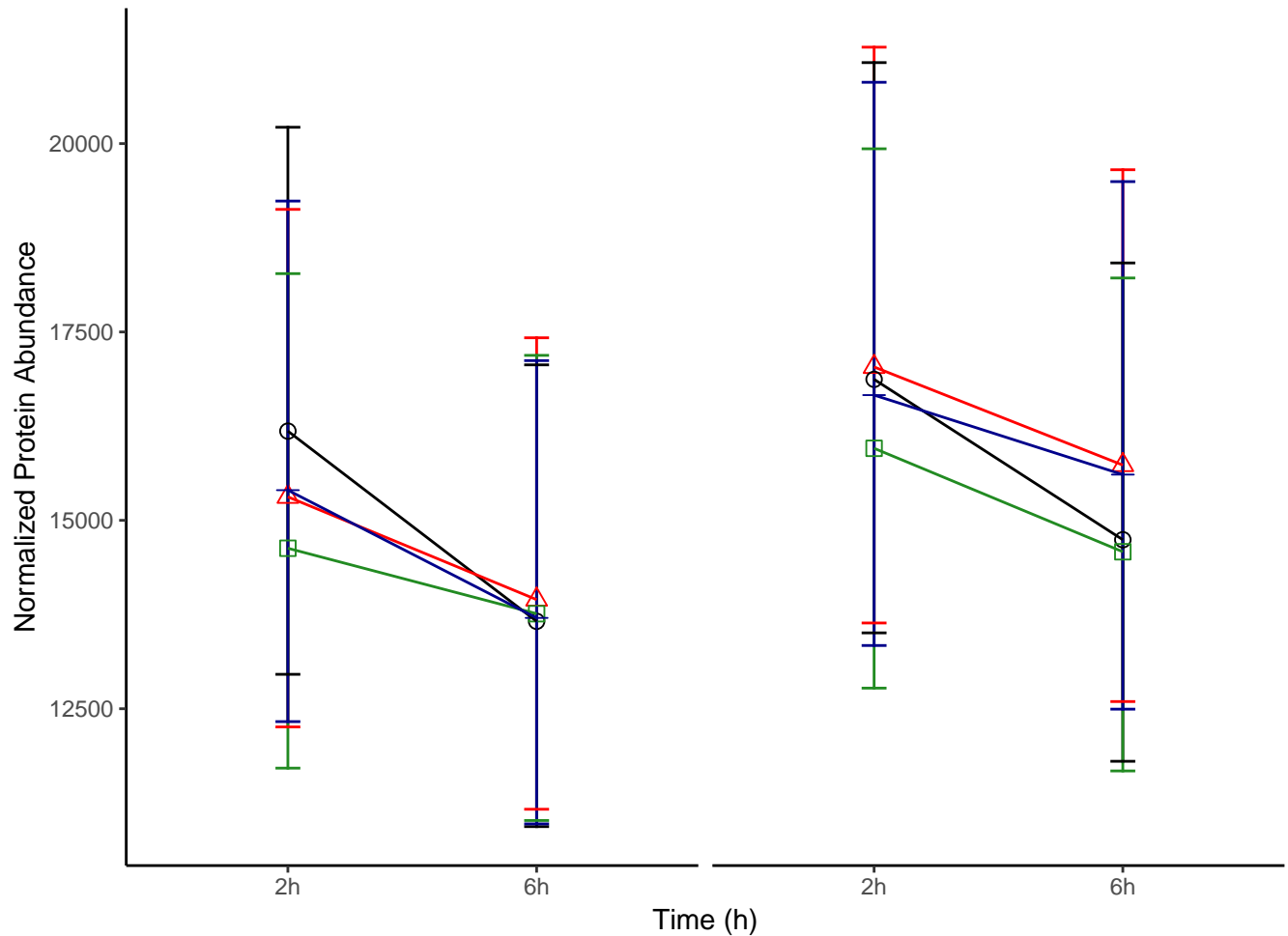


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GREY\_STAAM

TSB

TSB-dex S-146

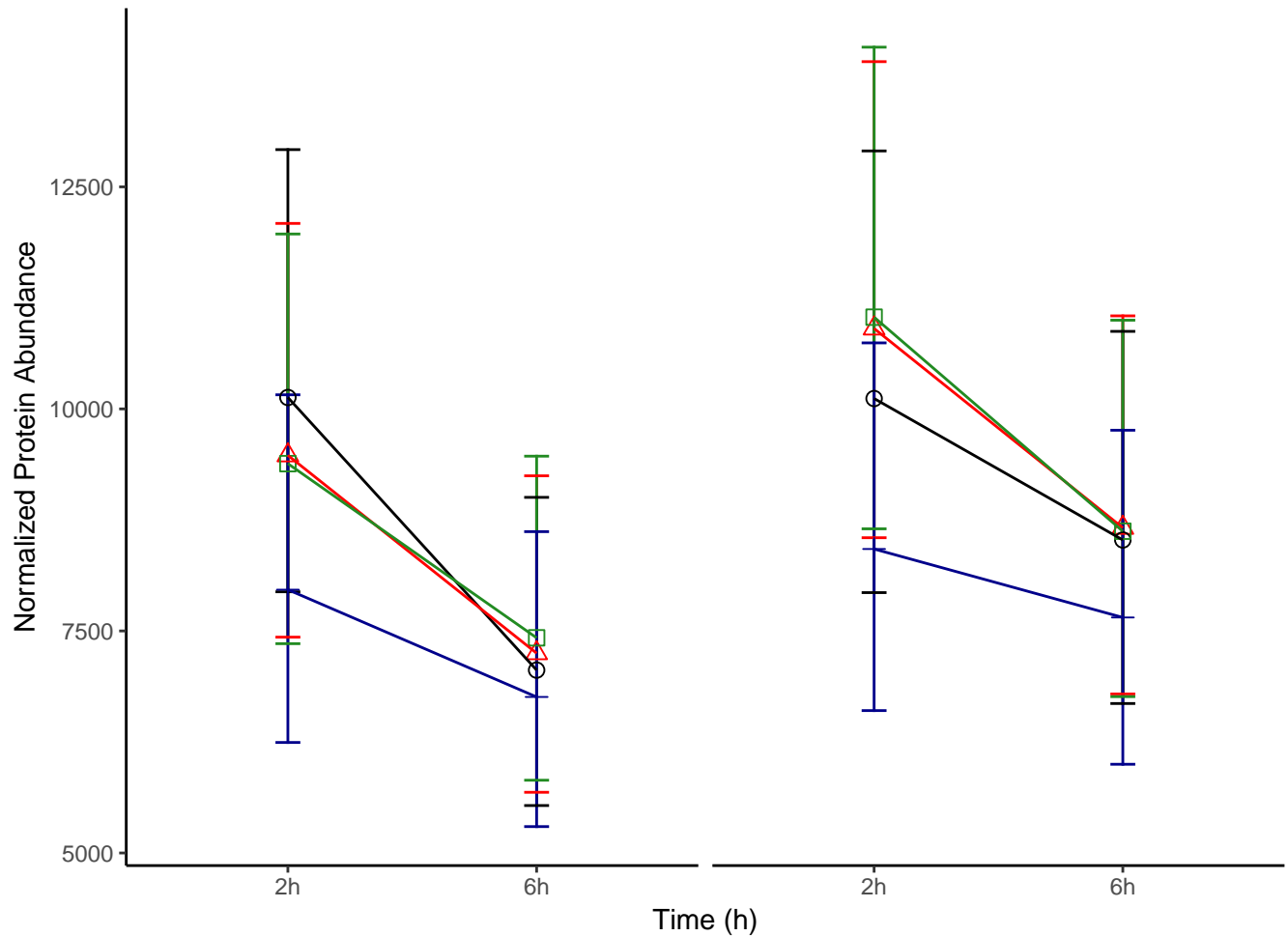


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## GRPE\_STAAM

TSB

TSB-dex S-147

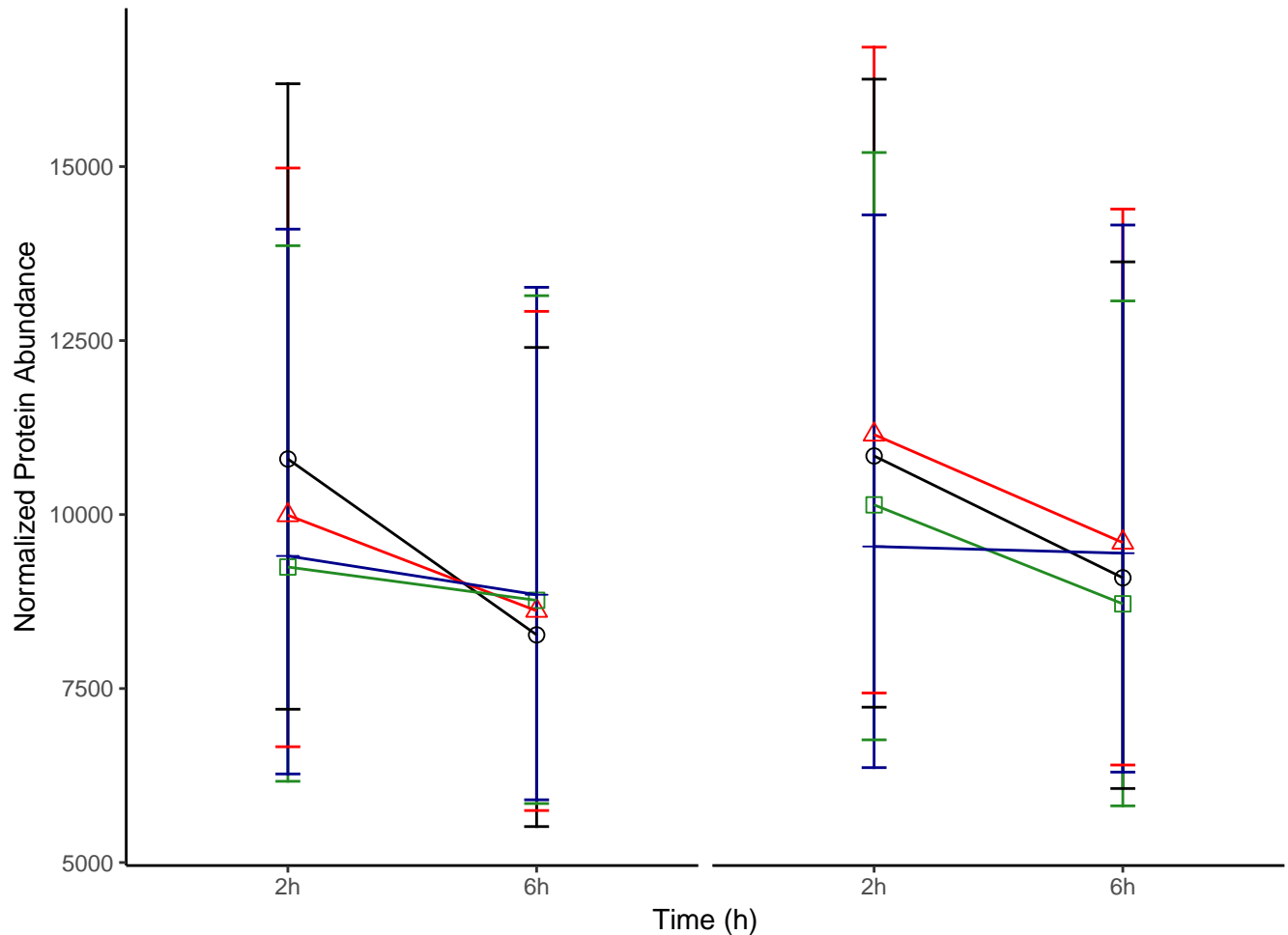


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GSA1\_STAAM

TSB

TSB-dex S-148

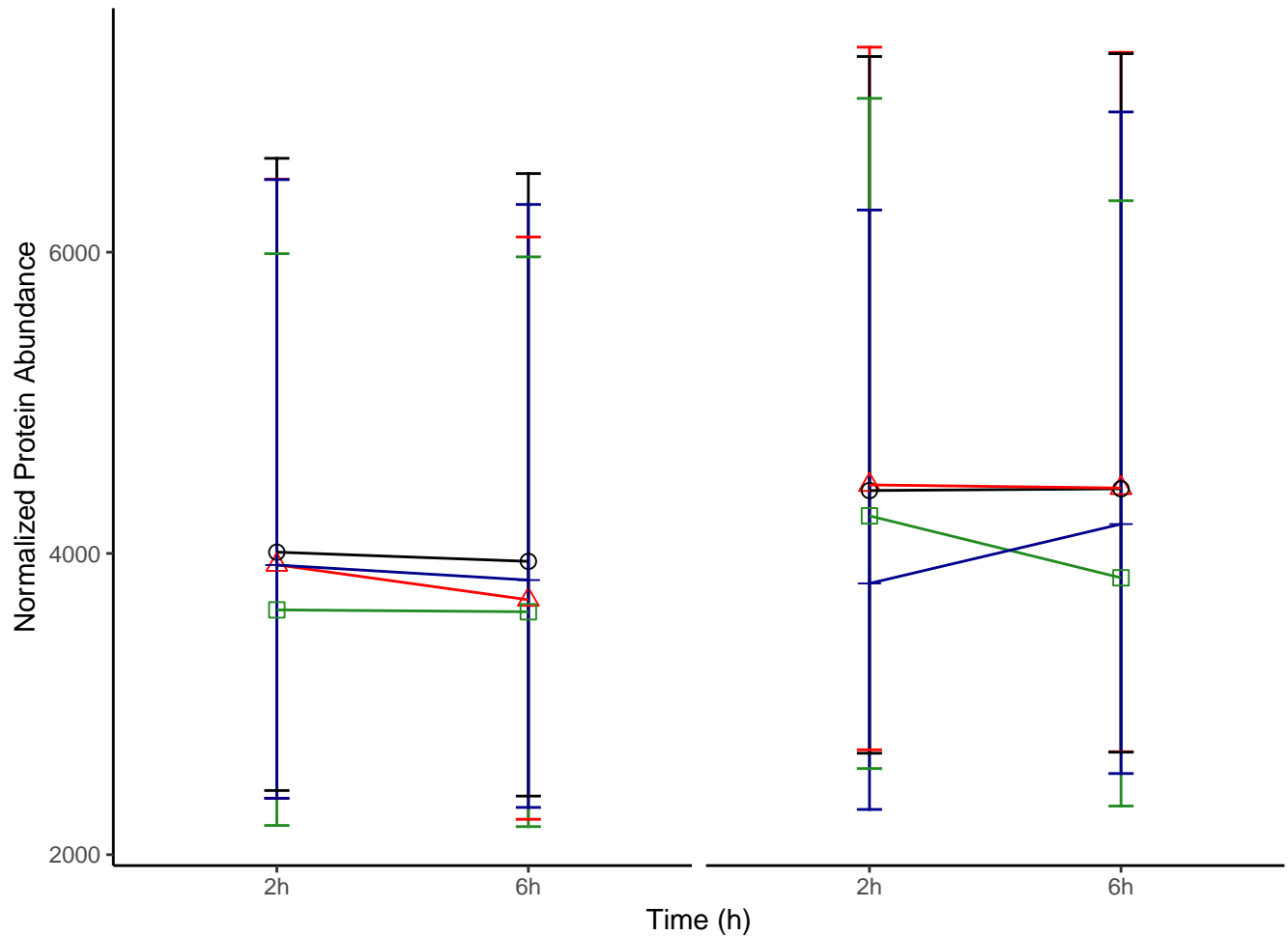


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GSA2\_STAAM

TSB

TSB-dex S-149

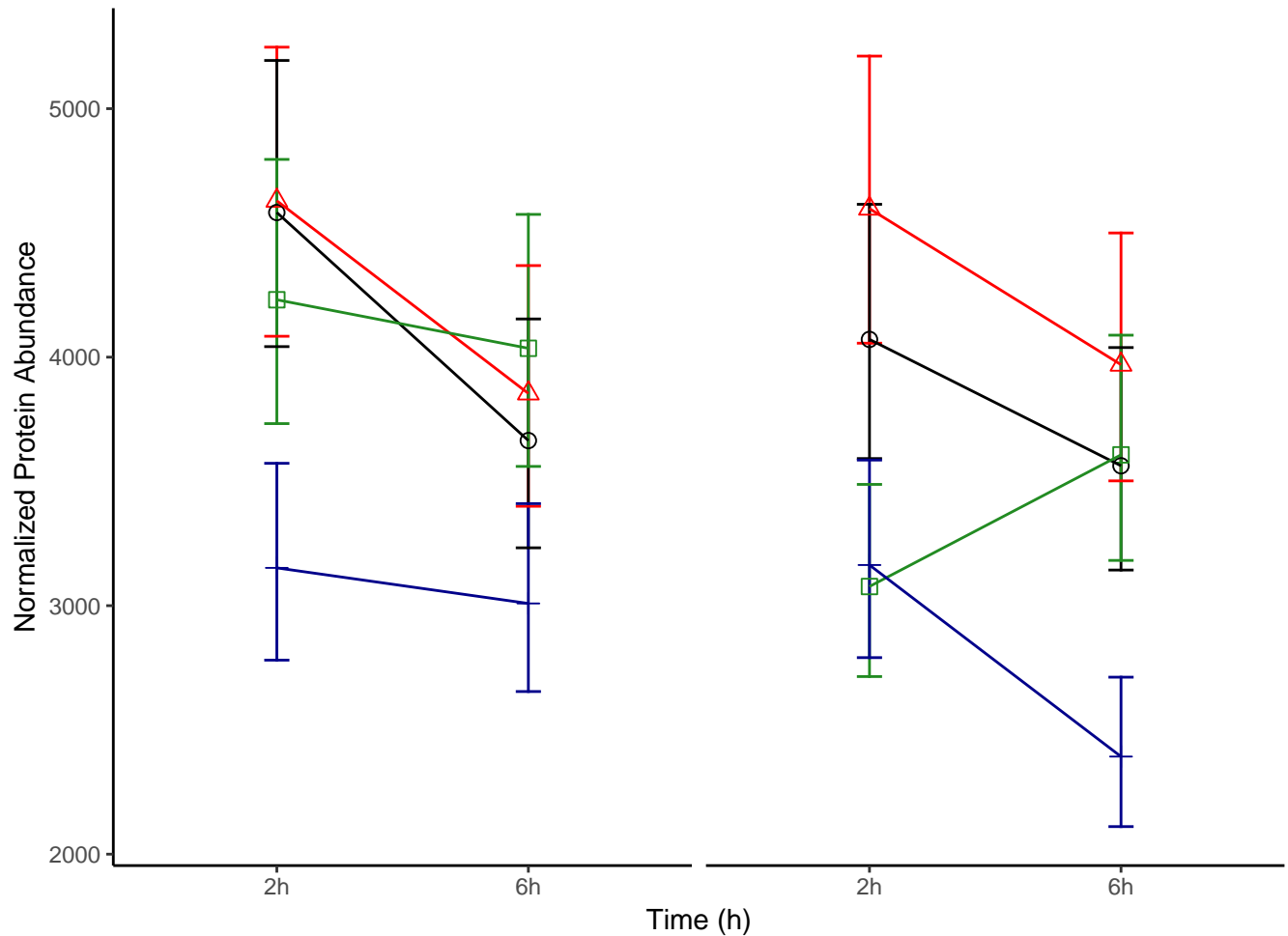


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GTAB\_STAAM

TSB

TSB-dex S-150

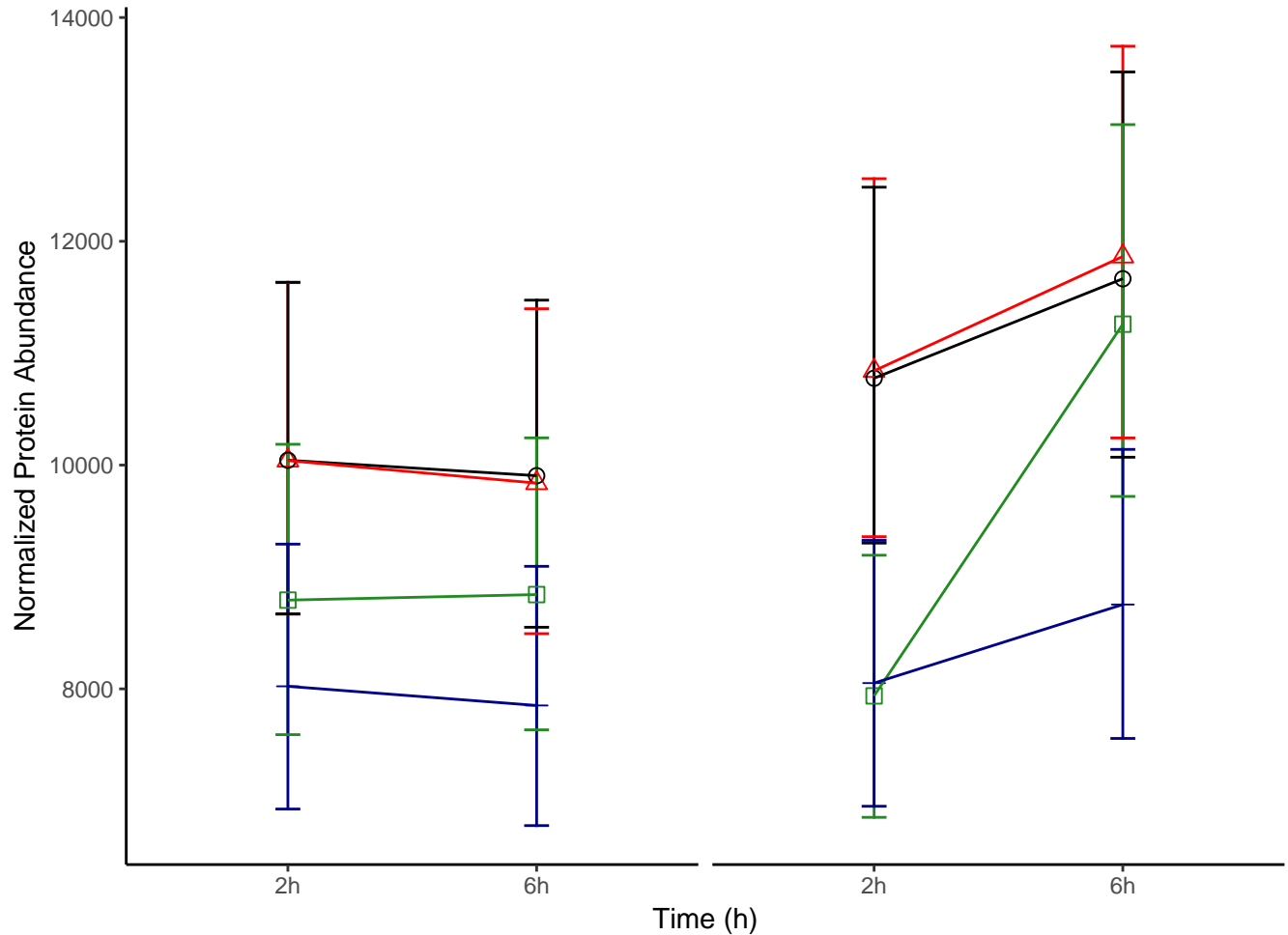


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GUAA\_STAAM

TSB

TSB-dex S-151

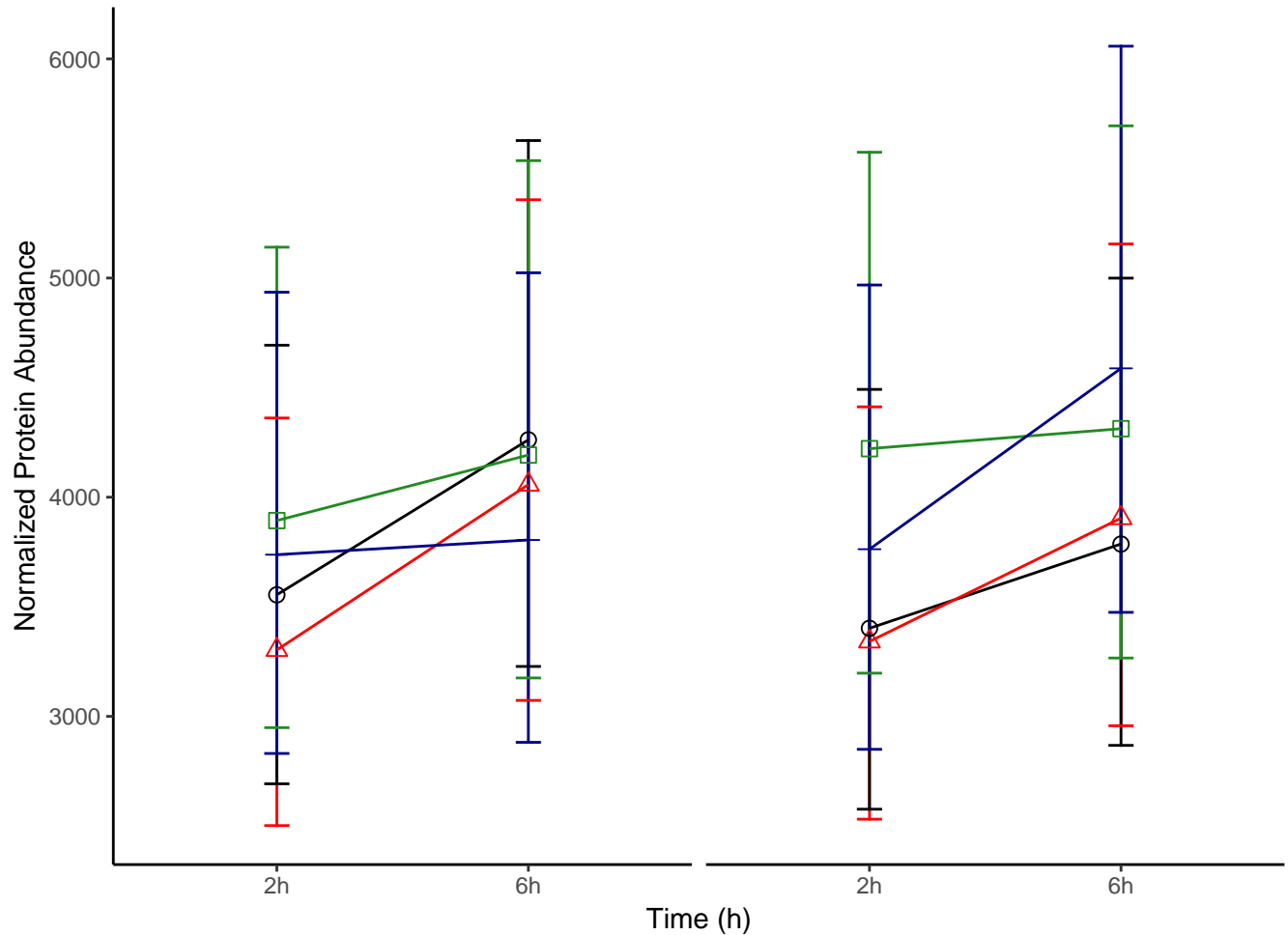


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# GUAC\_STAAM

TSB

TSB-dex S-152



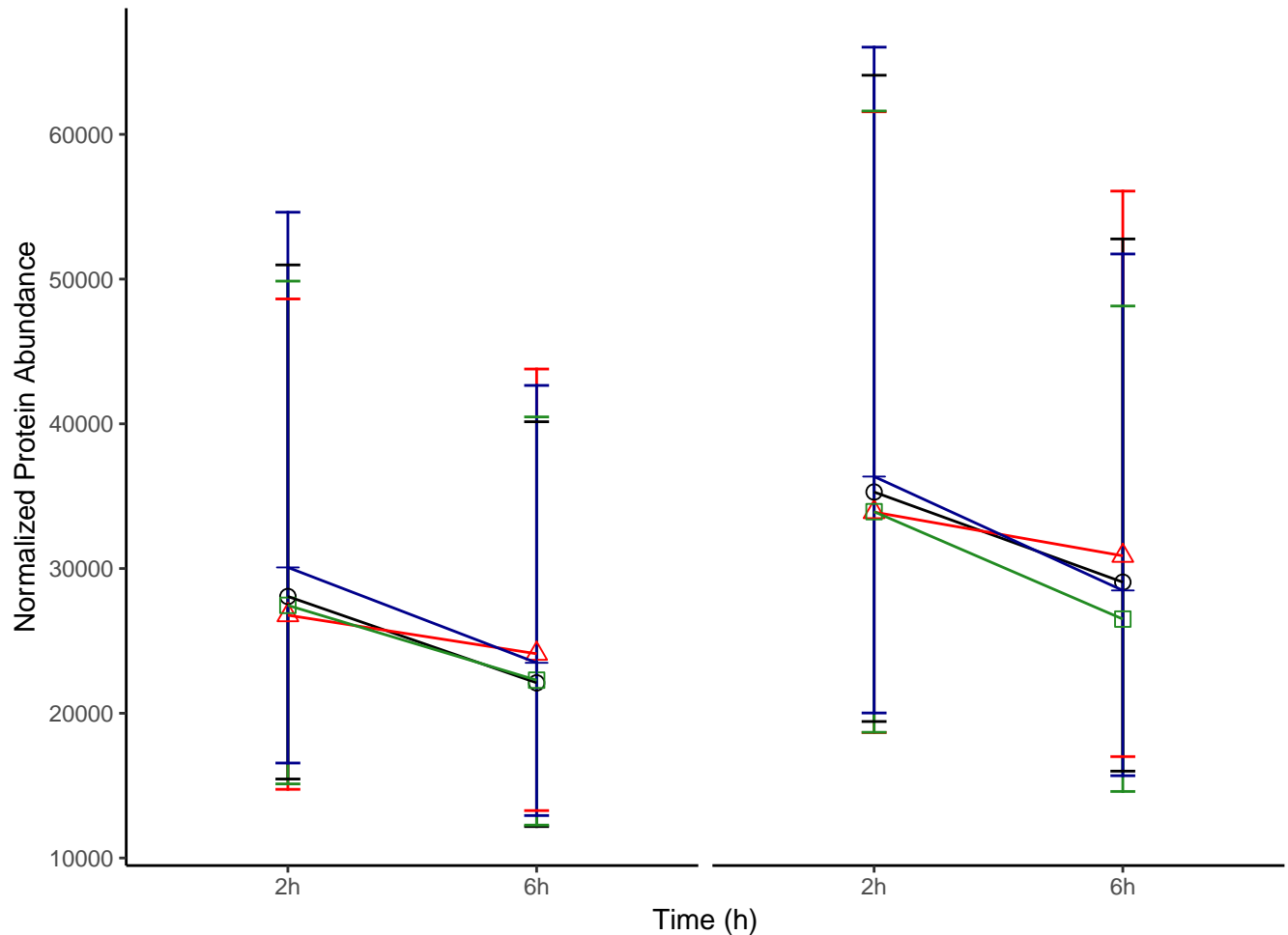
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GYRB\_STAAM

TSB

TSB-dex S-153

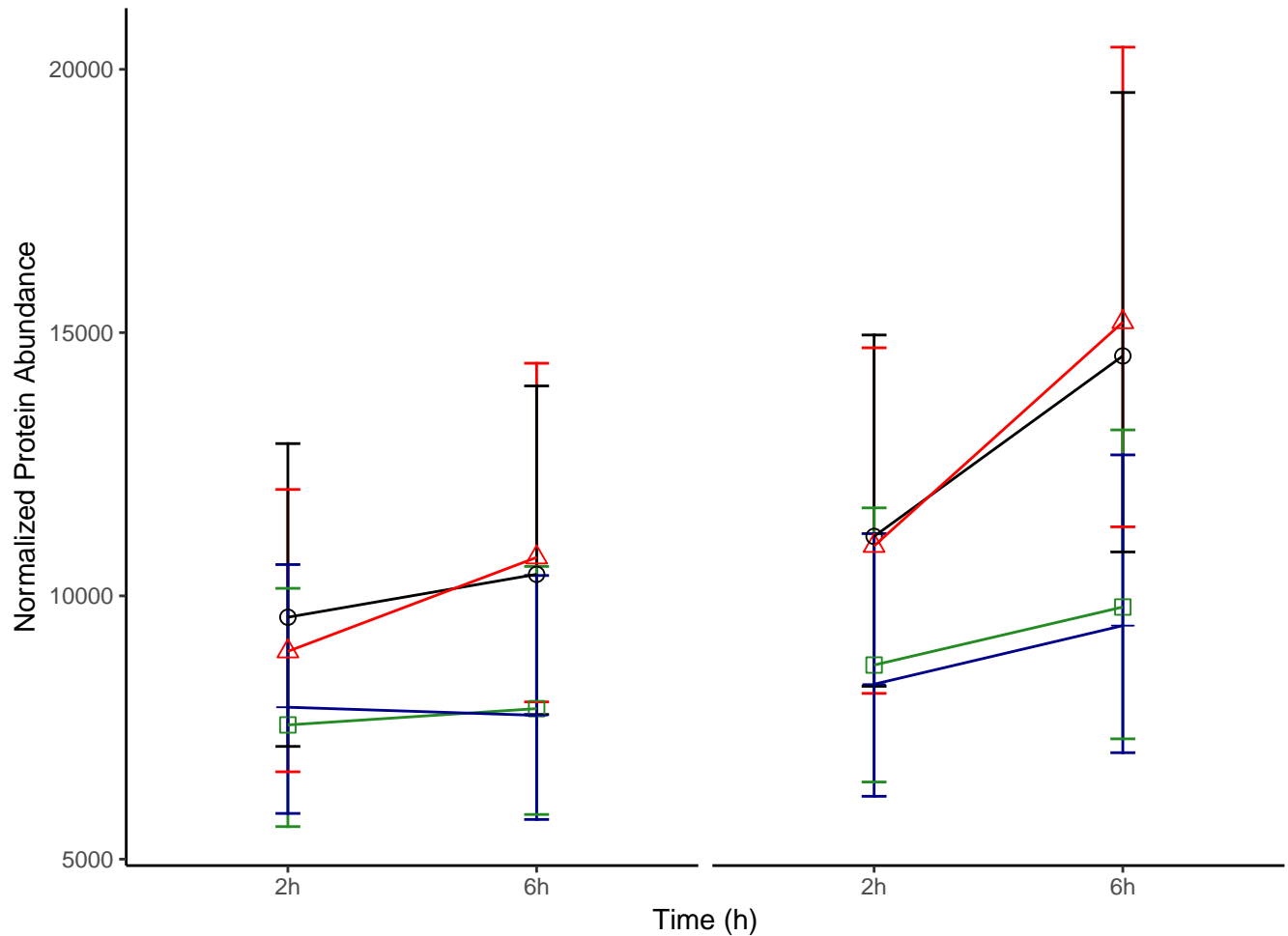


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HCHA\_STAAM

TSB

TSB-dex S-154

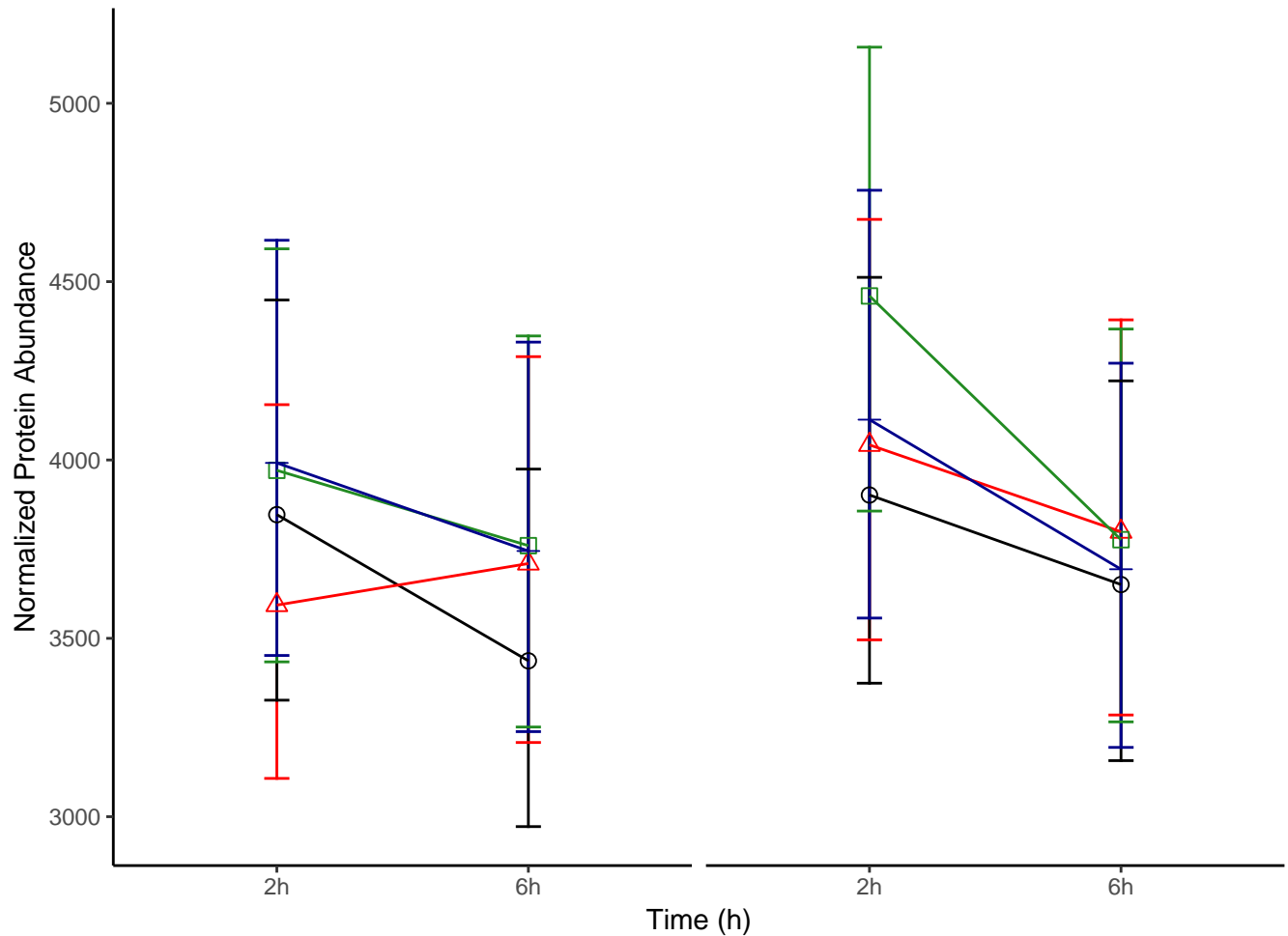


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HEM2\_STAAM

TSB

TSB-dex S-155

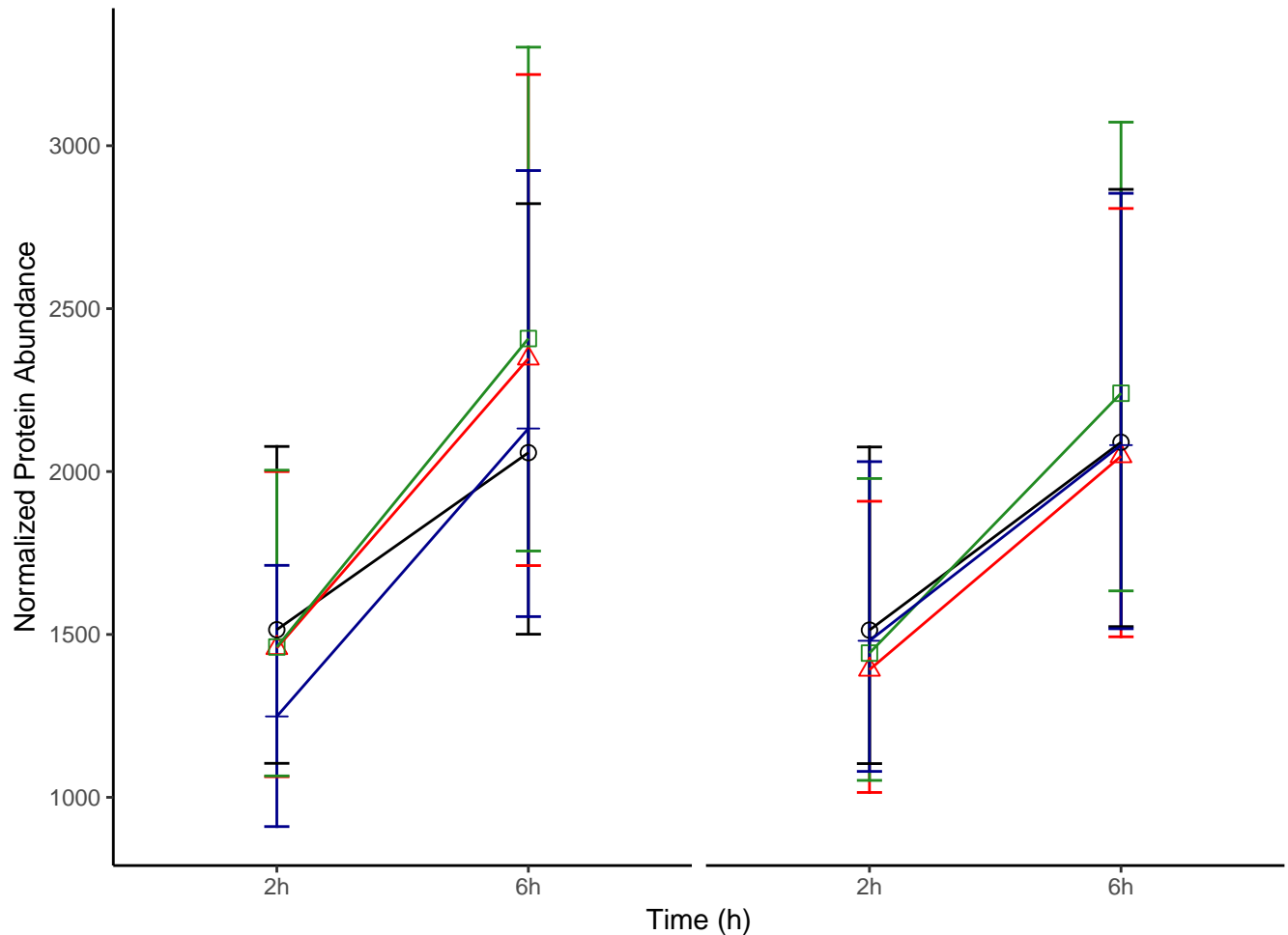


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HEM3\_STAAM

TSB

TSB-dex S-156

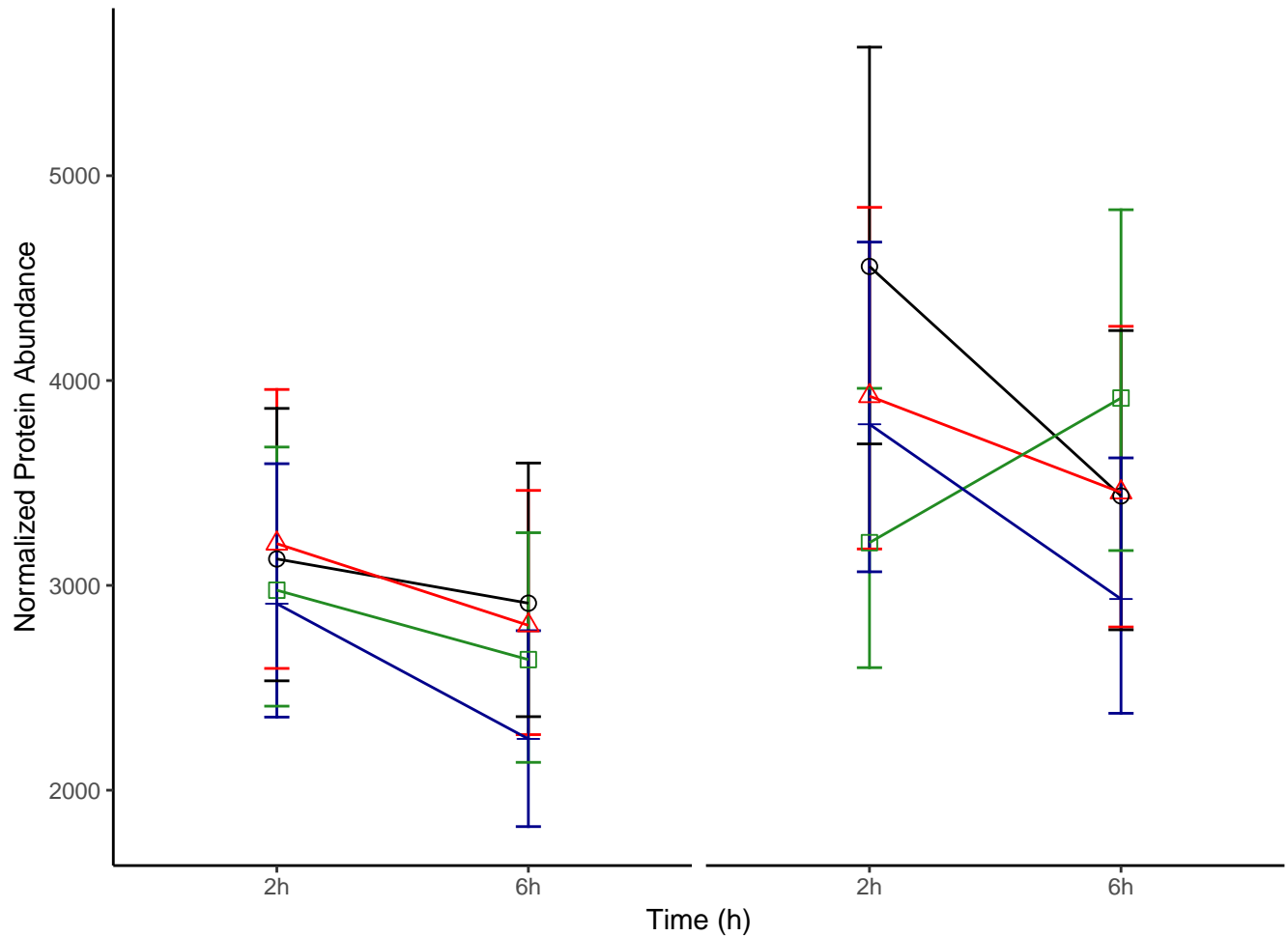


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HLD\_STAAM

TSB

TSB-dex S-157

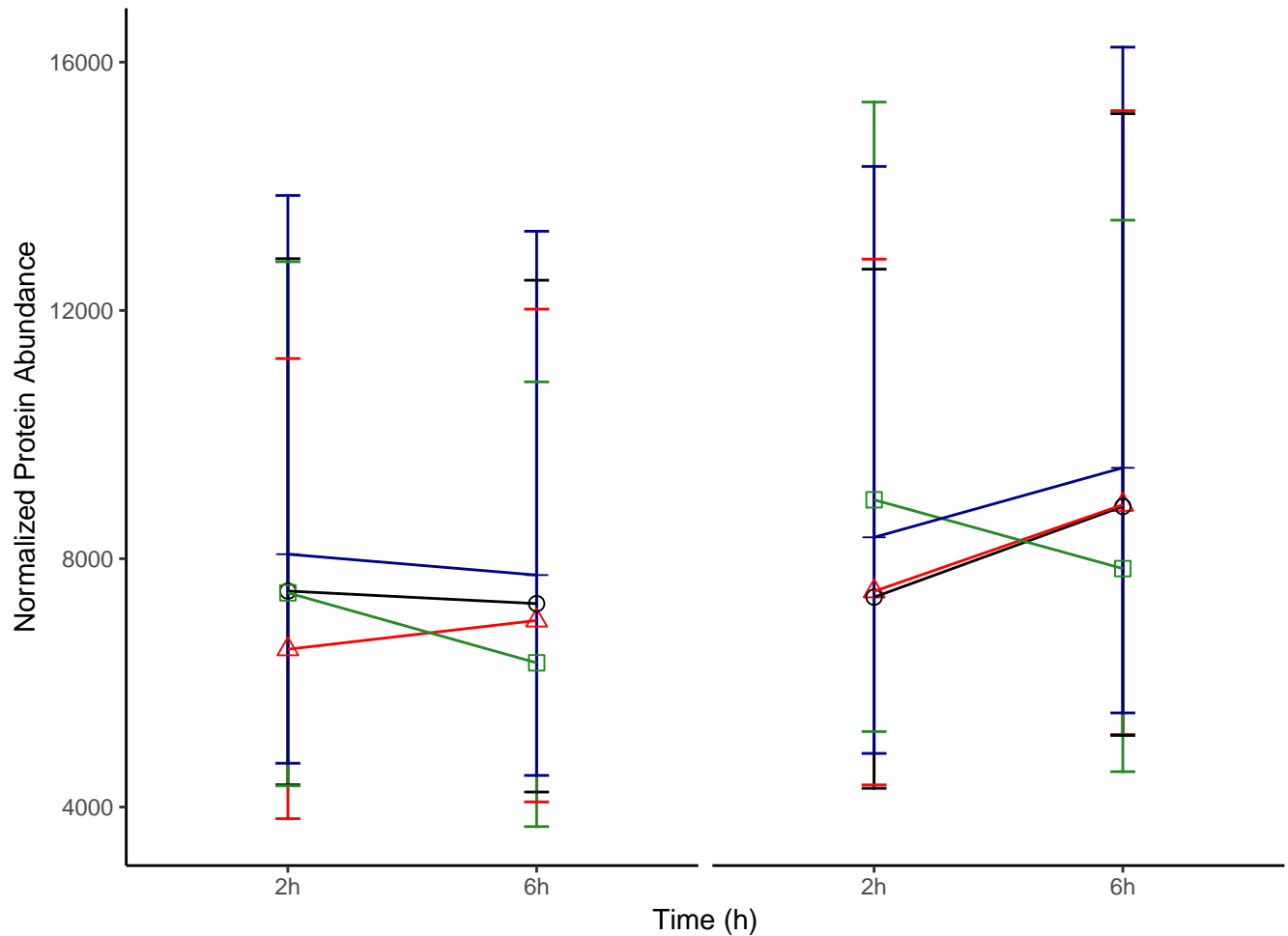


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HPRK\_STAAM

TSB

TSB-dex S-158

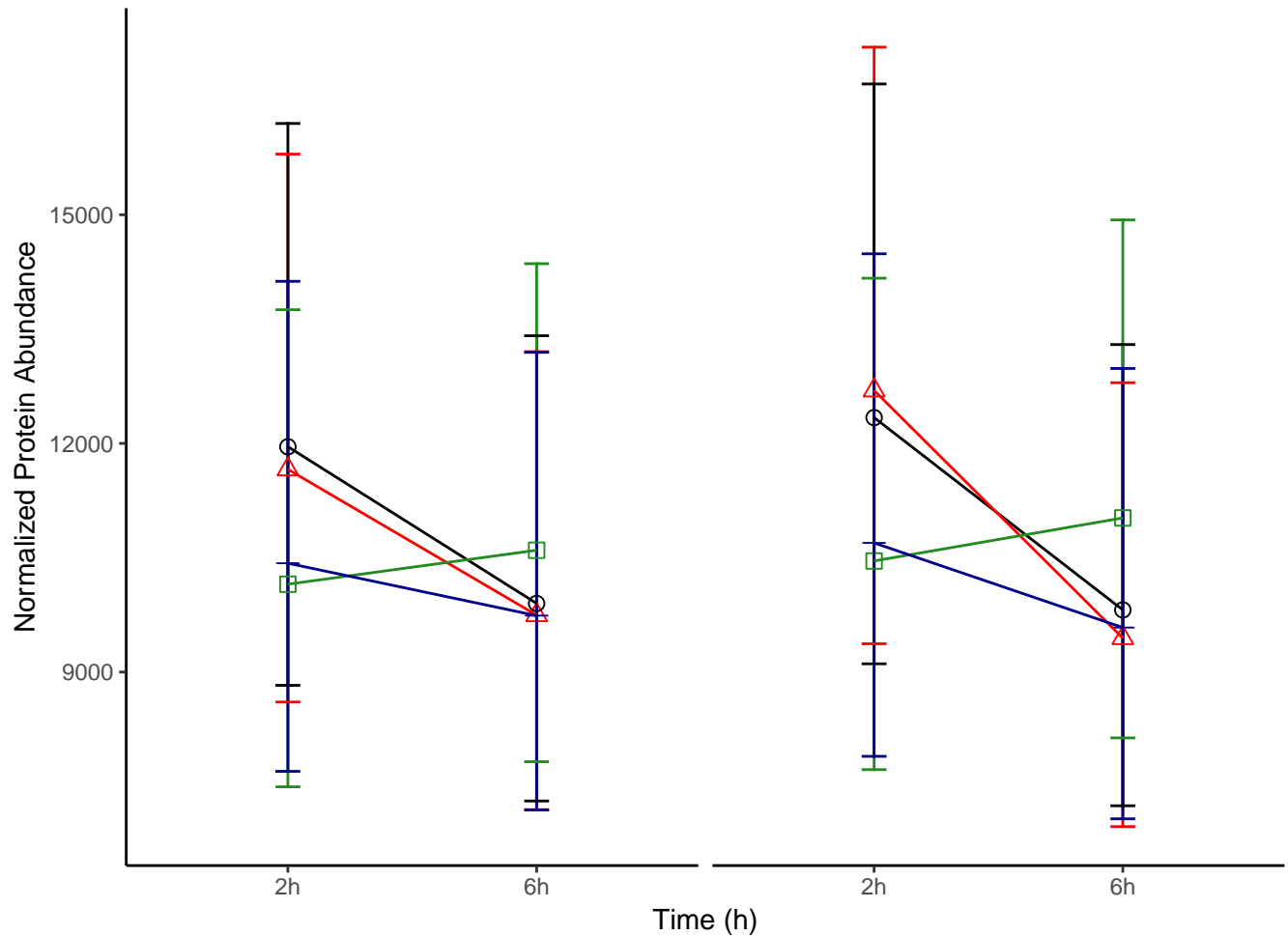


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HPRT\_STAAM

TSB

TSB-dex S-159

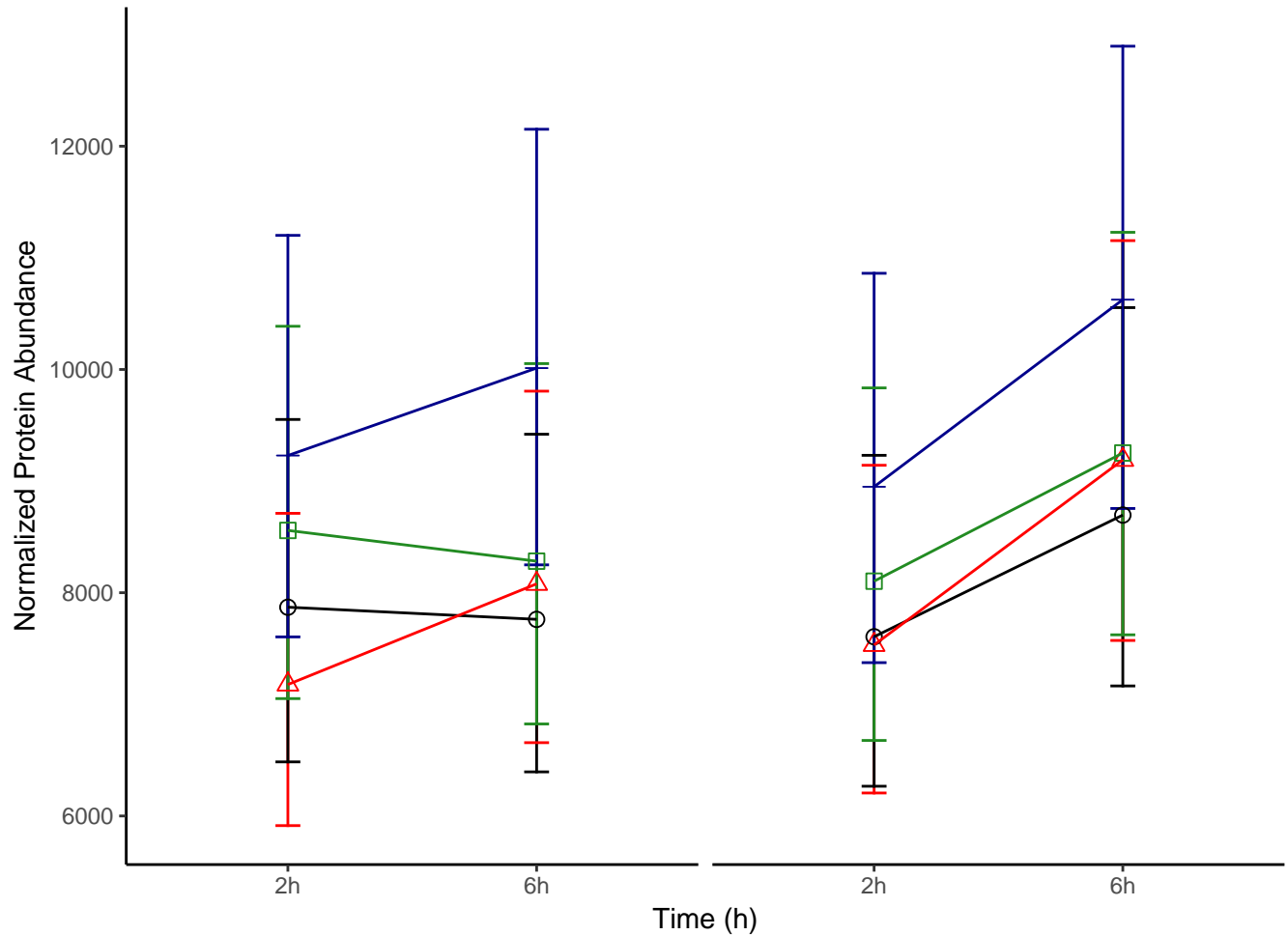


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HPS\_STAAM

TSB

TSB-dex S-160



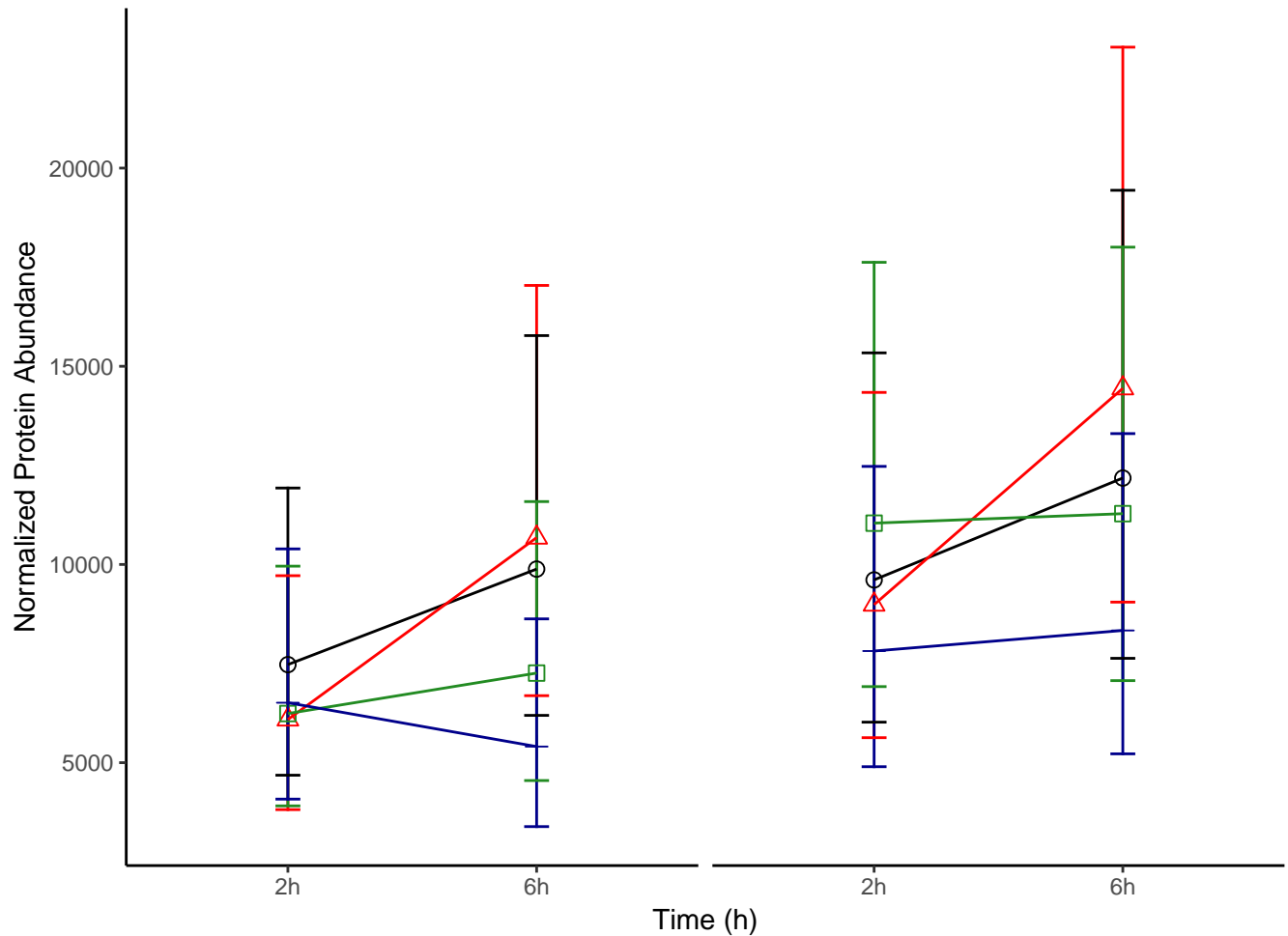
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# HRTA\_STAAM

TSB

TSB-dex S-161

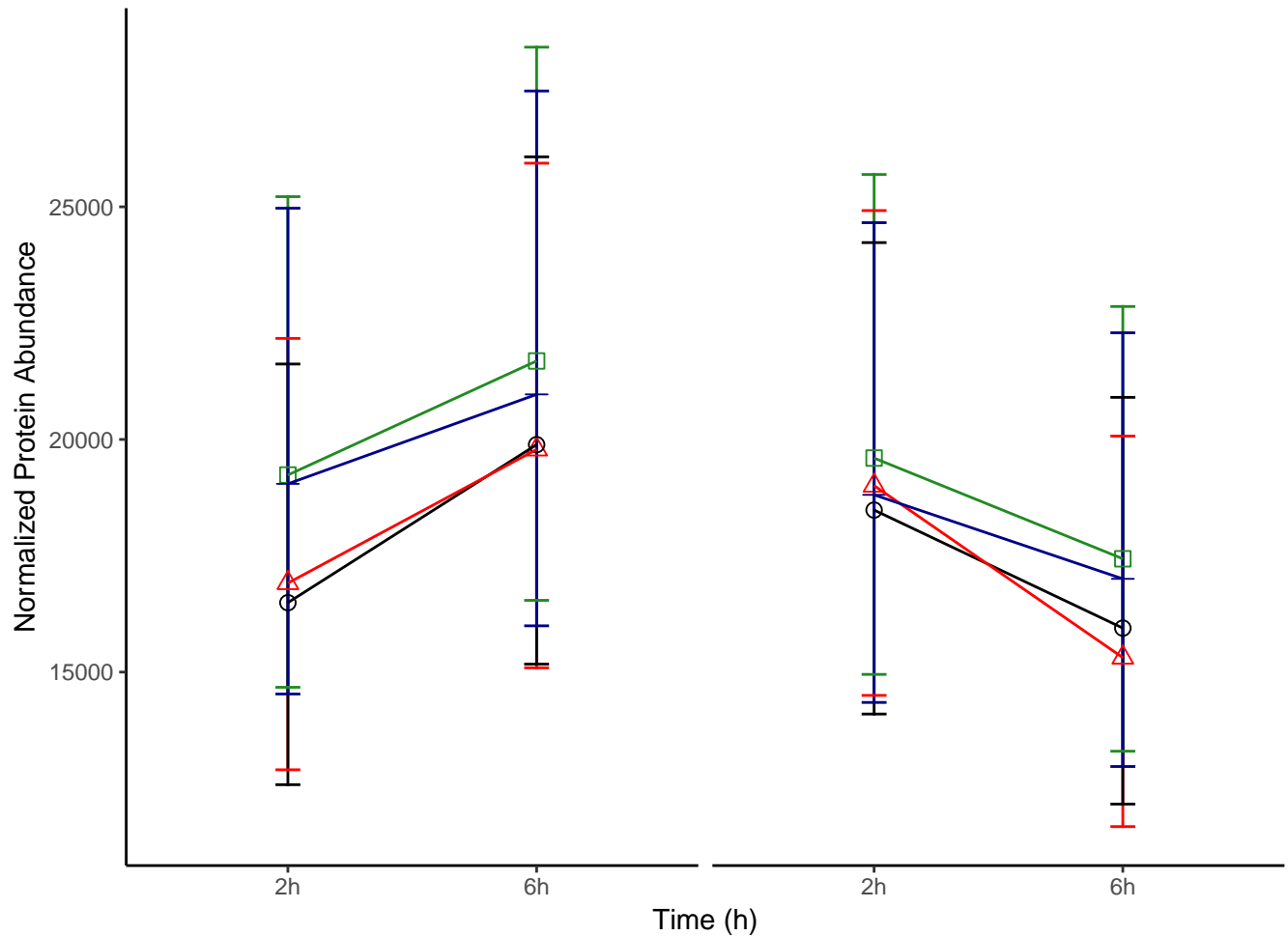


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HSLO\_STAAM

TSB

TSB-dex S-162

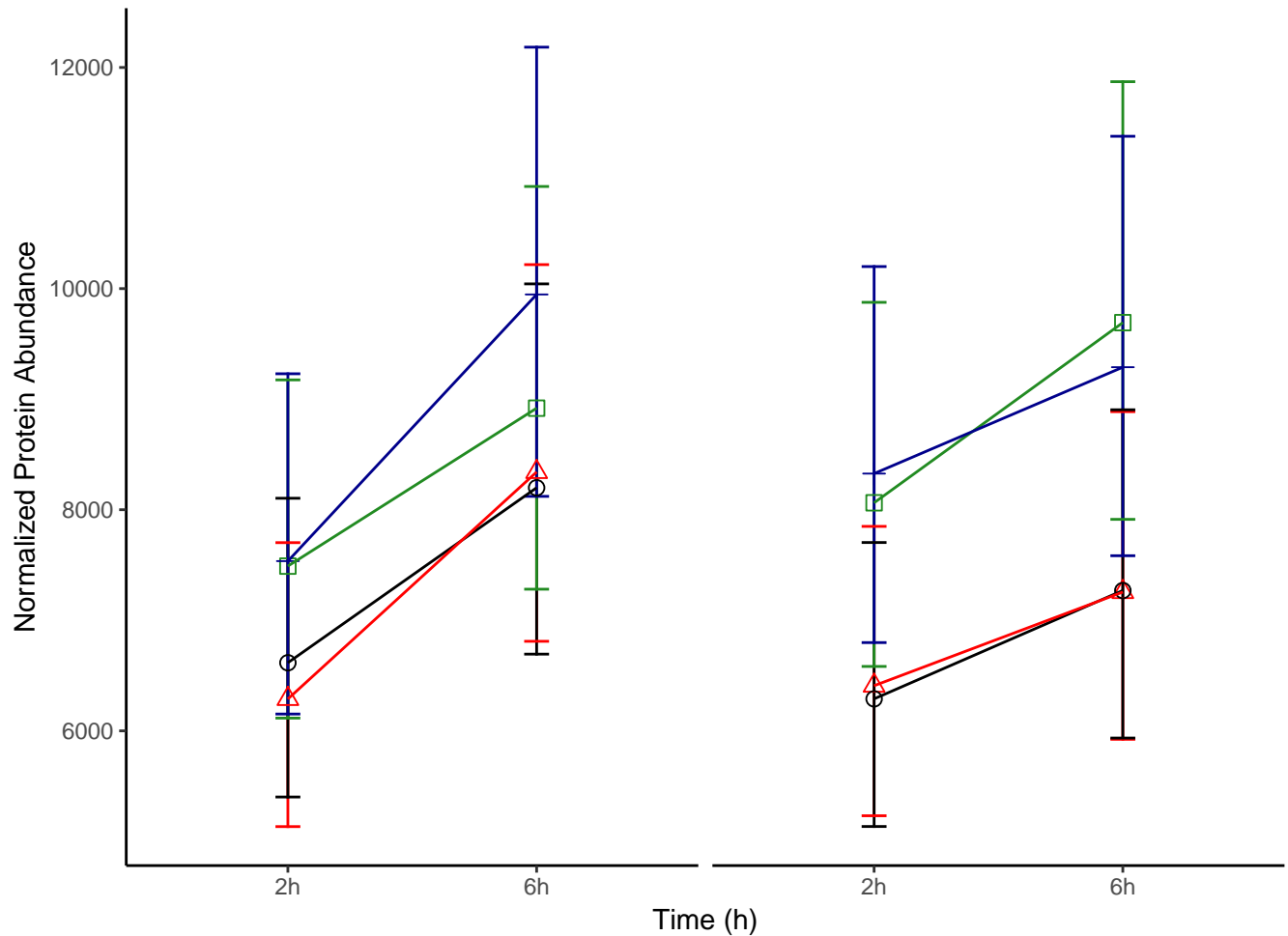


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HSLU\_STAAM

TSB

TSB-dex S-163

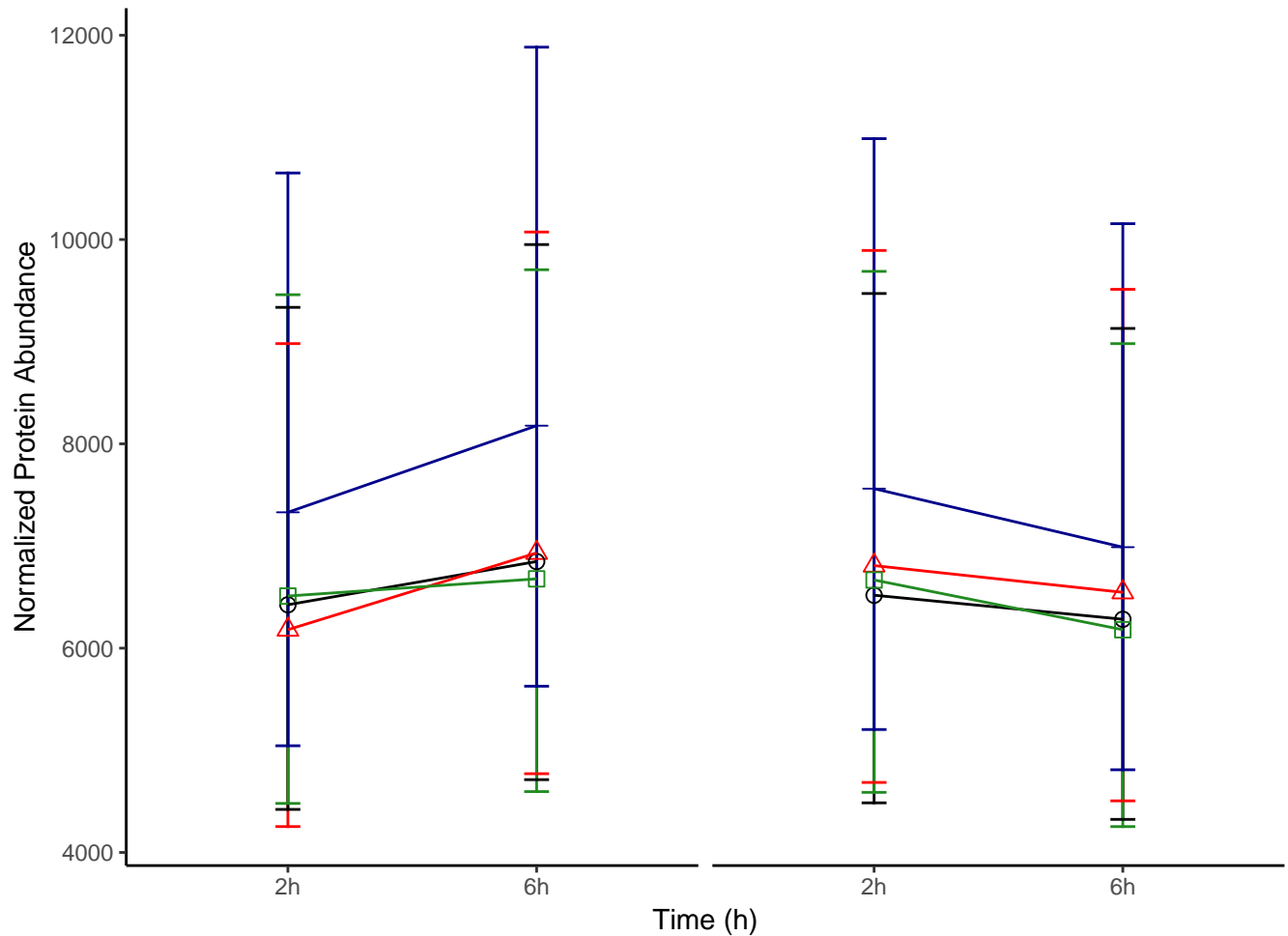


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HSLV\_STAAM

TSB

TSB-dex S-164

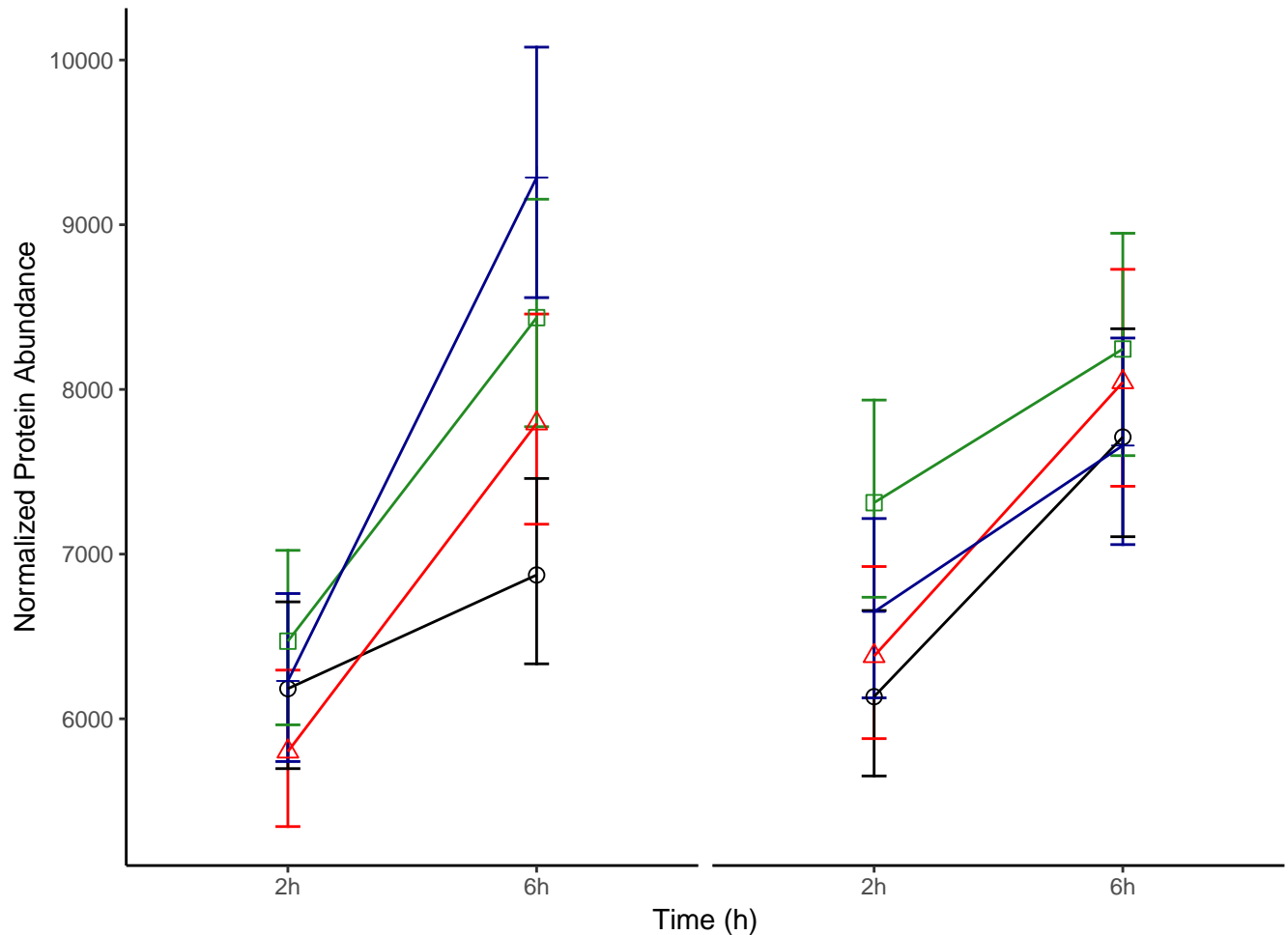


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HUTH\_STAAM

TSB

TSB-dex S-165

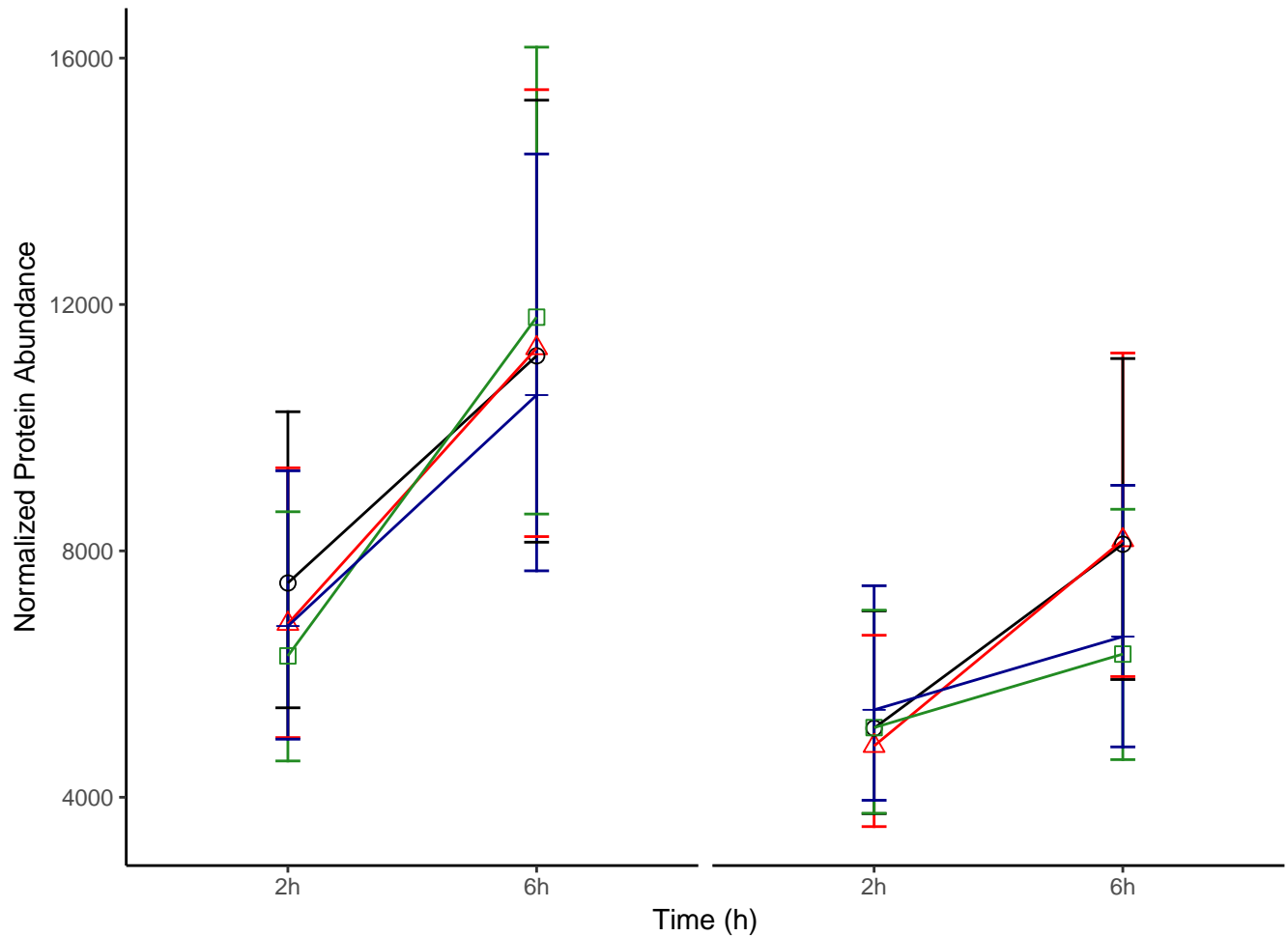


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HUTI\_STAAM

TSB

TSB-dex S-166

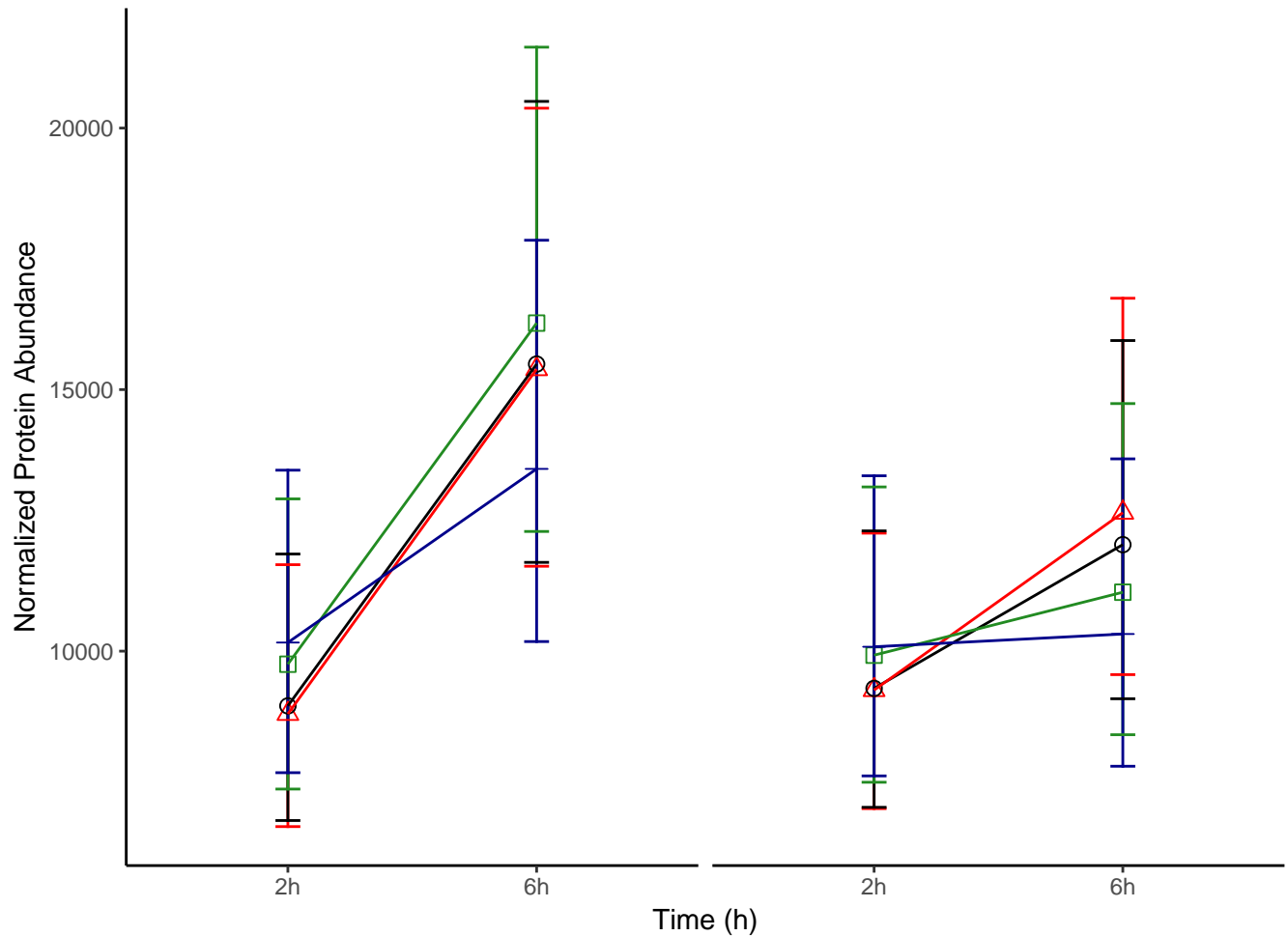


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HUTU\_STAAM

TSB

TSB-dex S-167

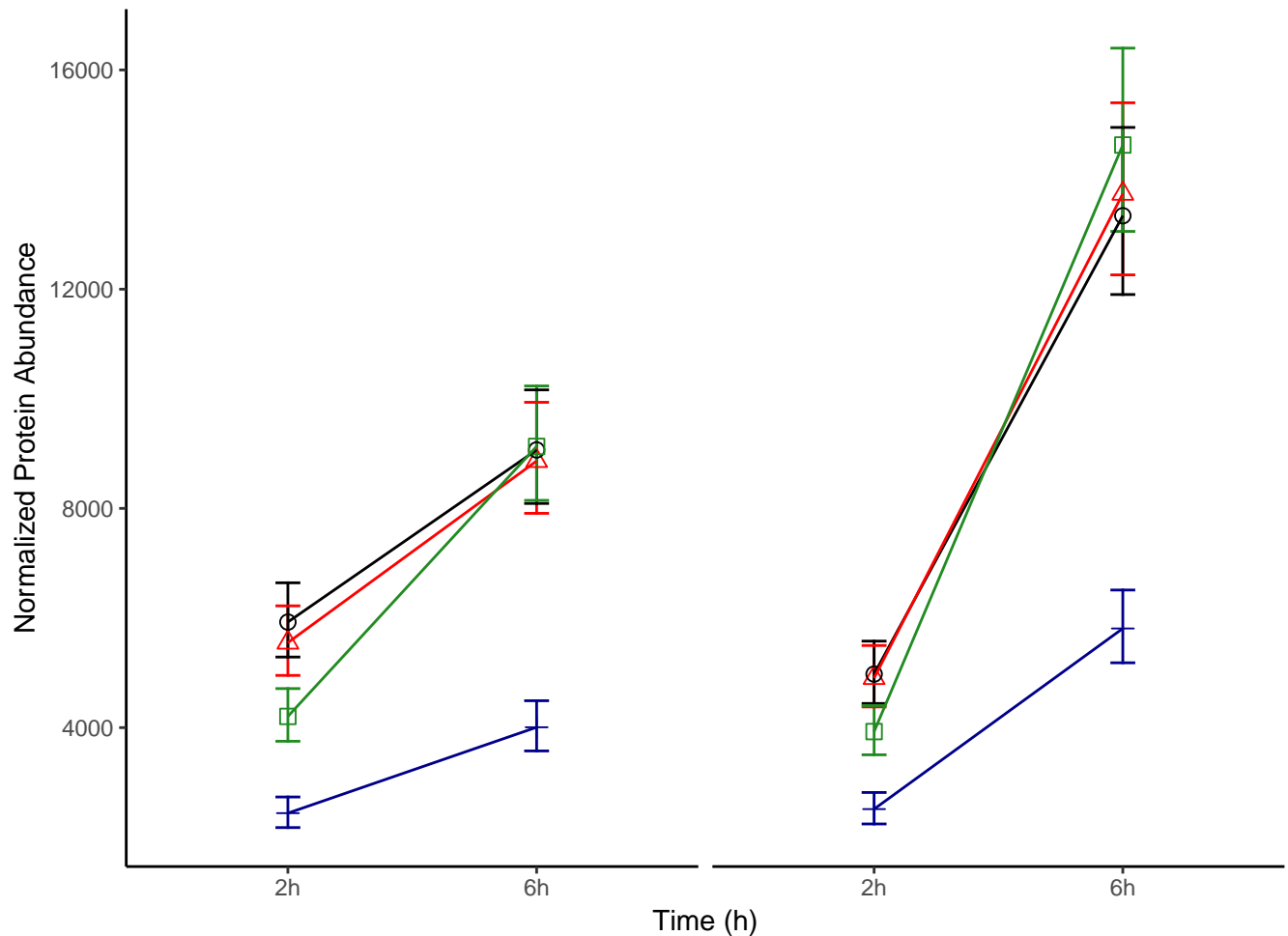


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ICAB\_STAAM

TSB

TSB-dex S-168



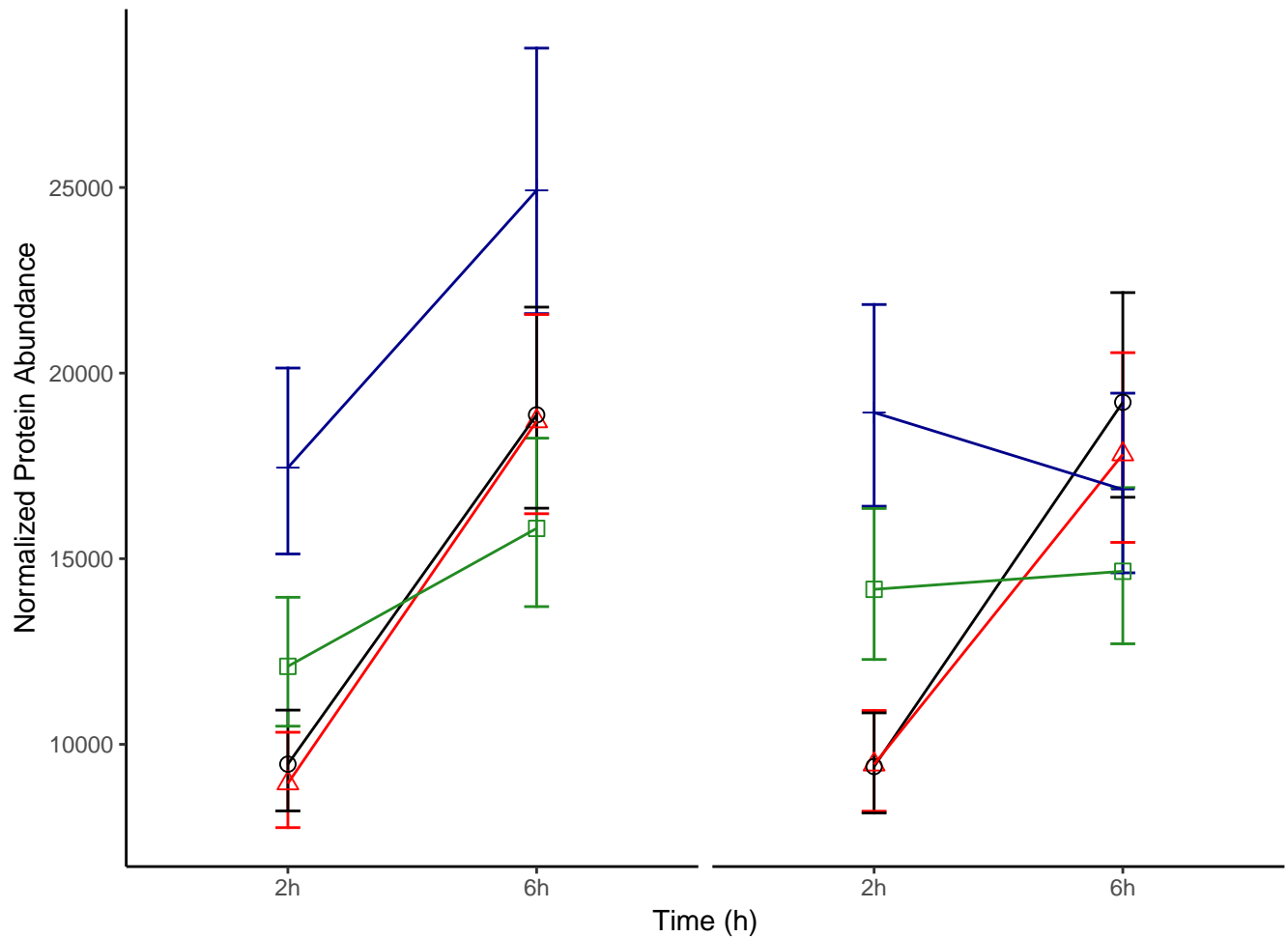
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# IDH\_STAAM

TSB

TSB-dex S-169

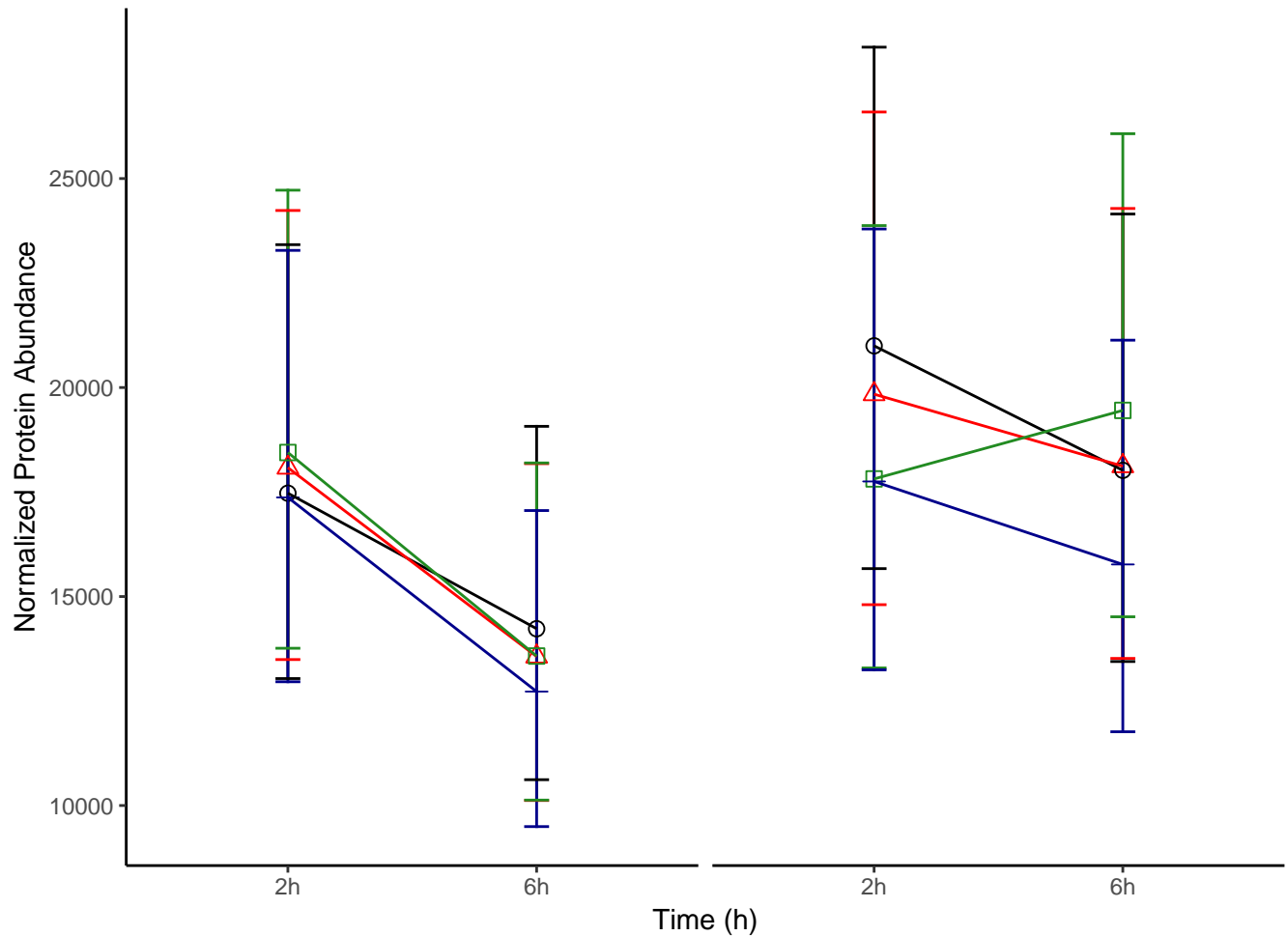


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IF1\_STAAM

TSB

TSB-dex S-170

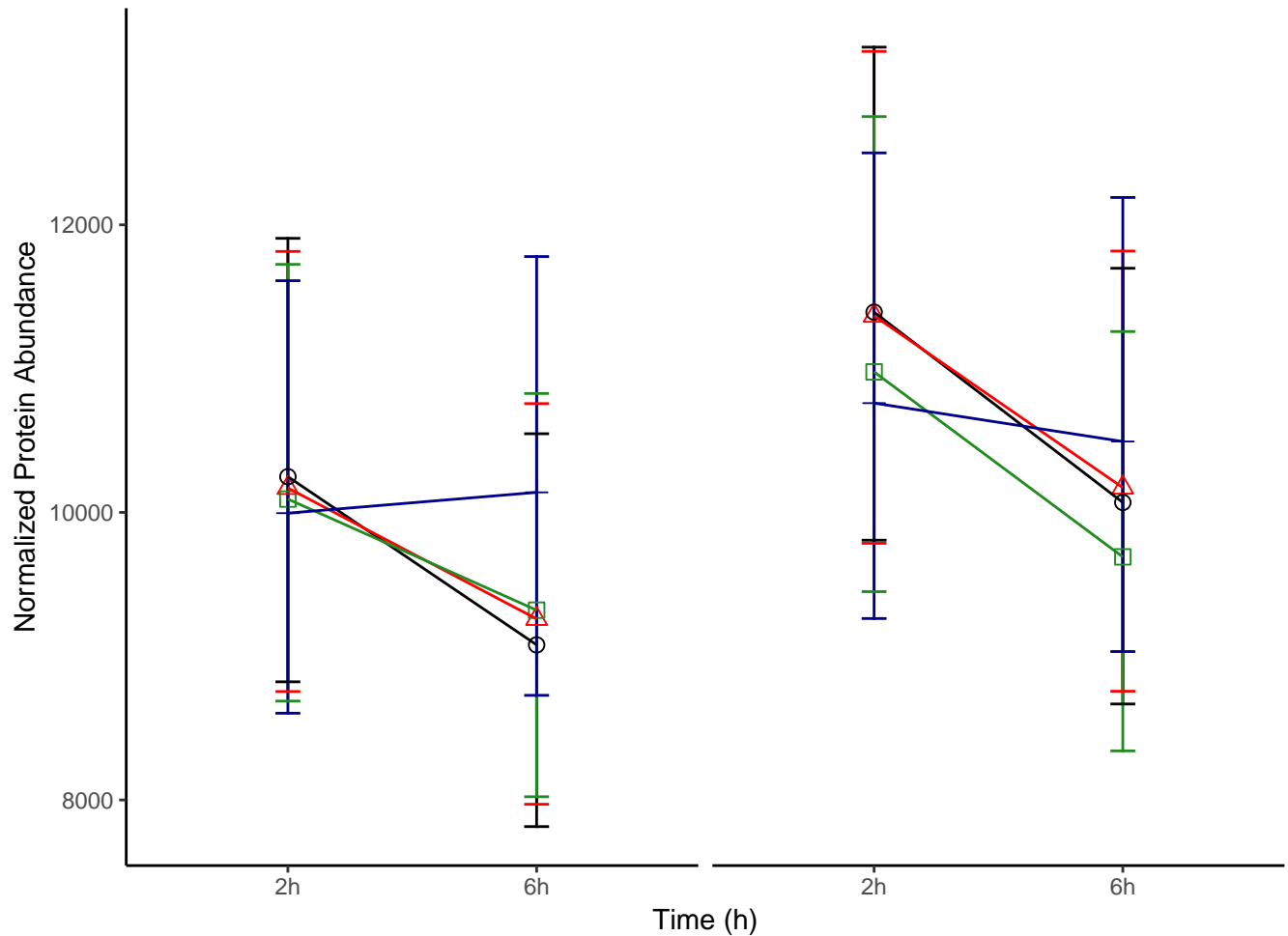


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# IF2\_STAAM

TSB

TSB-dex S-171

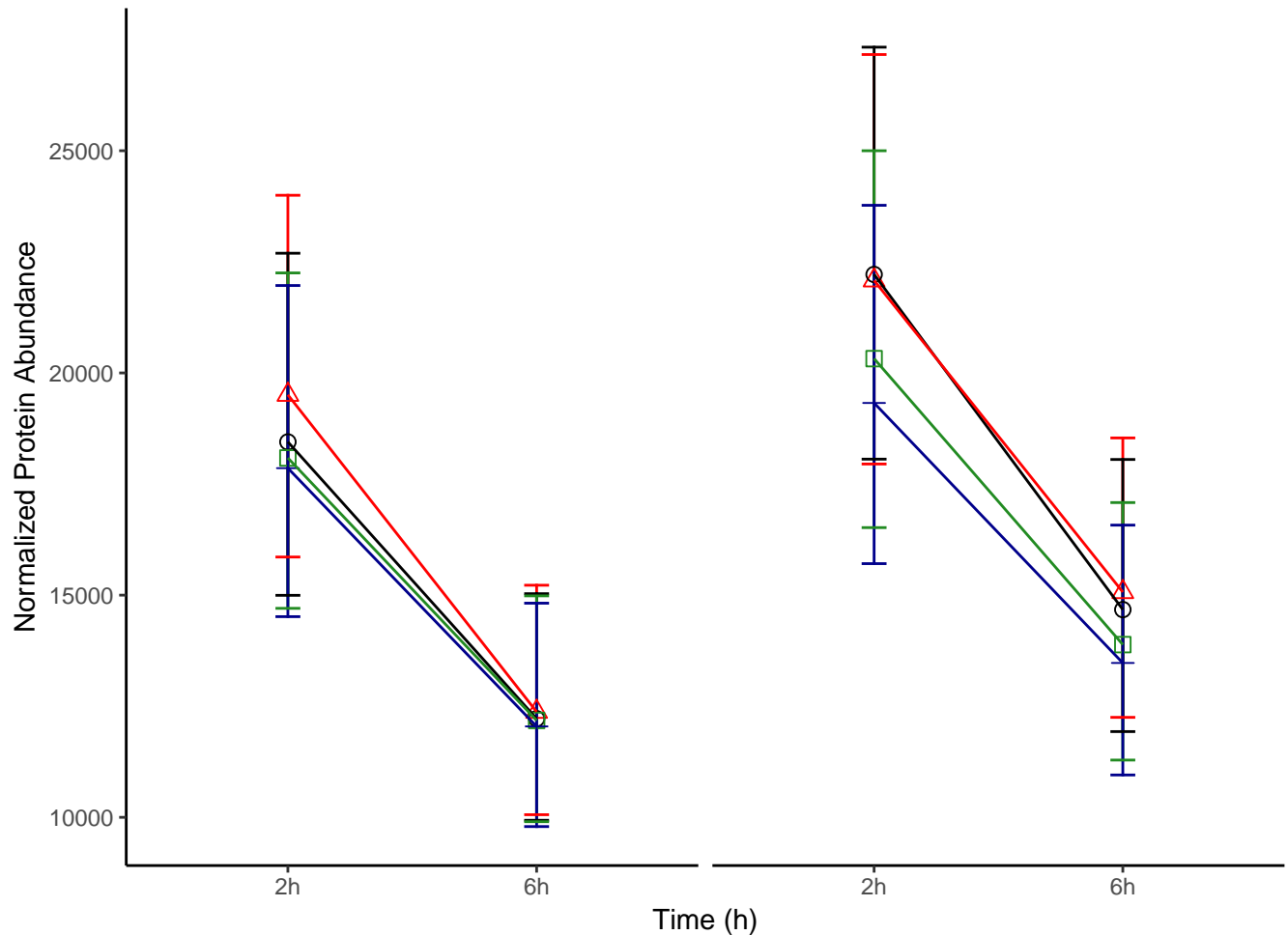


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# IF3\_STAAM

TSB

TSB-dex S-172

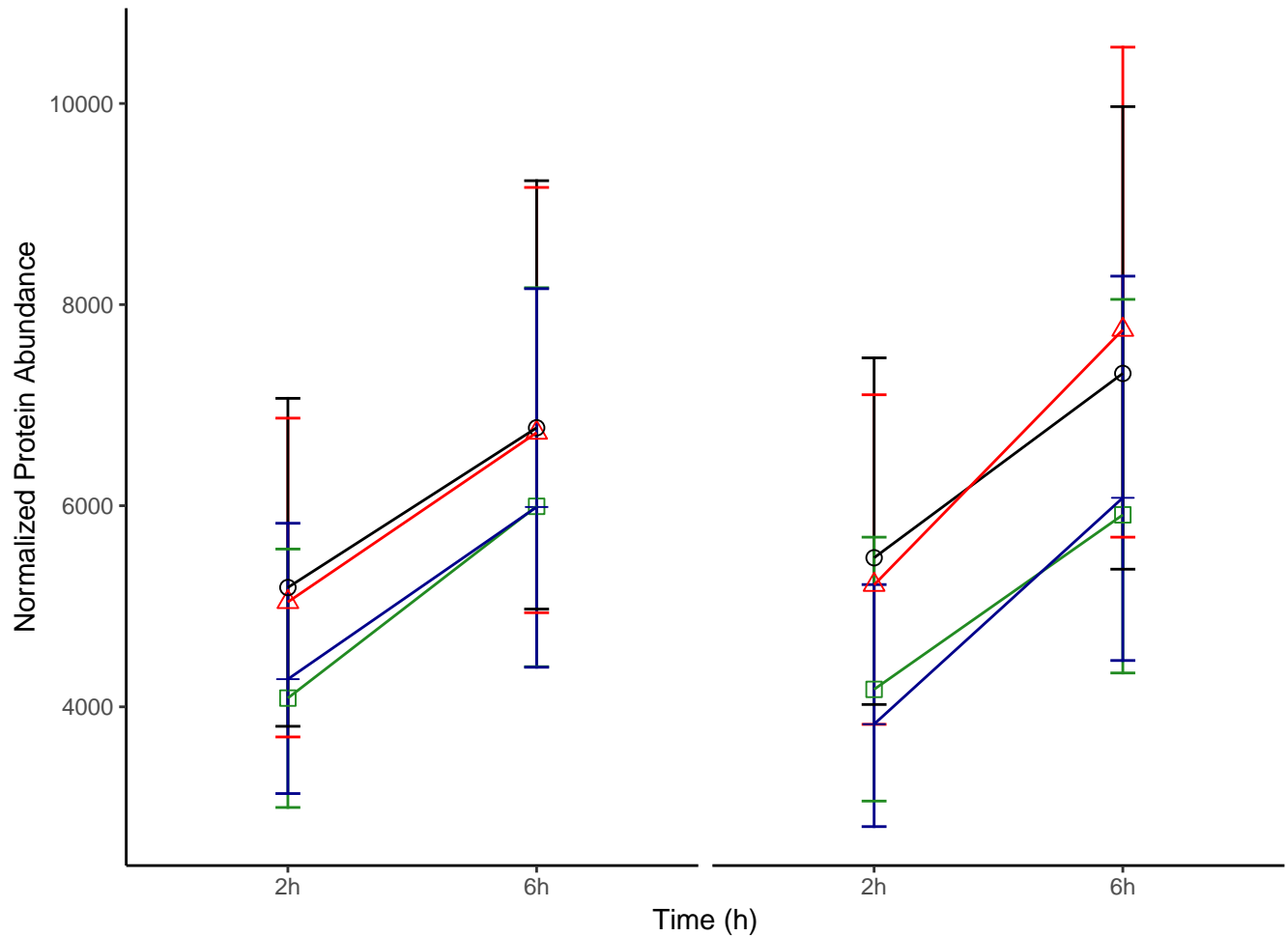


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ILVC\_STAAM

TSB

TSB-dex S-173

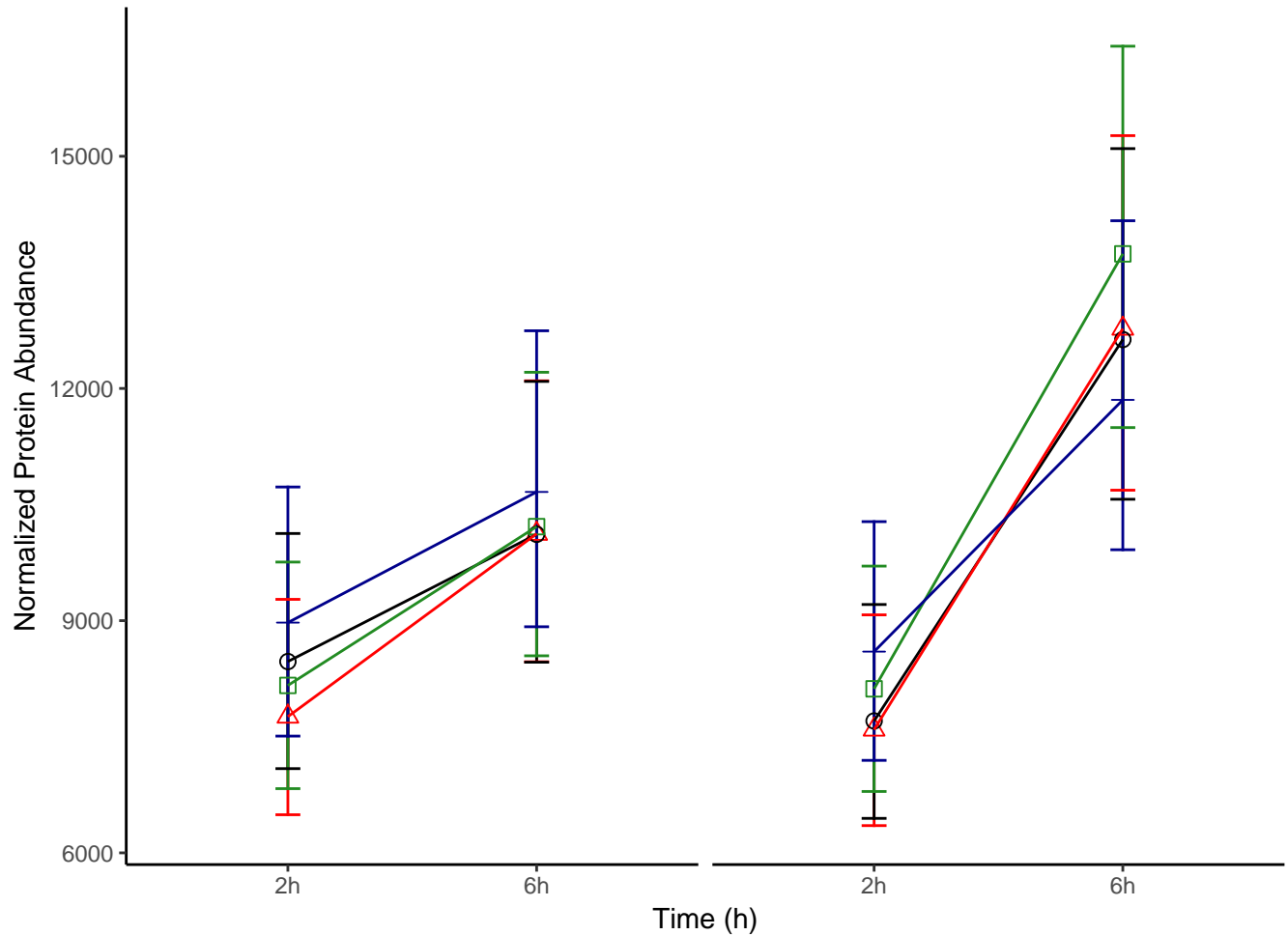


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ILVE\_STAAM

TSB

TSB-dex S-174



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# IMDH\_STAAM

TSB

TSB-dex S-175

Normalized Protein Abundance

20000

15000

2h

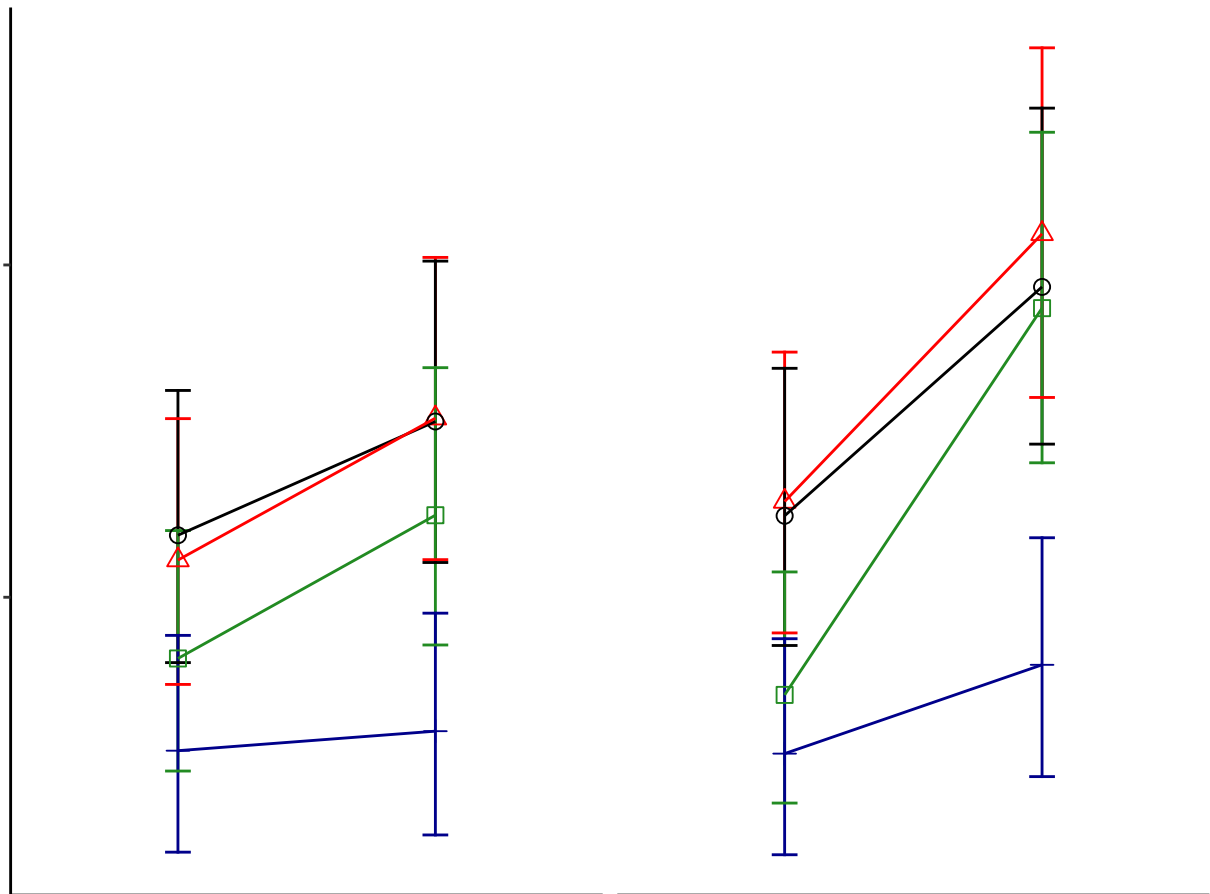
6h

Time (h)

2h

6h

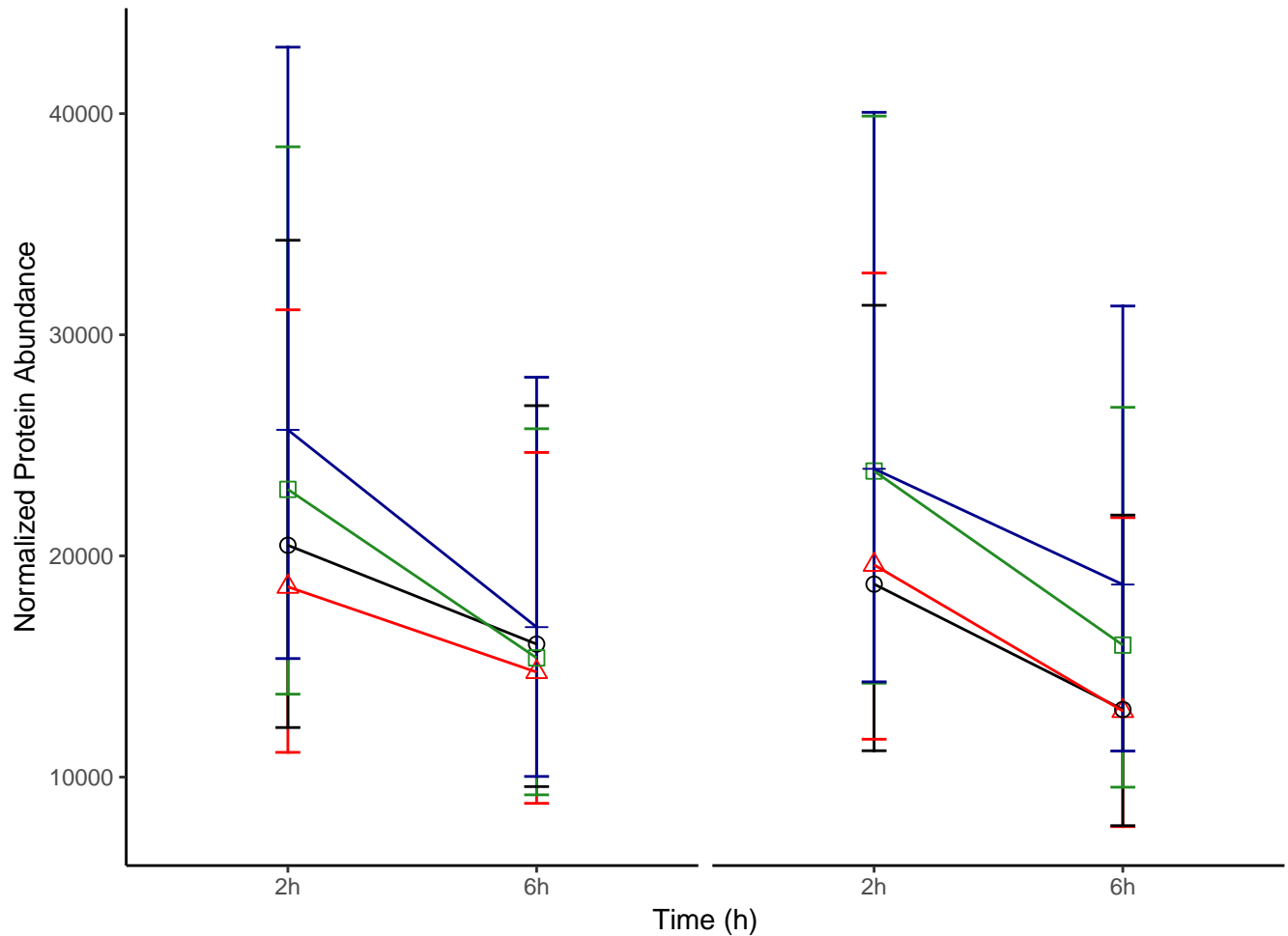
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ISAA\_STAAM

TSB

TSB-dex S-176



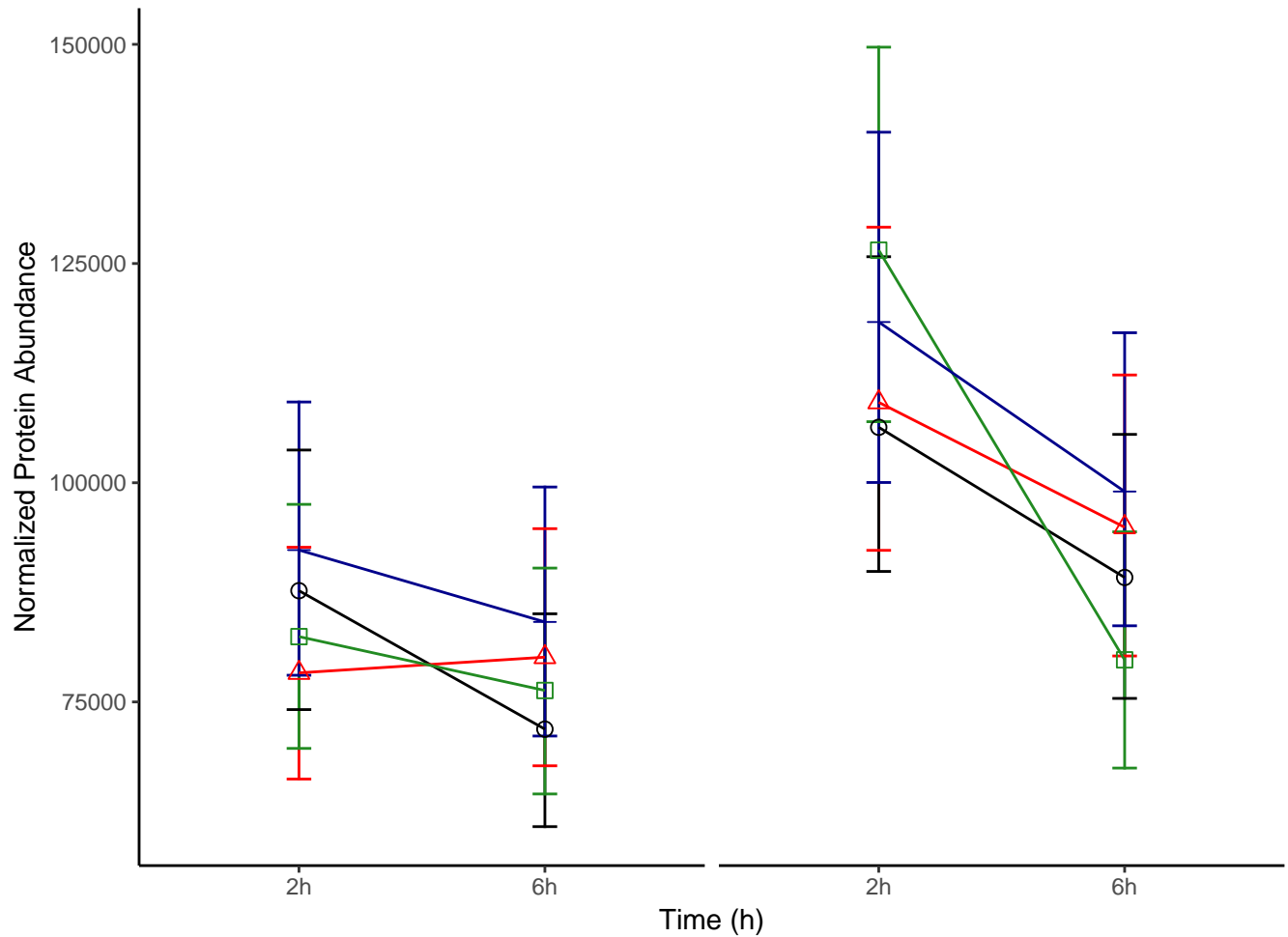
- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



## ISPD1\_STAAM

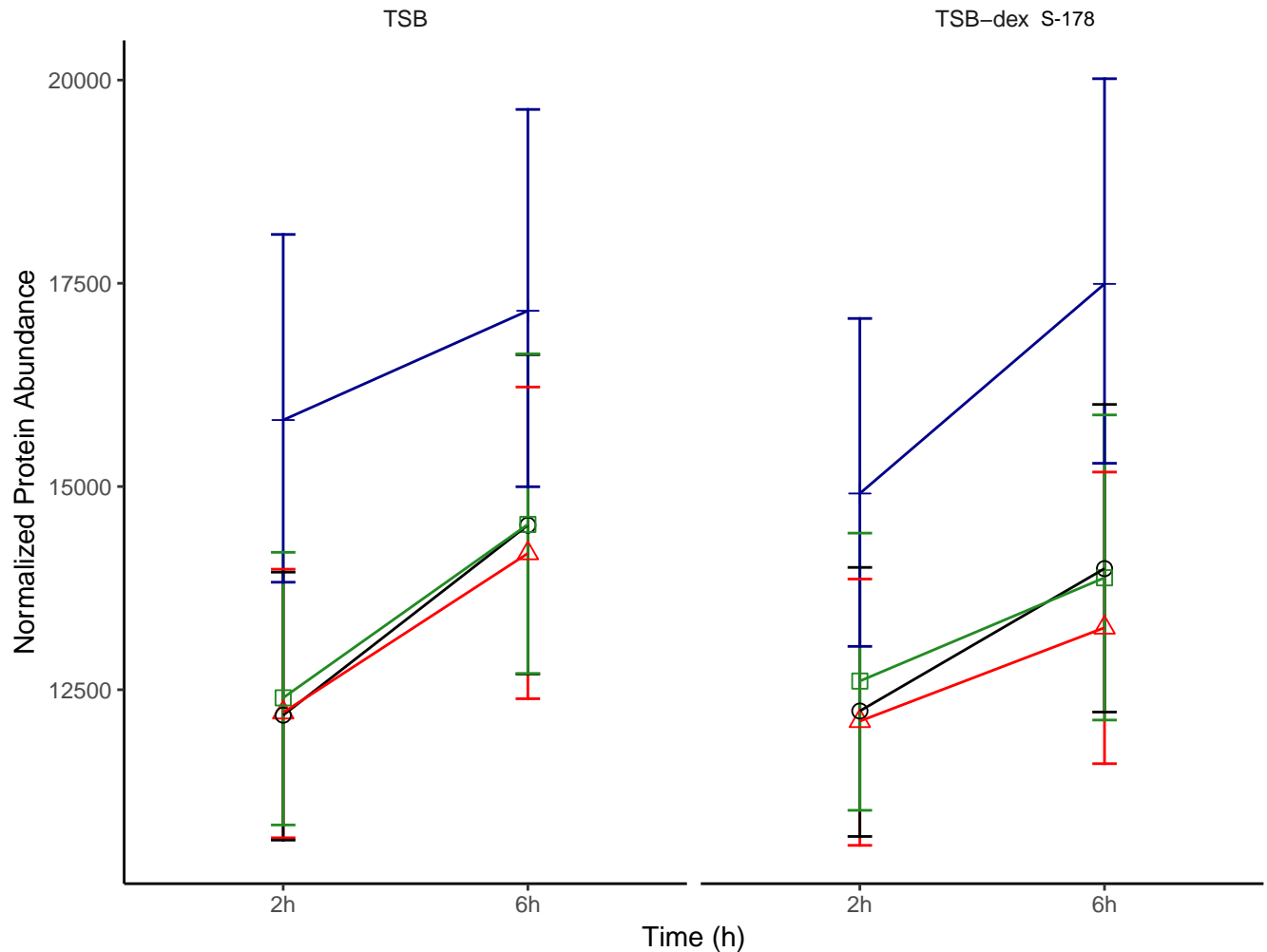
TSB

TSB-dex S-177



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ISPD2\_STAAM

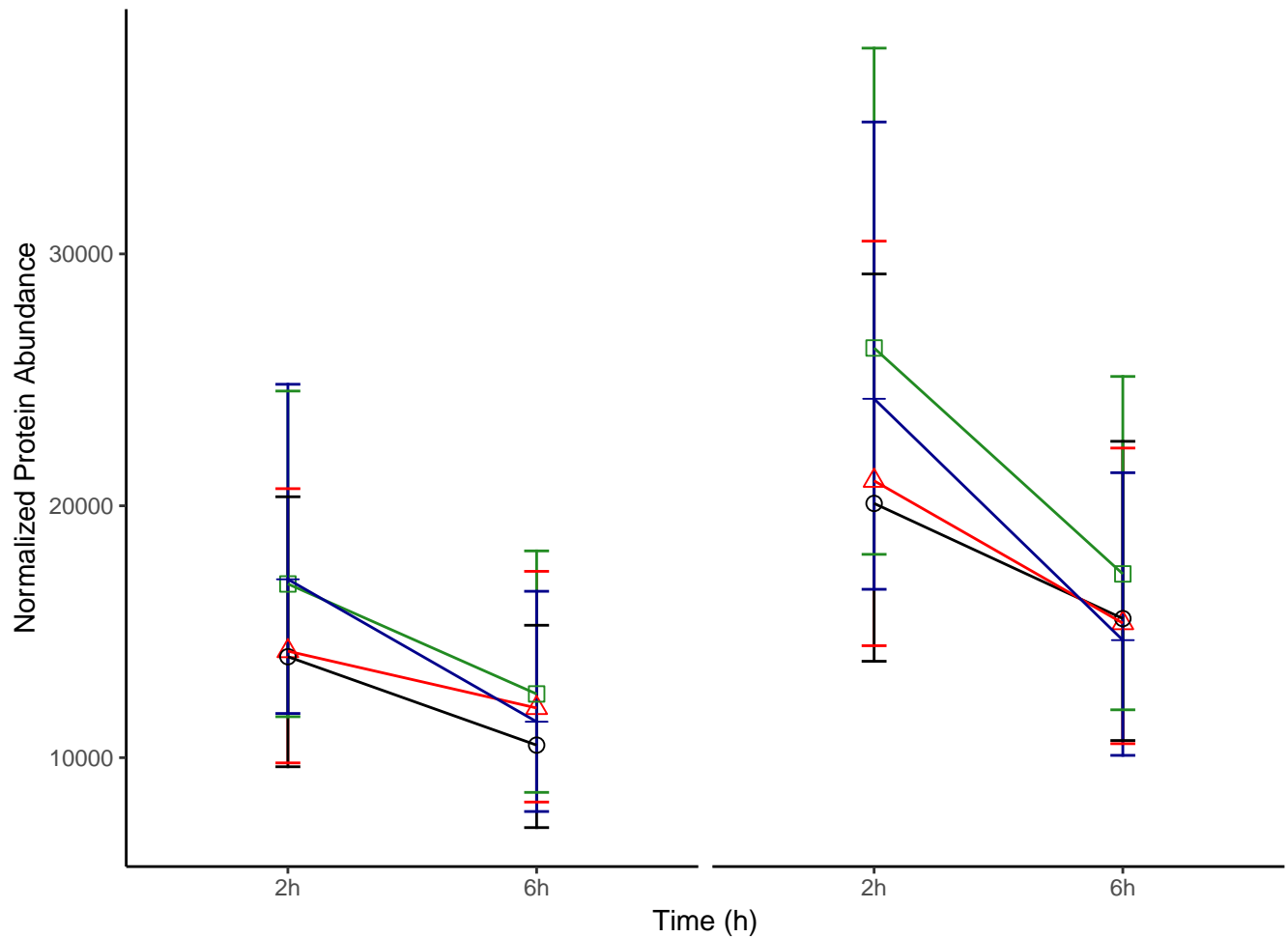


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# ISPE\_STAAM

TSB

TSB-dex S-179

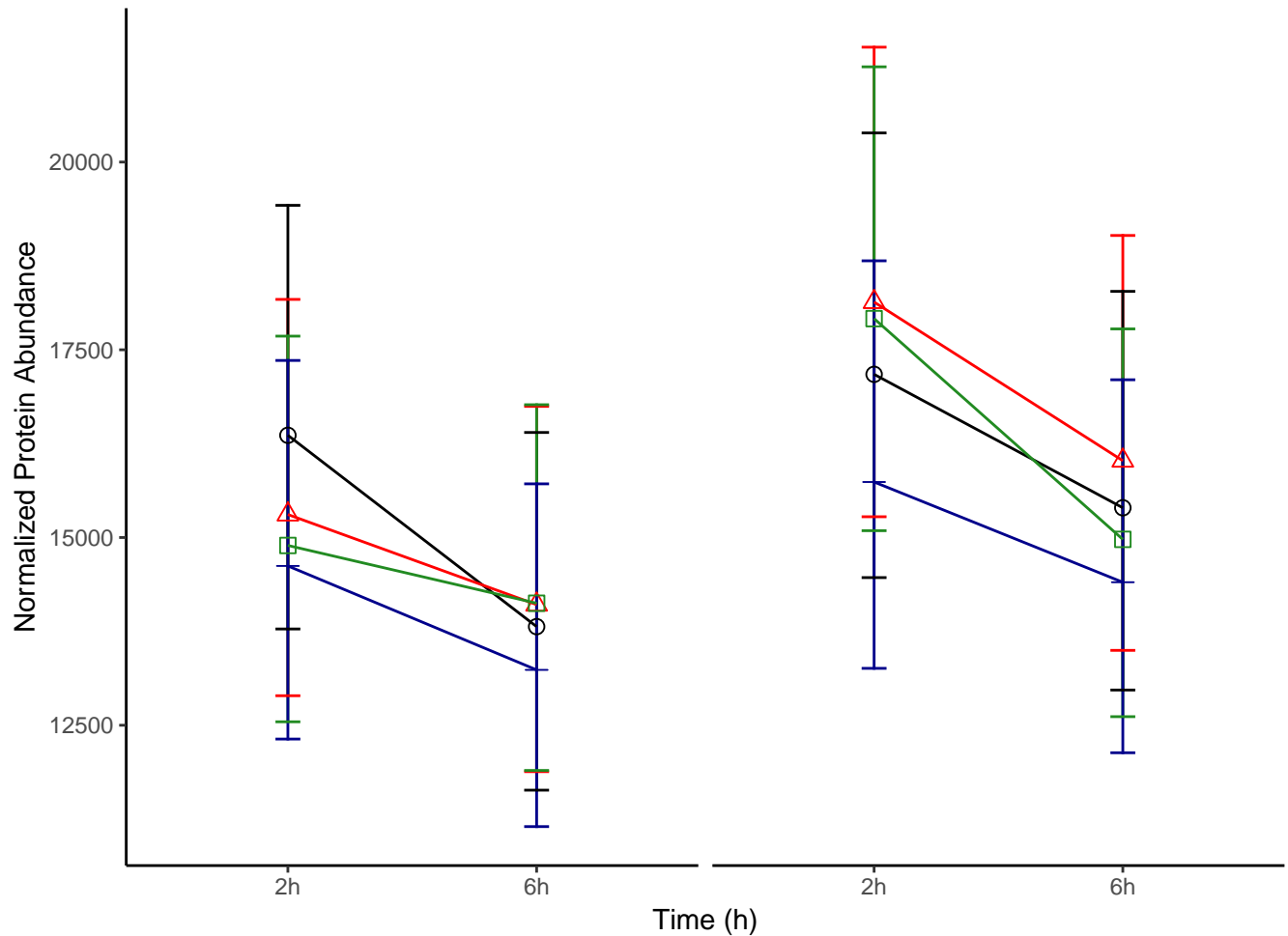


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KAD\_STAAM

TSB

TSB-dex S-180

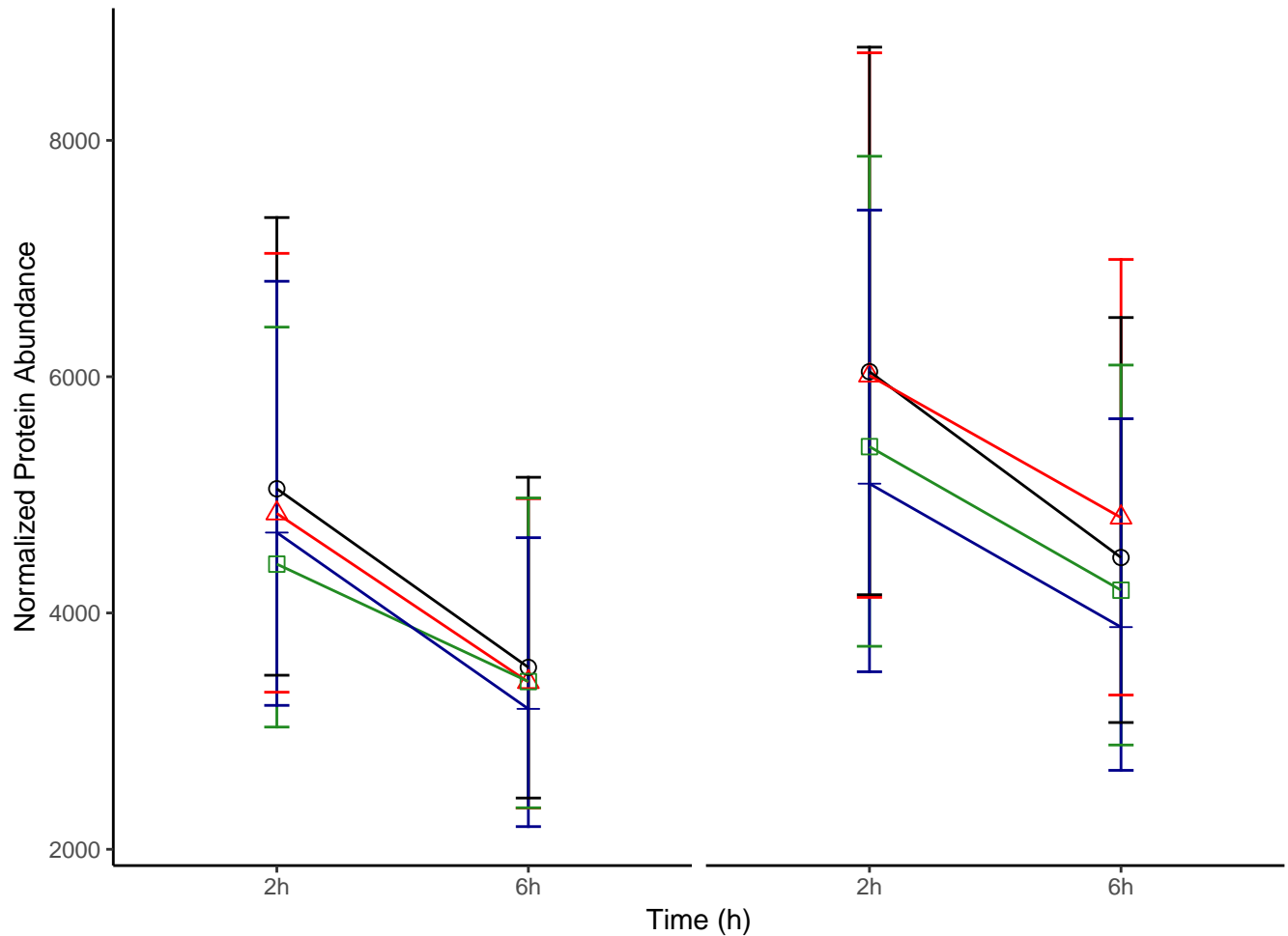


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KCY\_STAAM

TSB

TSB-dex S-181

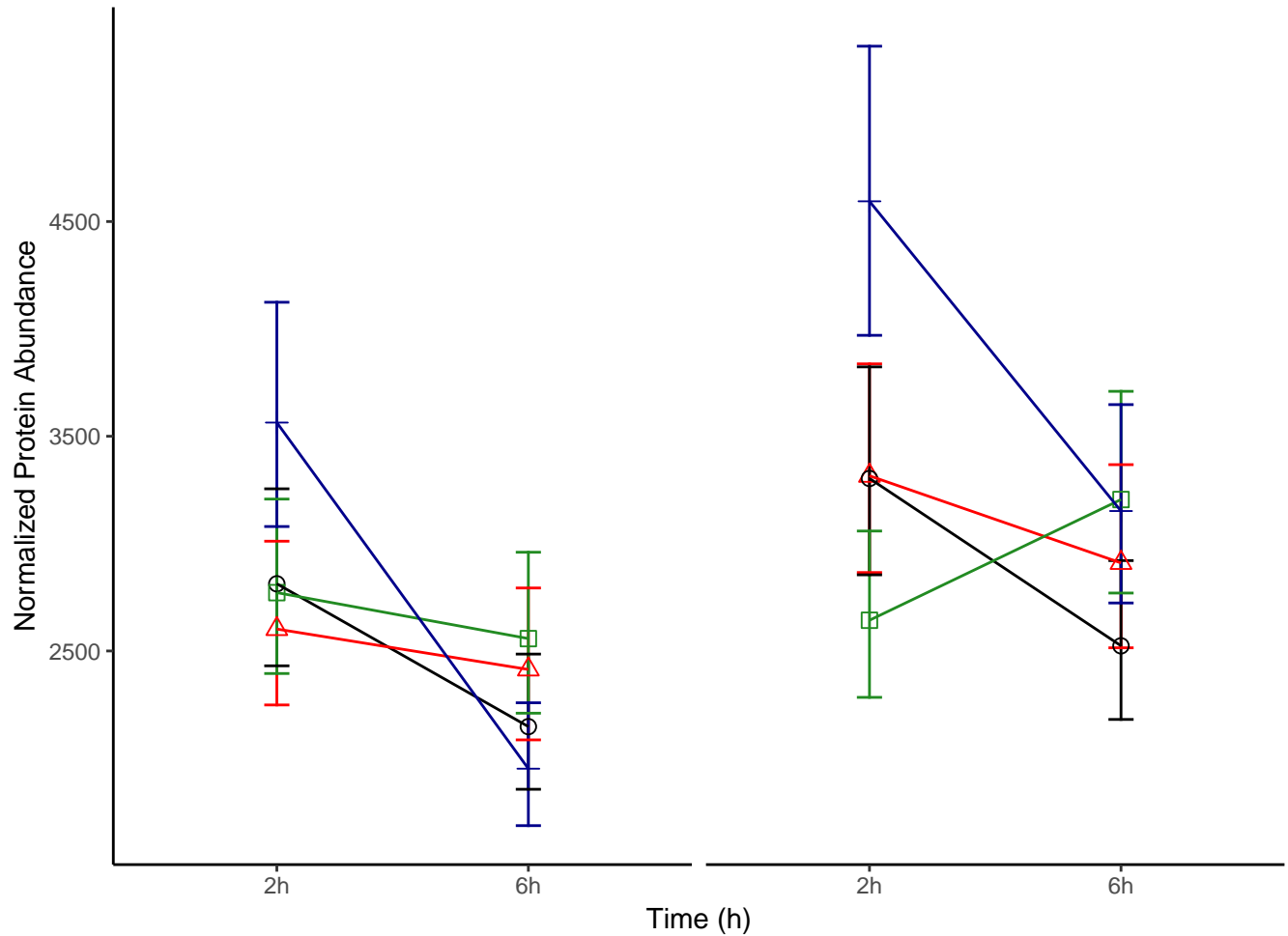


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KITH\_STAAM

TSB

TSB-dex S-182

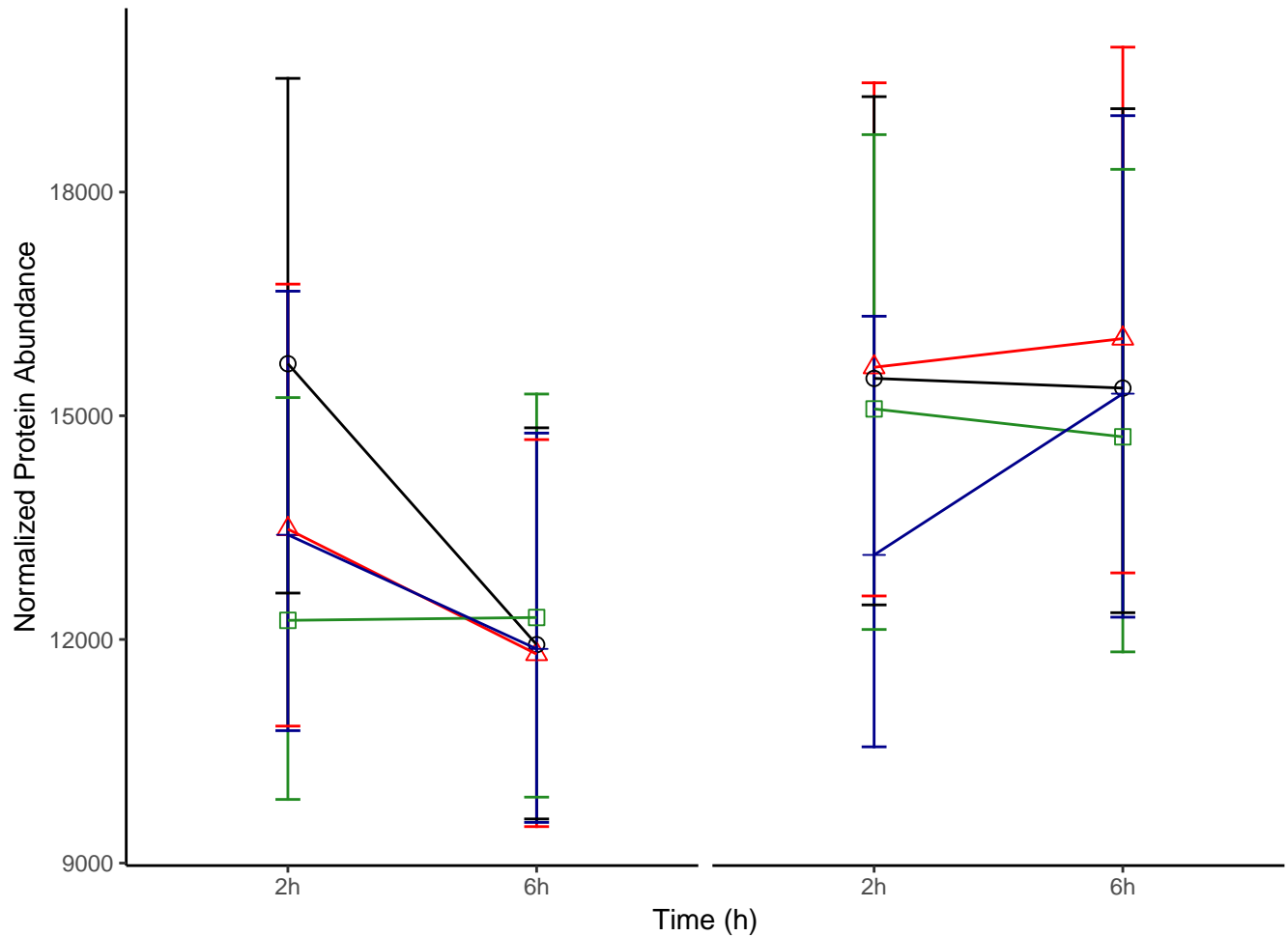


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KPRS\_STAAM

TSB

TSB-dex S-183

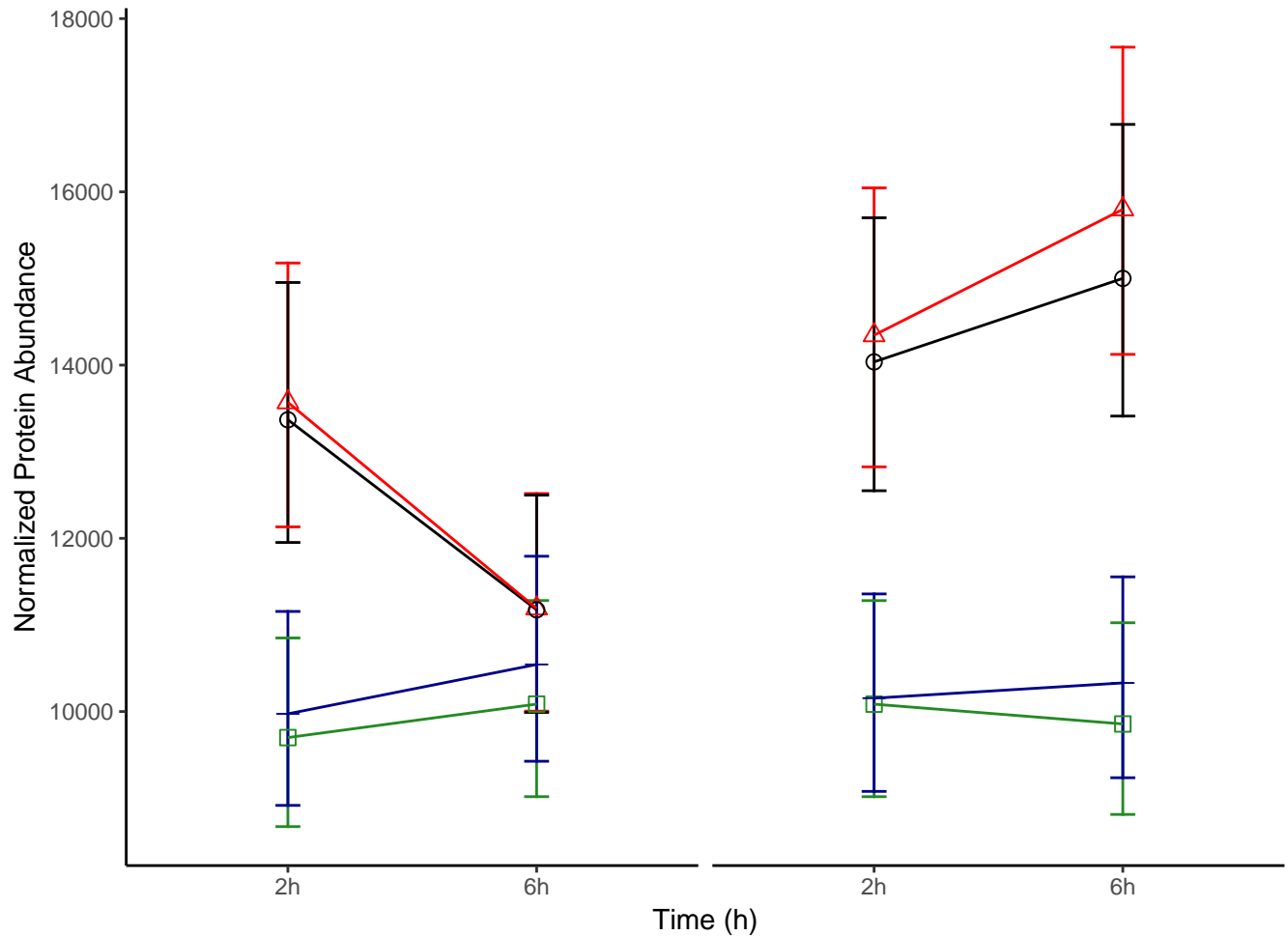


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KPYK\_STAAM

TSB

TSB-dex S-184



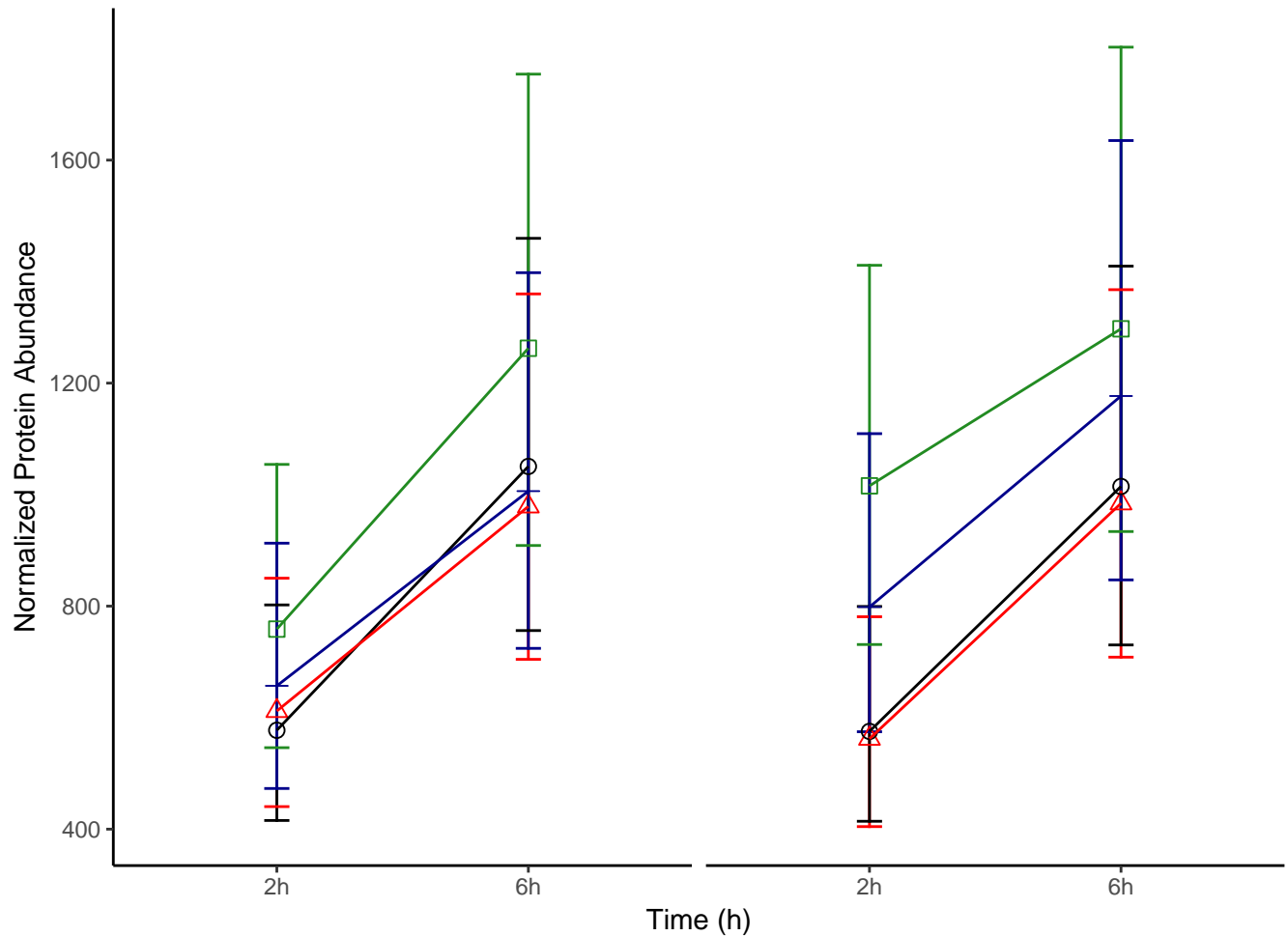
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# KTHY\_STAAM

TSB

TSB-dex S-185

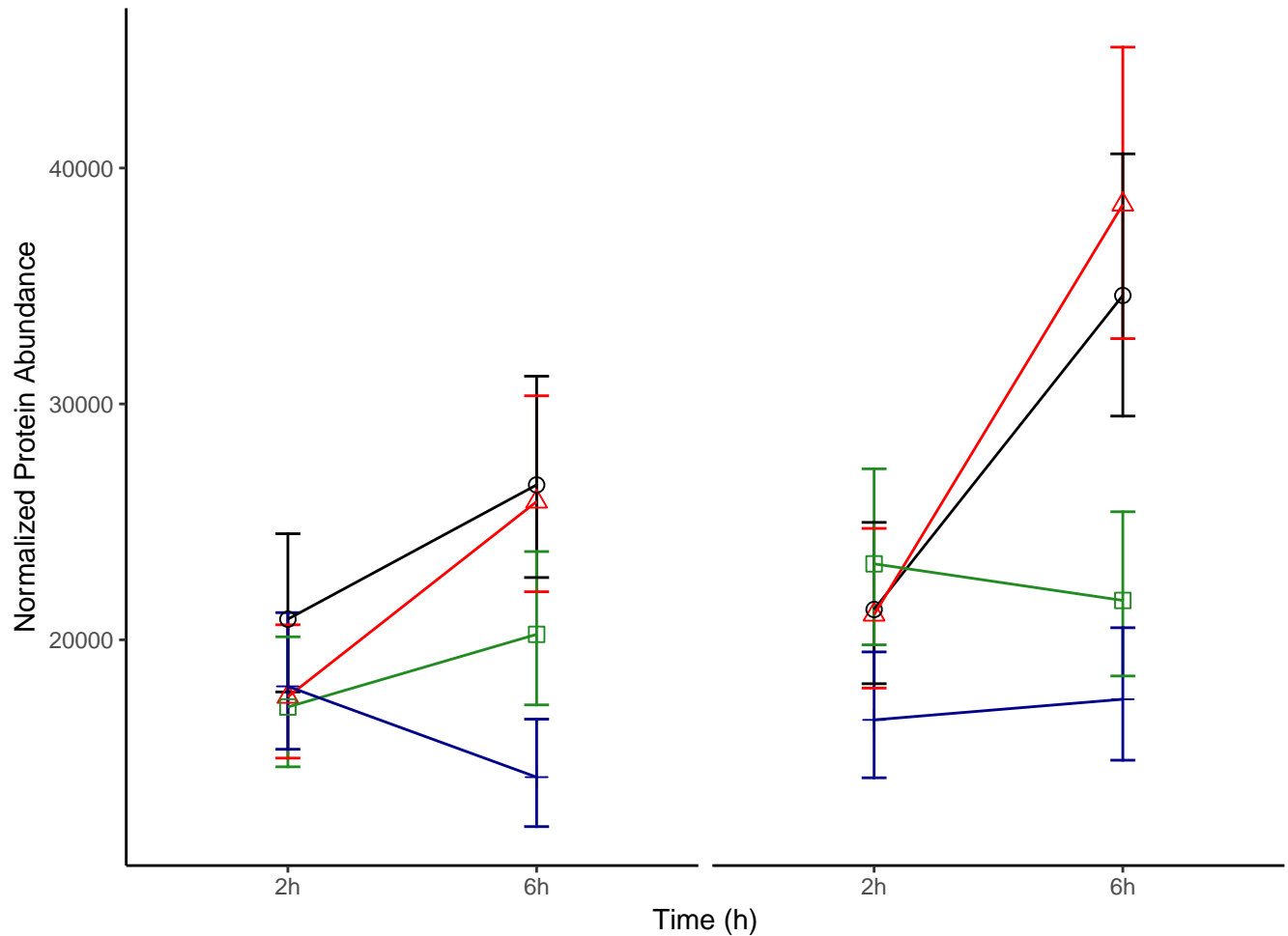


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LACA\_STAAM

TSB

TSB-dex S-186

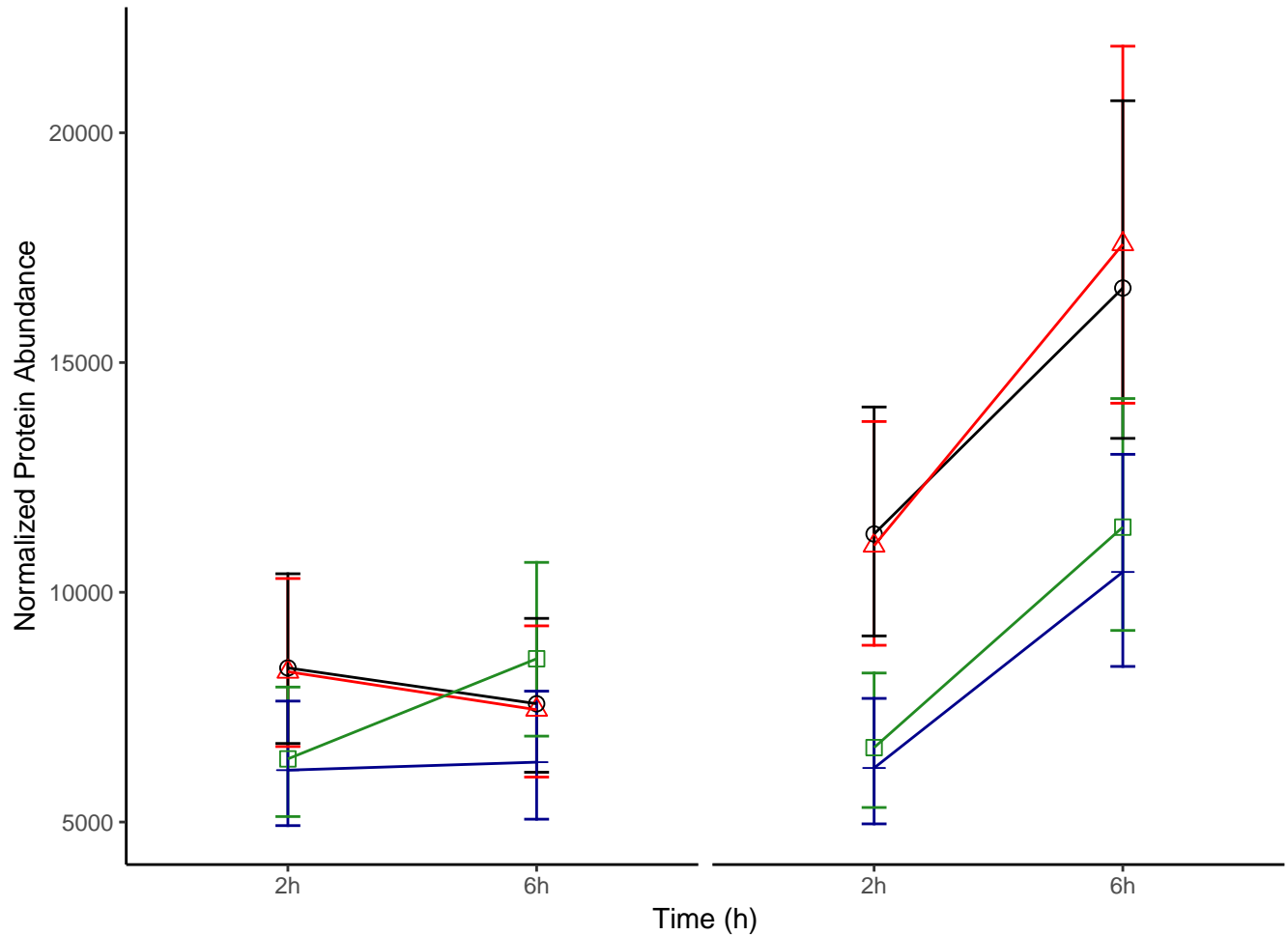


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# LDH1\_STAAM

TSB

TSB-dex S-187

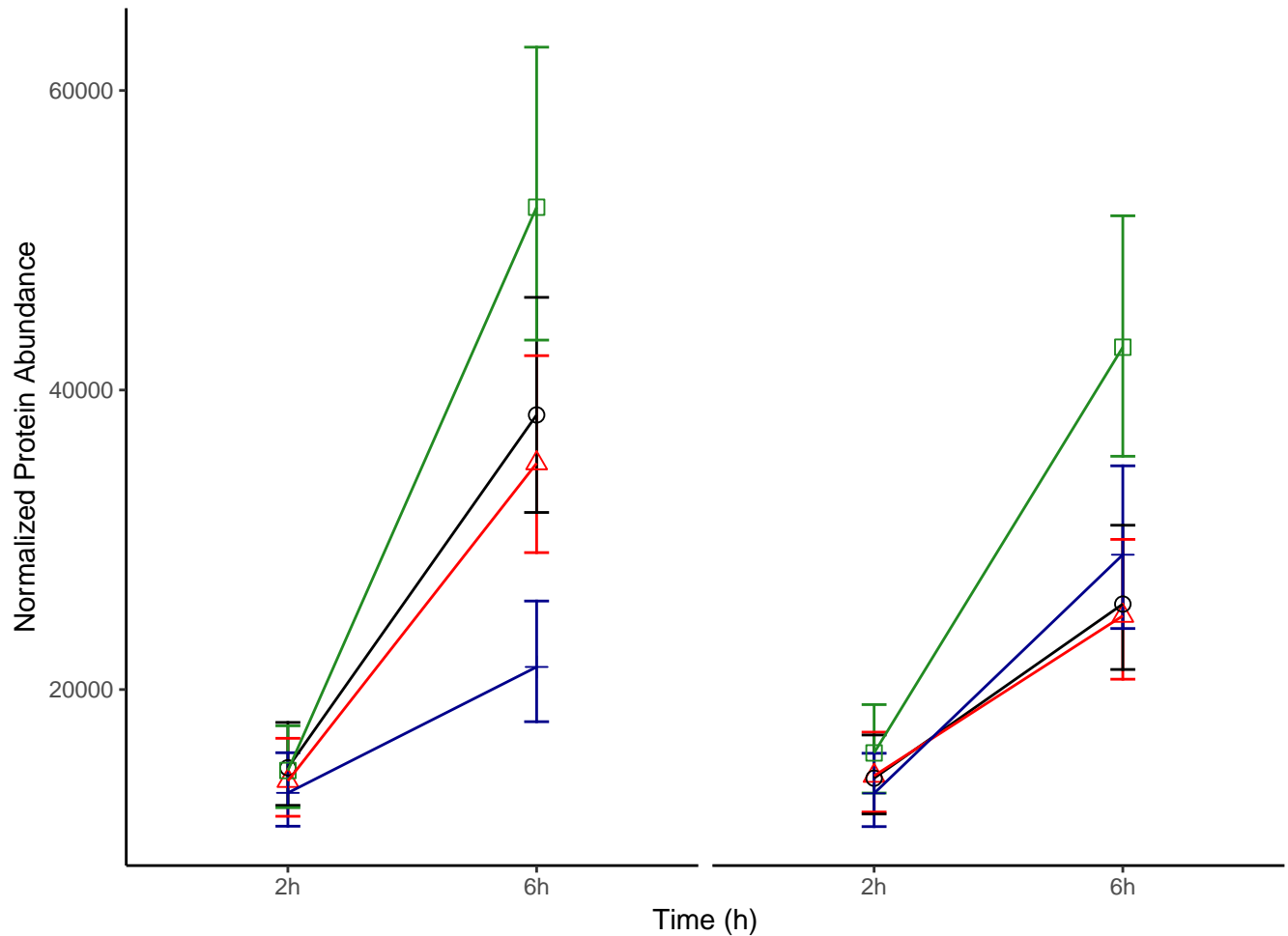


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LDH2\_STAAM

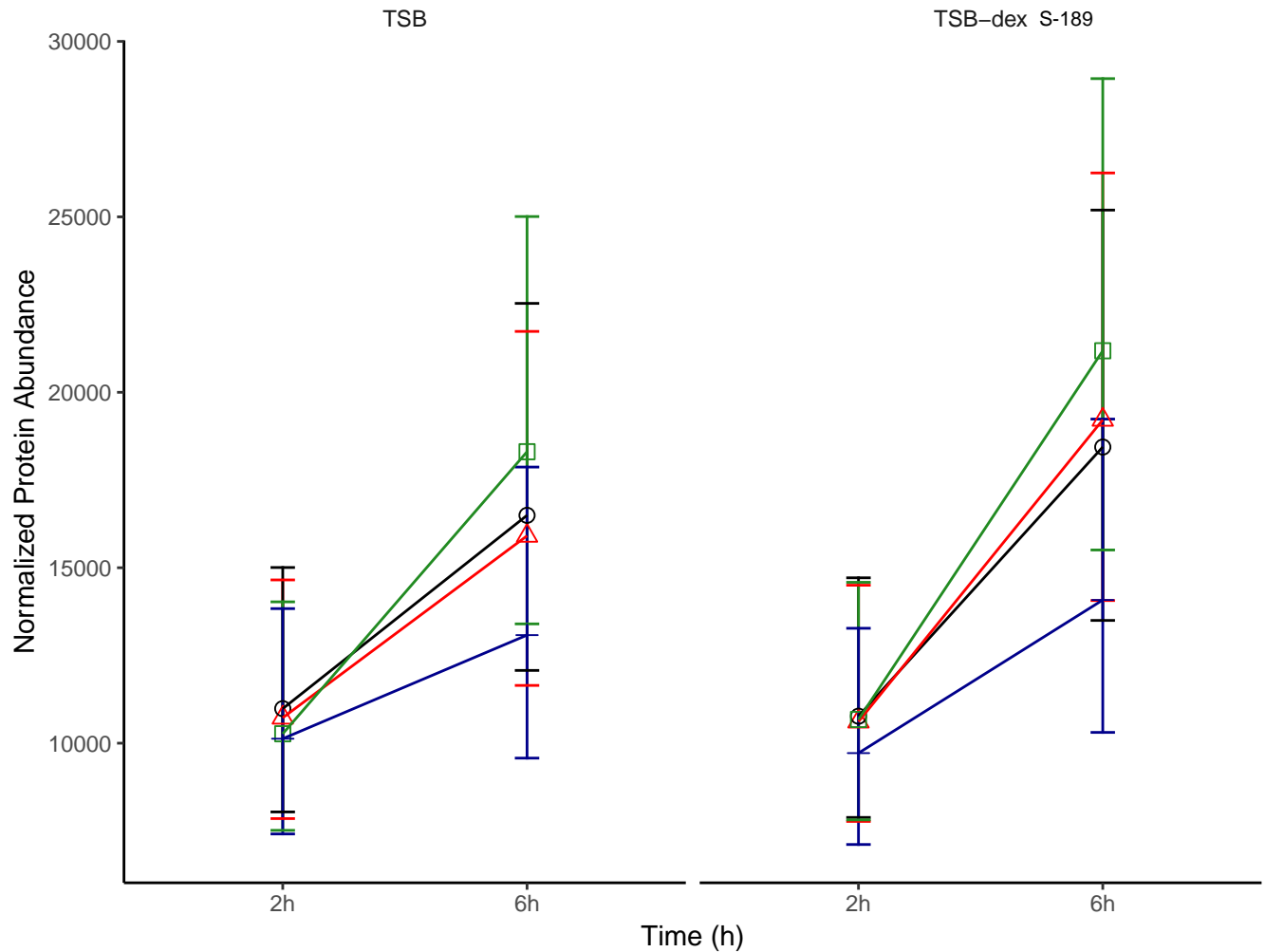
TSB

TSB-dex S-188



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LDHD\_STAAM

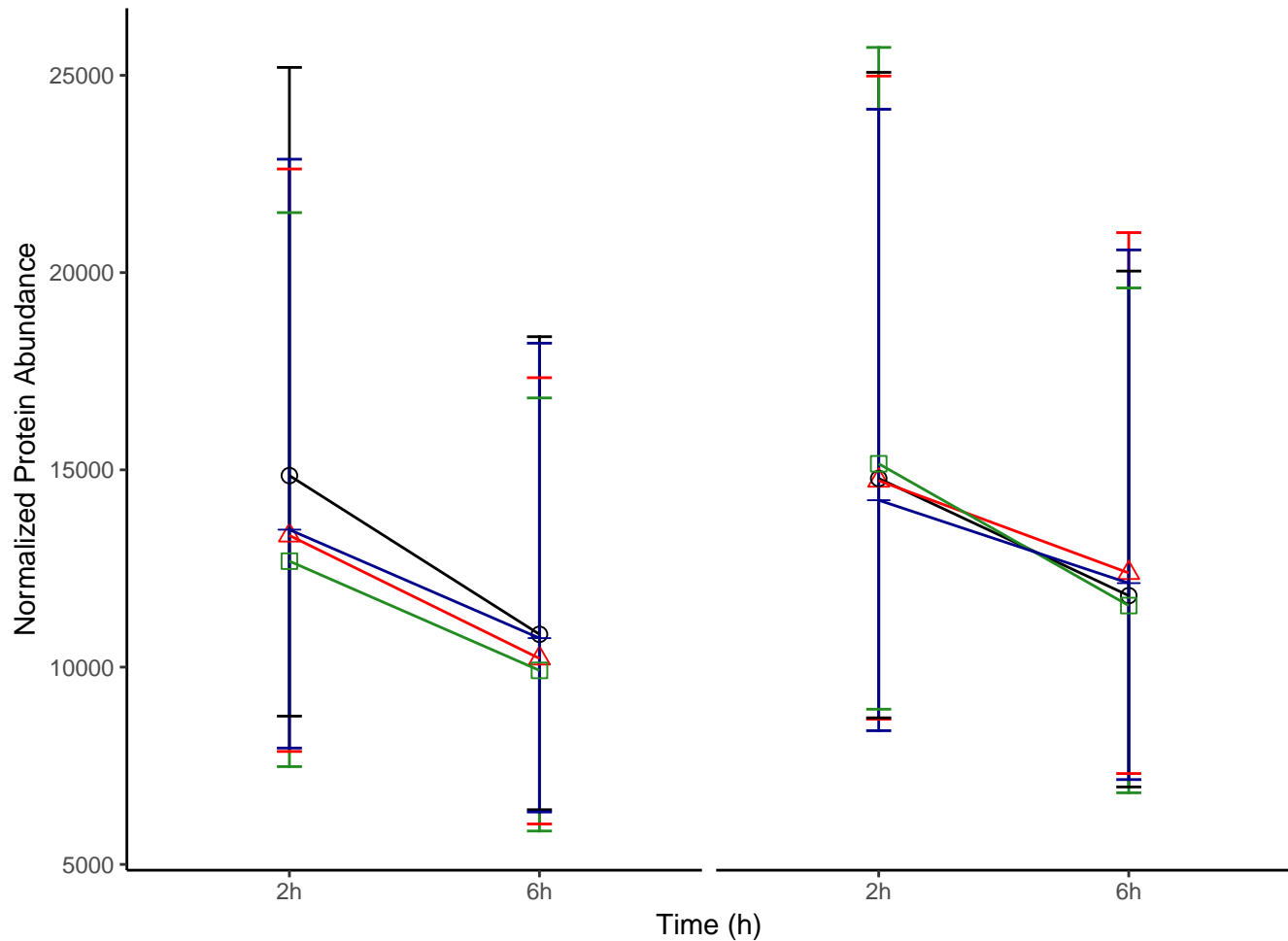


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## LEP\_STAAM

TSB

TSB-dex S-190

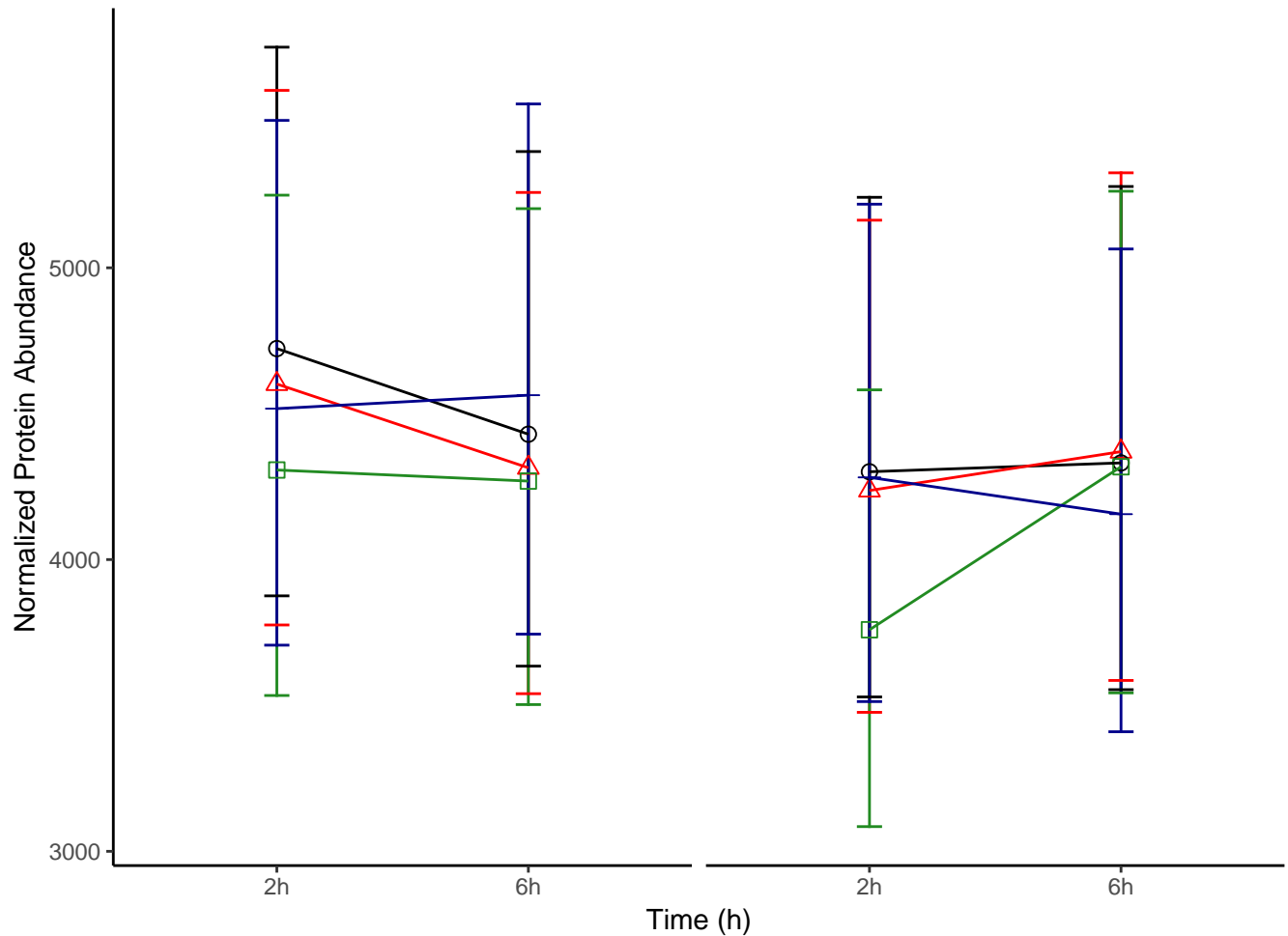


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## LEPA\_STAAM

TSB

TSB-dex S-191

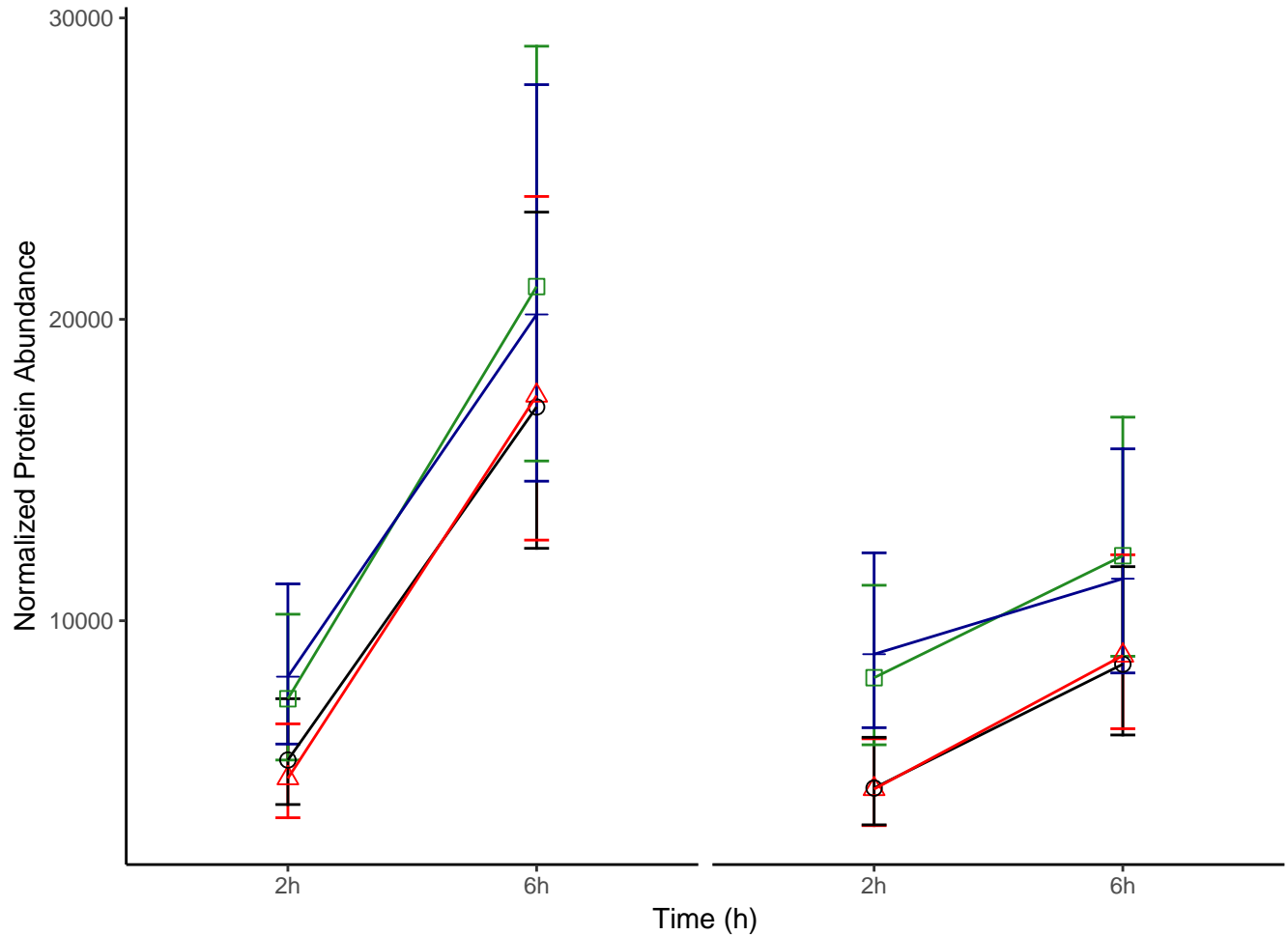


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LEU1\_STAAM

TSB

TSB-dex S-192



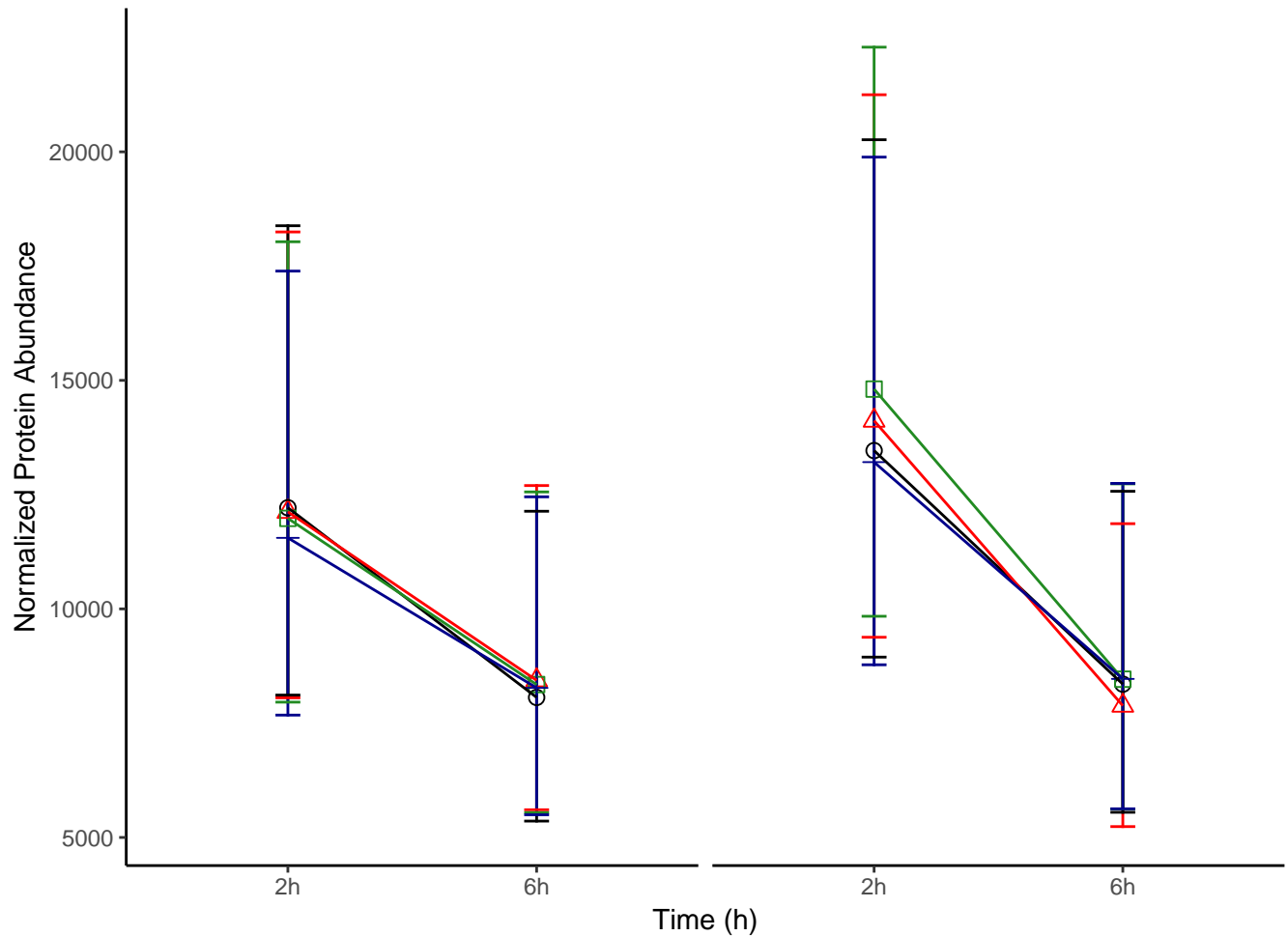
- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# LIPA\_STAAM

TSB

TSB-dex S-193

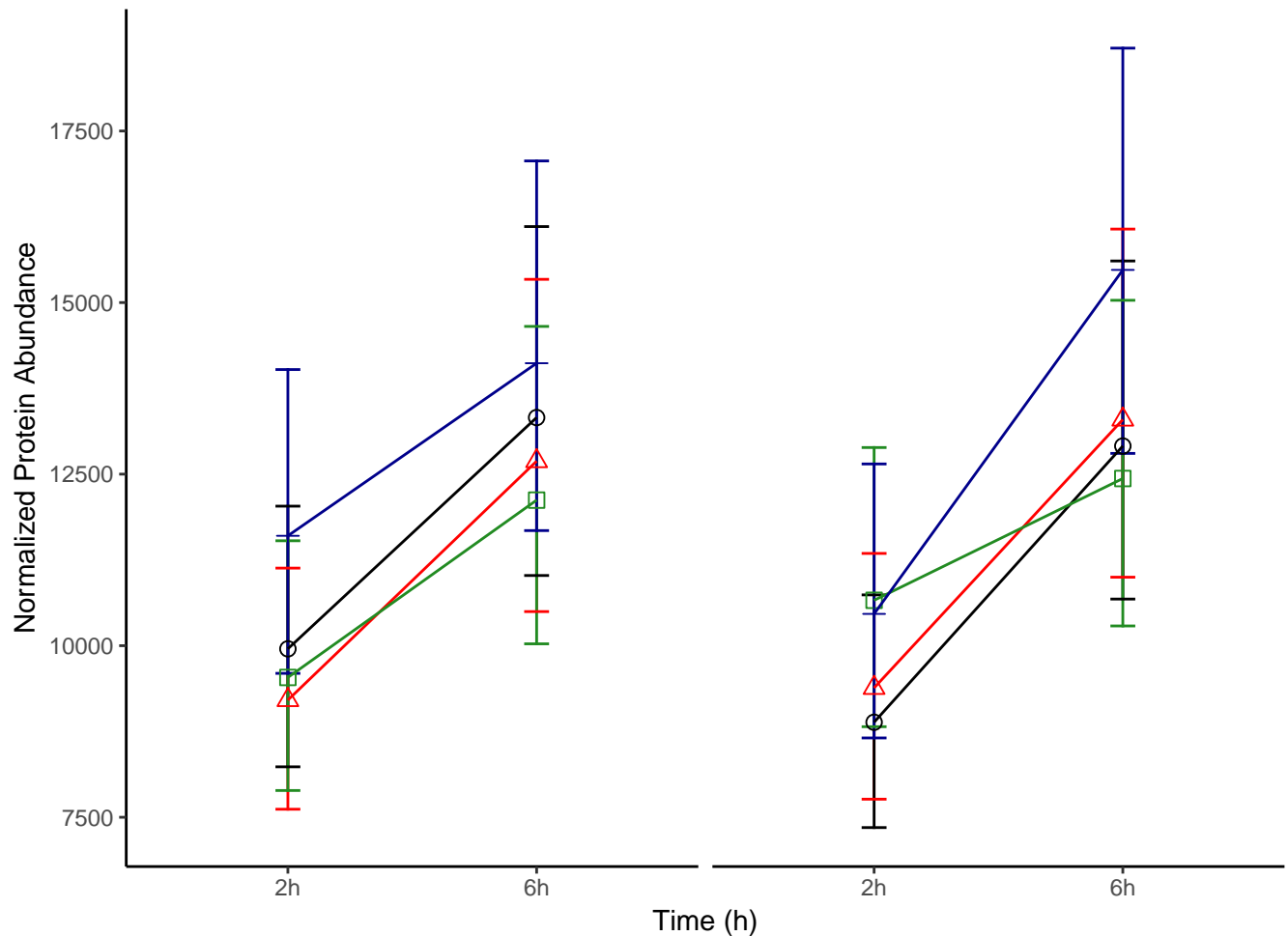


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# LUXS\_STAAM

TSB

TSB-dex S-194

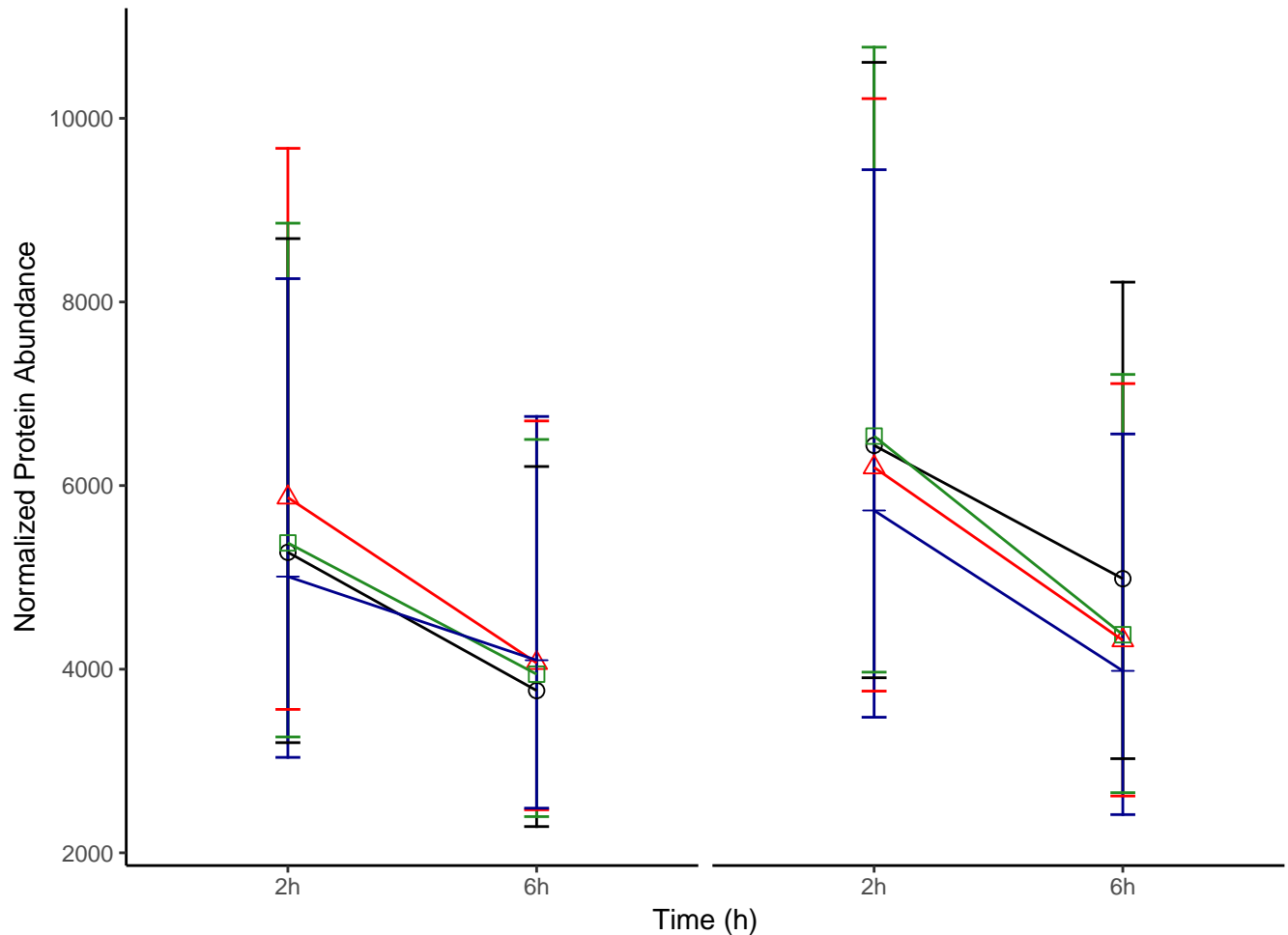


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# LYTH\_STAAM

TSB

TSB-dex S-195

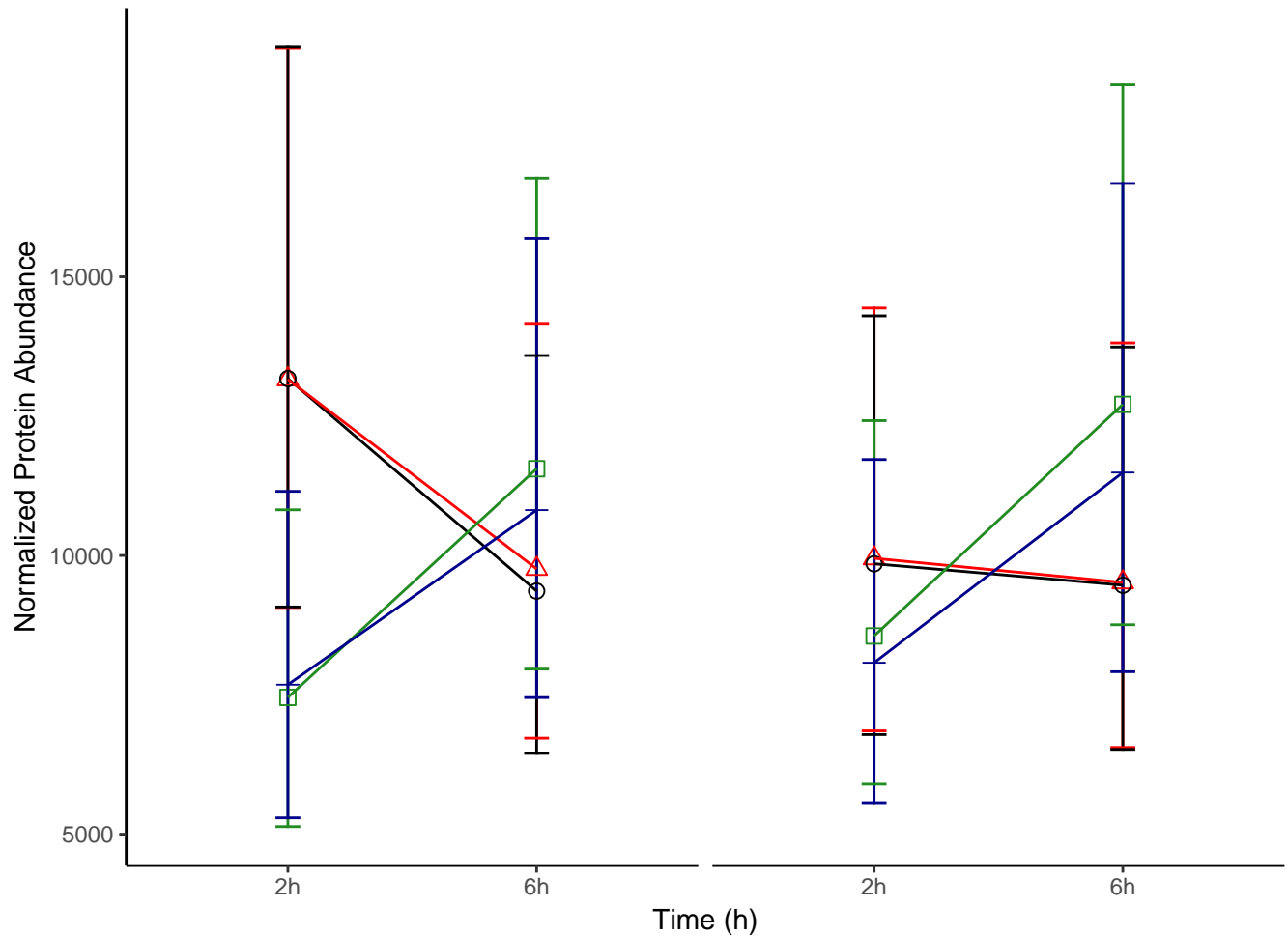


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LYTN\_STAAM

TSB

TSB-dex S-196

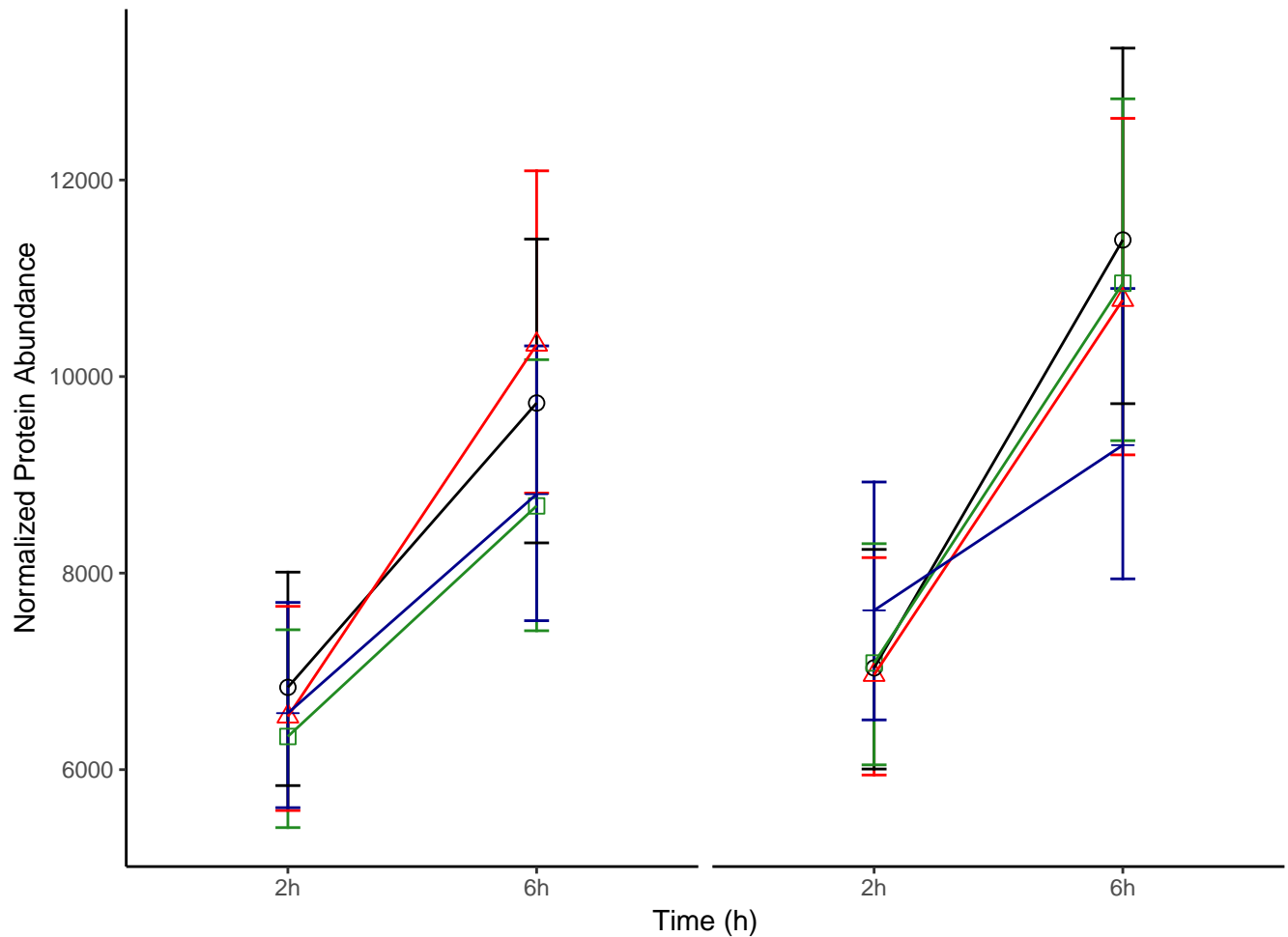


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MAP\_STAAM

TSB

TSB-dex S-197

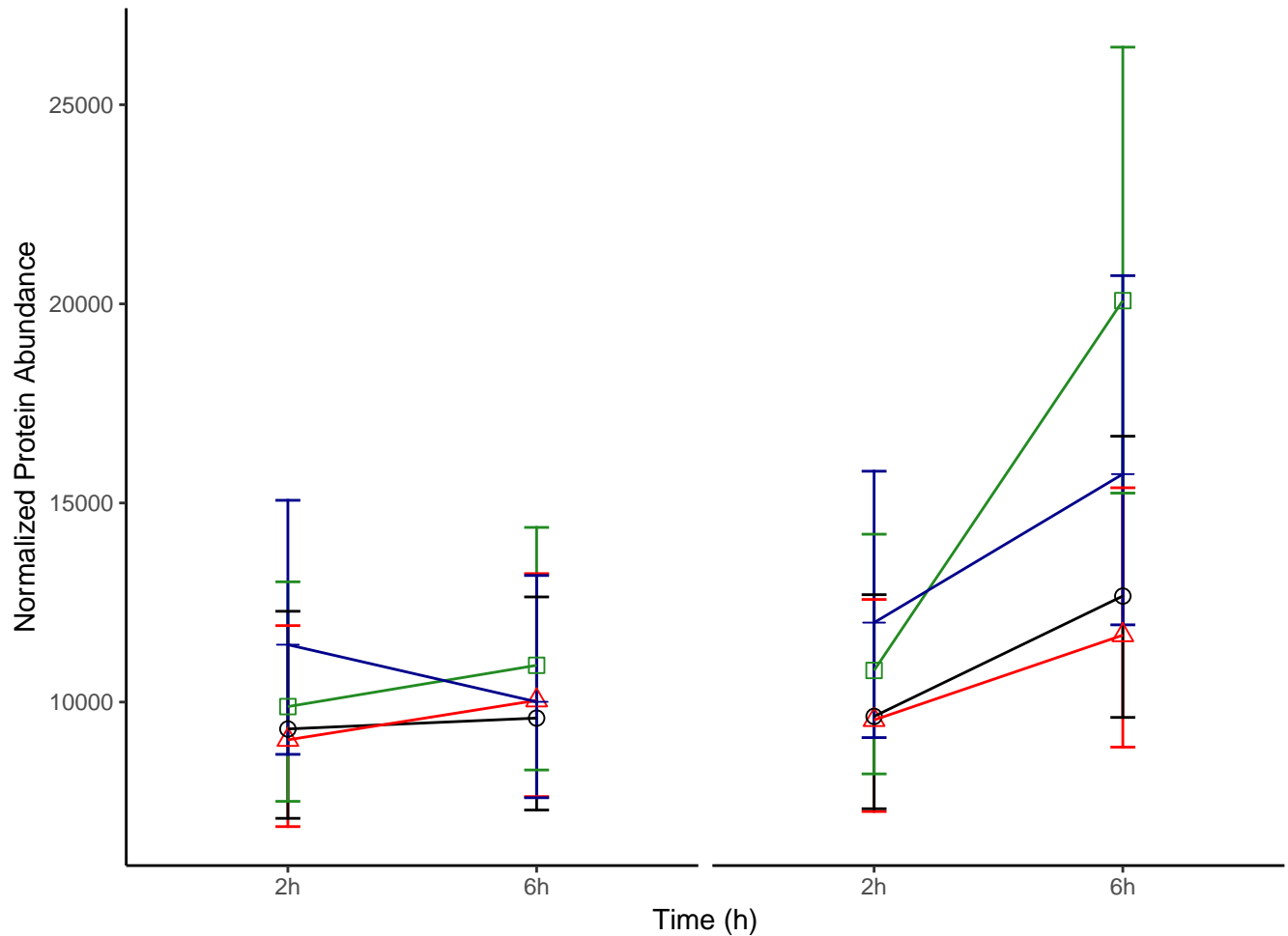


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MAP1\_STAAM

TSB

TSB-dex S-198

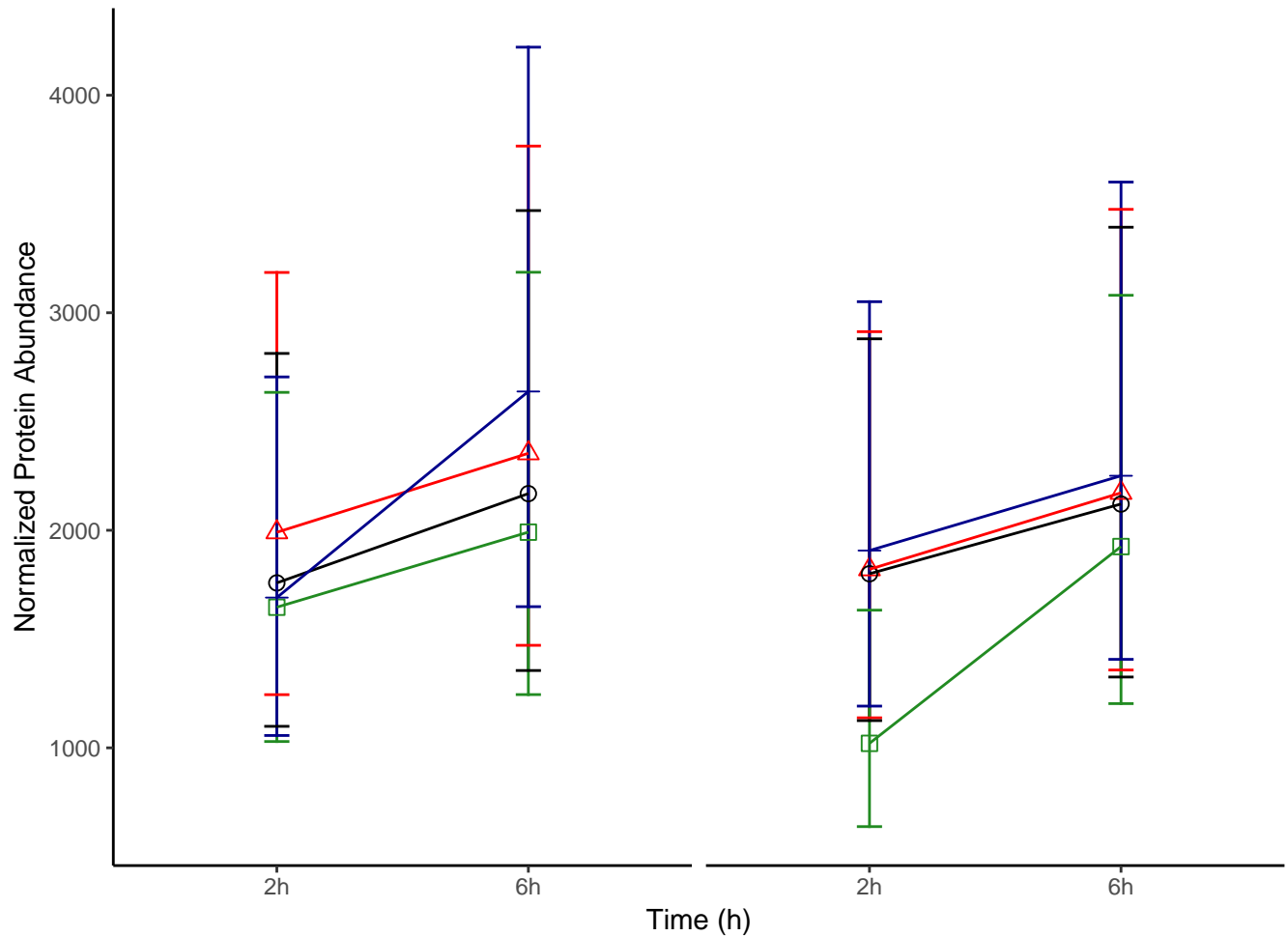


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MAZF\_STAAM

TSB

TSB-dex S-199

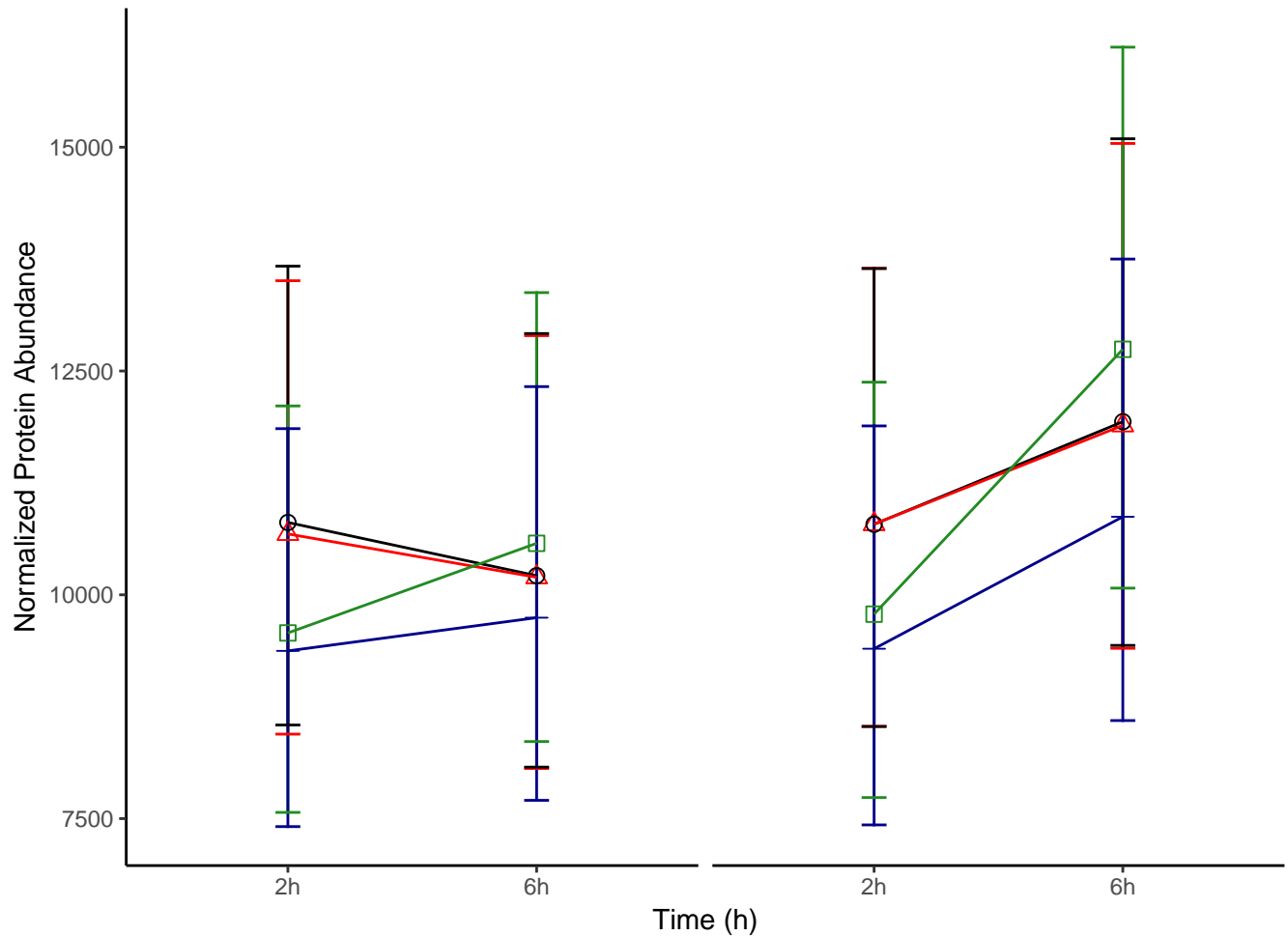


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MENB\_STAAM

TSB

TSB-dex S-200



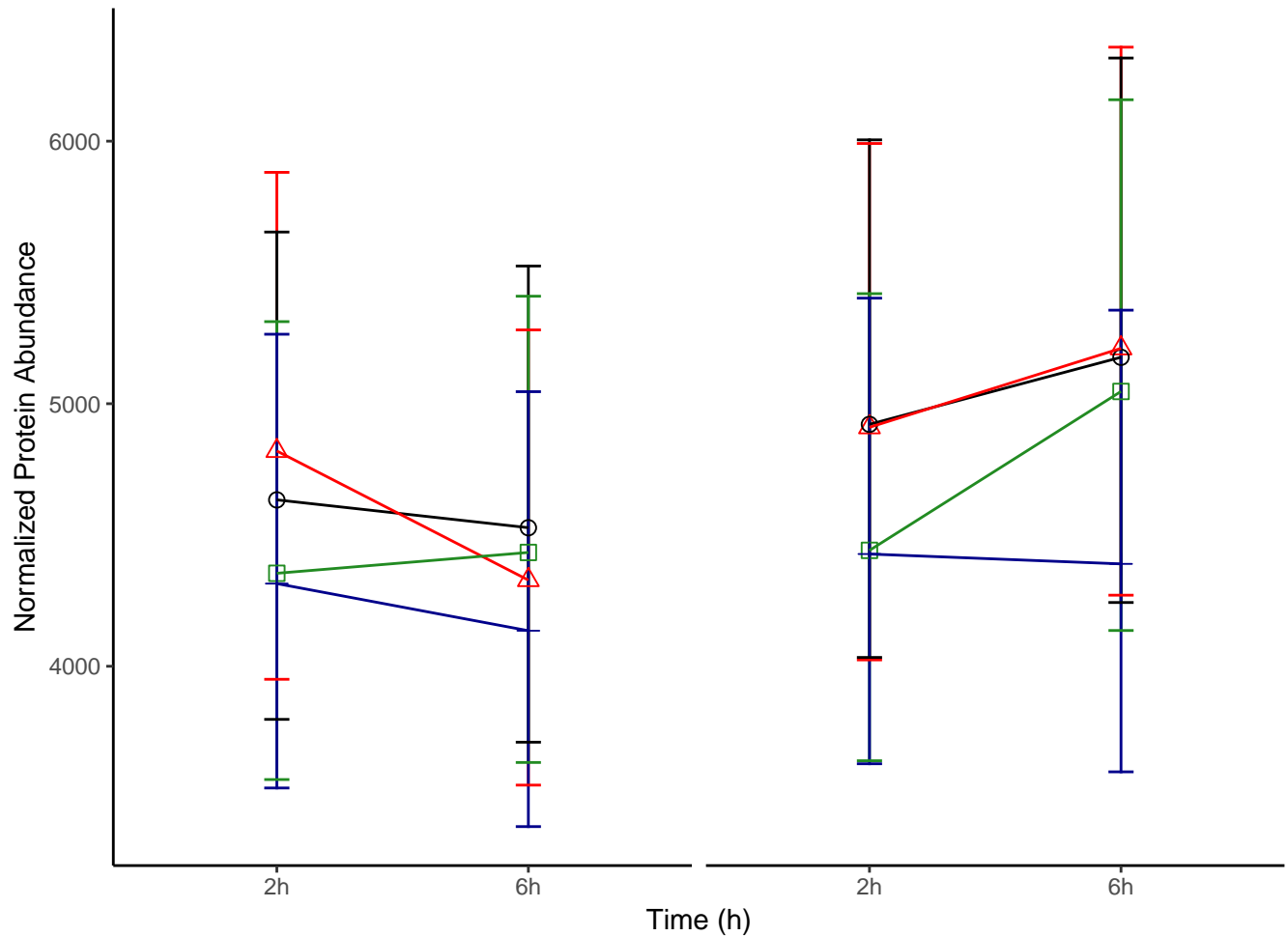
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# MENG\_STAAM

TSB

TSB-dex S-201

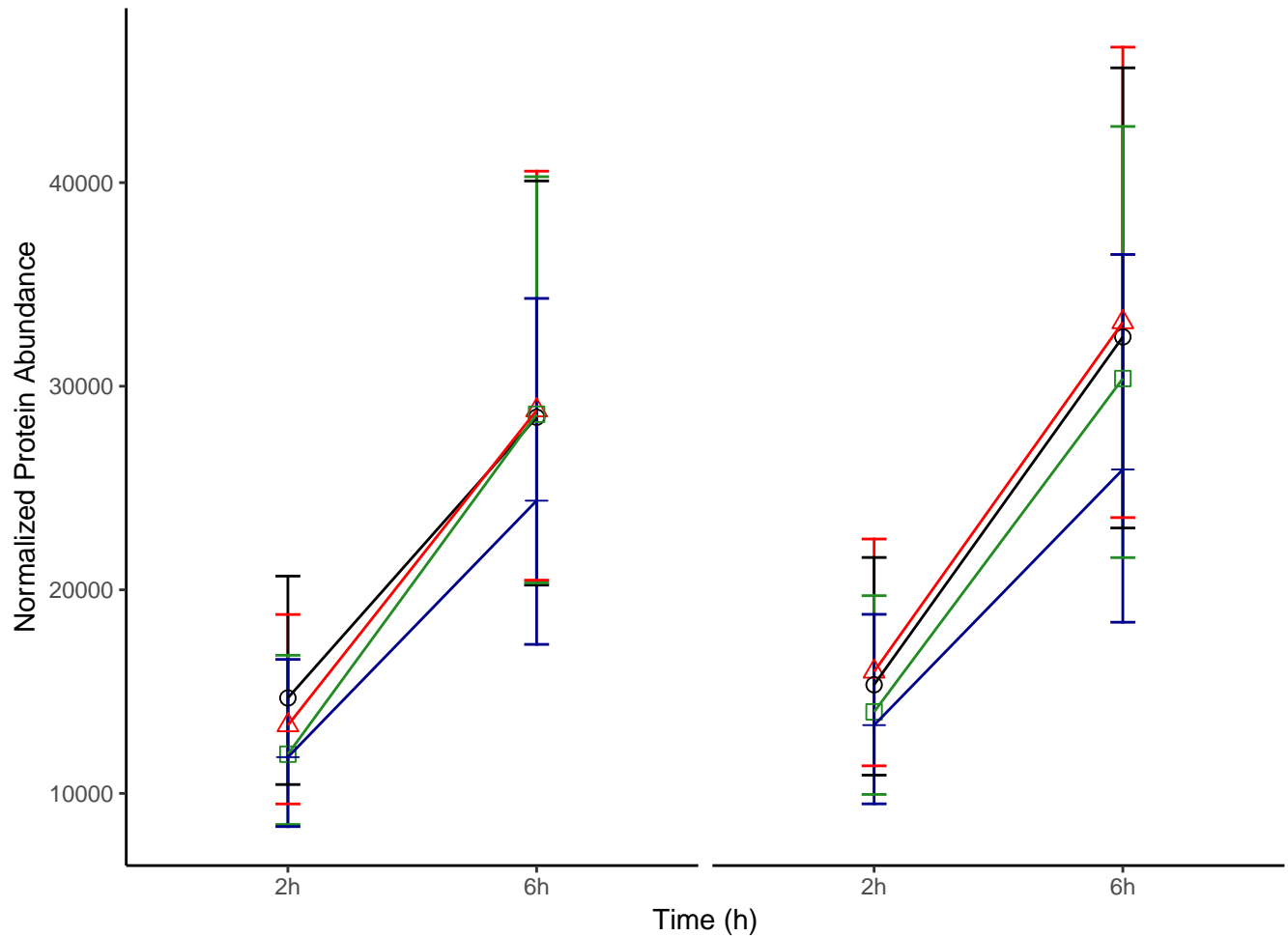


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# METK\_STAAM

TSB

TSB-dex S-202

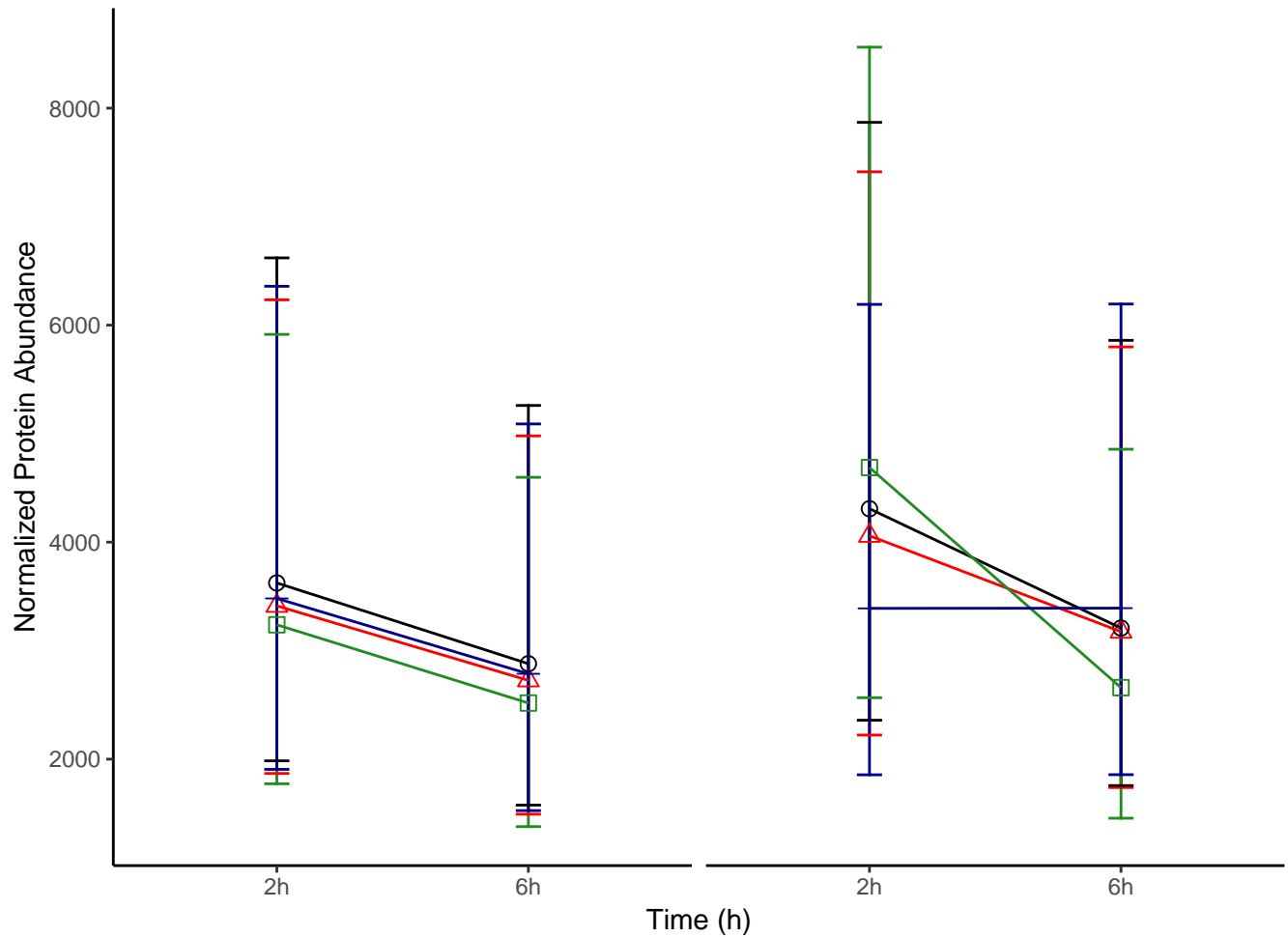


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# METN2\_STAAM

TSB

TSB-dex S-203

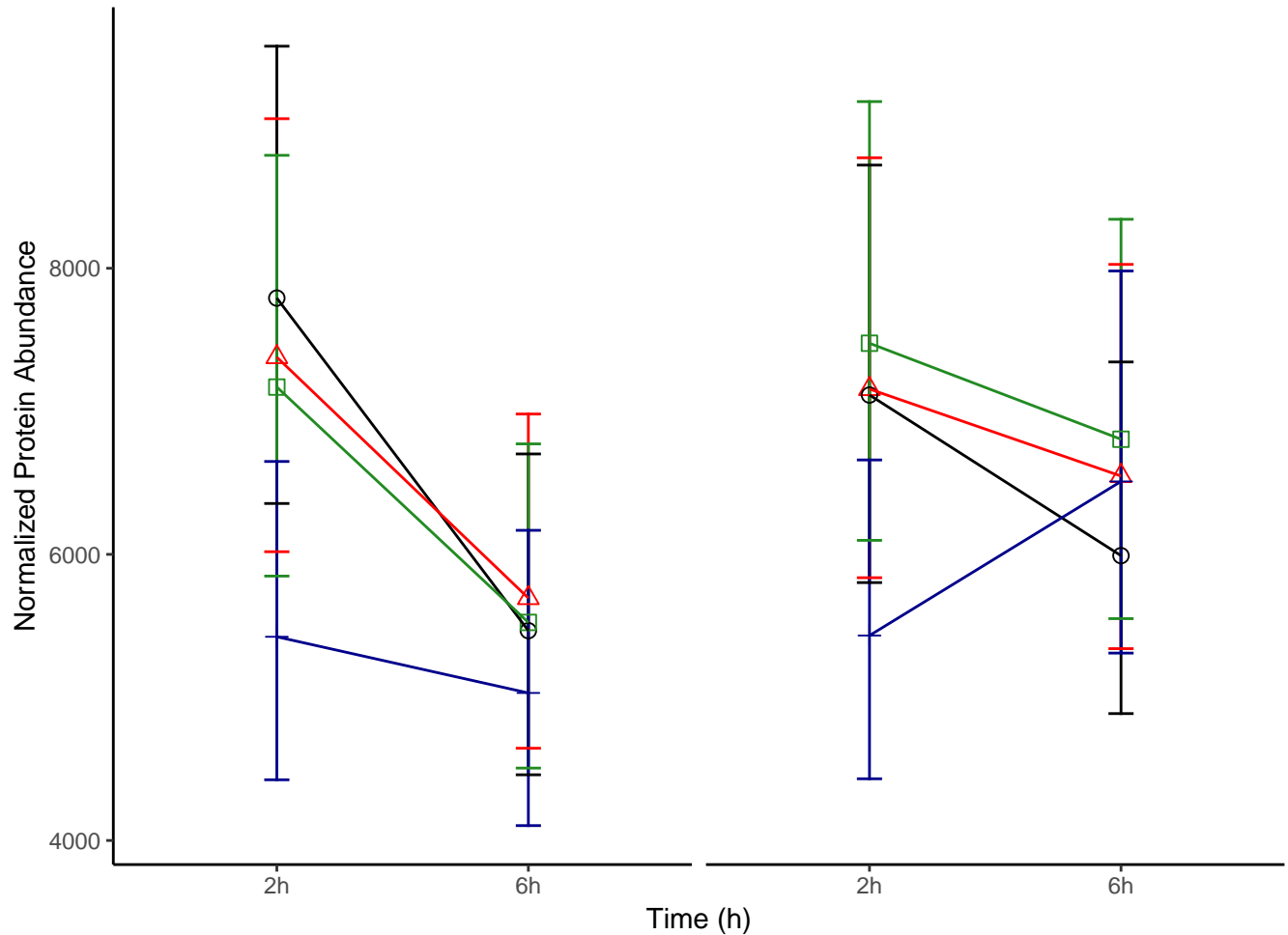


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MGRA\_STAAM

TSB

TSB-dex S-204

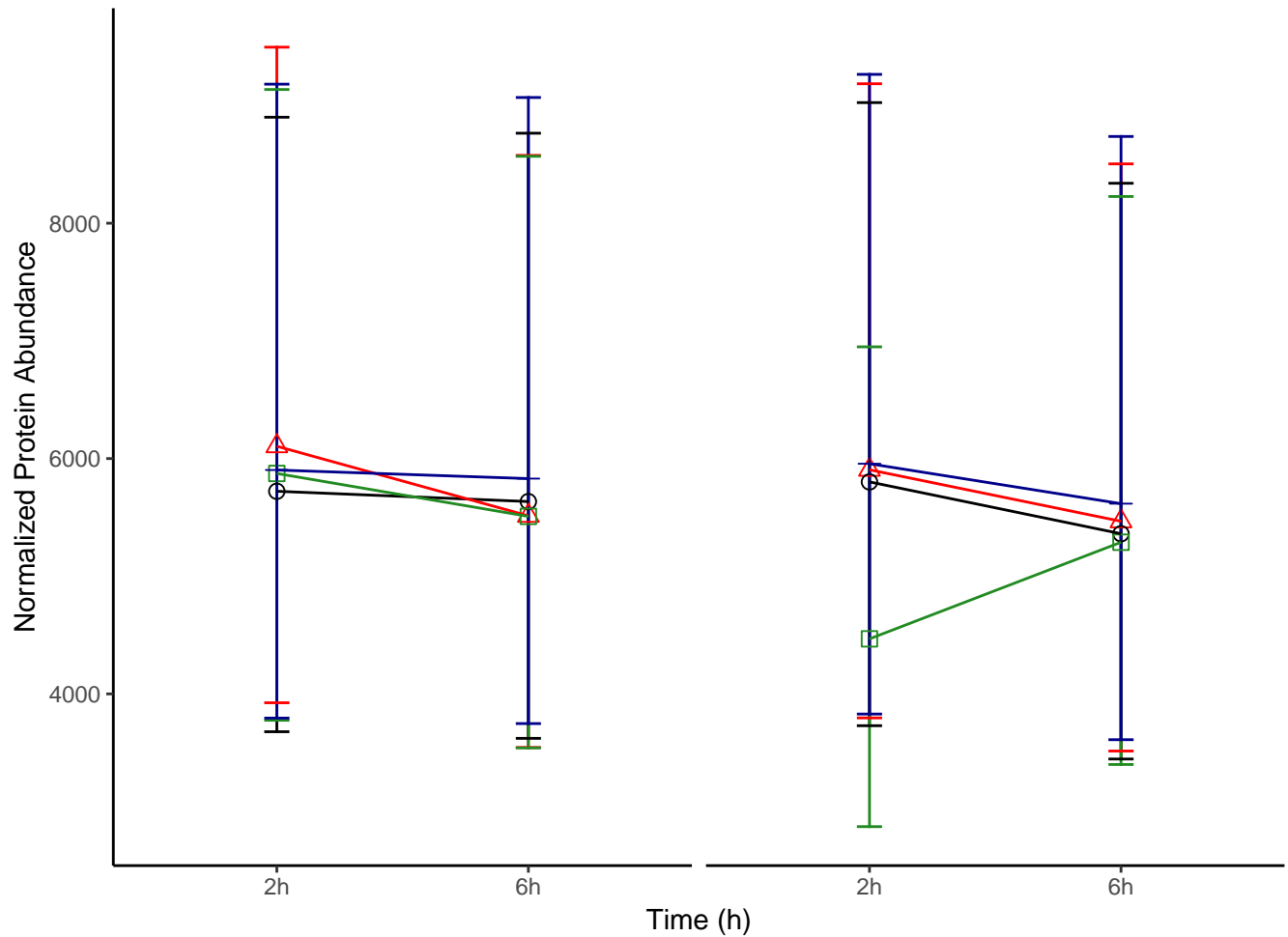


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MIAB\_STAAM

TSB

TSB-dex S-205

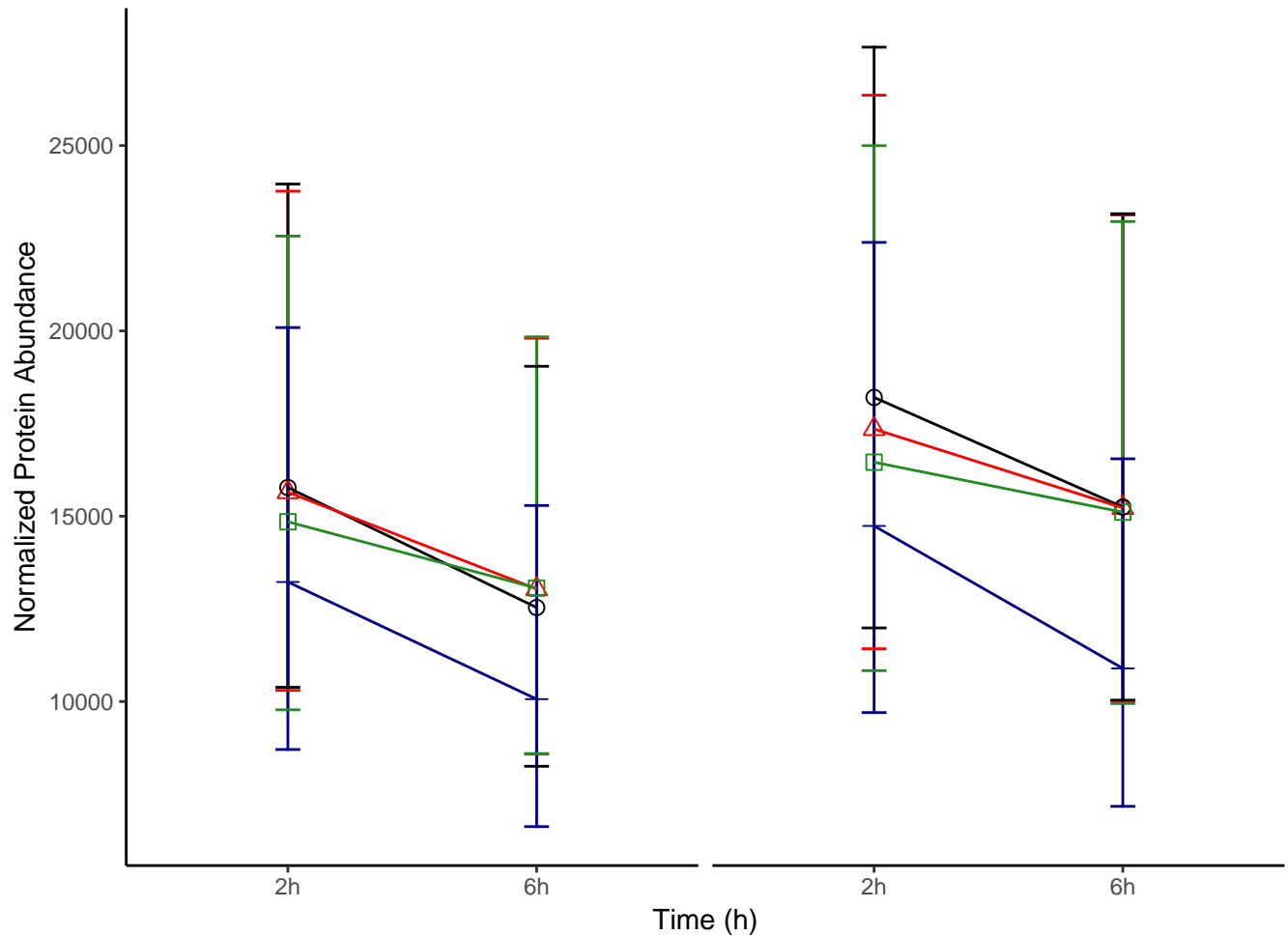


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MNME\_STAAM

TSB

TSB-dex S-206

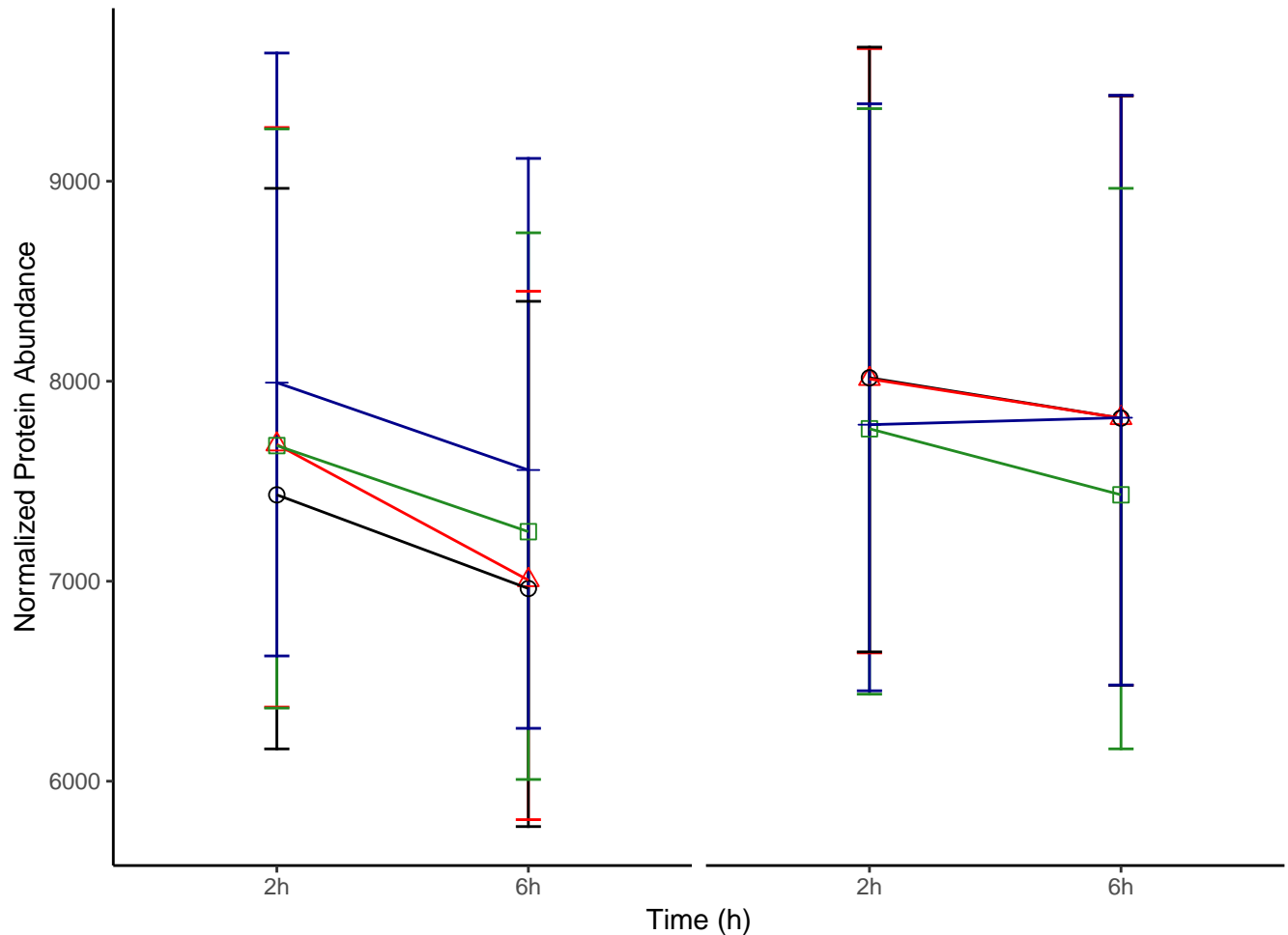


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MNMG\_STAAM

TSB

TSB-dex S-207

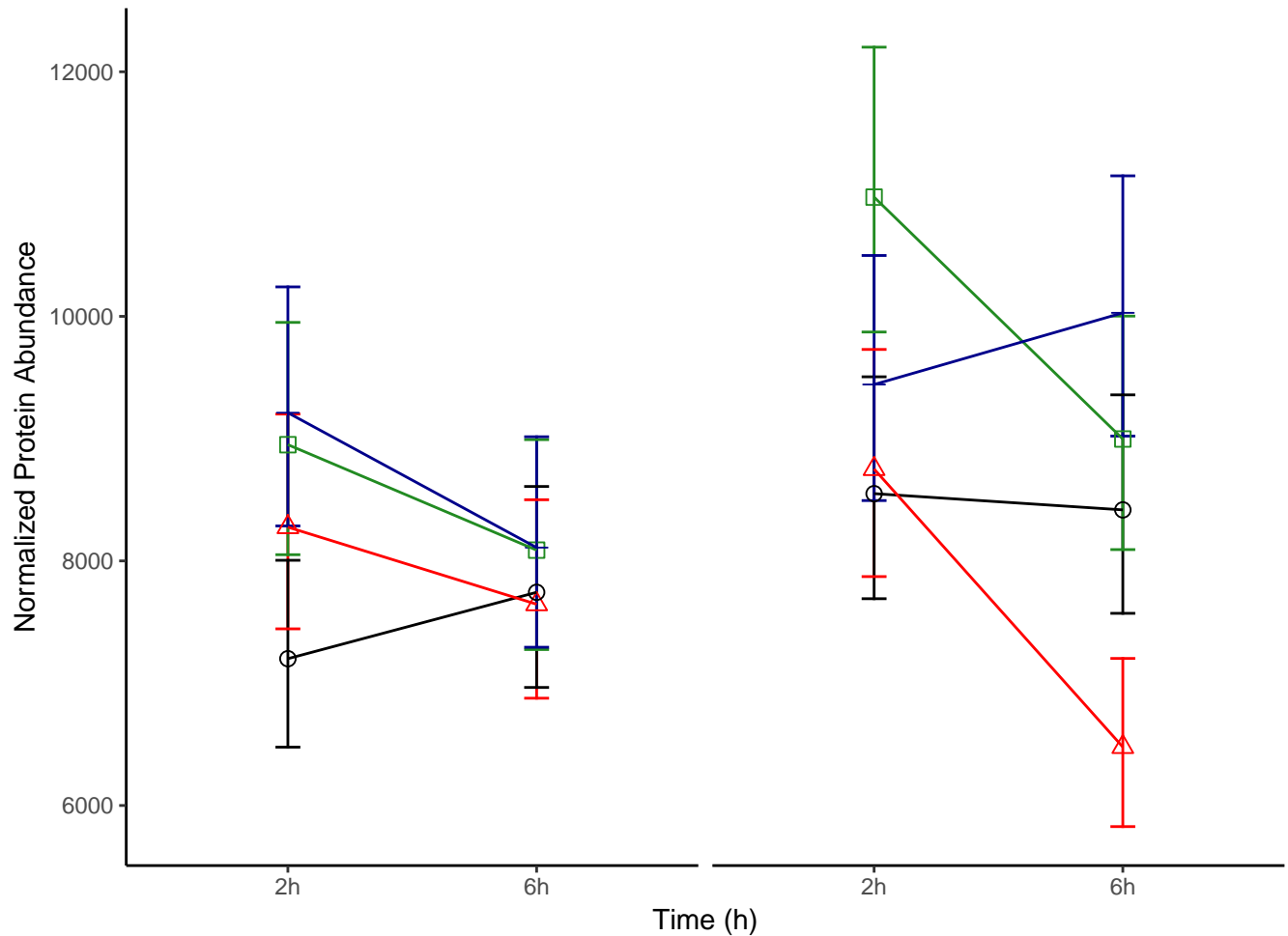


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MOAC\_STAAM

TSB

TSB-dex S-208



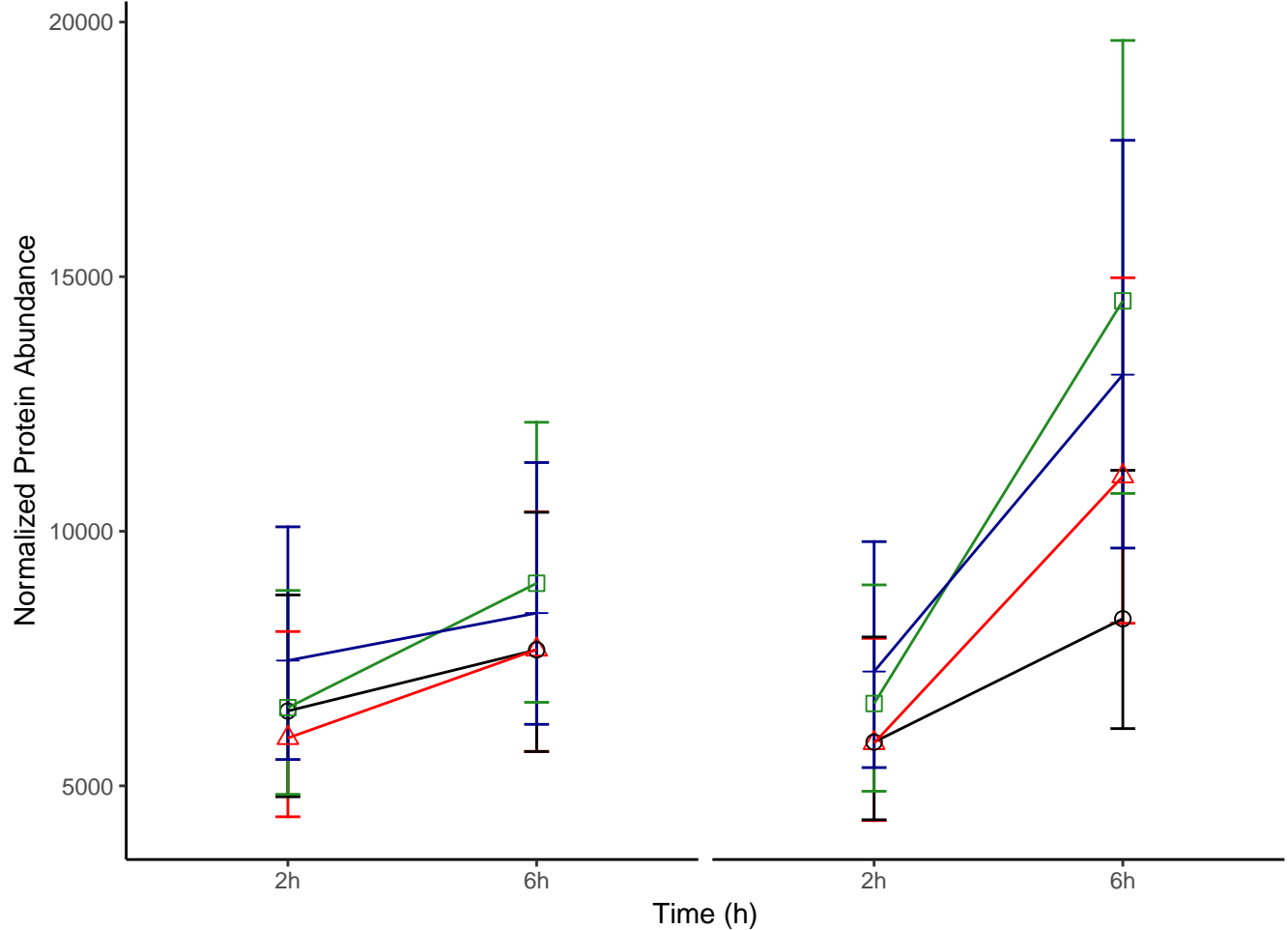
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MOEA\_STAAM

TSB

TSB-dex S-209

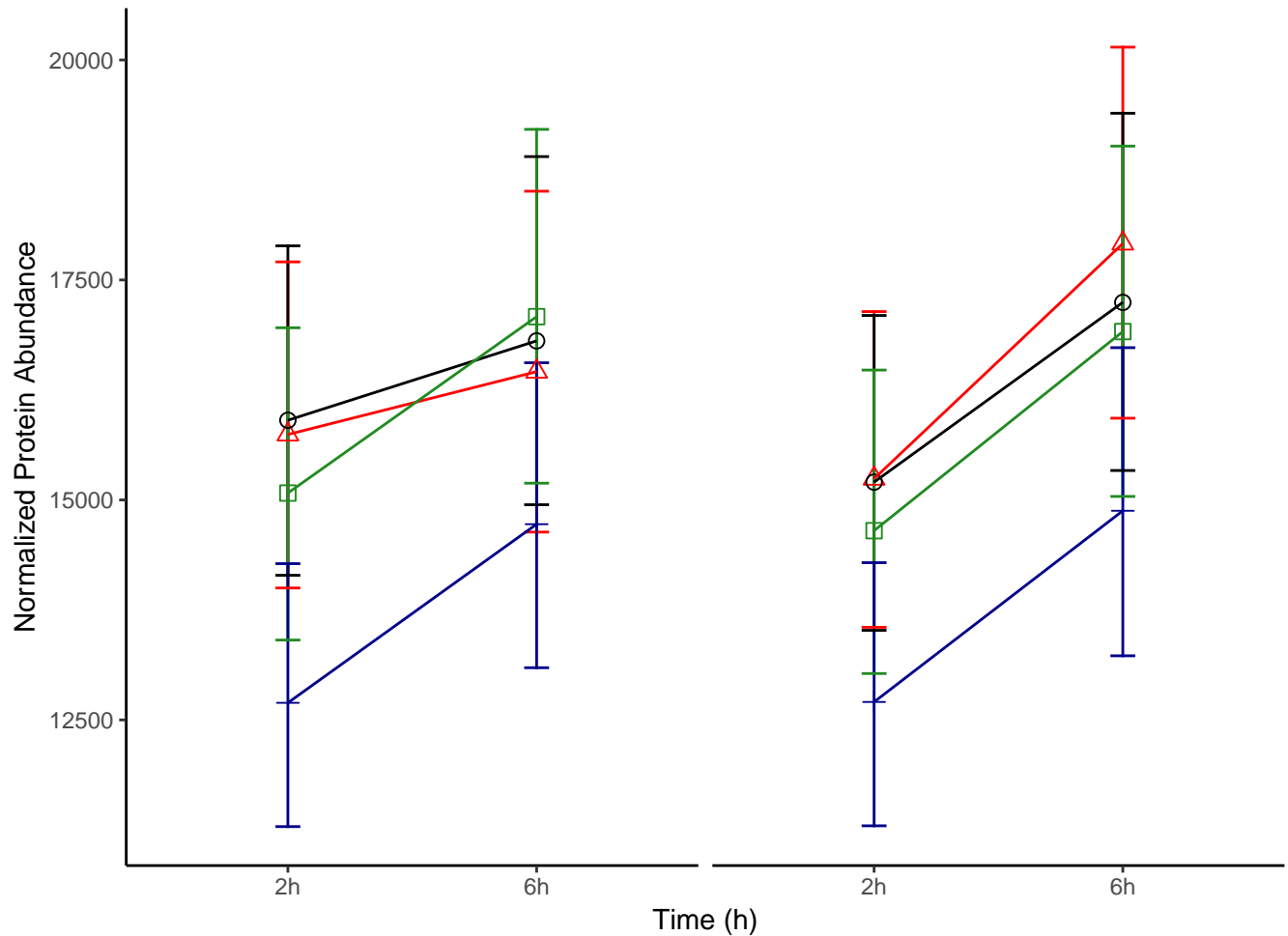


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MQO2\_STAAM

TSB

TSB-dex S-210

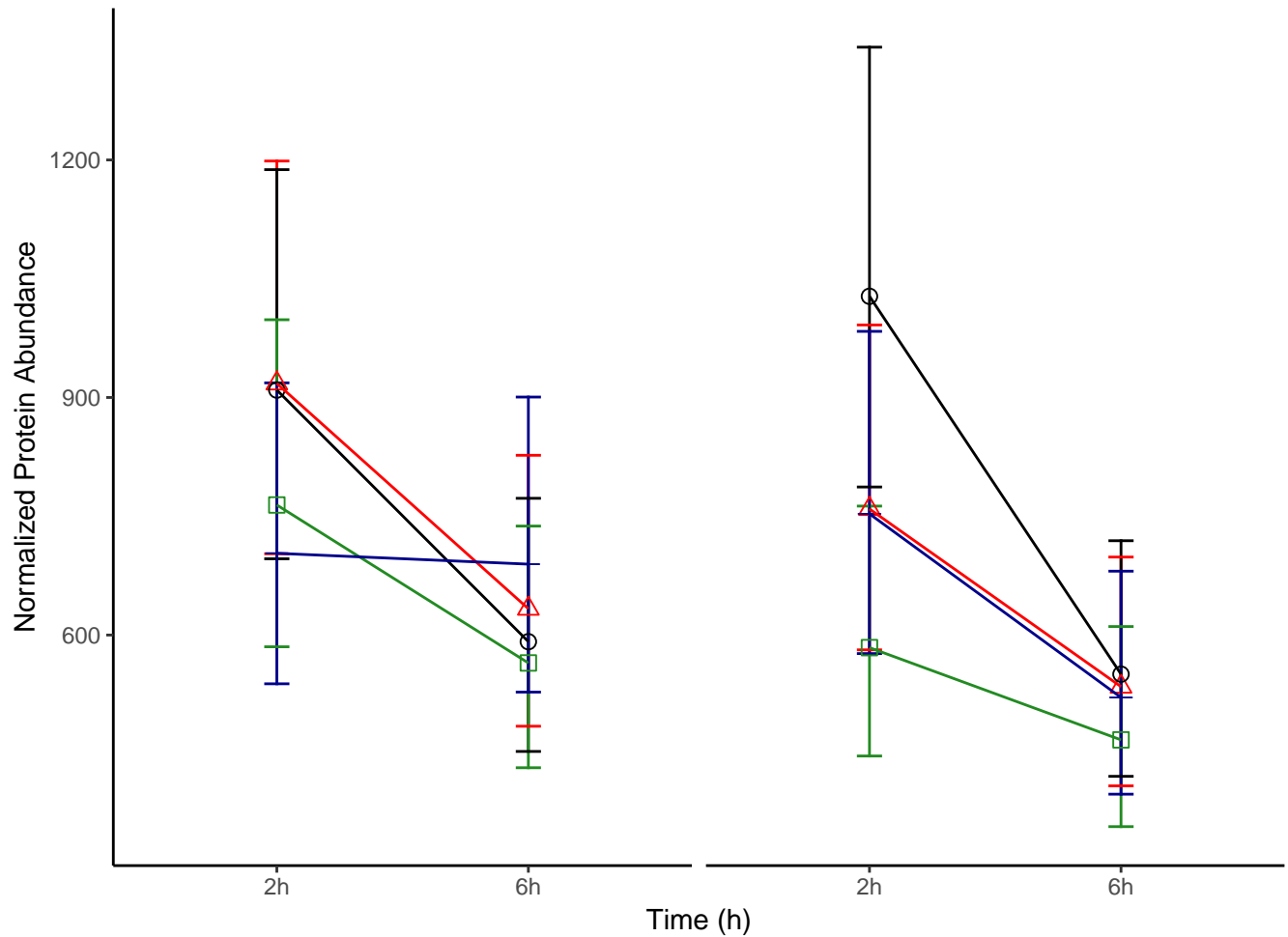


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MSRA1\_STAAM

TSB

TSB-dex S-211

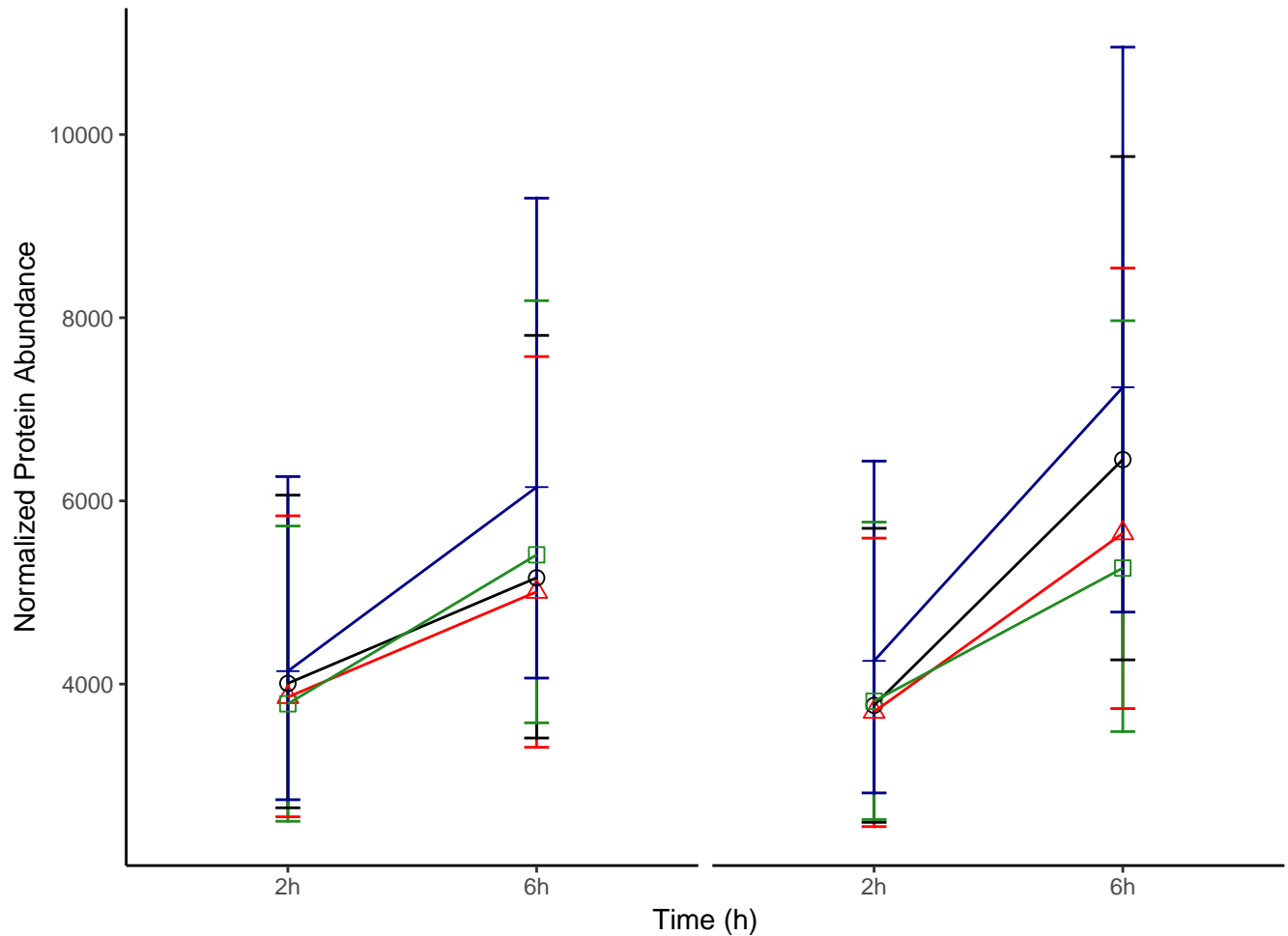


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MSRA2\_STAAM

TSB

TSB-dex S-212



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MSRB\_STAAM

TSB

TSB-dex S-213

Normalized Protein Abundance

20000

10000

2h

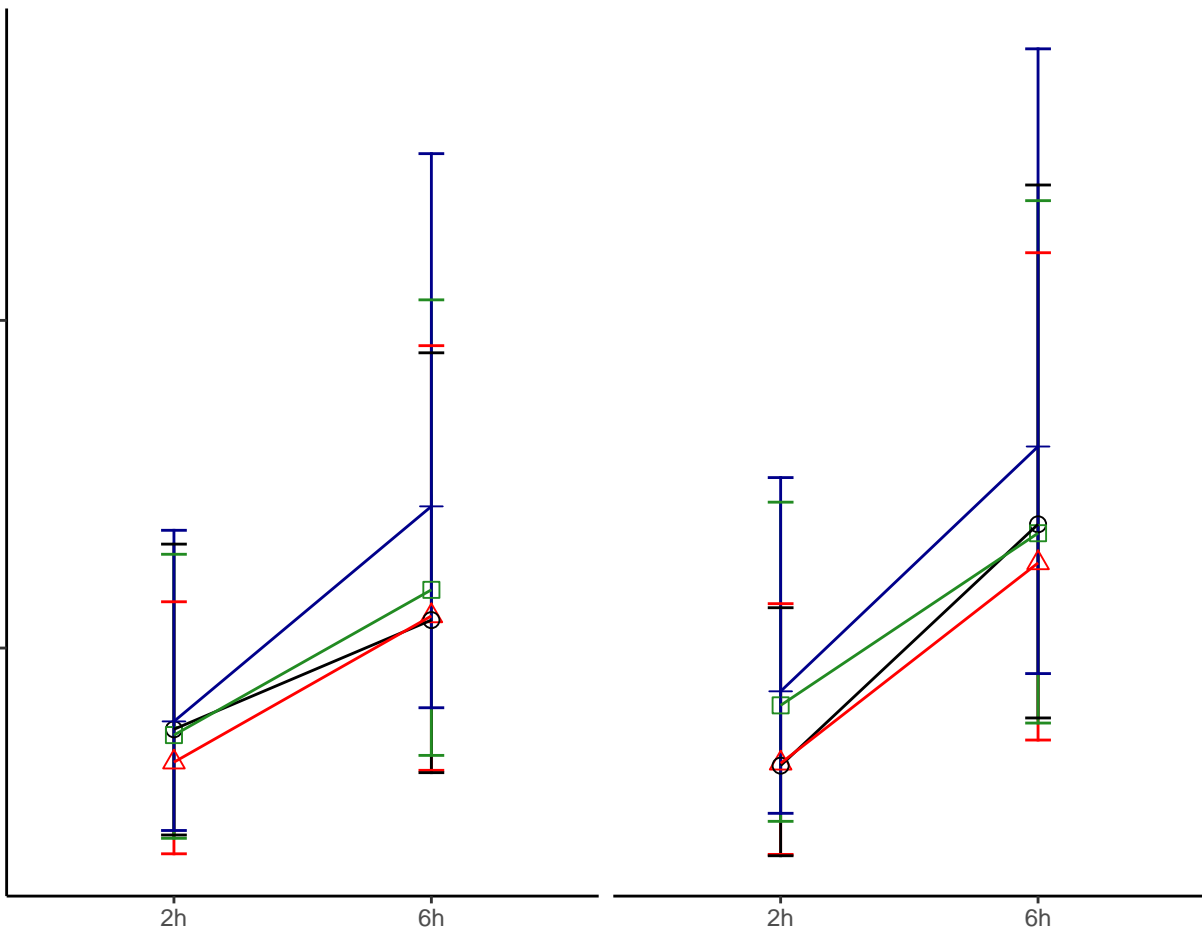
6h

Time (h)

2h

6h

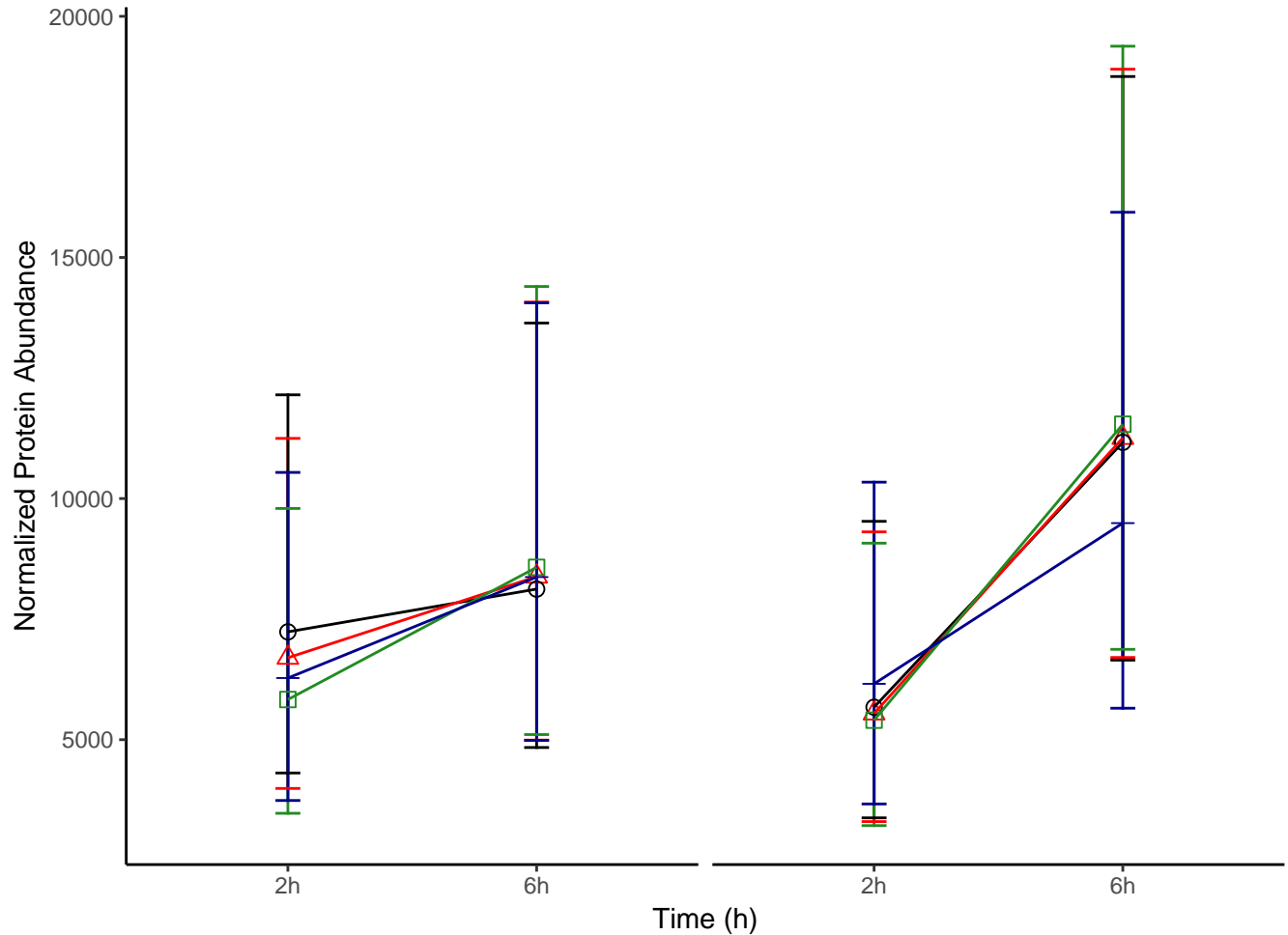
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MTLD\_STAAM

TSB

TSB-dex S-214

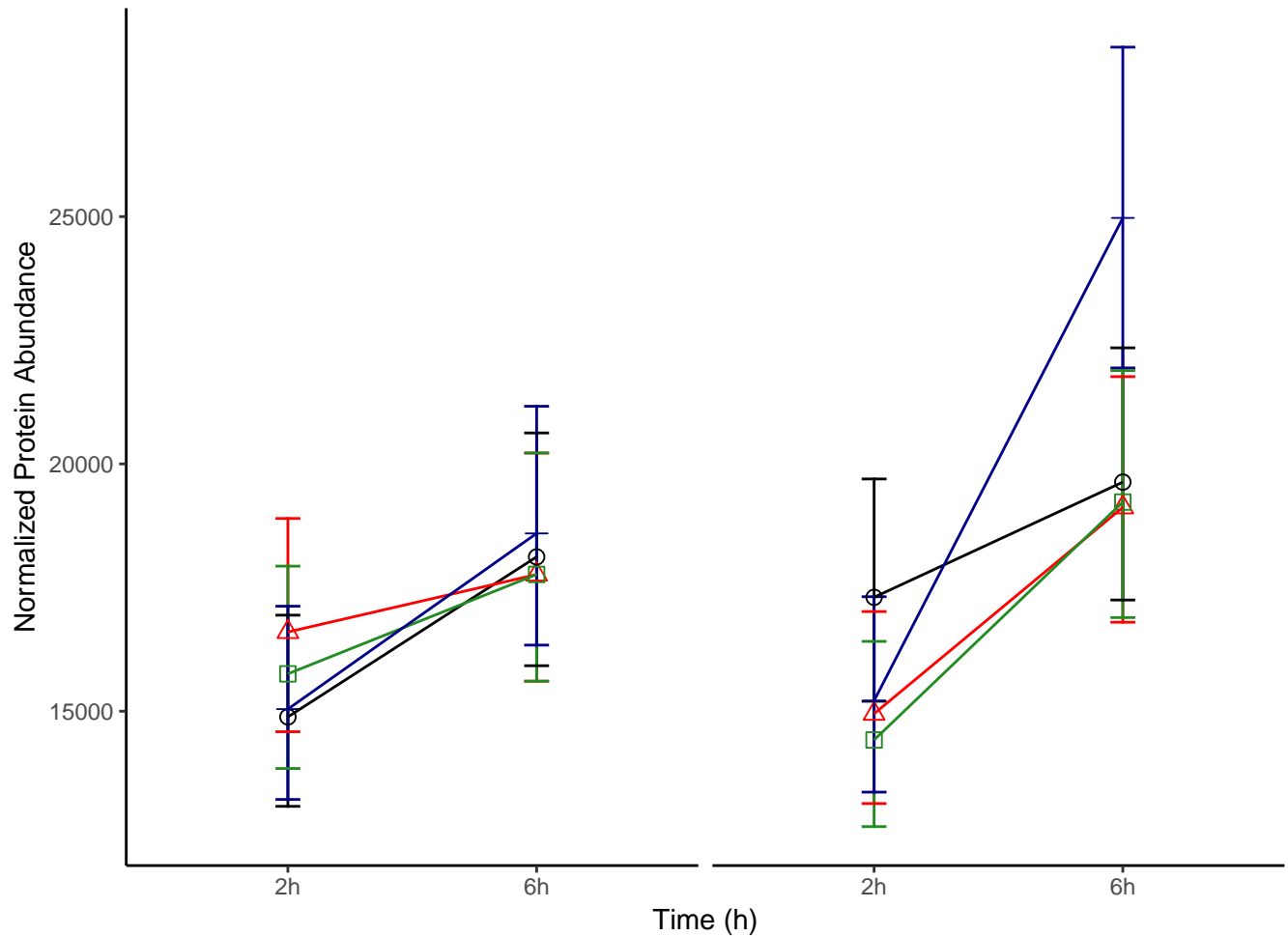


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MTNN\_STAAM

TSB

TSB-dex S-215

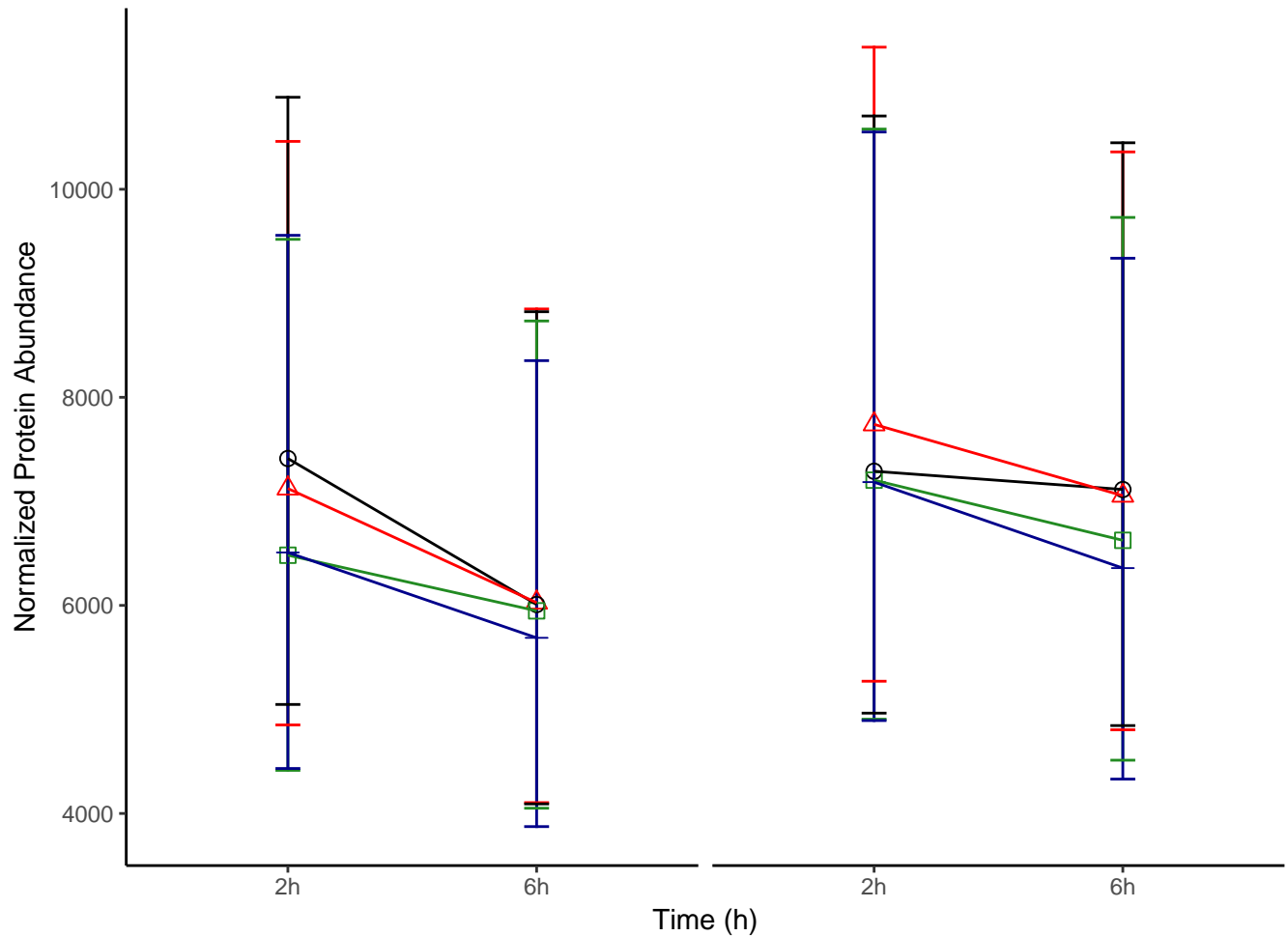


- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# MURA1\_STAAM

TSB

TSB-dex S-216



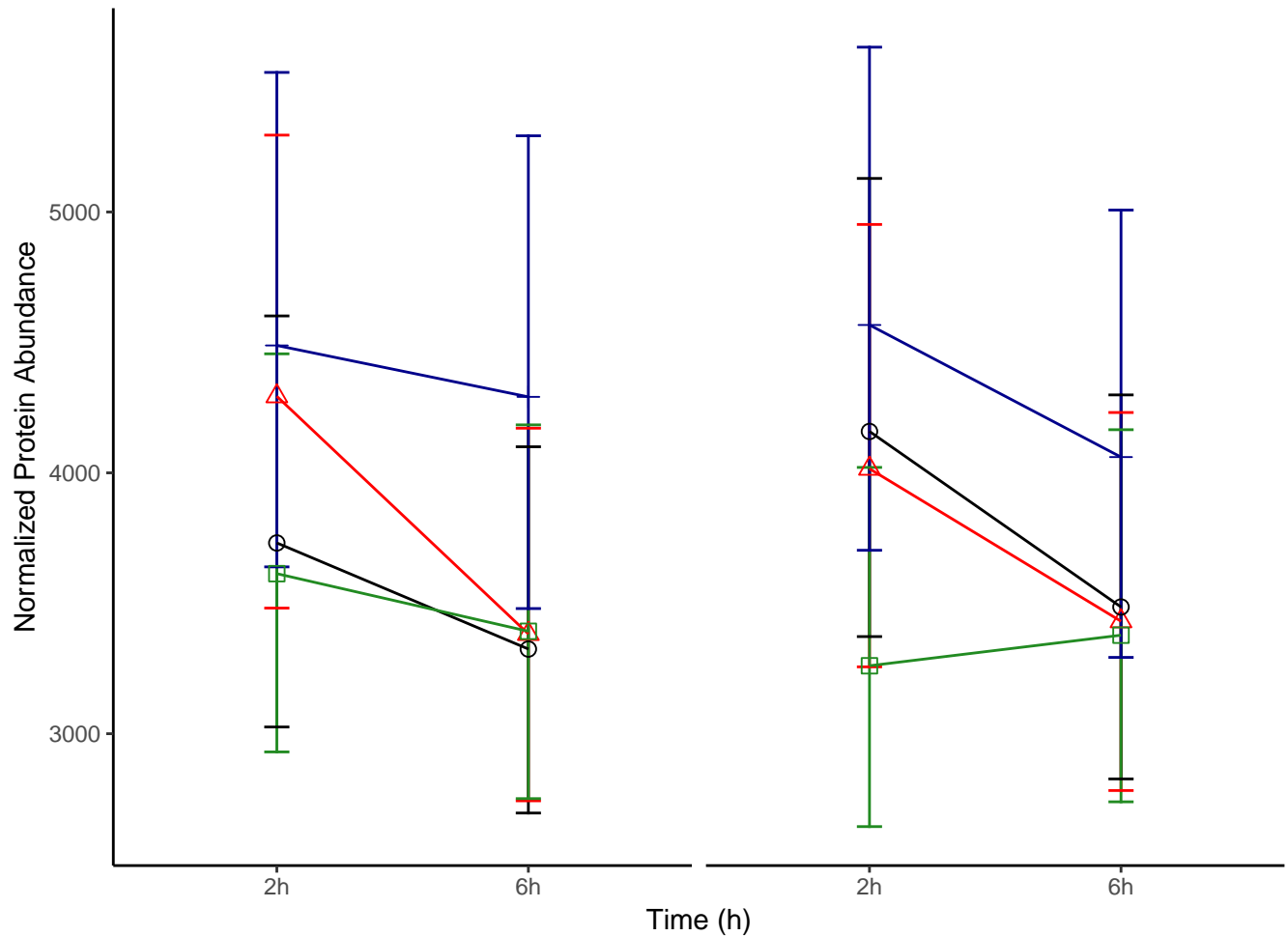
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# MURA2\_STAAM

TSB

TSB-dex S-217

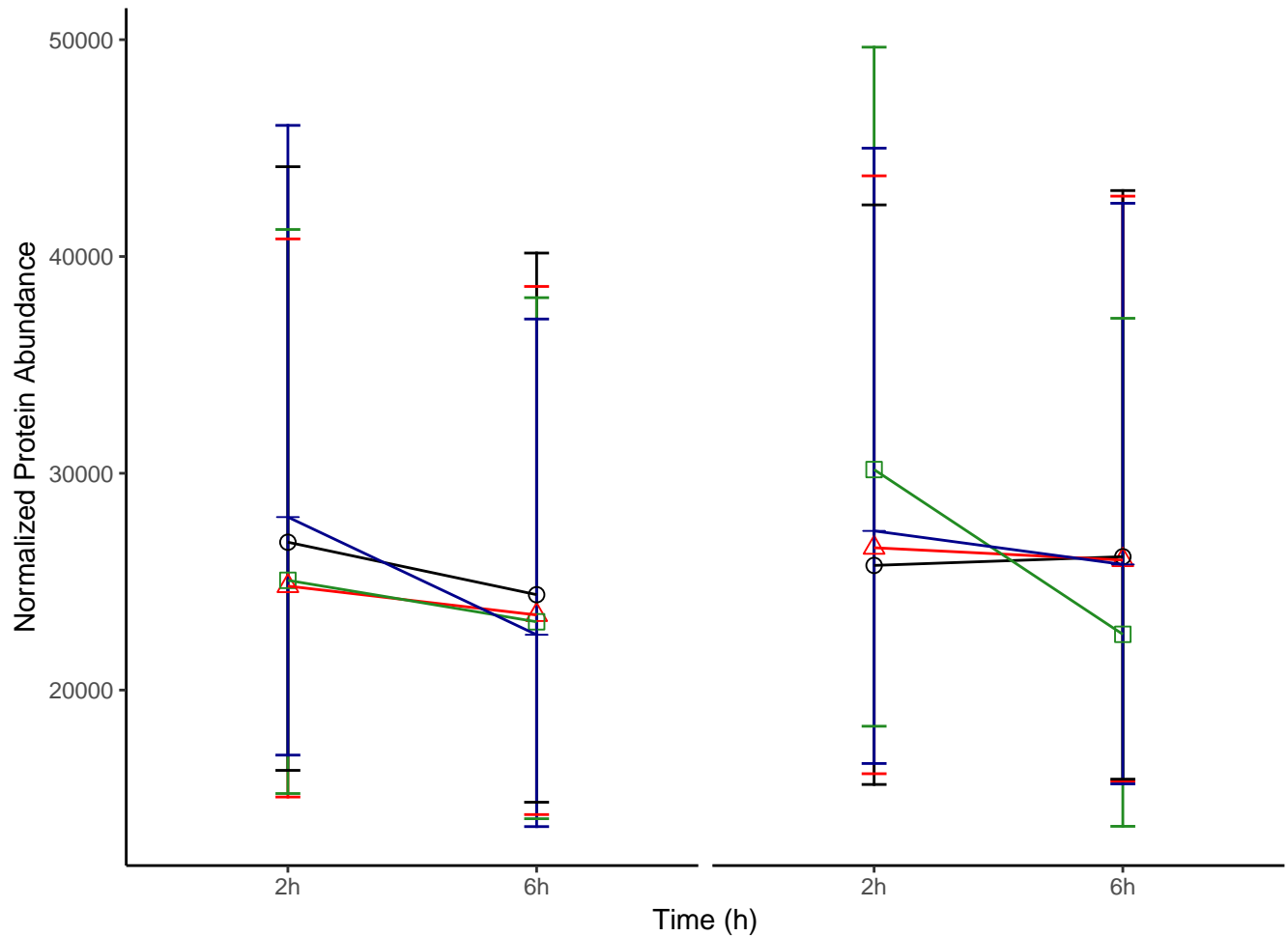


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MURC\_STAAM

TSB

TSB-dex S-218

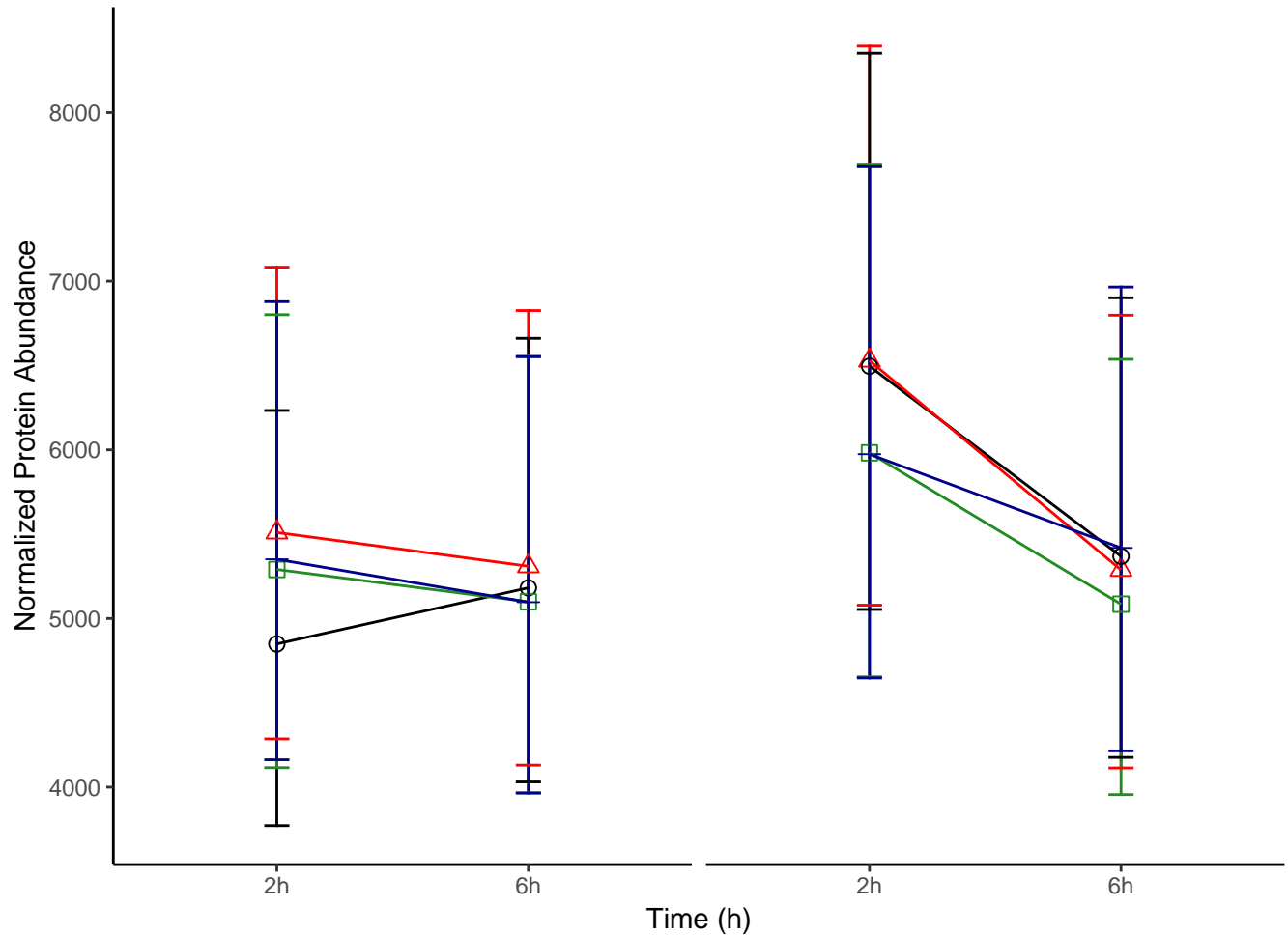


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MURD\_STAAM

TSB

TSB-dex S-219

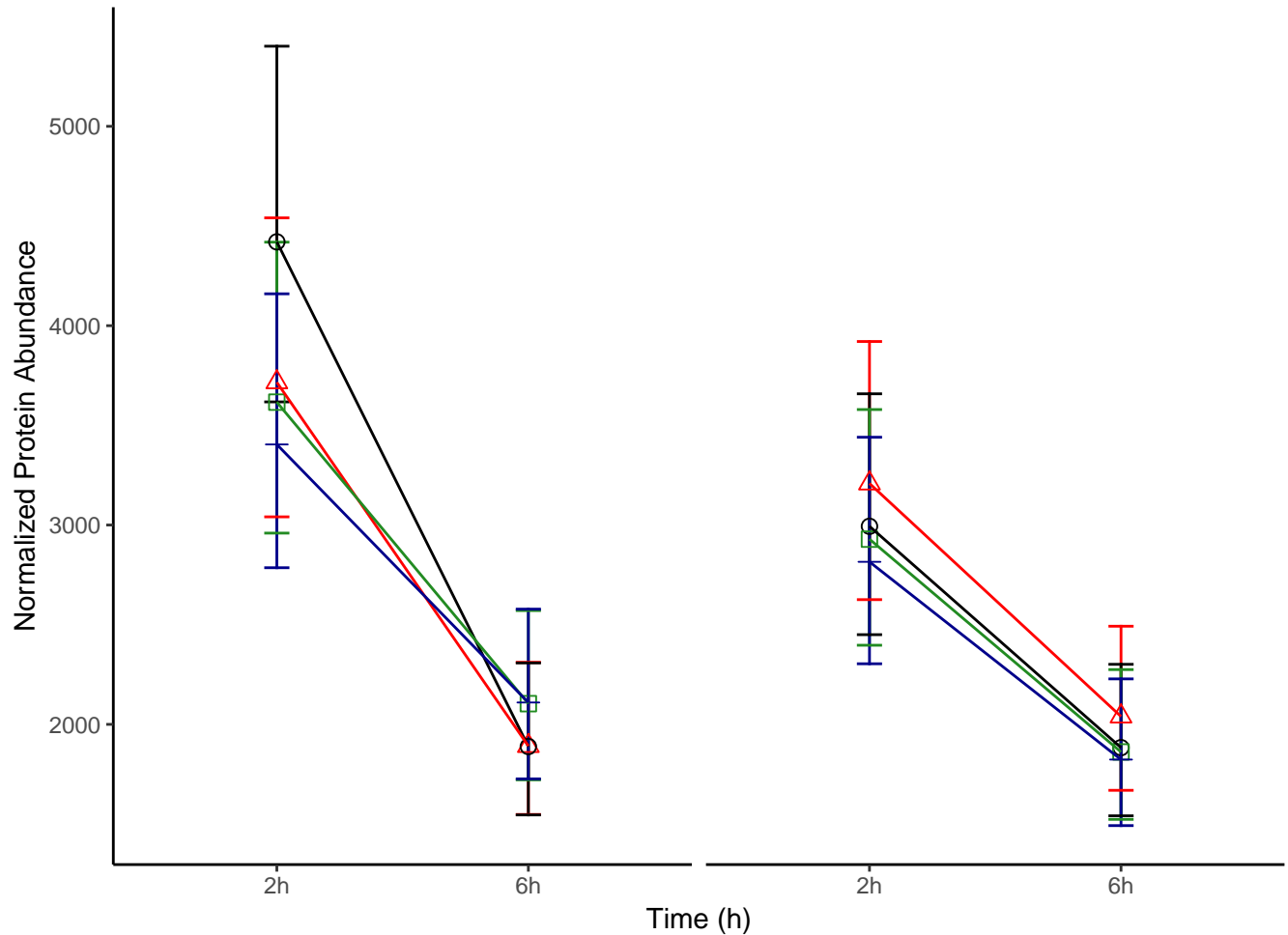


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURE\_STAAM

TSB

TSB-dex S-220

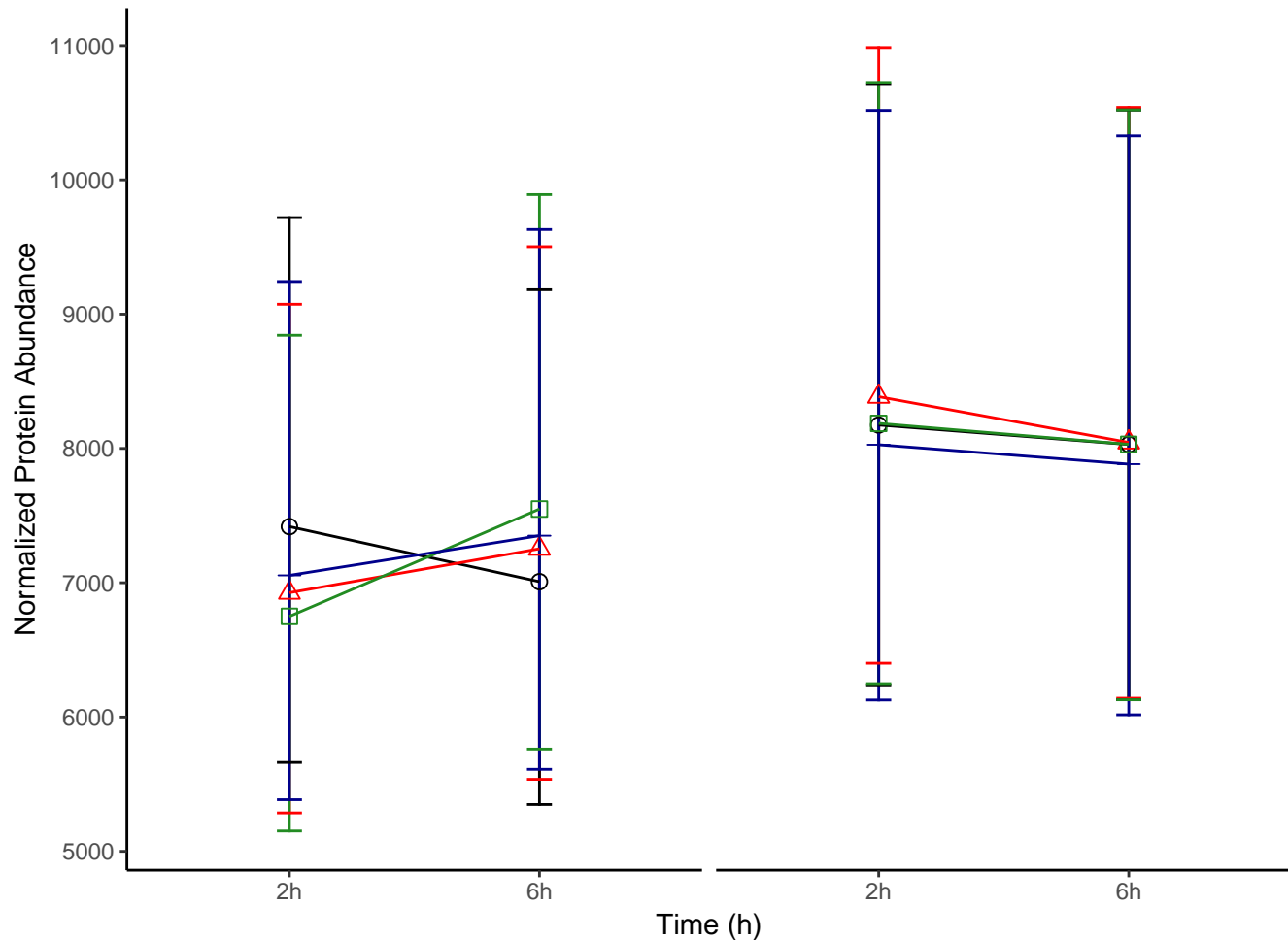


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- +

# MURG\_STAAM

TSB

TSB-dex S-221



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURI\_STAAM

TSB

TSB-dex S-222

Normalized Protein Abundance

20000

10000

2h

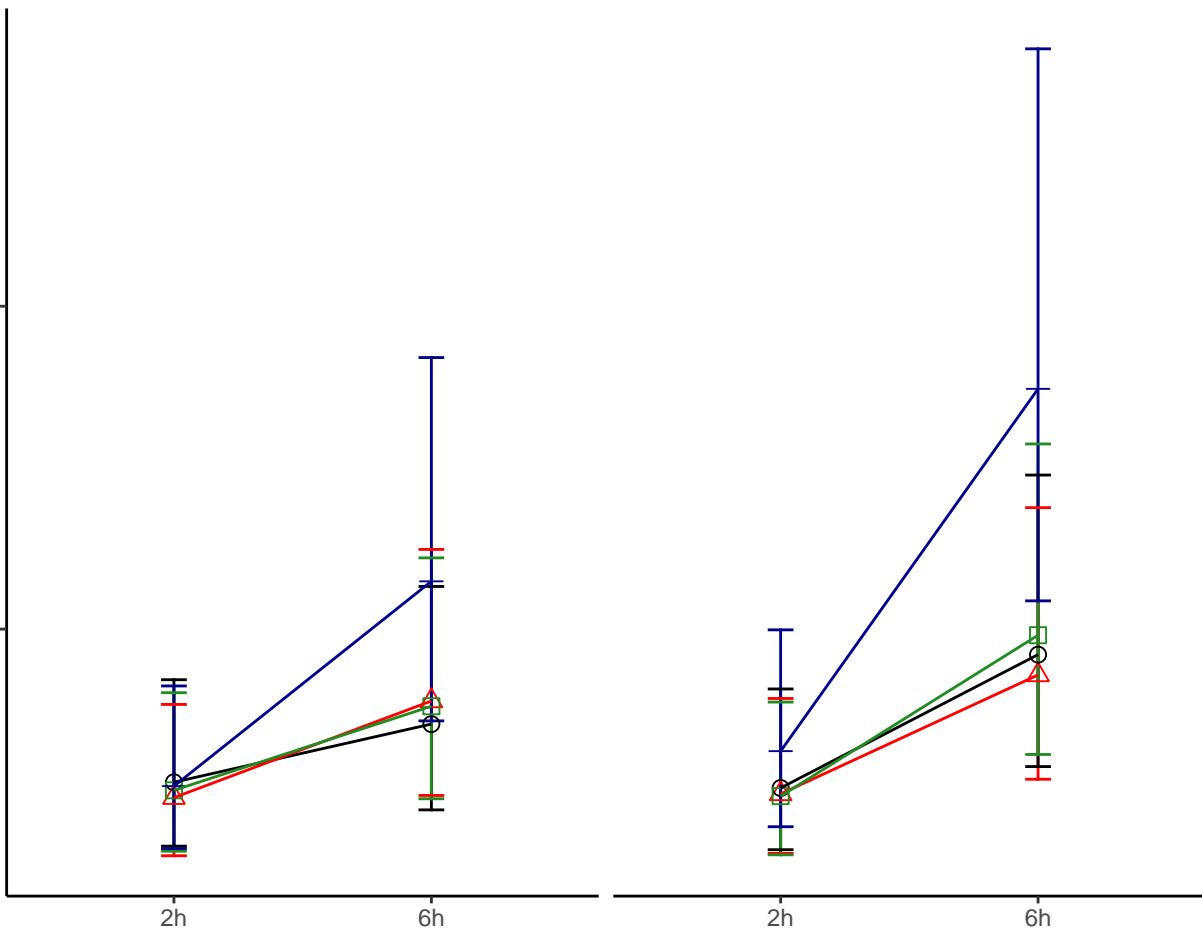
6h

Time (h)

2h

6h

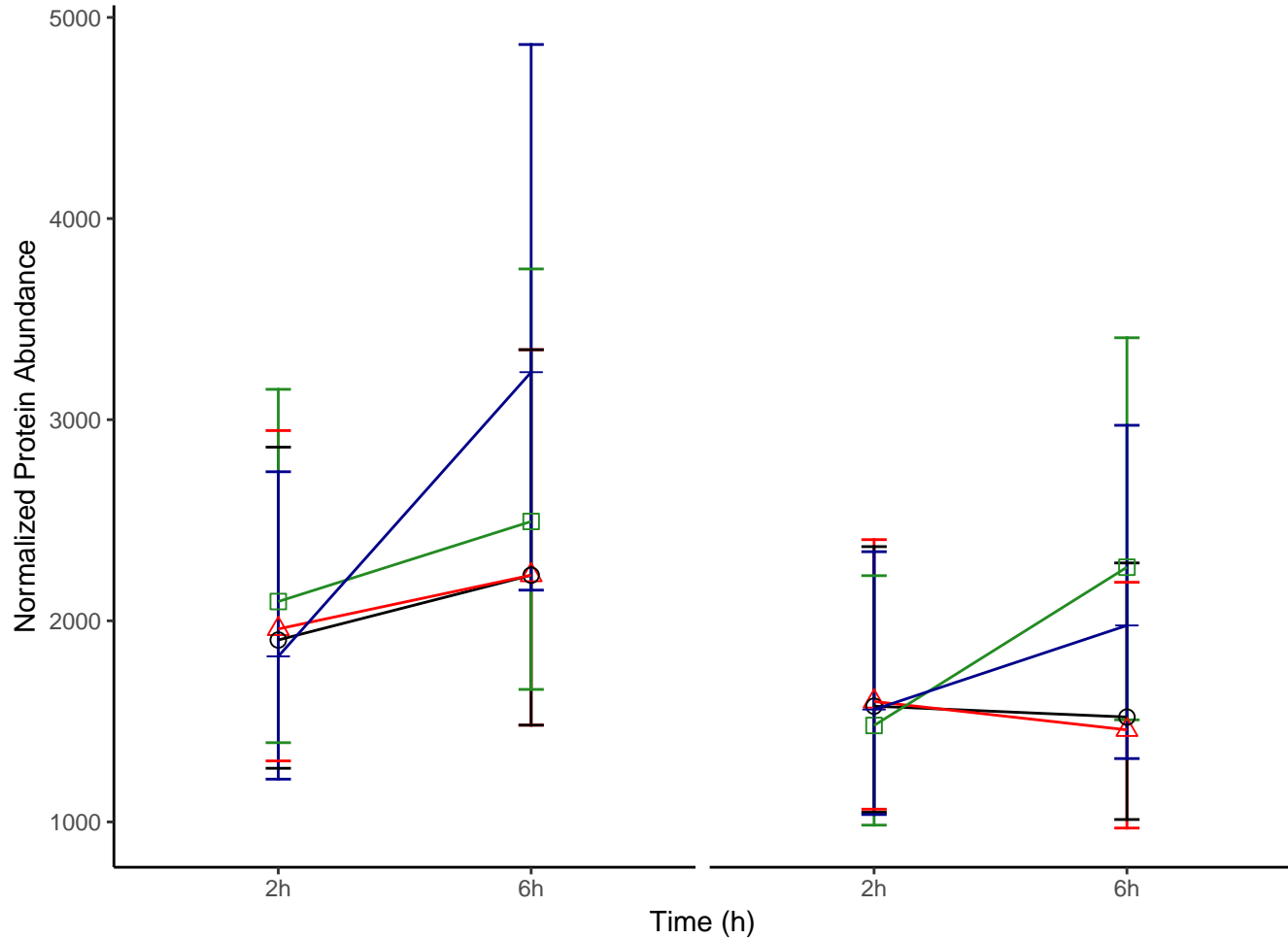
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MUTS\_STAAM

TSB

TSB-dex S-223

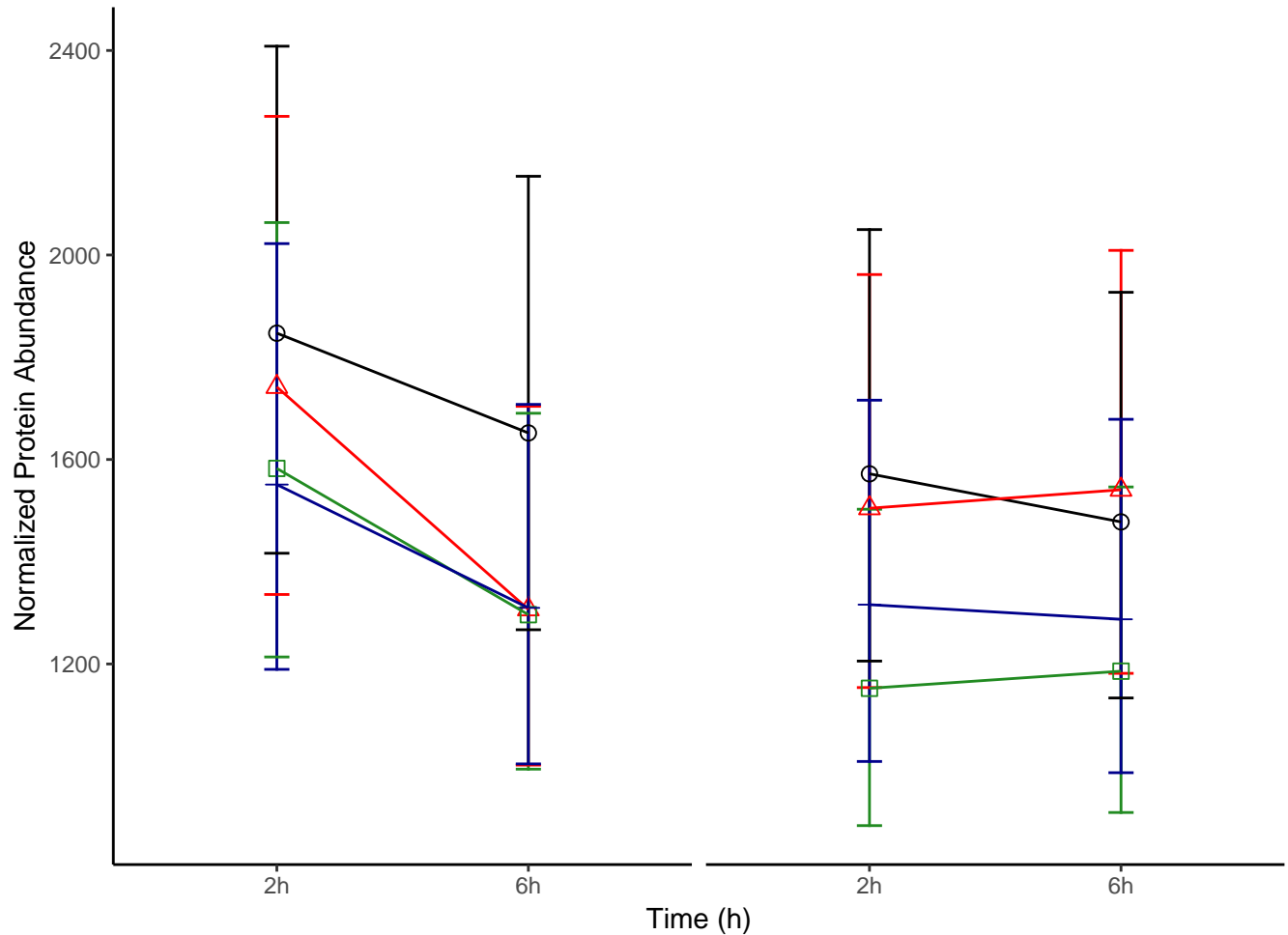


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NADD\_STAAM

TSB

TSB-dex S-224



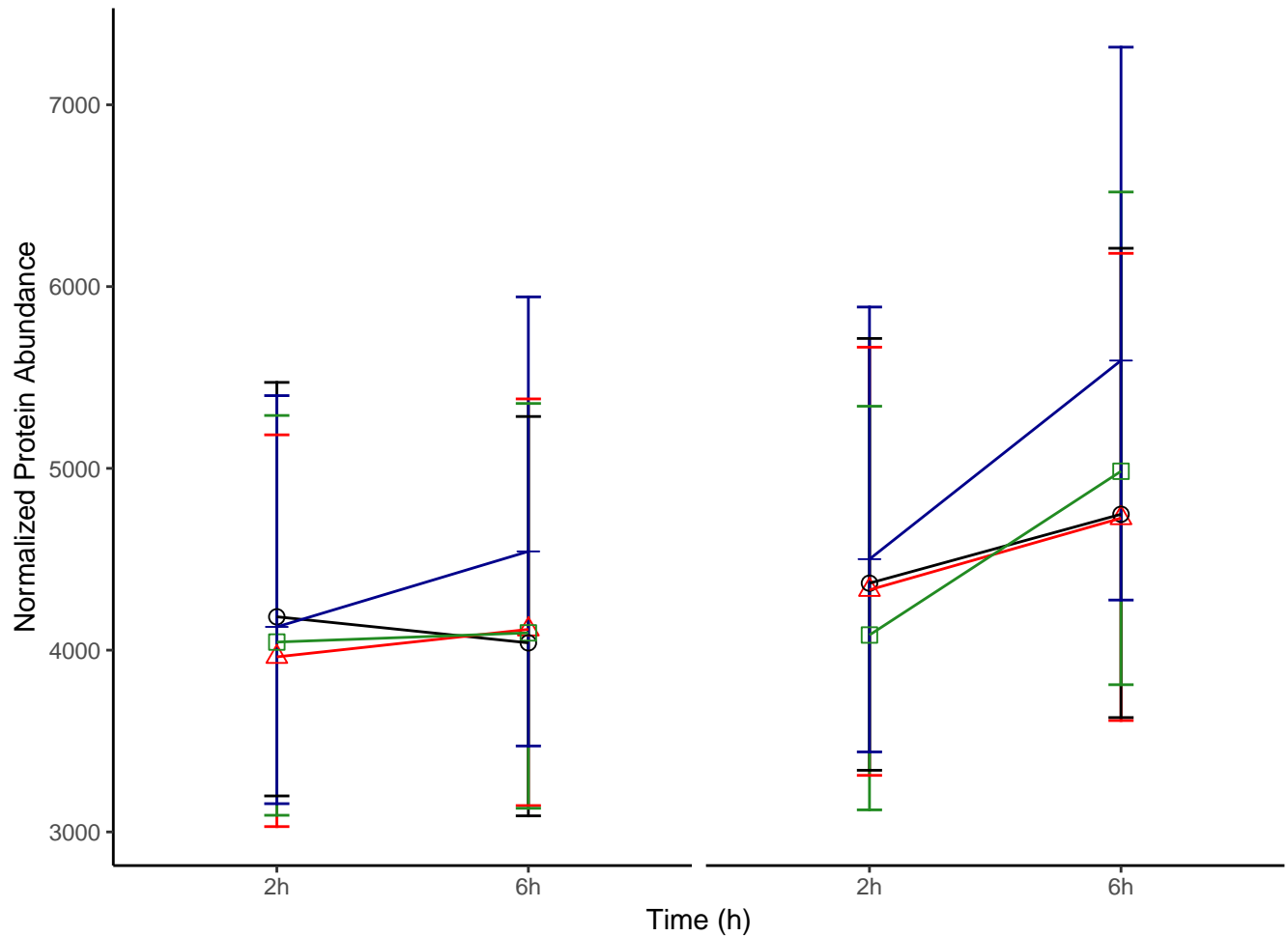
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# NADE\_STAAM

TSB

TSB-dex S-225

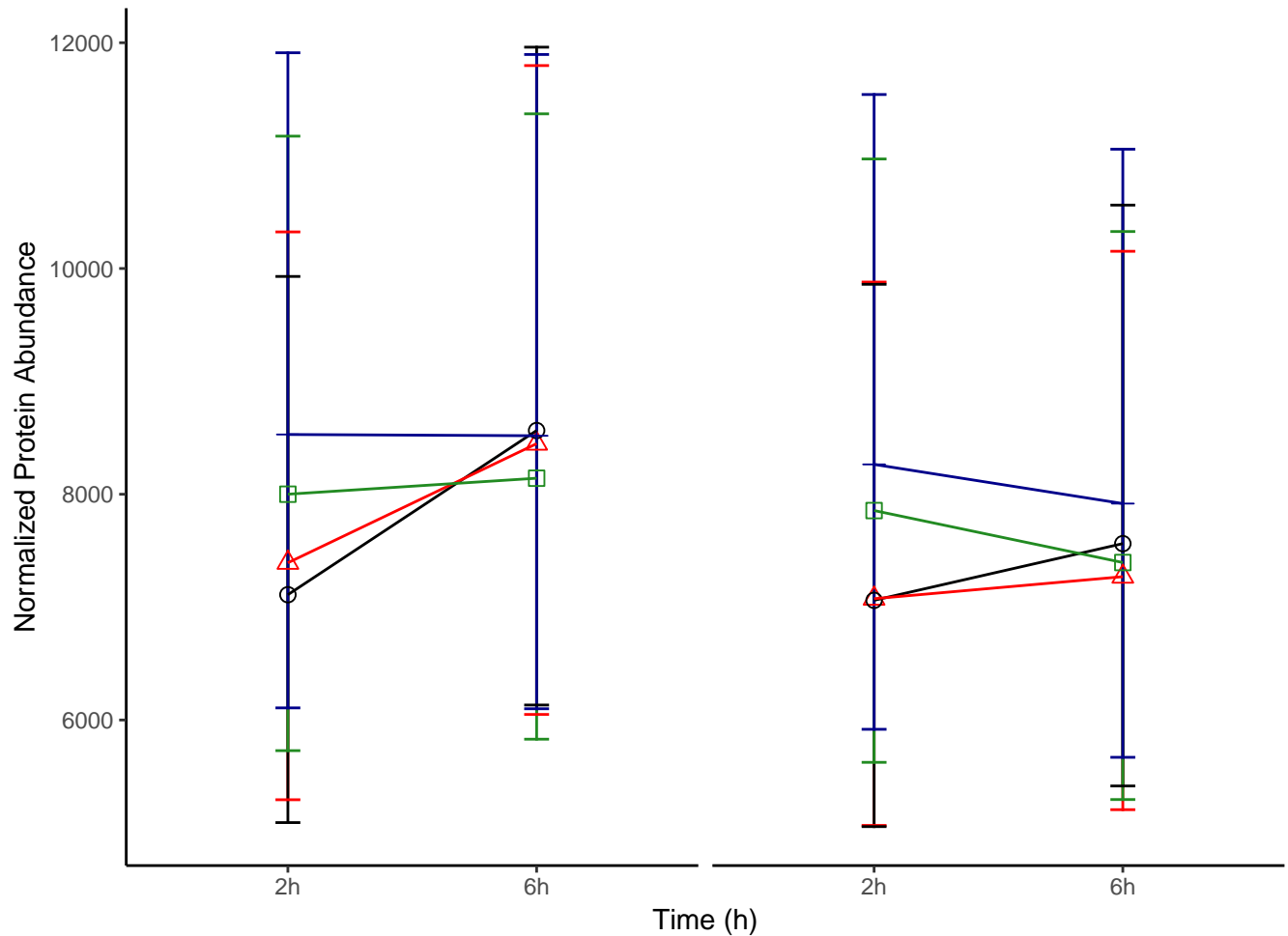


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# NAGD\_STAAM

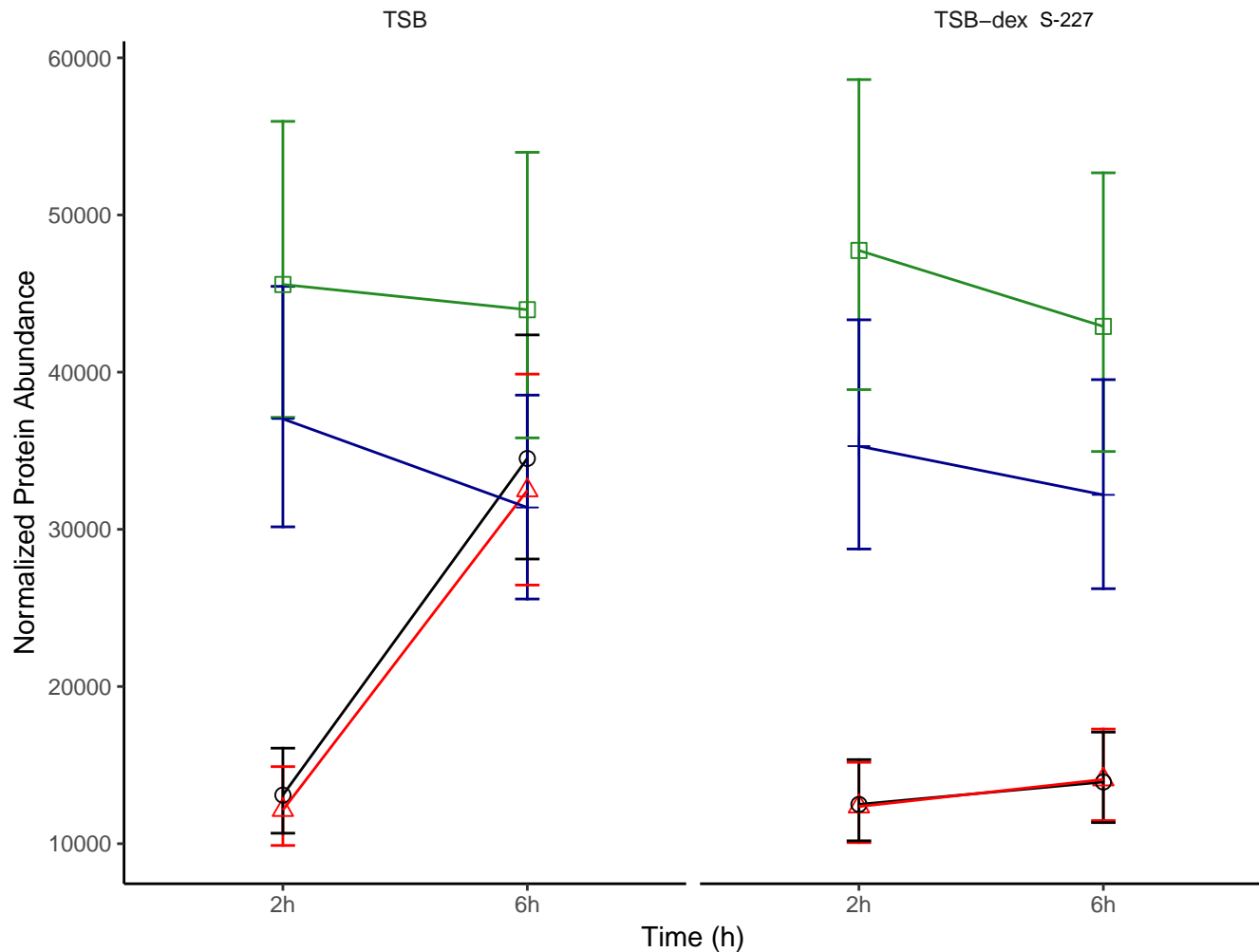
TSB

TSB-dex S-226



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NDK\_STAAM

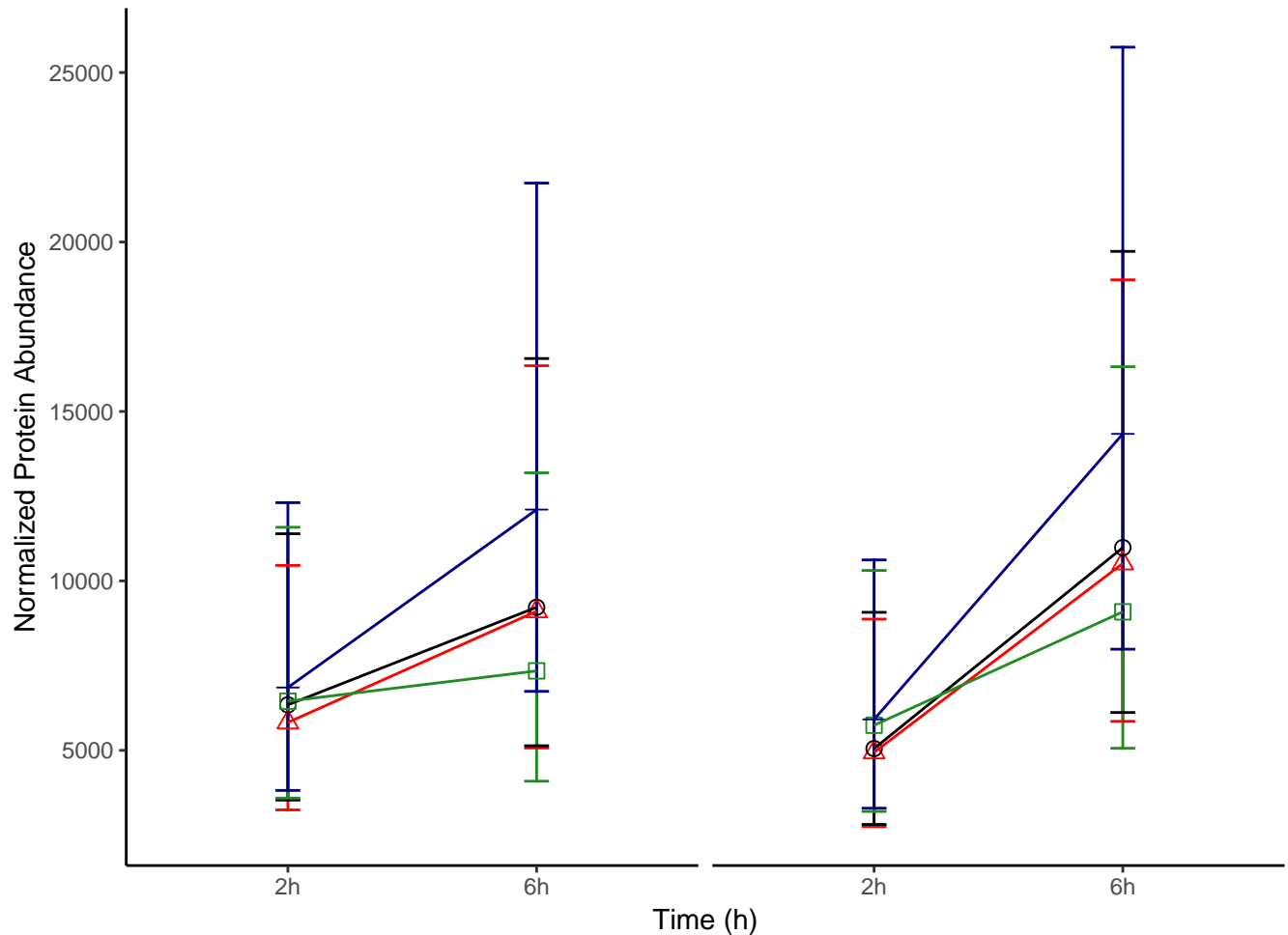


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NRDR\_STAAM

TSB

TSB-dex S-228

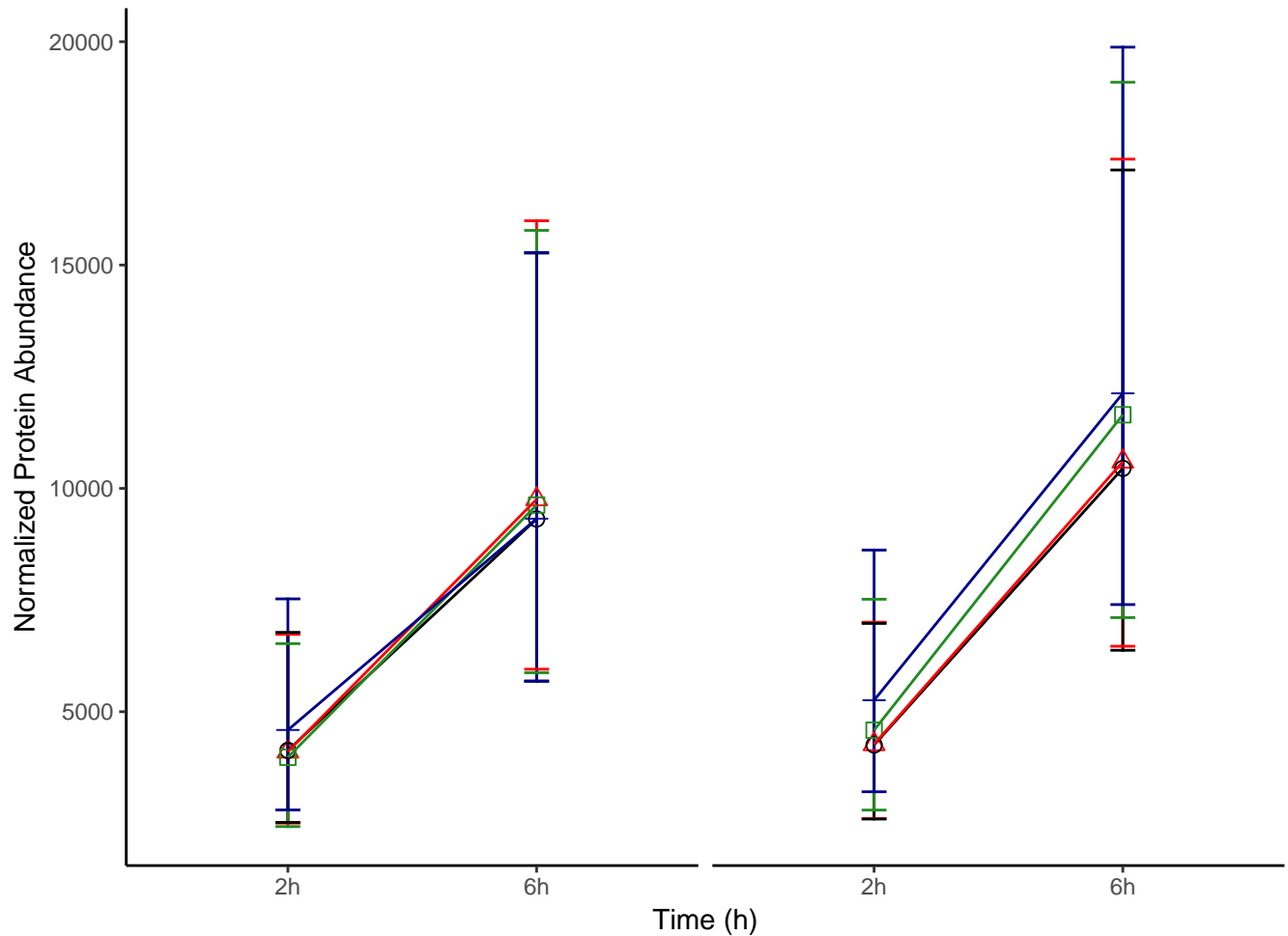


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NREB\_STAAM

TSB

TSB-dex S-229

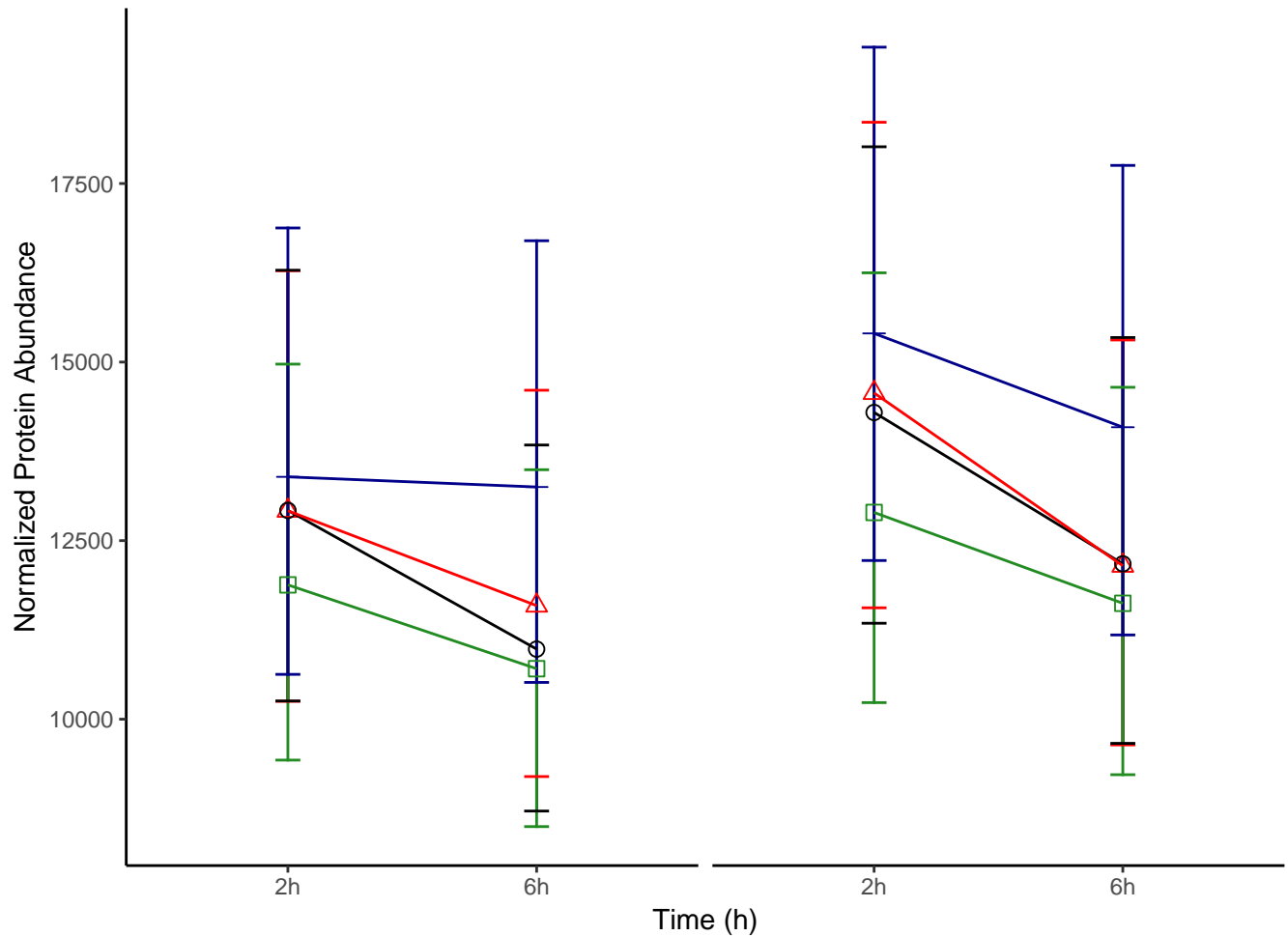


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NUSG\_STAAM

TSB

TSB-dex S-230

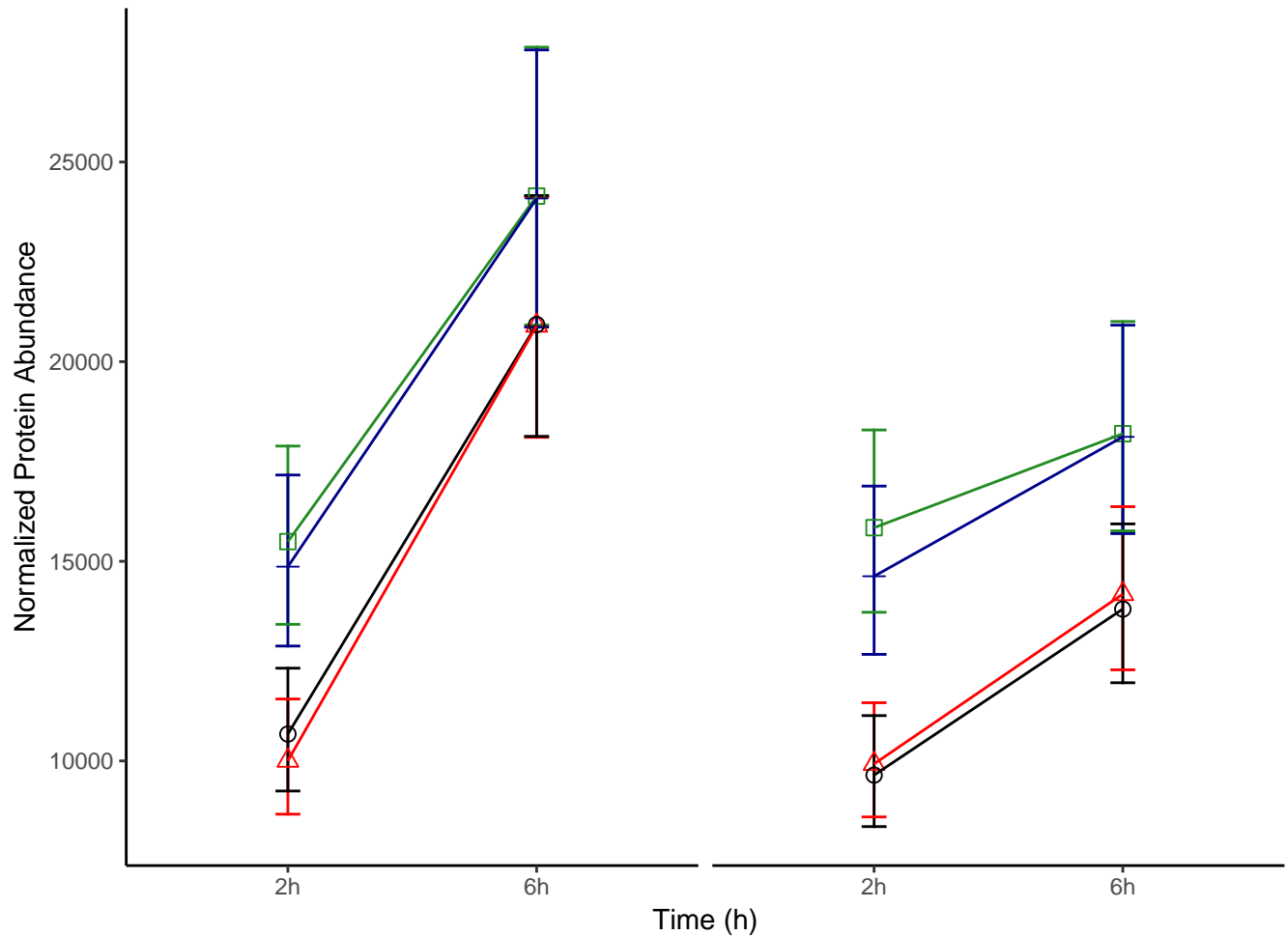


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# OAT2\_STAAM

TSB

TSB-dex S-231

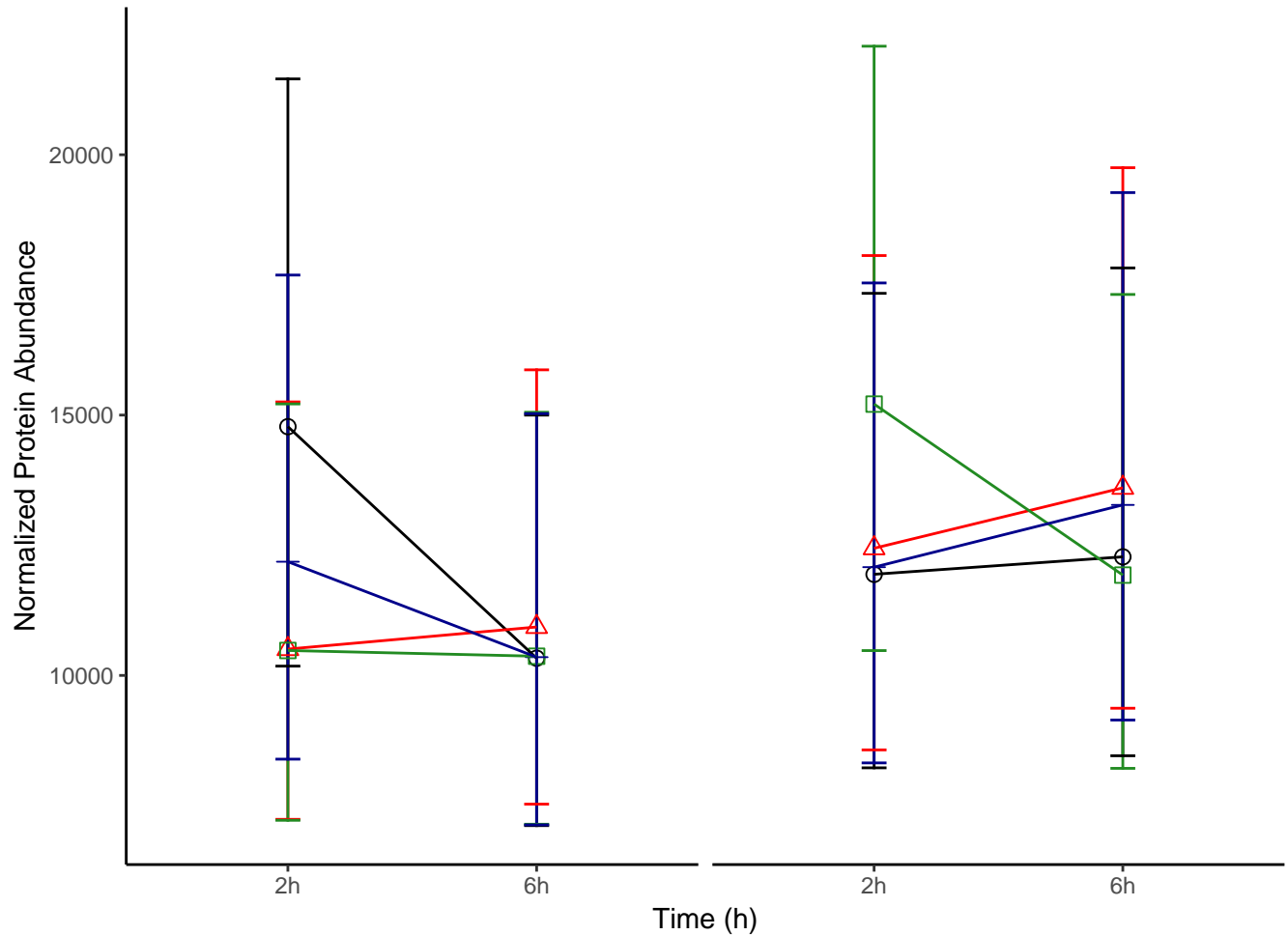


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OBG\_STAAM

TSB

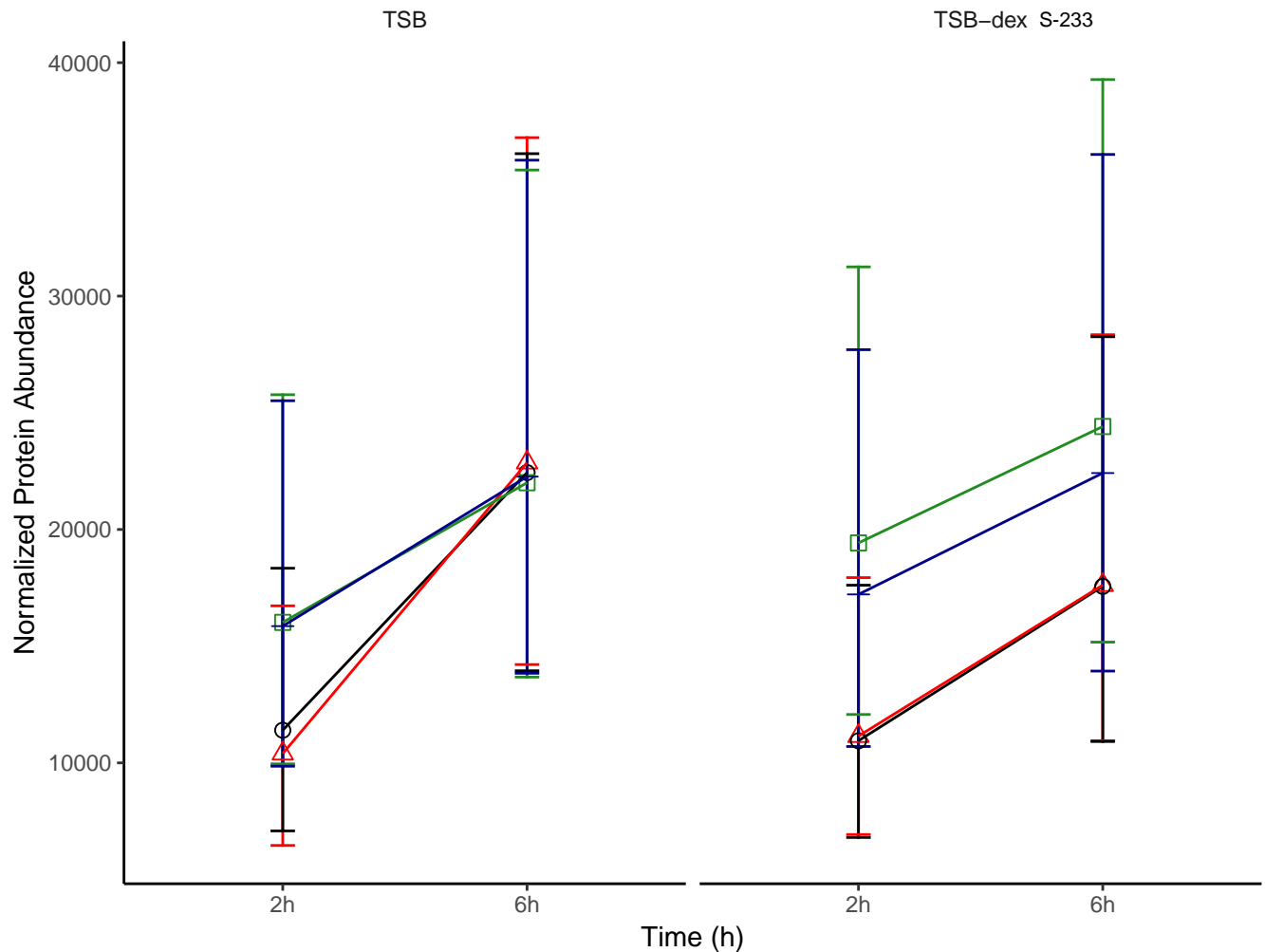
TSB-dex S-232



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ODO1\_STAAM

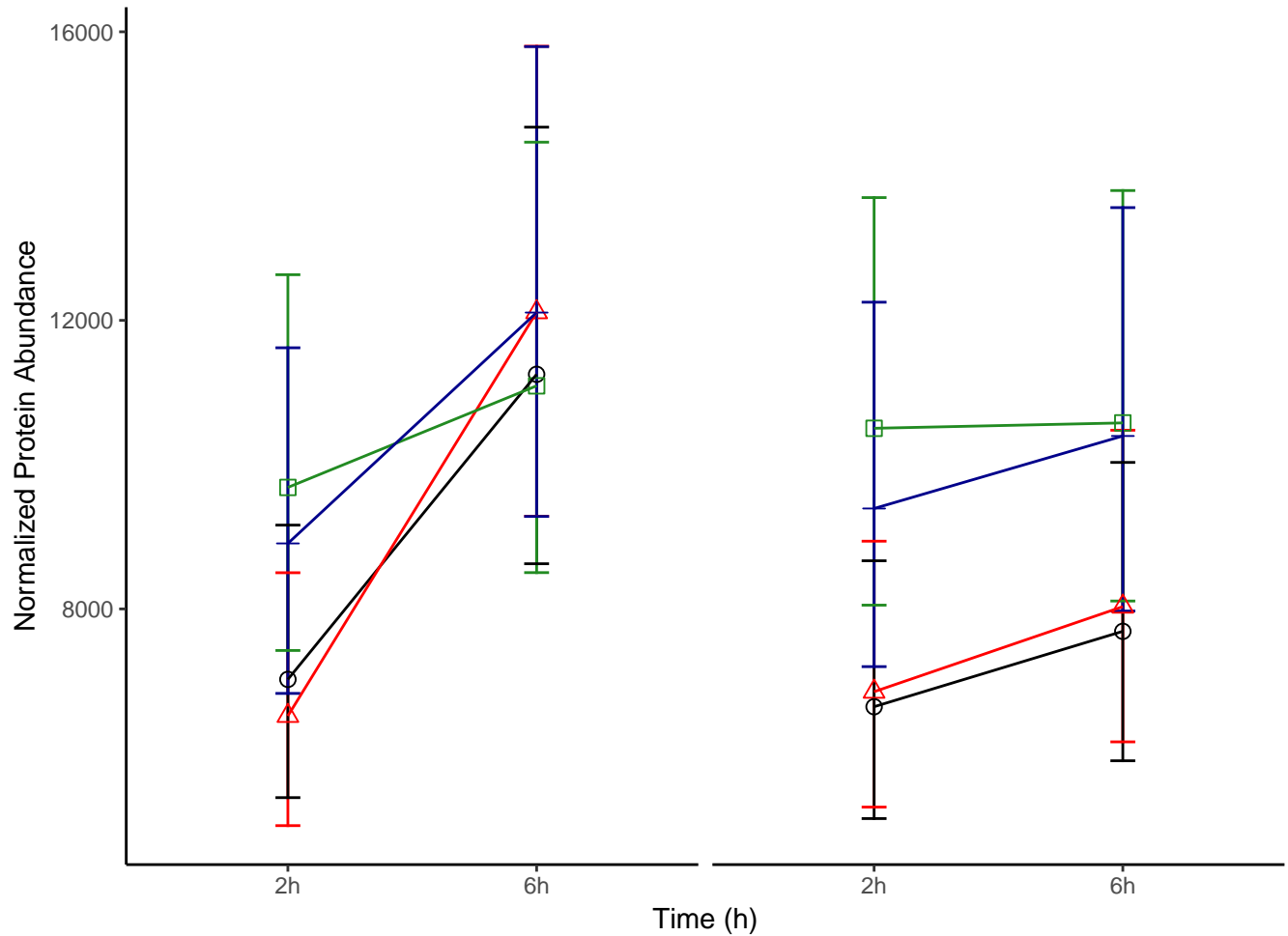


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODO2\_STAAM

TSB

TSB-dex S-234

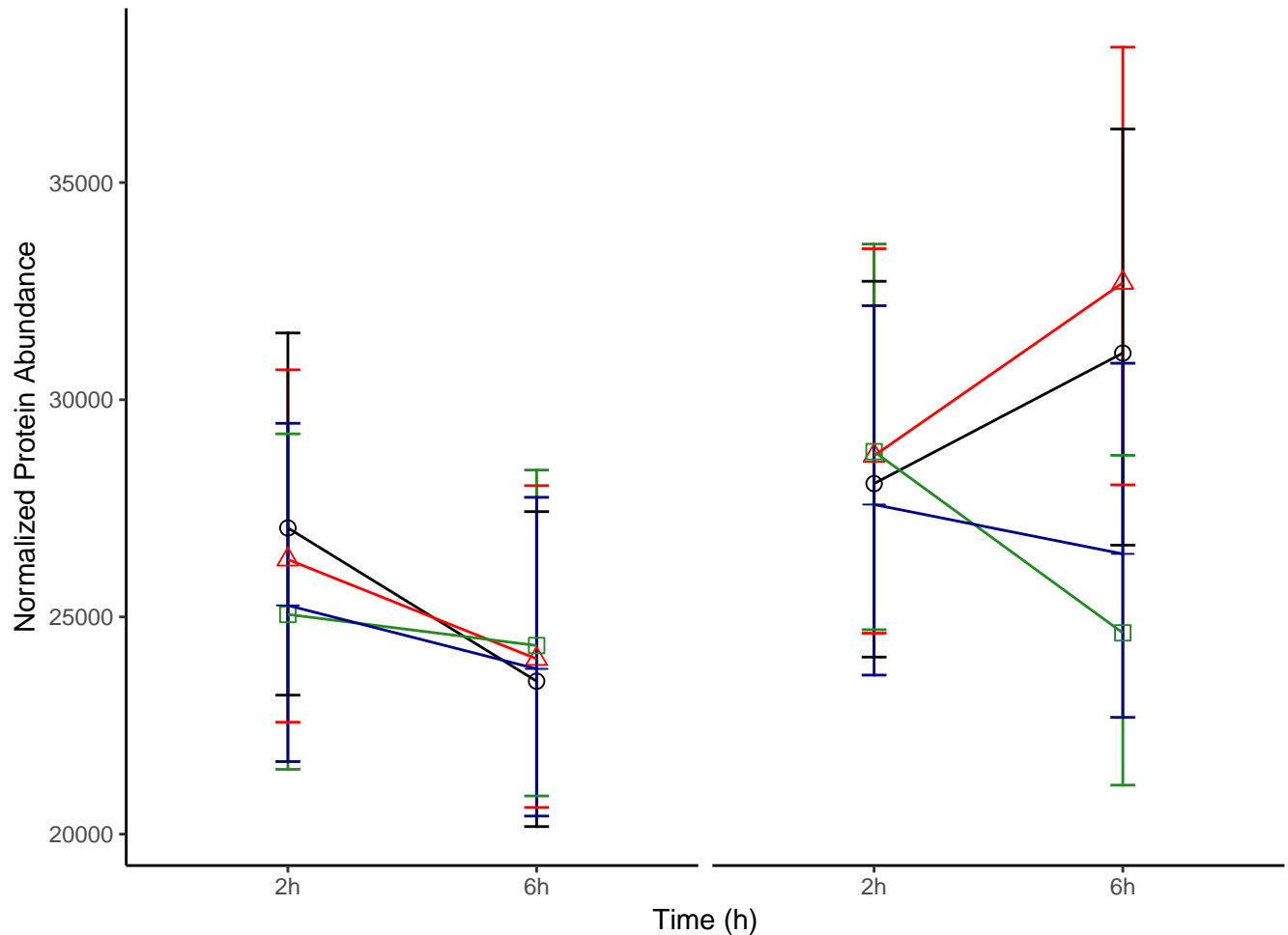


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# ODP2\_STAAM

TSB

TSB-dex S-235

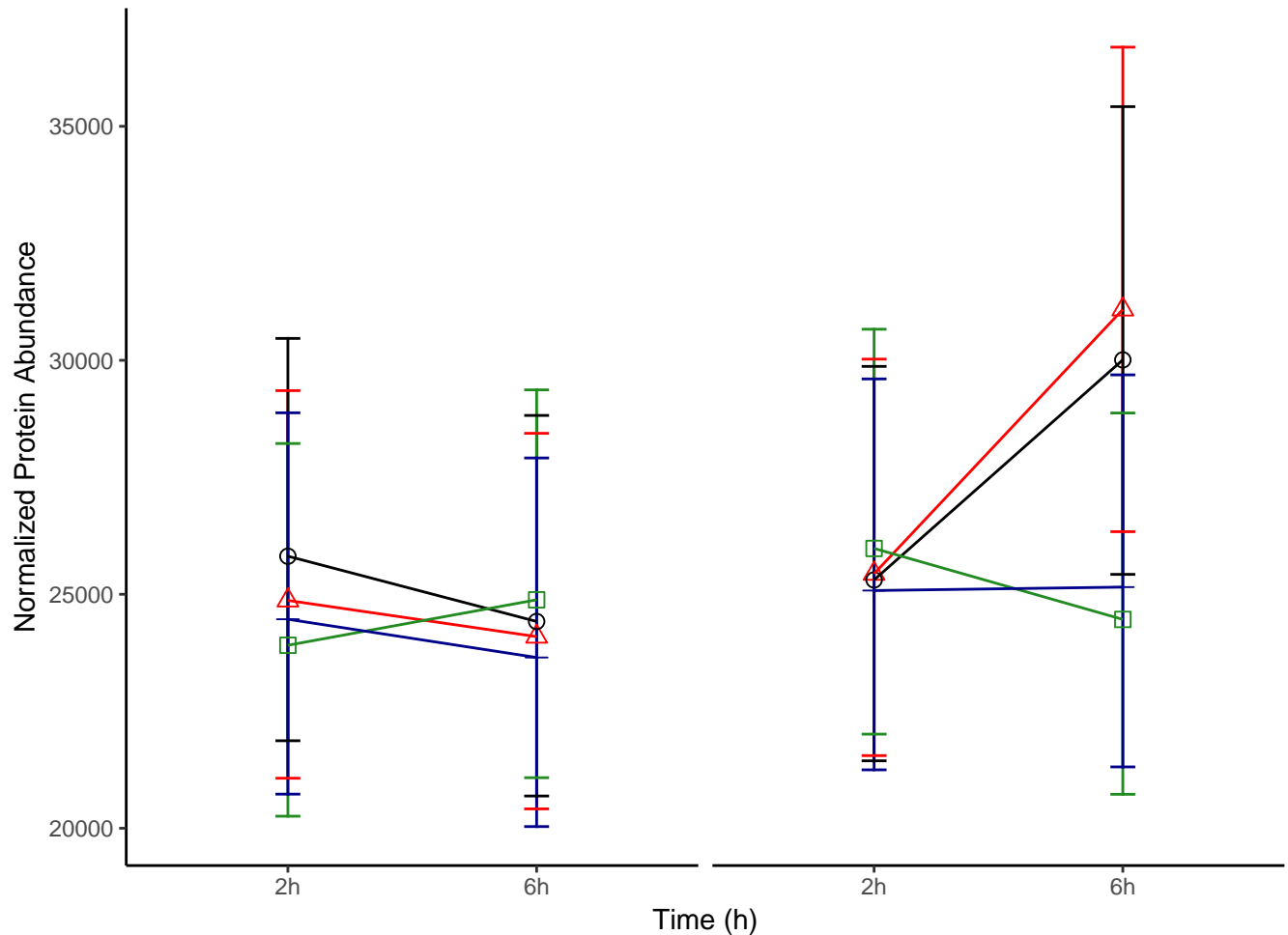


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODPA\_STAAM

TSB

TSB-dex S-236

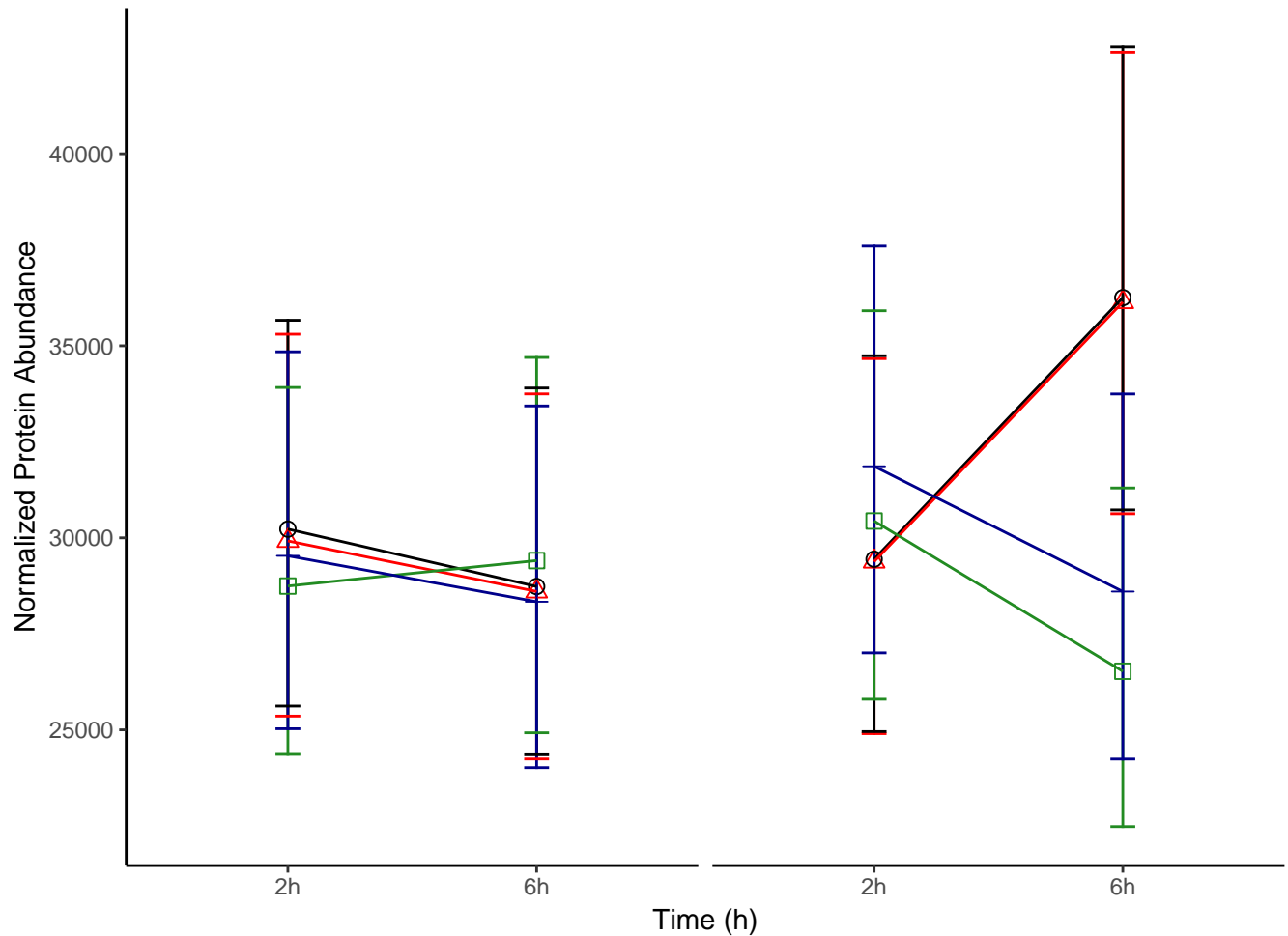


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ODPB\_STAAM

TSB

TSB-dex S-237

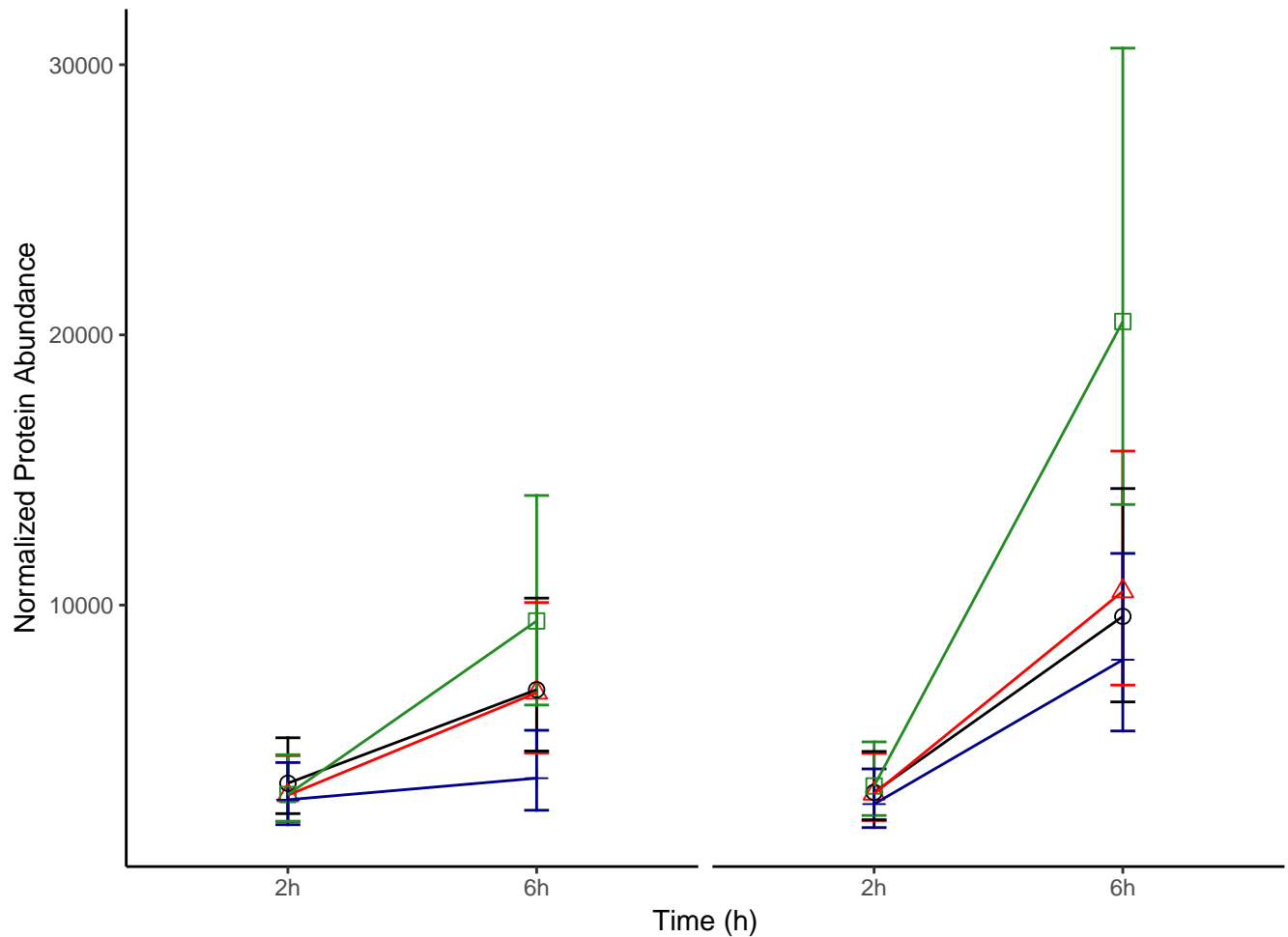


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# OHRL\_STAAM

TSB

TSB-dex S-238

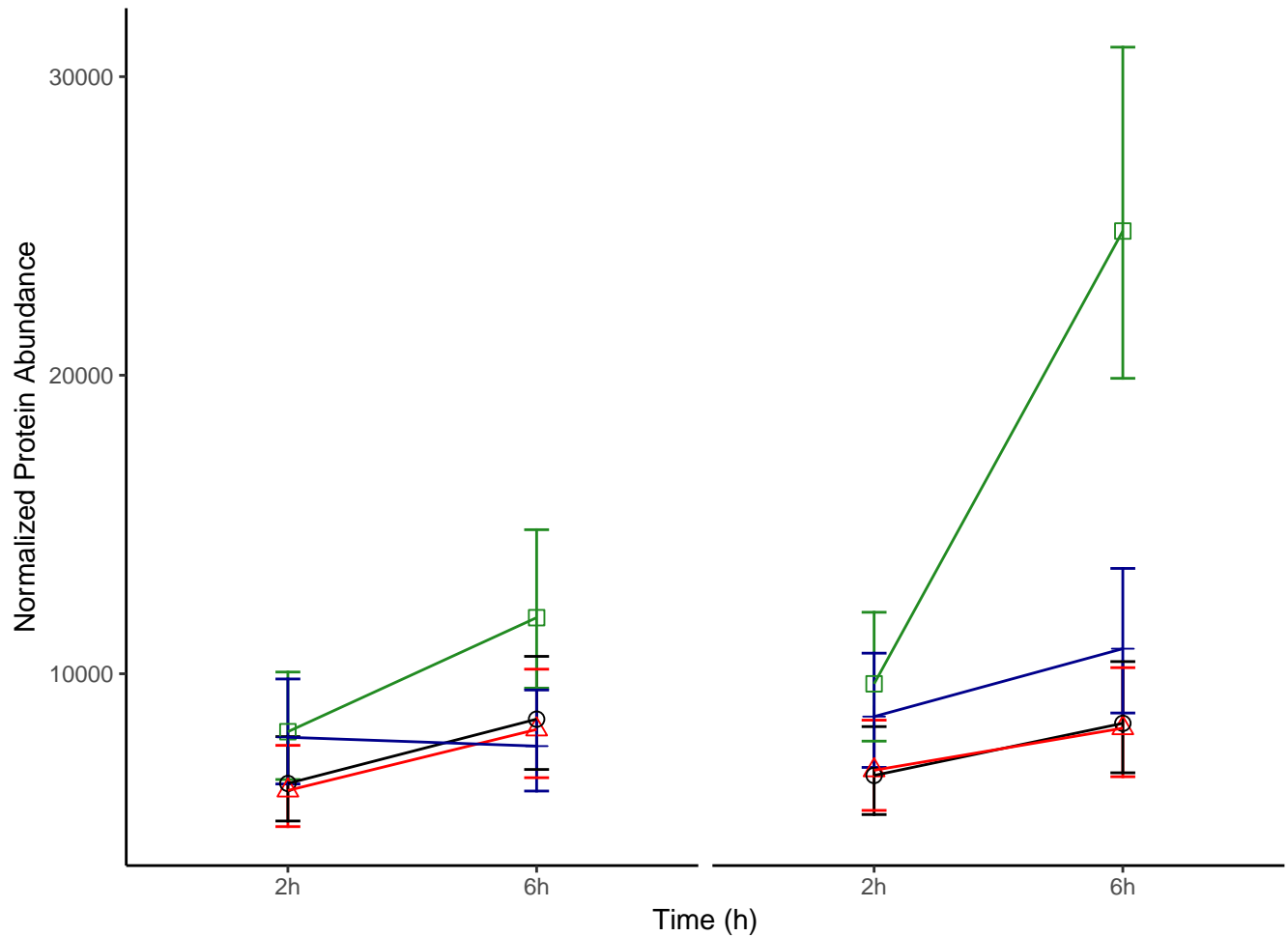


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# OTC\_STAAM

TSB

TSB-dex S-239

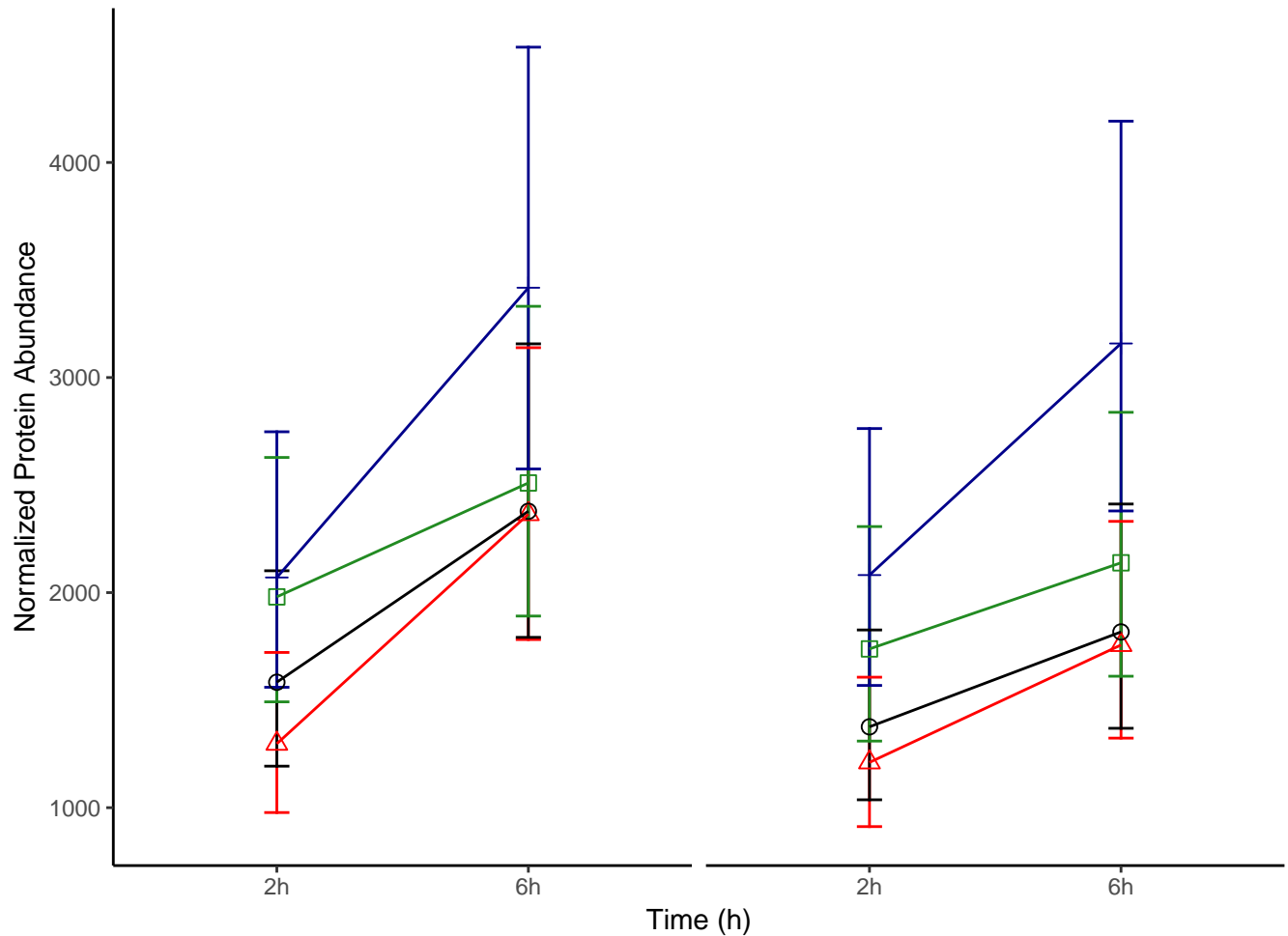


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# OTCC\_STAAM

TSB

TSB-dex S-240



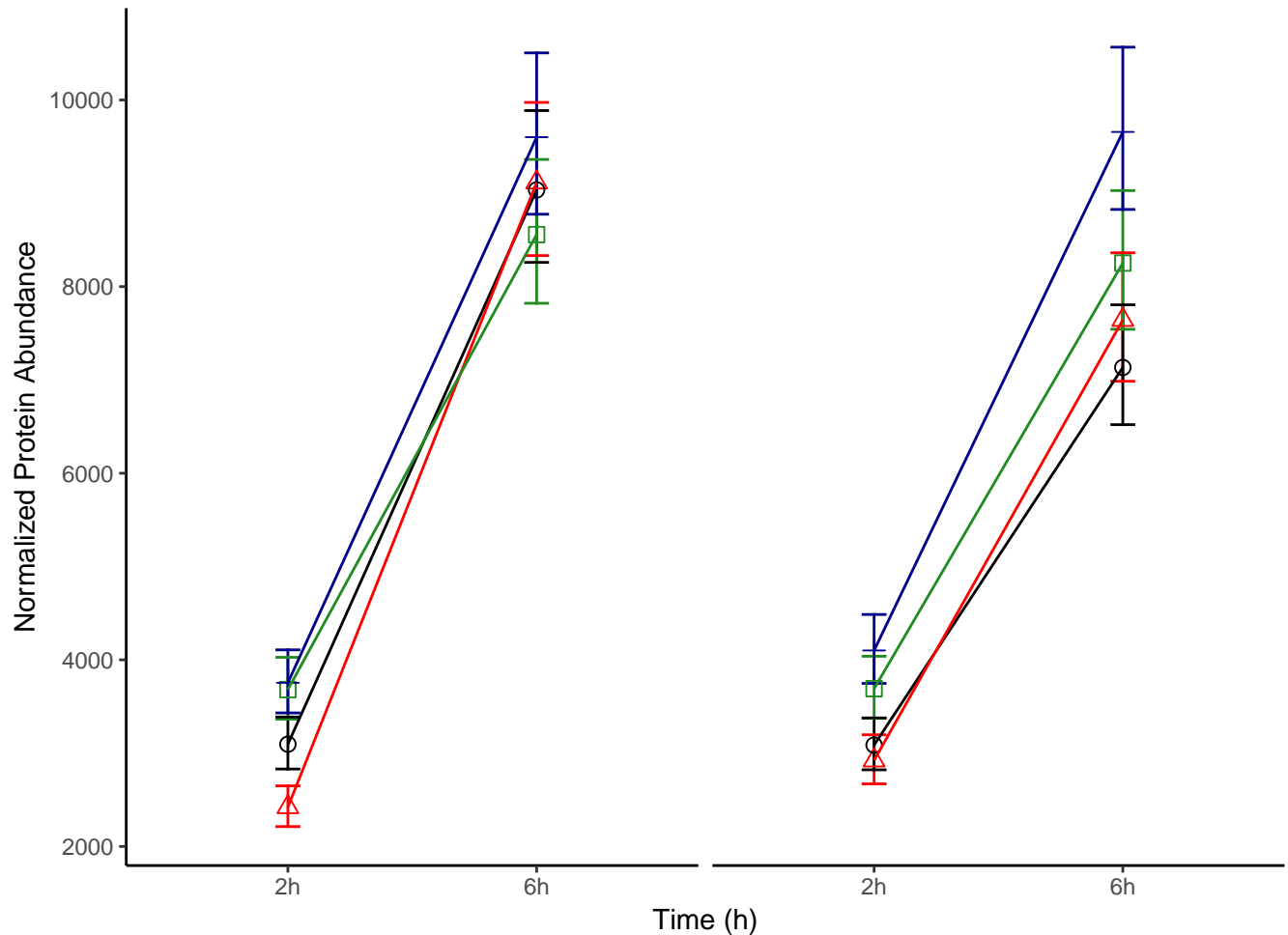
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# P5CR\_STAAM

TSB

TSB-dex S-241

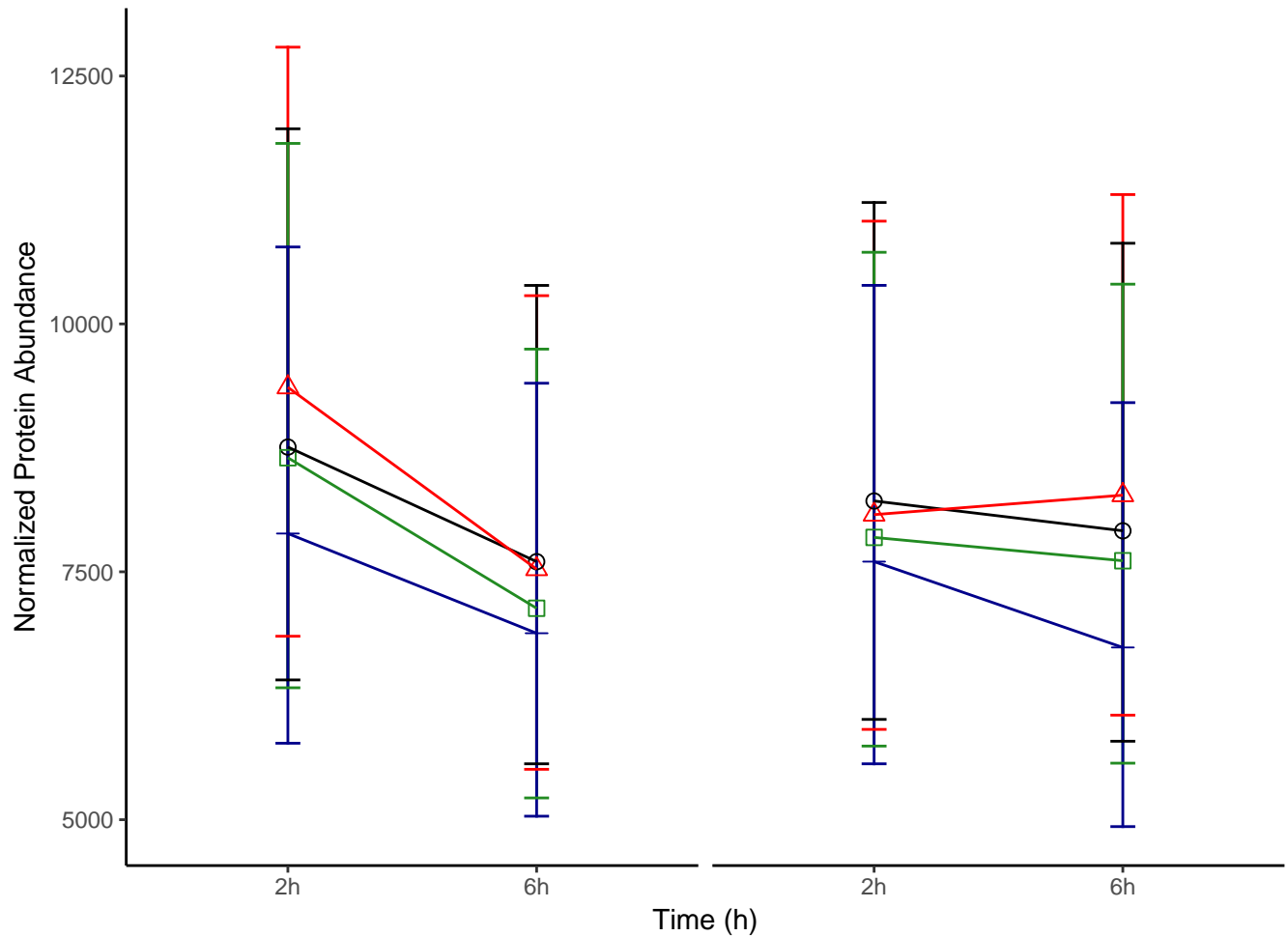


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PANB\_STAAM

TSB

TSB-dex S-242

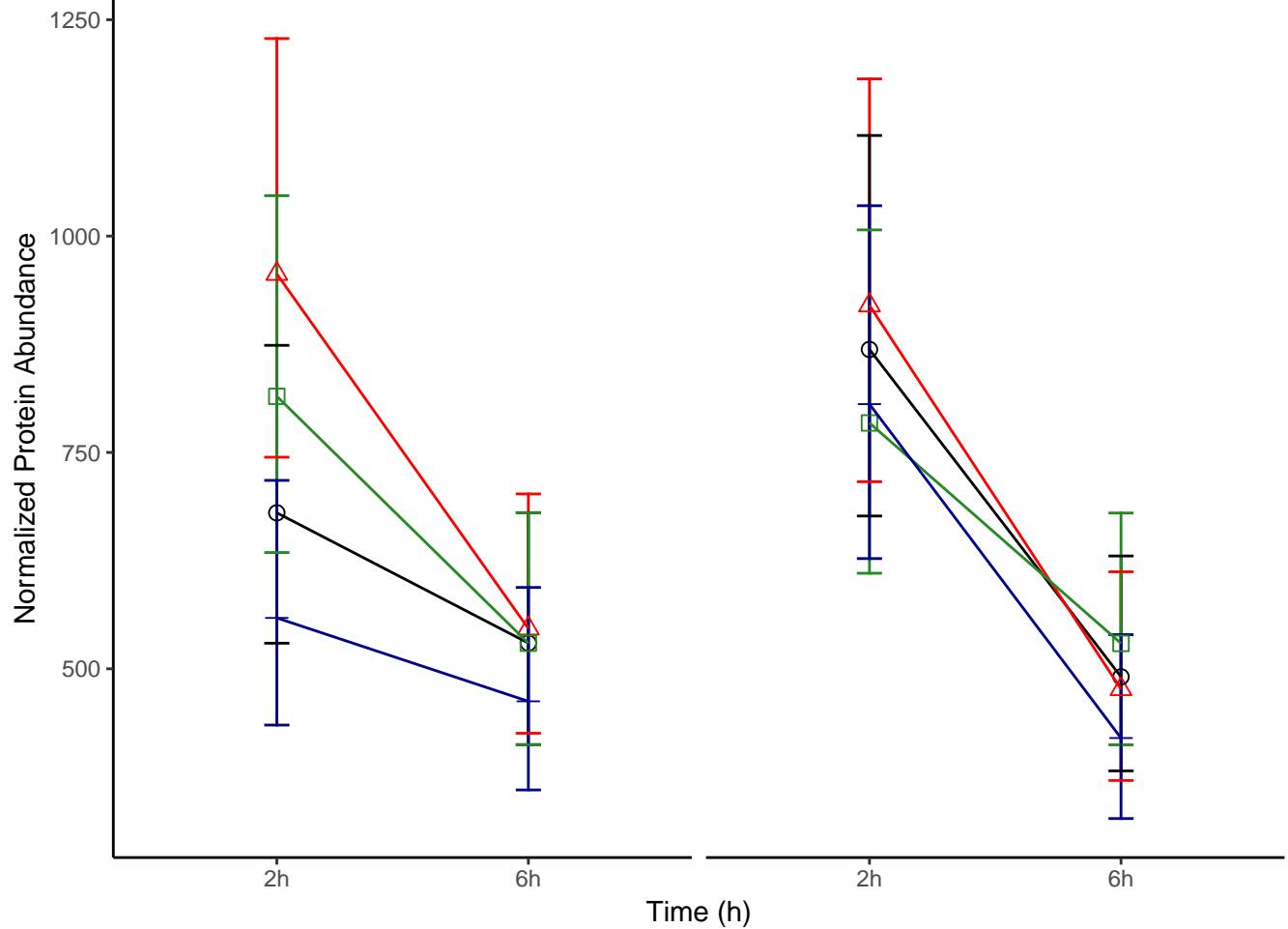


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PAND\_STAAM

TSB

TSB-dex S-243

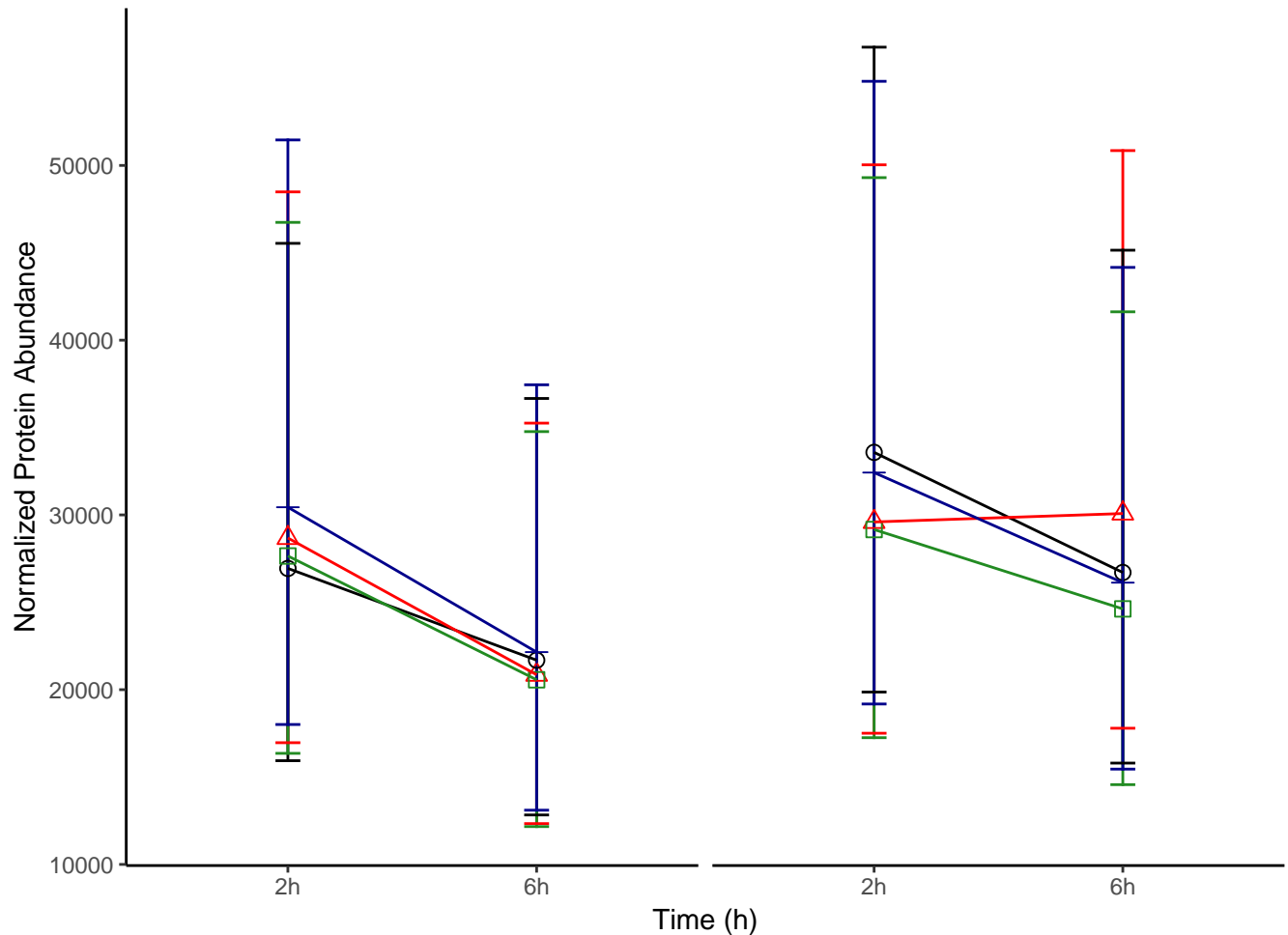


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PARC\_STAAM

TSB

TSB-dex S-244



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PCKA\_STAAM

TSB

TSB-dex S-245

Normalized Protein Abundance

15000

10000

2h

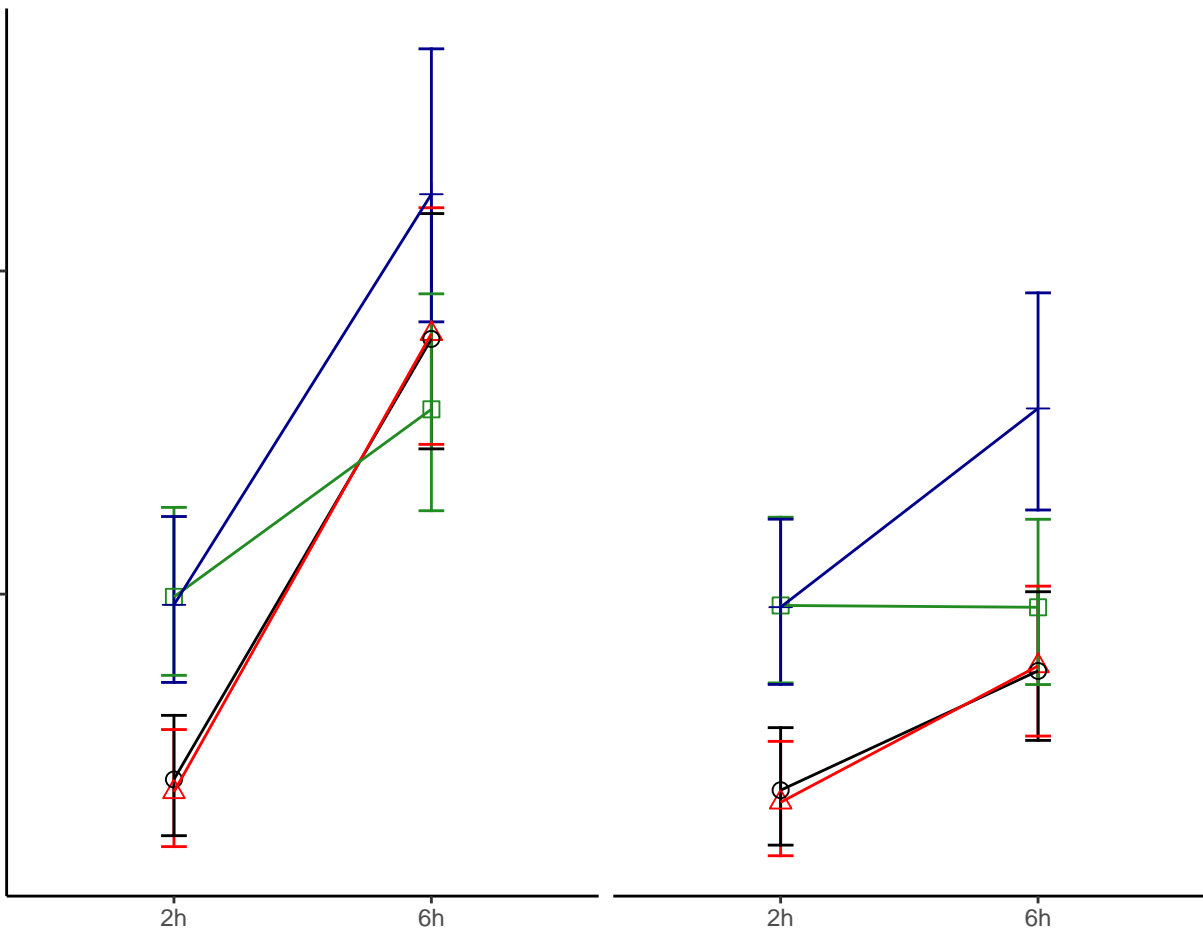
6h

Time (h)

2h

6h

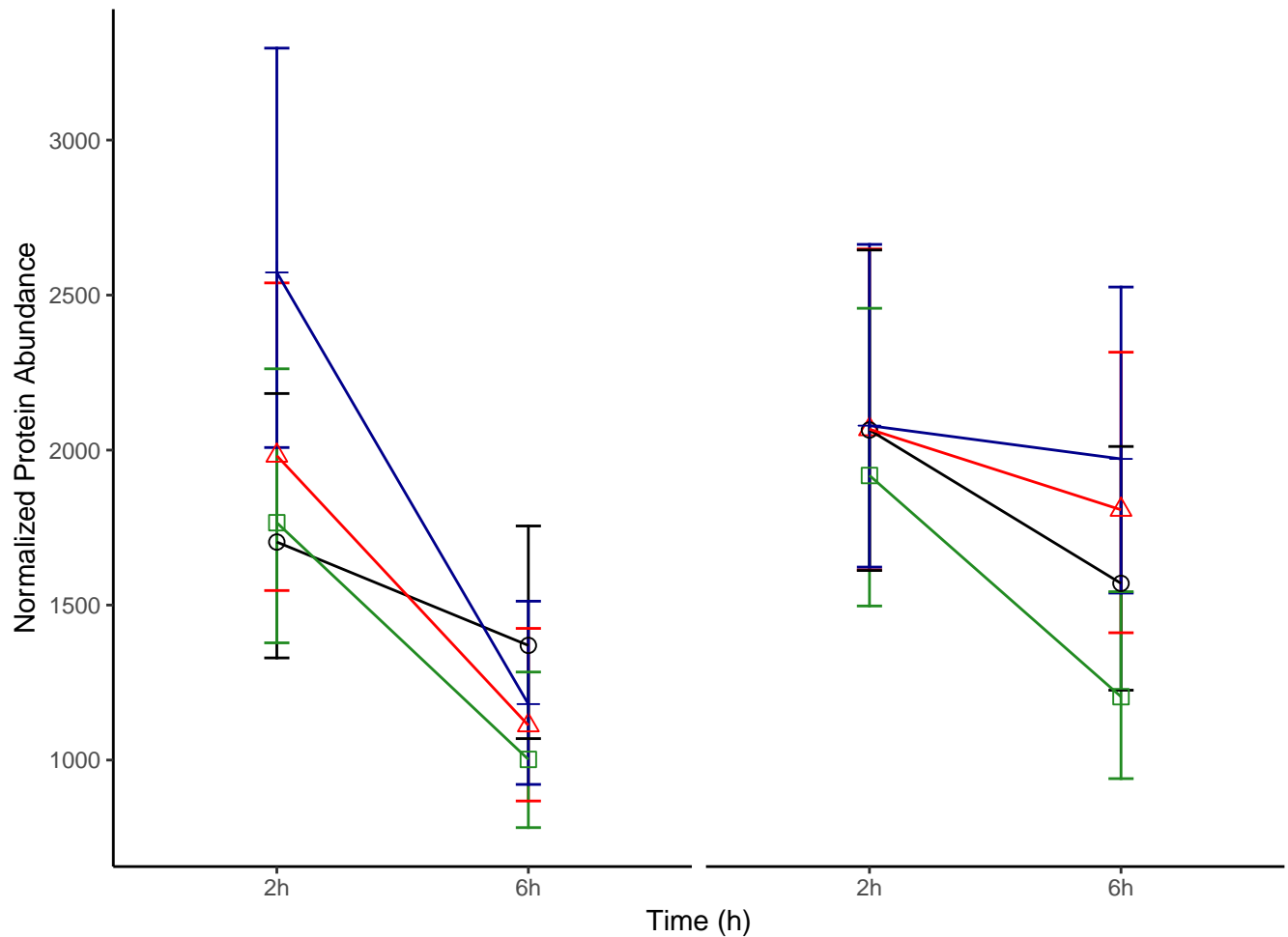
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PCRA\_STAAM

TSB

TSB-dex S-246

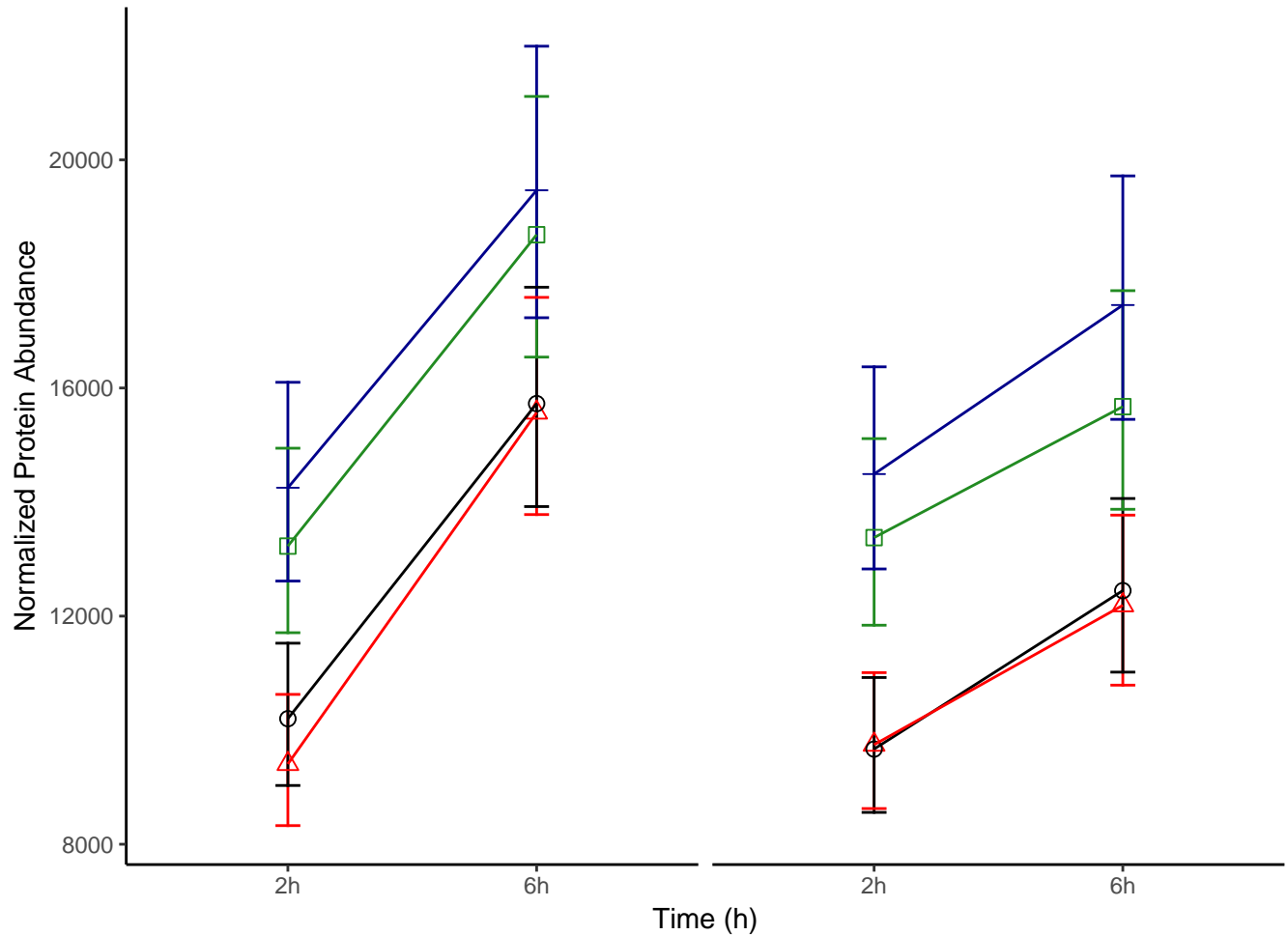


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PDP\_STAAM

TSB

TSB-dex S-247

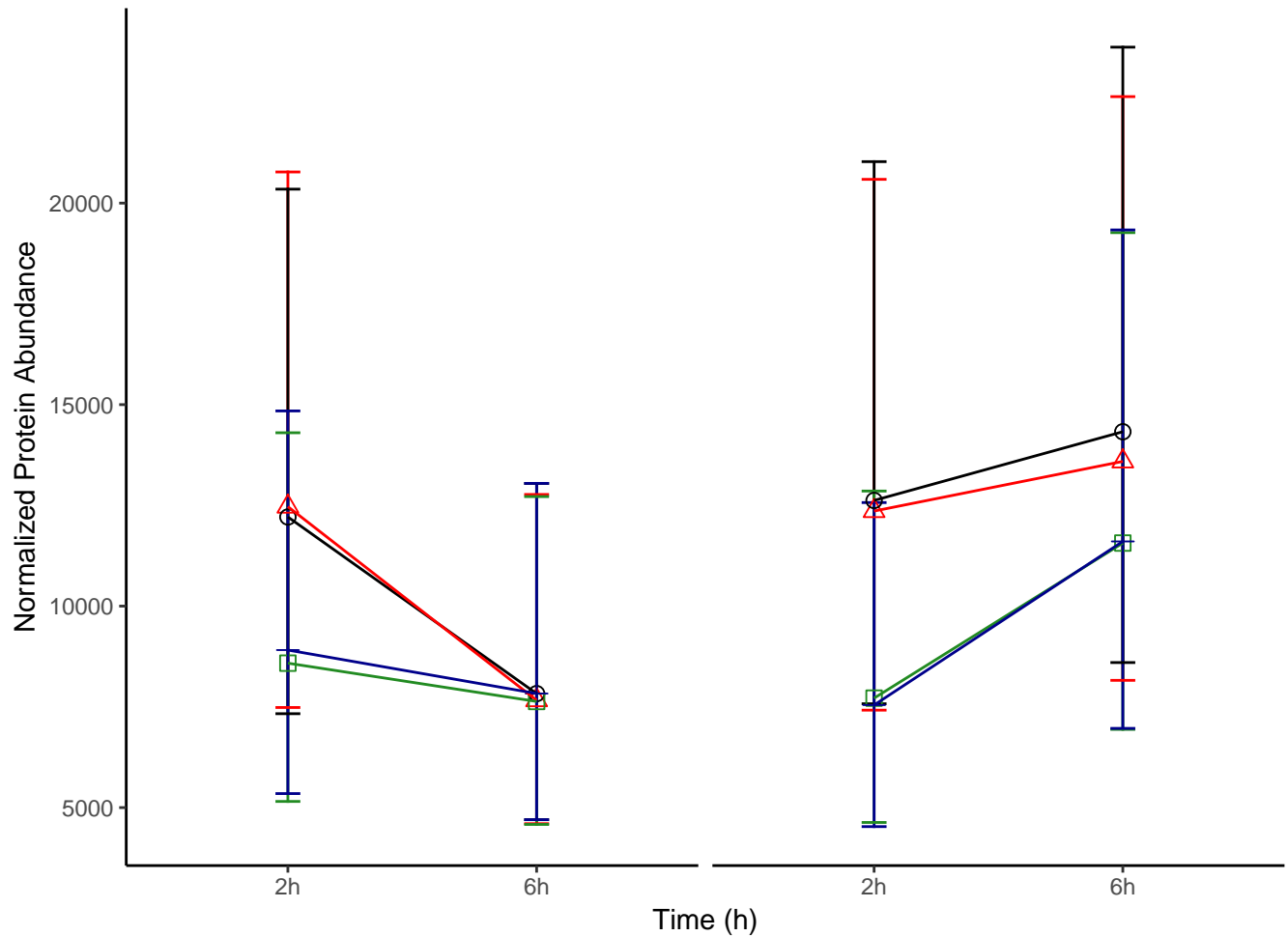


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PDRP\_STAAM

TSB

TSB-dex S-248



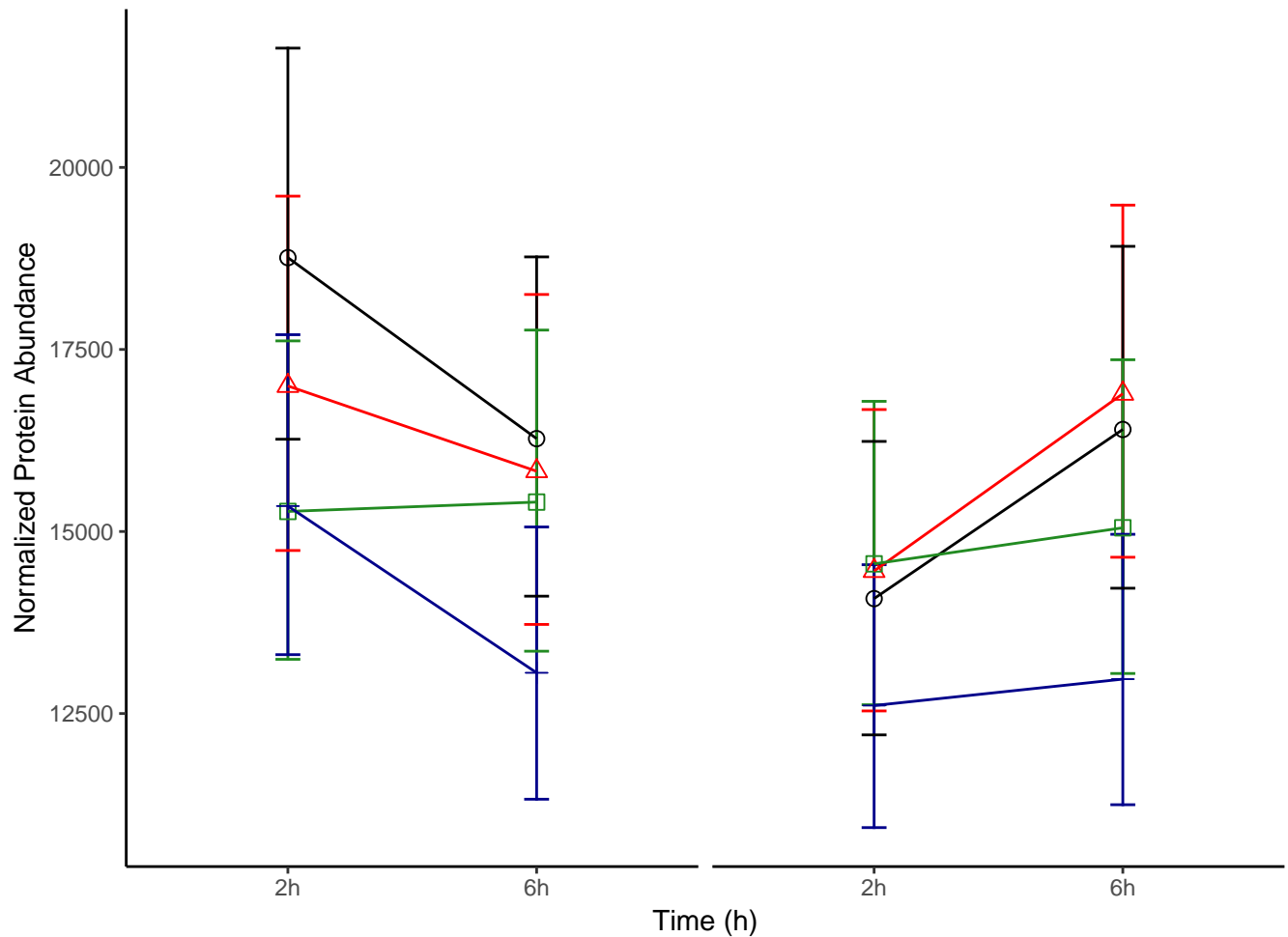
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# PDXS\_STAAM

TSB

TSB-dex S-249

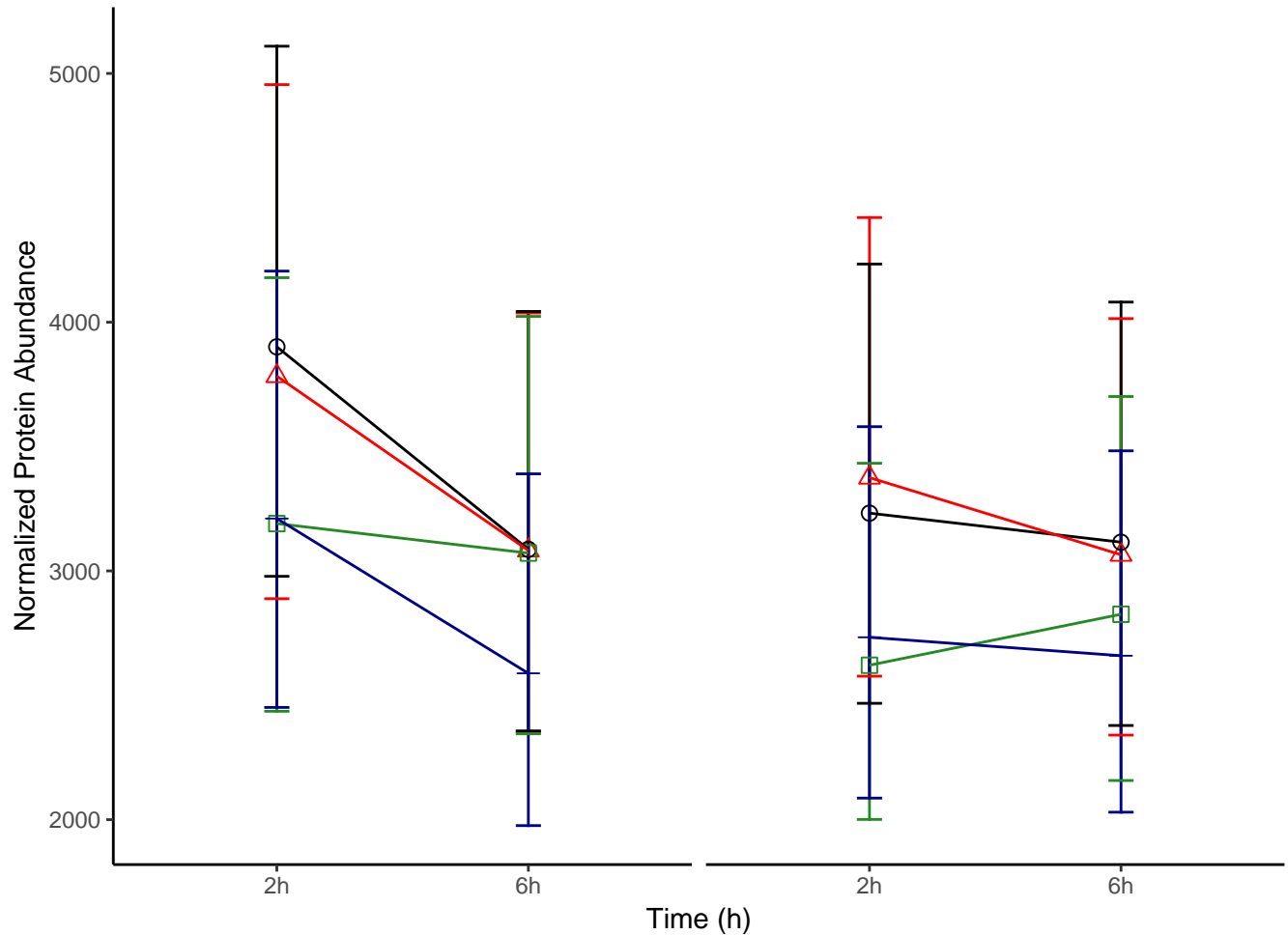


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PDXT\_STAAM

TSB

TSB-dex S-250

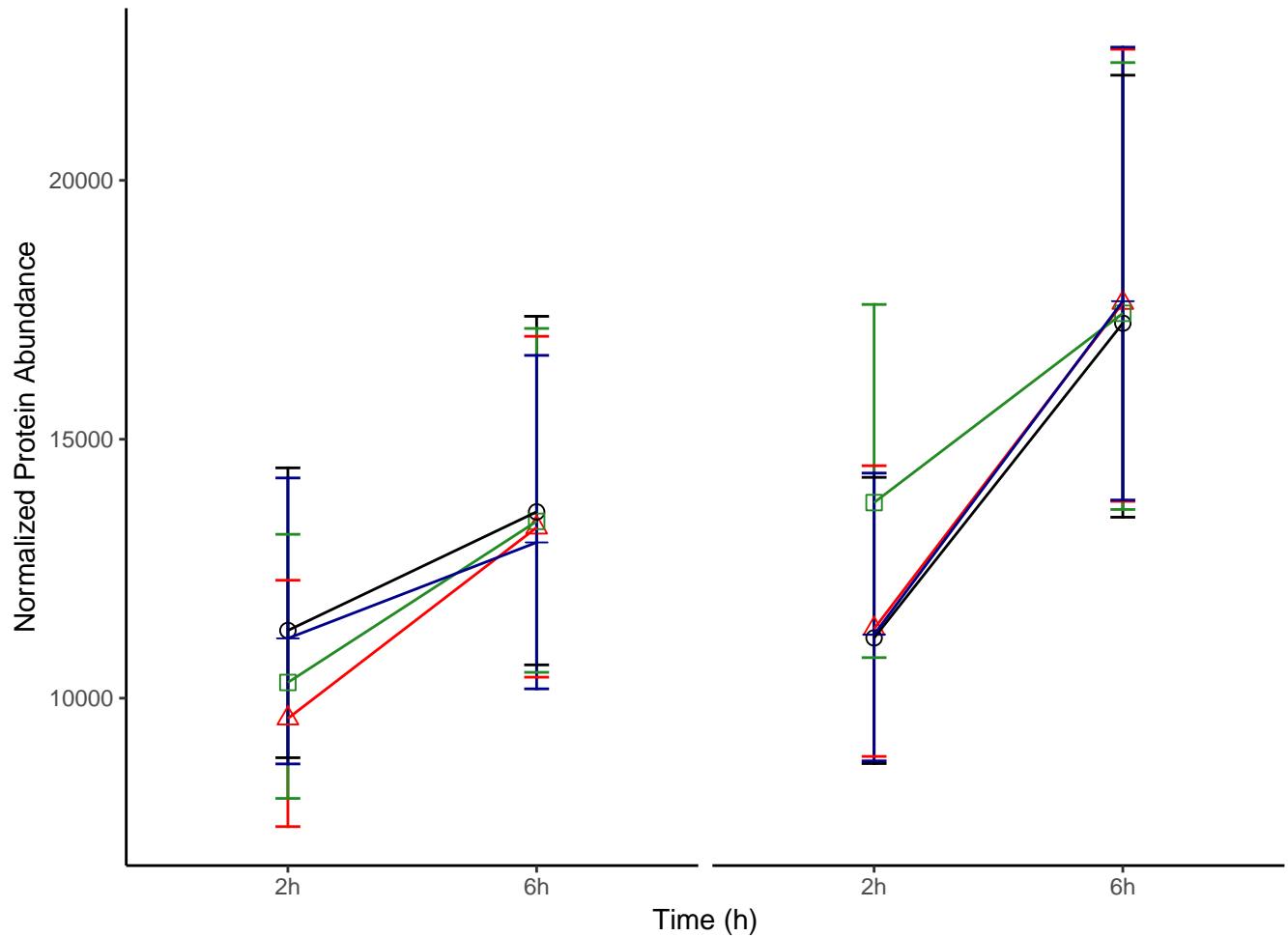


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PEPVL\_STAAM

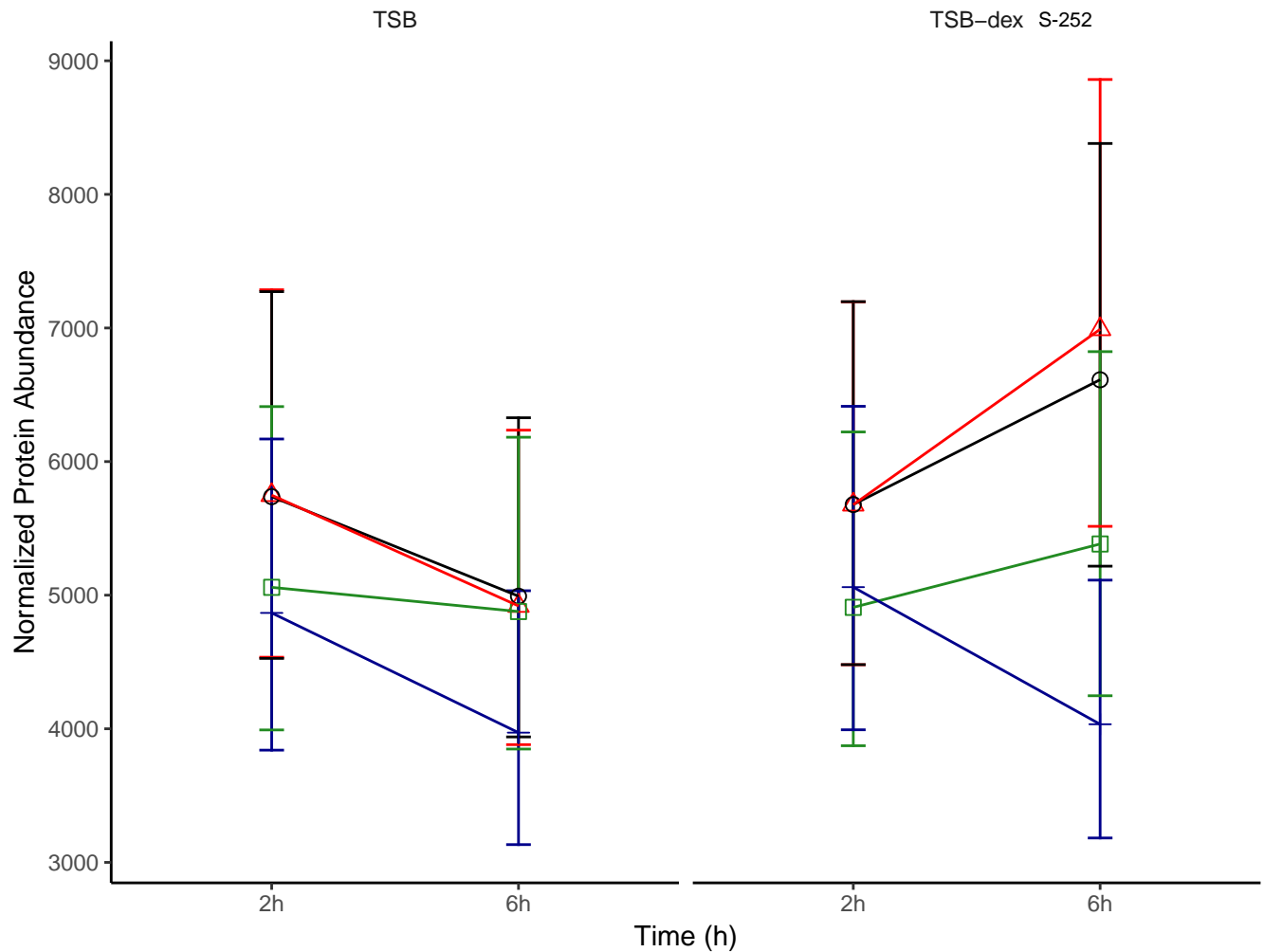
TSB

TSB-dex S-251



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PERR\_STAAM

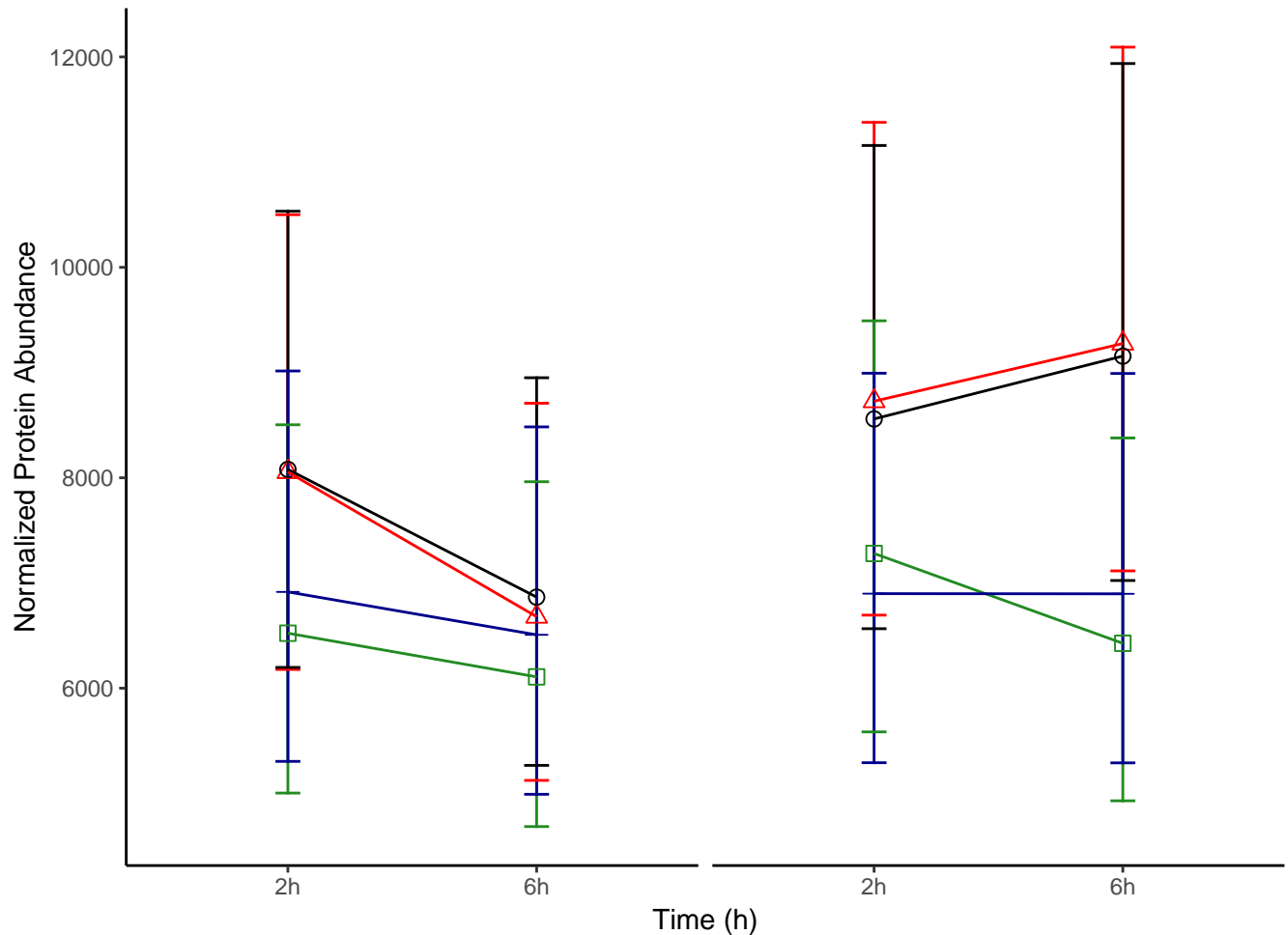


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PFKA\_STAAM

TSB

TSB-dex S-253

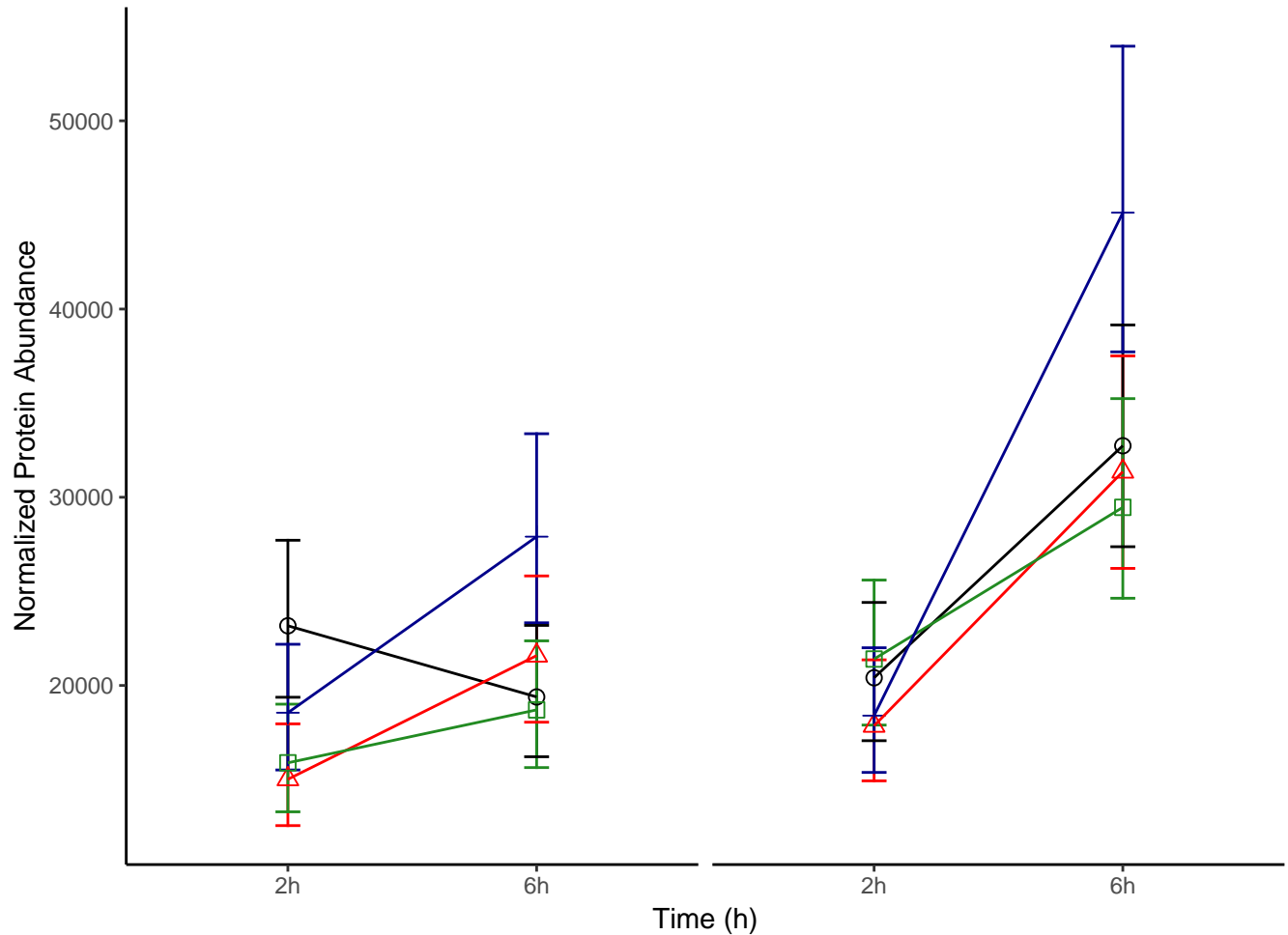


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PFLA\_STAAM

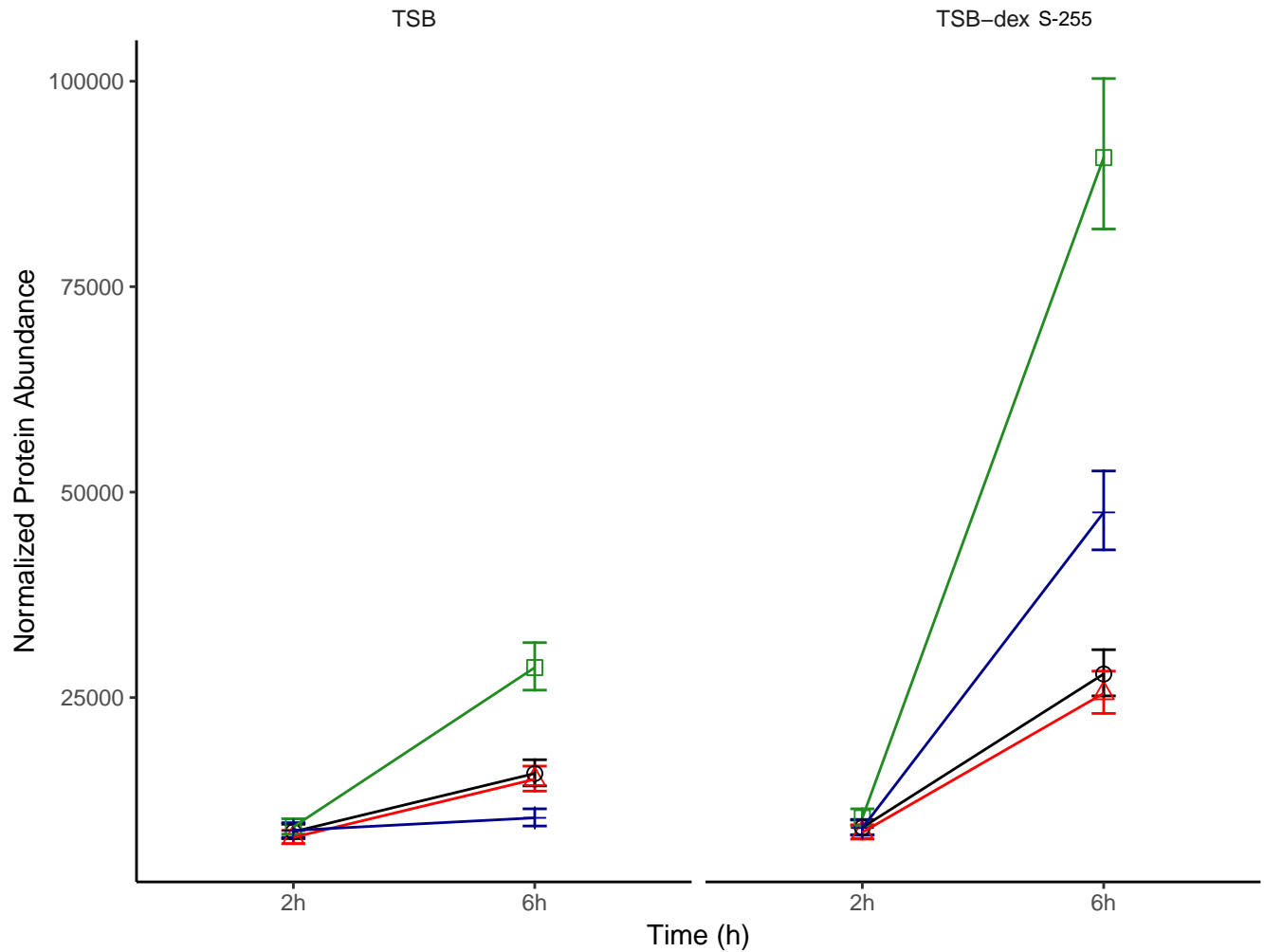
TSB

TSB-dex S-254



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PFLB\_STAAM

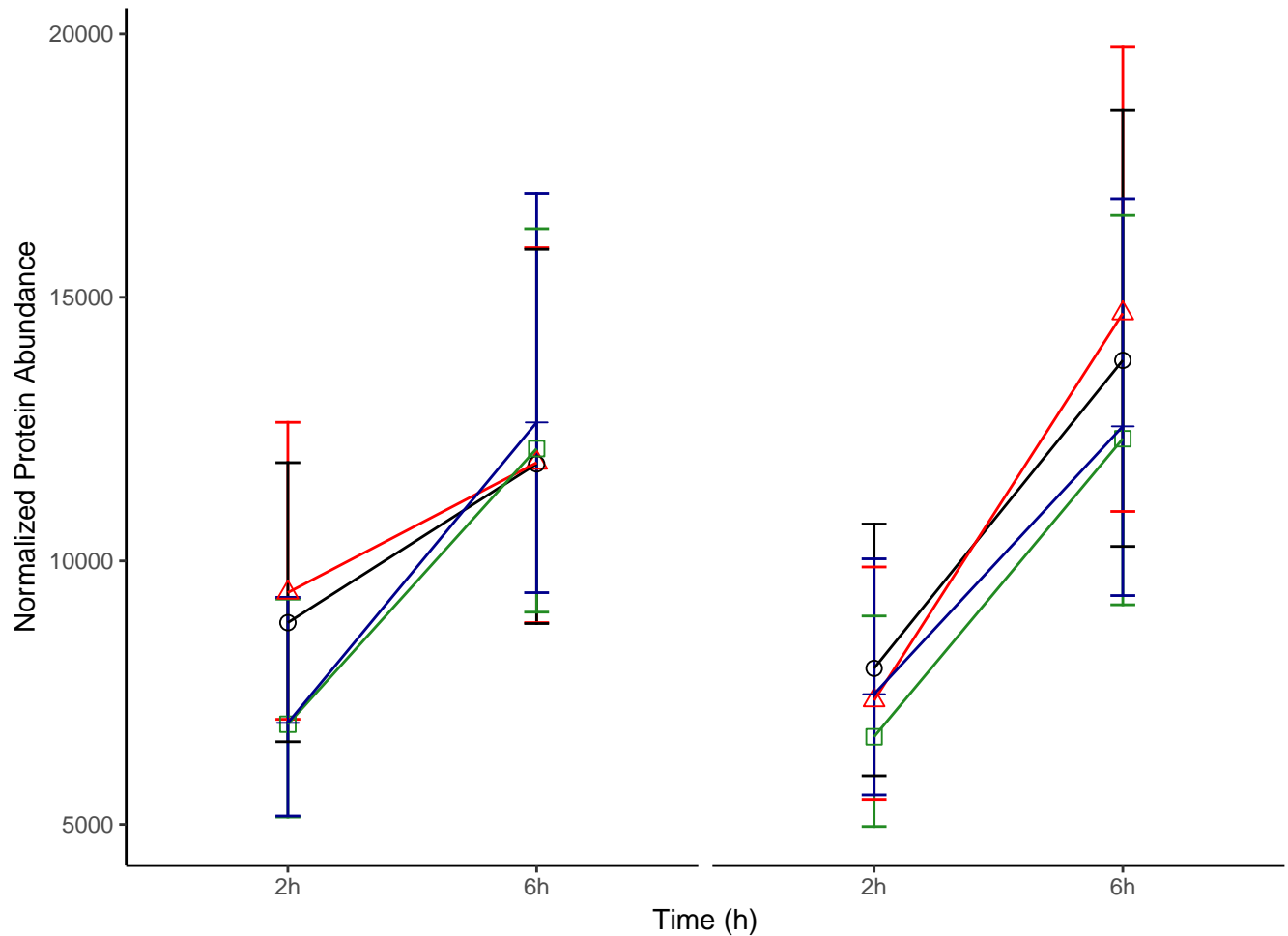


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PGCA\_STAAM

TSB

TSB-dex S-256



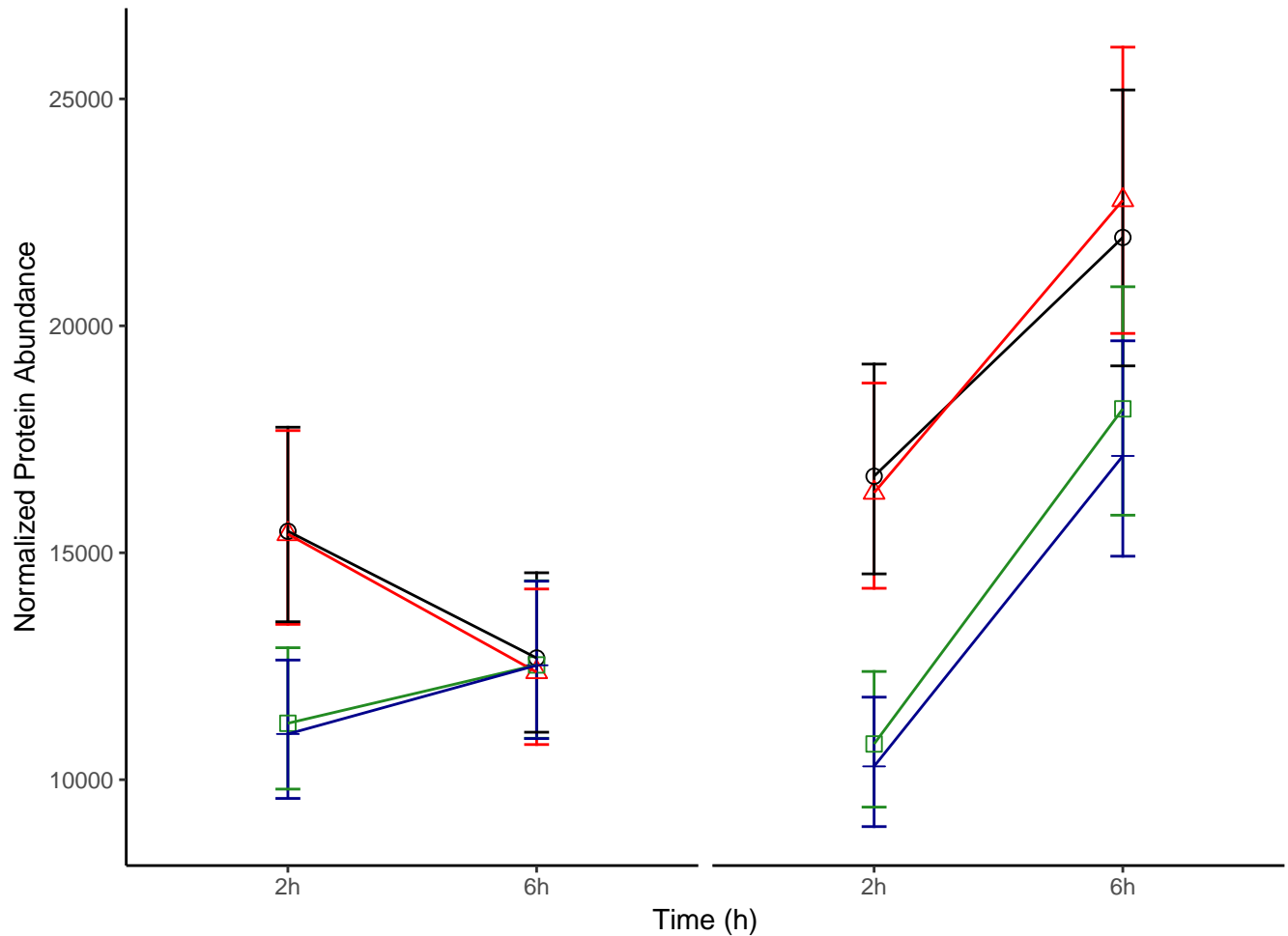
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# PGK\_STAAM

TSB

TSB-dex S-257

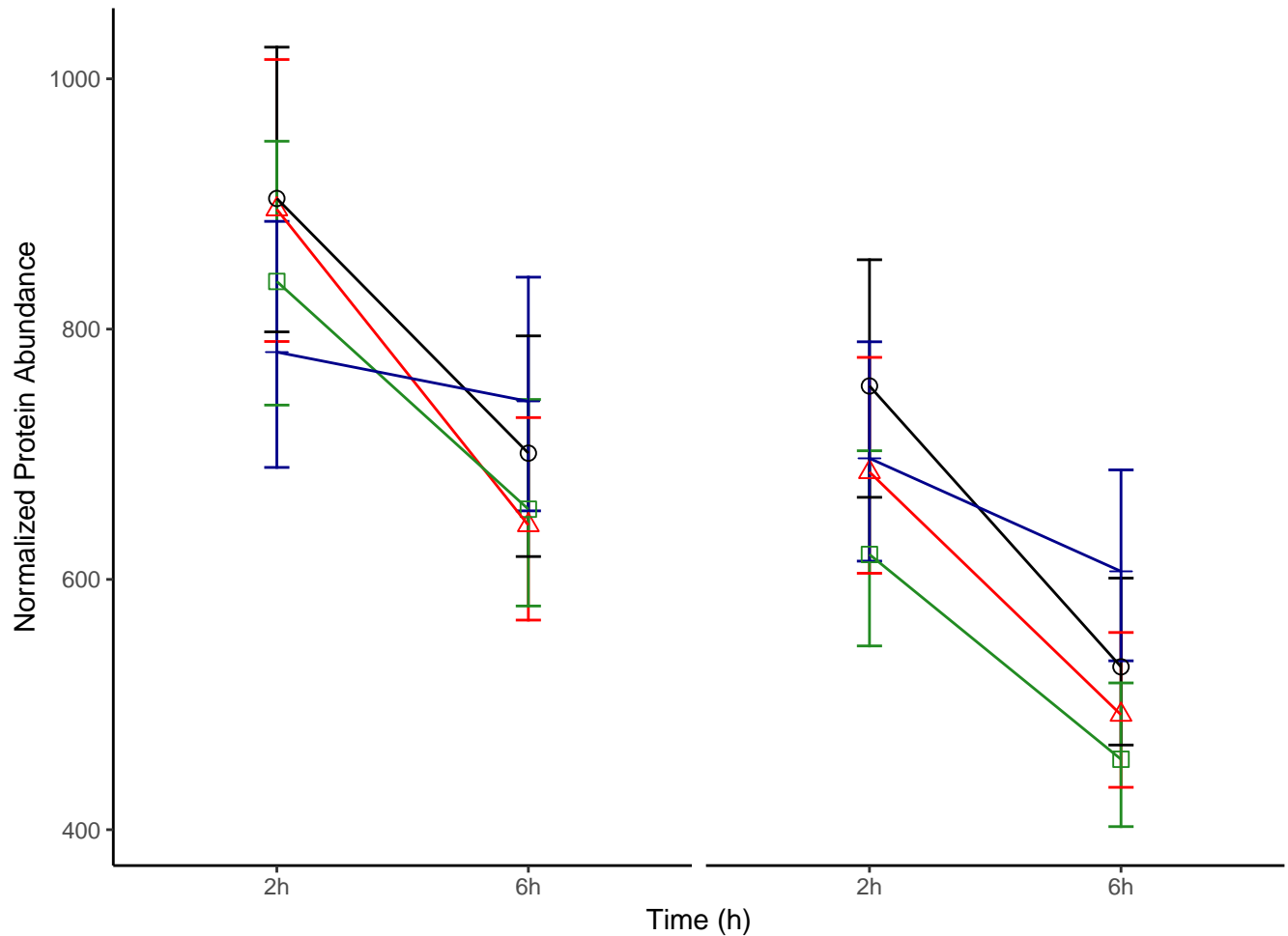


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PHNC\_STAAM

TSB

TSB-dex S-258

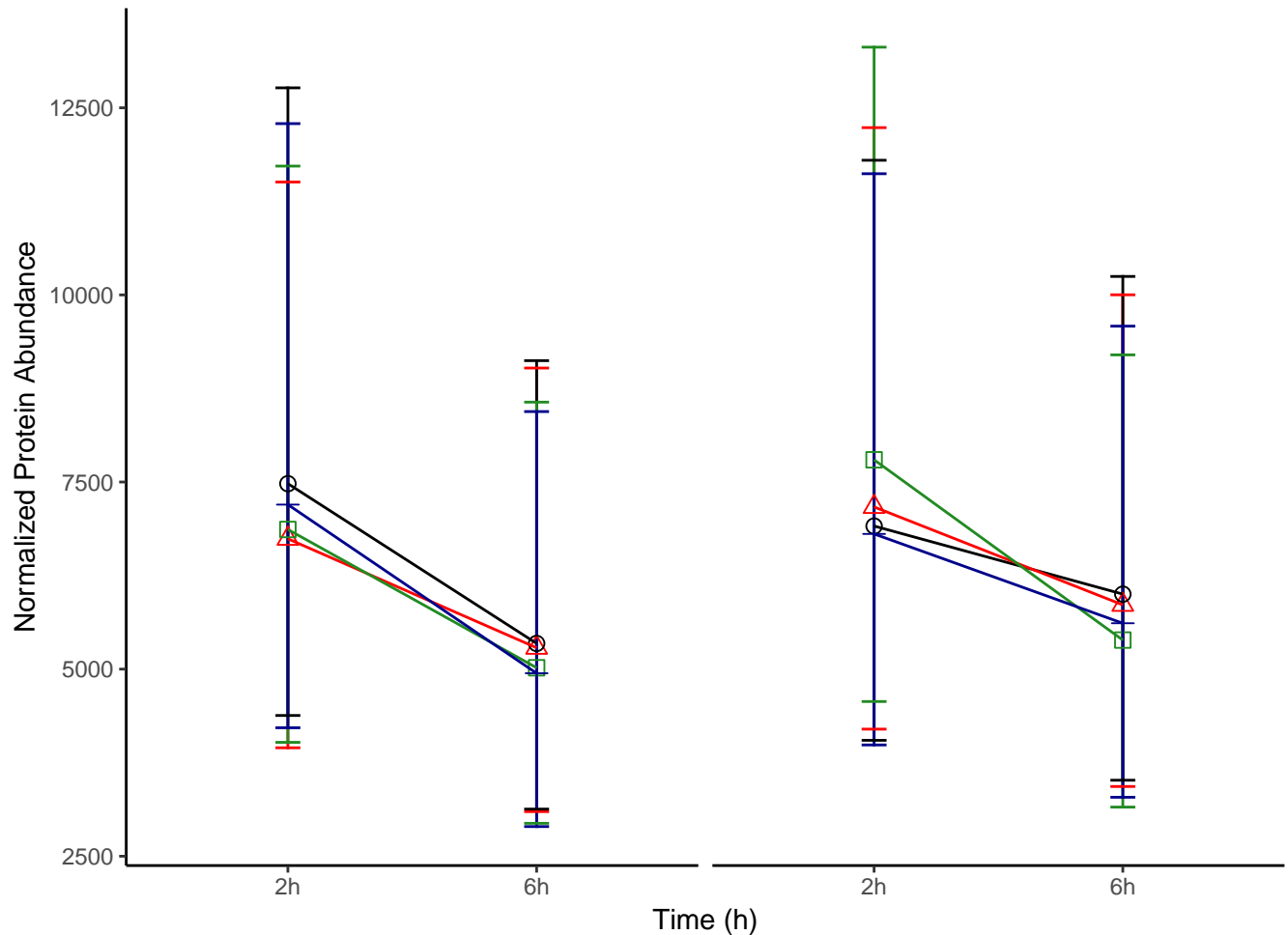


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PLSX\_STAAM

TSB

TSB-dex S-259

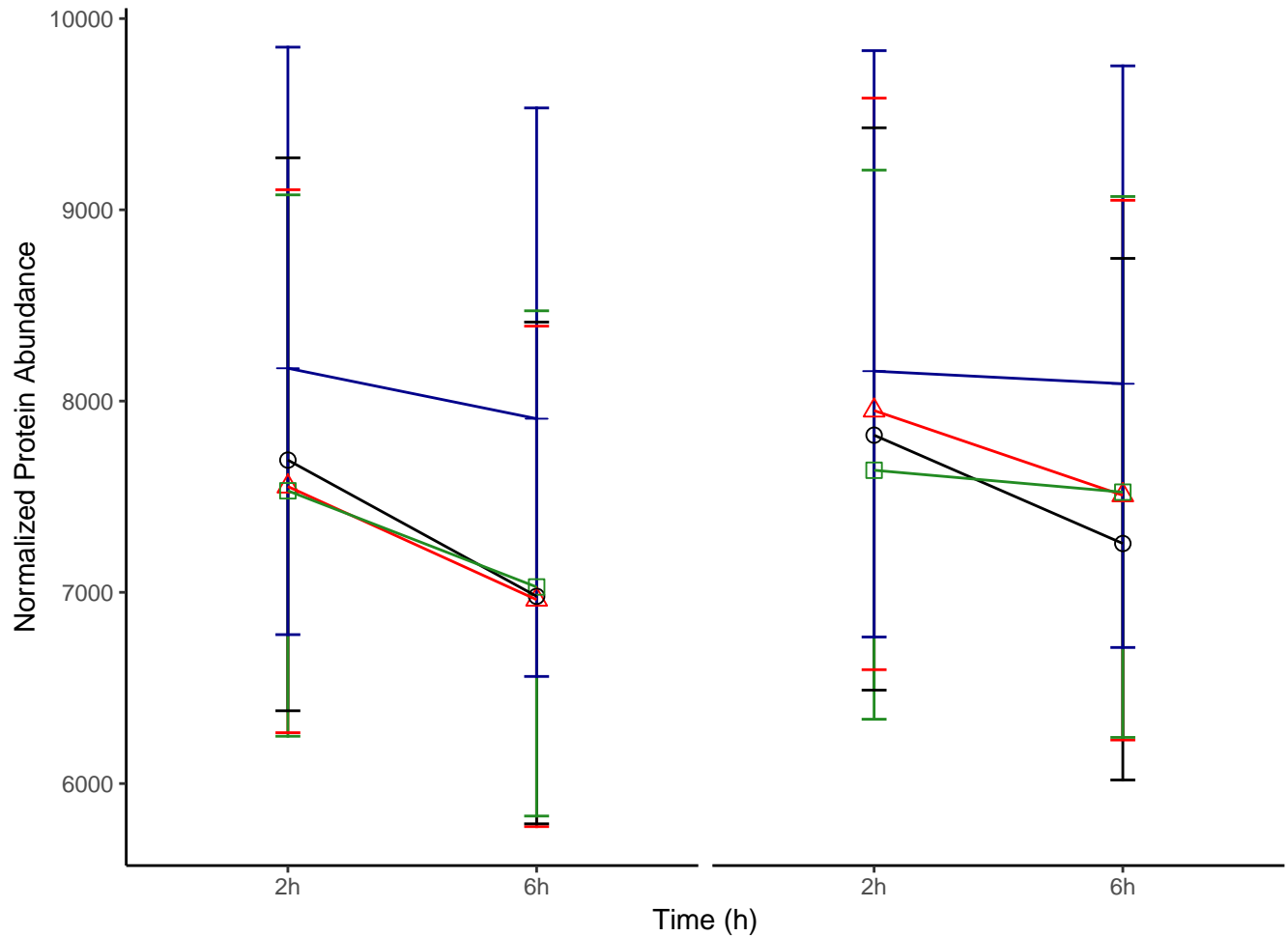


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PNP\_STAAM

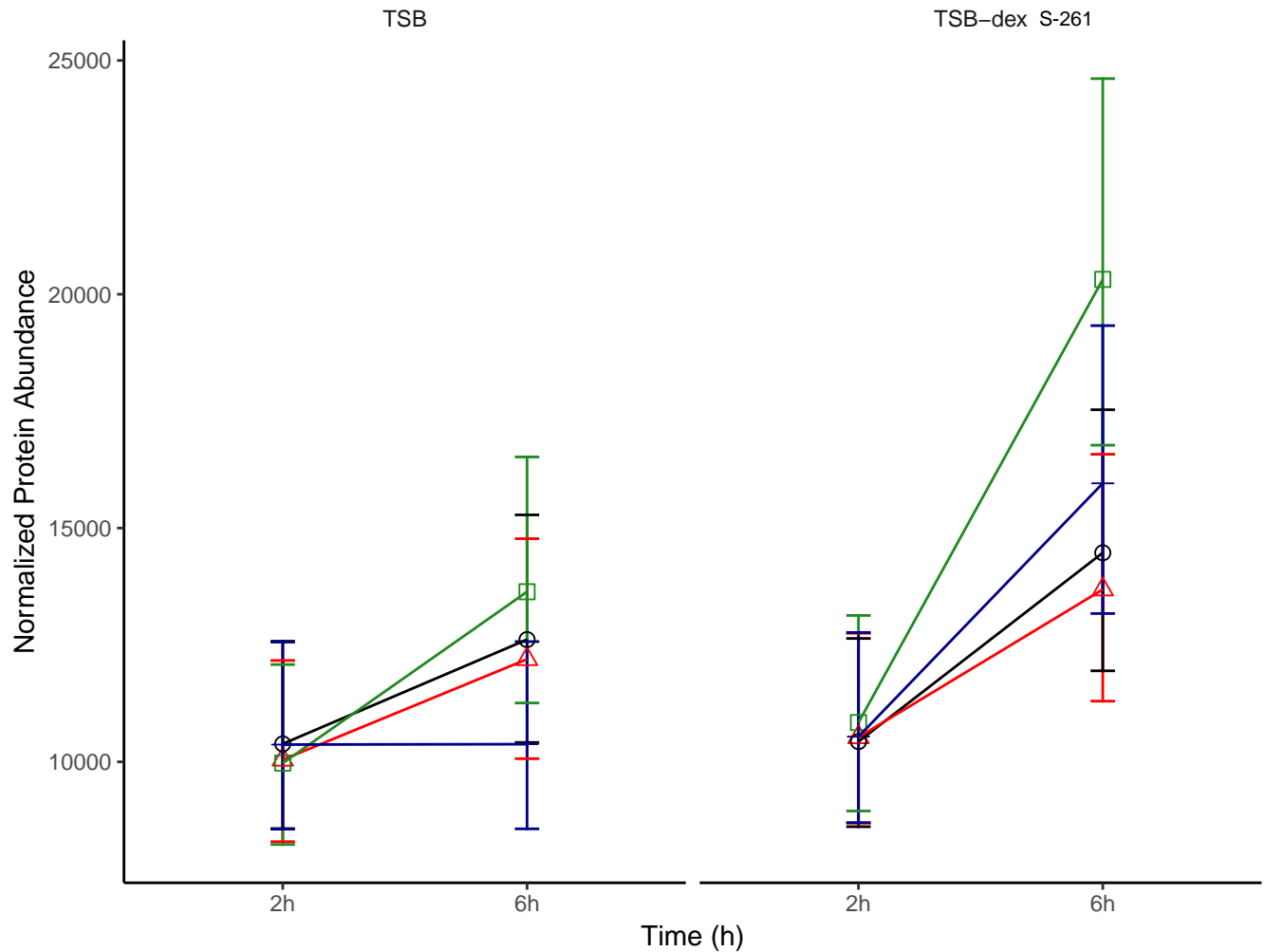
TSB

TSB-dex S-260



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PPAC\_STAAM

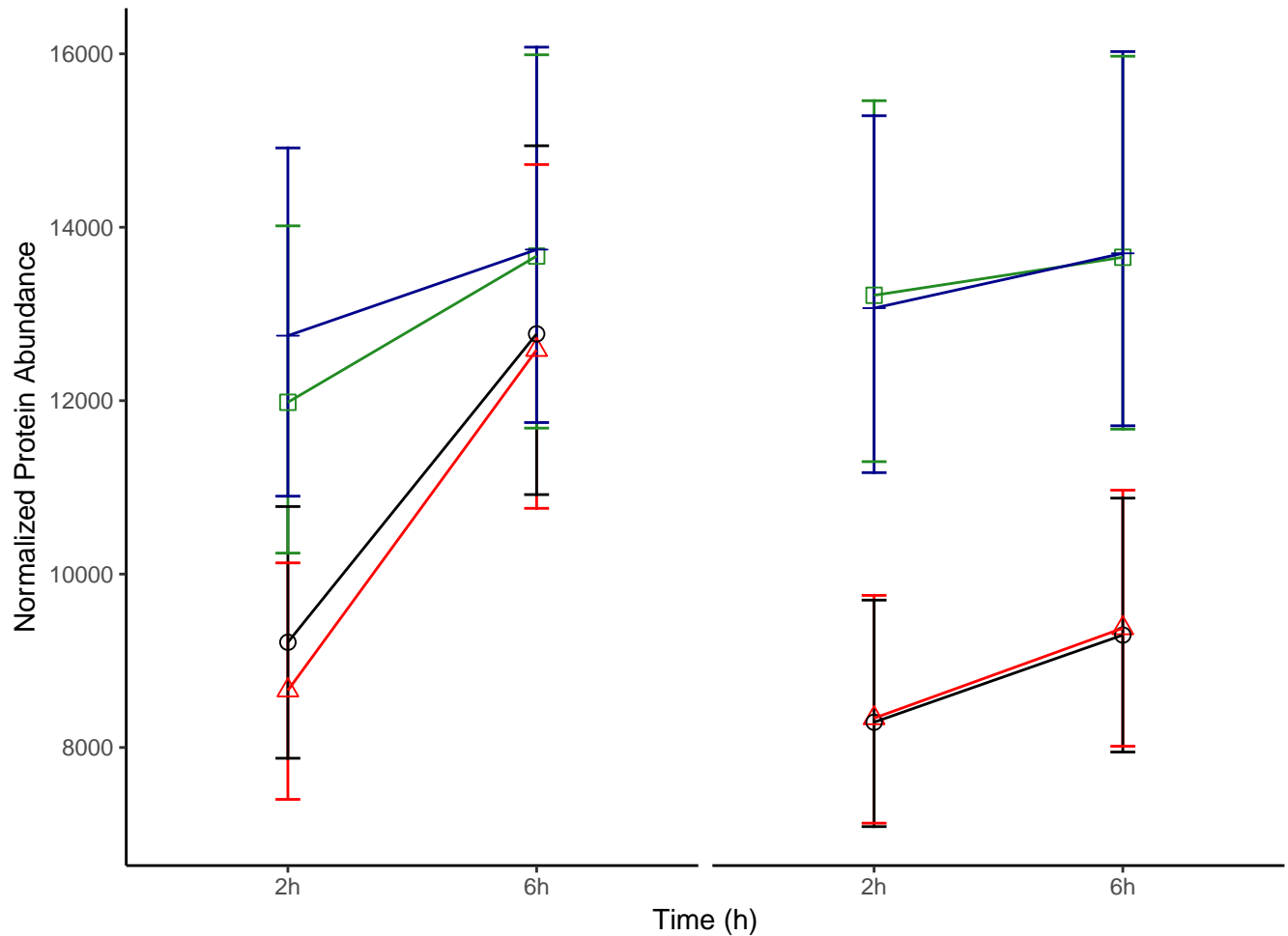


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PPAT\_STAAM

TSB

TSB-dex S-262

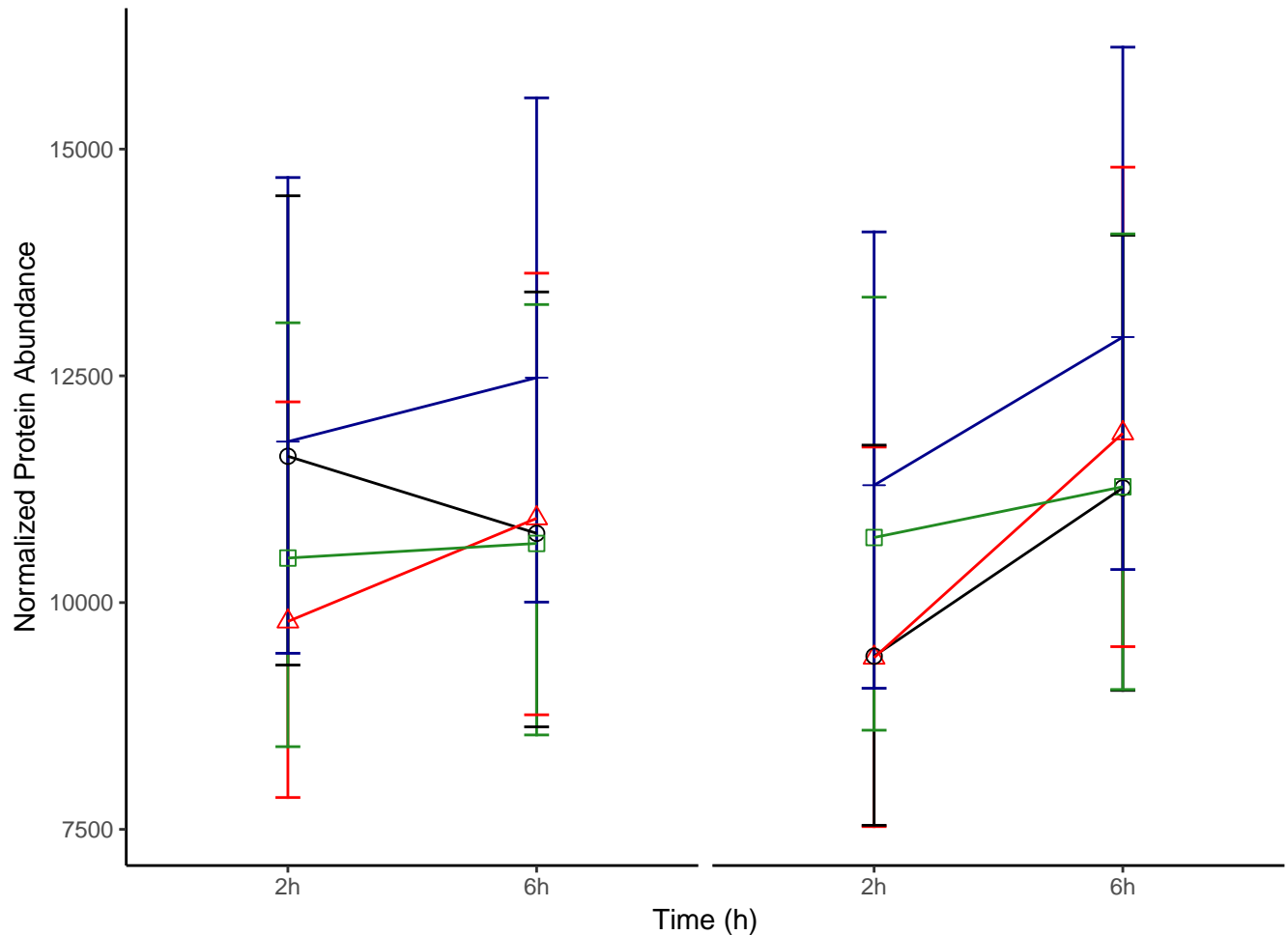


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PPI1\_STAAM

TSB

TSB-dex S-263



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PRSA\_STAAM

TSB

TSB-dex S-264

Normalized Protein Abundance

20000

15000

10000

2h

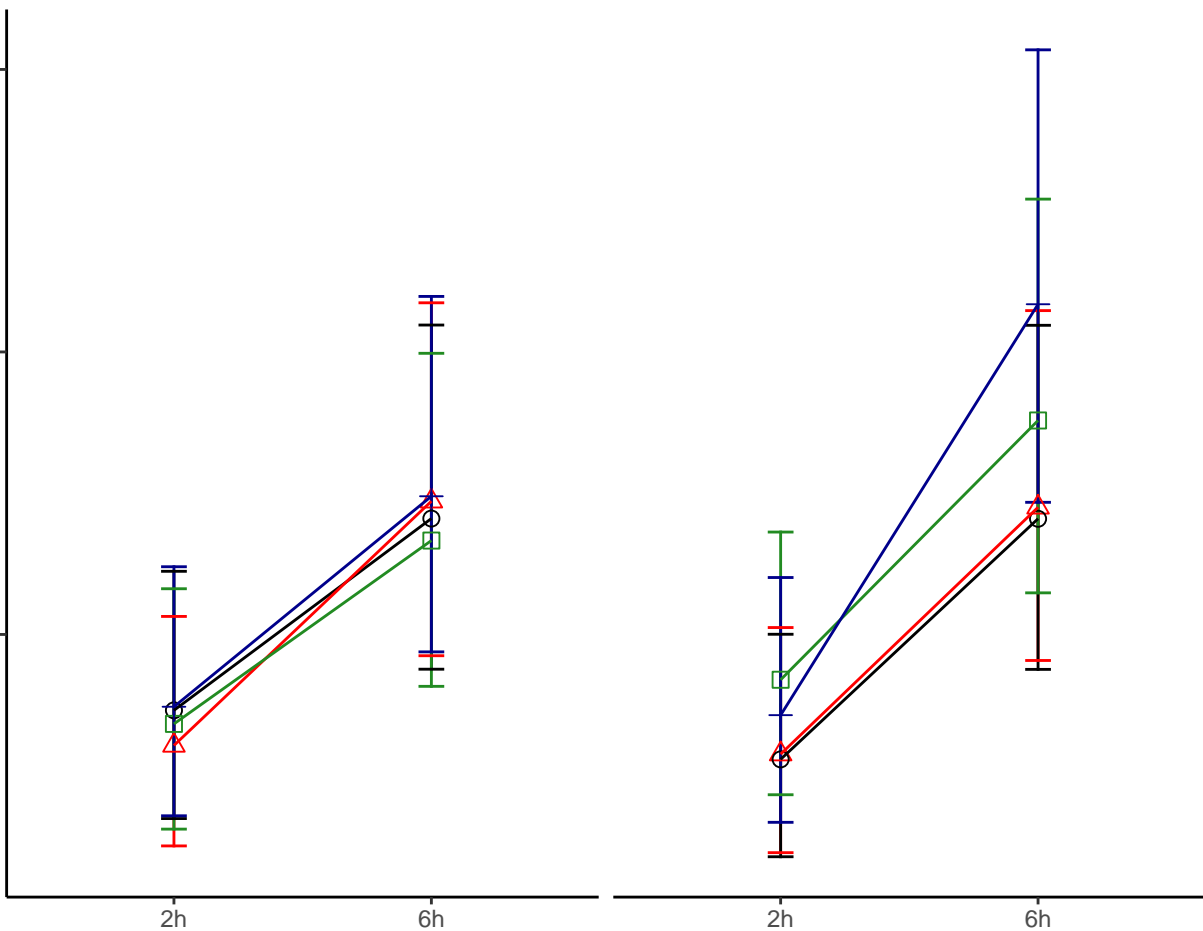
6h

2h

6h

Time (h)

- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

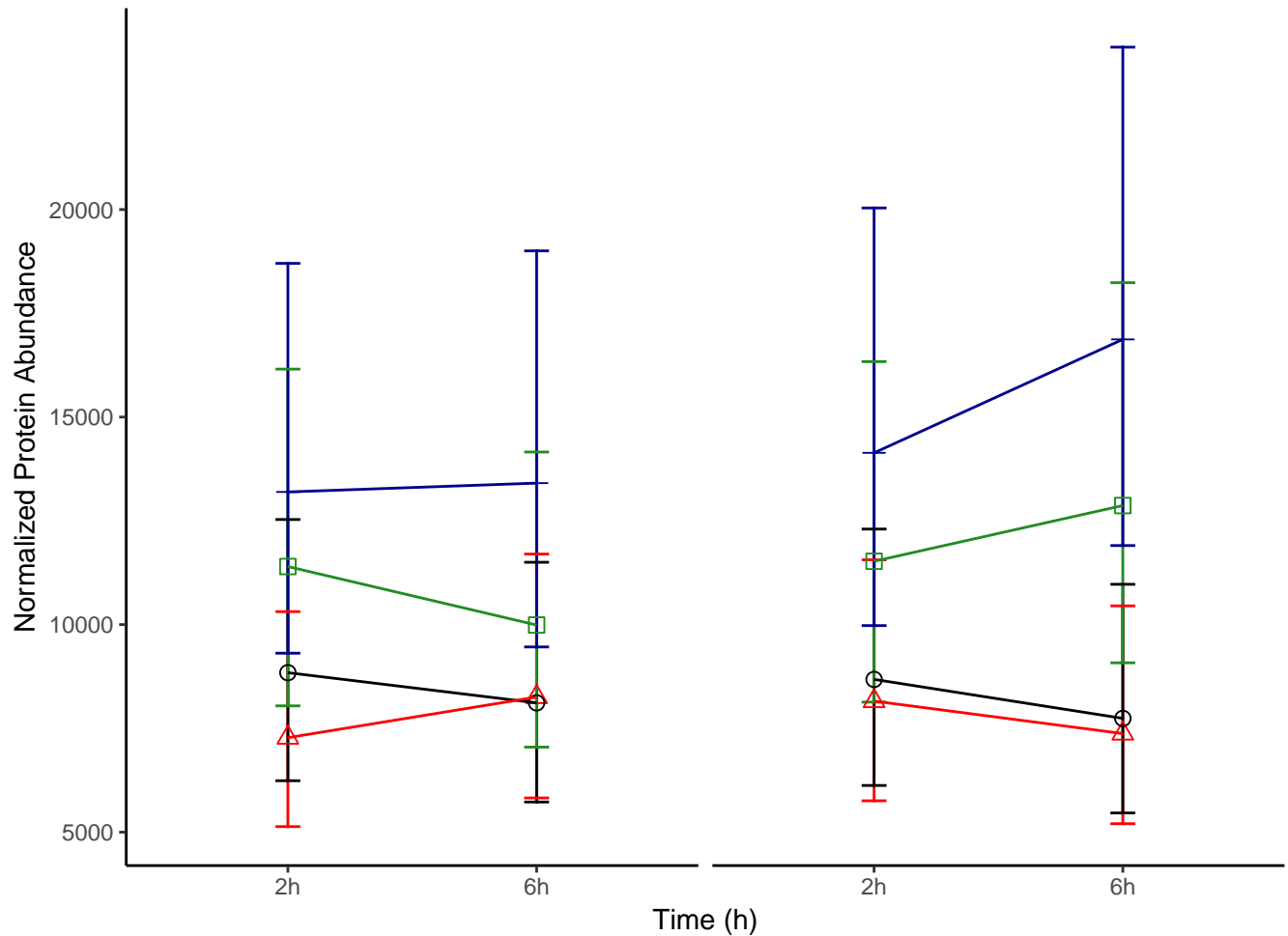




# PSTB\_STAAM

TSB

TSB-dex S-265

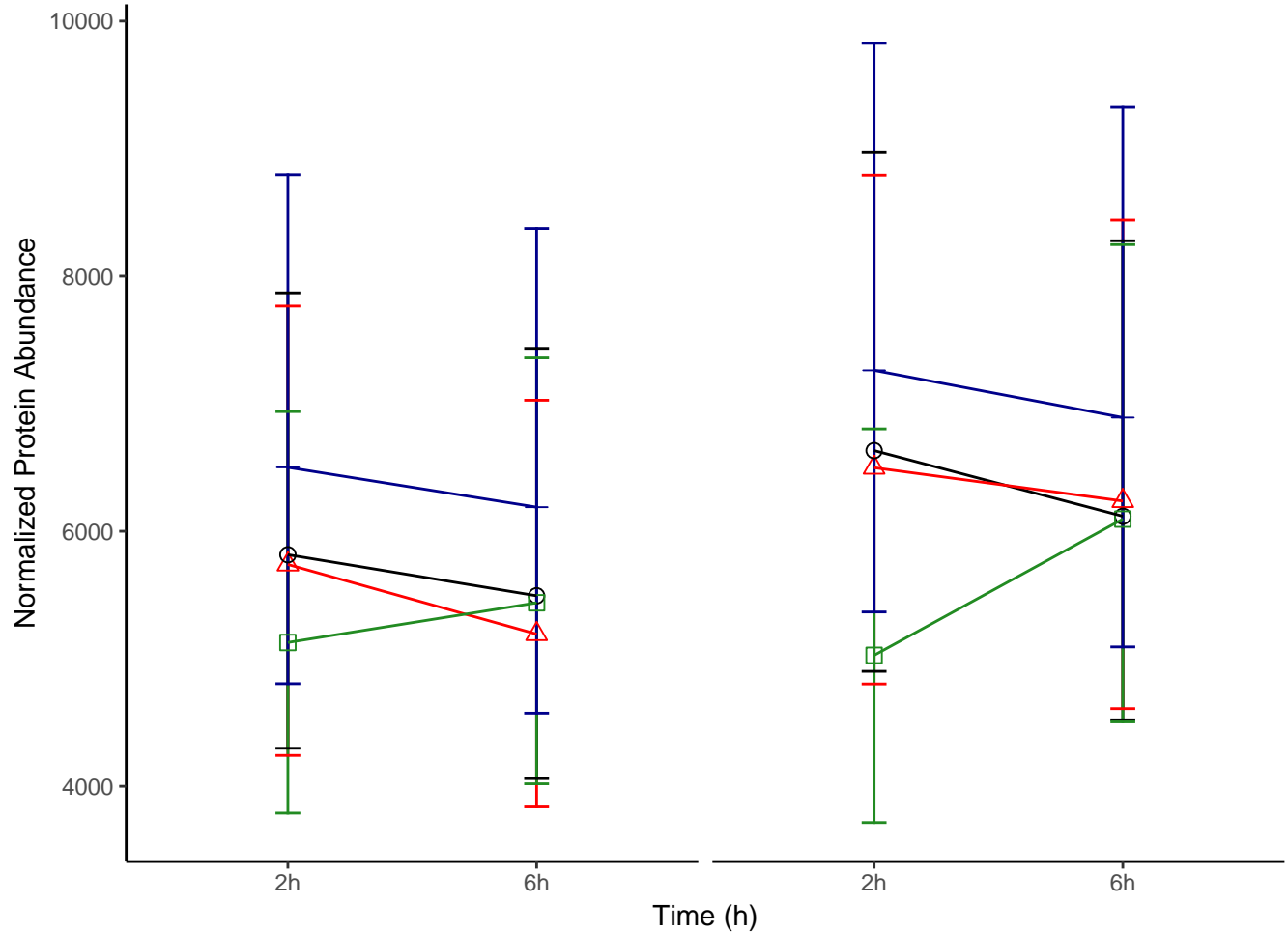


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PSTS\_STAAM

TSB

TSB-dex S-266

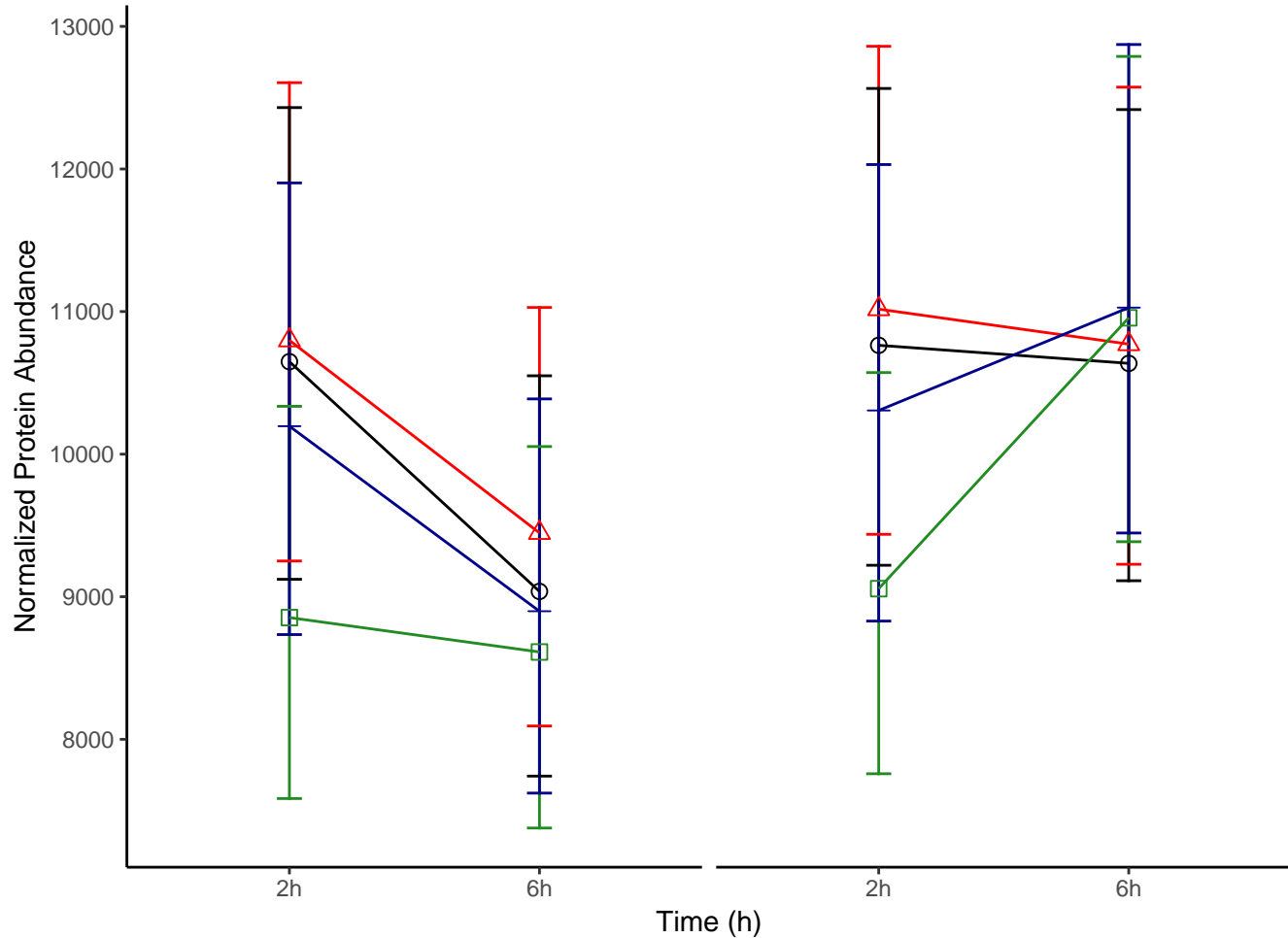


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PT1\_STAAM

TSB

TSB-dex S-267

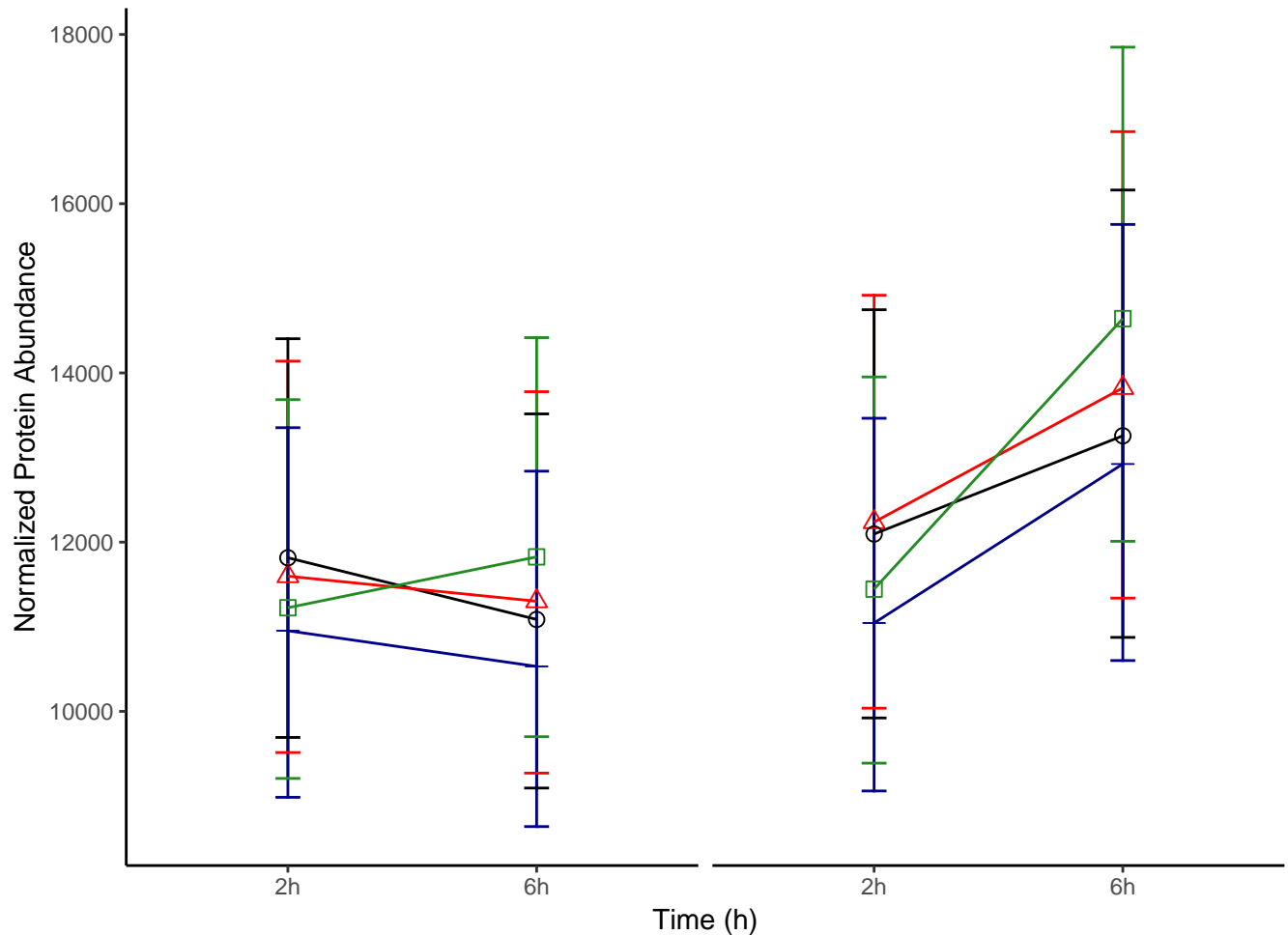


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PTAS\_STAAM

TSB

TSB-dex S-268

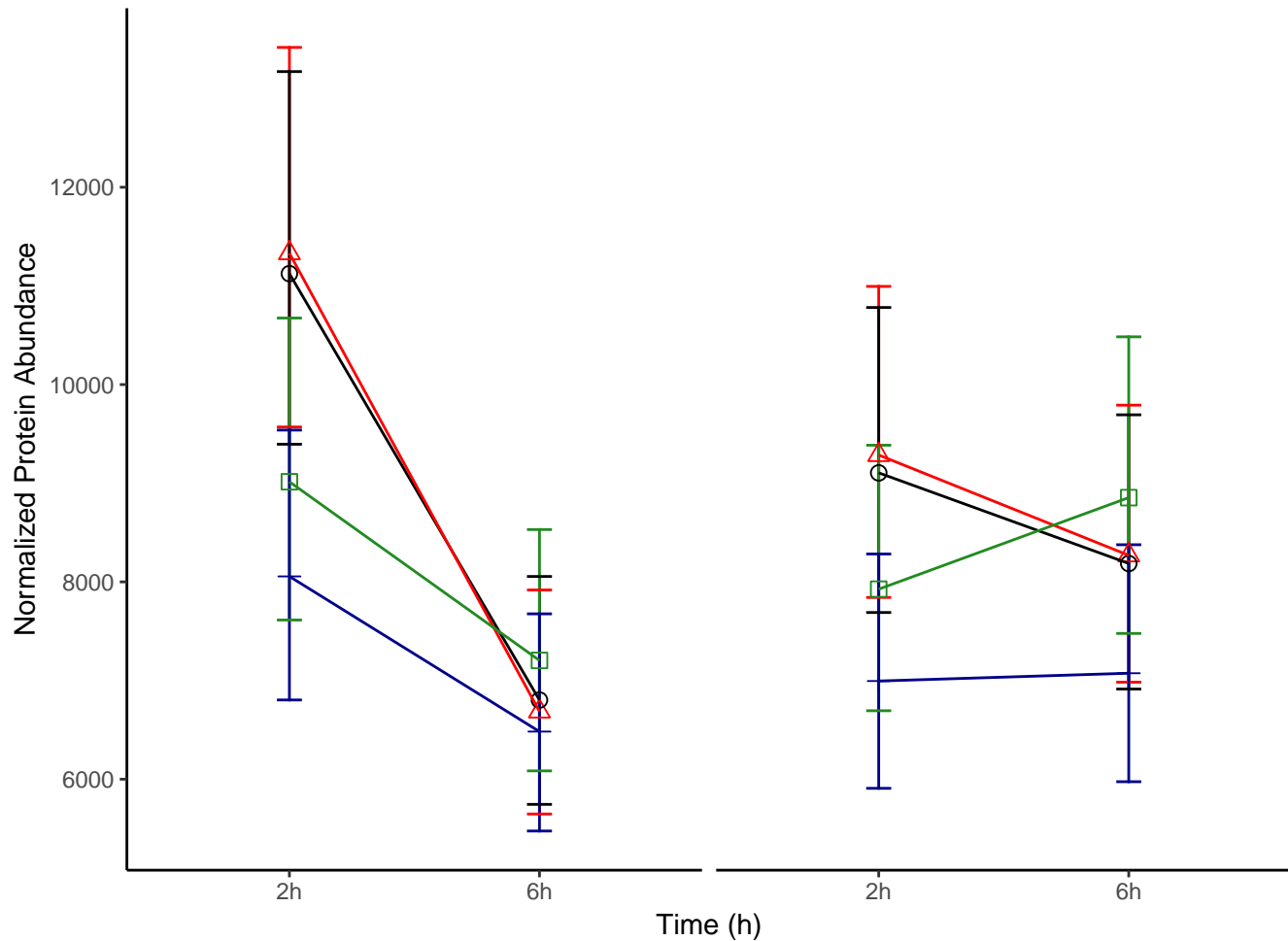


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PTG3C\_STAAM

TSB

TSB-dex S-269

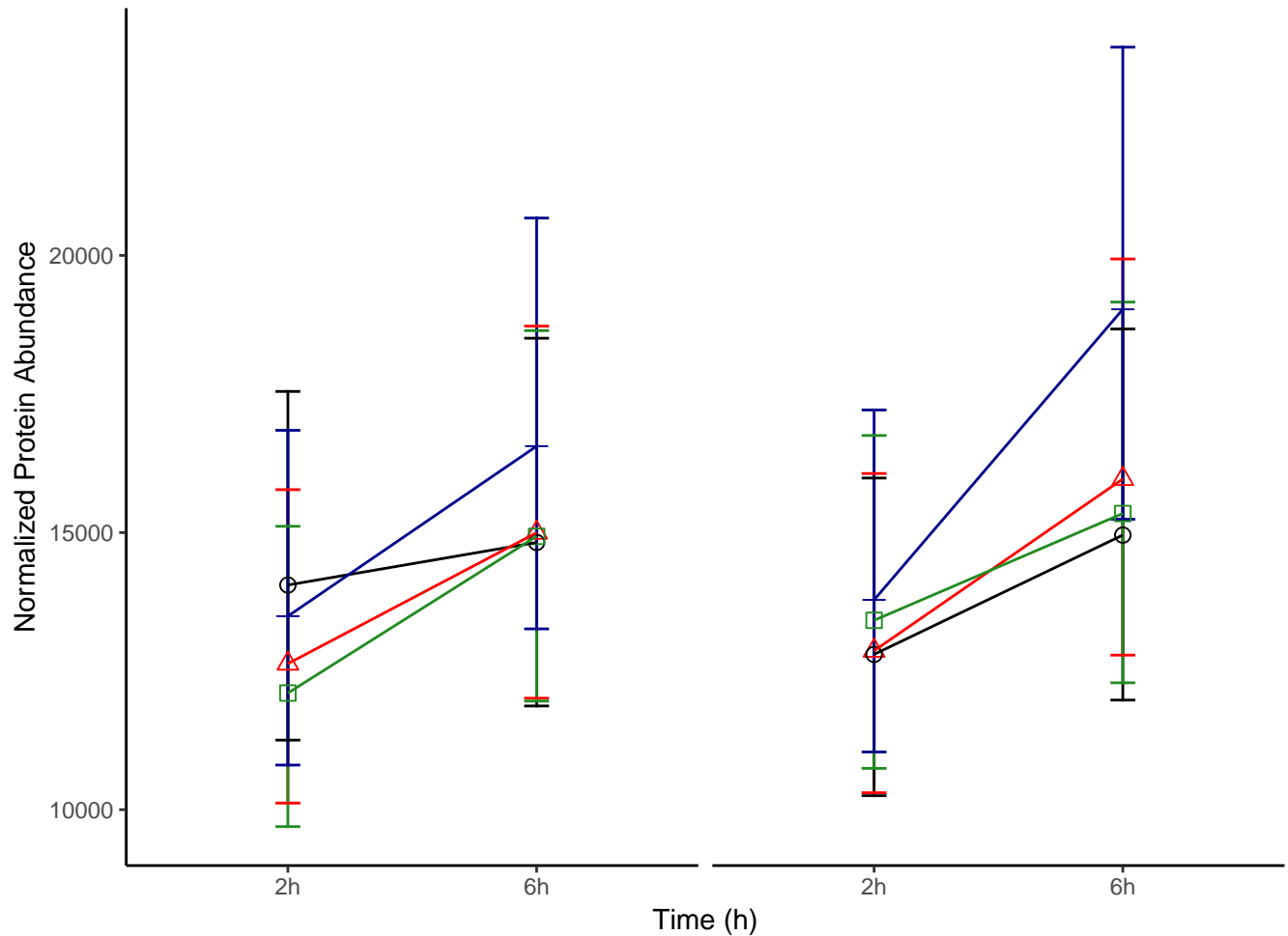


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PTGA\_STAAM

TSB

TSB-dex S-270

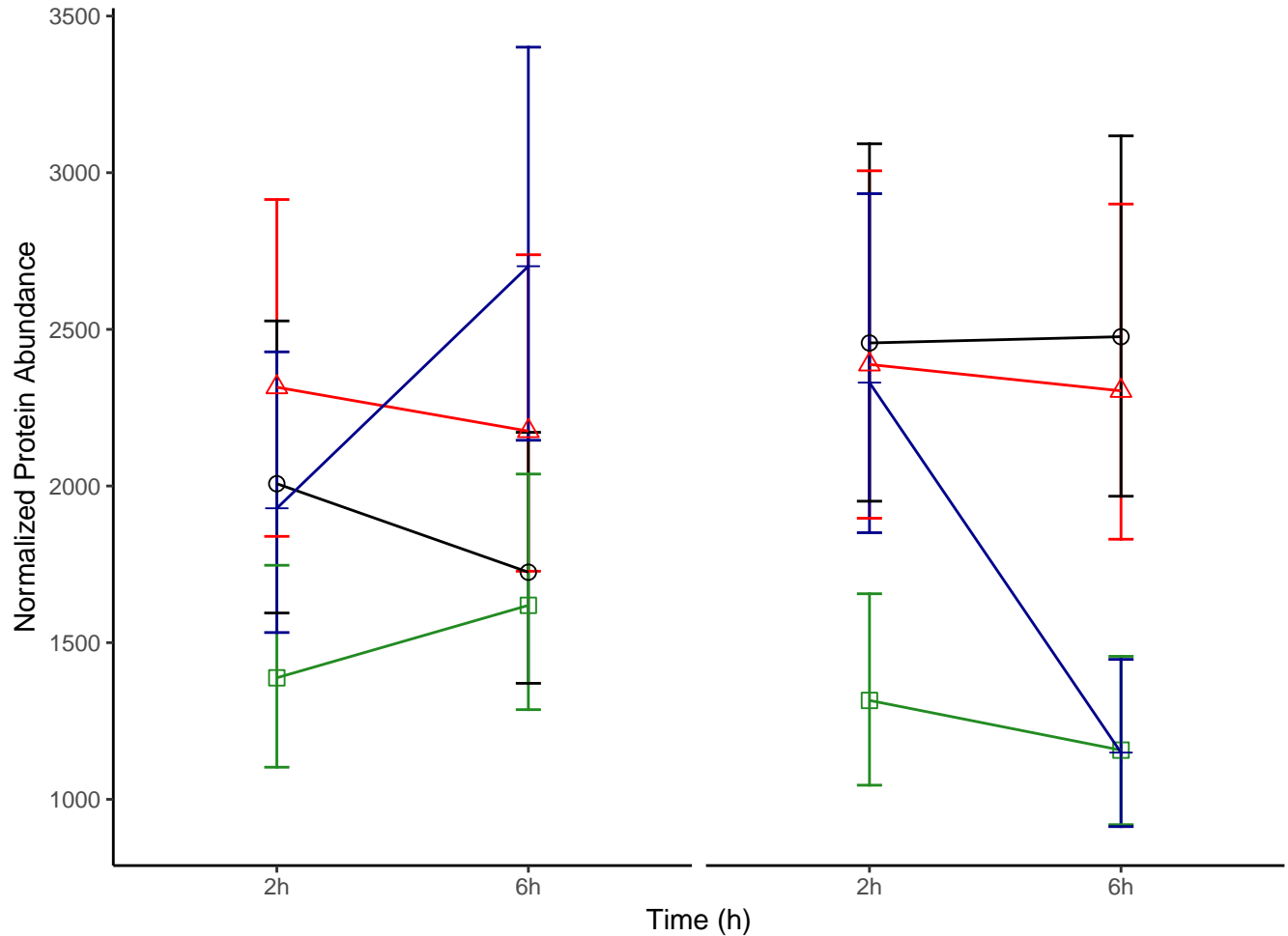


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PTH\_STAAM

TSB

TSB-dex S-271

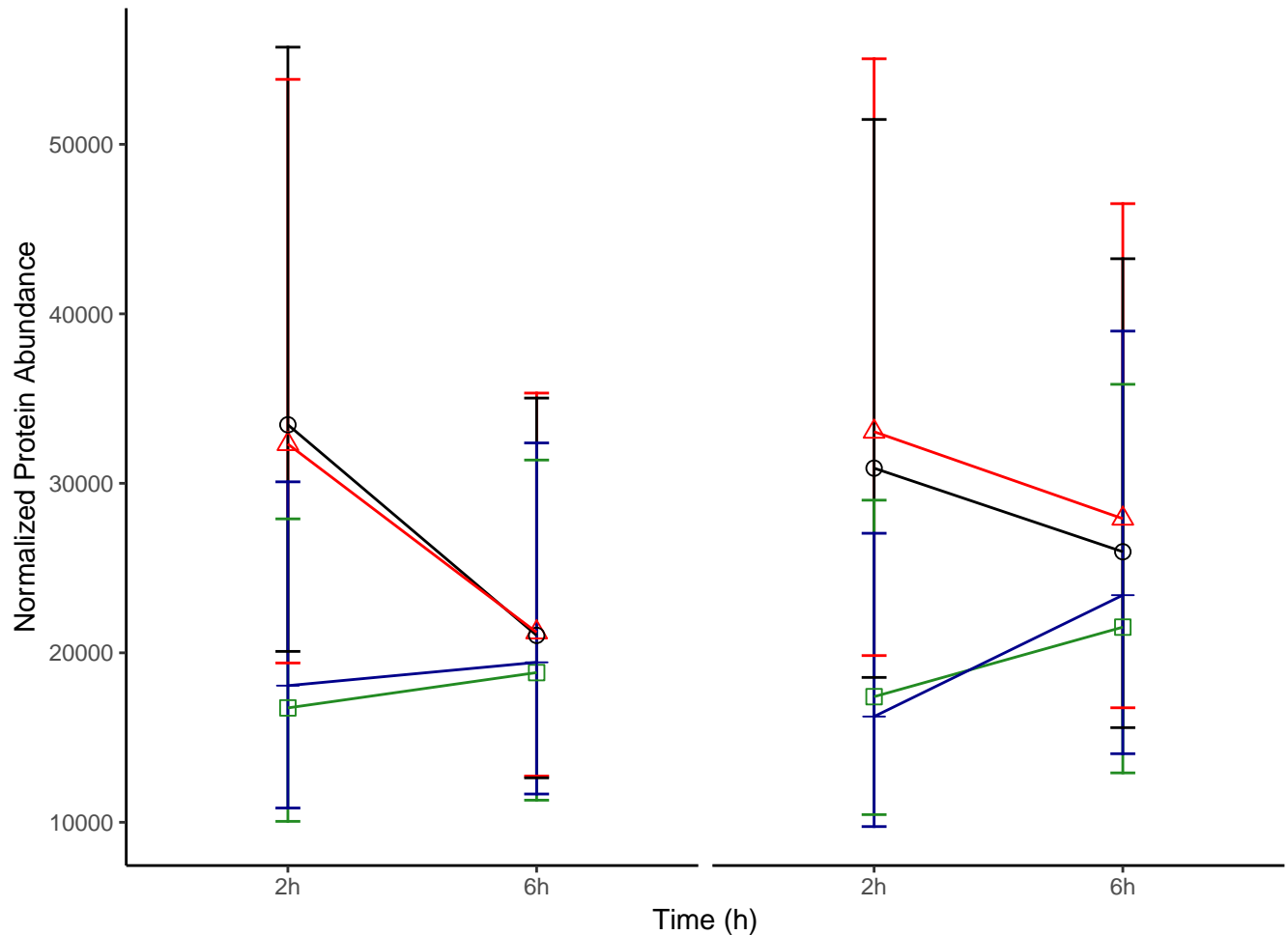


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PTHP\_STAAM

TSB

TSB-dex S-272



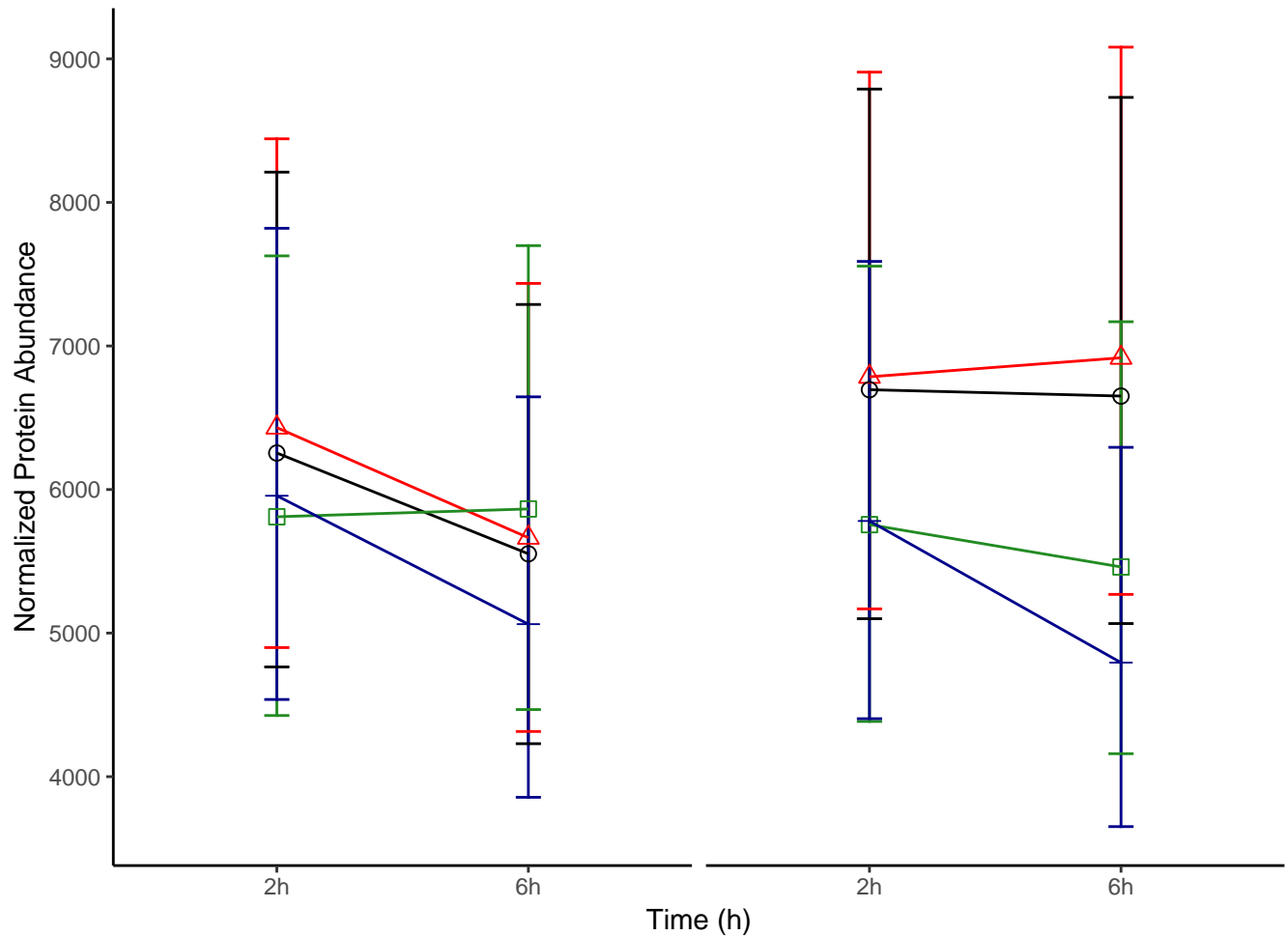
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# PTMA\_STAAM

TSB

TSB-dex S-273

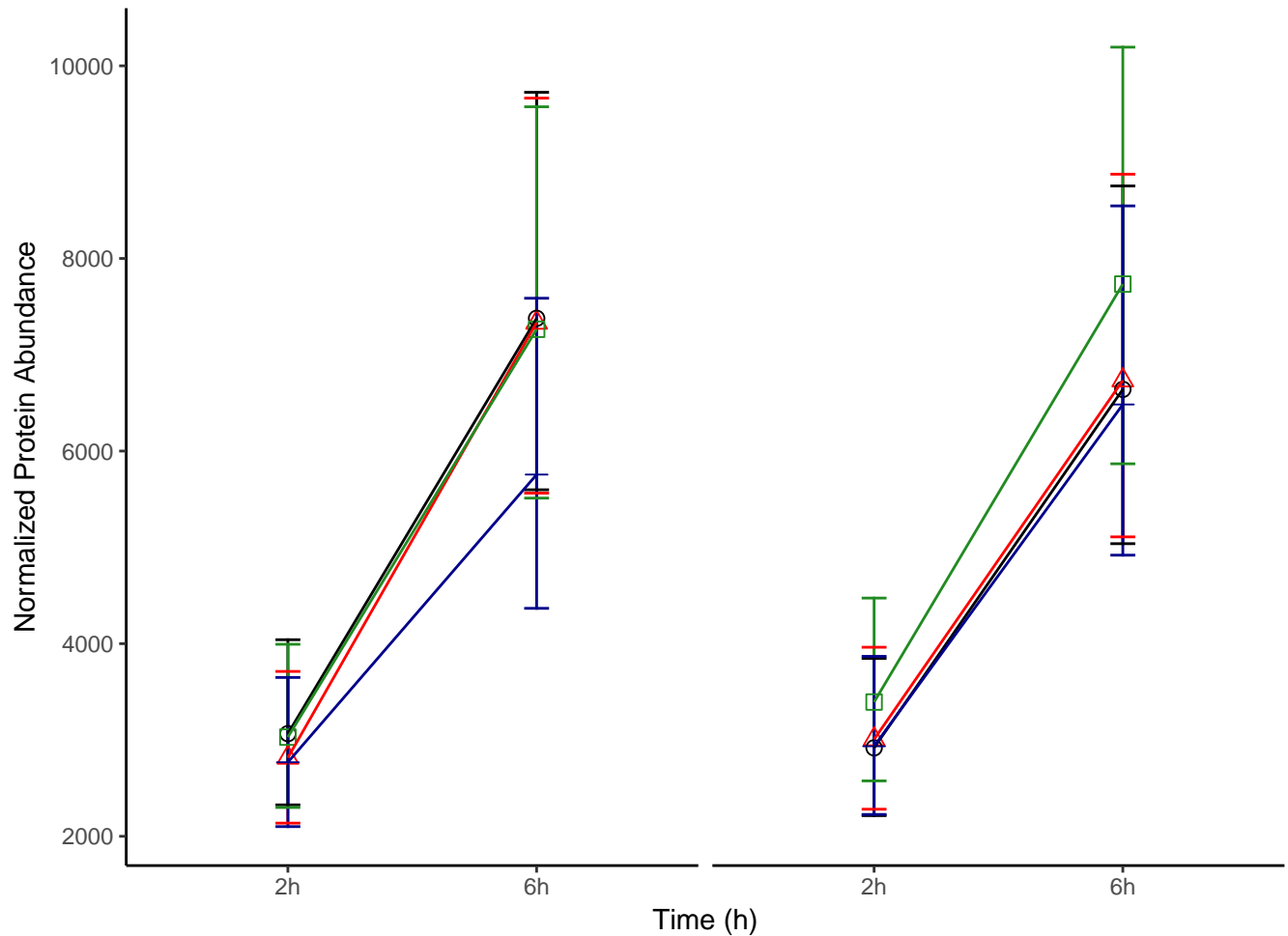


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR1\_STAAM

TSB

TSB-dex S-274

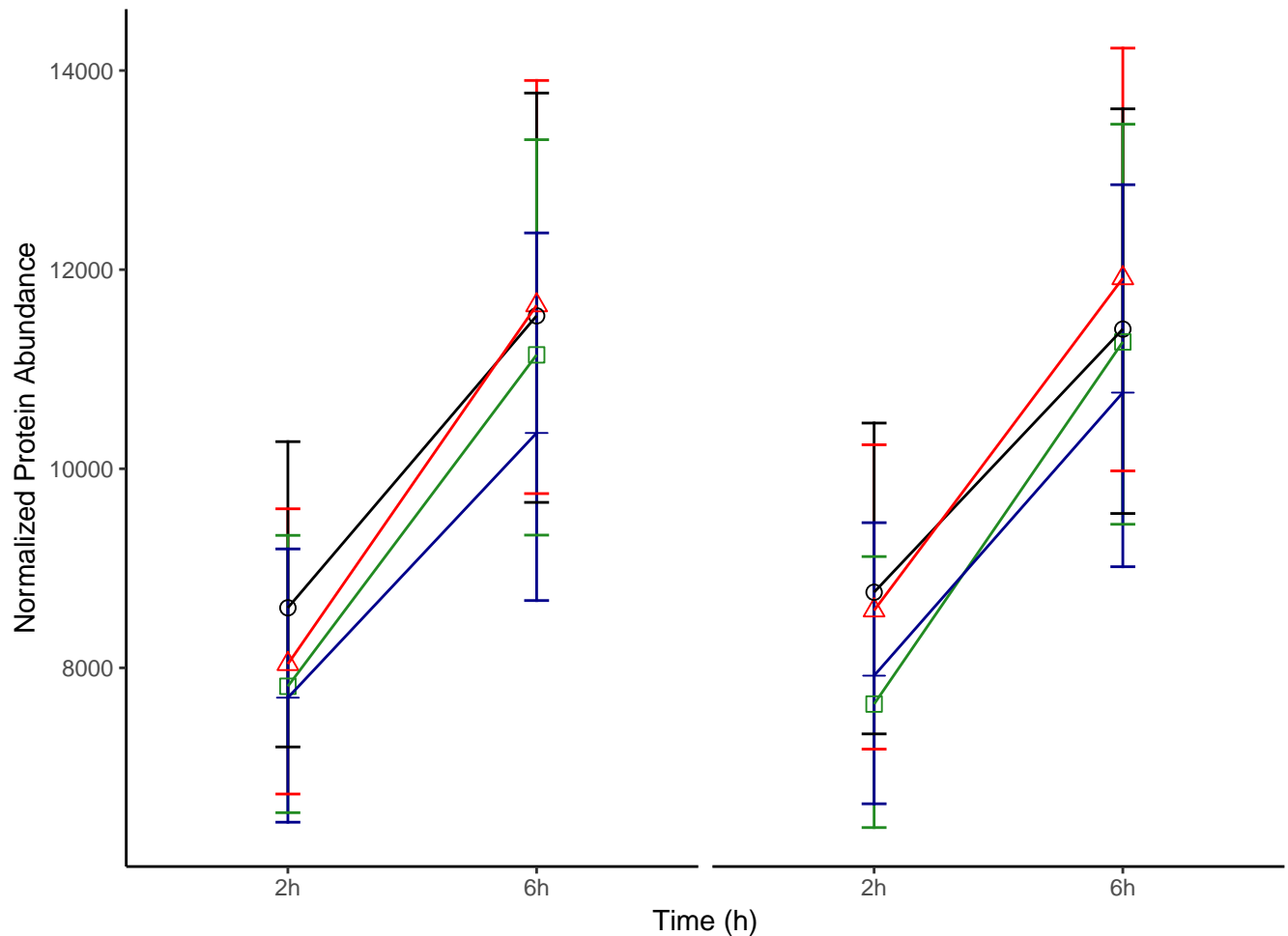


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR2\_STAAM

TSB

TSB-dex S-275

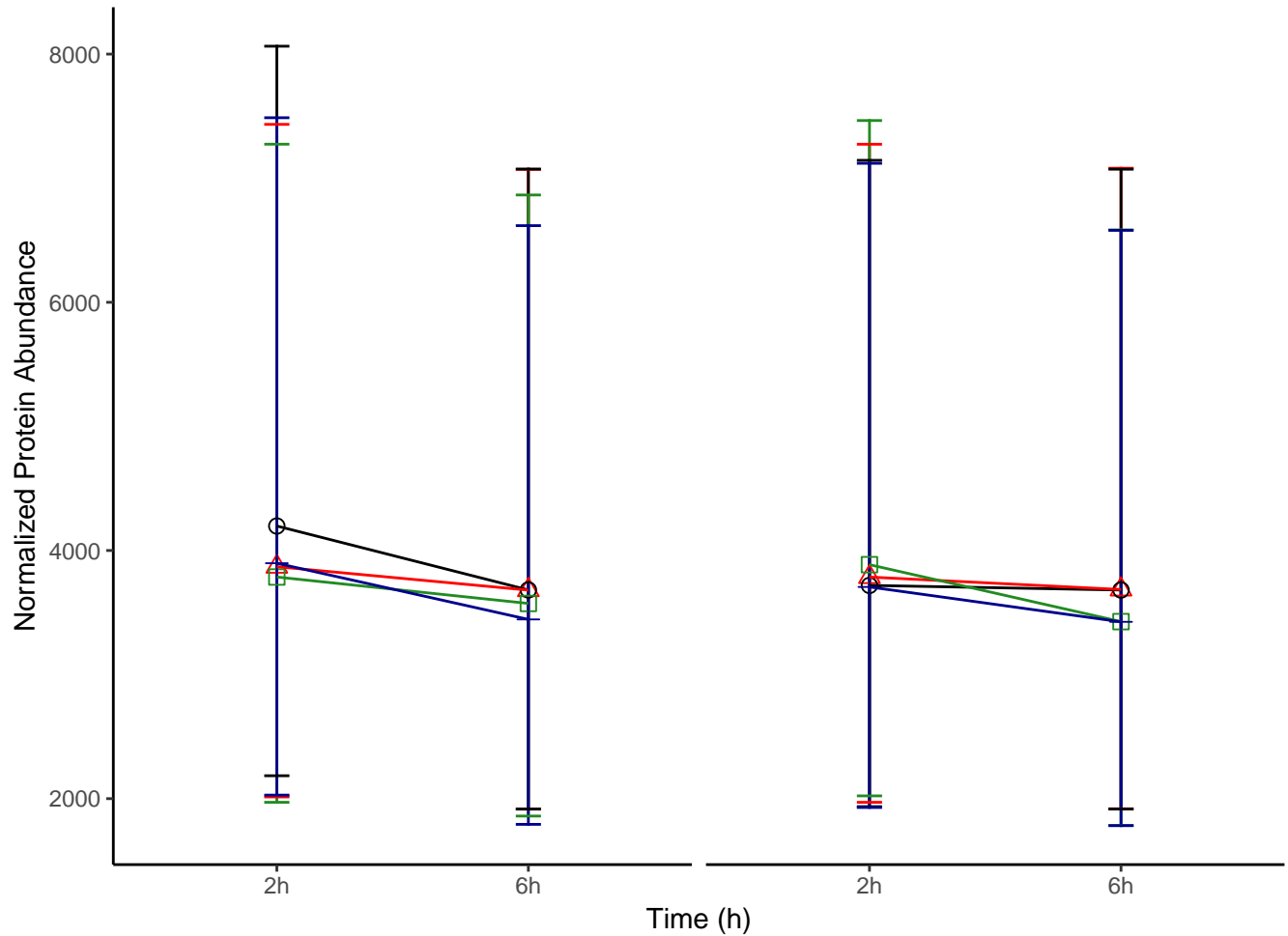


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PUR3\_STAAM

TSB

TSB-dex S-276

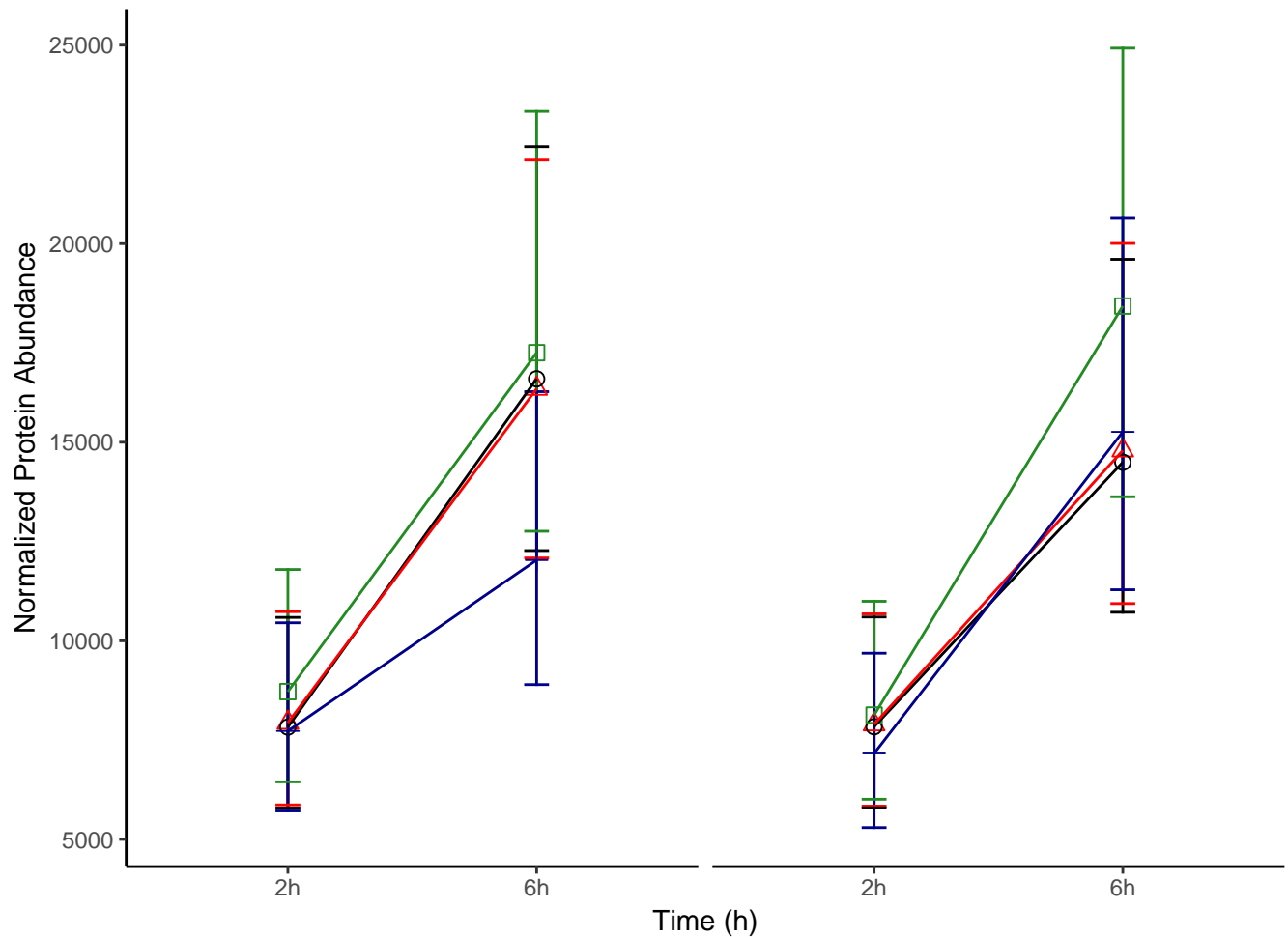


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR5\_STAAM

TSB

TSB-dex S-277

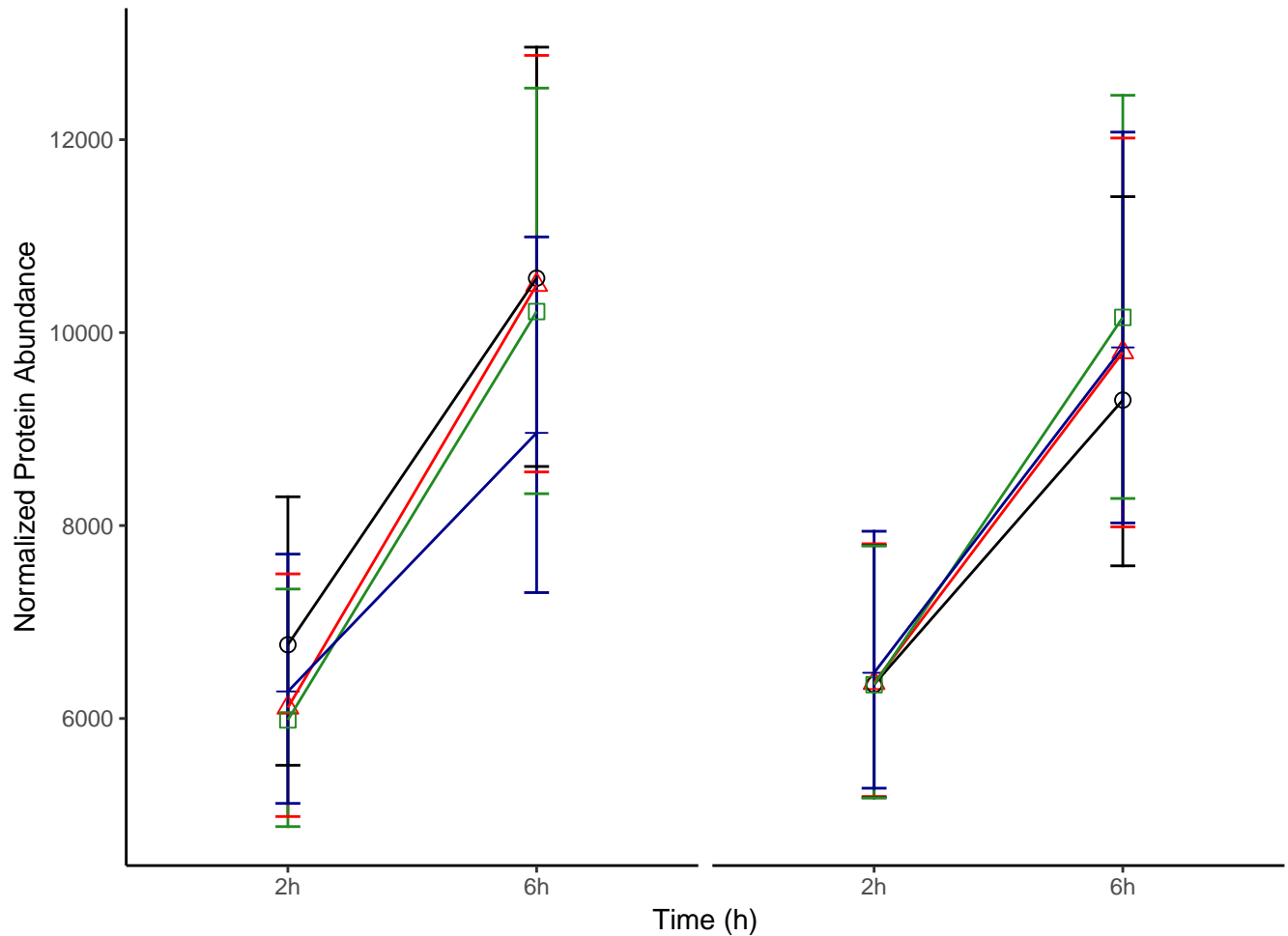


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PUR7\_STAAM

TSB

TSB-dex S-278

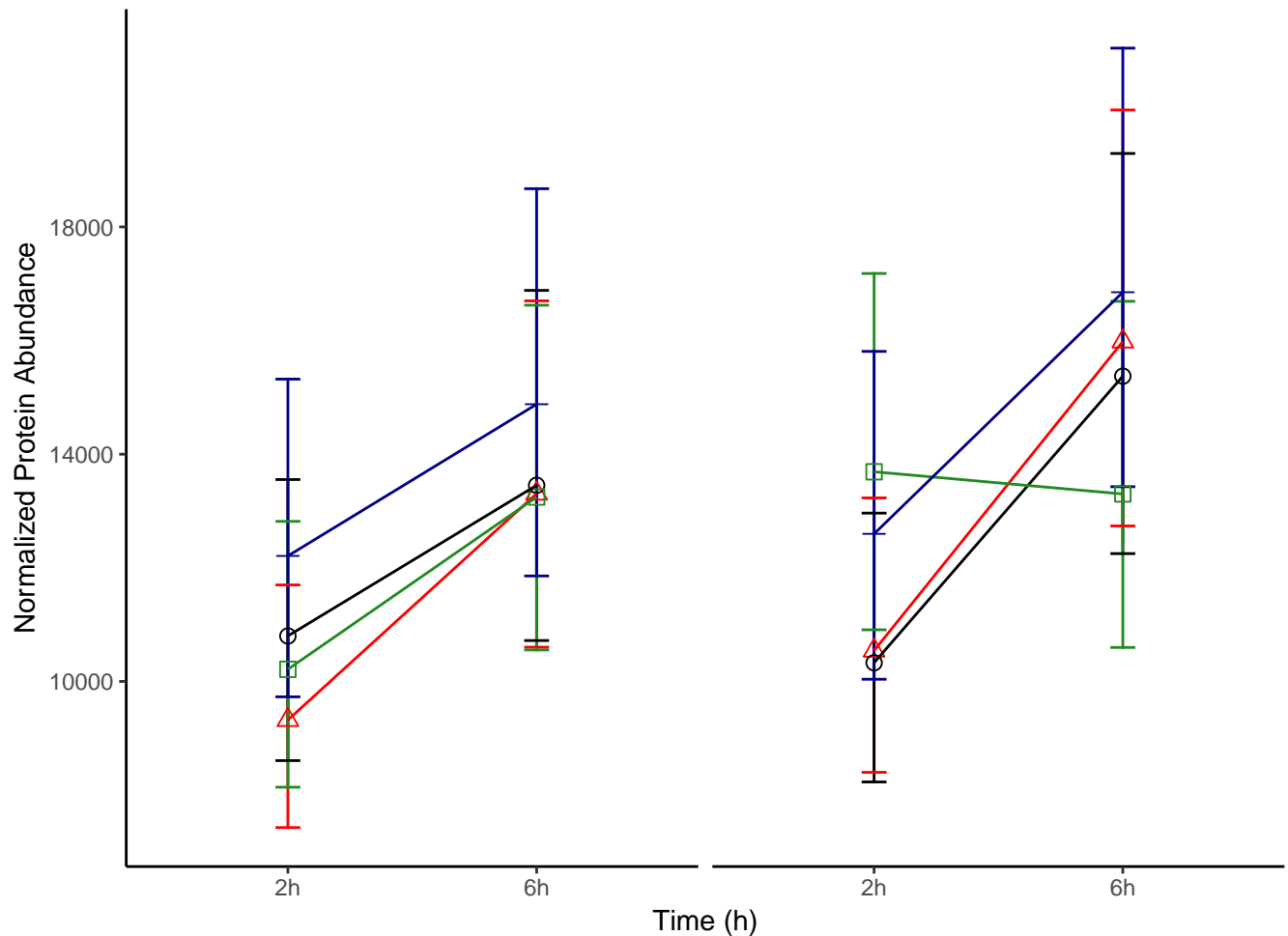


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR8\_STAAM

TSB

TSB-dex S-279



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PUR9\_STAAM

TSB

TSB-dex S-280

Normalized Protein Abundance

15000

10000

2h

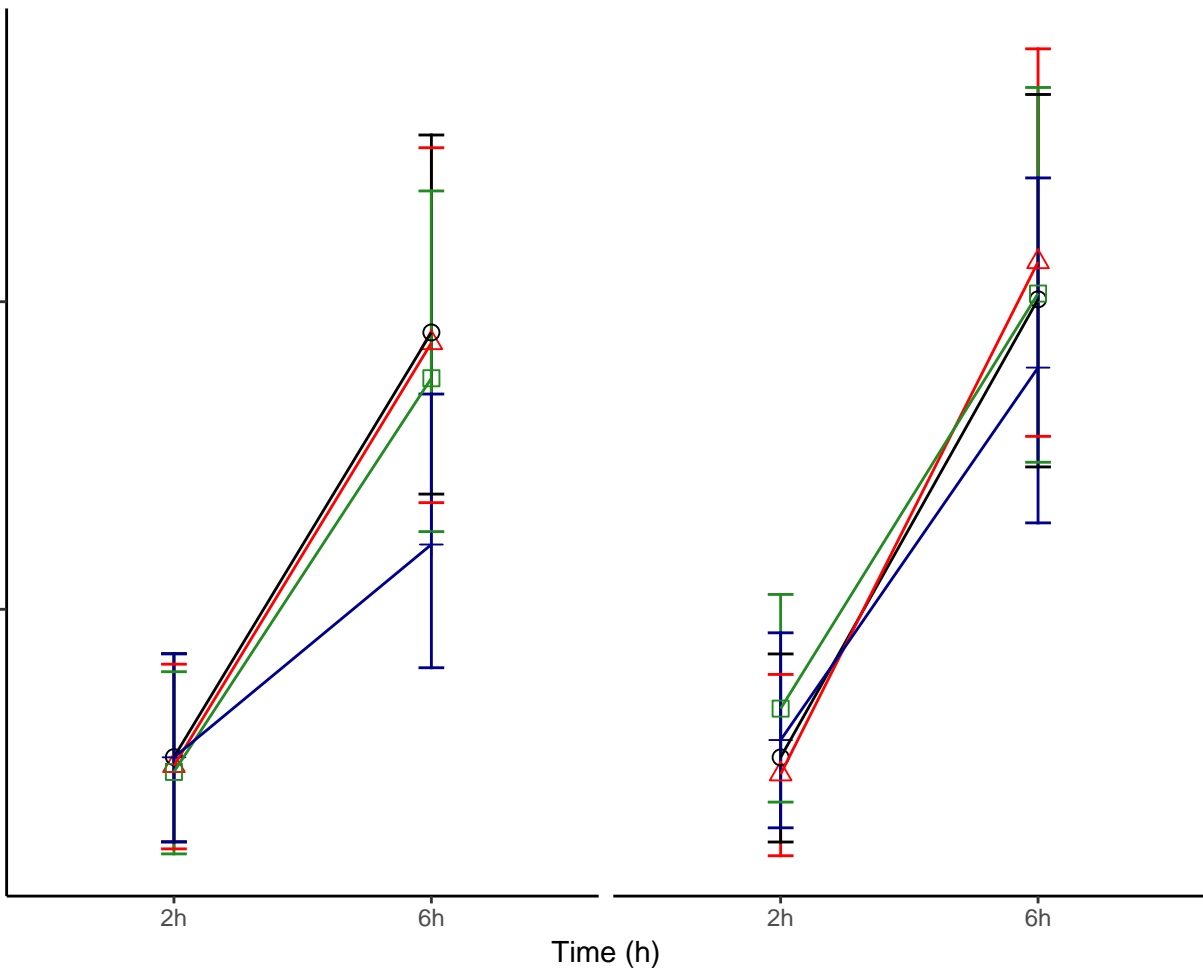
6h

Time (h)

2h

6h

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

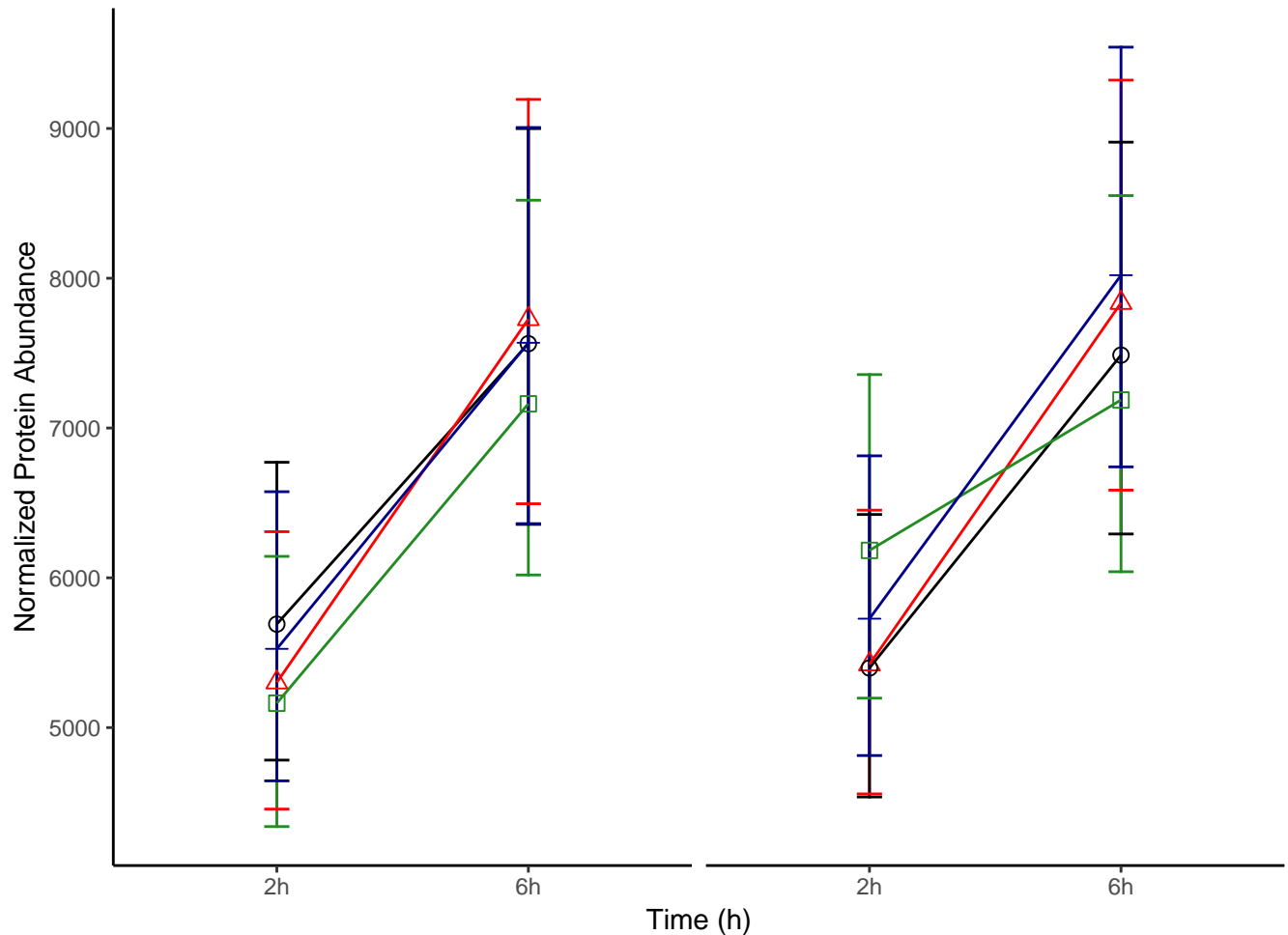




# PURA\_STAAM

TSB

TSB-dex S-281

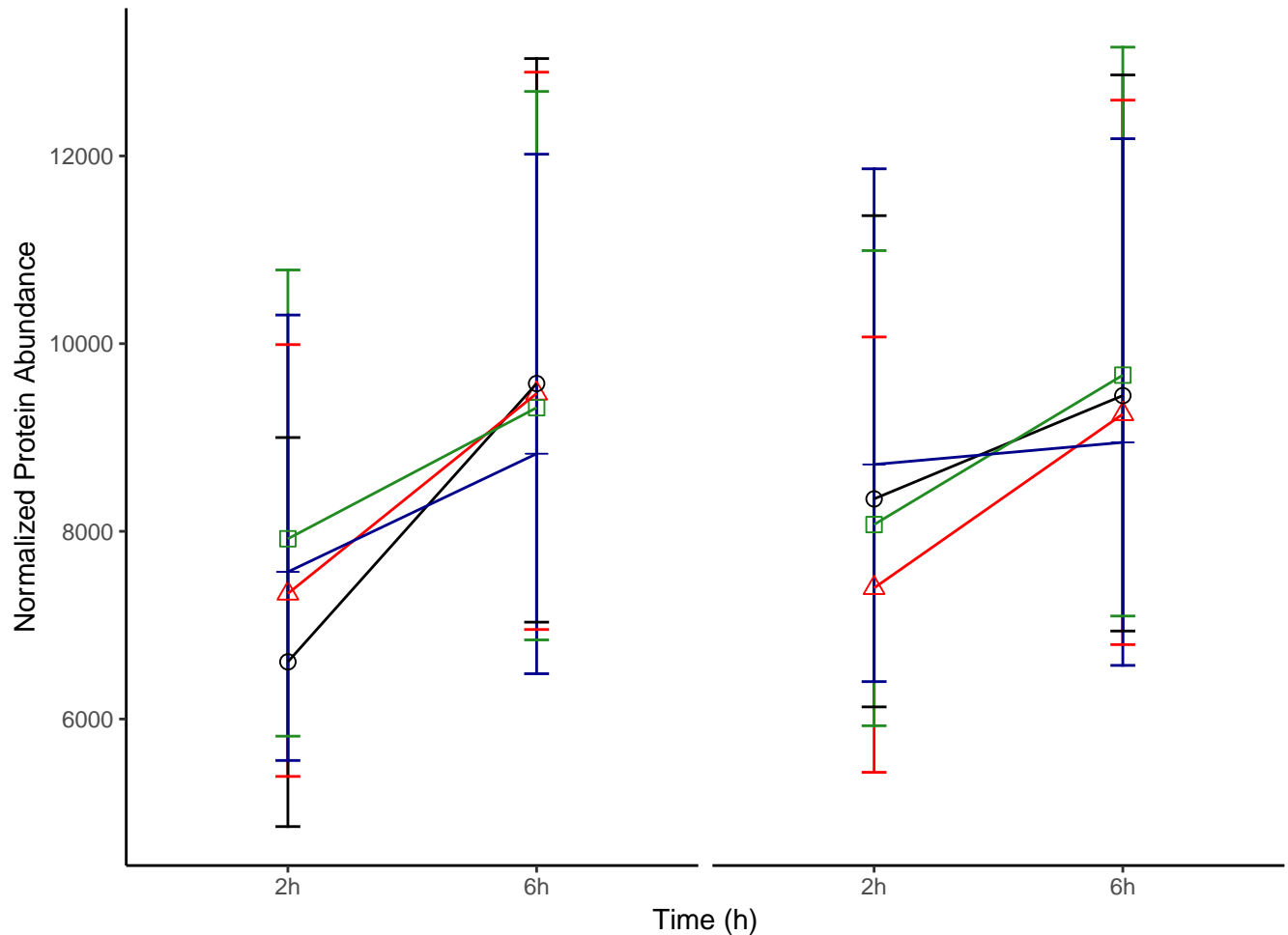


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PURK\_STAAM

TSB

TSB-dex S-282

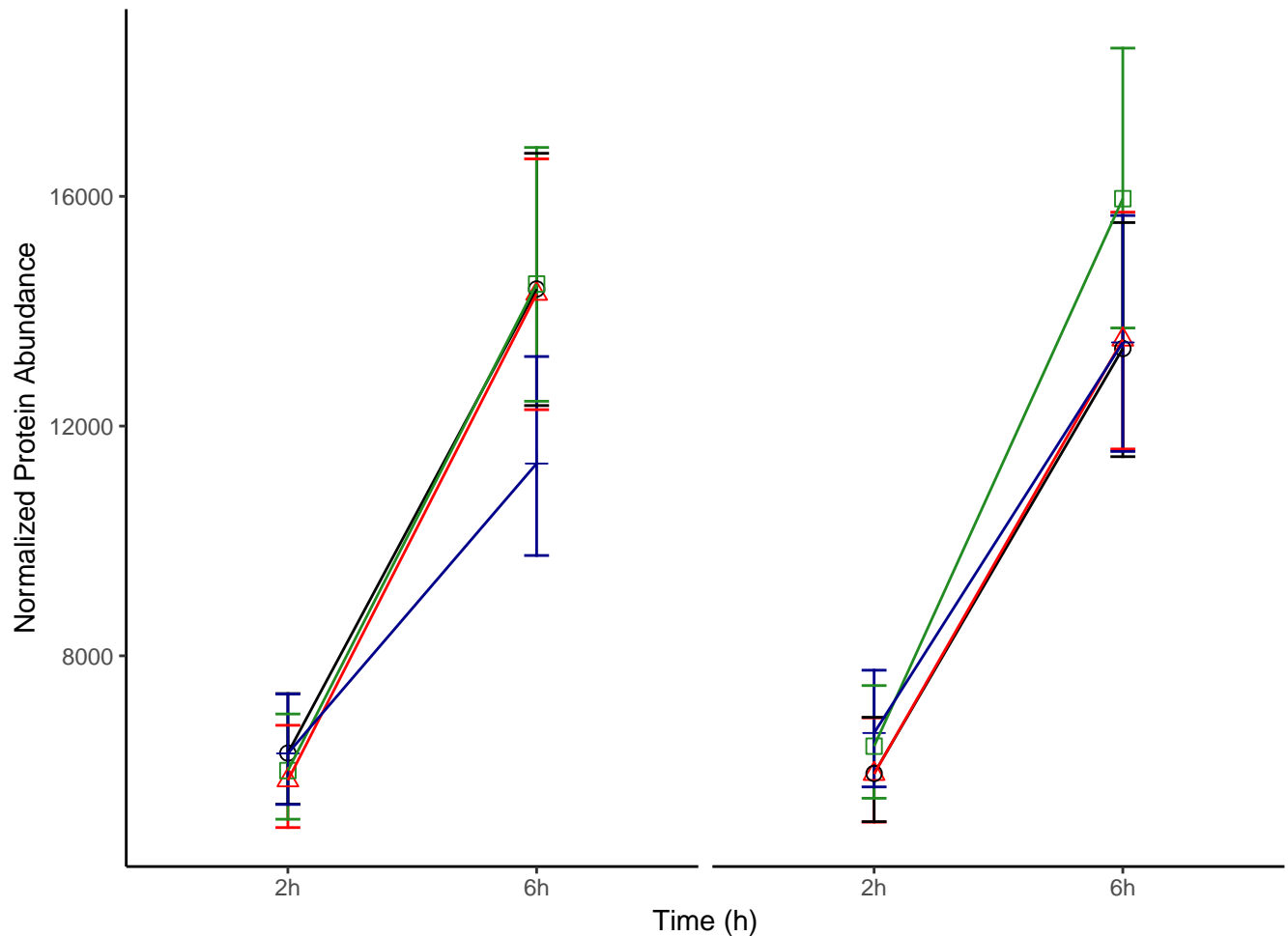


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PURL\_STAAM

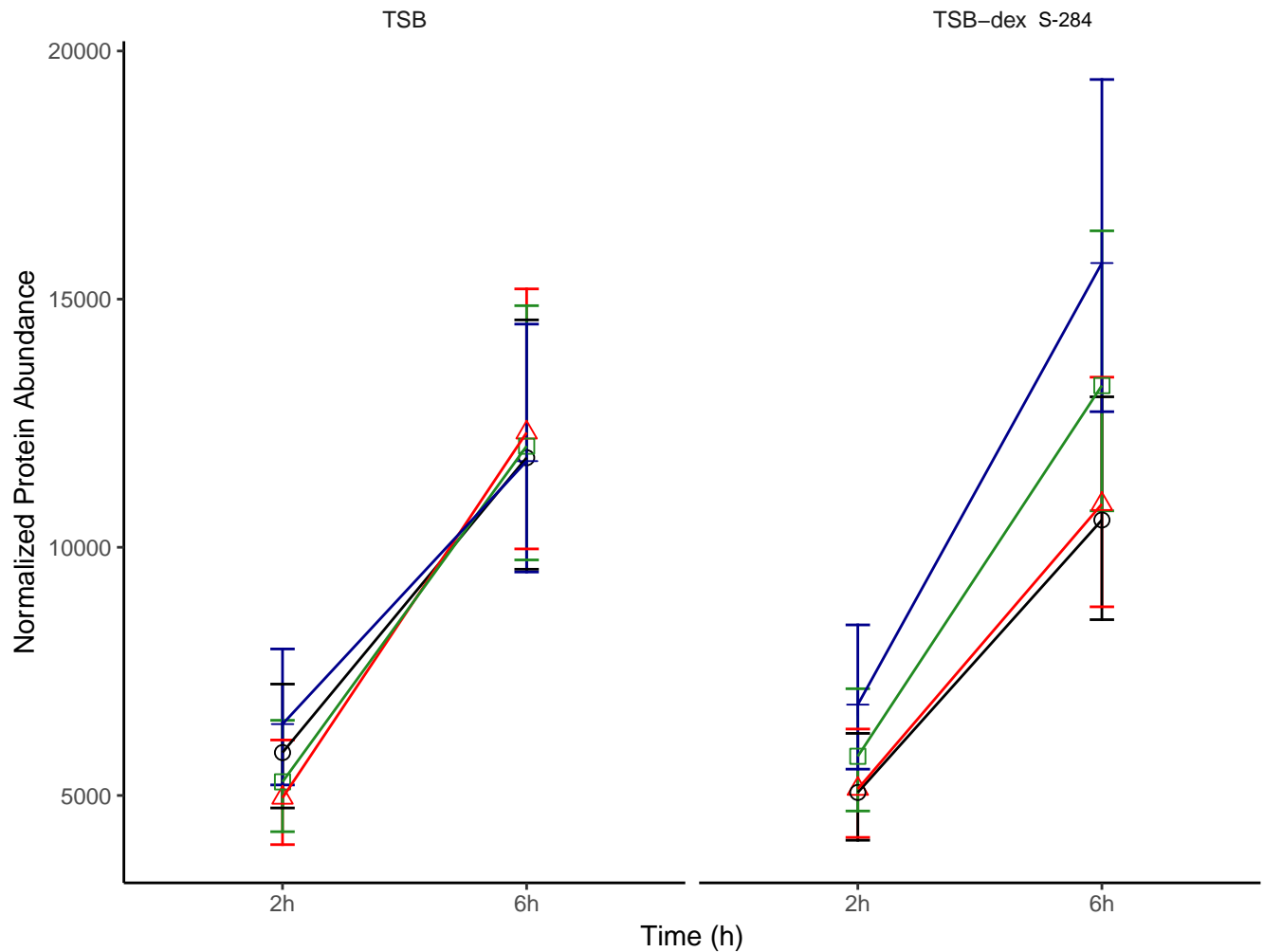
TSB

TSB-dex S-283



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PURQ\_STAAM

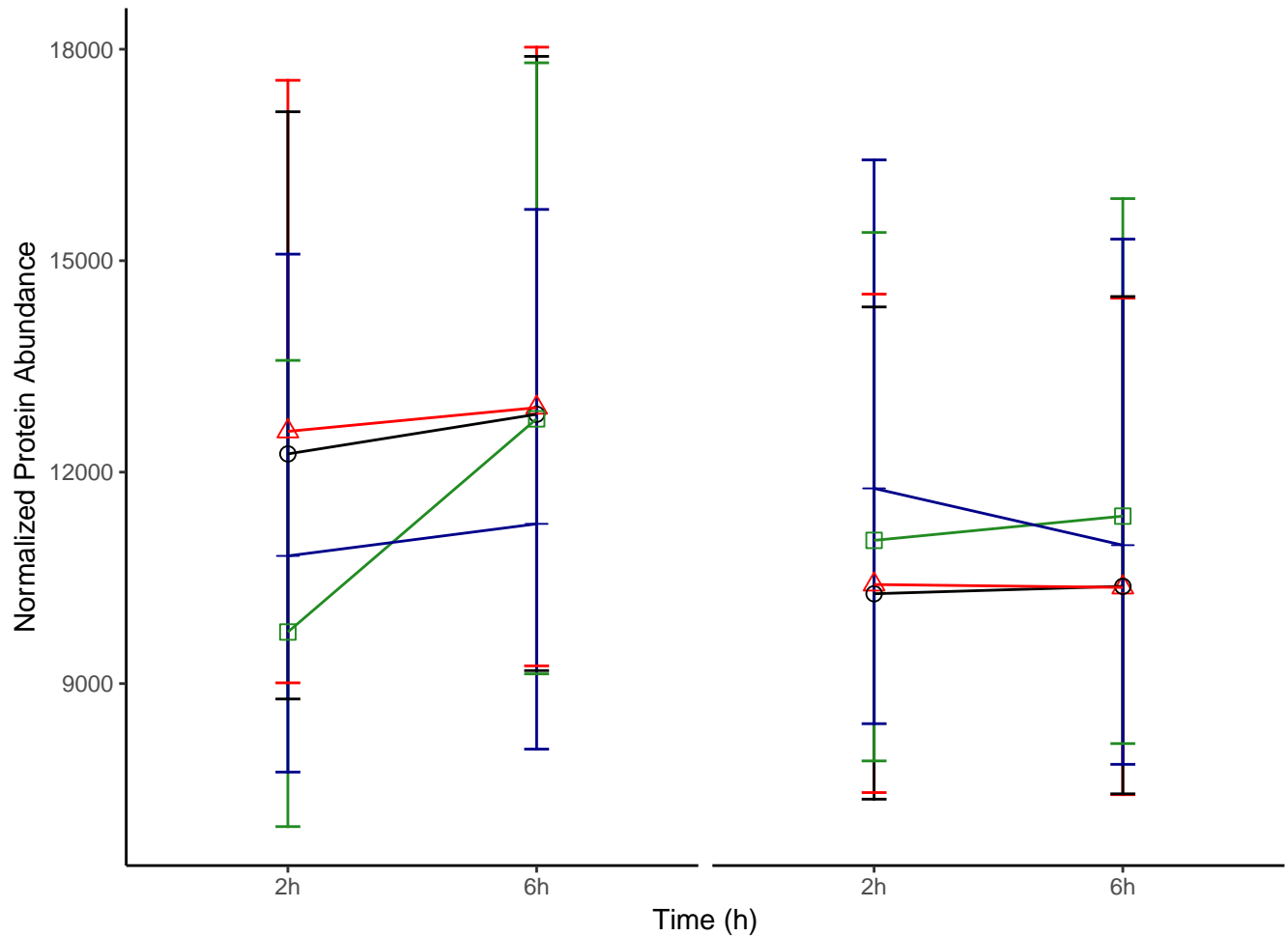


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PYRB\_STAAM

TSB

TSB-dex S-285

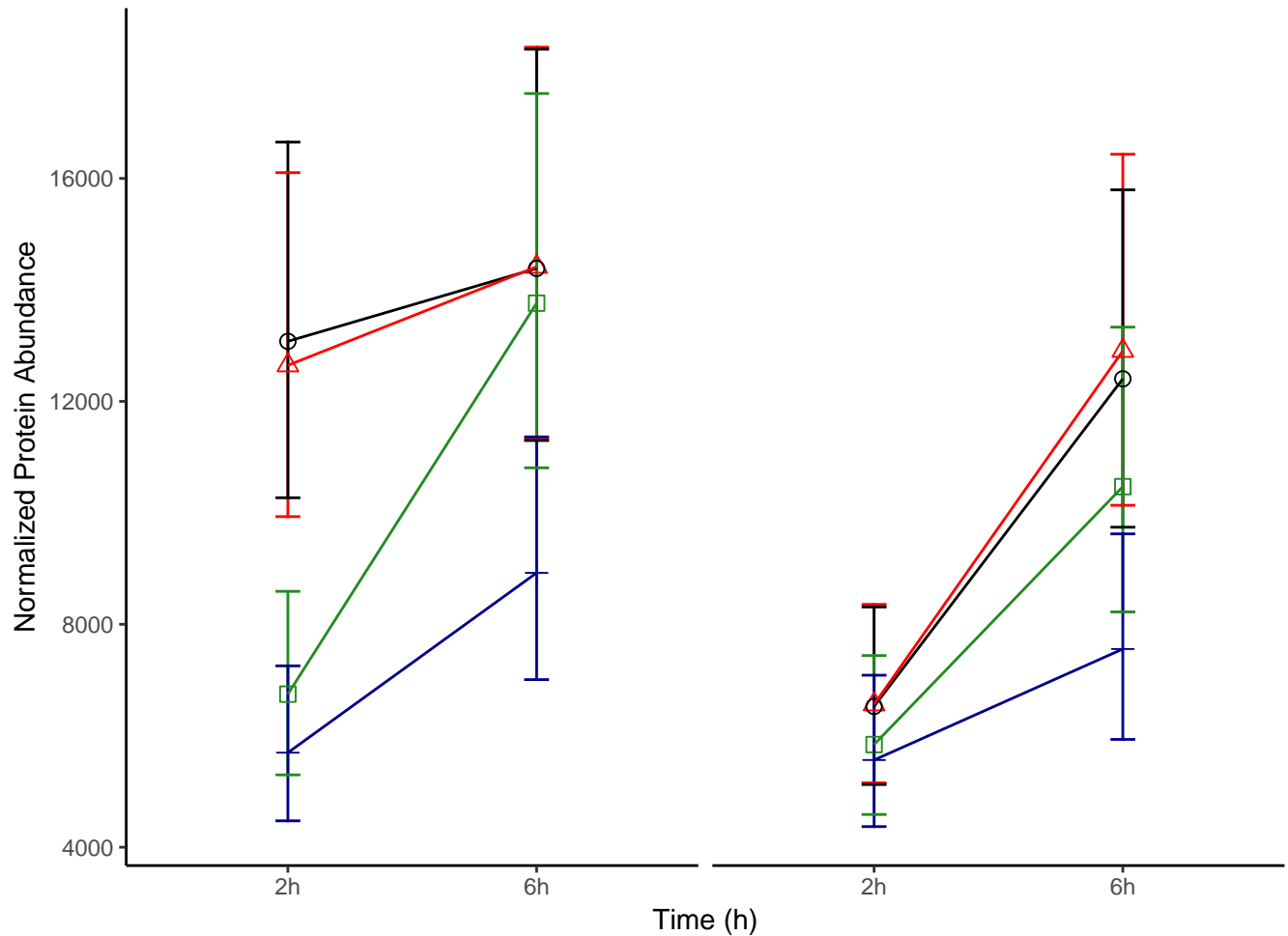


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRC\_STAAM

TSB

TSB-dex S-286

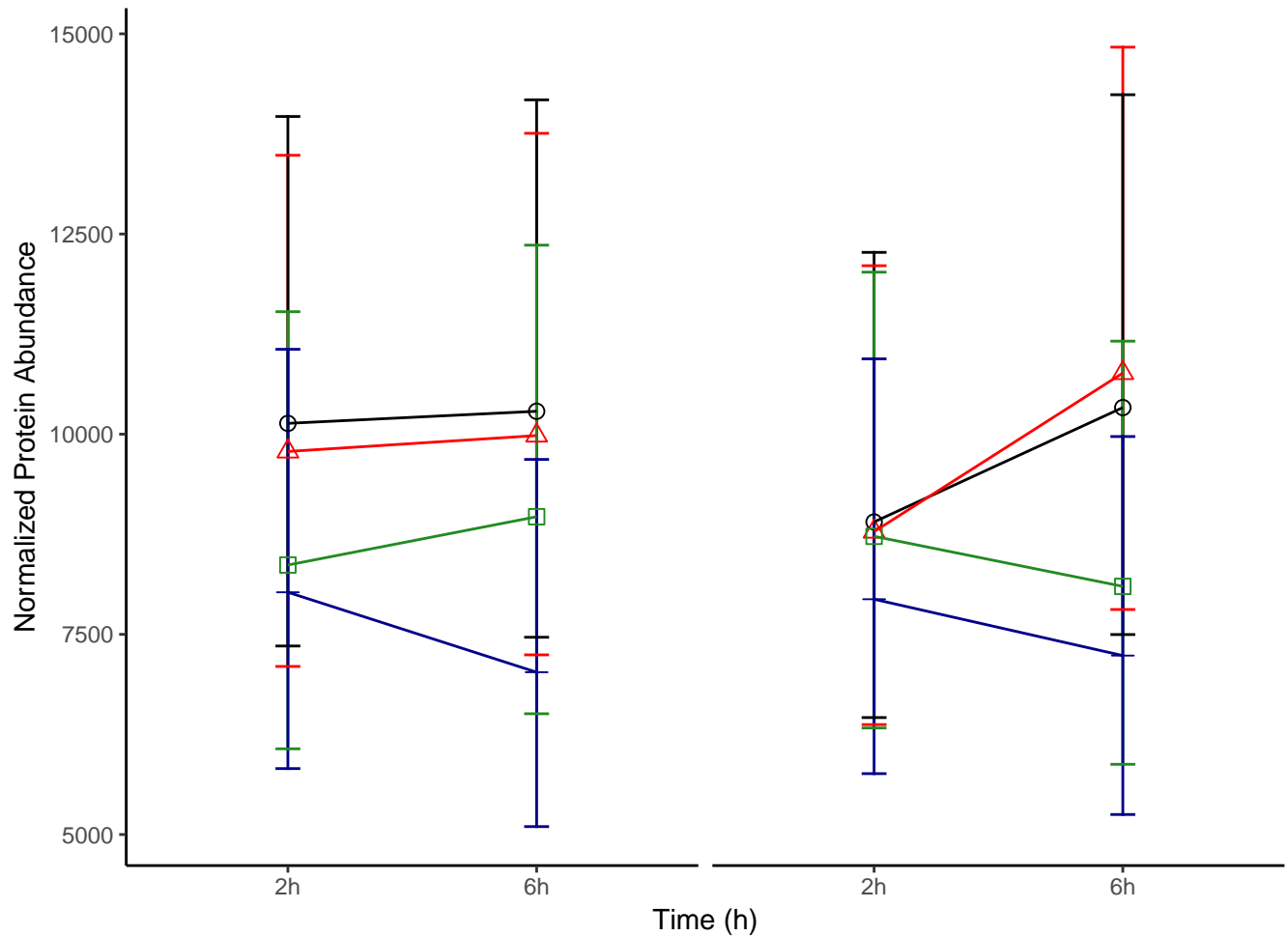


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRE\_STAAM

TSB

TSB-dex S-287

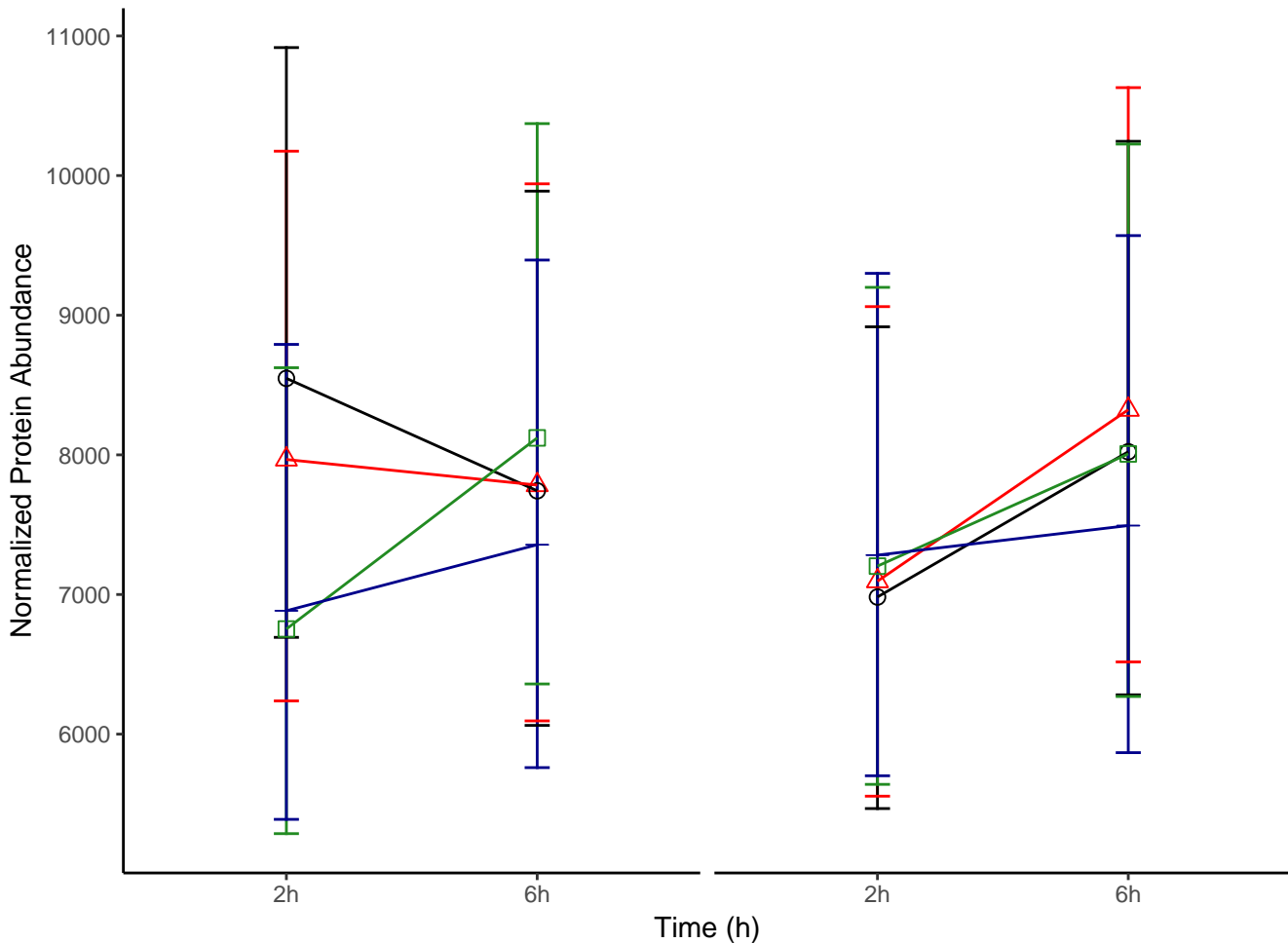


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRF\_STAAM

TSB

TSB-dex S-288



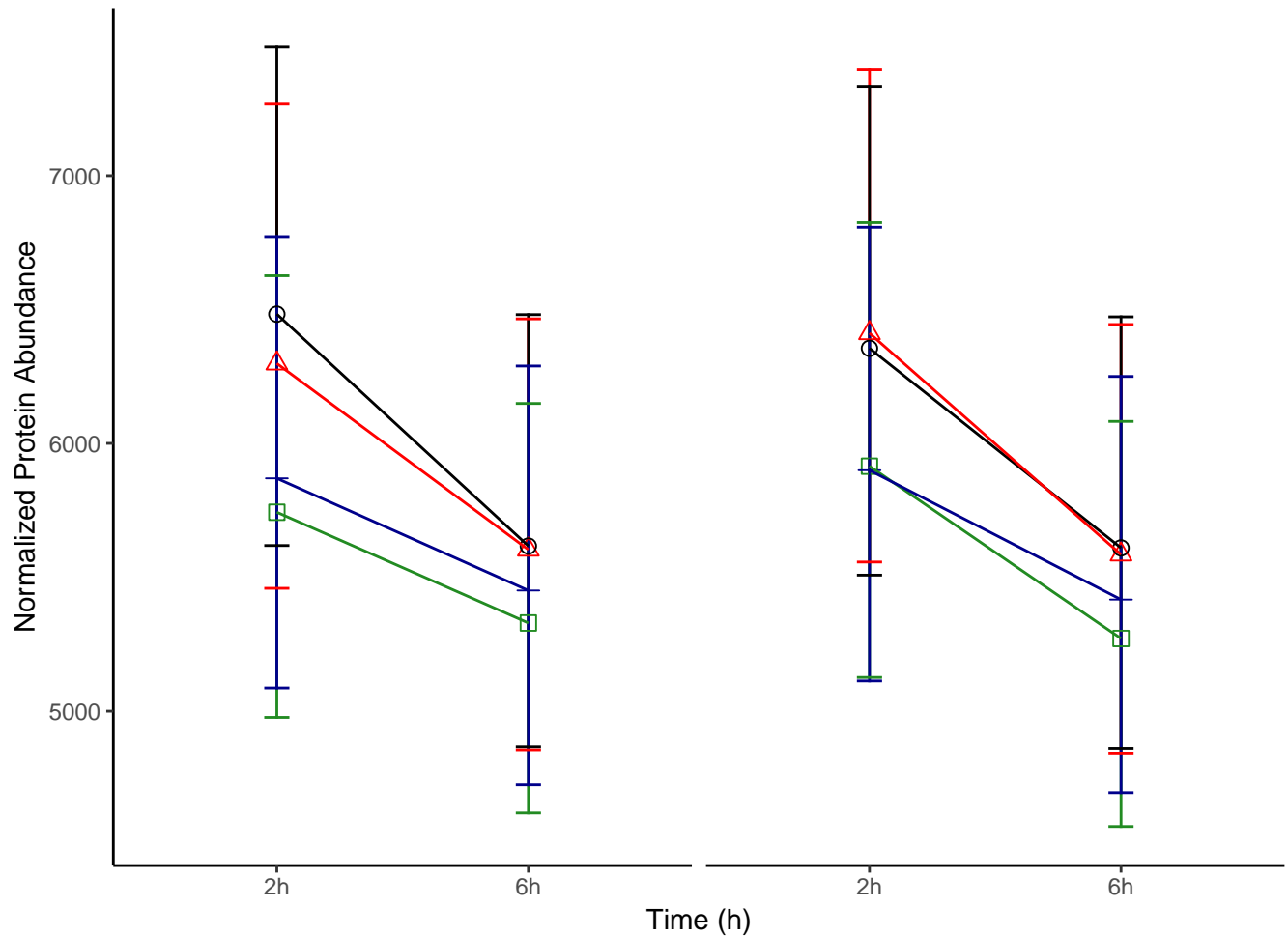
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PYRG\_STAAM

TSB

TSB-dex S-289

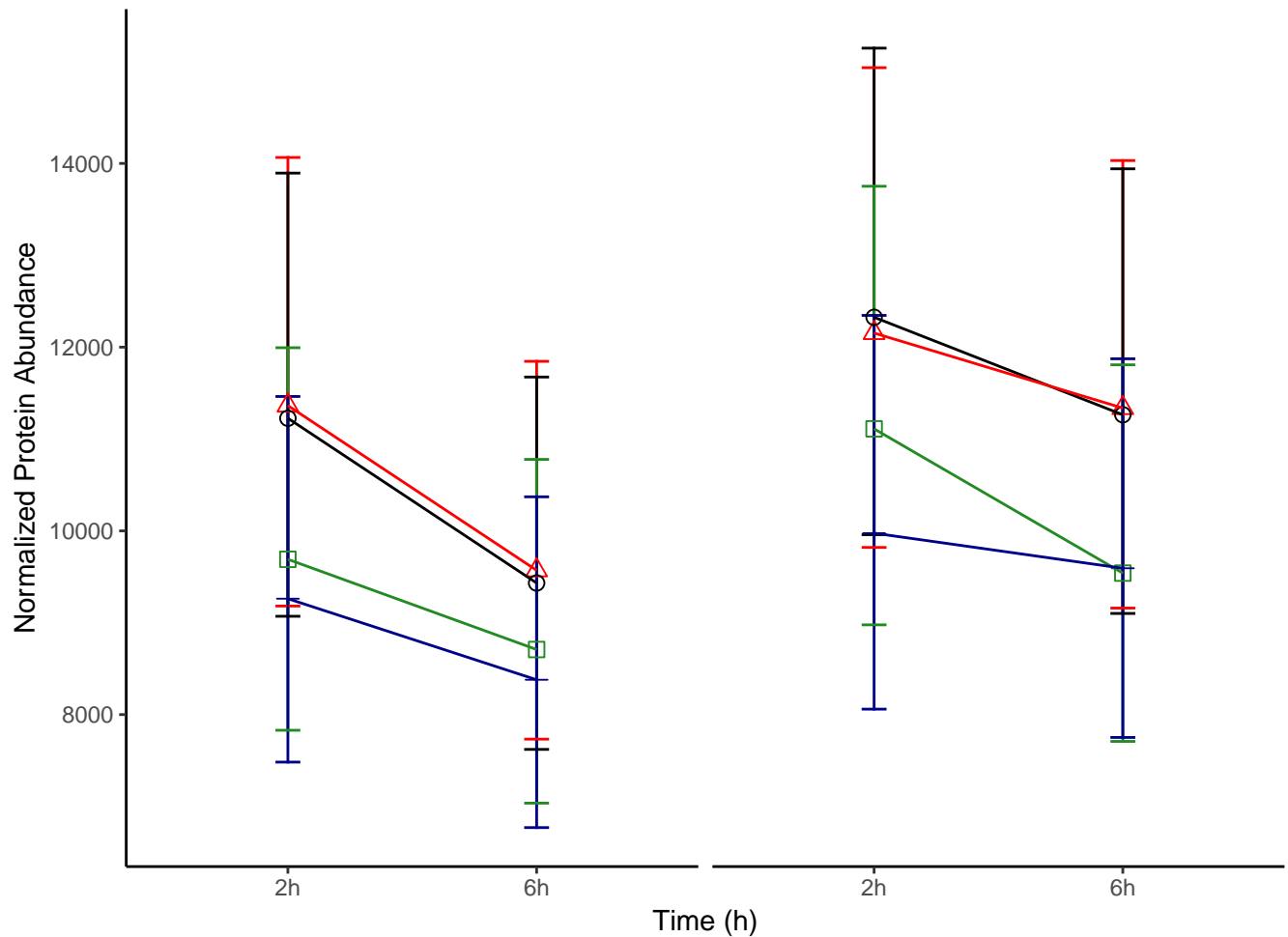


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PYRH\_STAAM

TSB

TSB-dex S-290

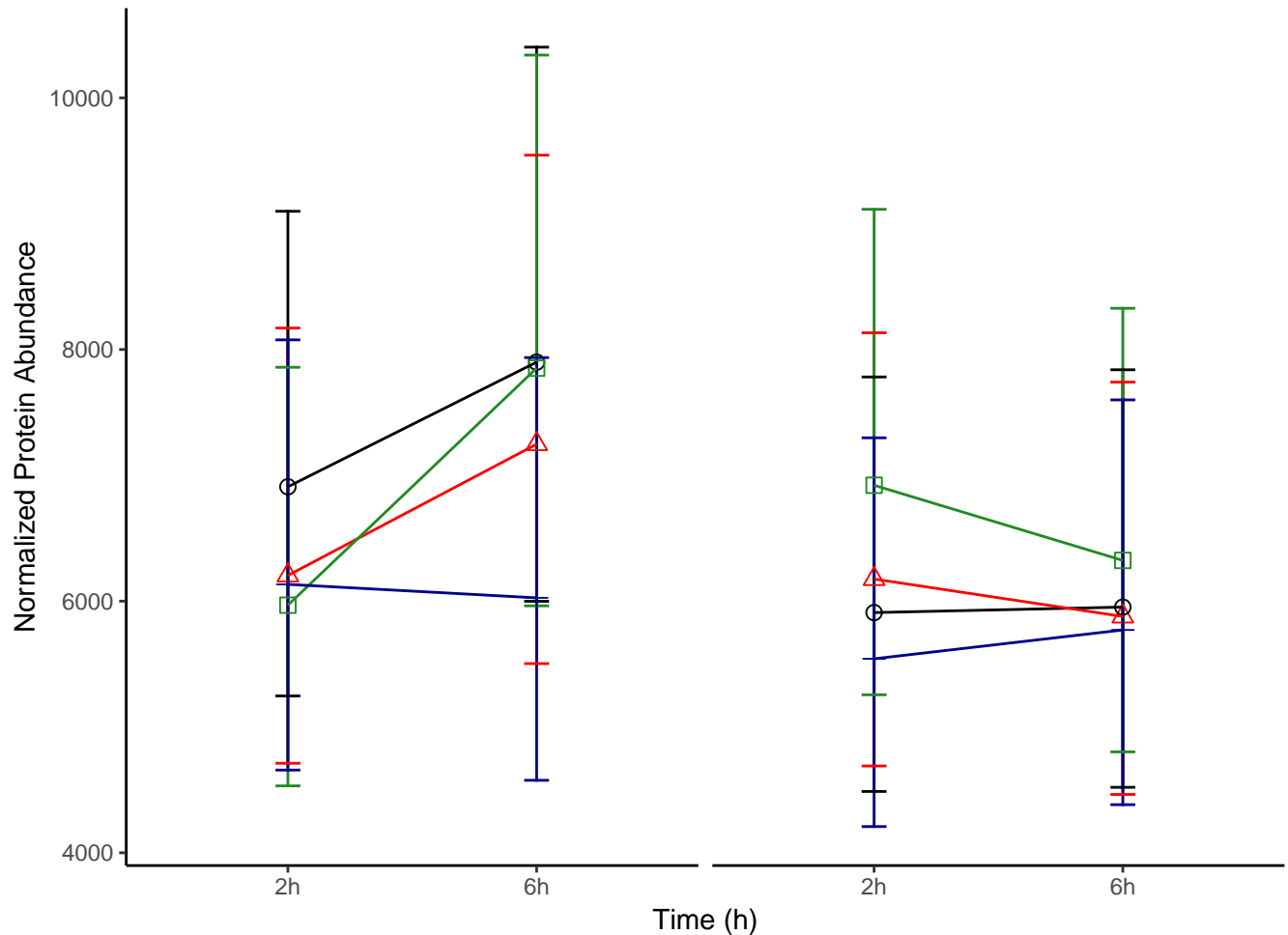


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PYRR\_STAAM

TSB

TSB-dex S-291

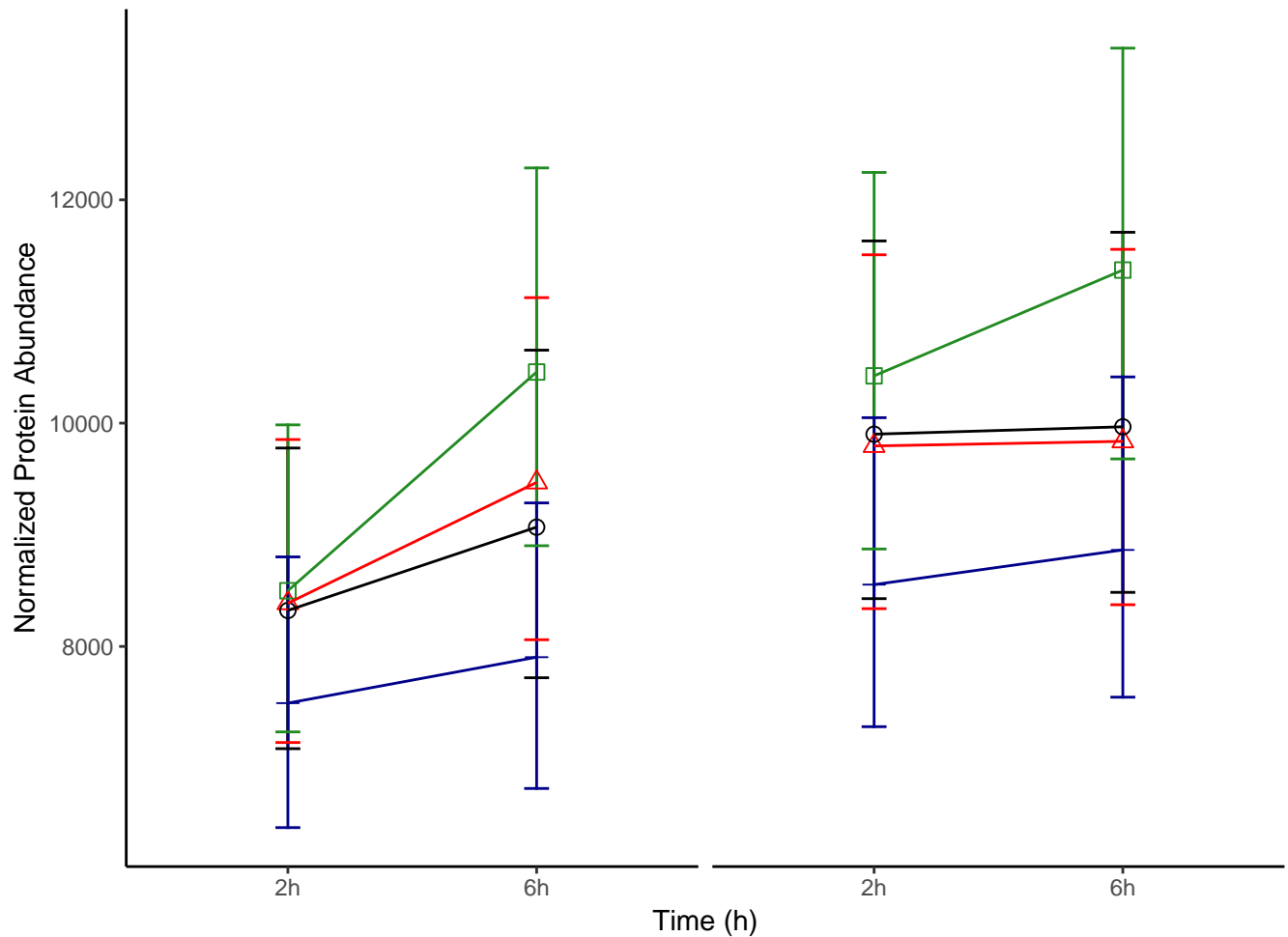


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# QOX2\_STAAM

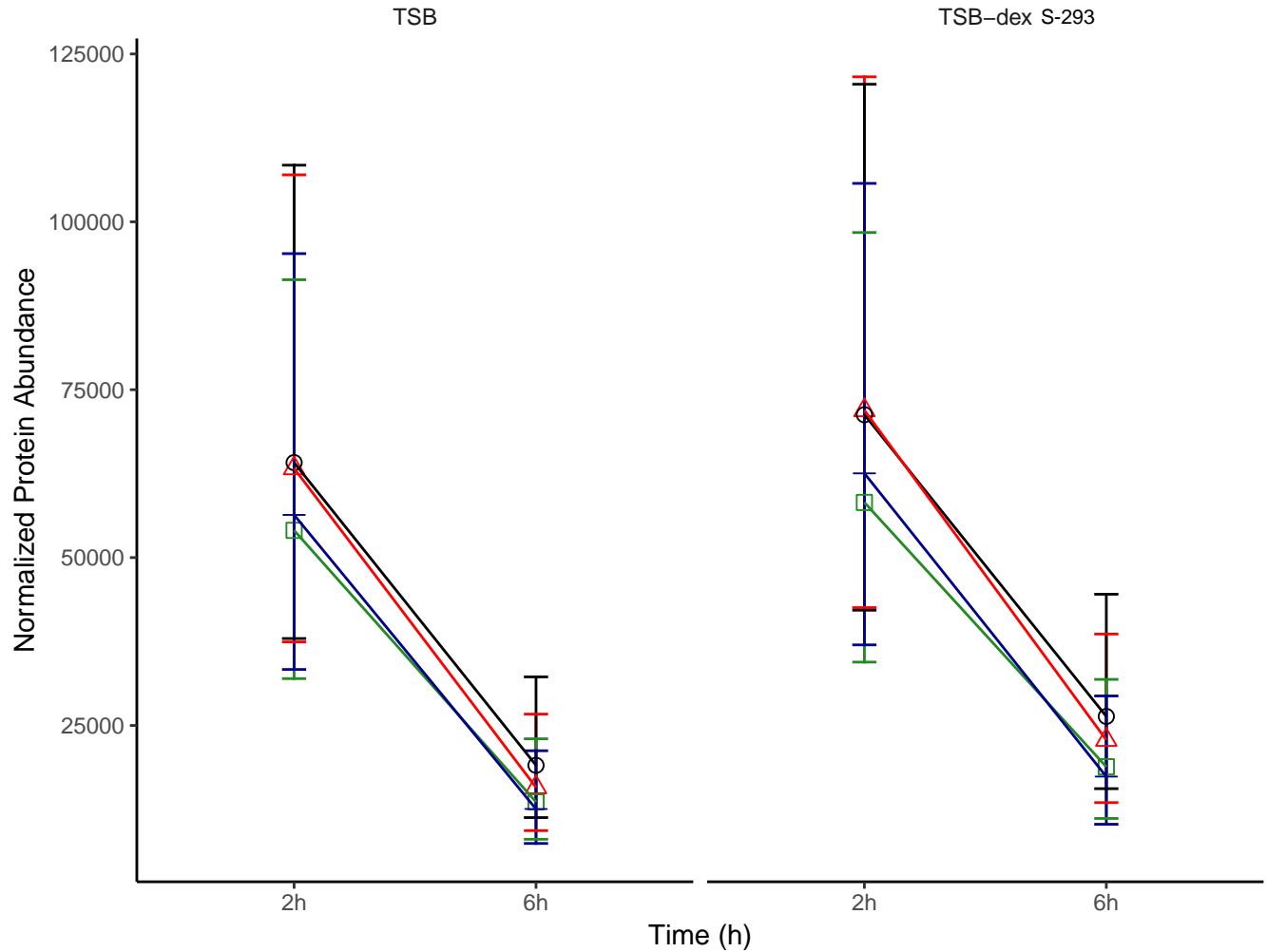
TSB

TSB-dex S-292



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# QUEA\_STAAM

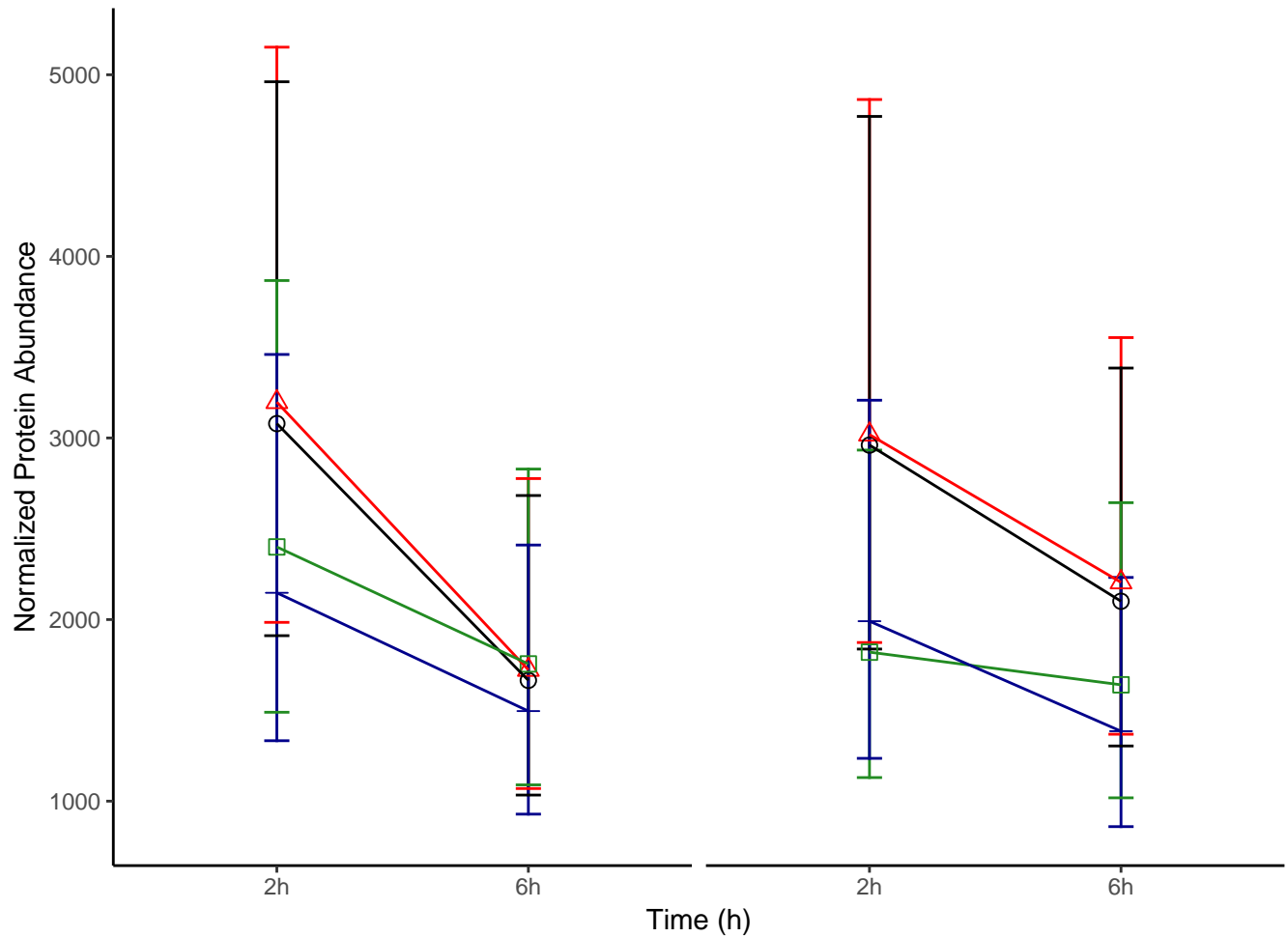


- SA564
  - △ SA564- $\Delta hptRS$
  - SA564- $\Delta ccpA$
  - +
- SA564- $\Delta hptRS/ccpA$

# QUEC\_STAAM

TSB

TSB-dex S-294

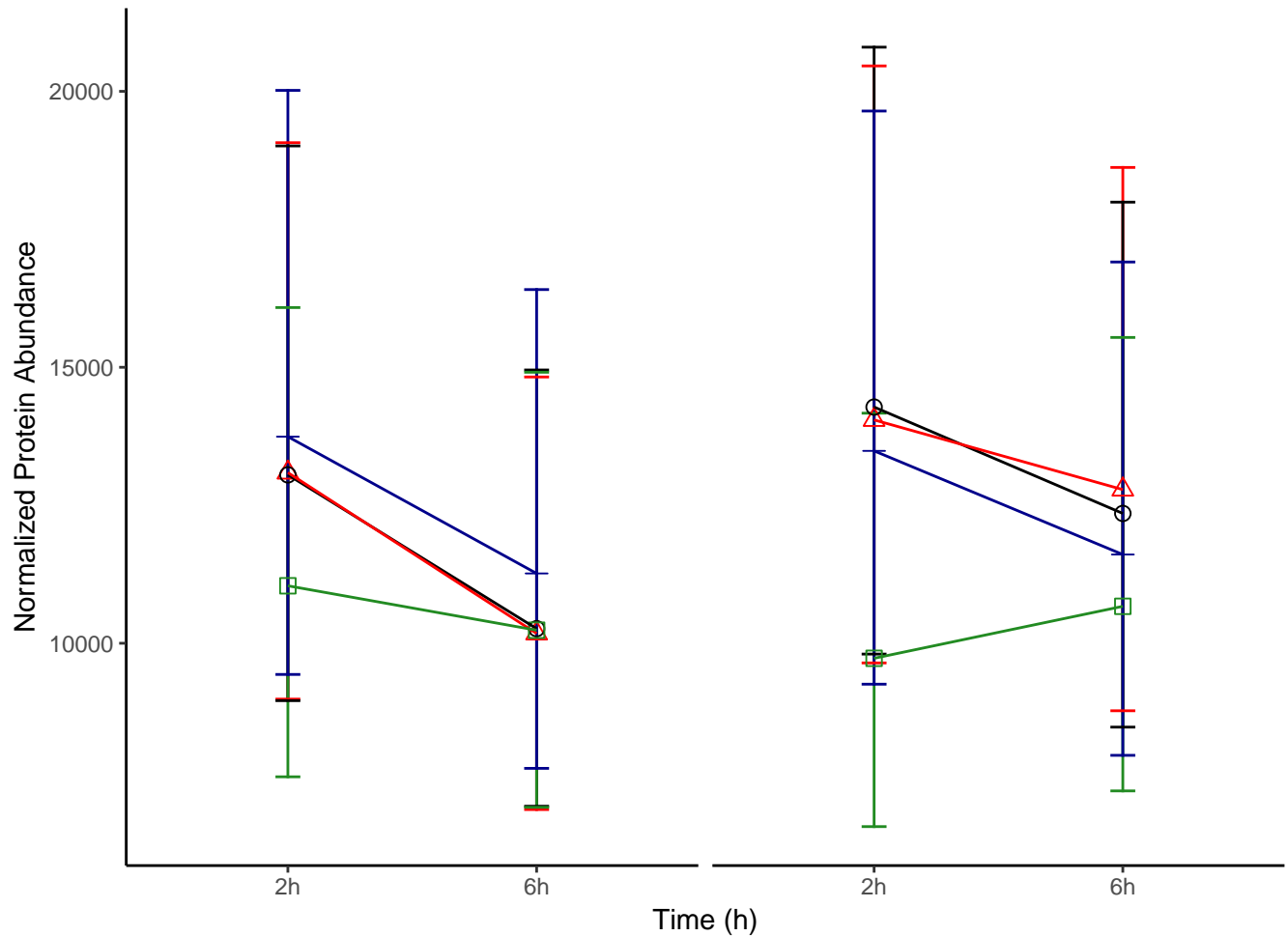


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RBFA\_STAAM

TSB

TSB-dex S-295

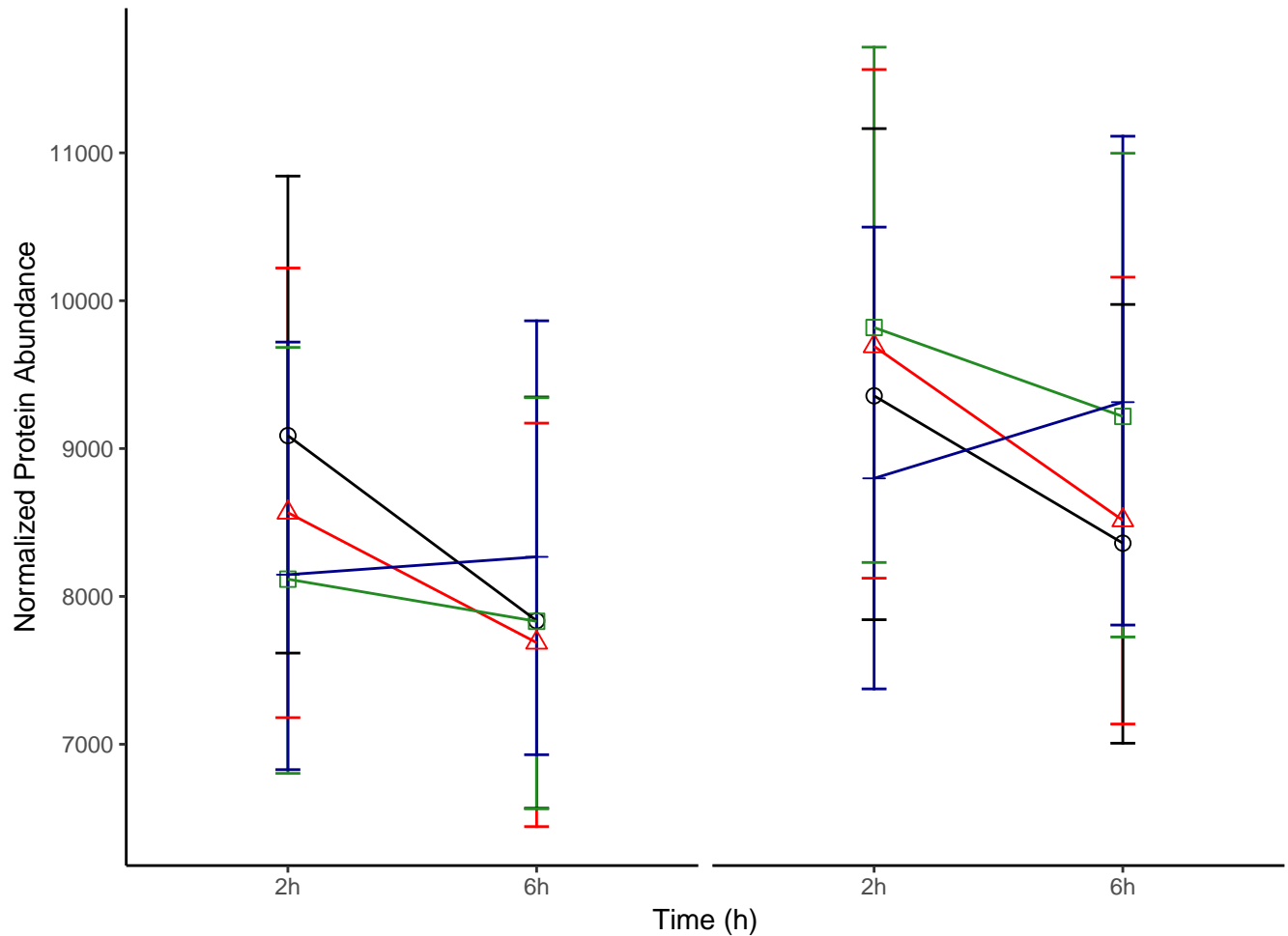


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RECA\_STAAM

TSB

TSB-dex S-296



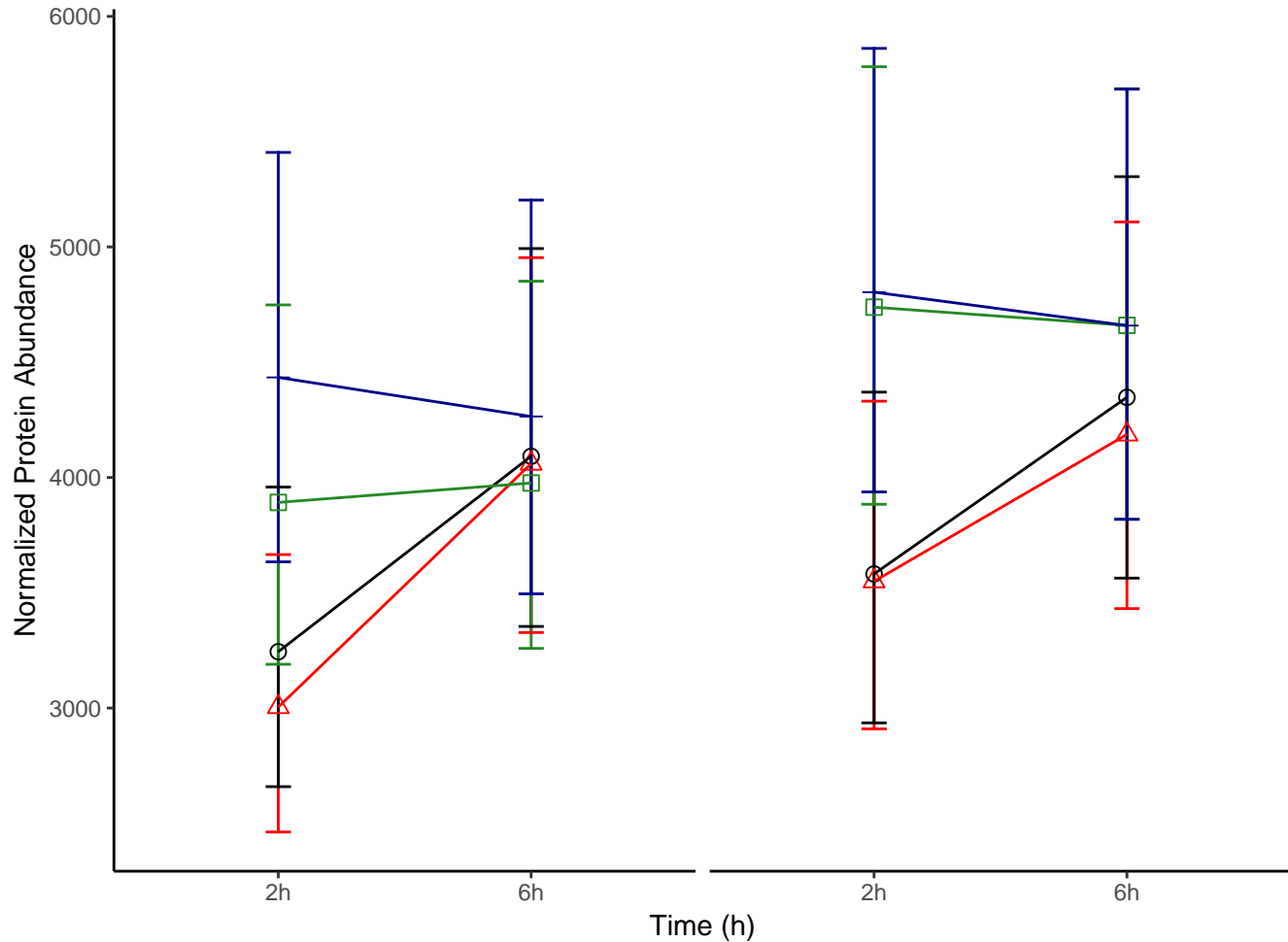
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# RELA\_STAAM

TSB

TSB-dex S-297

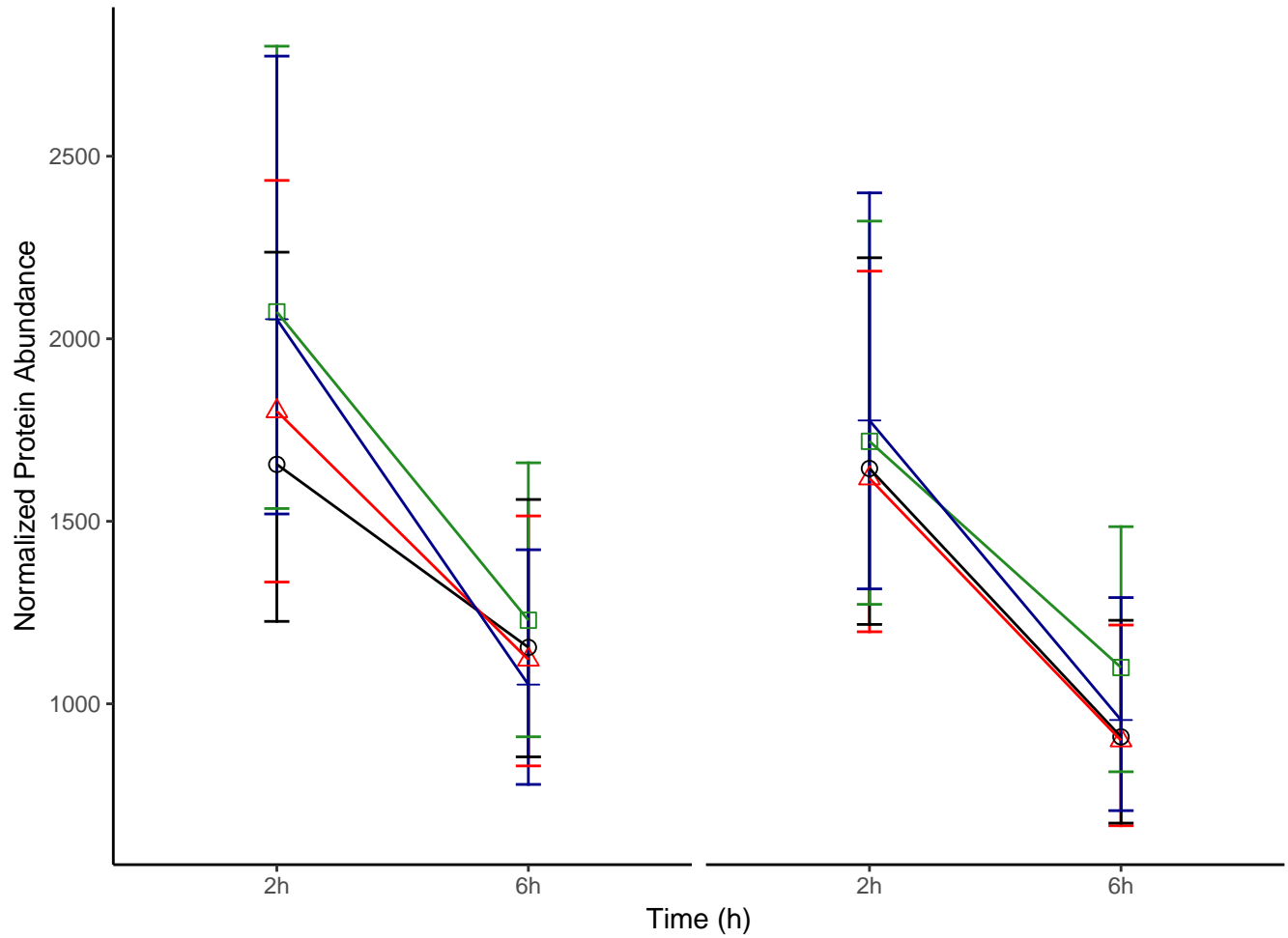


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# REX\_STAAM

TSB

TSB-dex S-298

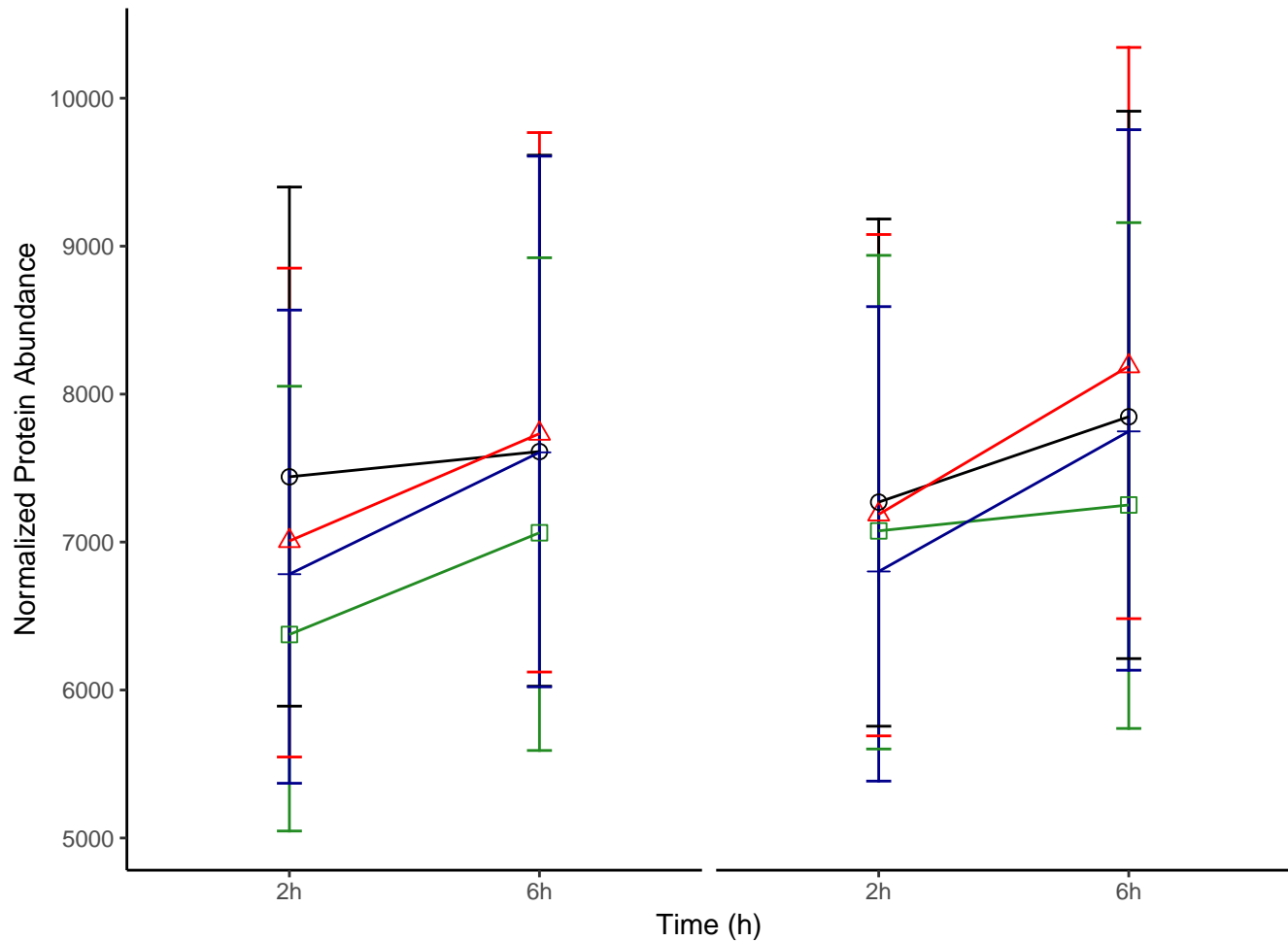


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## RF1\_STAAM

TSB

TSB-dex S-299

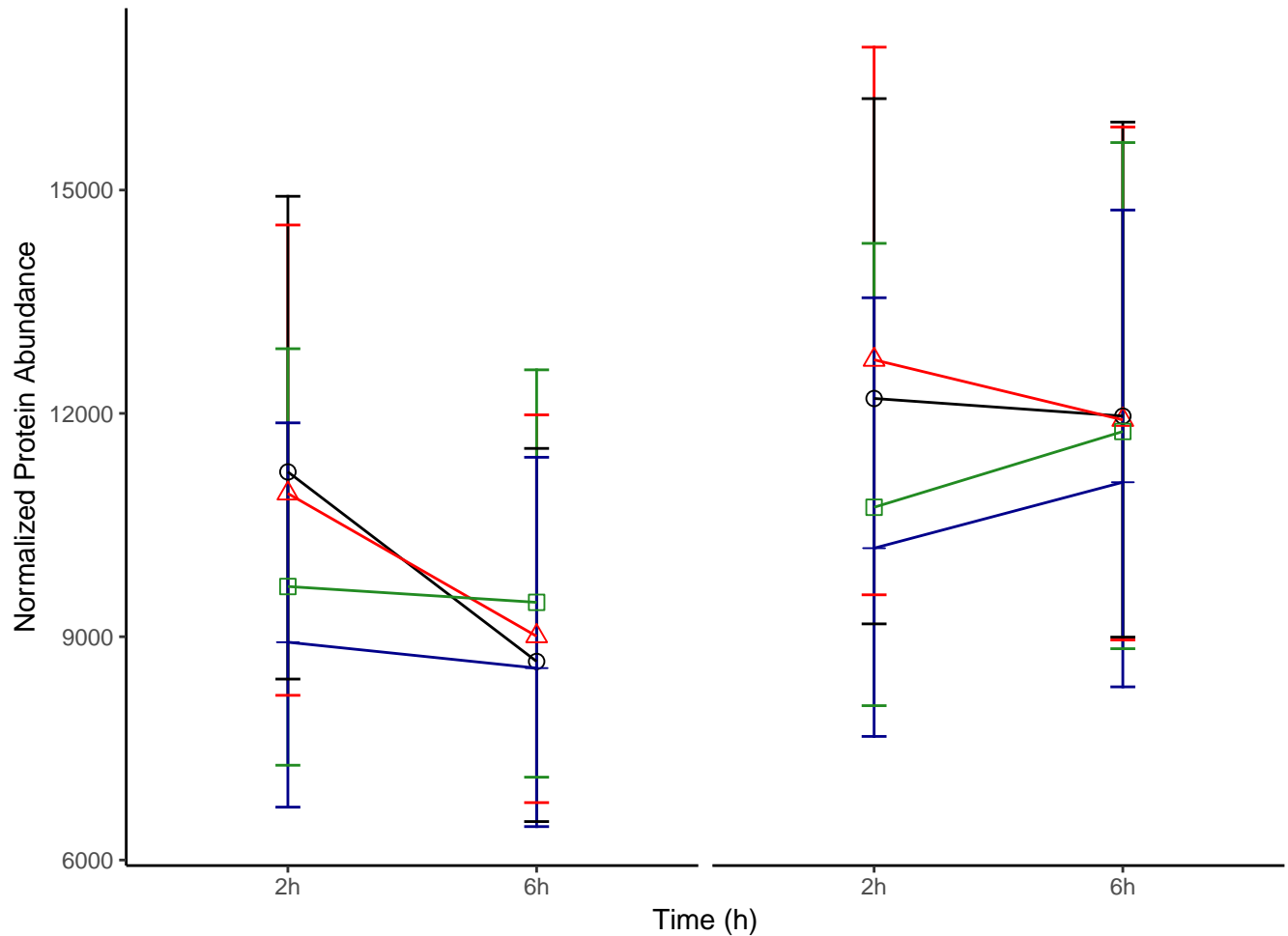


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RIBBA\_STAAM

TSB

TSB-dex S-300

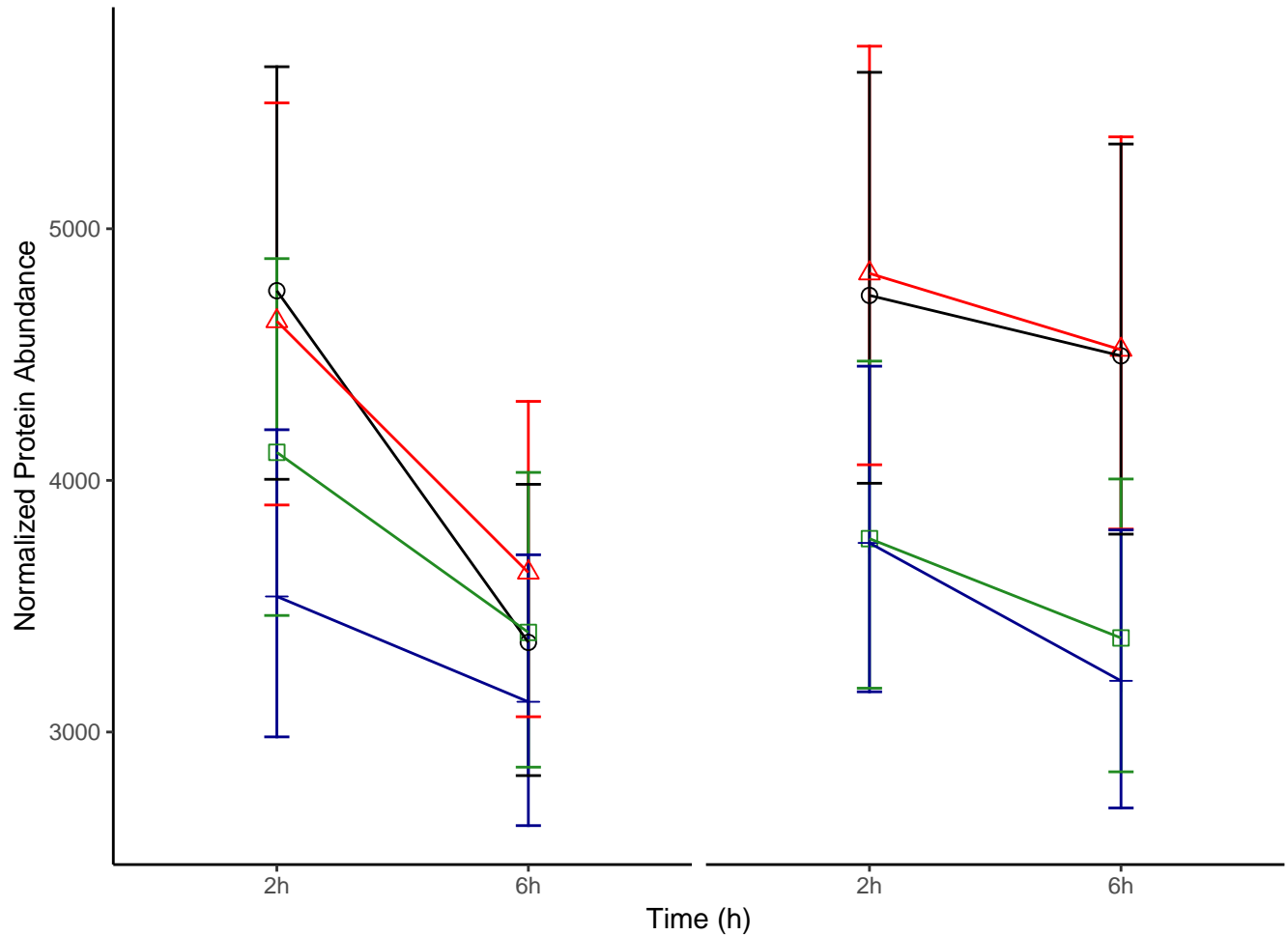


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RIMM\_STAAM

TSB

TSB-dex S-301

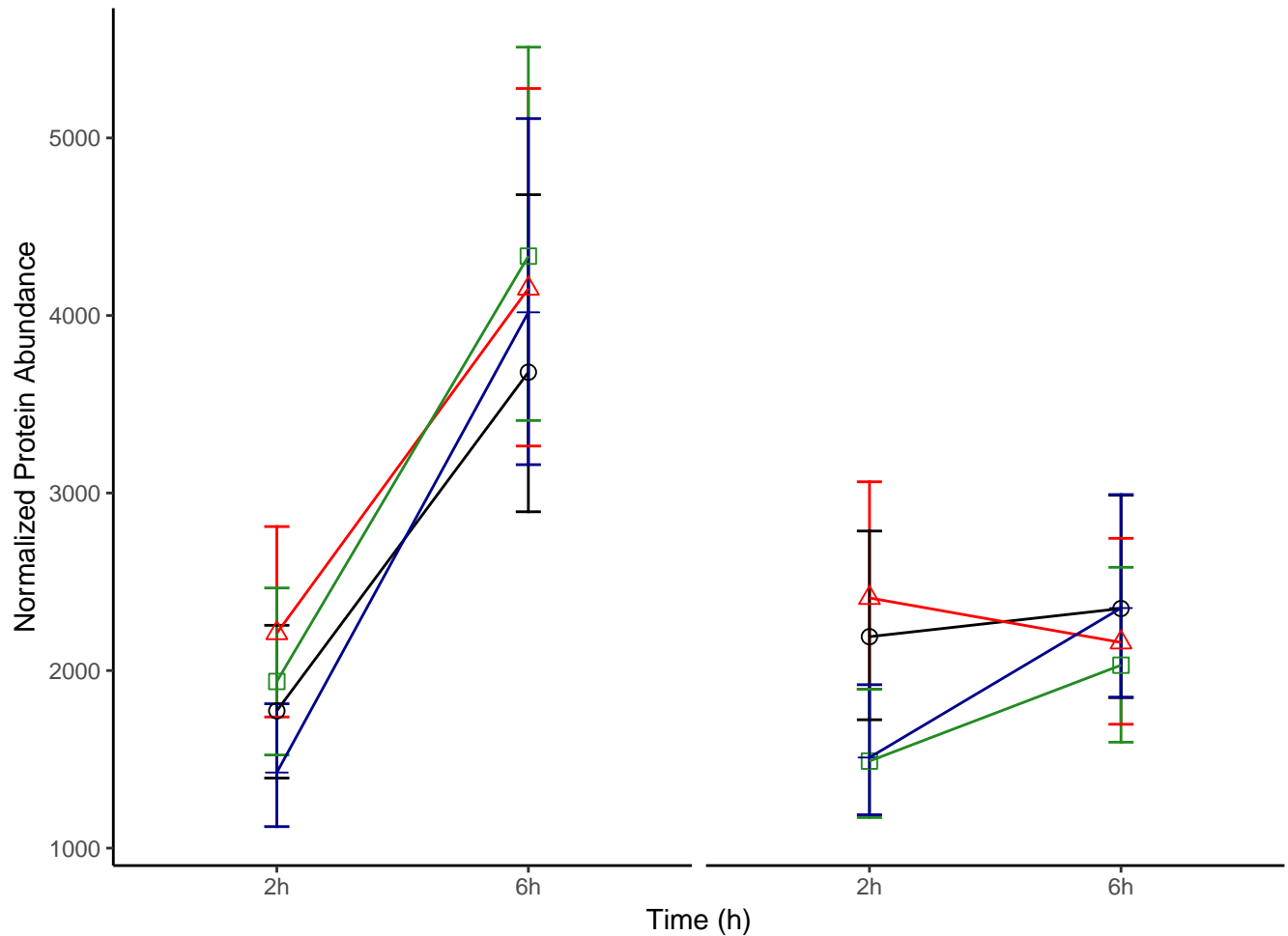


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RISB\_STAAM

TSB

TSB-dex S-302

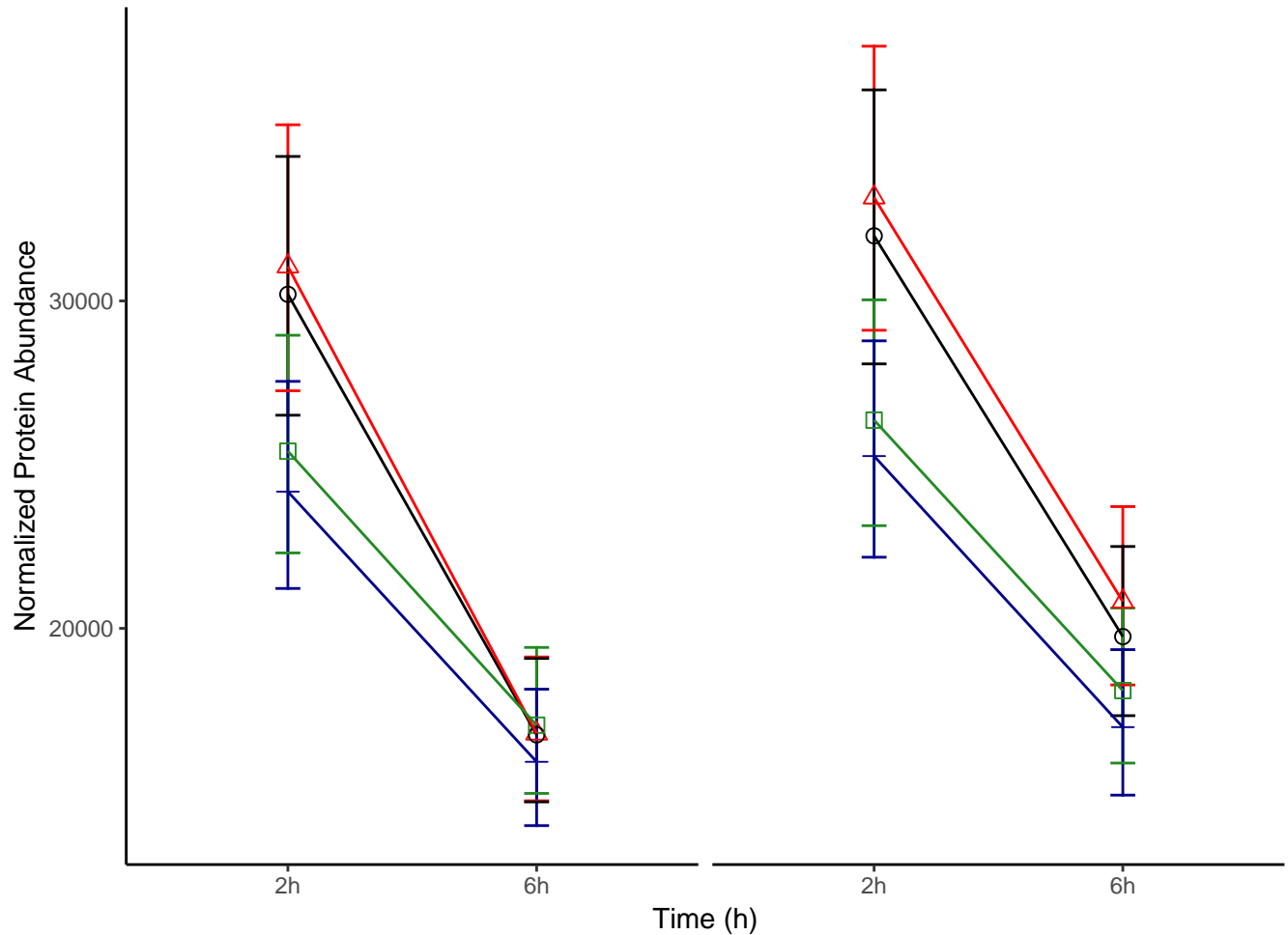


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL1\_STAAM

TSB

TSB-dex S-303

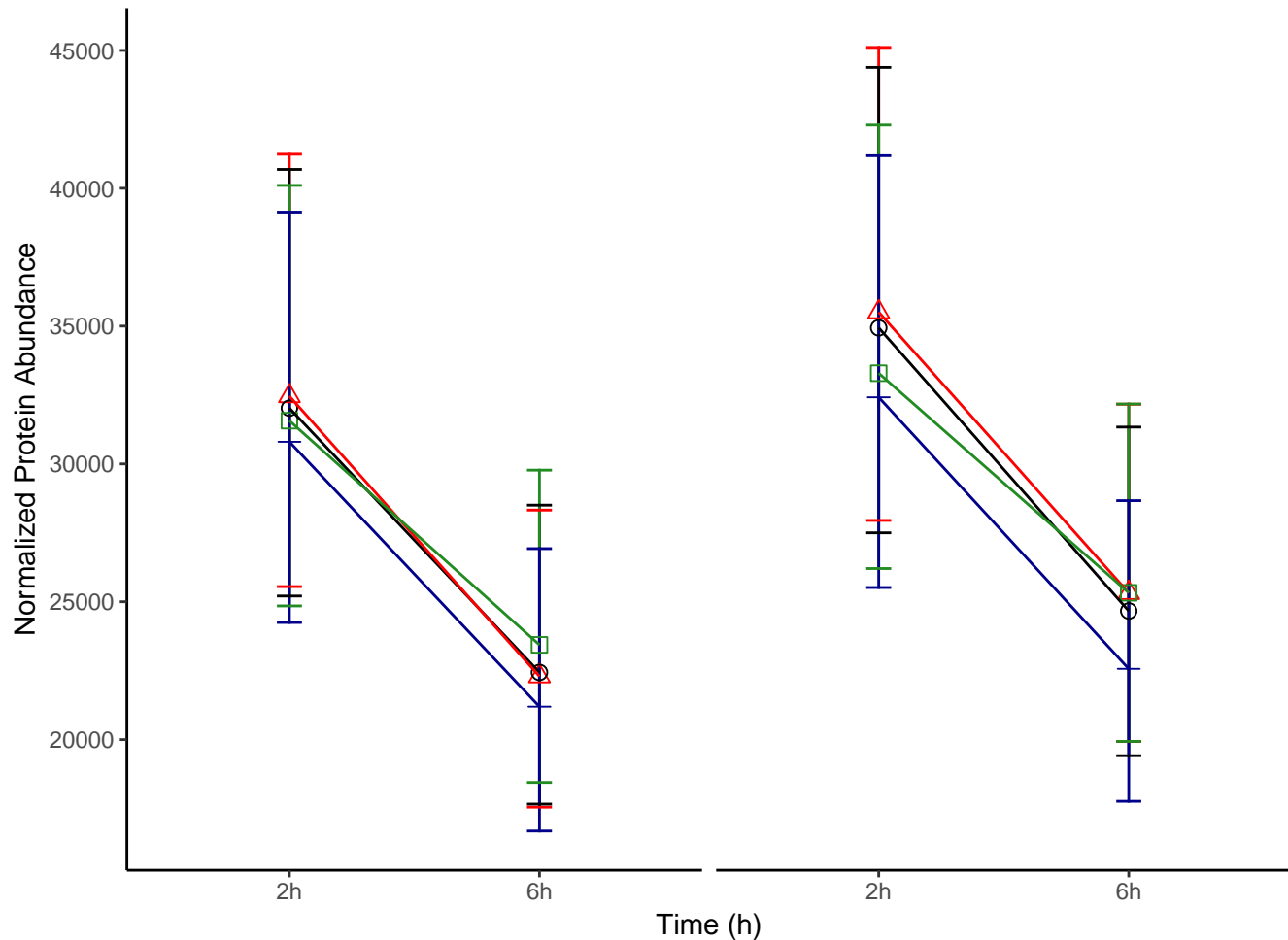


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- ⊕ SA564-Δ*hptRS/ccpA*

# RL10\_STAAM

TSB

TSB-dex S-304



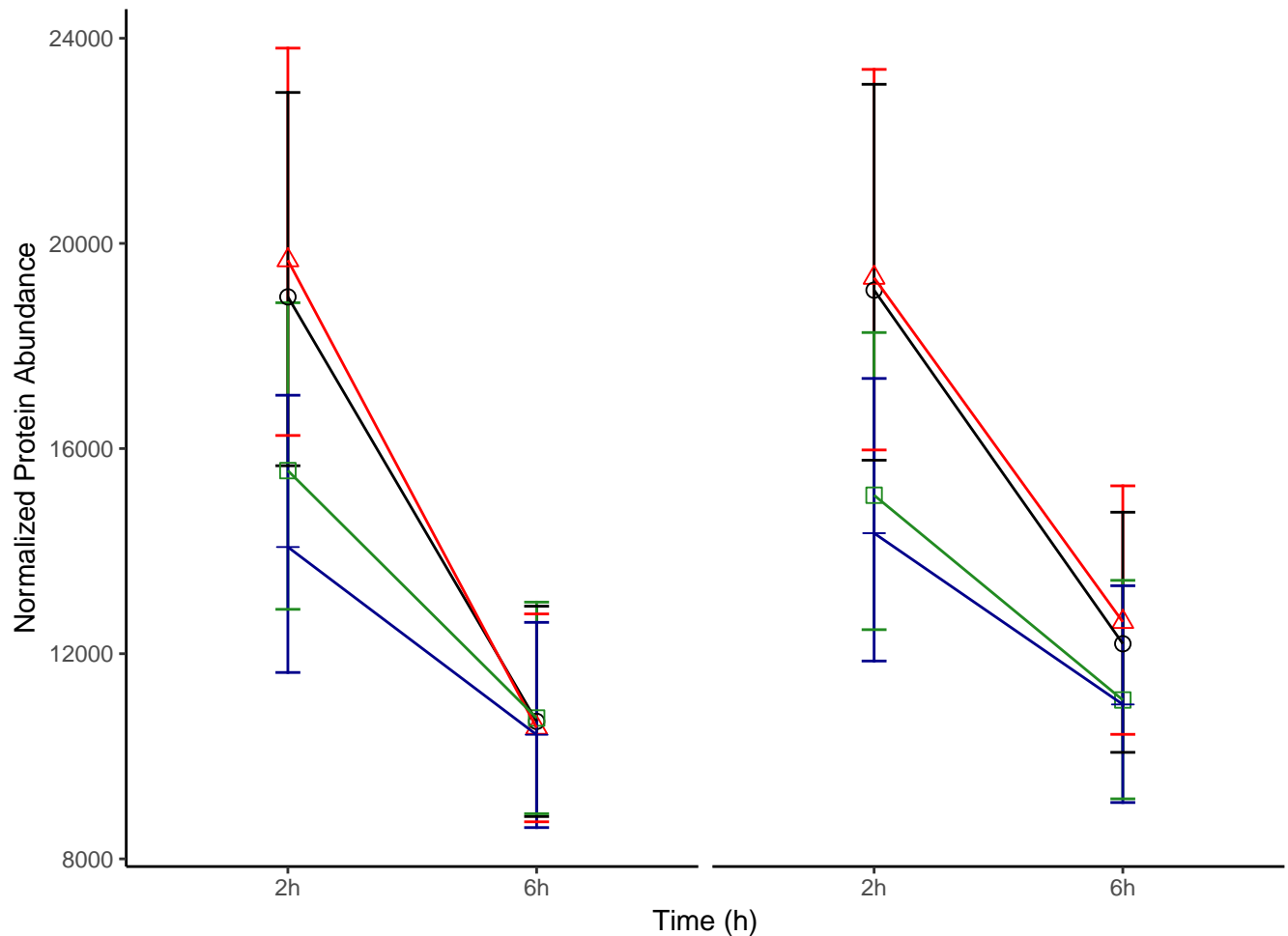
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RL11\_STAAM

TSB

TSB-dex S-305

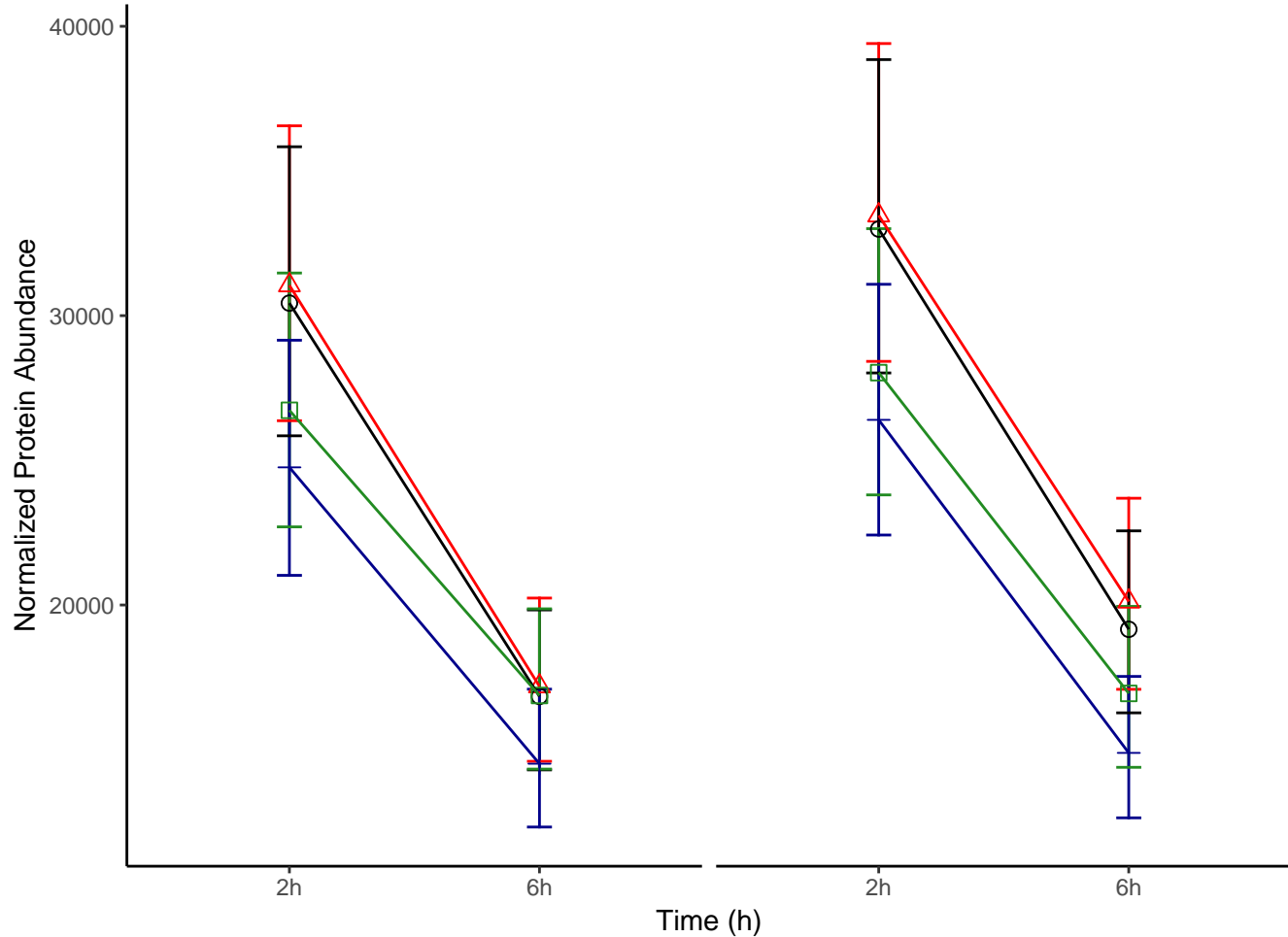


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL13\_STAAM

TSB

TSB-dex S-306

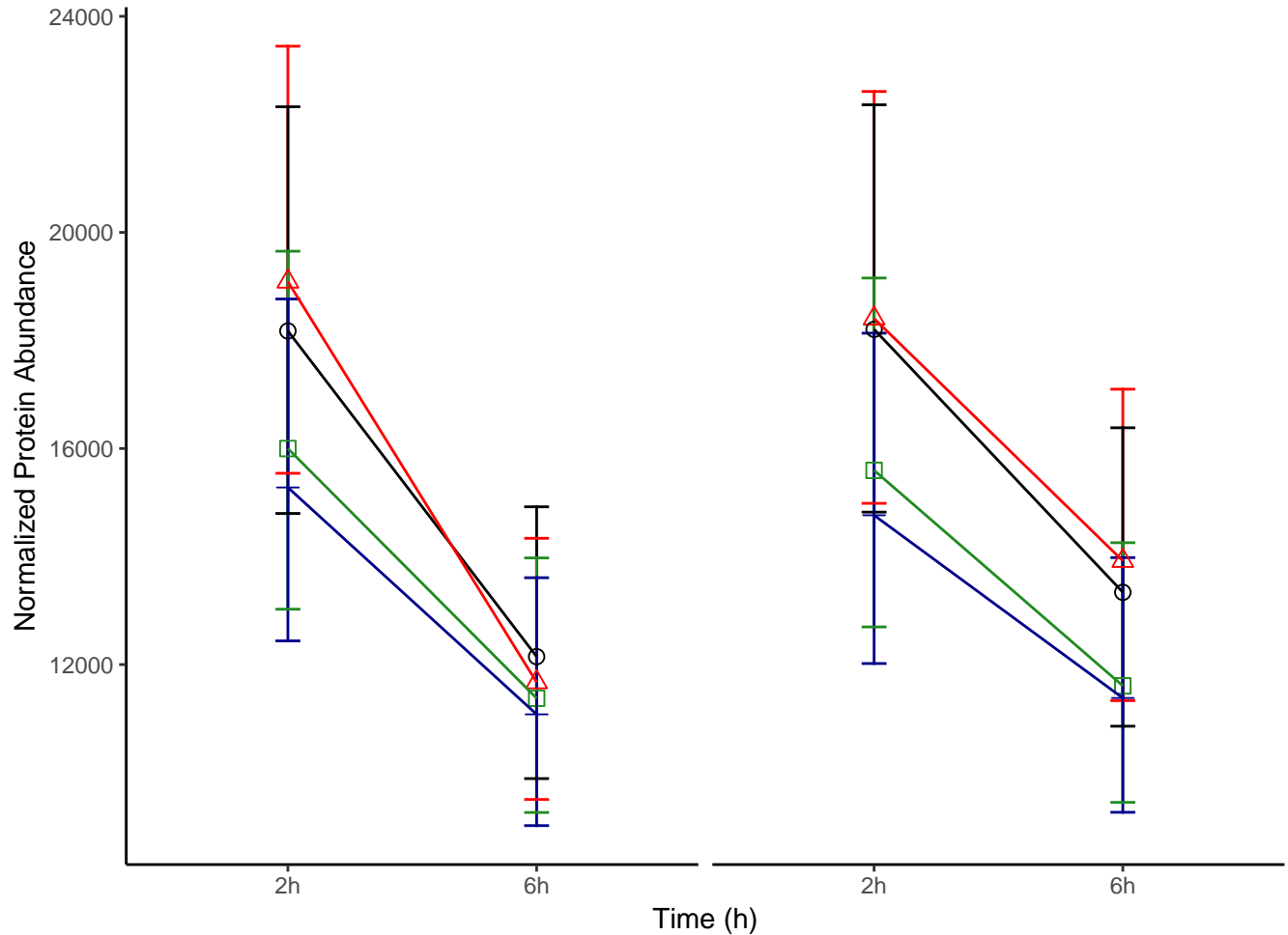


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL14\_STAAM

TSB

TSB-dex S-307

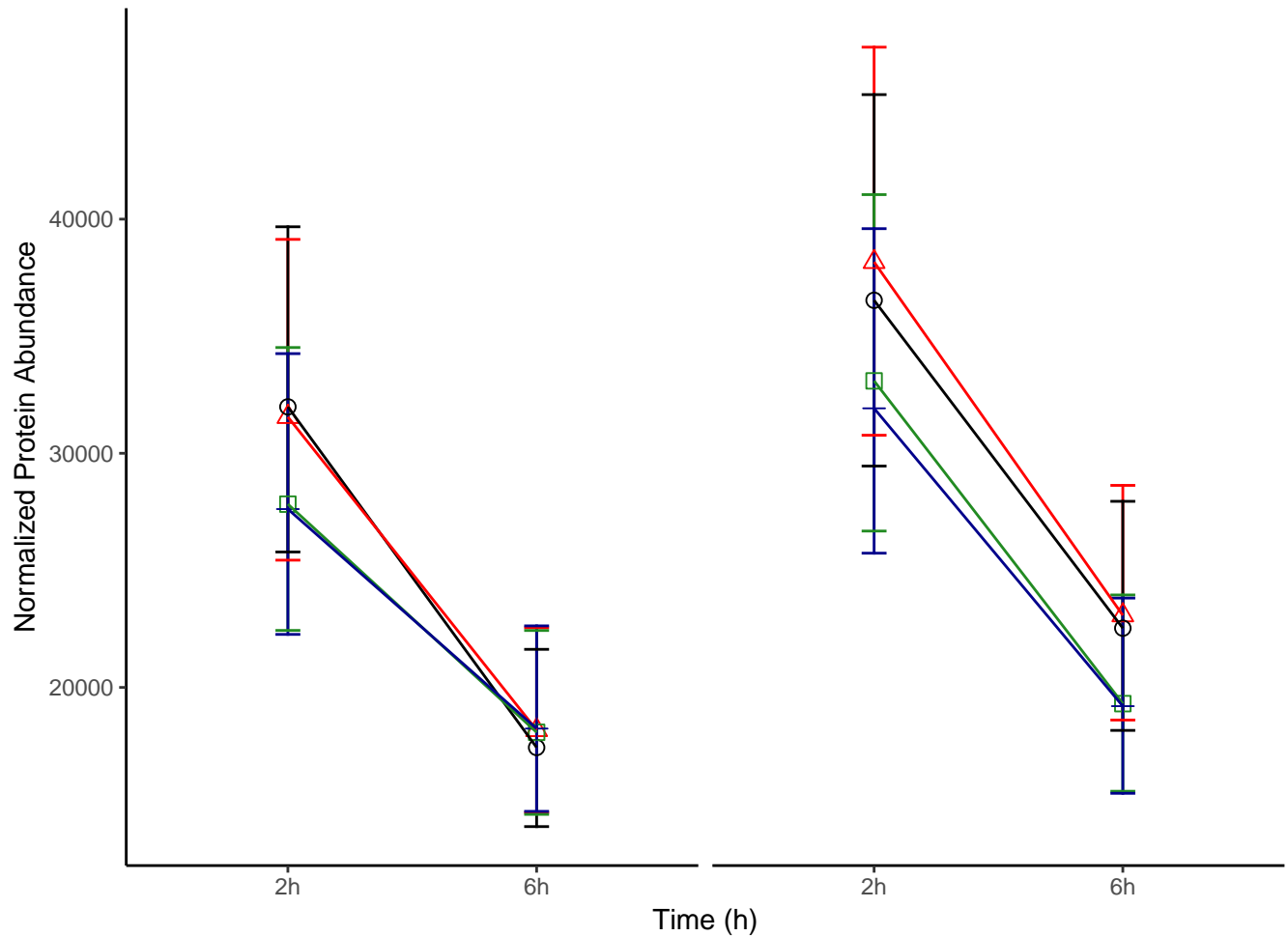


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL15\_STAAM

TSB

TSB-dex S-308

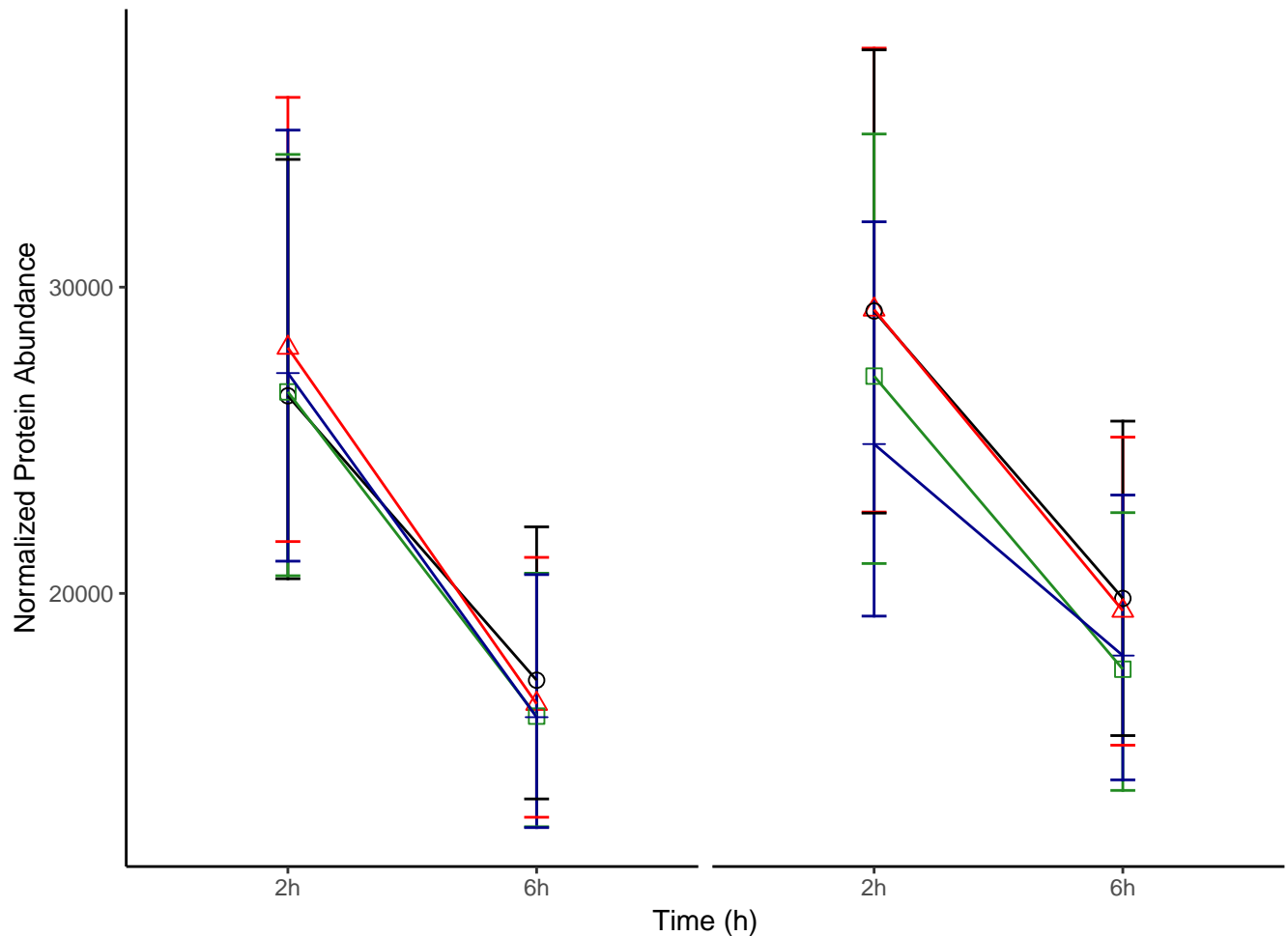


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL16\_STAAM

TSB

TSB-dex S-309

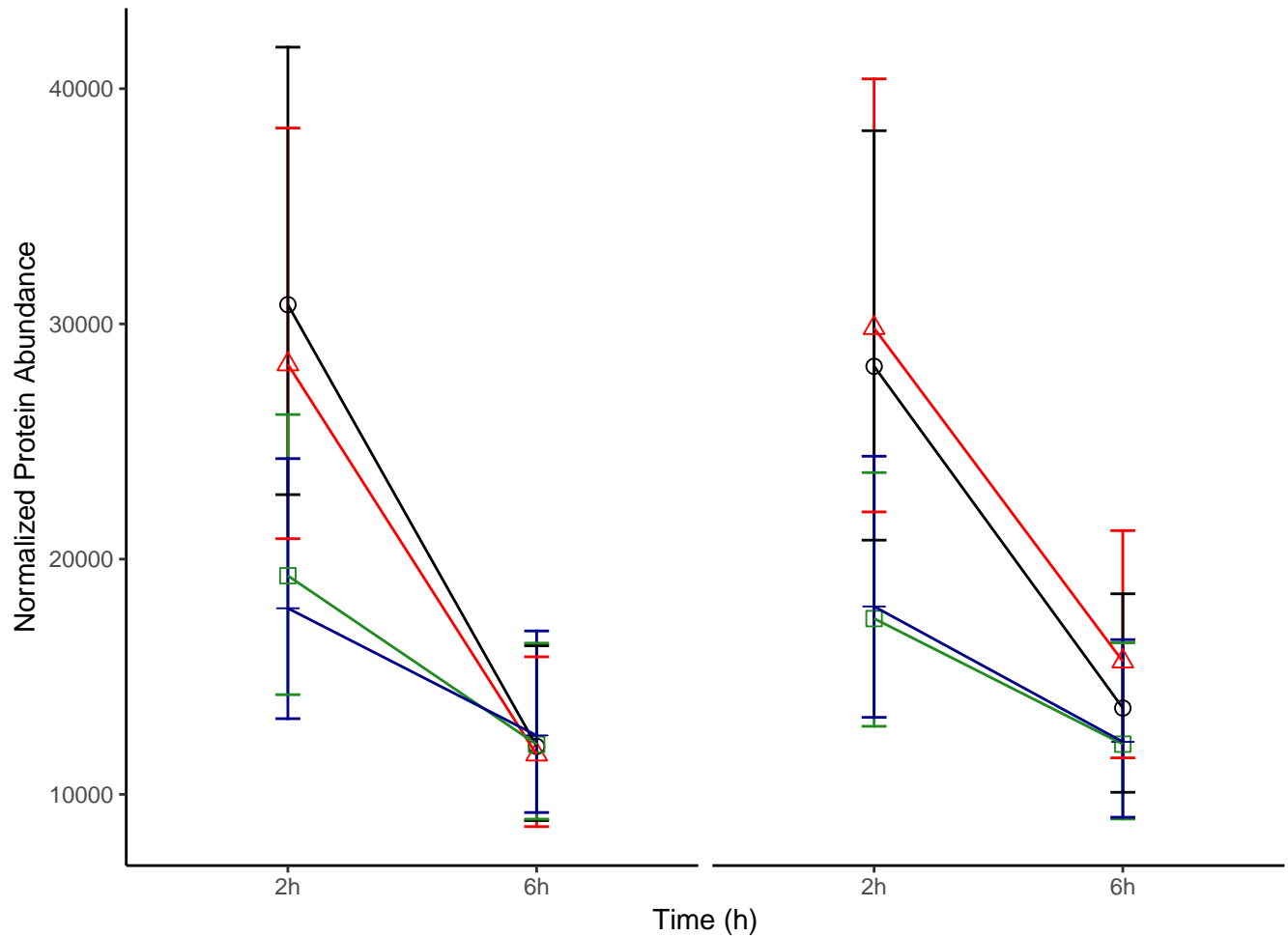


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL17\_STAAM

TSB

TSB-dex S-310

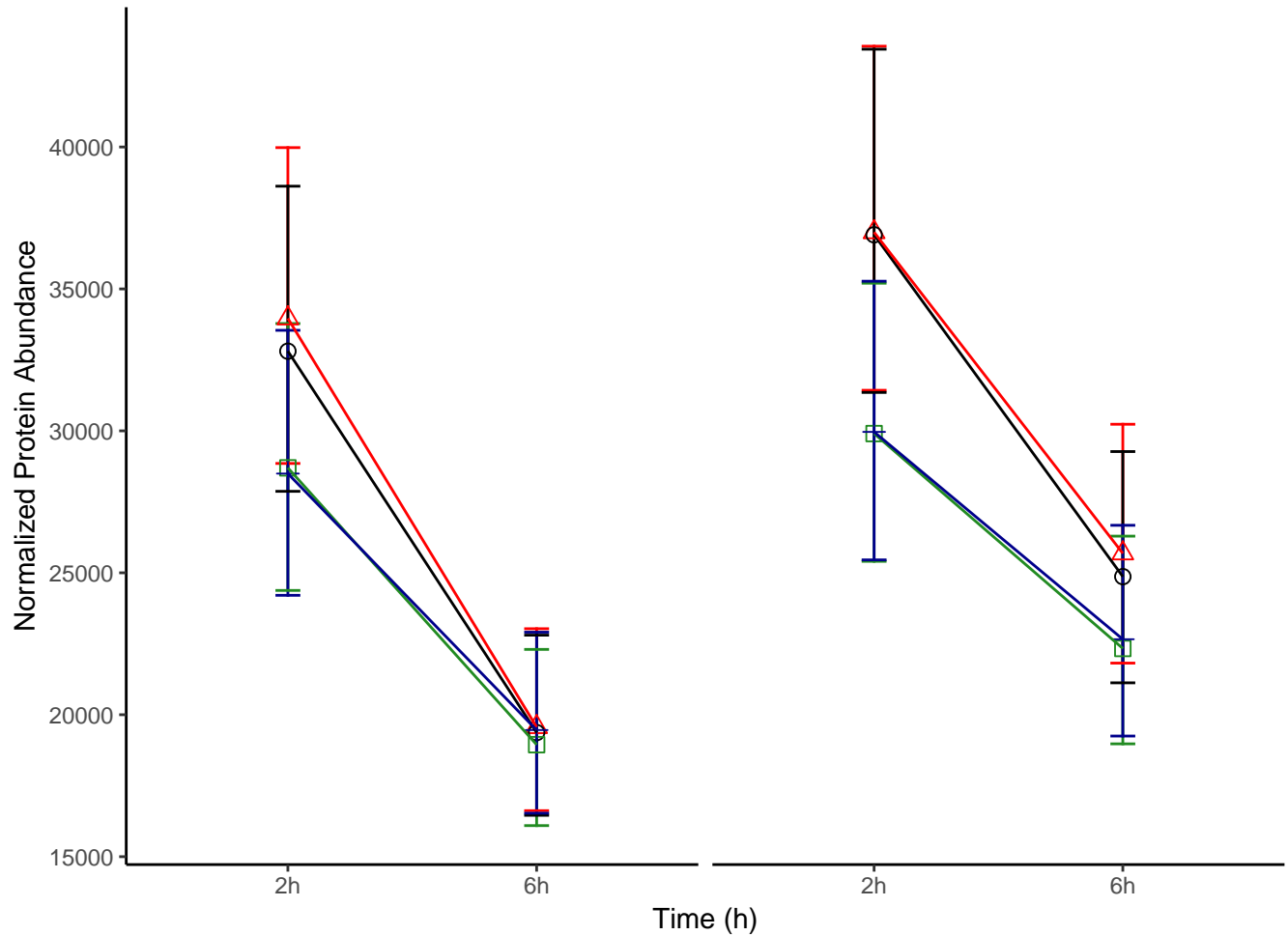


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL18\_STAAM

TSB

TSB-dex S-311

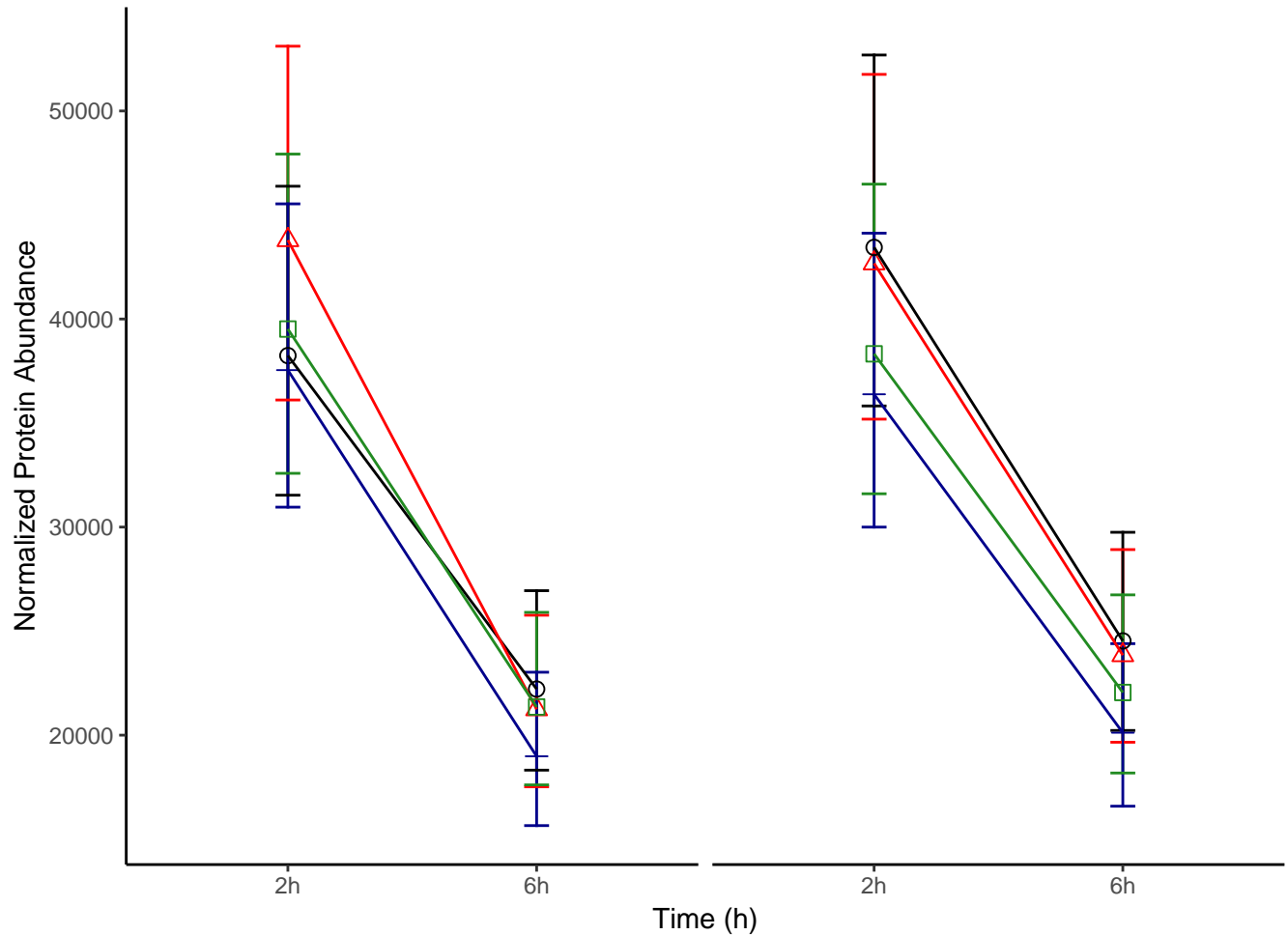


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL19\_STAAM

TSB

TSB-dex S-312



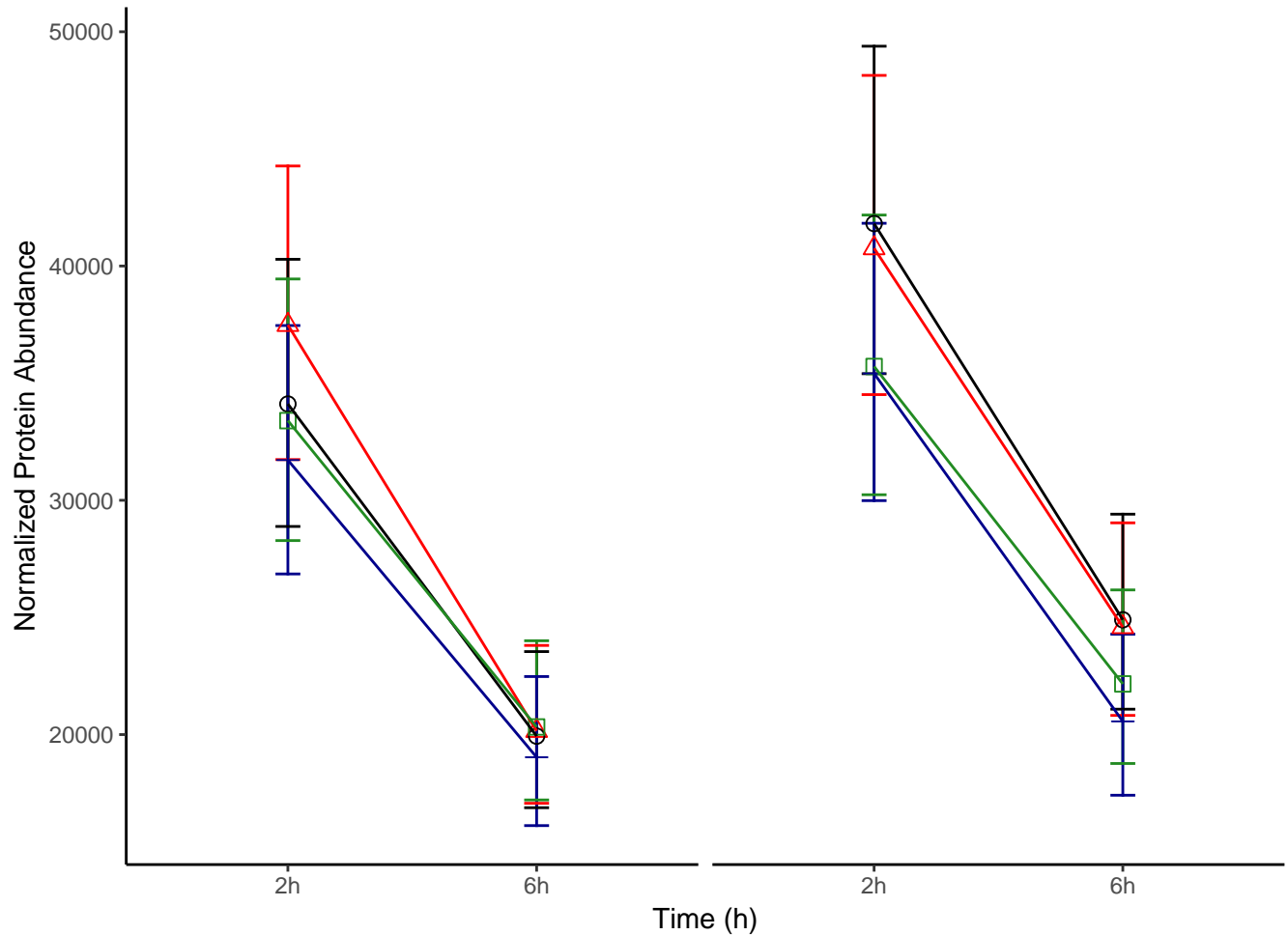
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# RL2\_STAAM

TSB

TSB-dex S-313

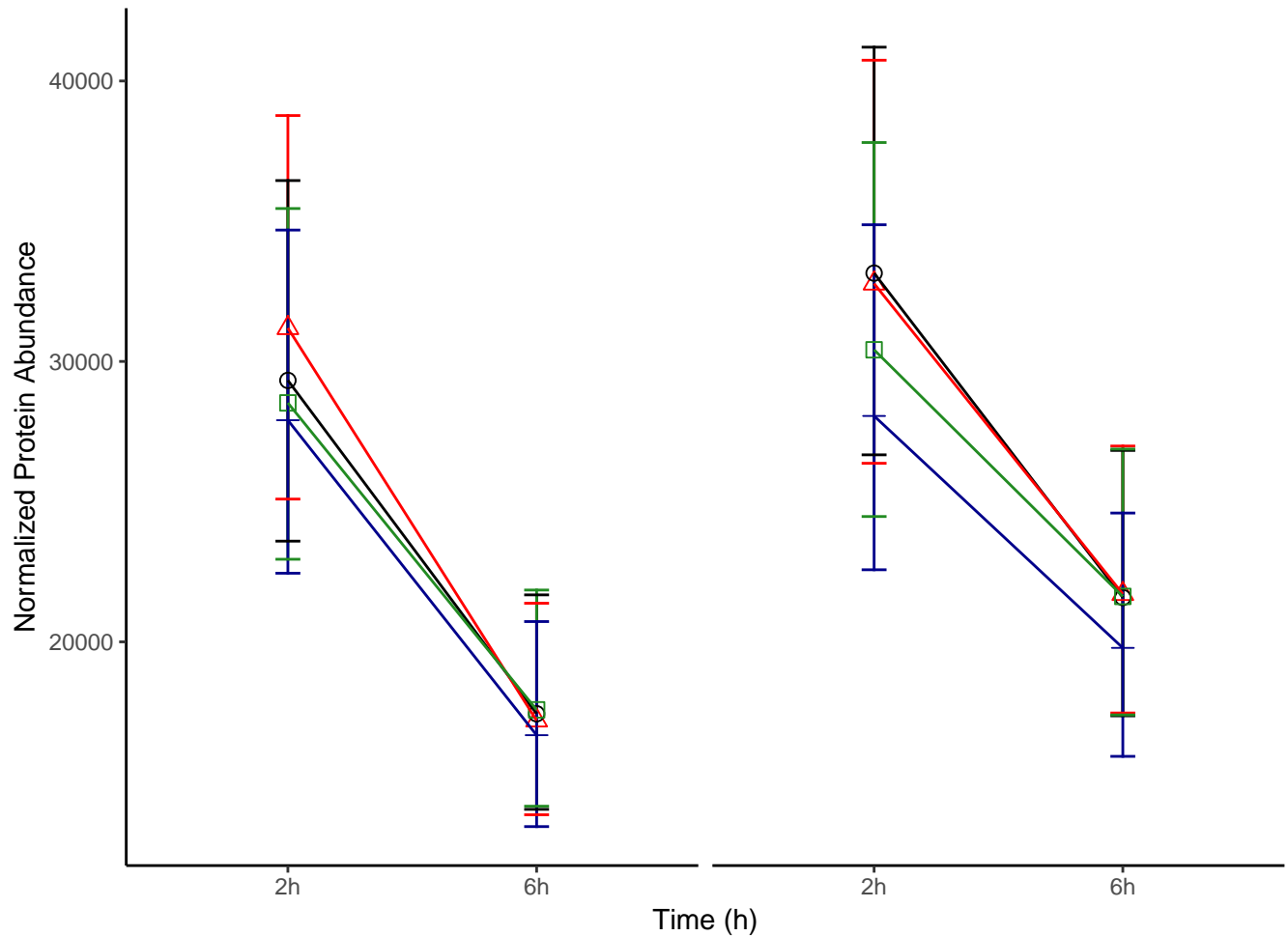


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL20\_STAAM

TSB

TSB-dex S-314

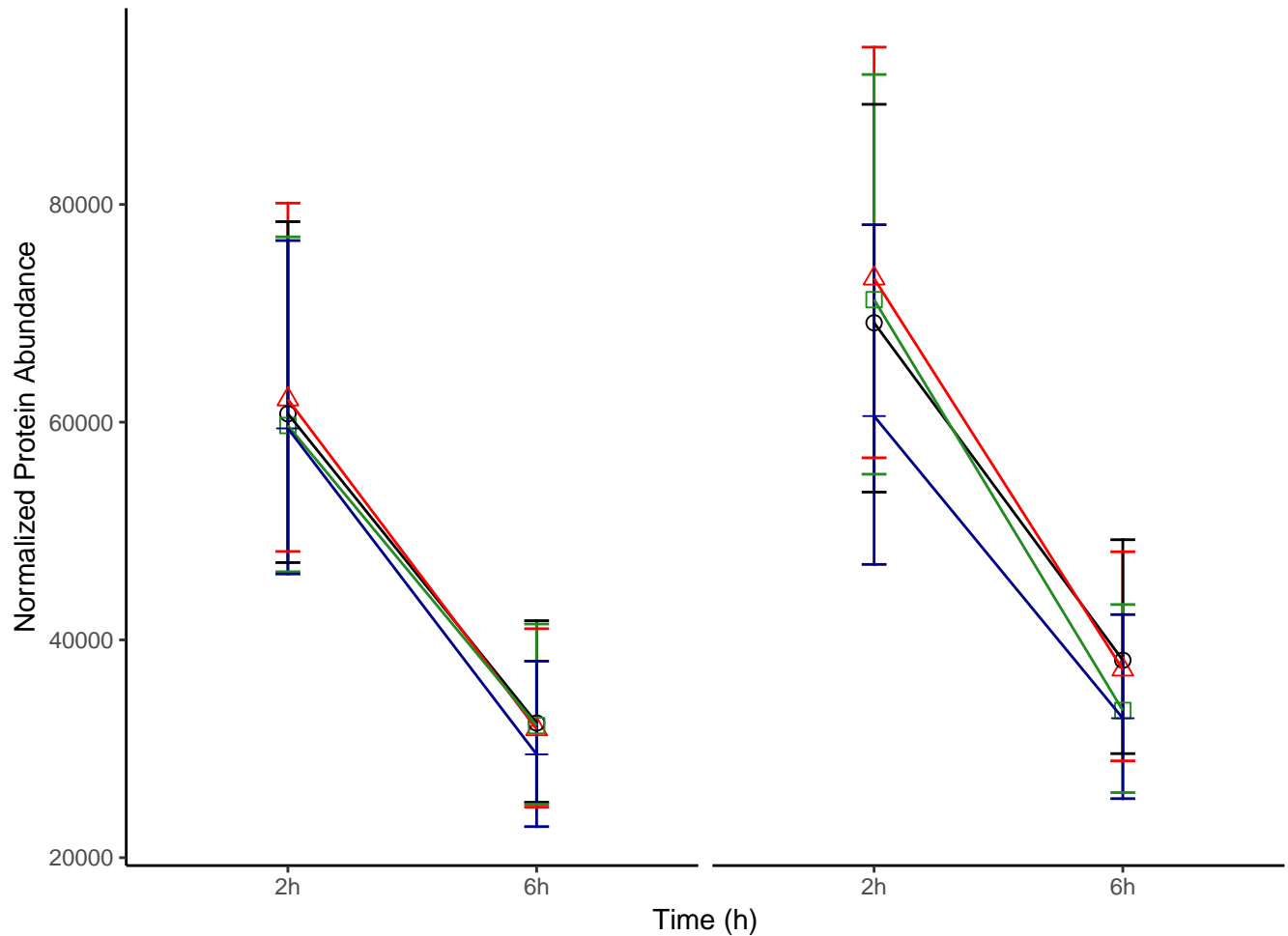


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL21\_STAAM

TSB

TSB-dex S-315

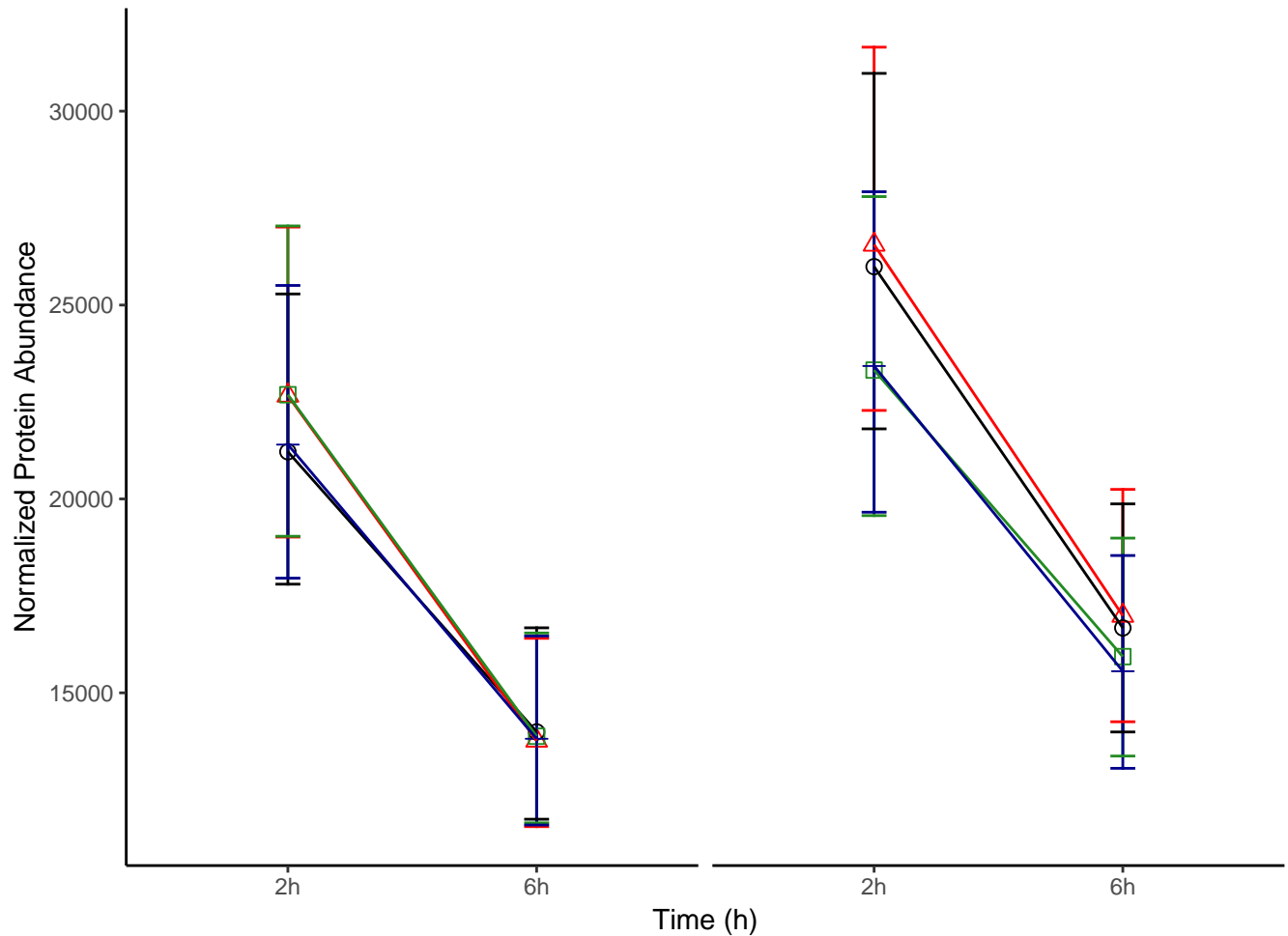


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL22\_STAAM

TSB

TSB-dex S-316

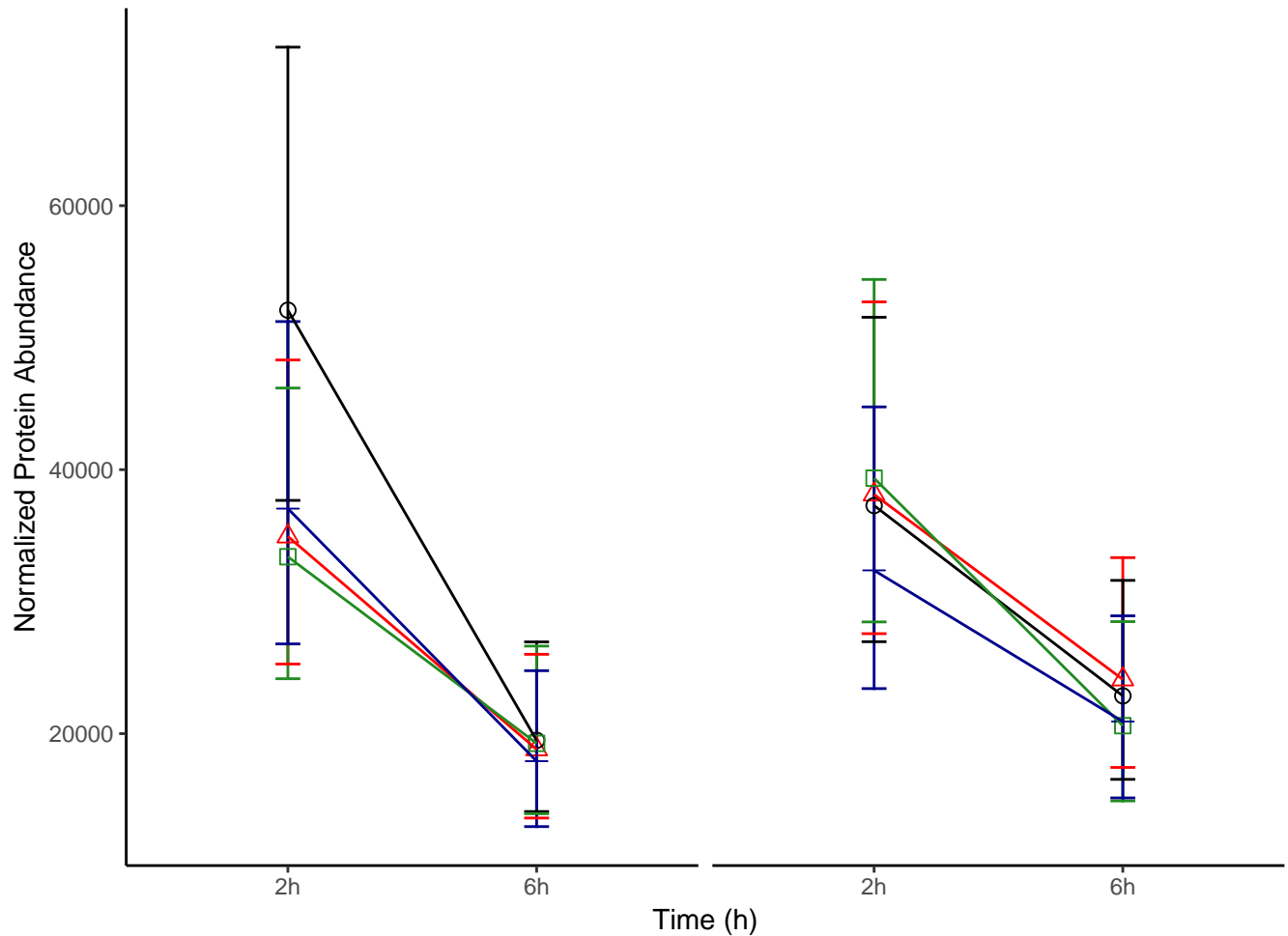


- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# RL23\_STAAM

TSB

TSB-dex S-317

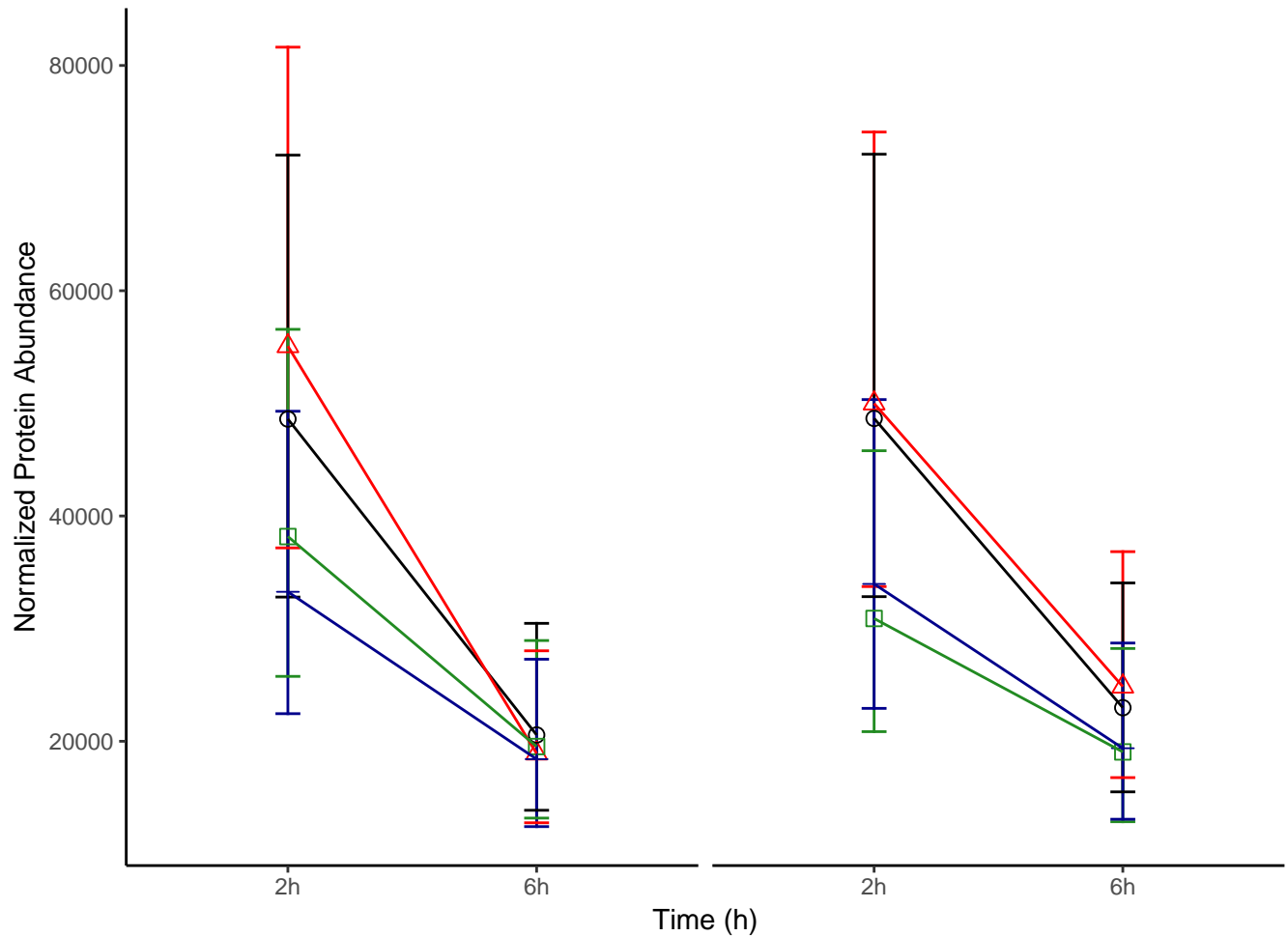


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL24\_STAAM

TSB

TSB-dex S-318

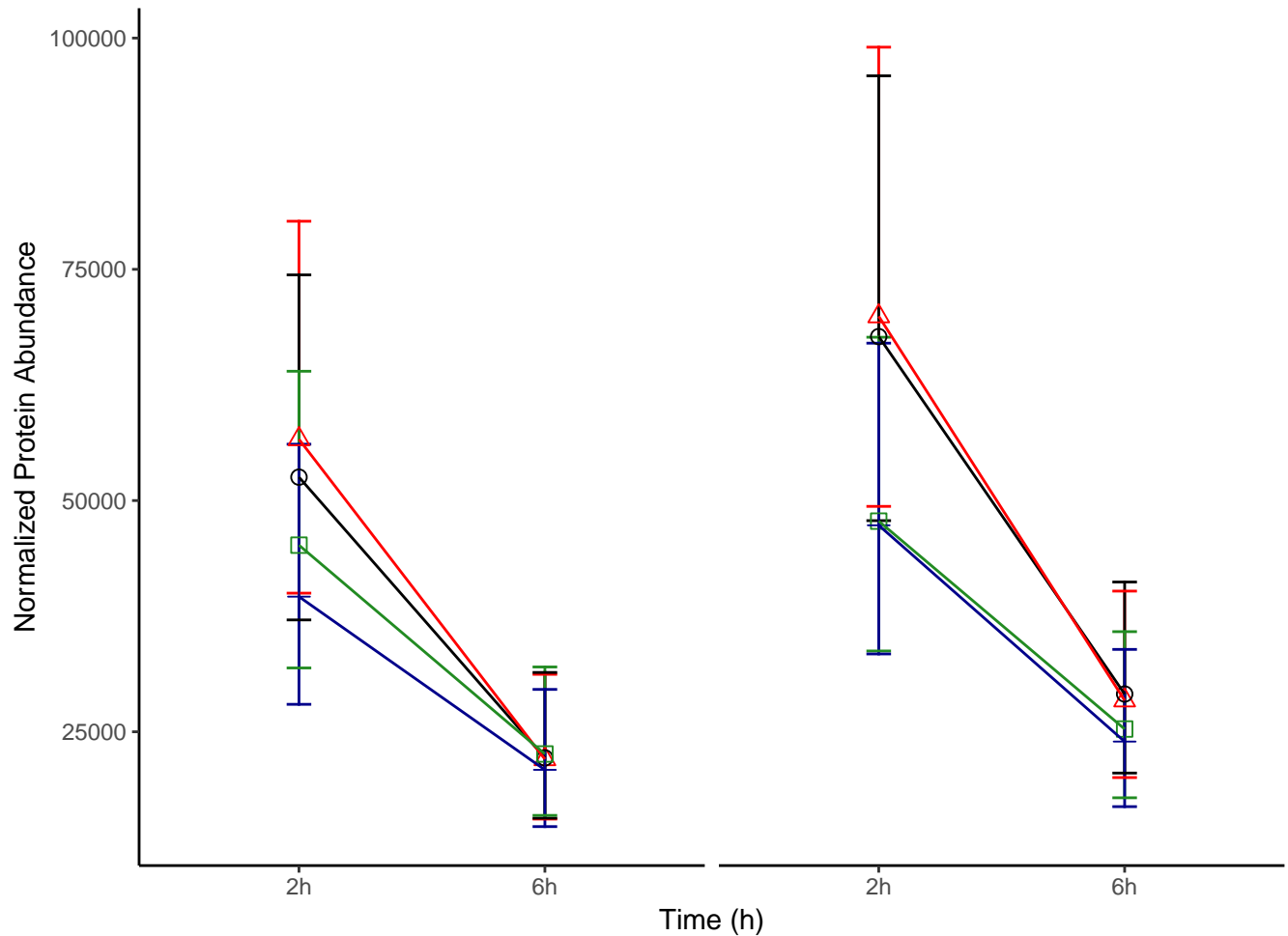


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RL25\_STAAM

TSB

TSB-dex S-319

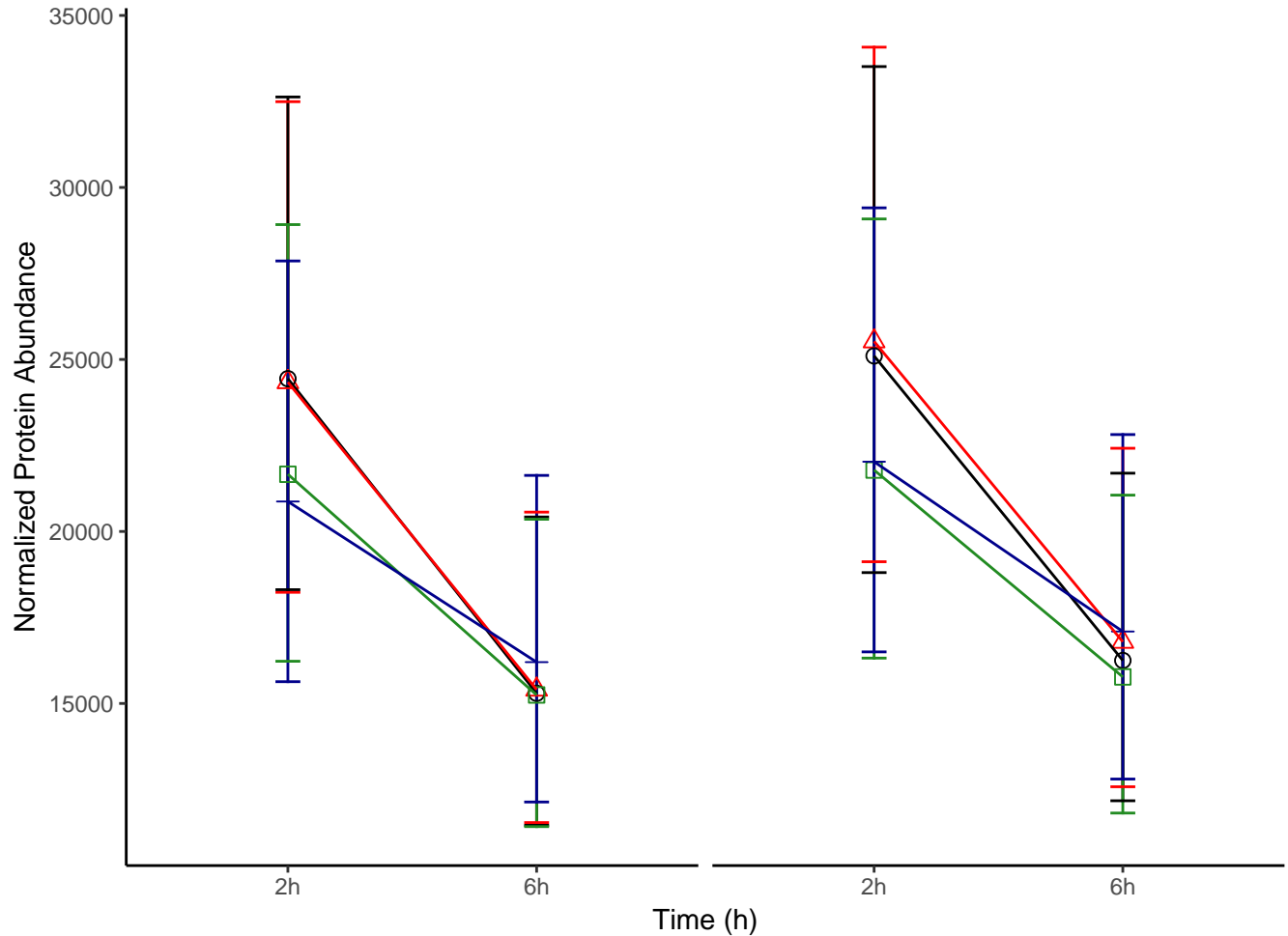


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- +

# RL27\_STAAM

TSB

TSB-dex S-320



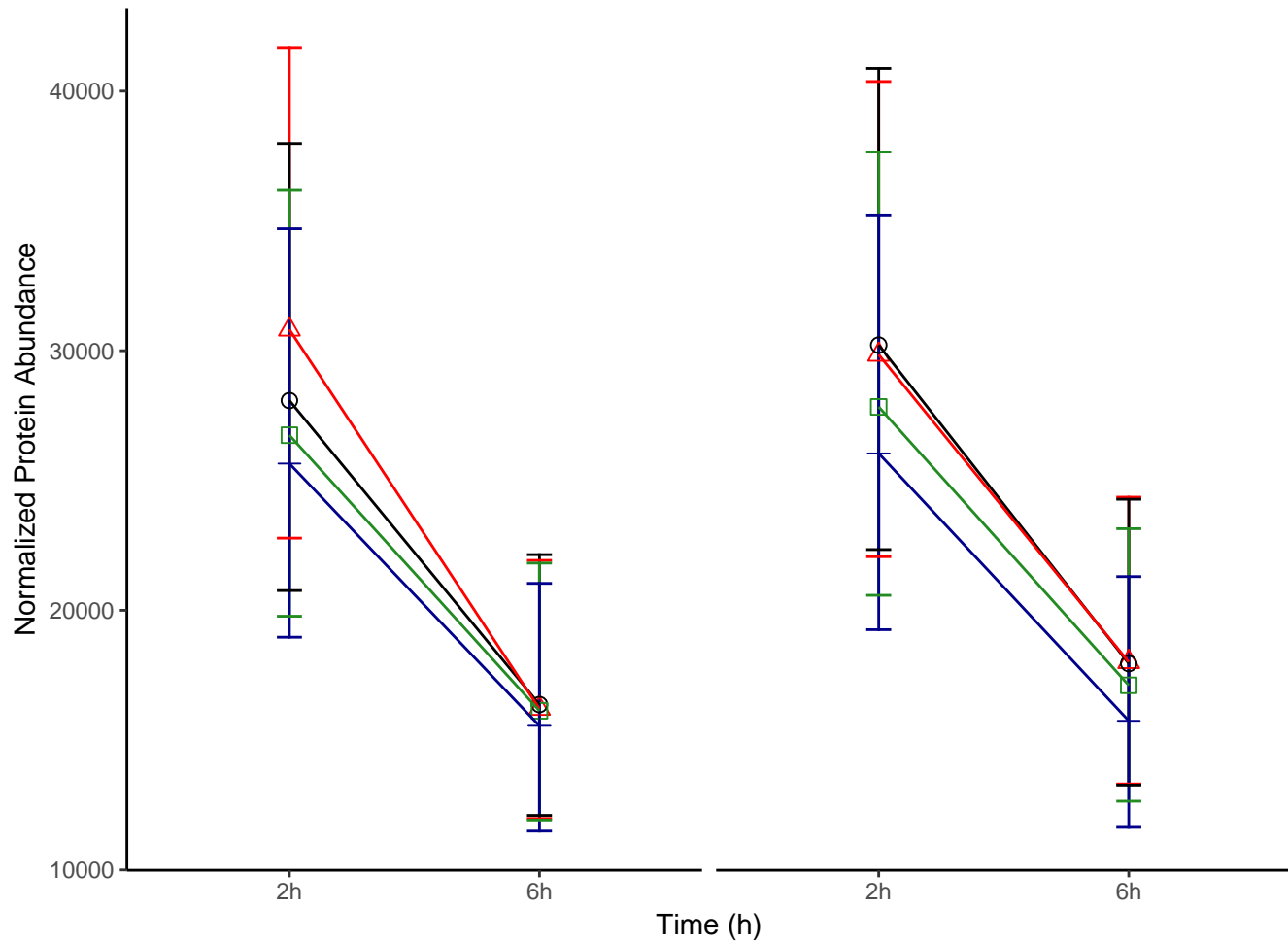
- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



# RL28\_STAAM

TSB

TSB-dex S-321

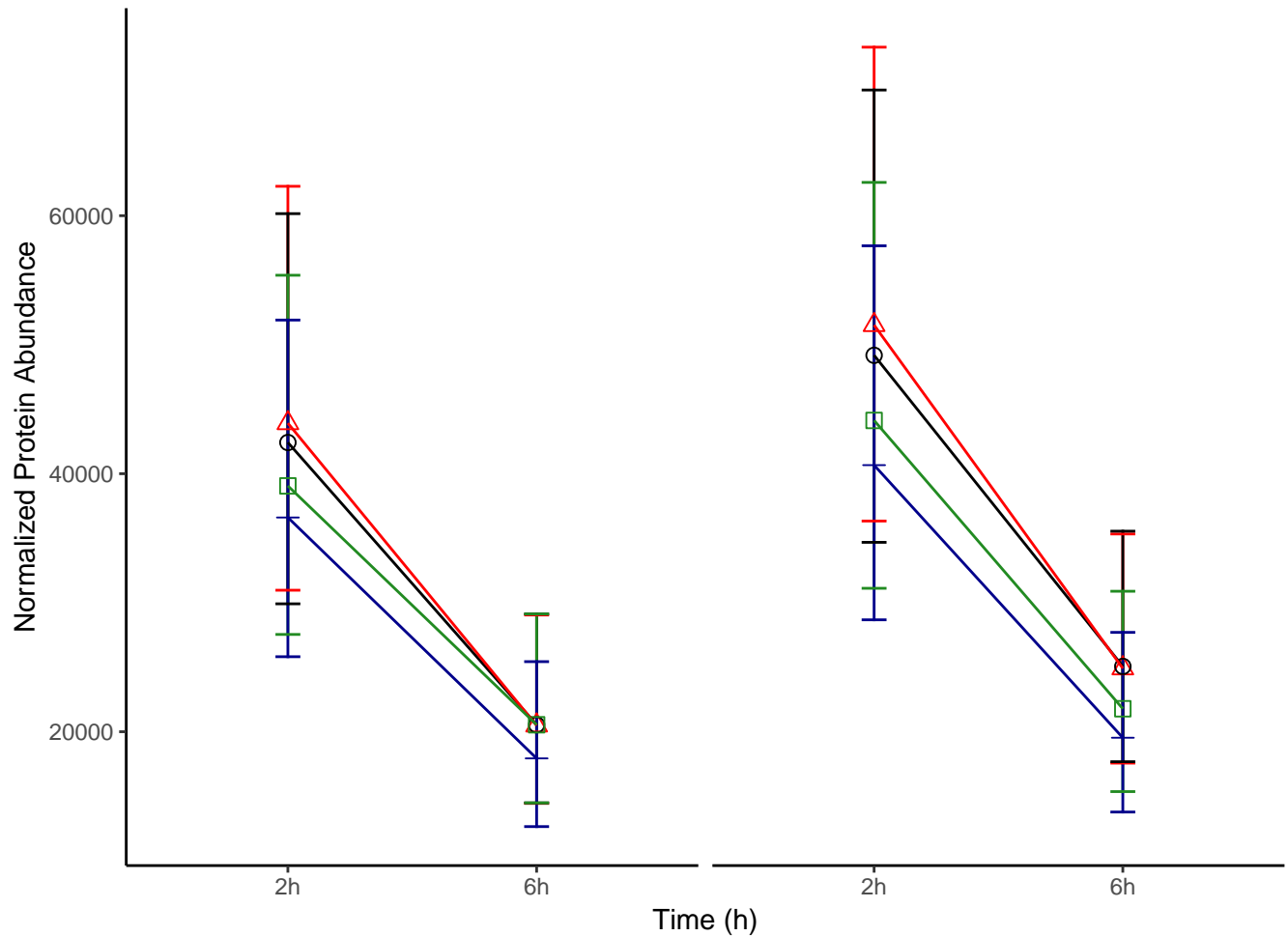


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL29\_STAAM

TSB

TSB-dex S-322

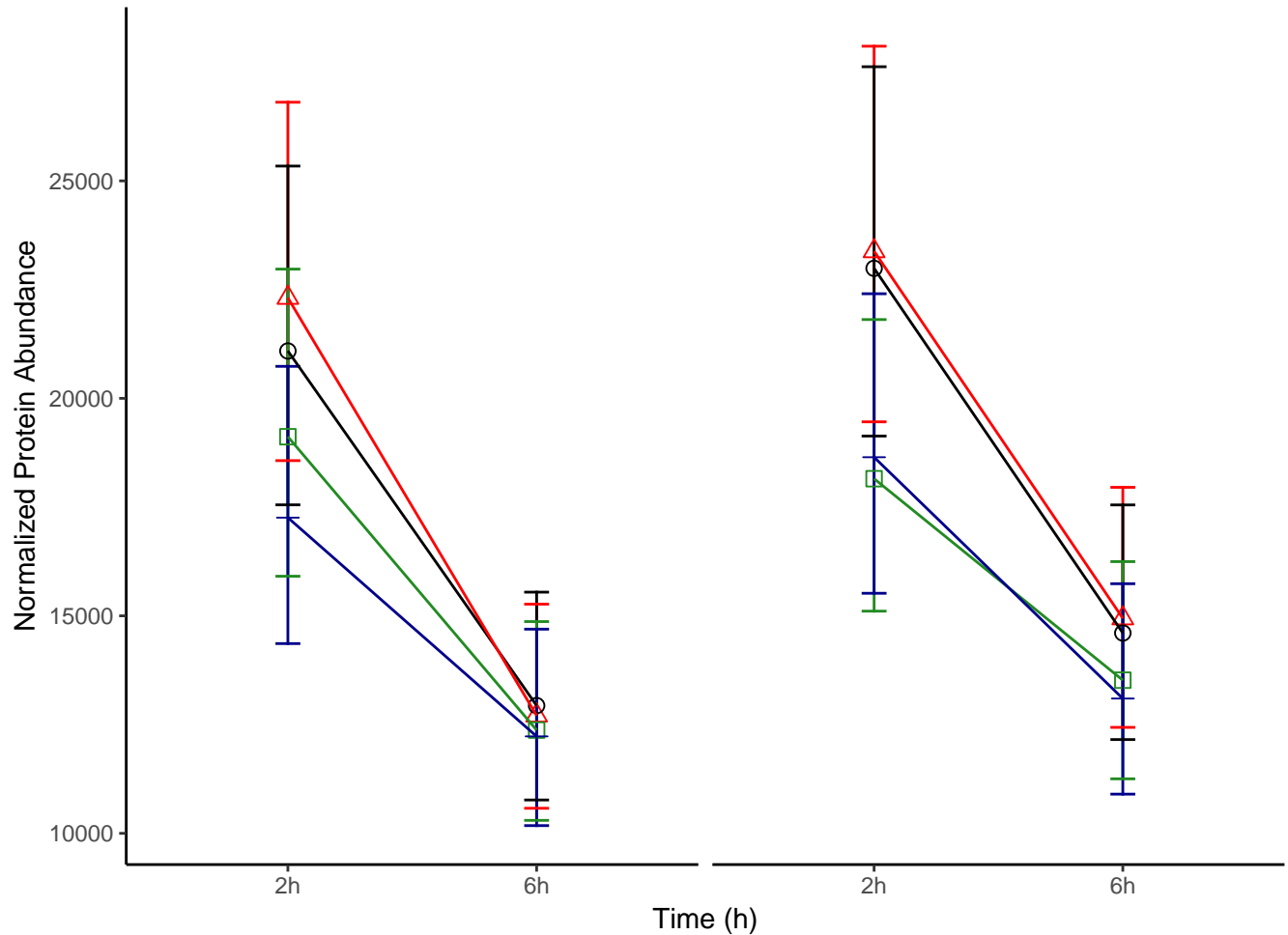


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RL3\_STAAM

TSB

TSB-dex S-323

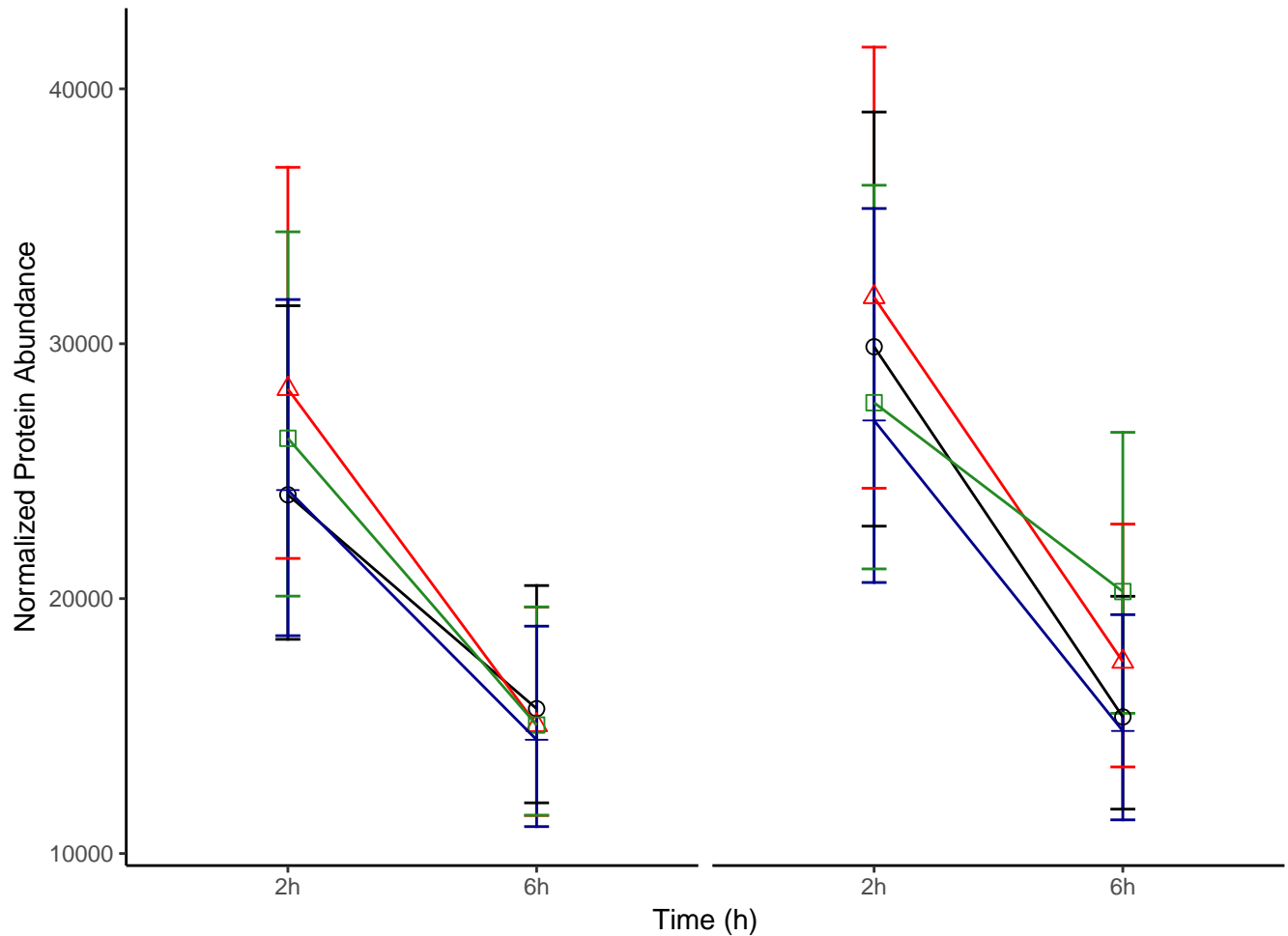


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL30\_STAAM

TSB

TSB-dex S-324

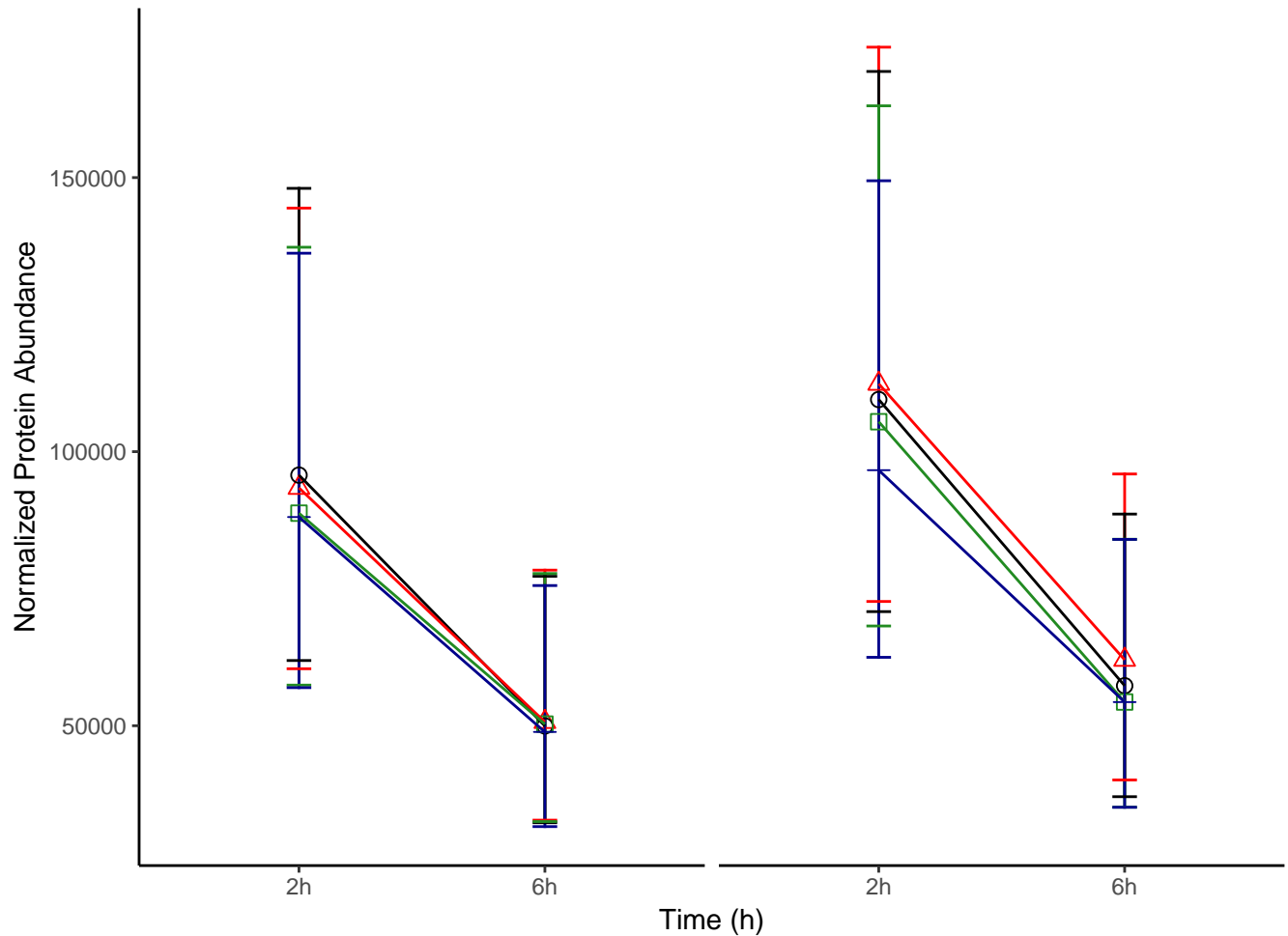


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL31B\_STAAM

TSB

TSB-dex S-325

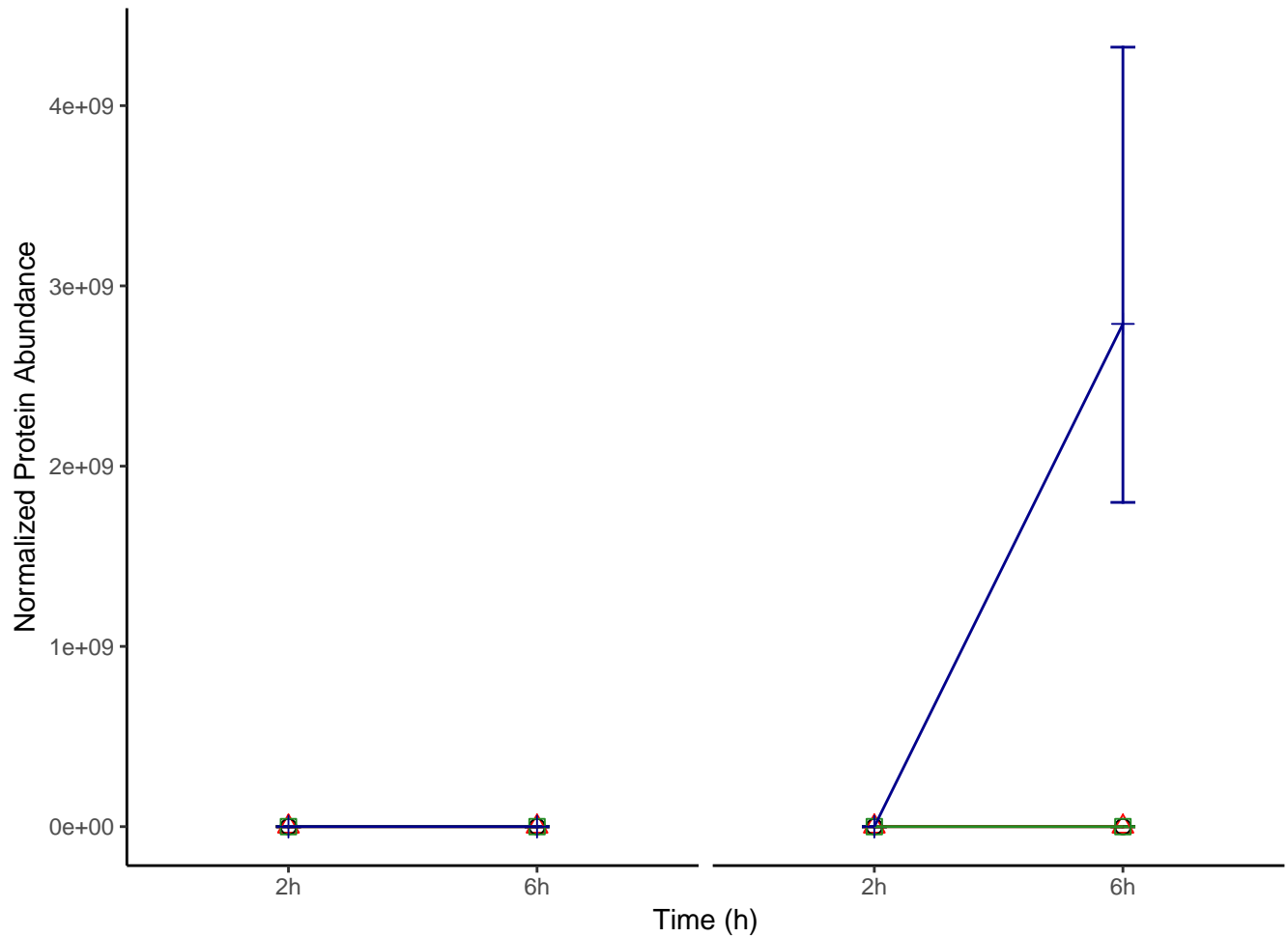


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL32\_STAAM

TSB

TSB-dex S-326

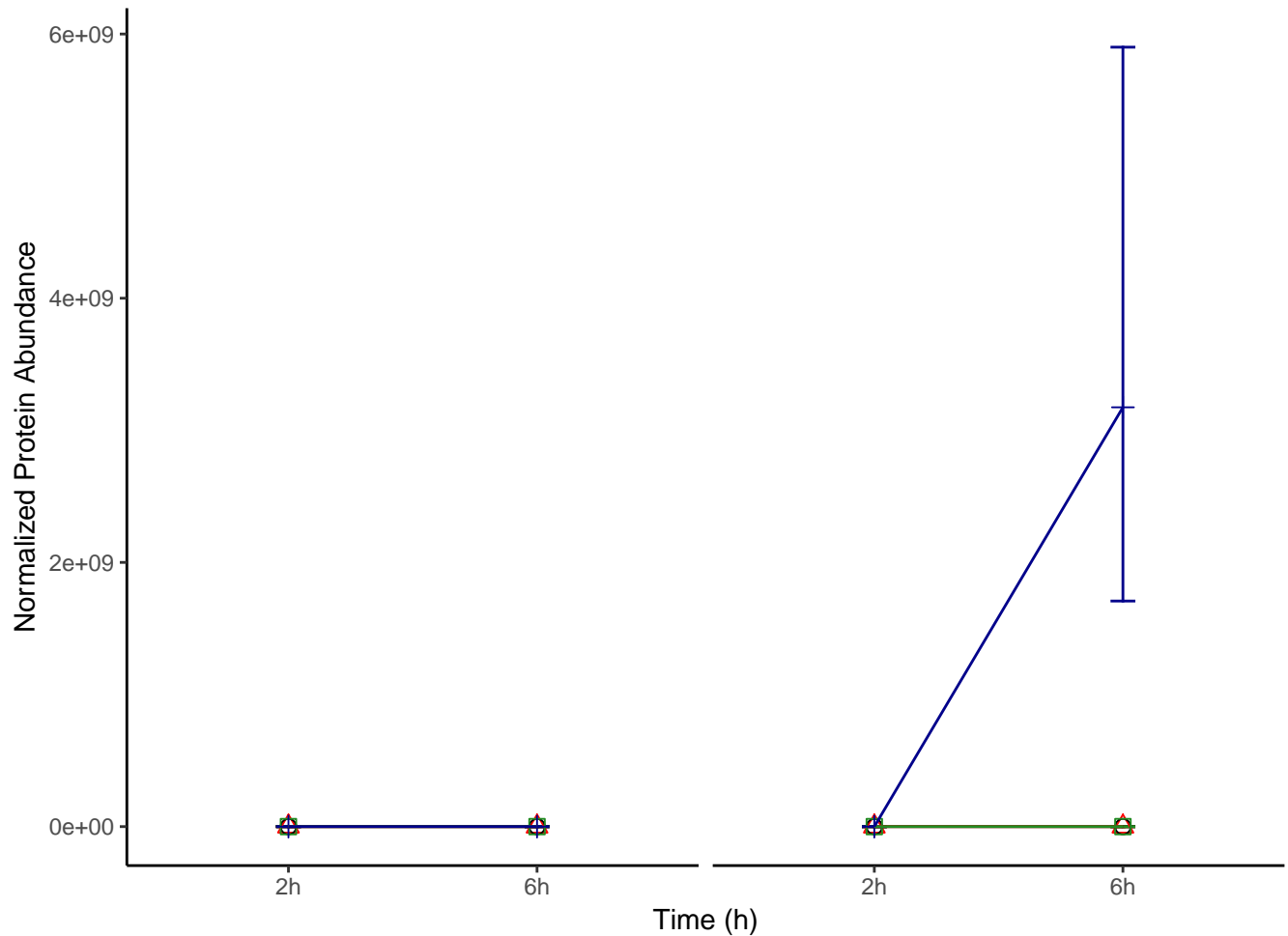


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL331\_STAAM

TSB

TSB-dex S-327

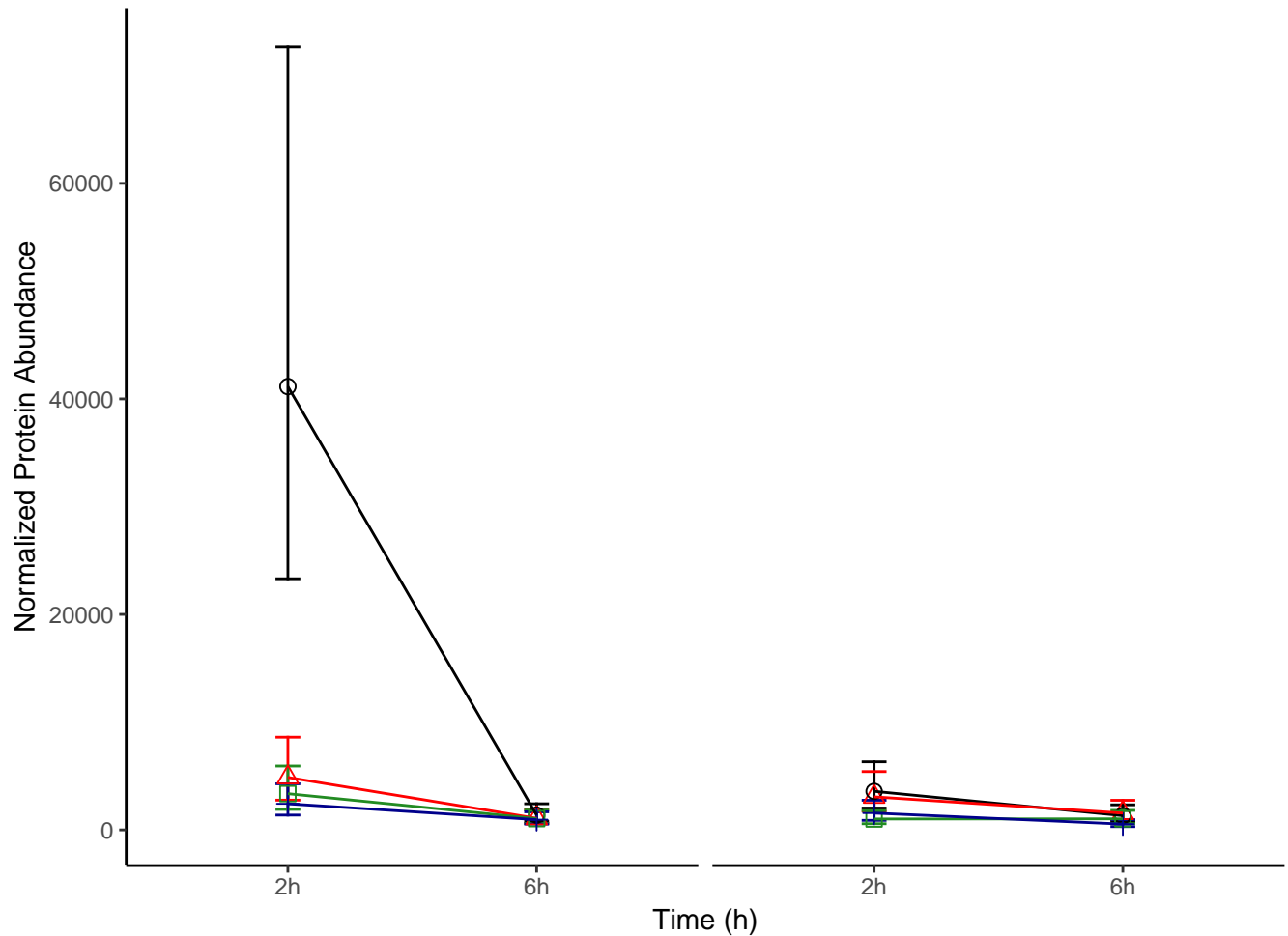


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL332\_STAAM

TSB

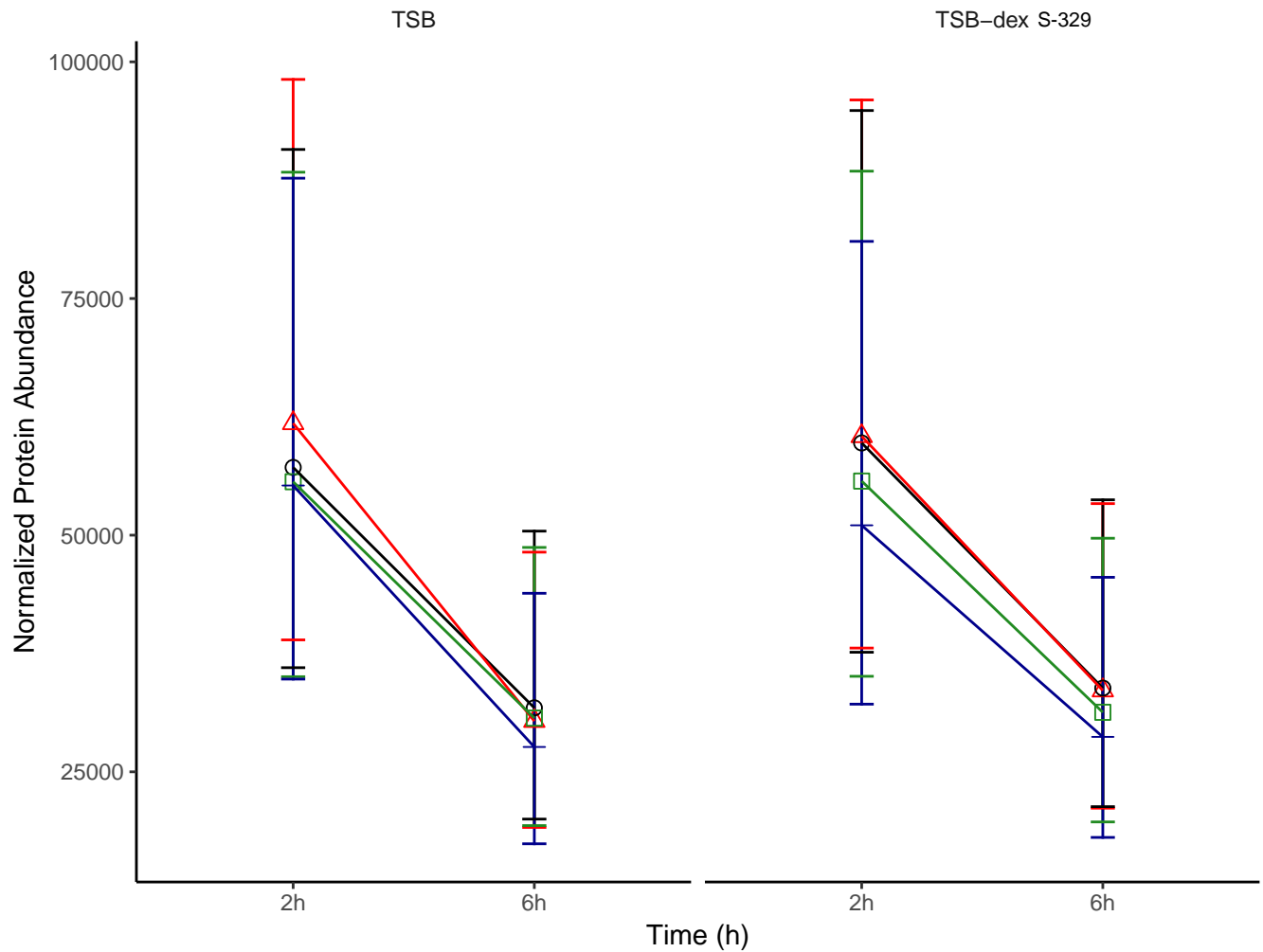
TSB-dex S-328



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

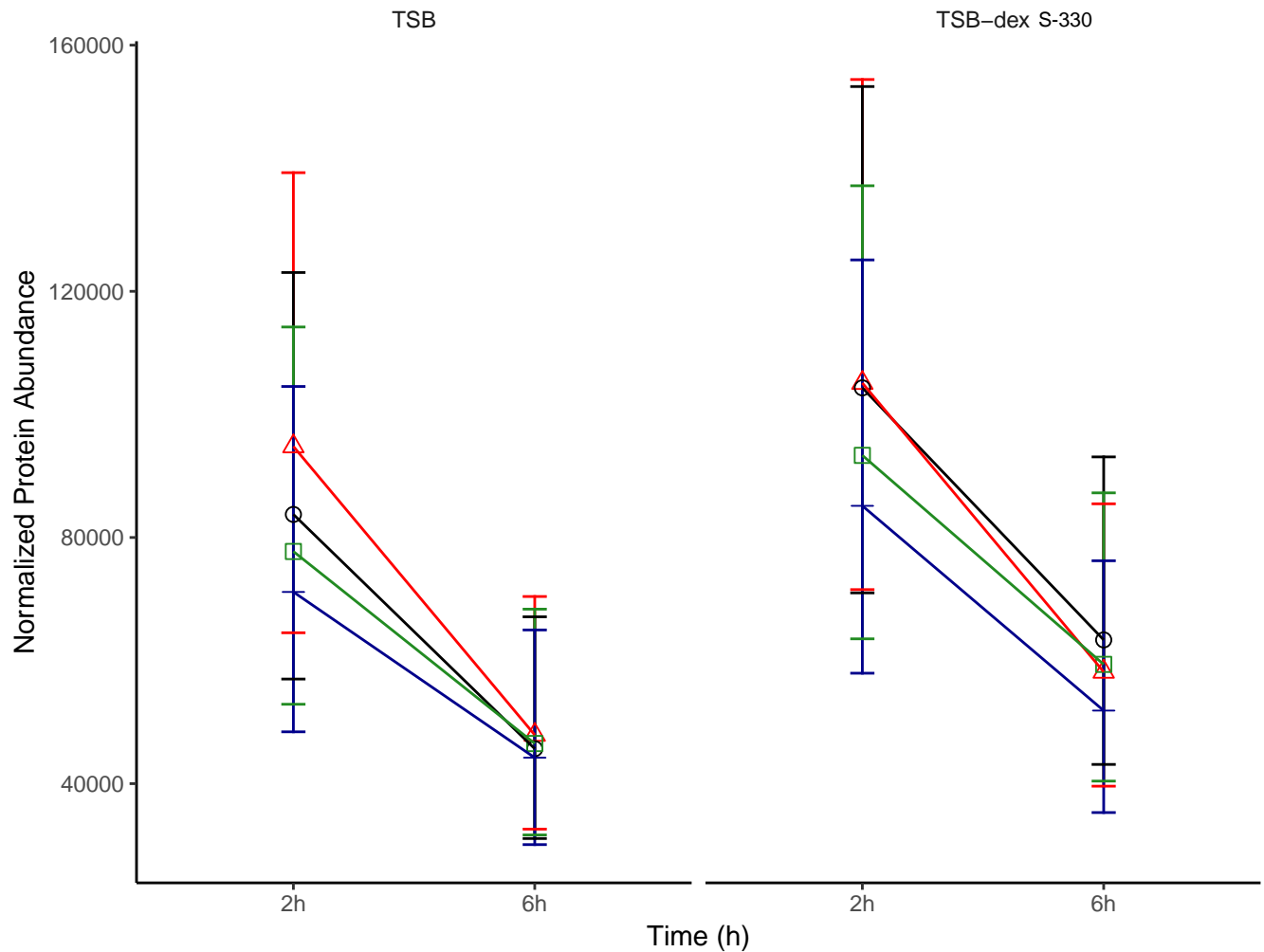


# RL35\_STAAM



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- ⊕ SA564- $\Delta hptRS/ccpA$

# RL36\_STAAM

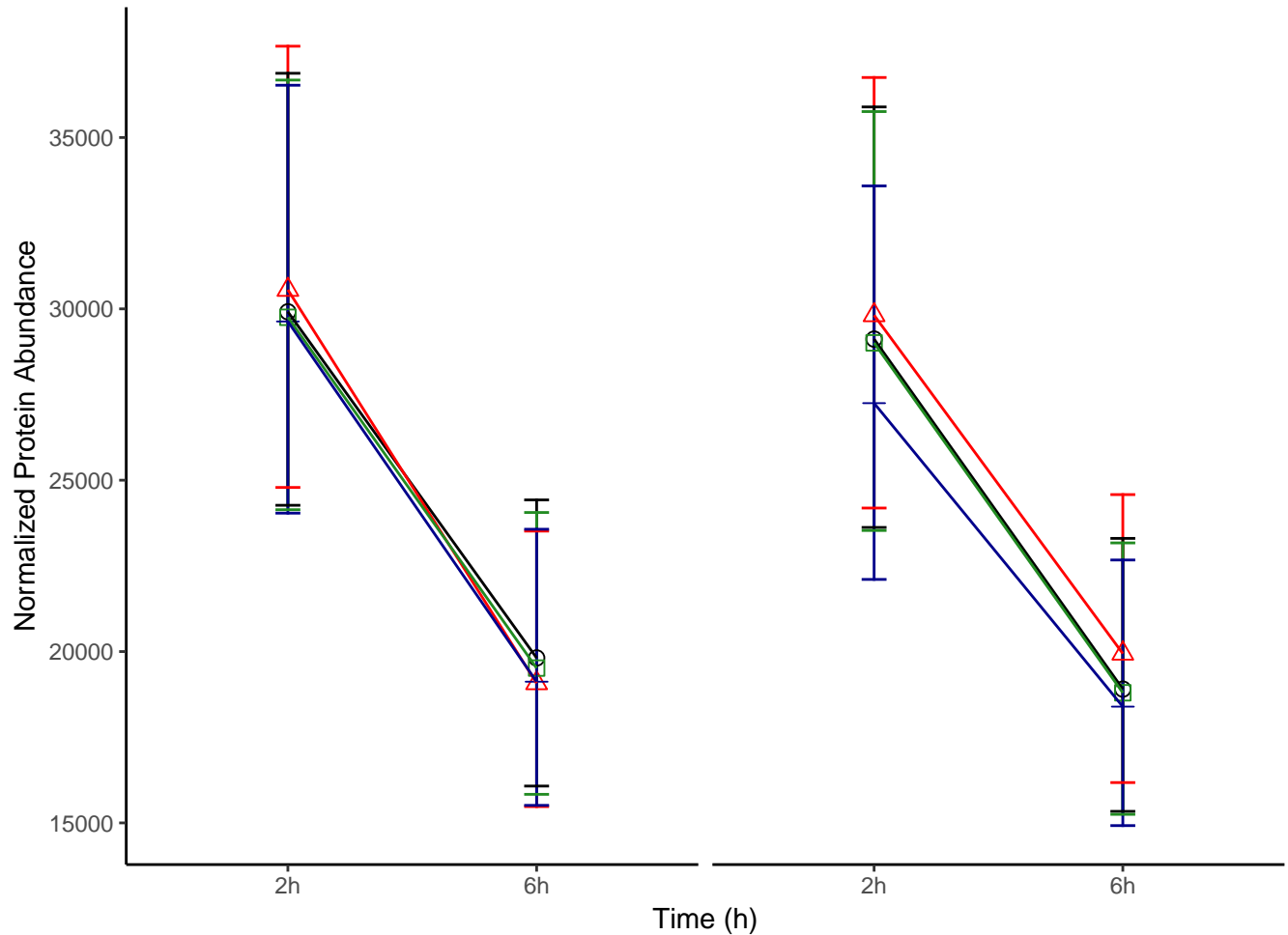


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL4\_STAAM

TSB

TSB-dex S-331

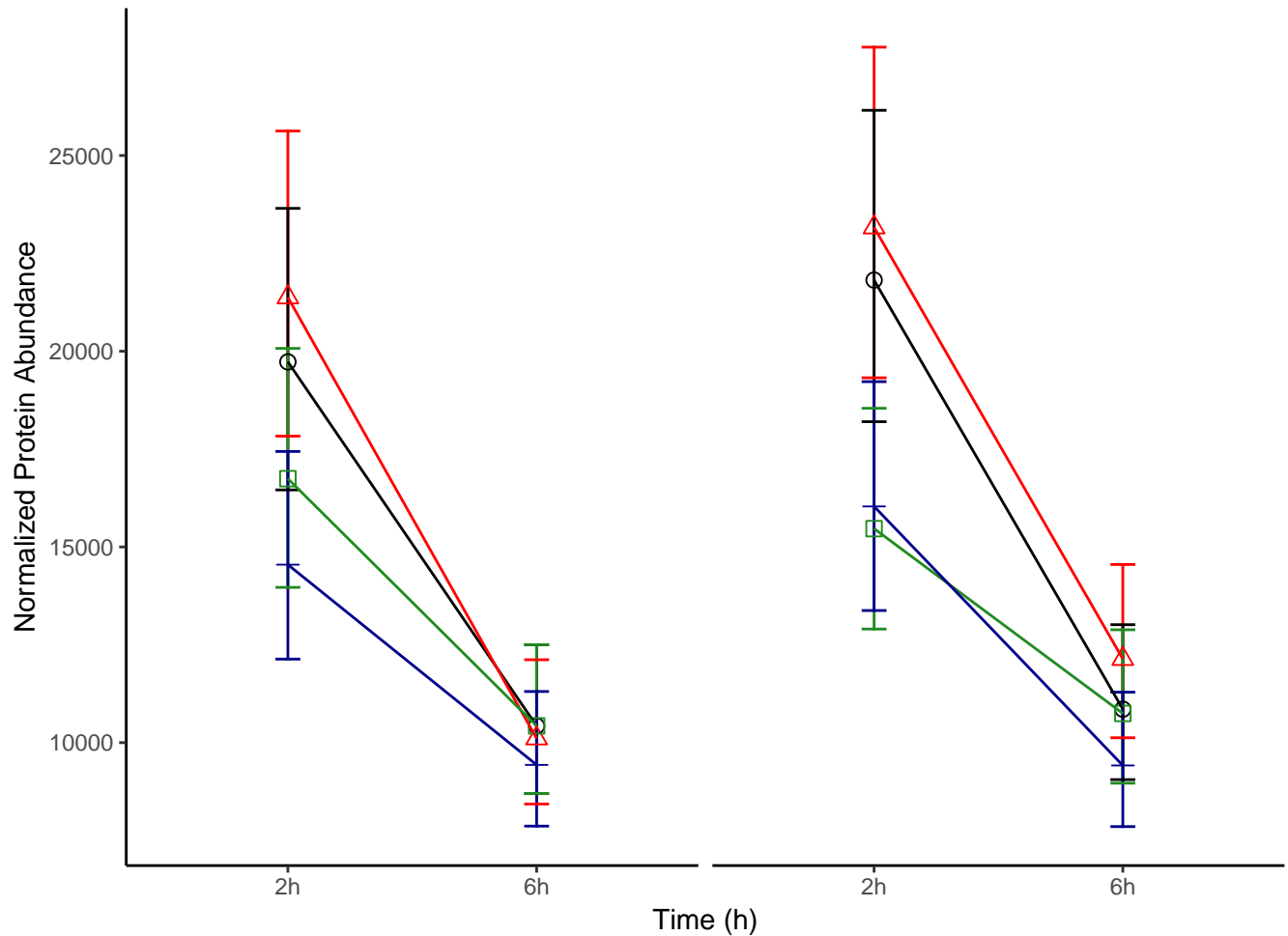


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL5\_STAAM

TSB

TSB-dex S-332

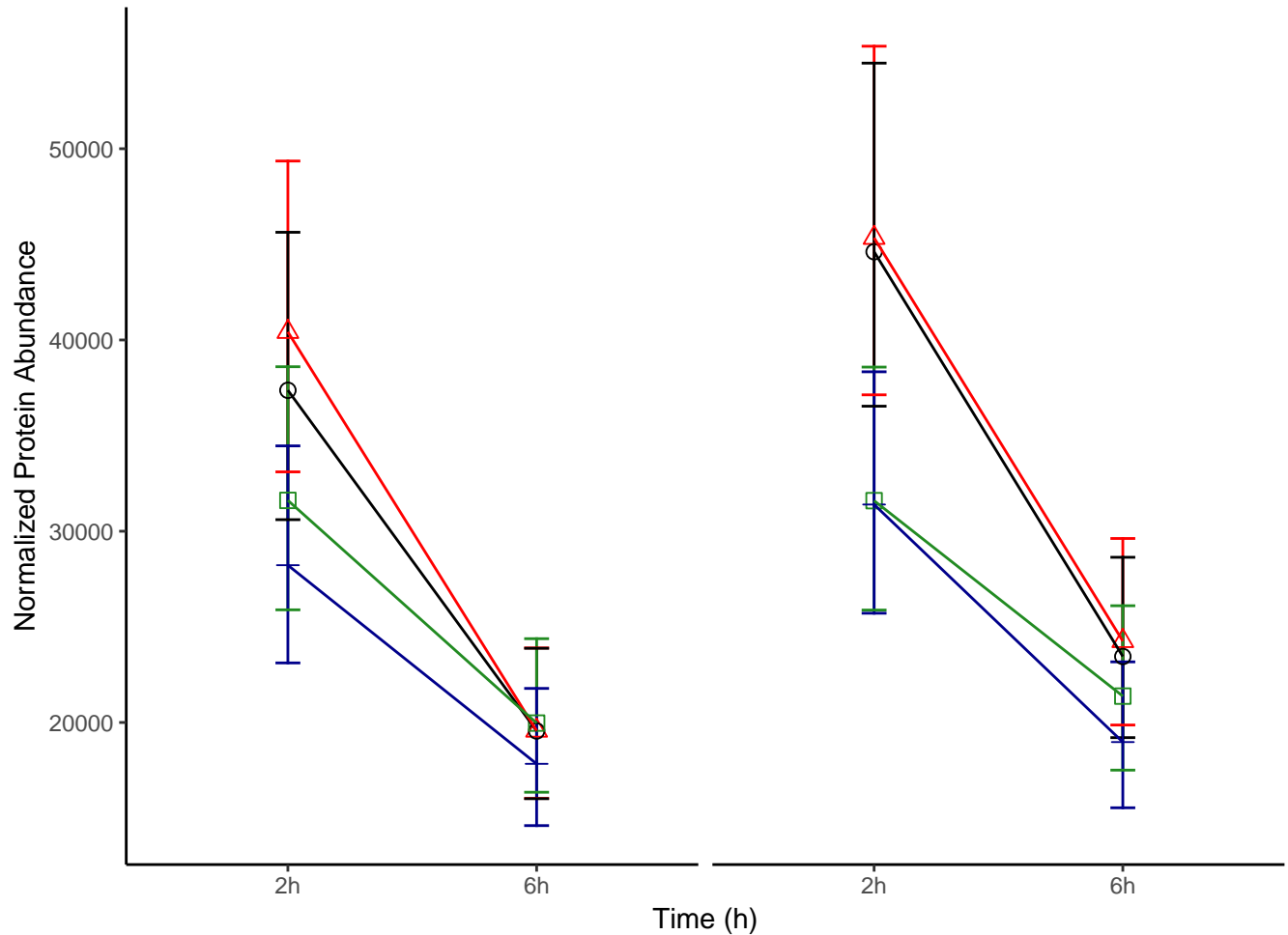


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL6\_STAAM

TSB

TSB-dex S-333

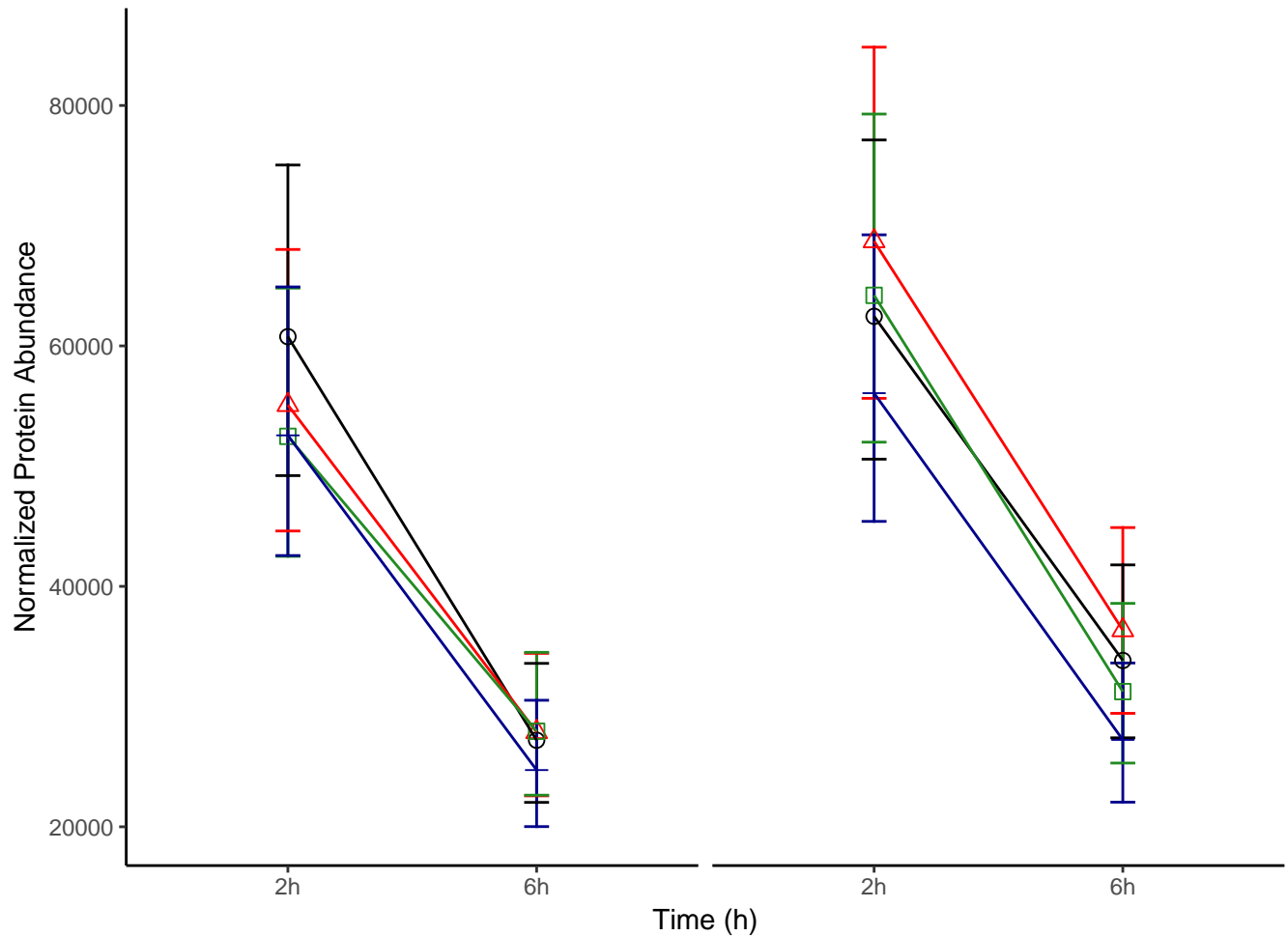


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL7\_STAAM

TSB

TSB-dex S-334

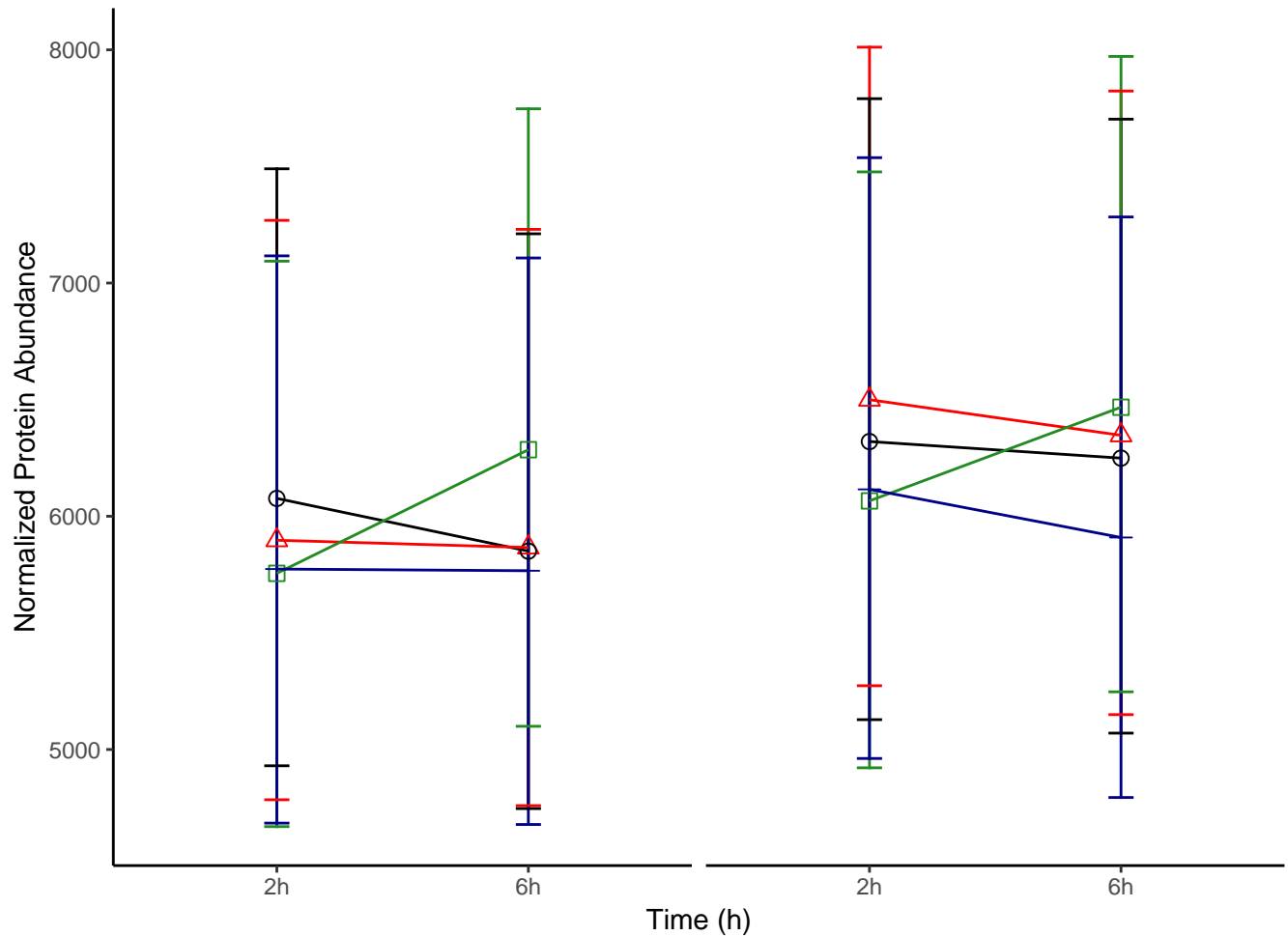


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL9\_STAAM

TSB

TSB-dex S-335

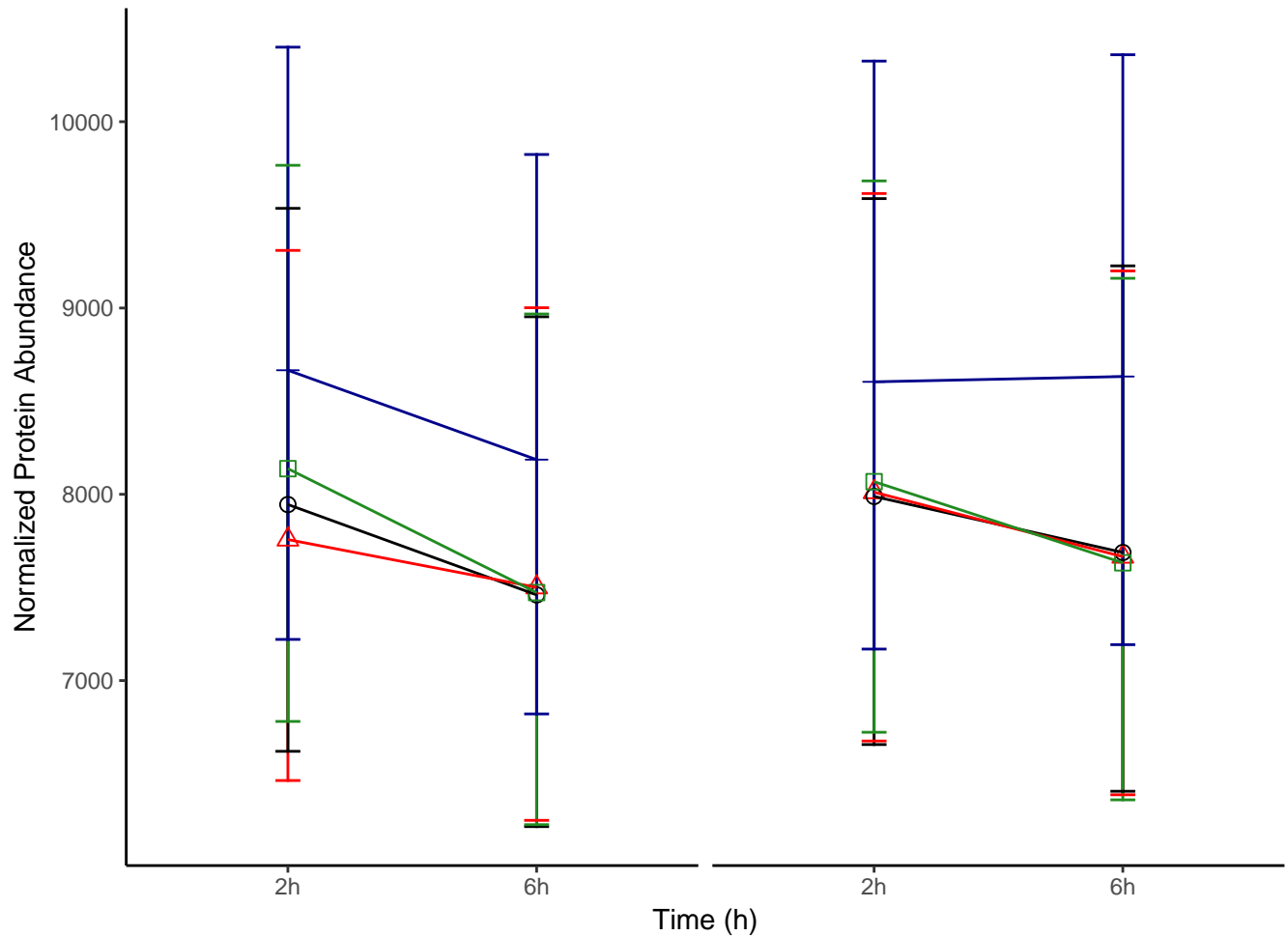


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RNJ1\_STAAM

TSB

TSB-dex S-336



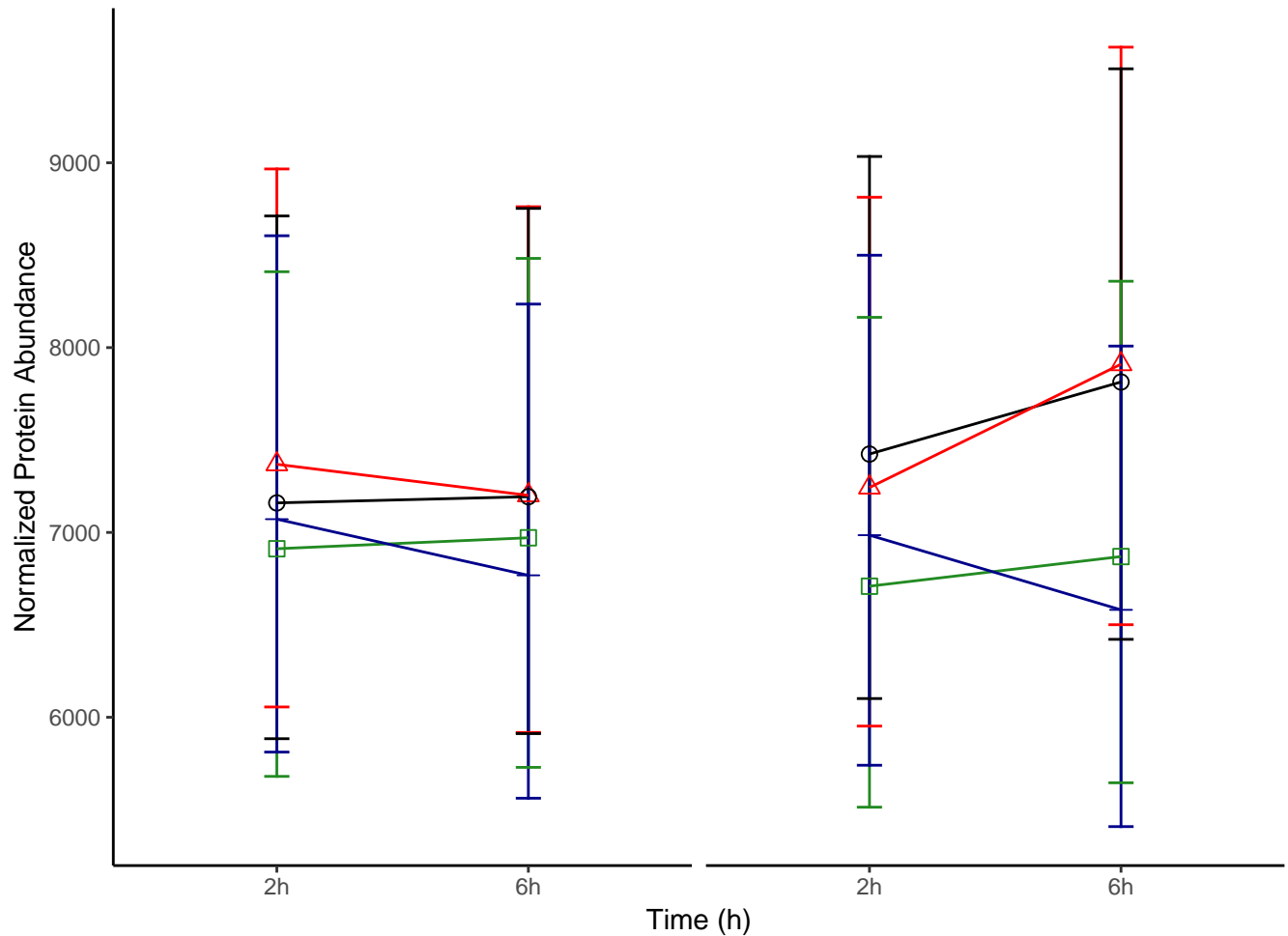
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# RNJ2\_STAAM

TSB

TSB-dex S-337

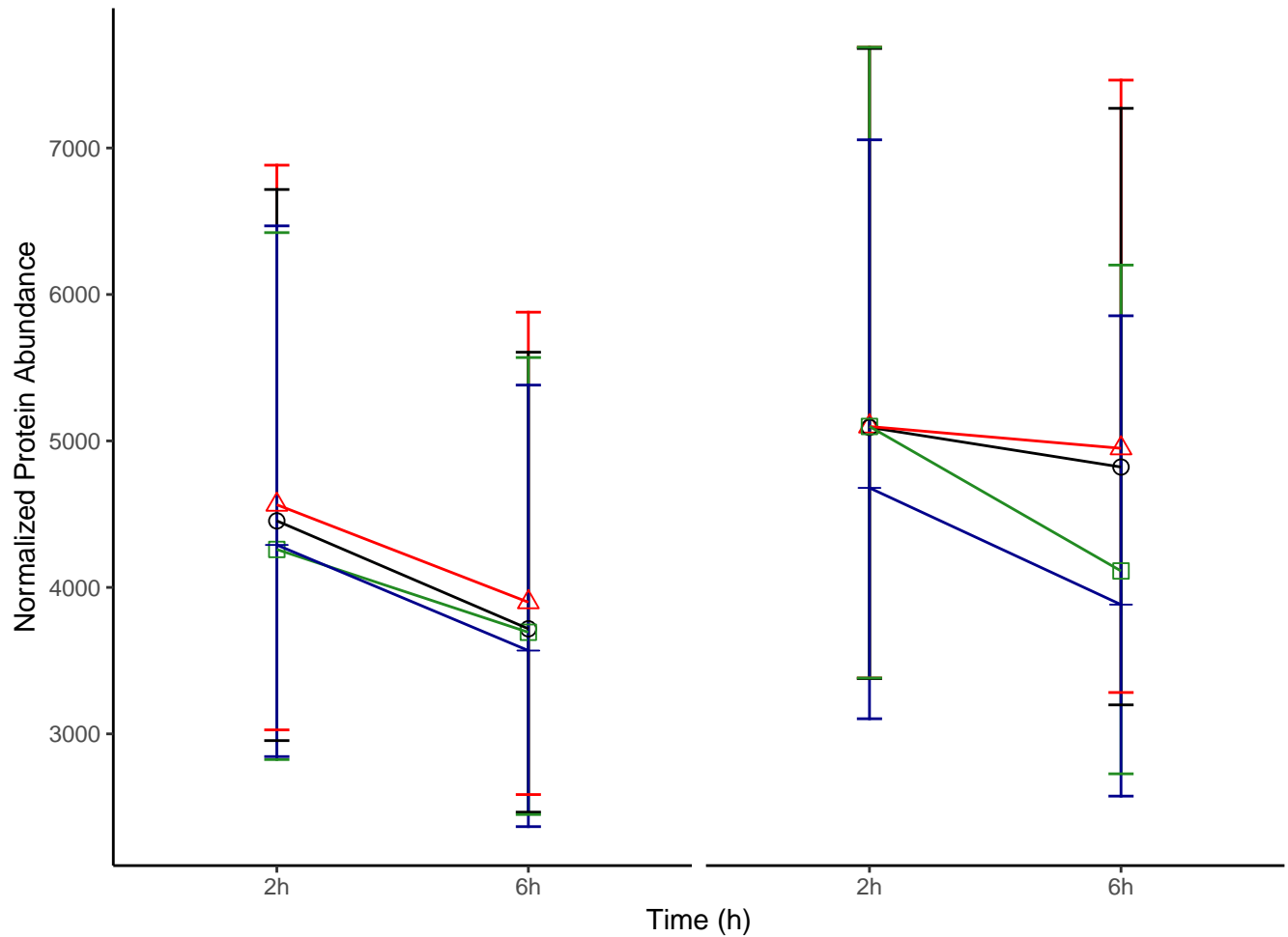


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RNY\_STAAM

TSB

TSB-dex S-338

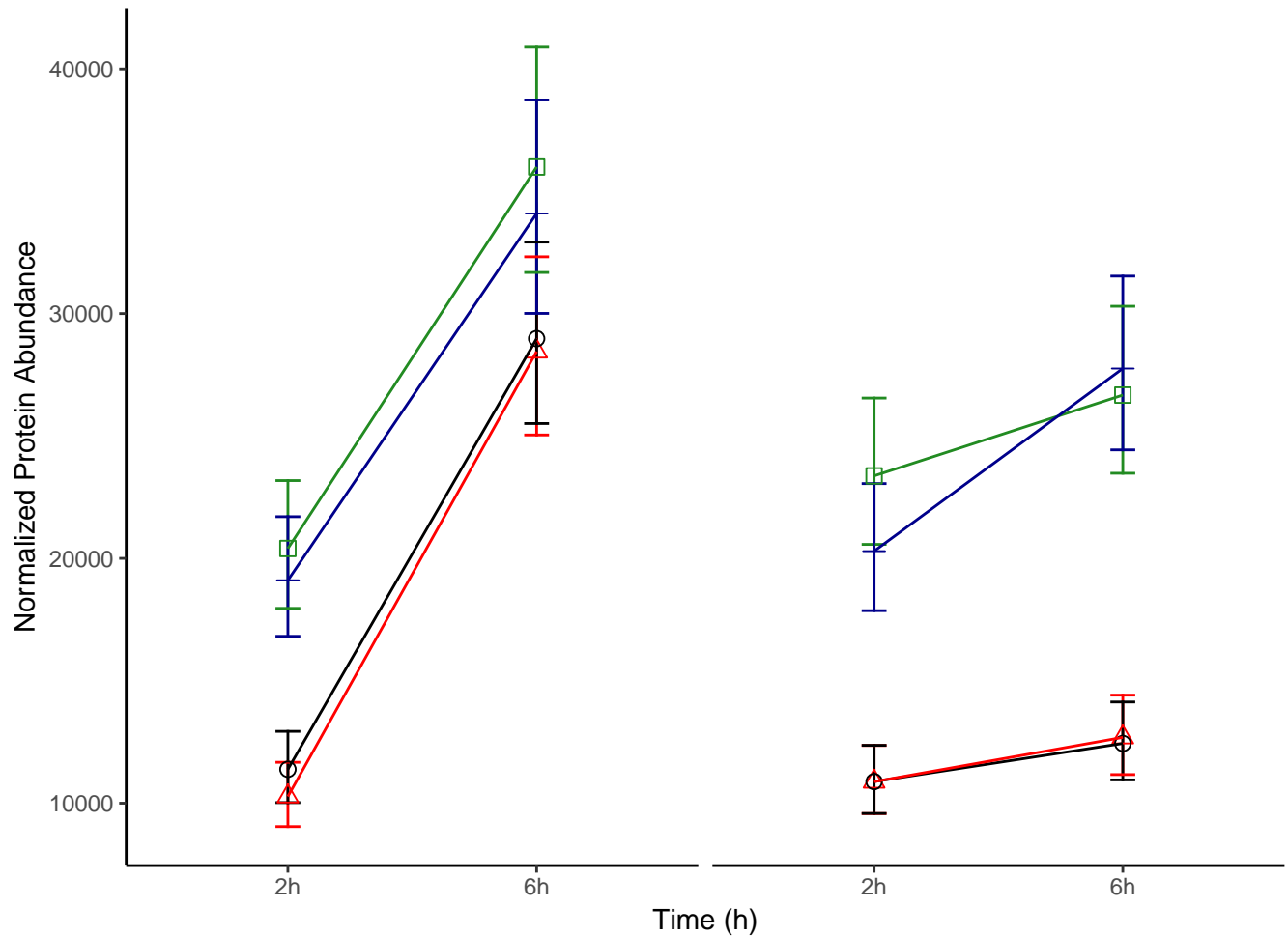


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ROCA\_STAAM

TSB

TSB-dex S-339

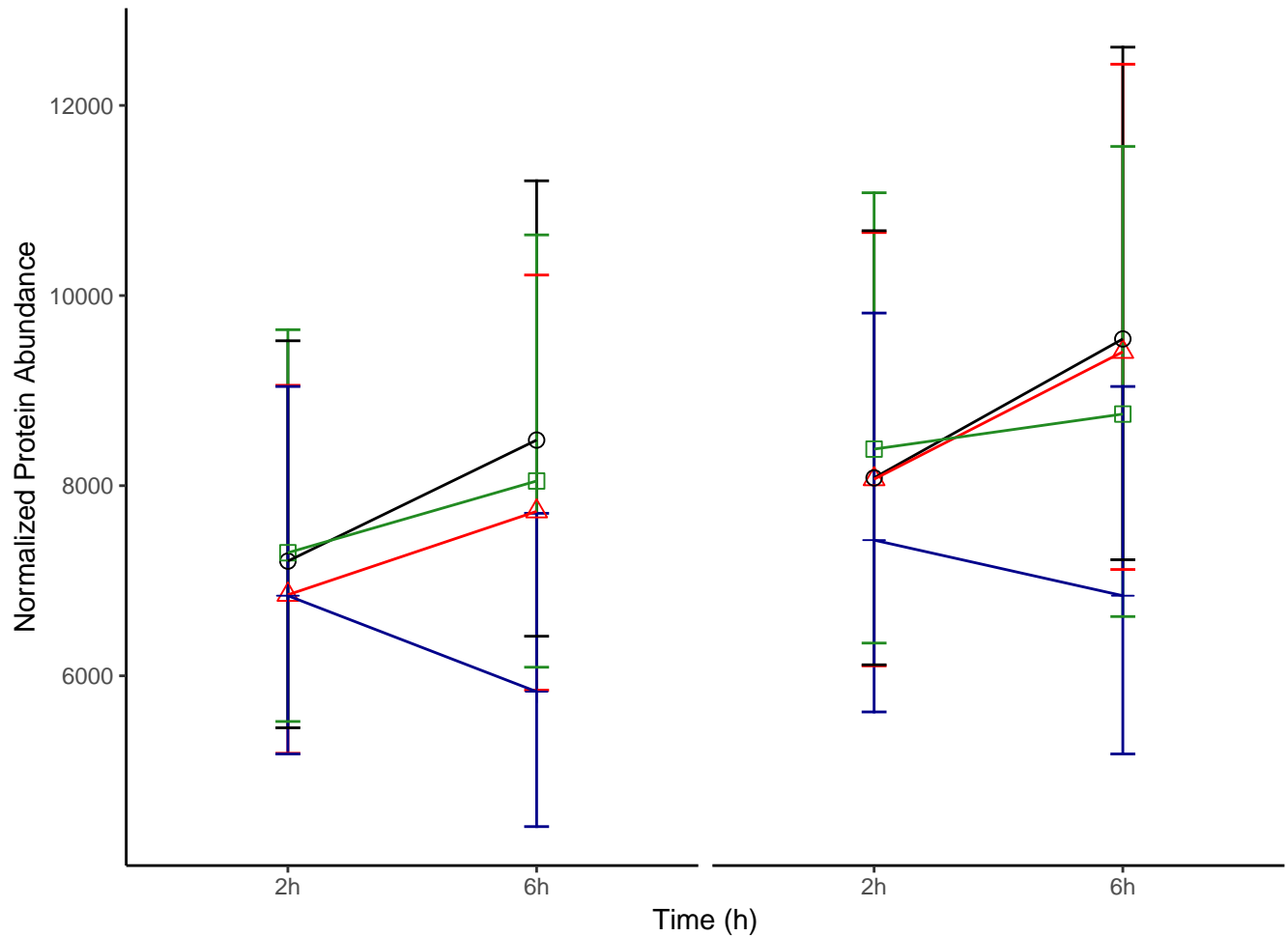


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ROT\_STAAM

TSB

TSB-dex S-340

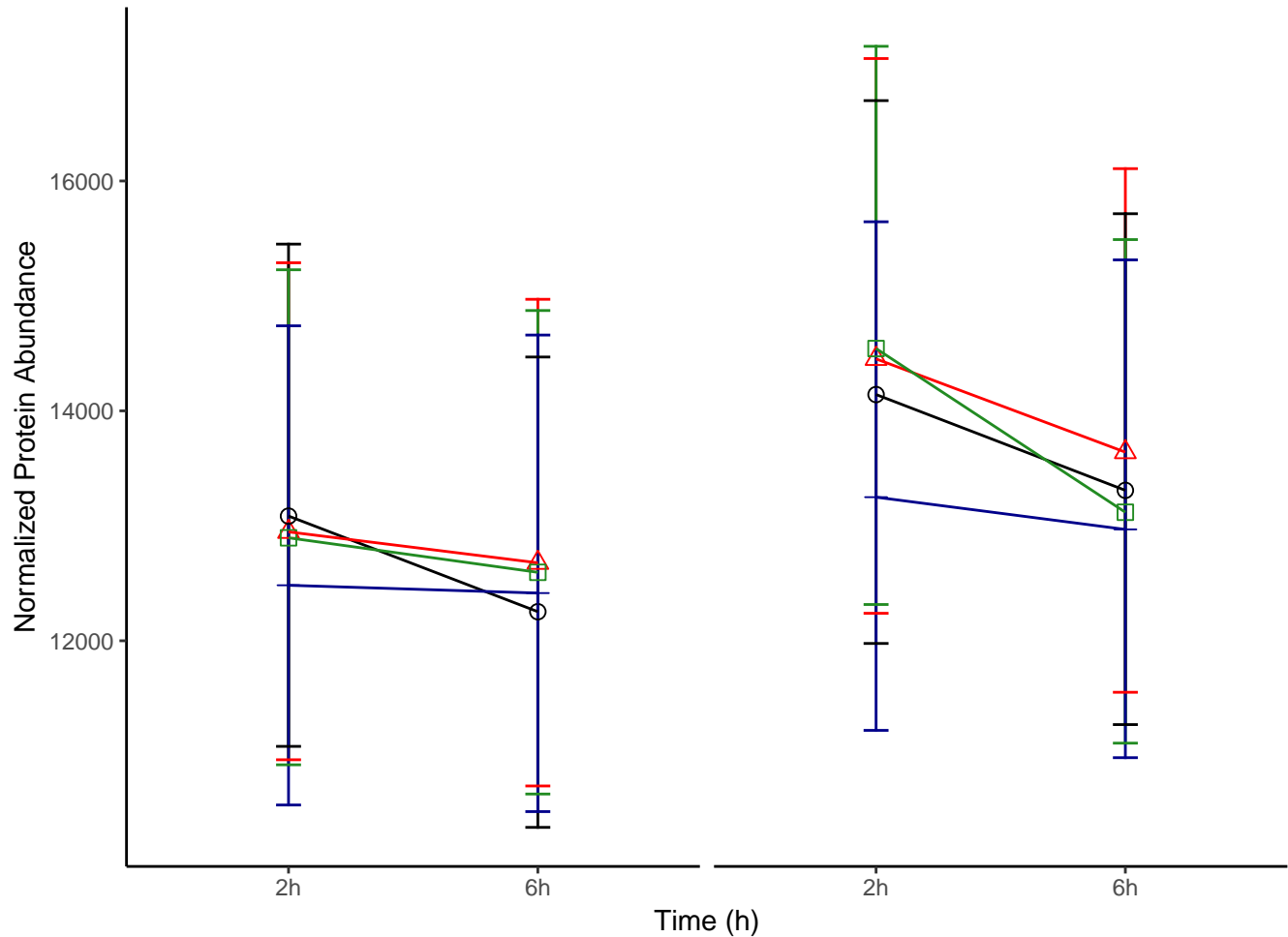


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOA\_STAAM

TSB

TSB-dex S-341

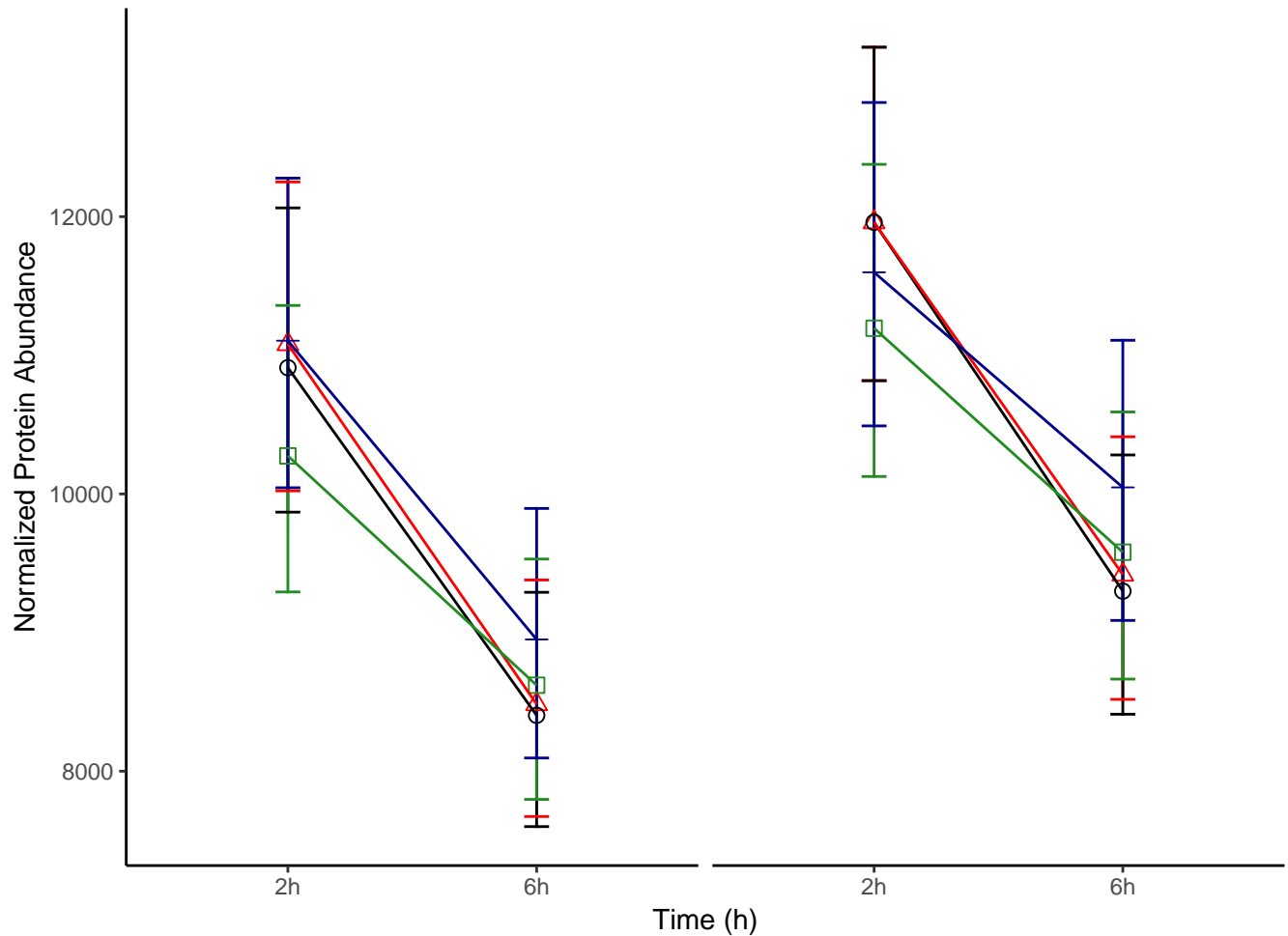


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOB\_STAAM

TSB

TSB-dex S-342

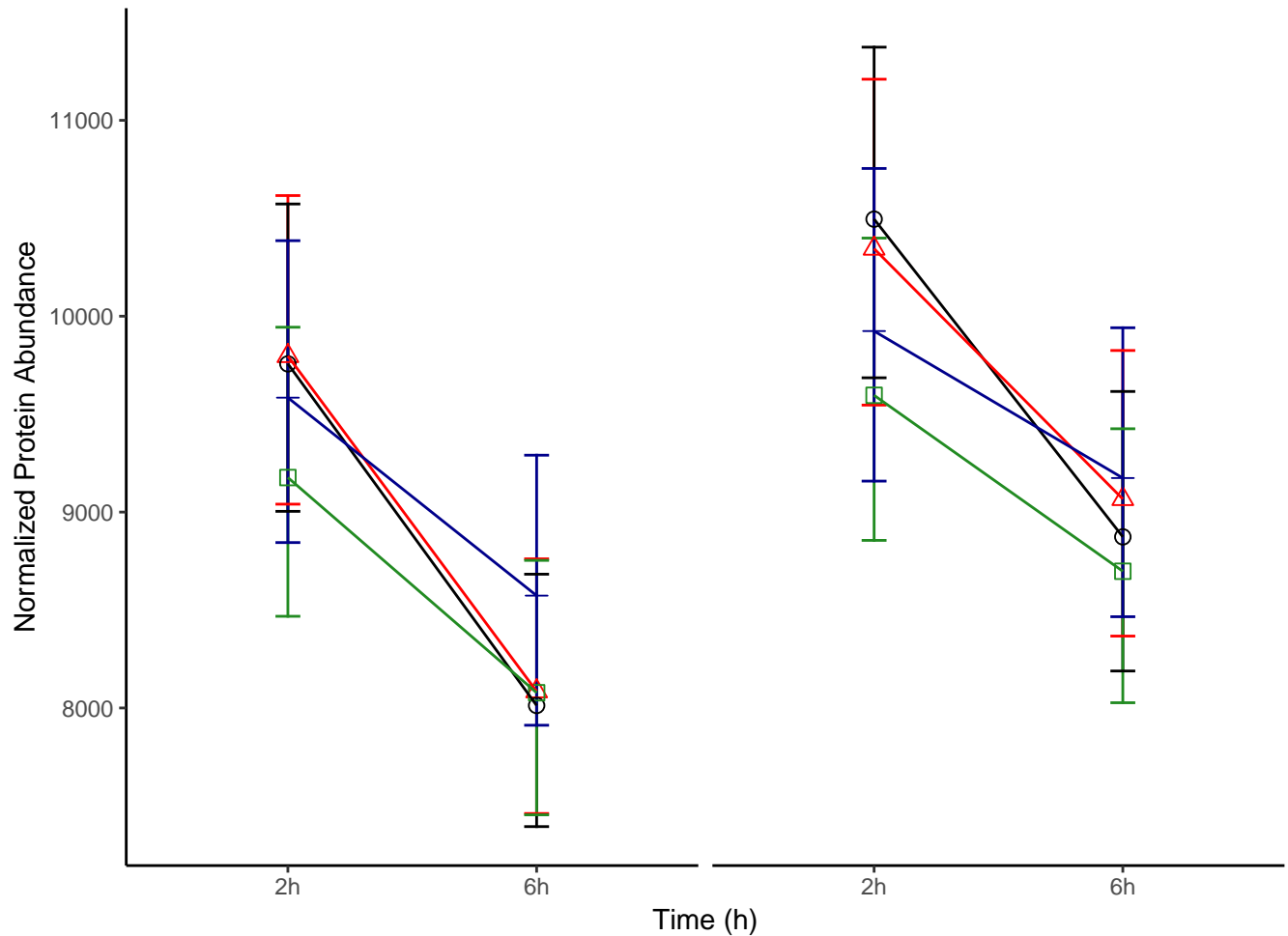


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOC\_STAAM

TSB

TSB-dex S-343



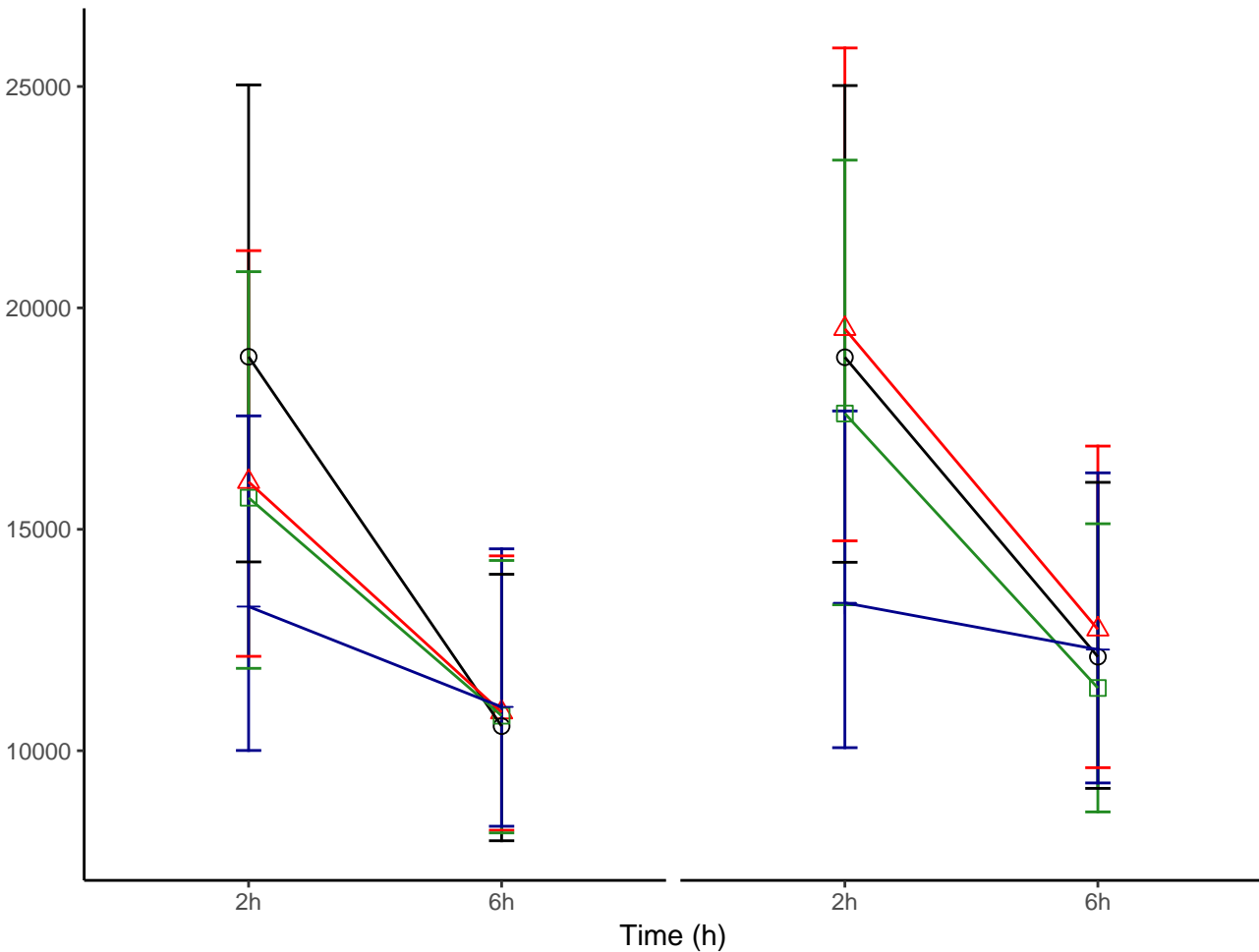
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOE\_STAAM

TSB

TSB-dex S-344

Normalized Protein Abundance



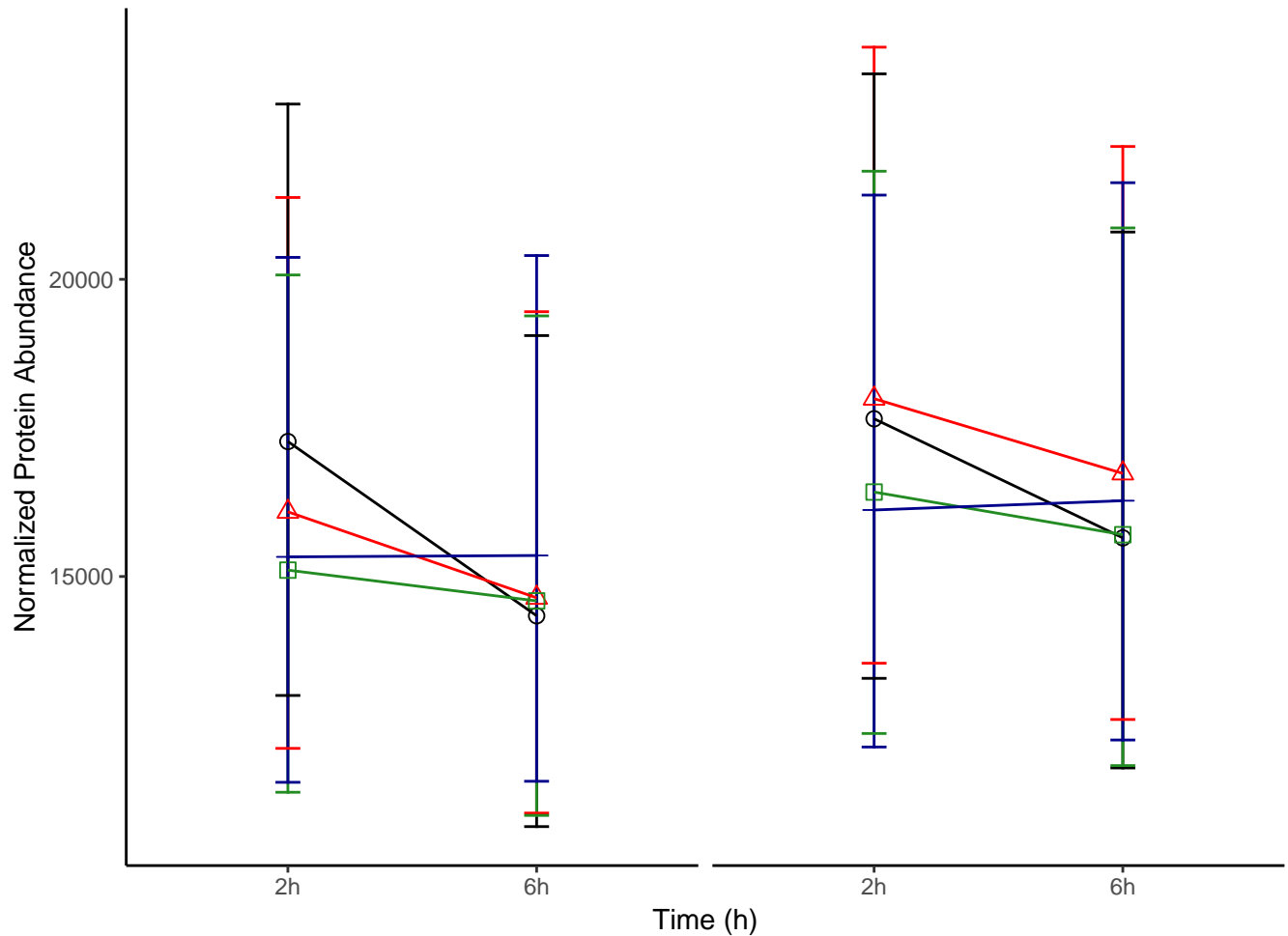
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RPOZ\_STAAM

TSB

TSB-dex S-345

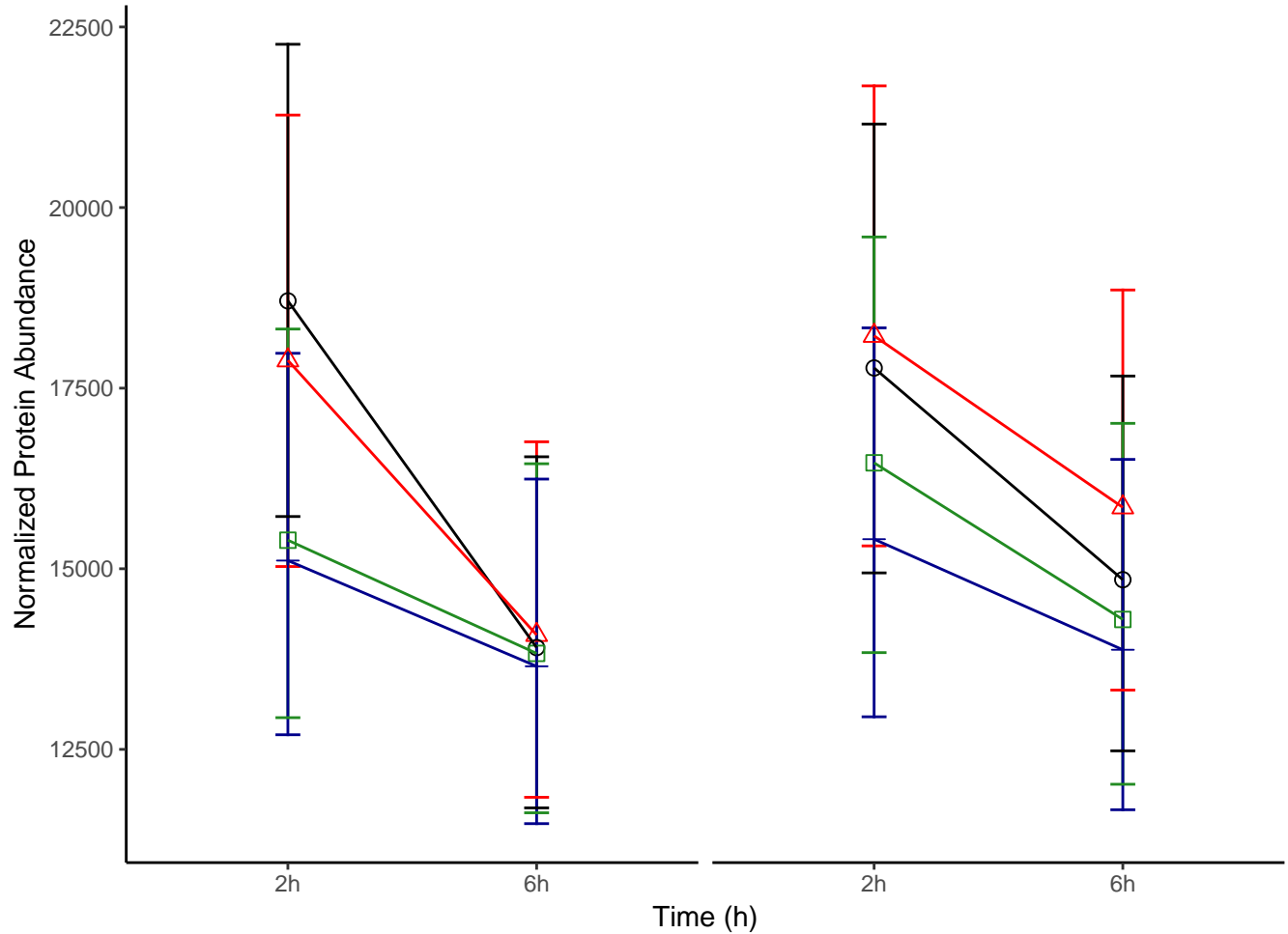


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RRF\_STAAM

TSB

TSB-dex S-346

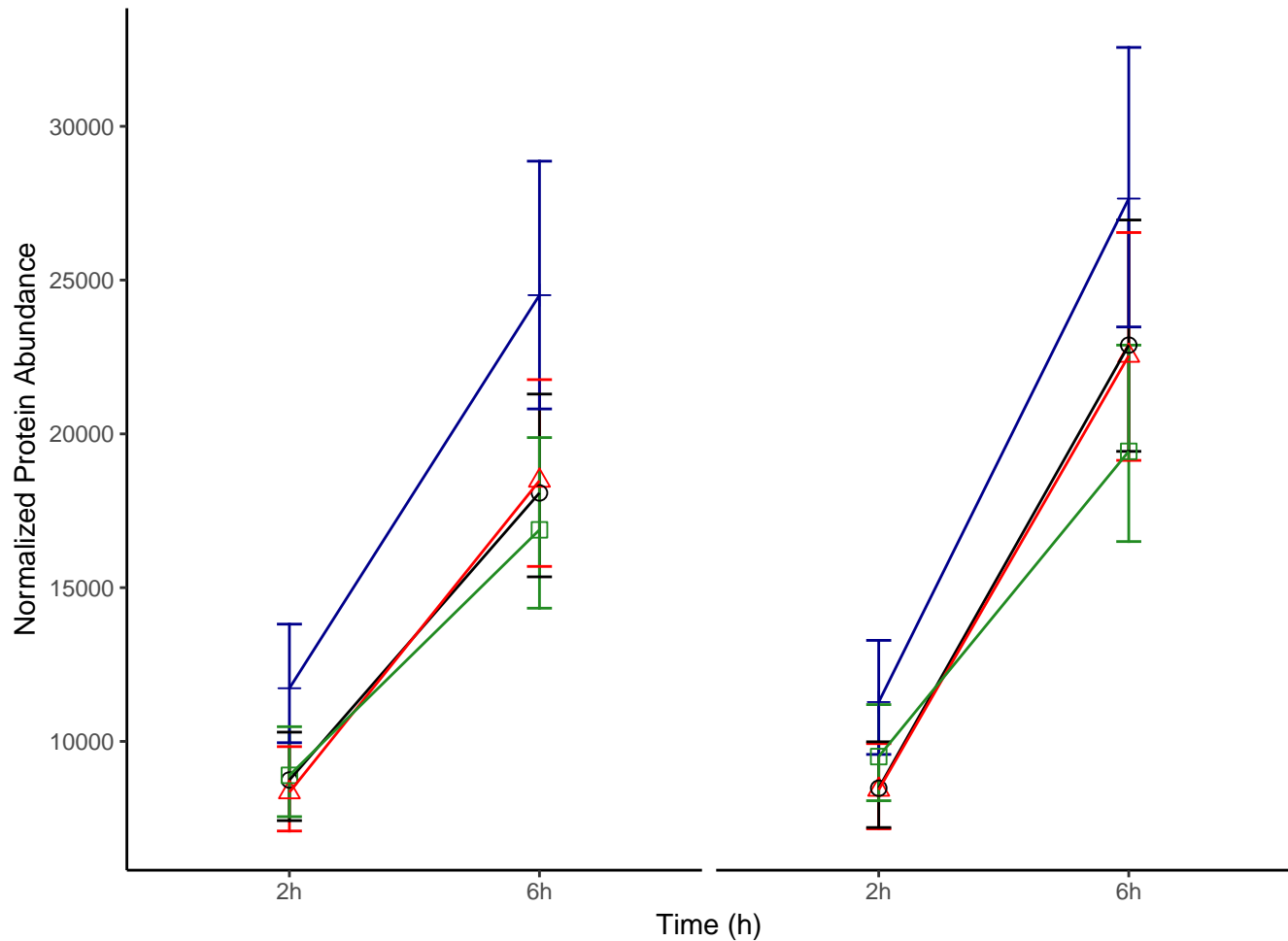


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RS1\_STAAM

TSB

TSB-dex S-347

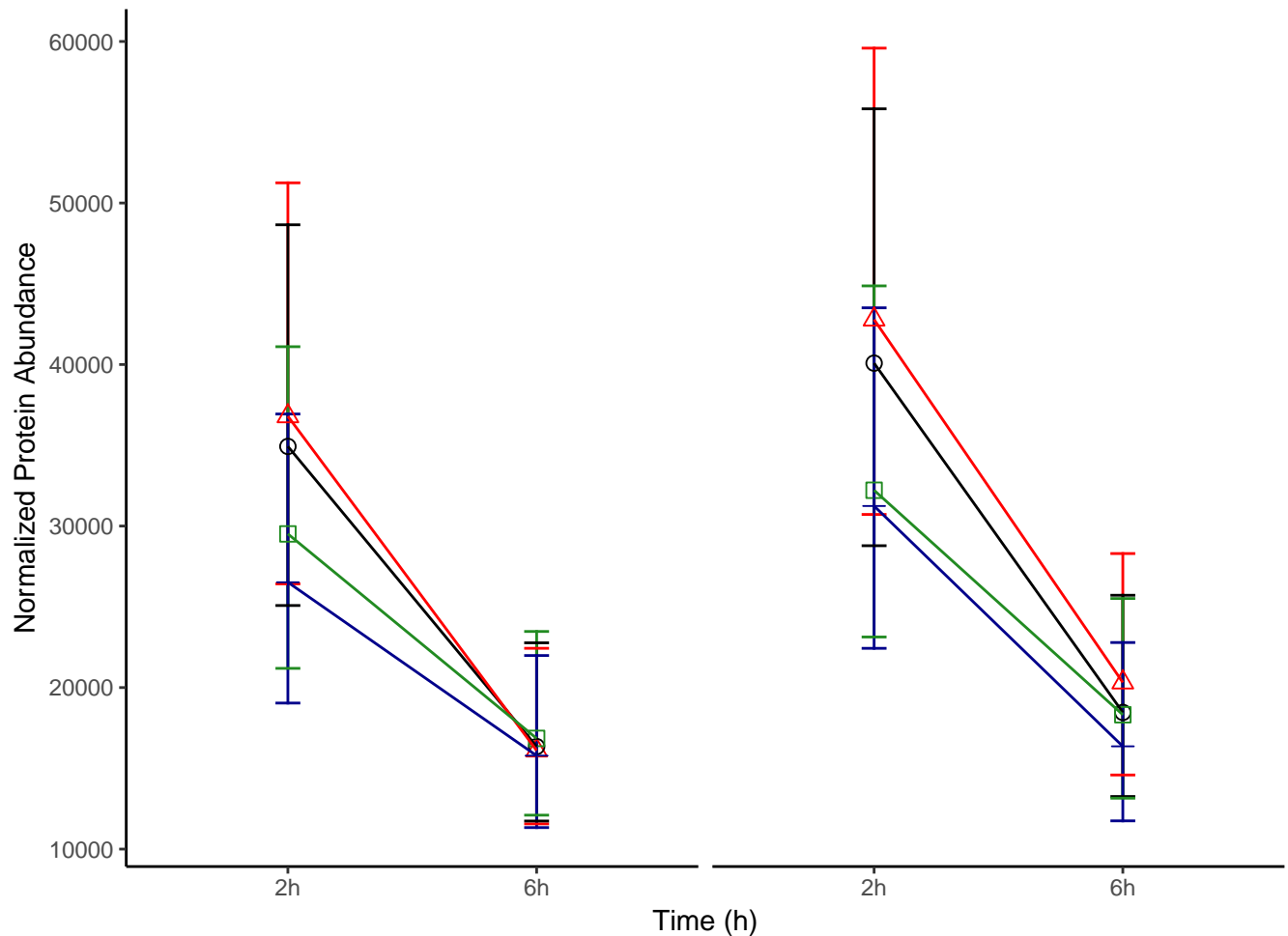


- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# RS10\_STAAM

TSB

TSB-dex S-348

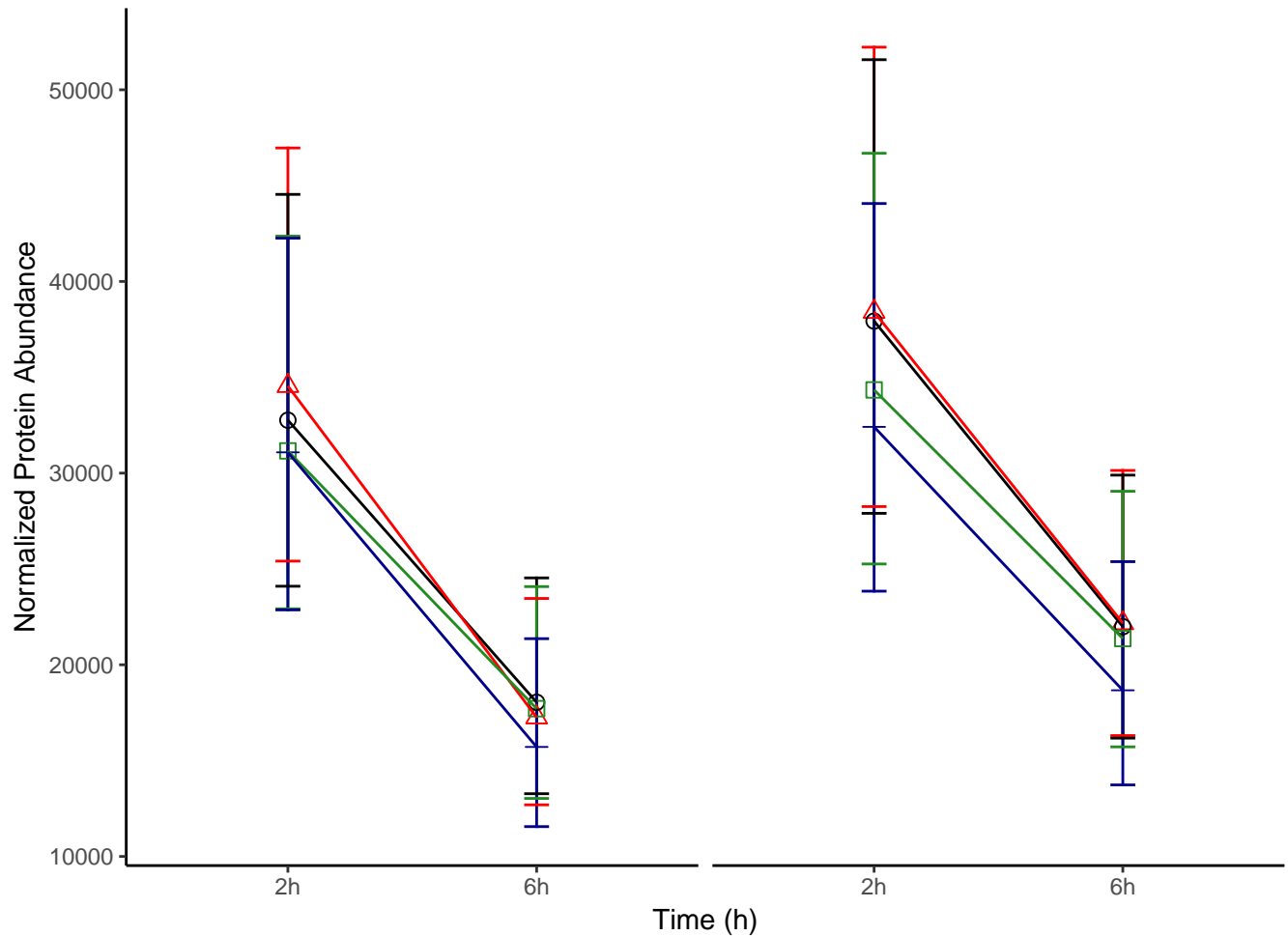


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RS11\_STAAM

TSB

TSB-dex S-349

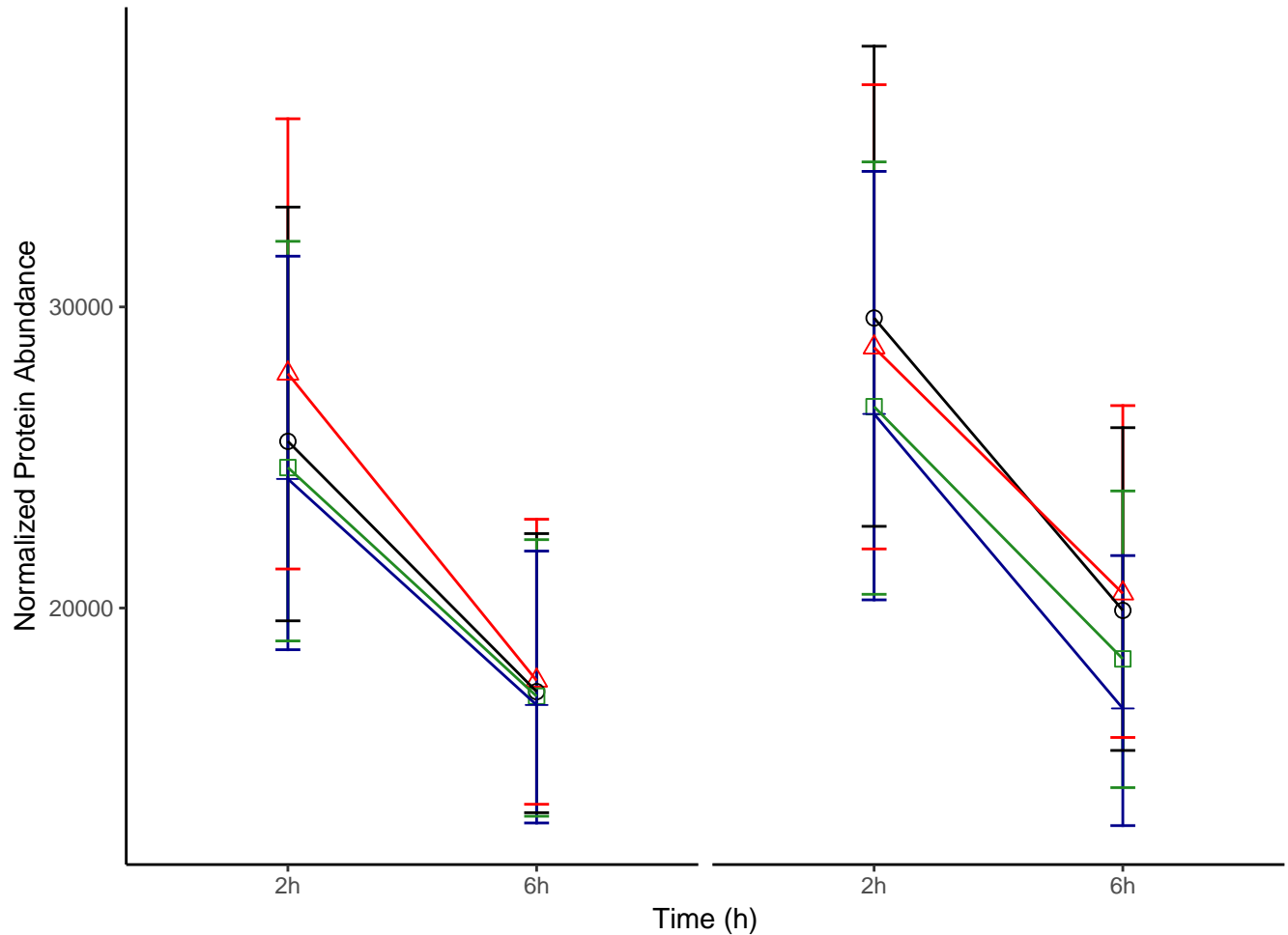


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS12\_STAAM

TSB

TSB-dex S-350

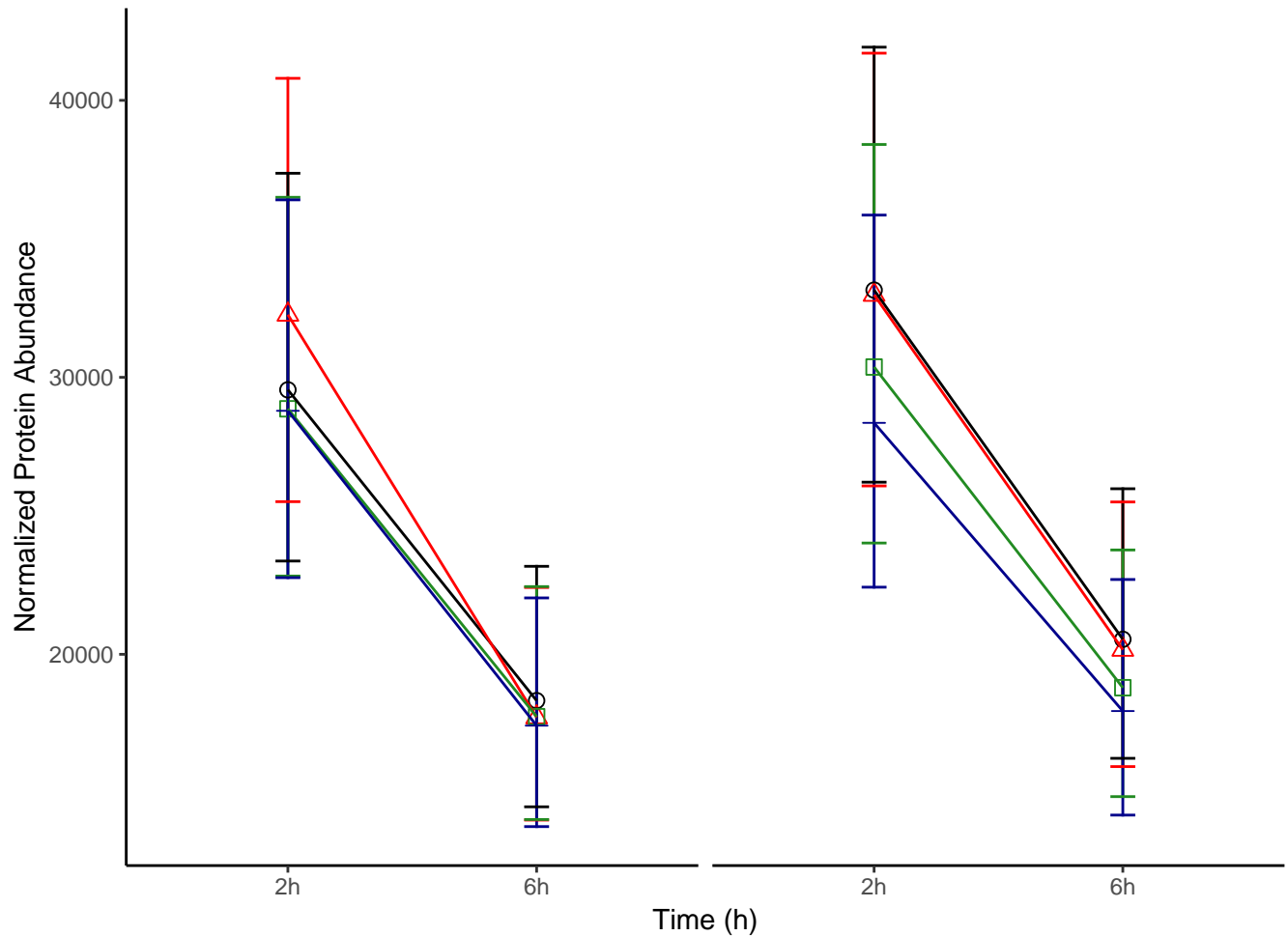


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS13\_STAAM

TSB

TSB-dex S-351

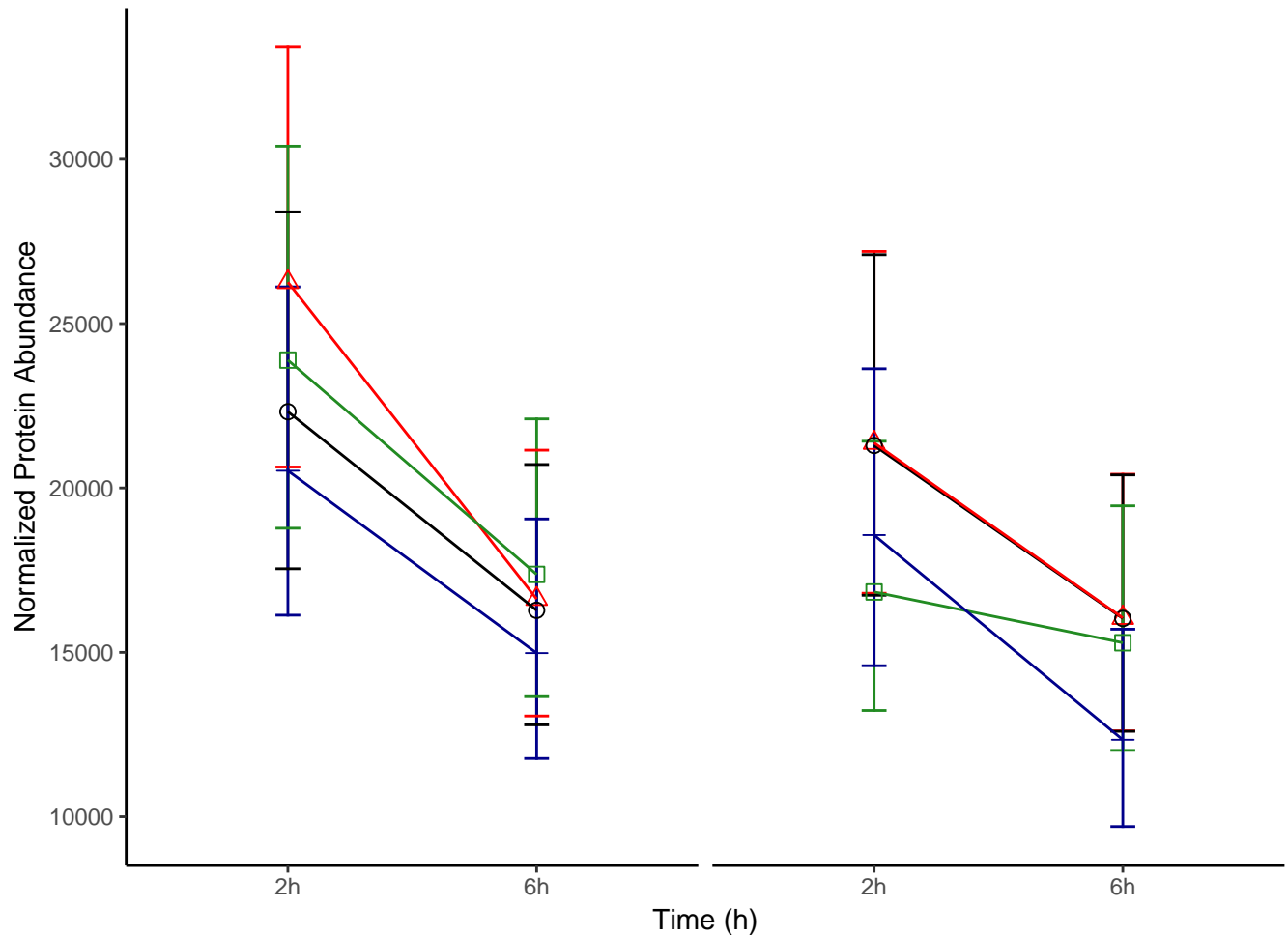


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS15\_STAAM

TSB

TSB-dex S-352



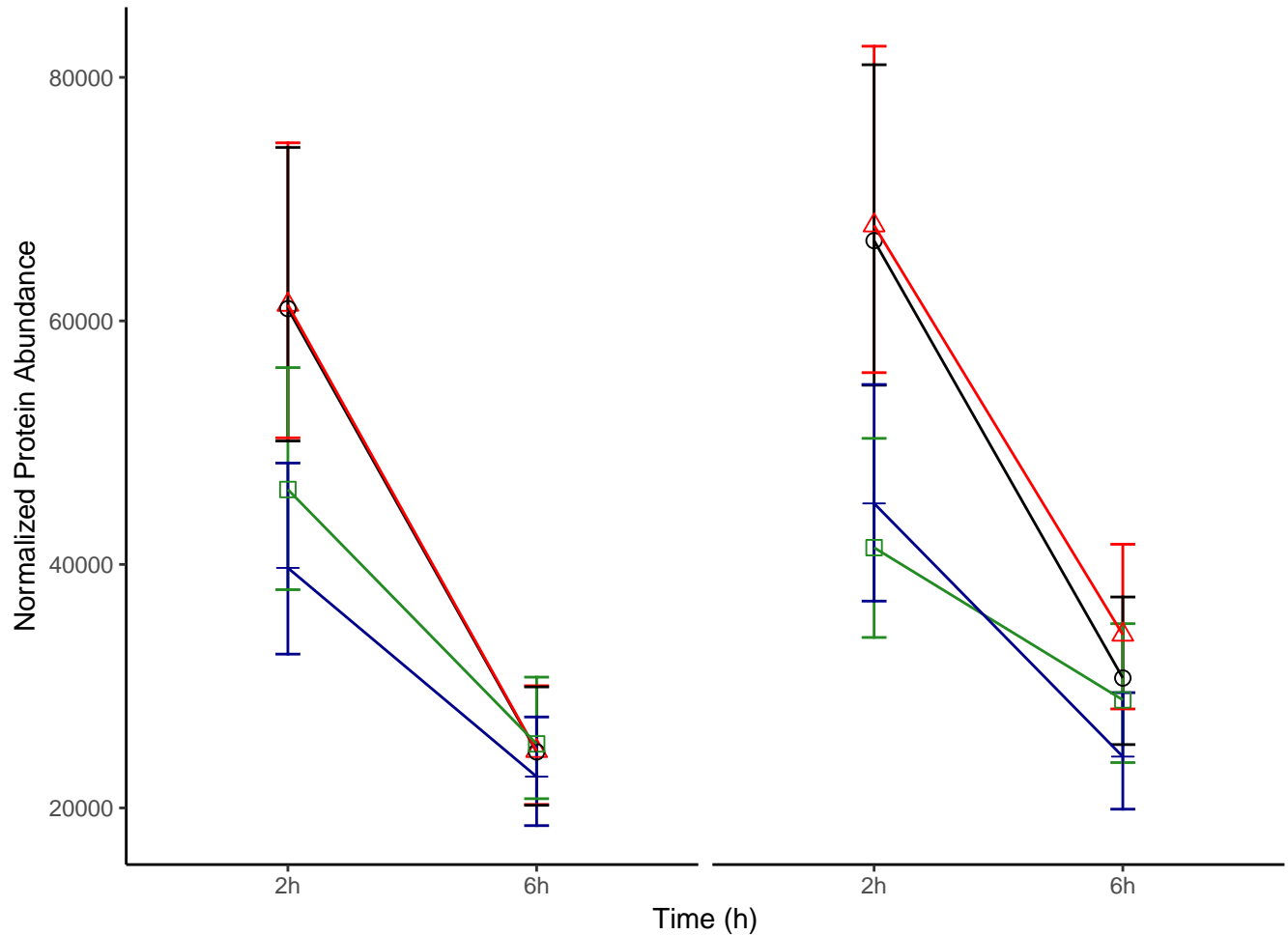
- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# RS16\_STAAM

TSB

TSB-dex S-353

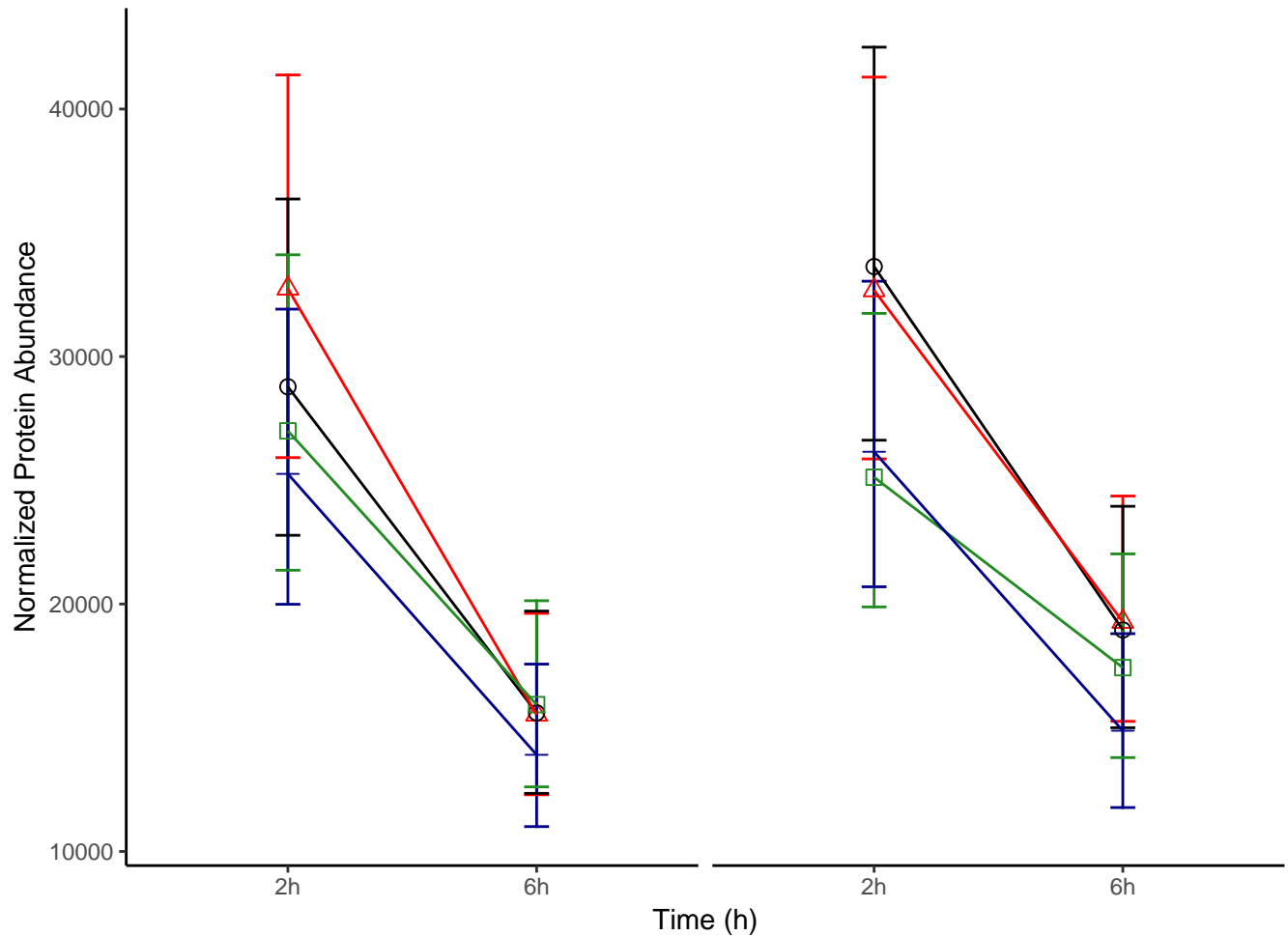


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS17\_STAAM

TSB

TSB-dex S-354

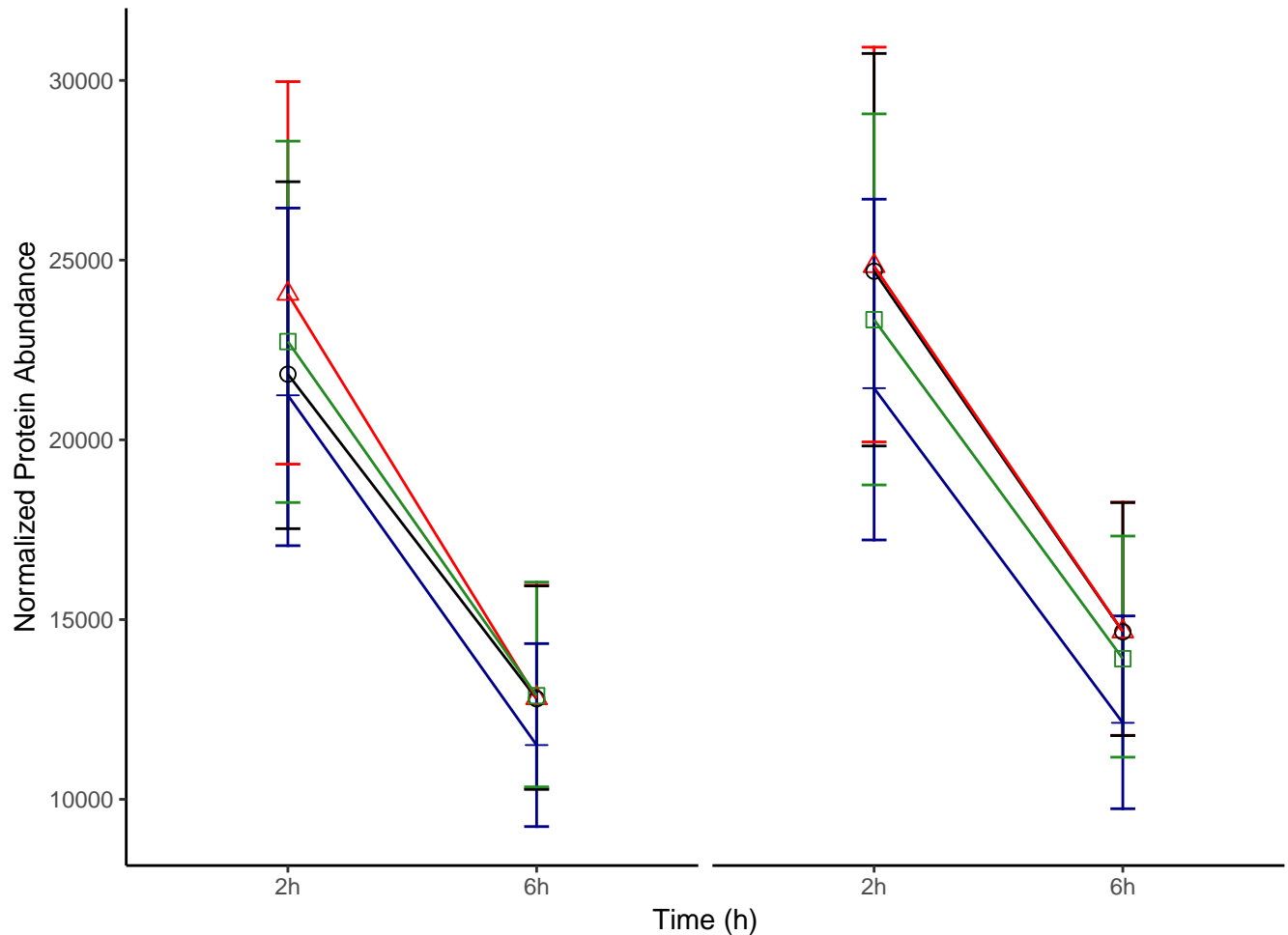


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RS18\_STAAM

TSB

TSB-dex S-355

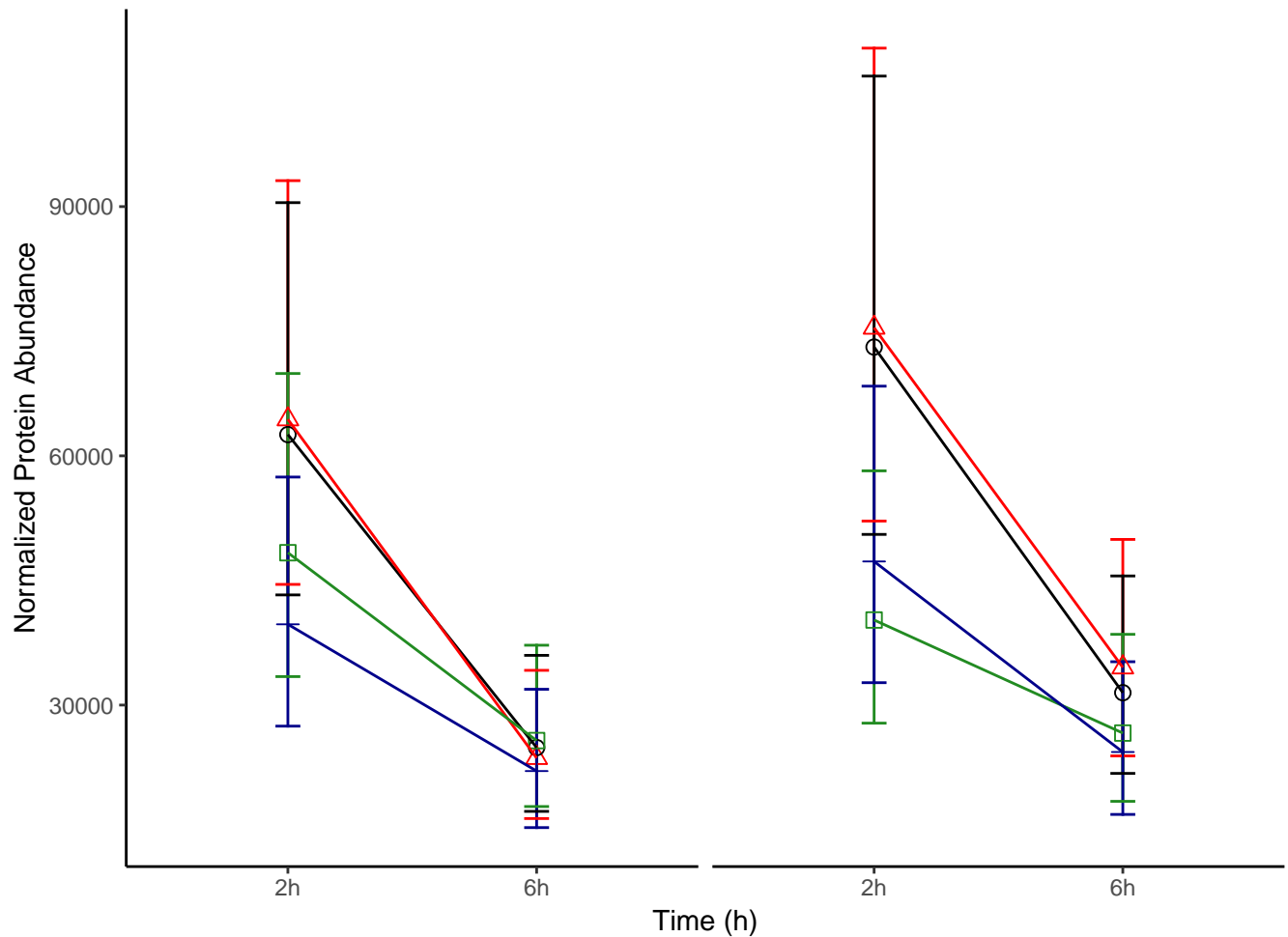


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS19\_STAAM

TSB

TSB-dex S-356

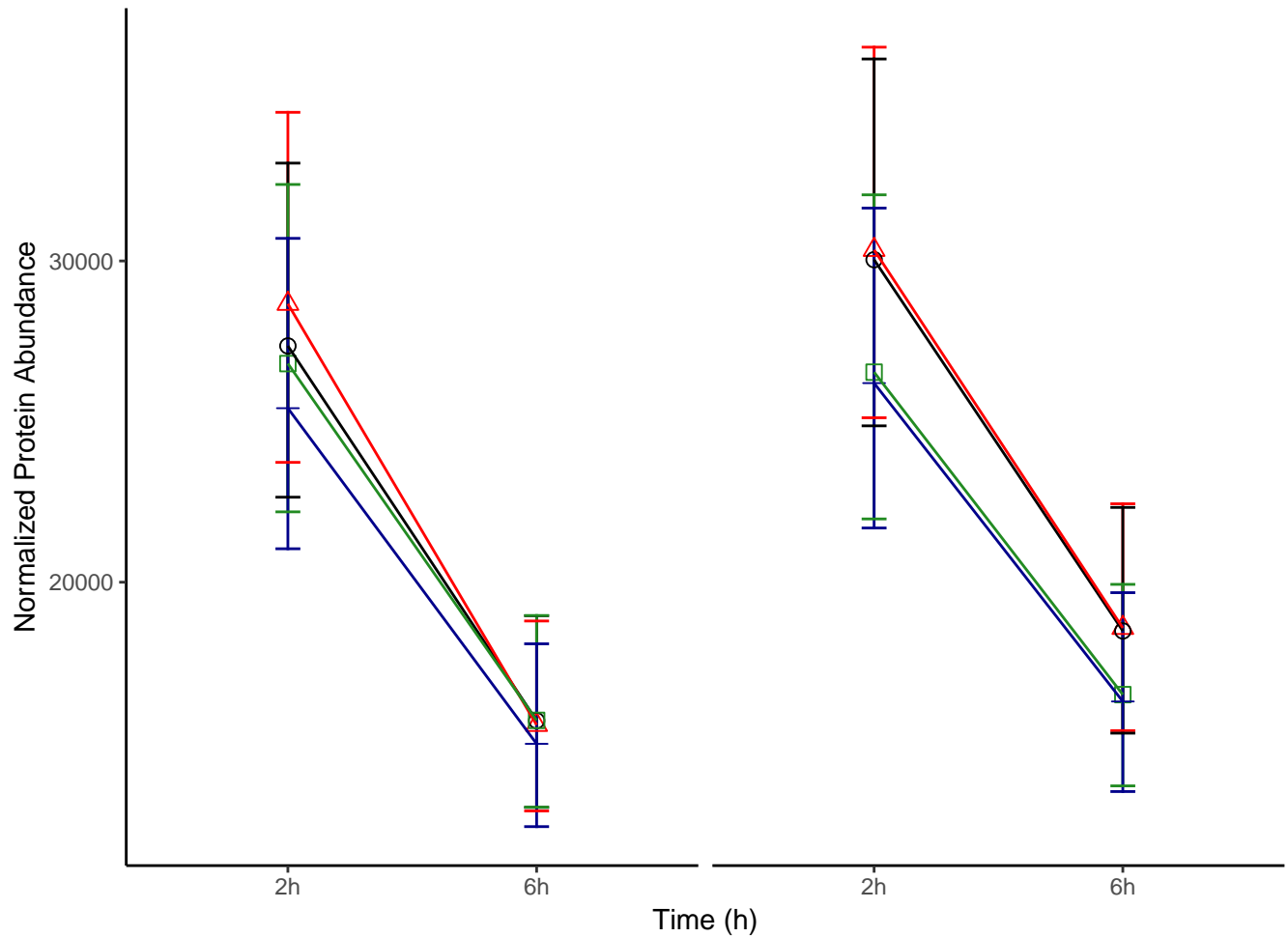


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RS2\_STAAM

TSB

TSB-dex S-357

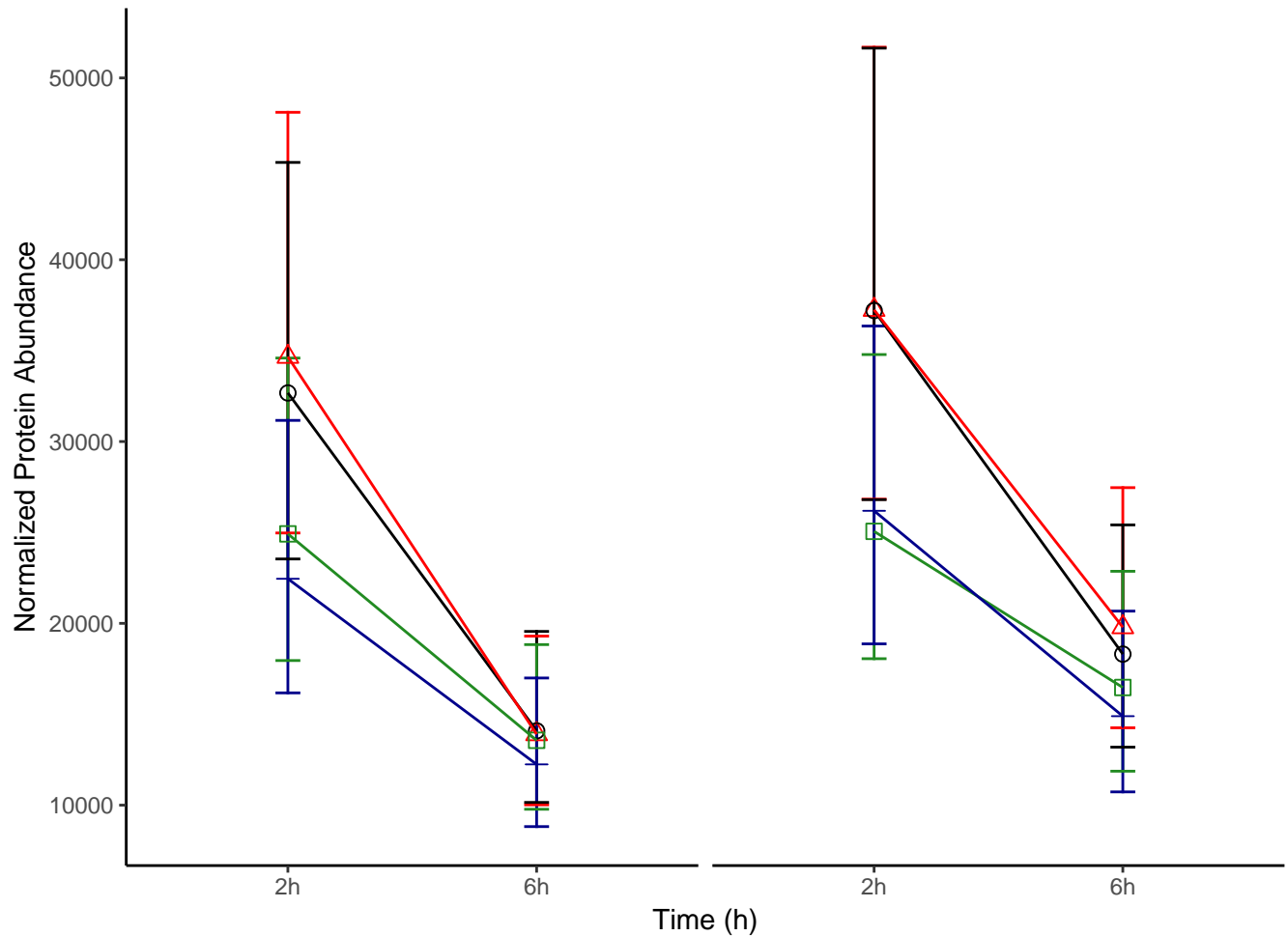


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS20\_STAAM

TSB

TSB-dex S-358

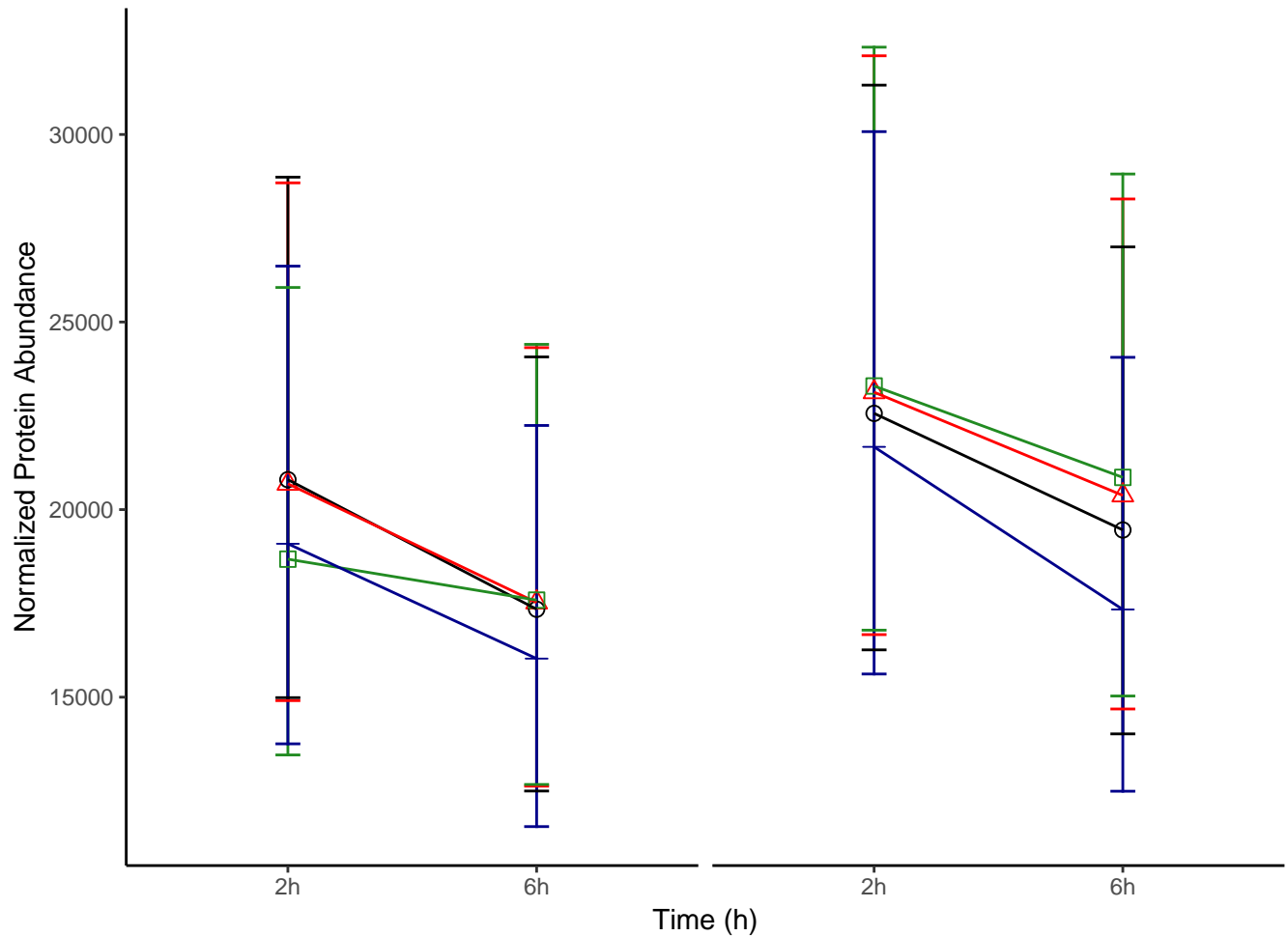


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RS21\_STAAM

TSB

TSB-dex S-359

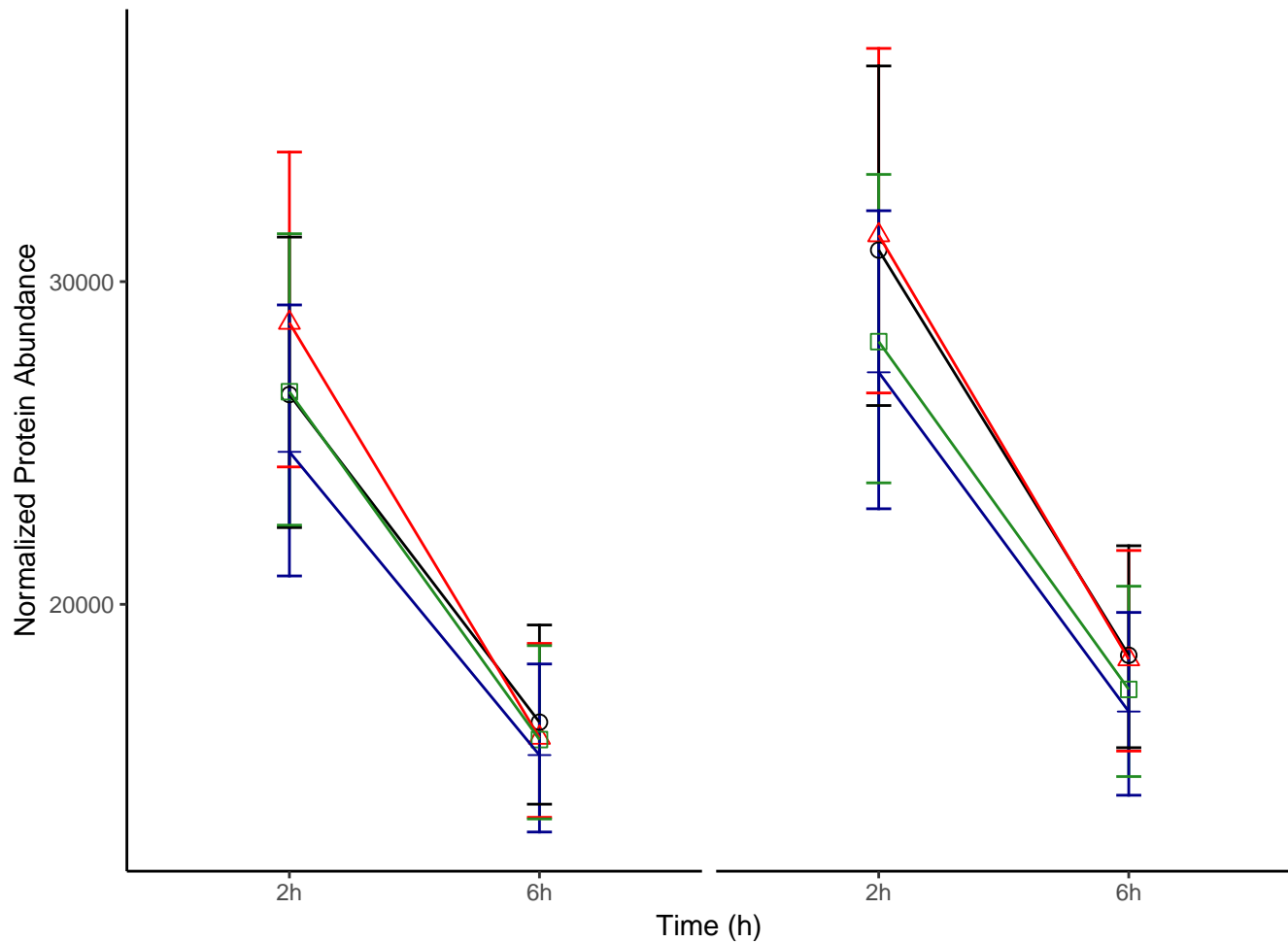


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS3\_STAAM

TSB

TSB-dex S-360



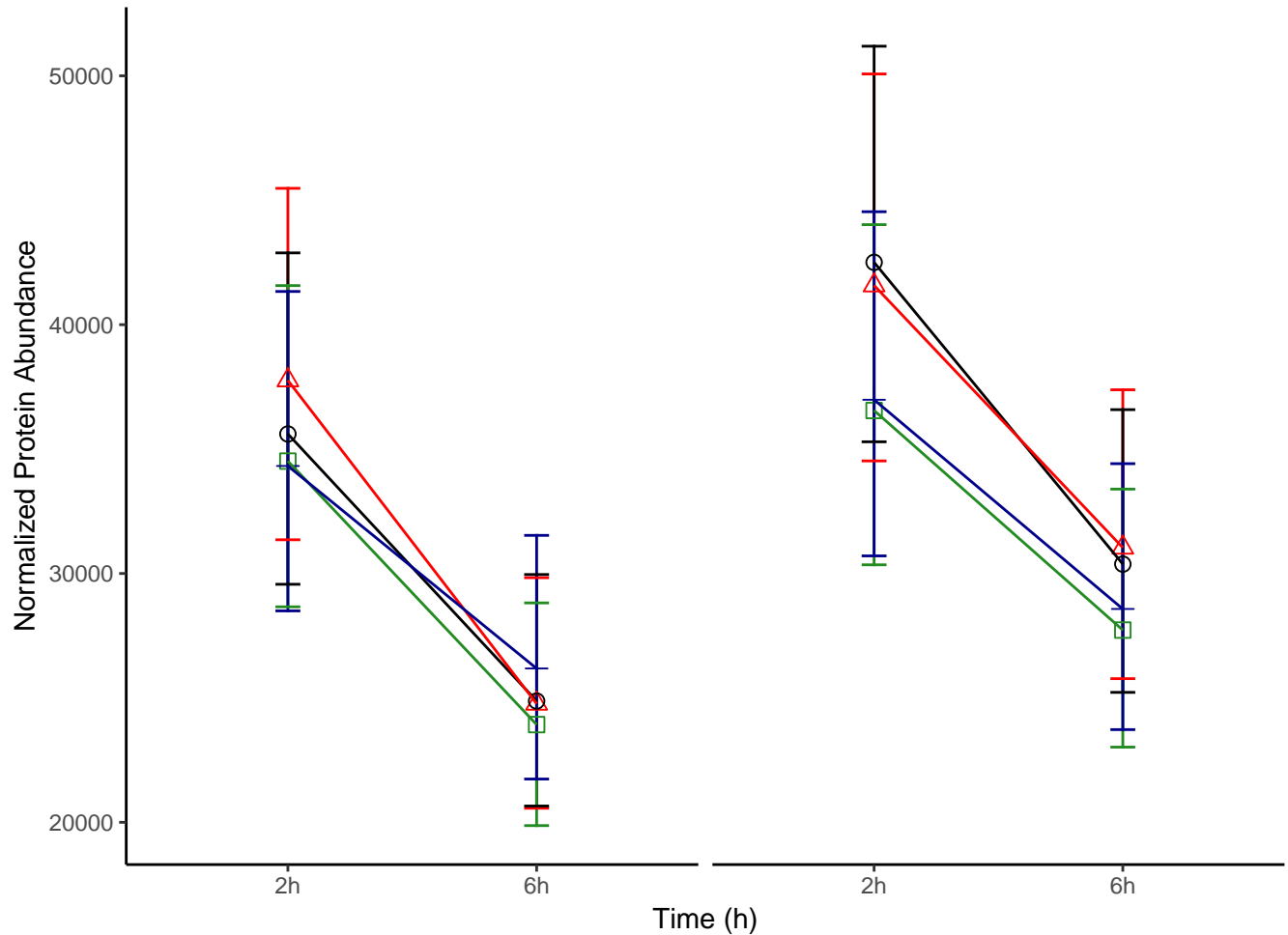
- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



# RS4\_STAAM

TSB

TSB-dex S-361

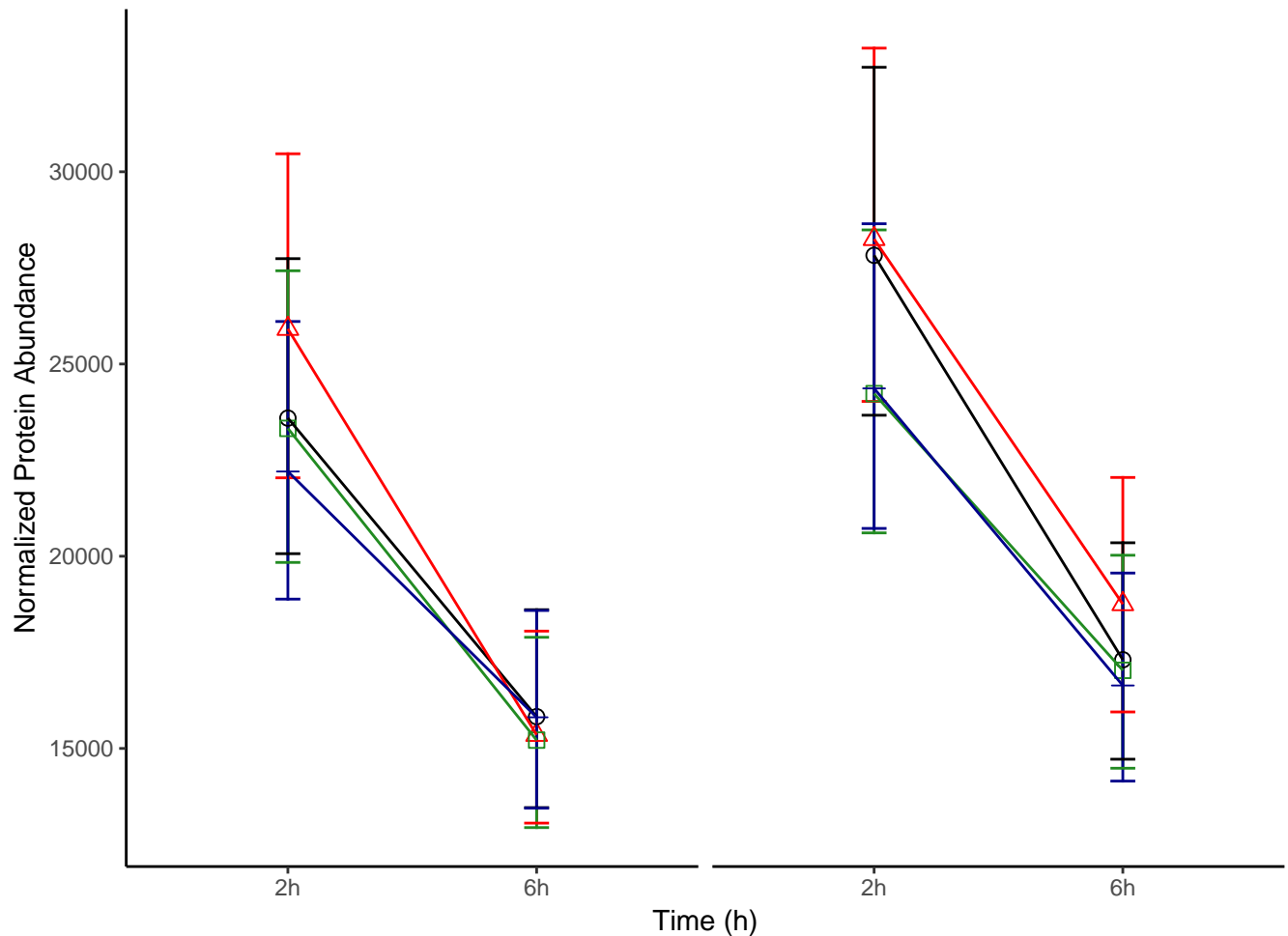


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS5\_STAAM

TSB

TSB-dex S-362

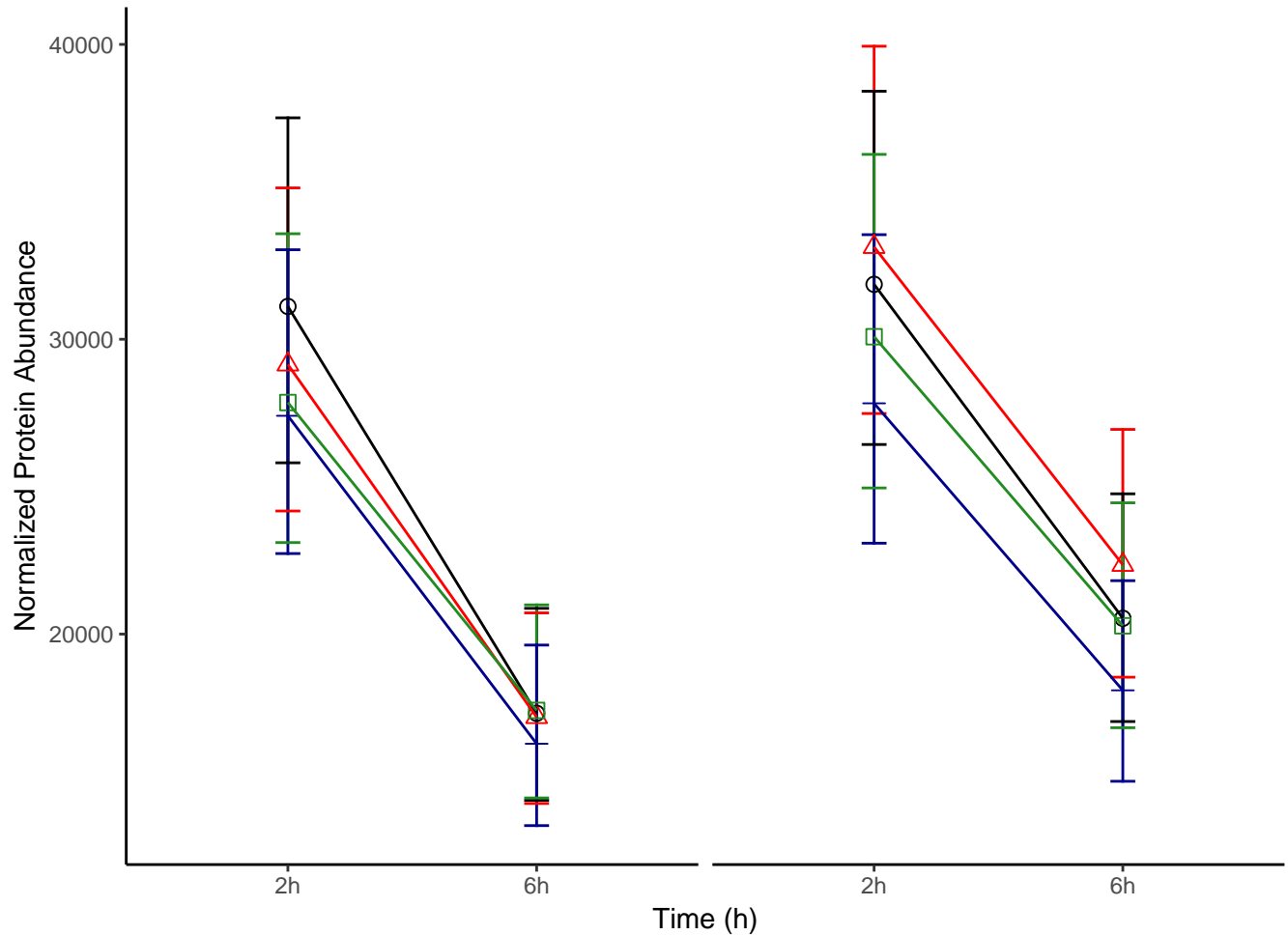


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS6\_STAAM

TSB

TSB-dex S-363

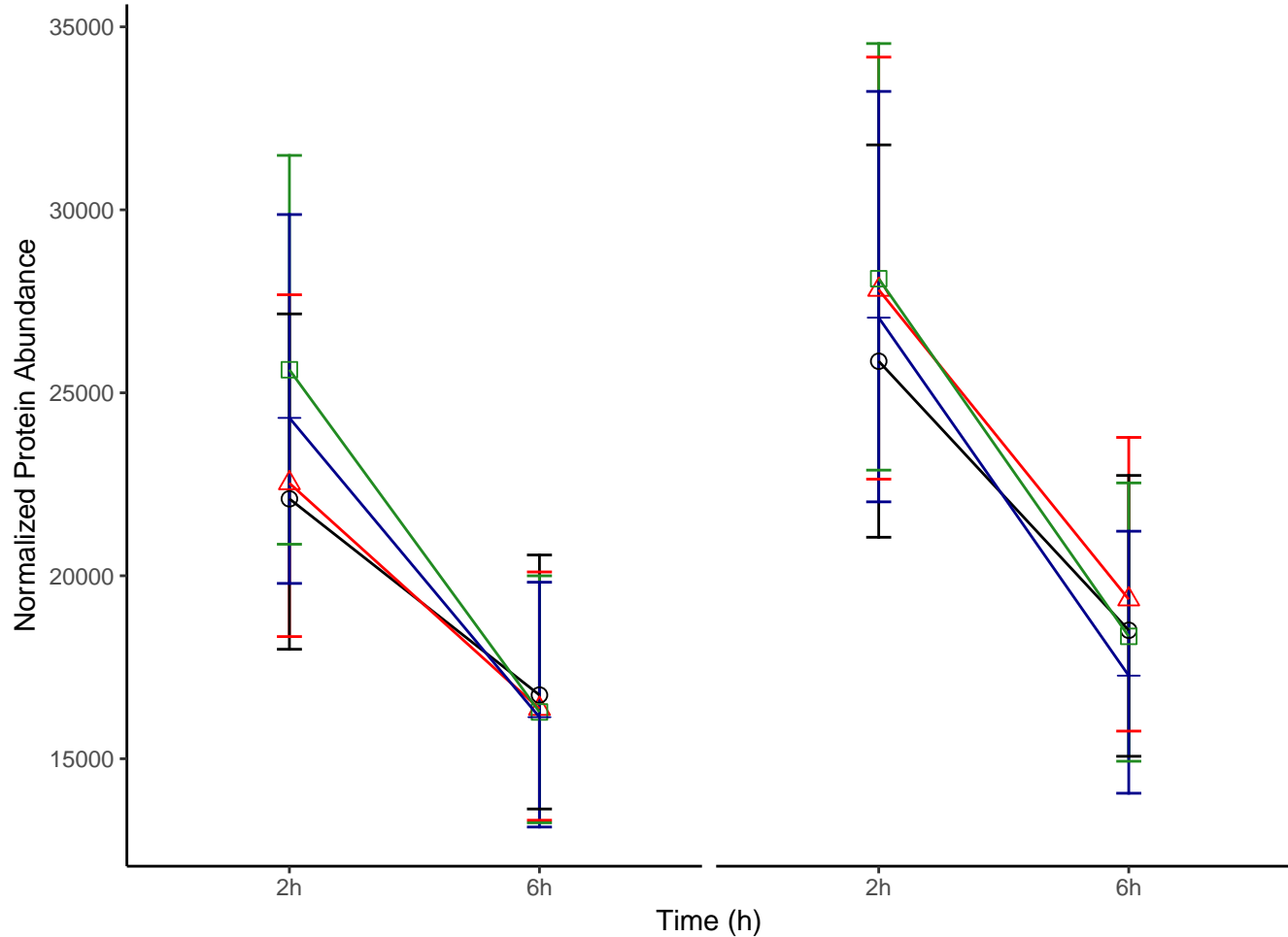


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS7\_STAAM

TSB

TSB-dex S-364

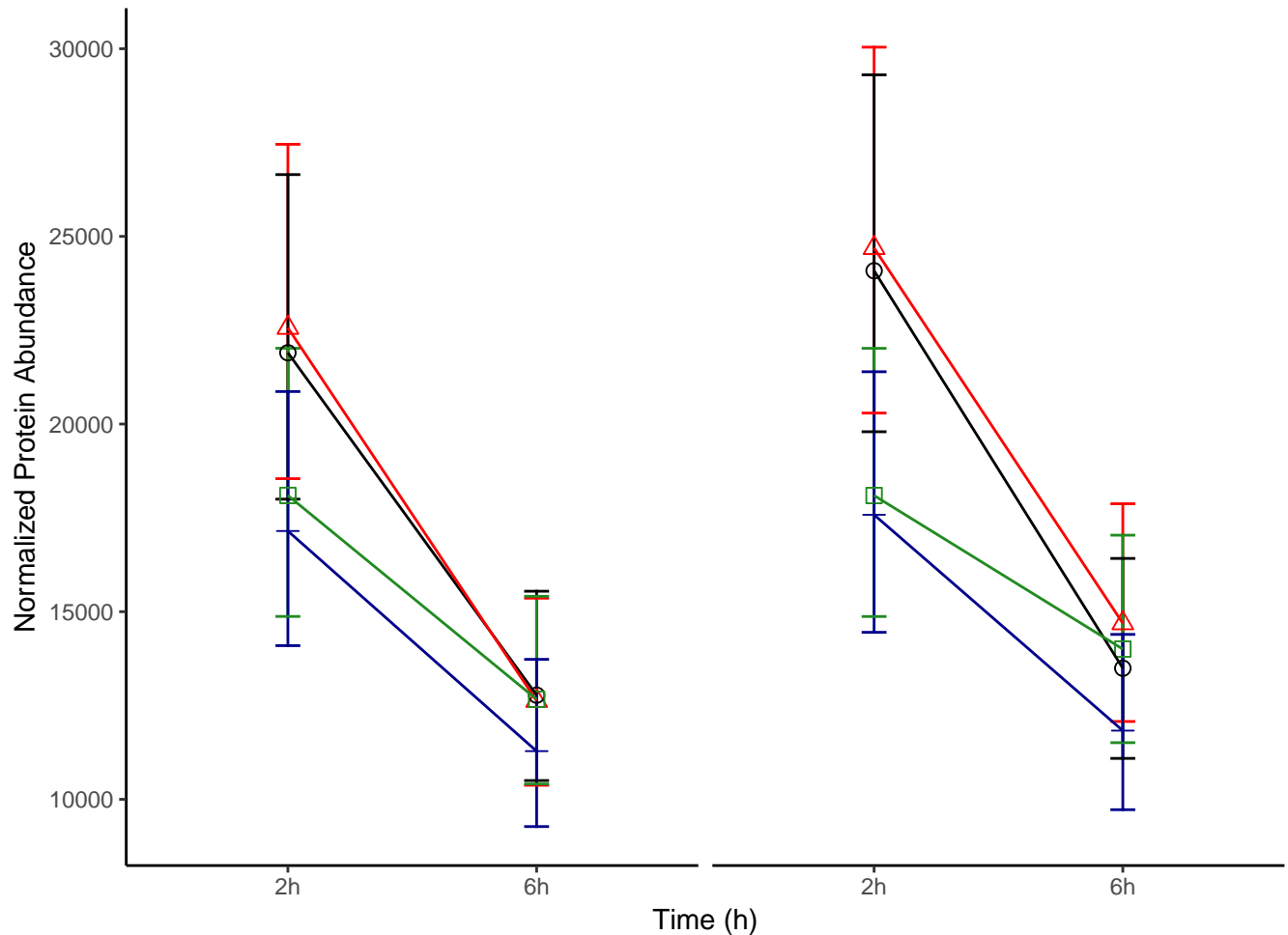


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS8\_STAAM

TSB

TSB-dex S-365

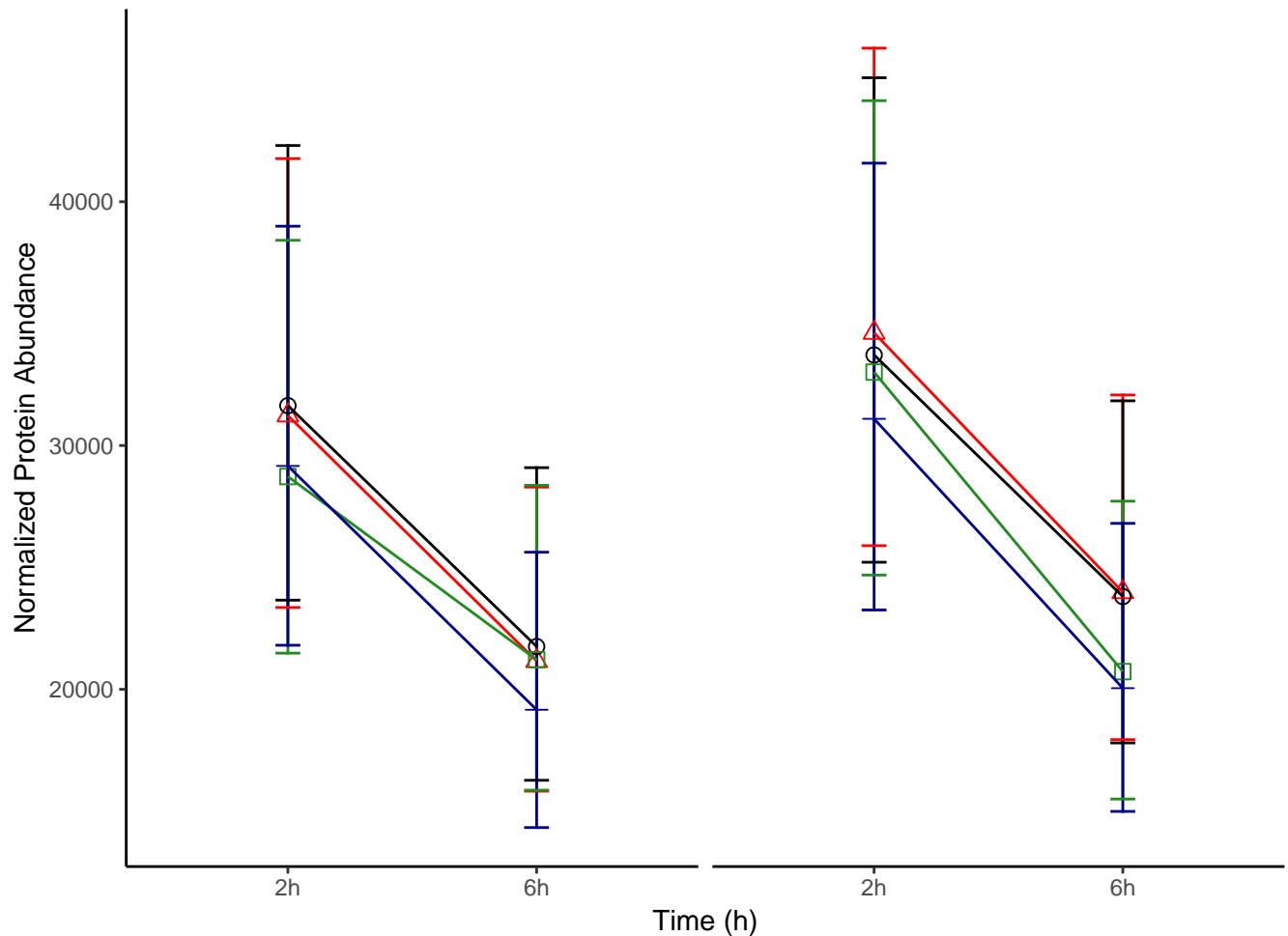


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# RS9\_STAAM

TSB

TSB-dex S-366

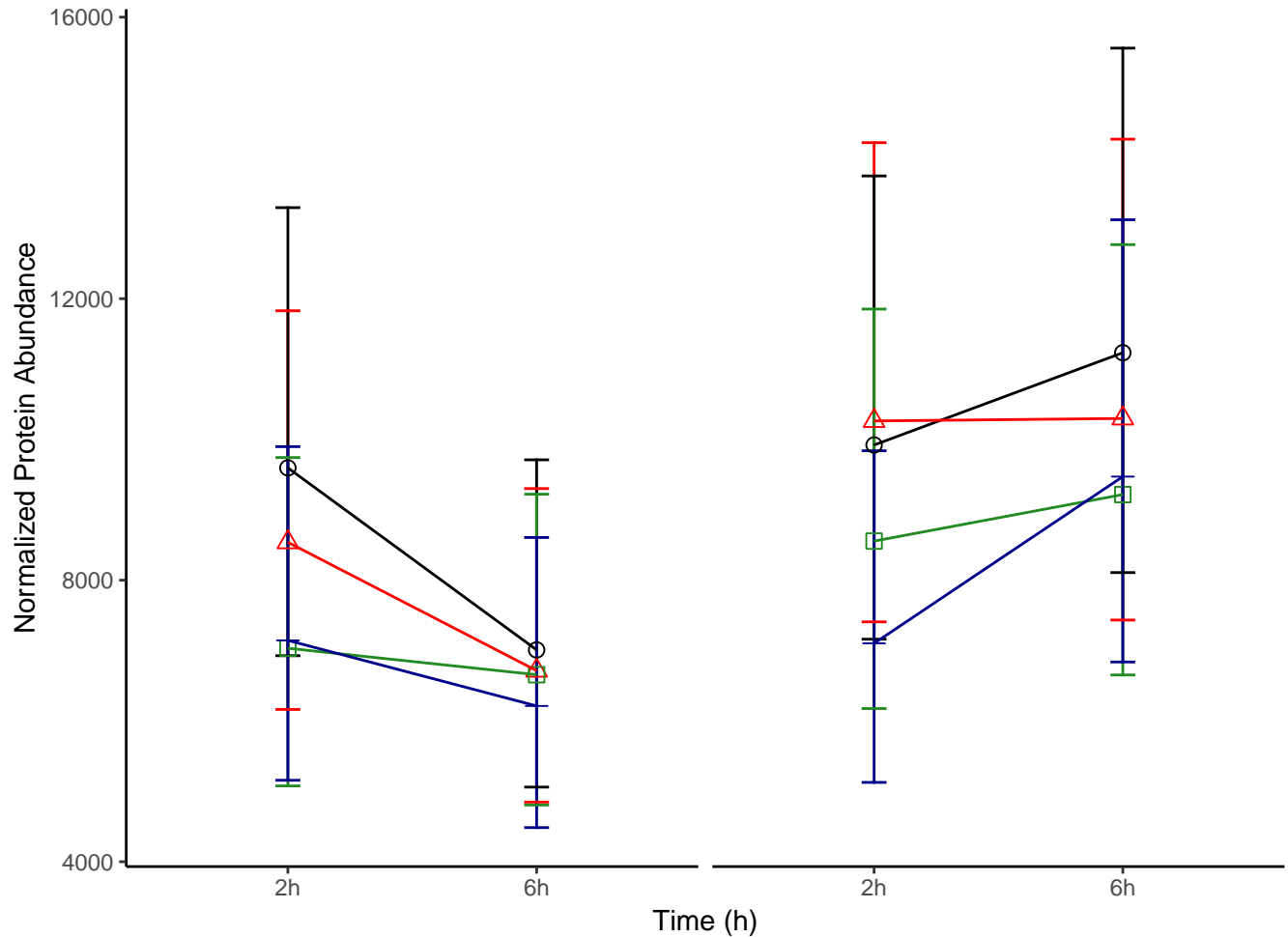


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RSBV\_STAAM

TSB

TSB-dex S-367

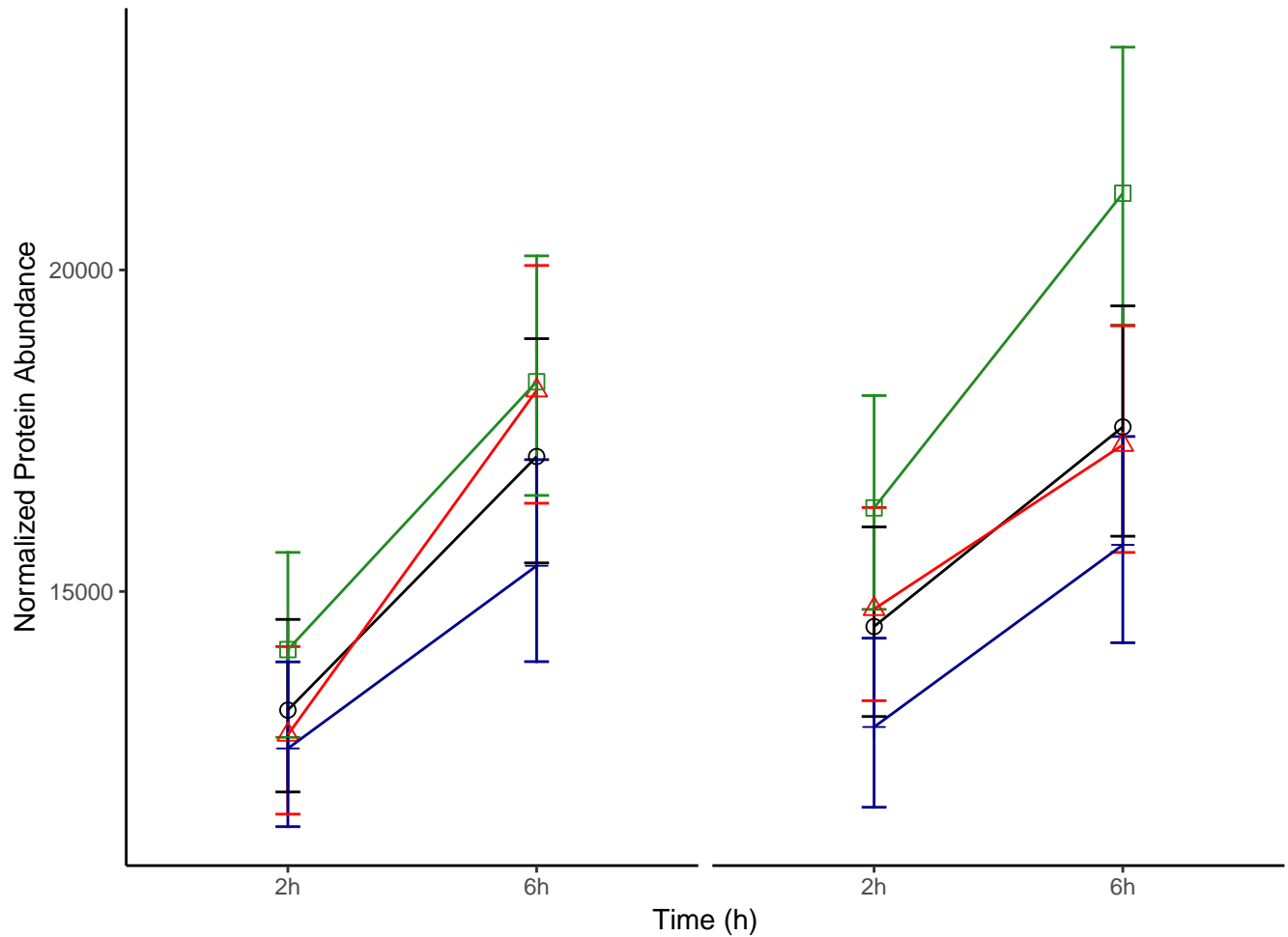


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RSBW\_STAAM

TSB

TSB-dex S-368



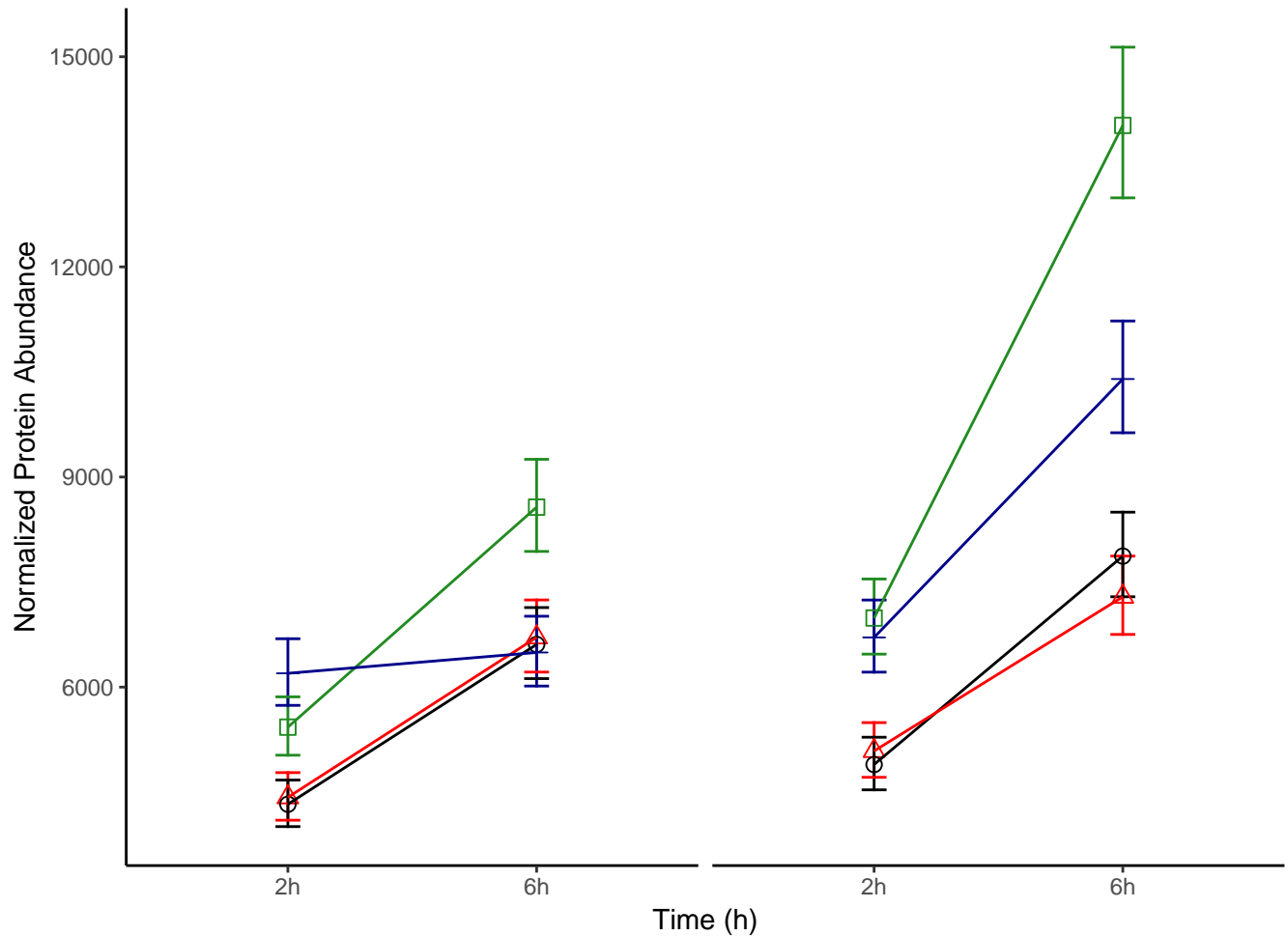
- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



# RSMA\_STAAM

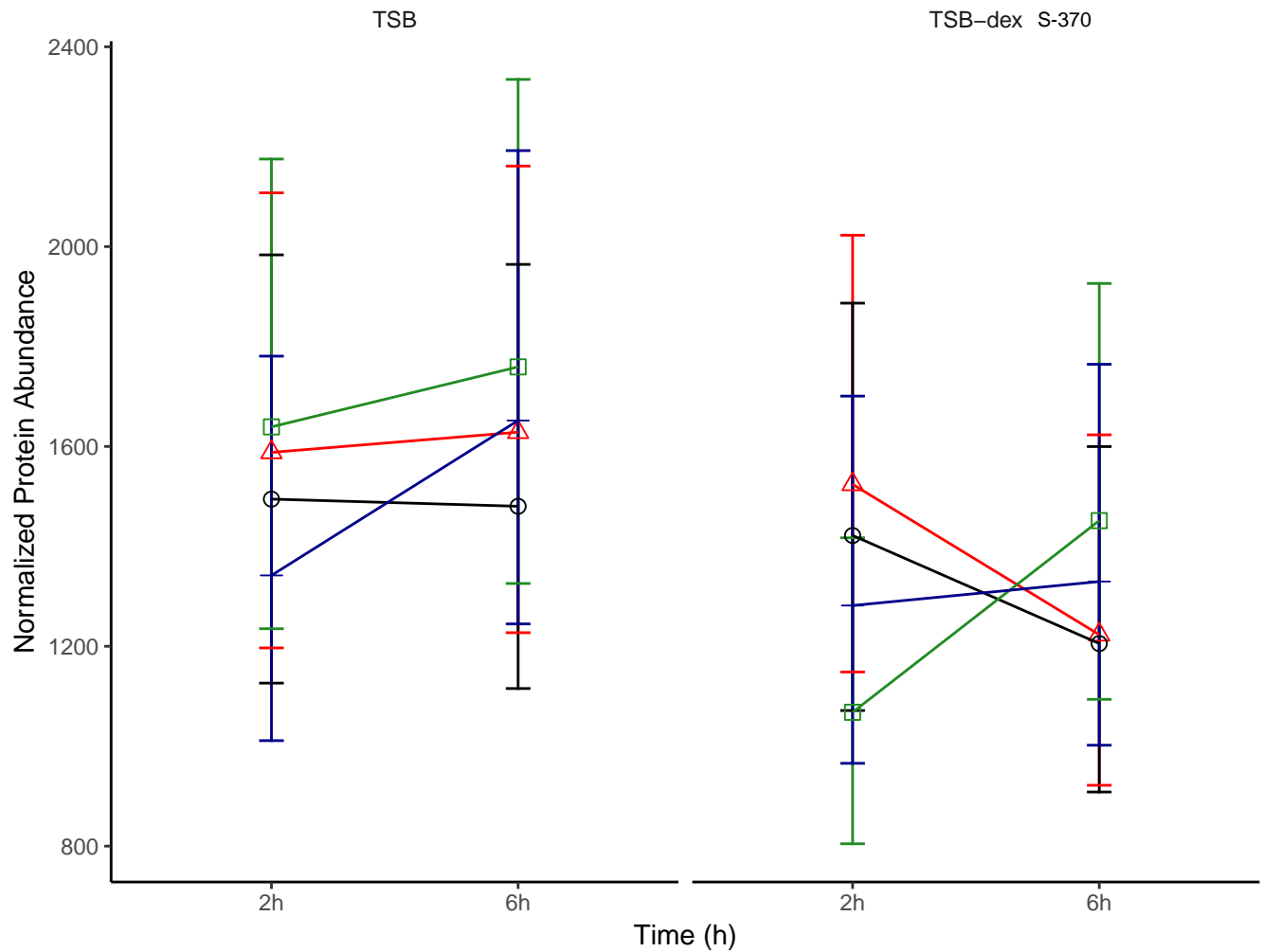
TSB

TSB-dex S-369



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RSMG\_STAAM

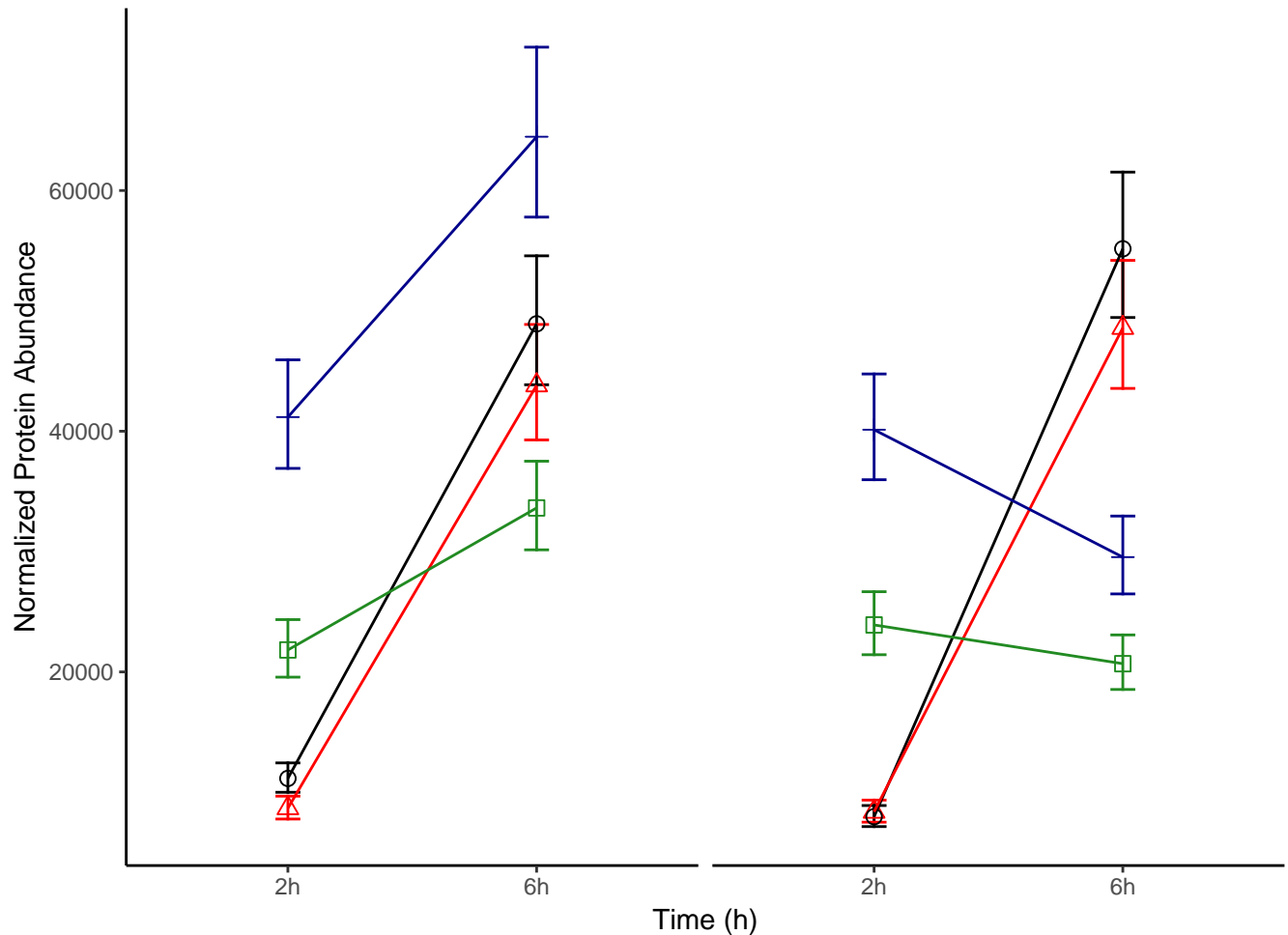


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RUVX\_STAAM

TSB

TSB-dex S-371

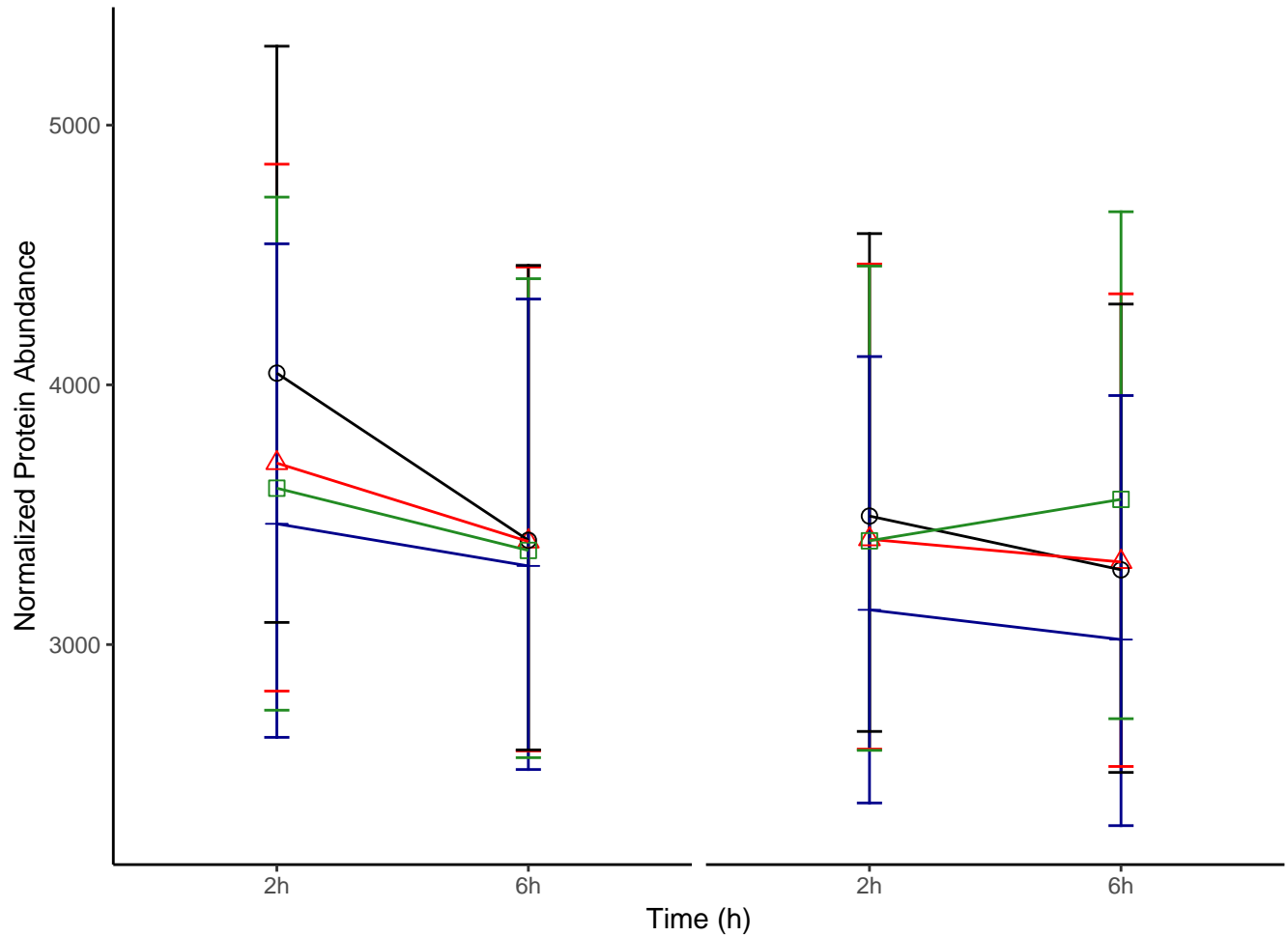


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# S3AD\_STAAM

TSB

TSB-dex S-372

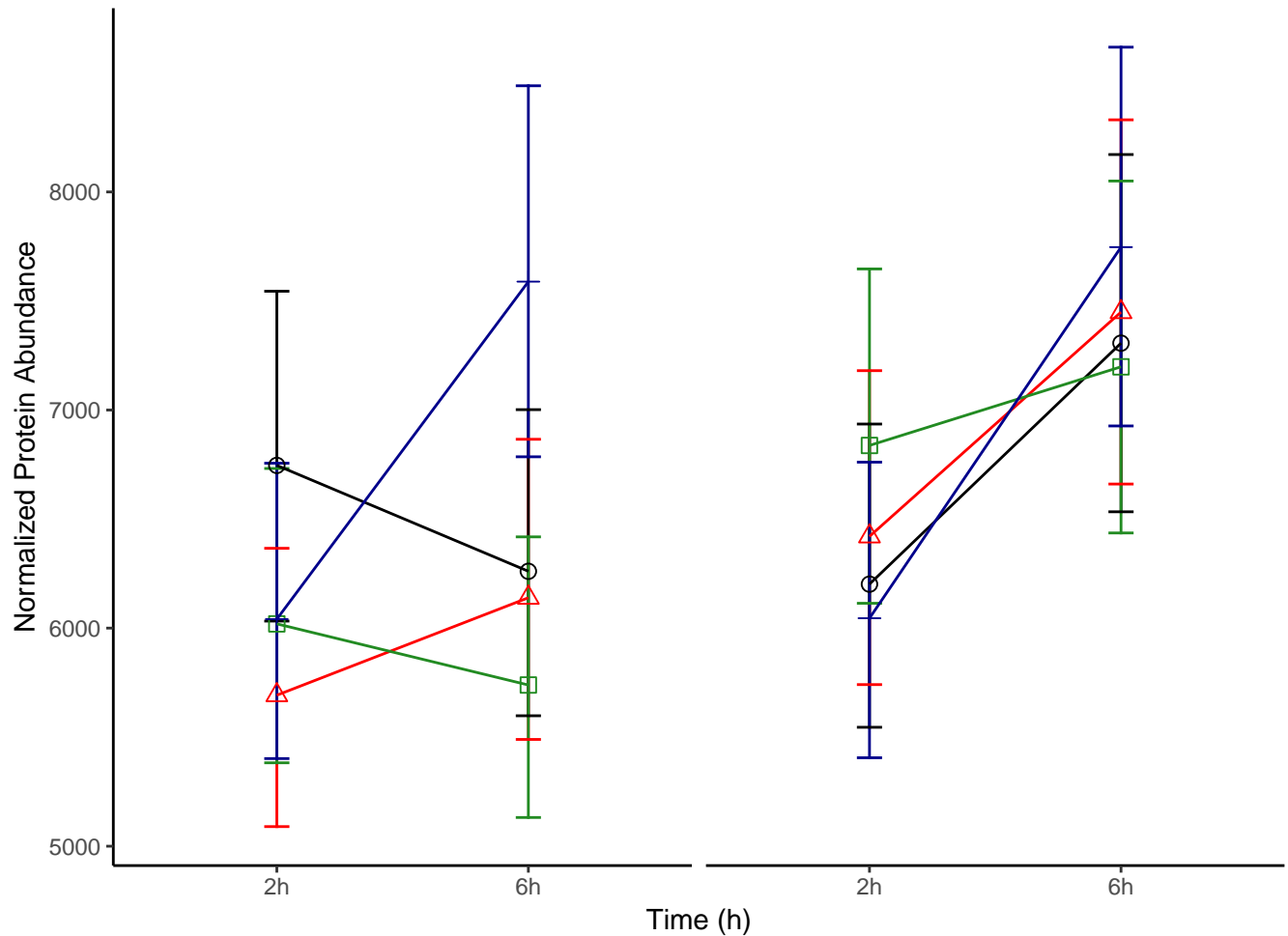


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SAER\_STAAM

TSB

TSB-dex S-373

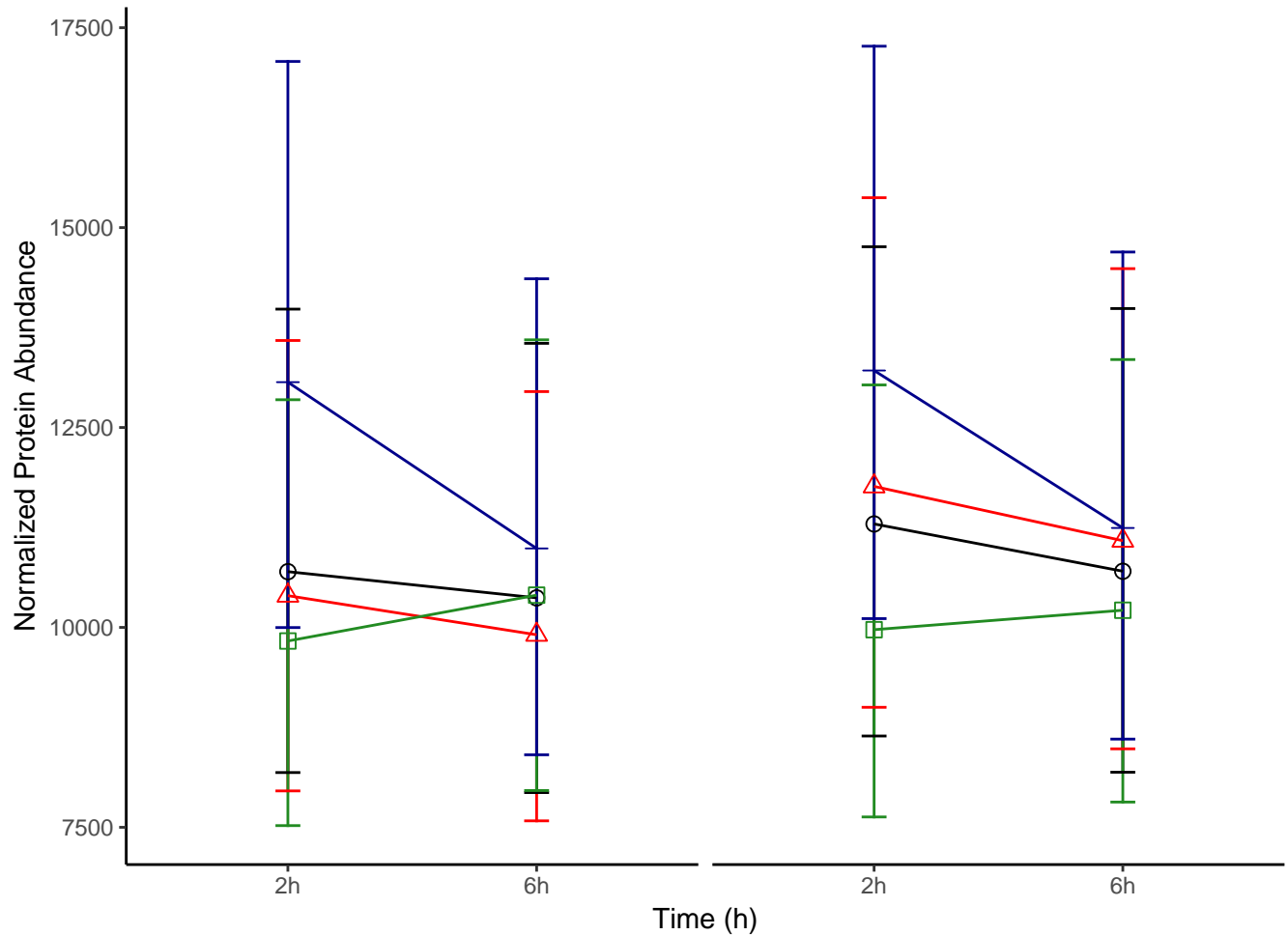


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SARA\_STAAM

TSB

TSB-dex S-374

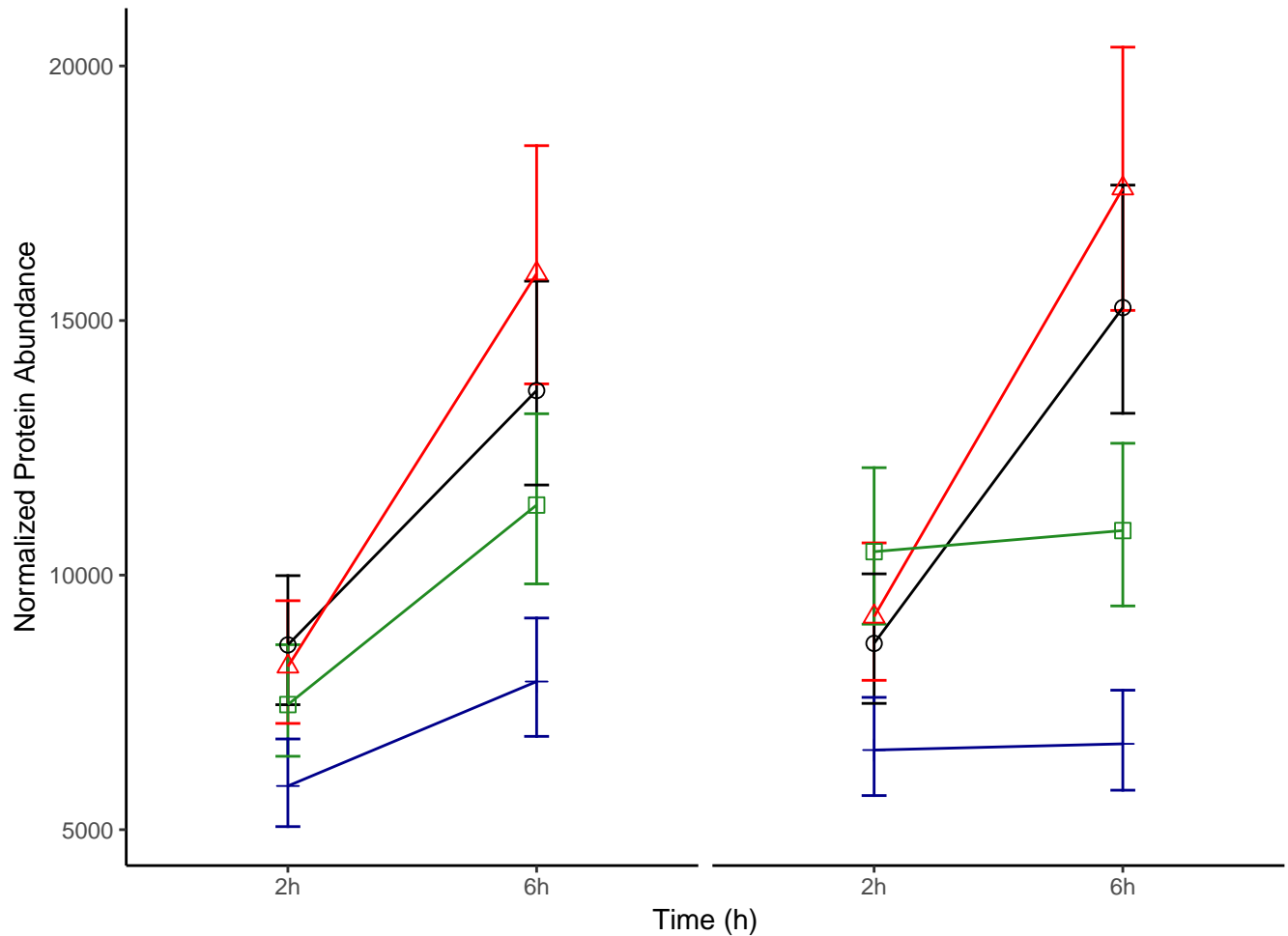


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SARR\_STAAM

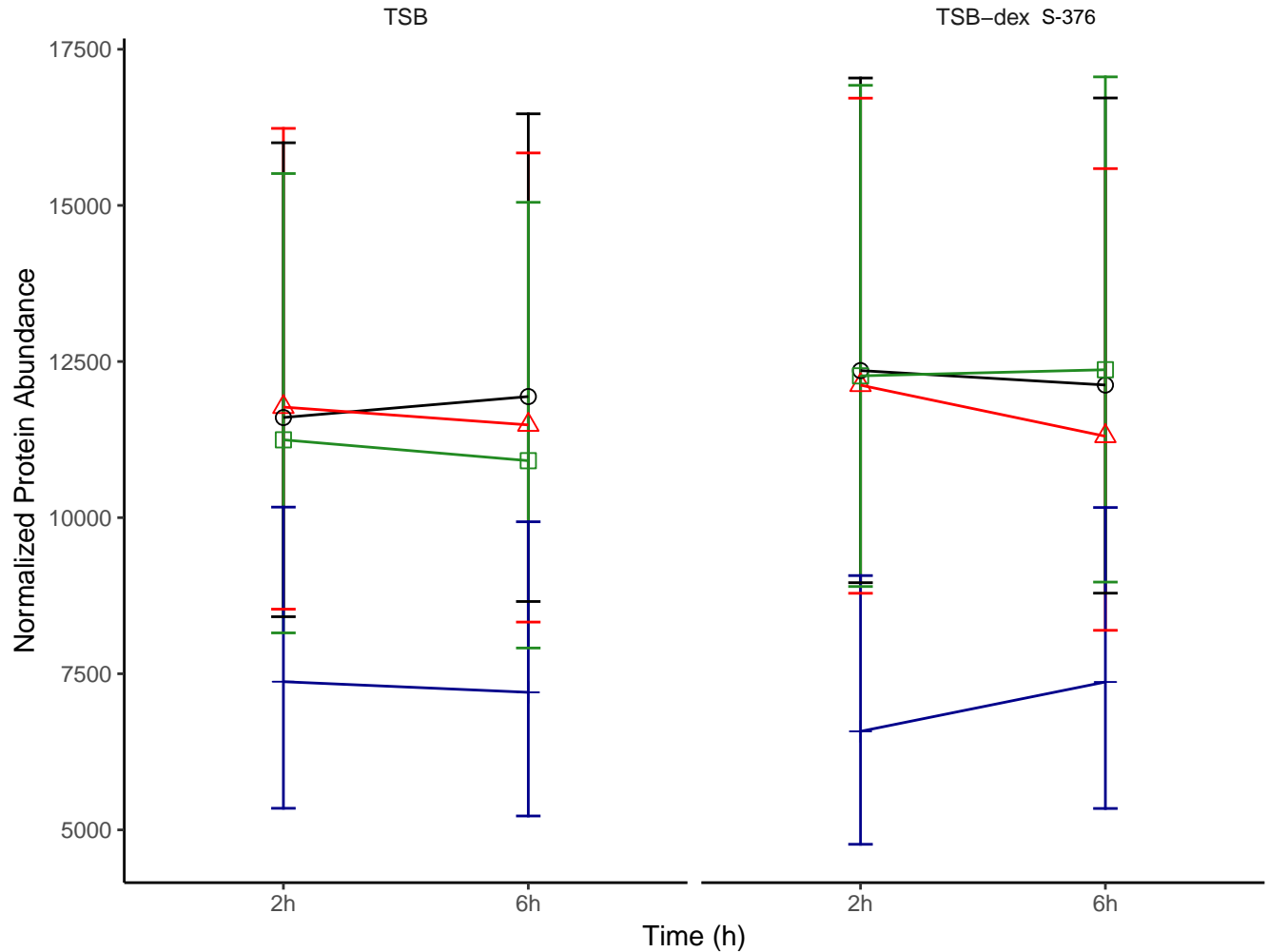
TSB

TSB-dex S-375



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# SARS\_STAAM



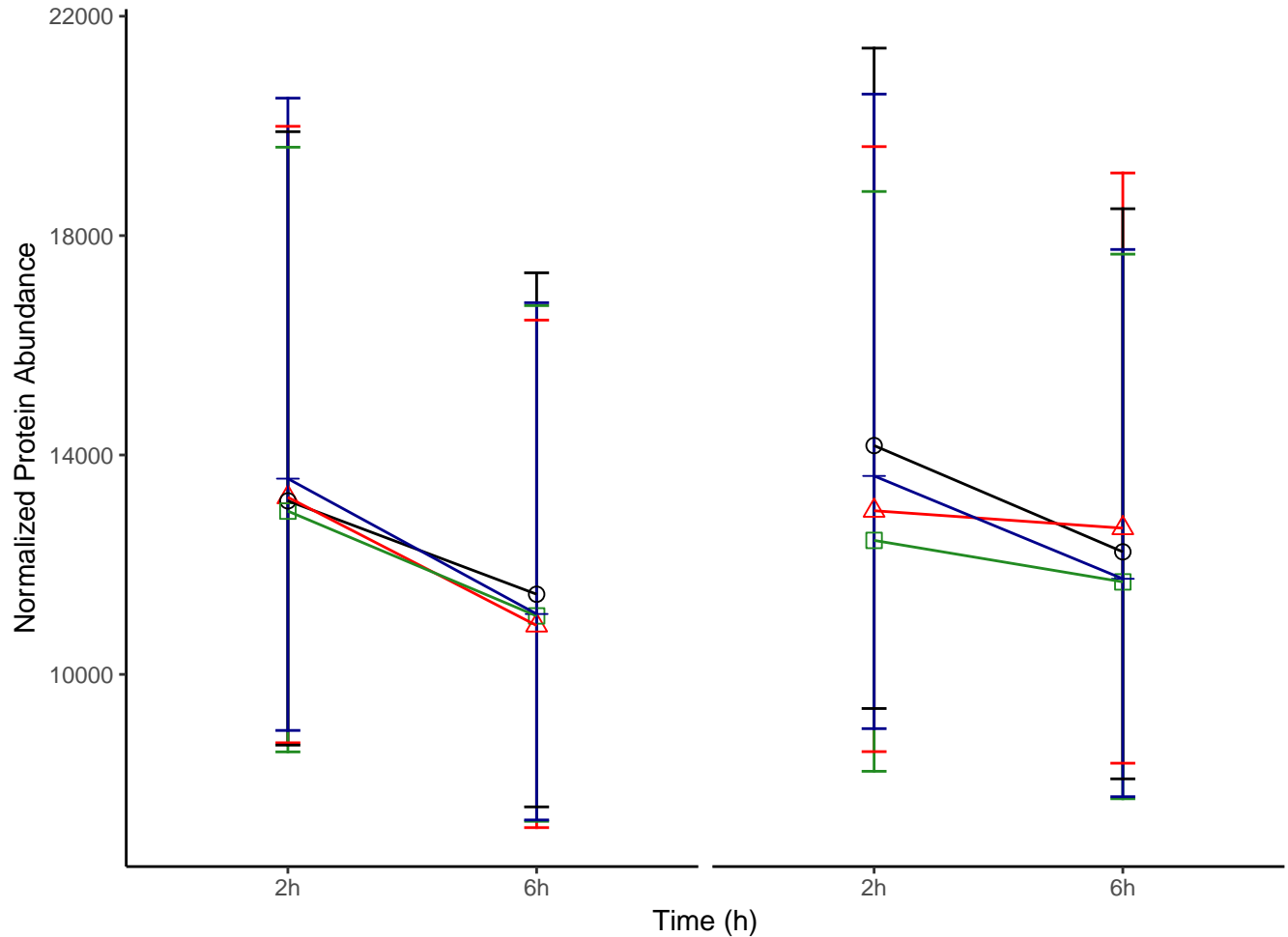
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# SBCC\_STAAM

TSB

TSB-dex S-377

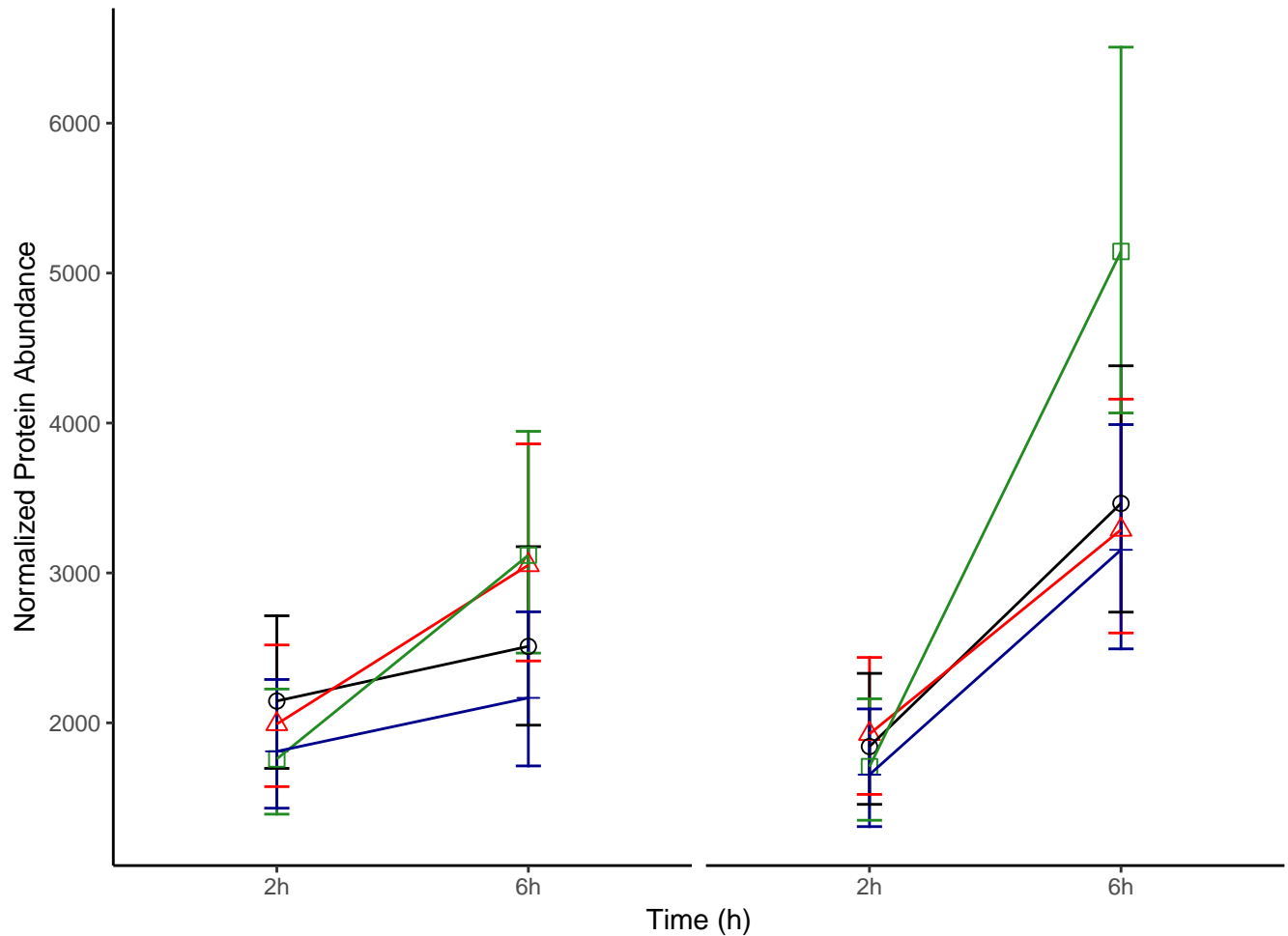


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SBI\_STAAM

TSB

TSB-dex S-378

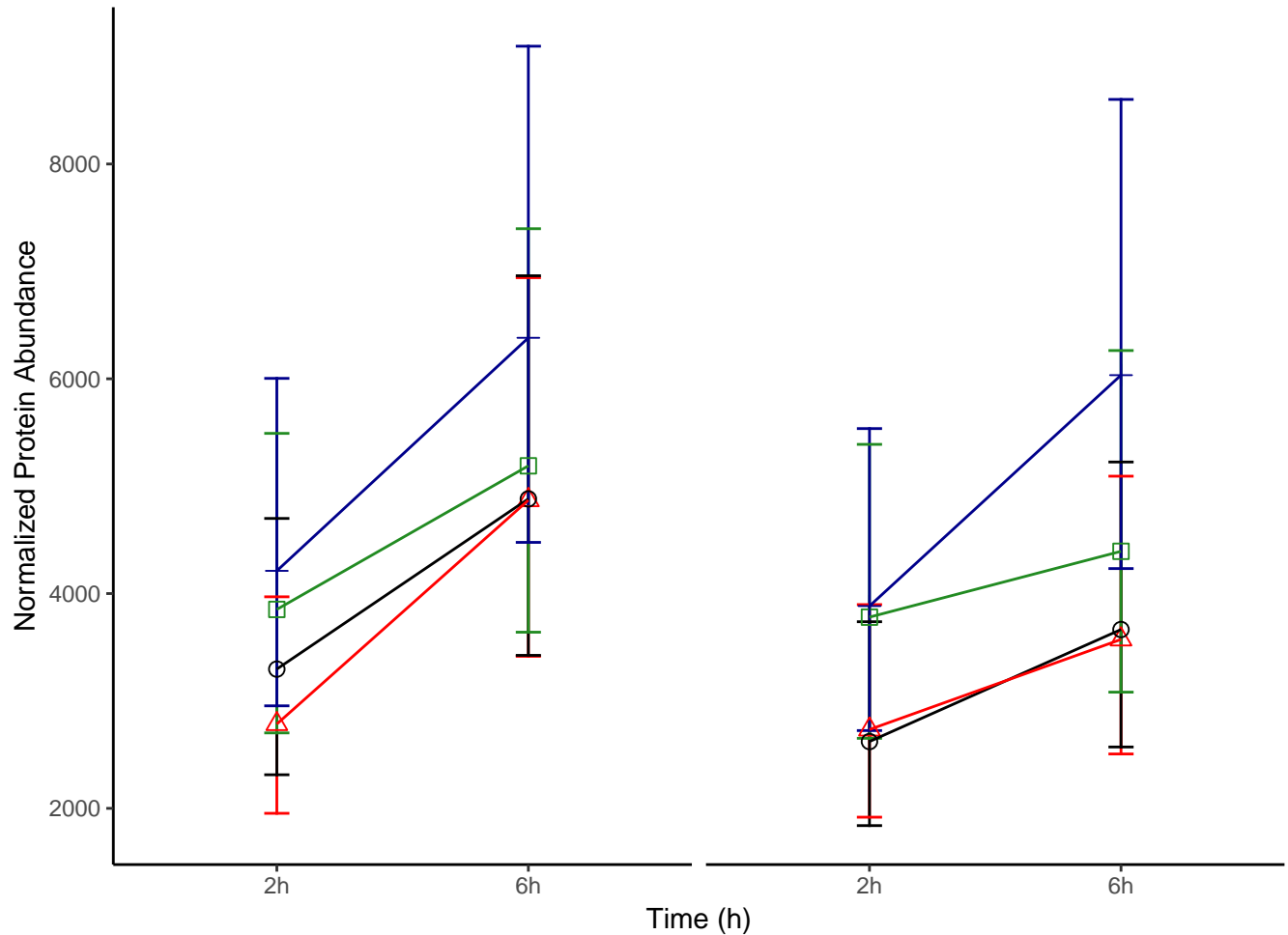


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SCPA\_STAAM

TSB

TSB-dex S-379

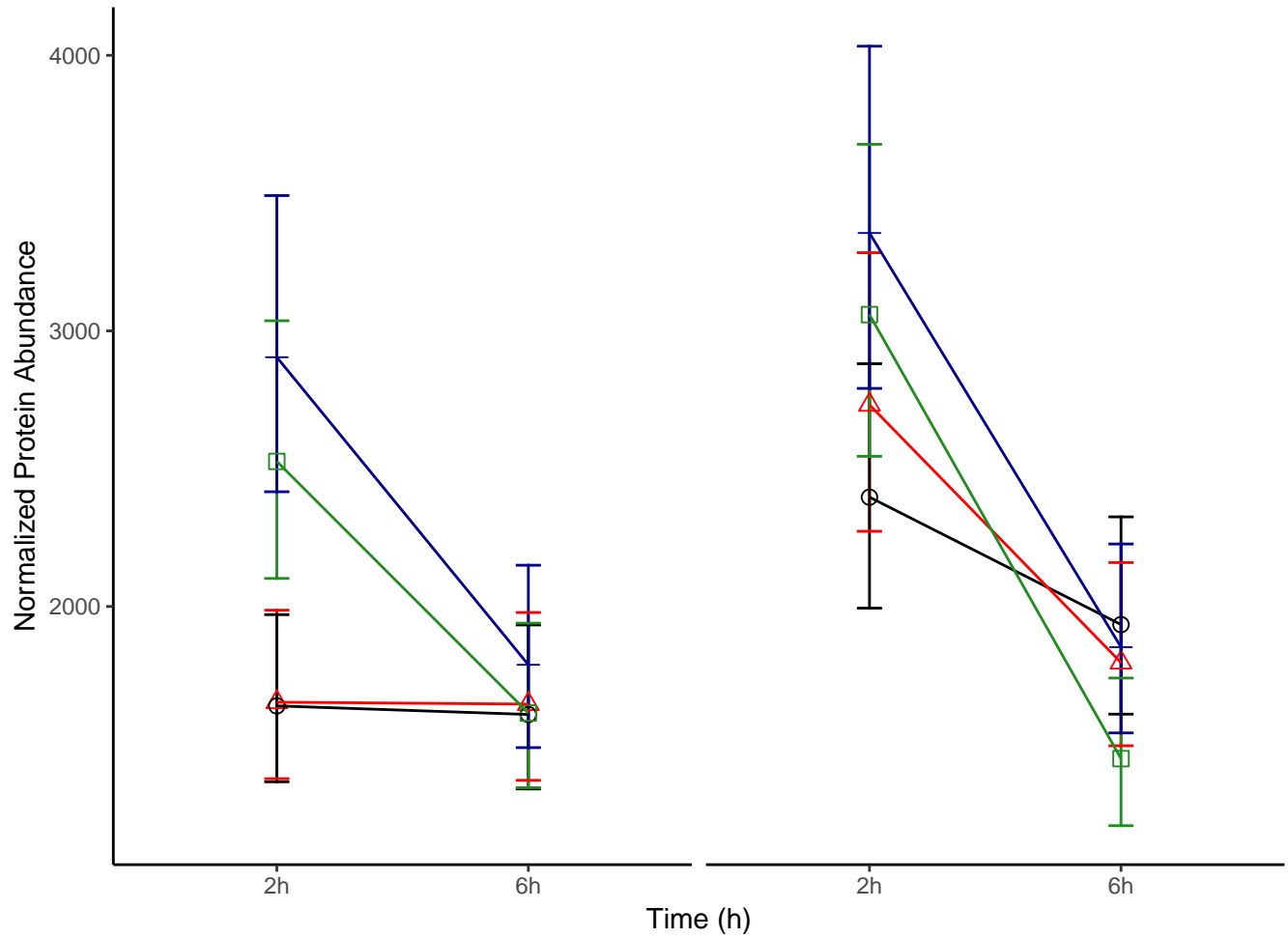


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SCPB\_STAAM

TSB

TSB-dex S-380

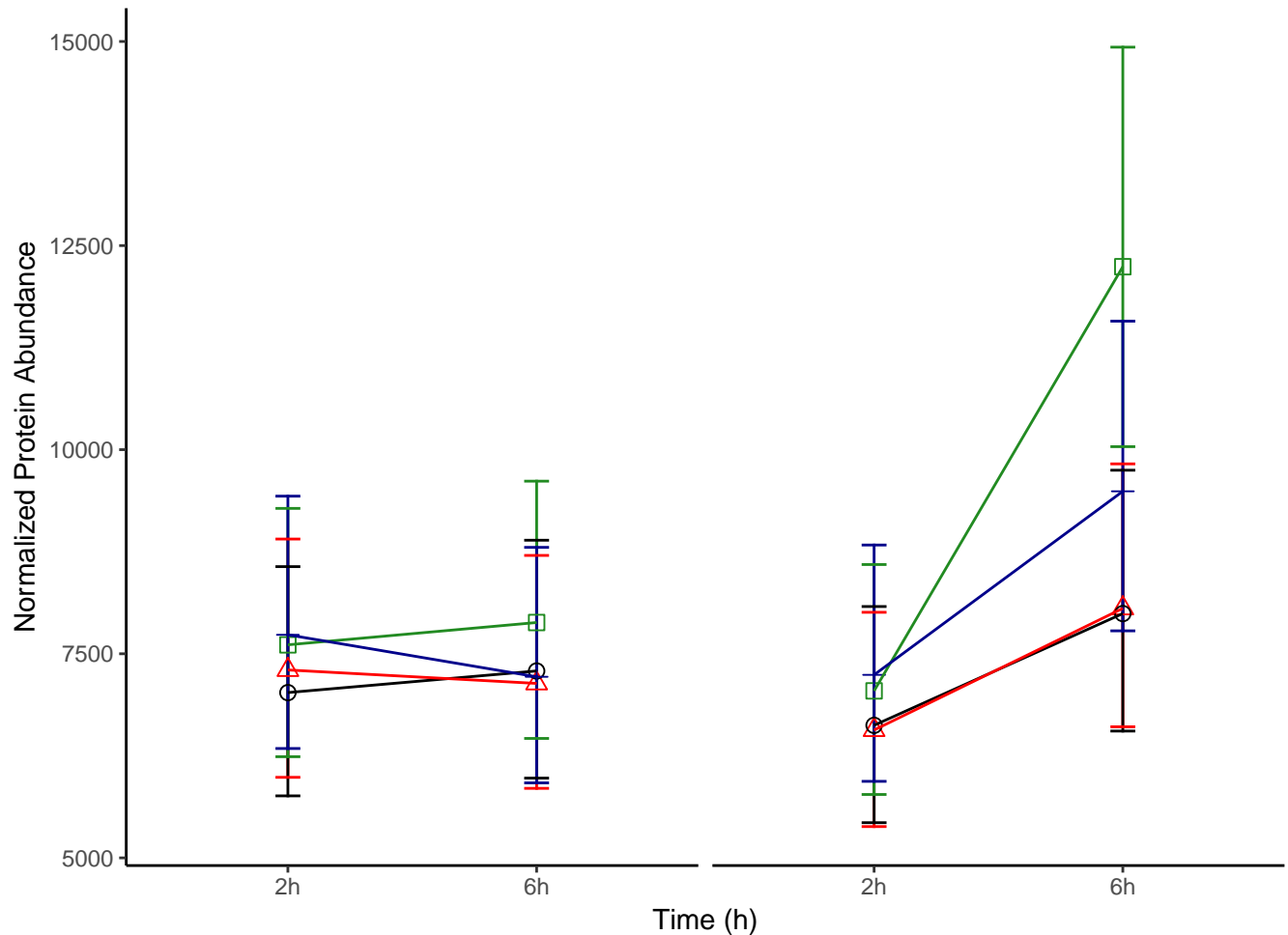


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SECA1\_STAAM

TSB

TSB-dex S-381

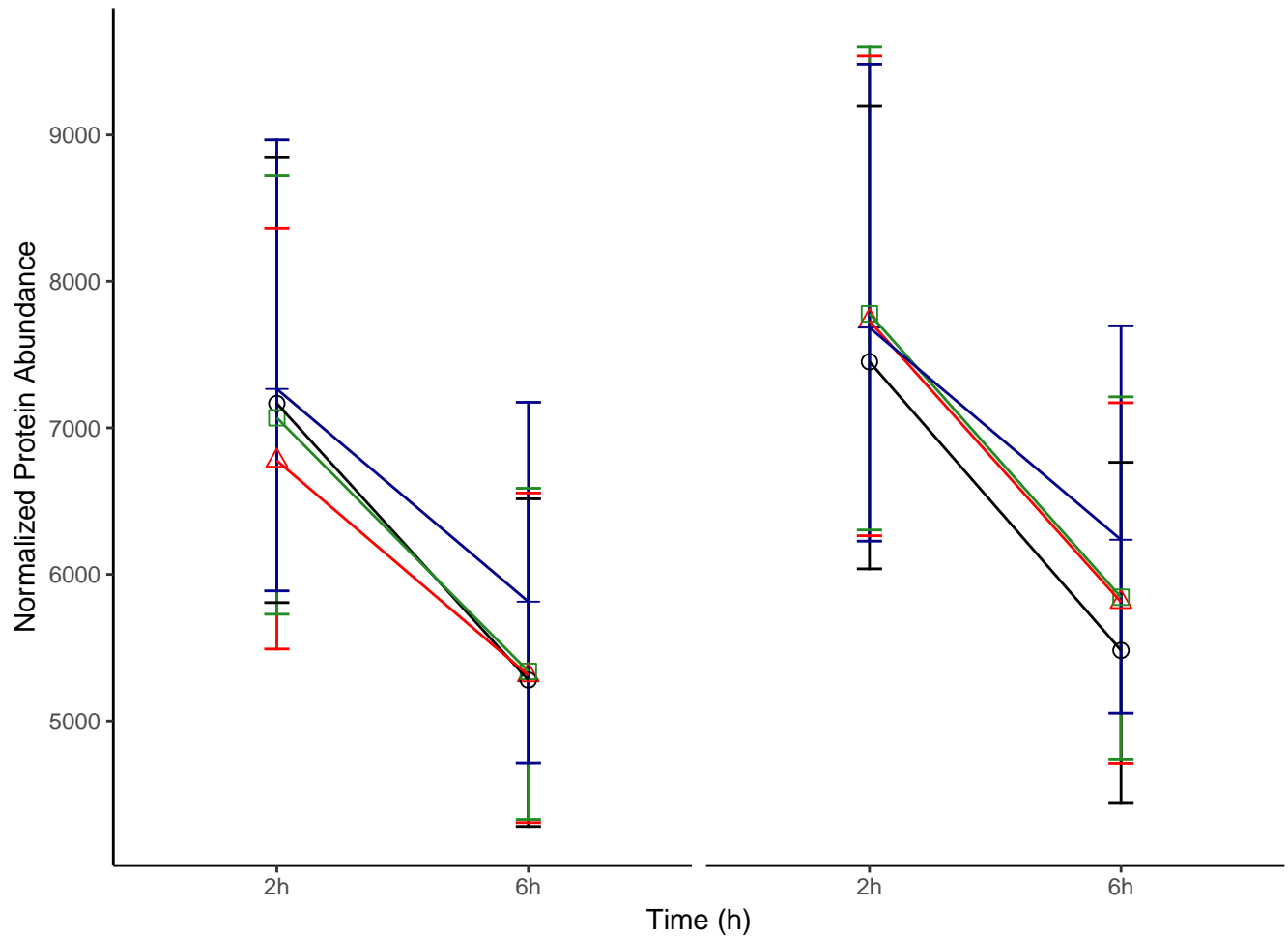


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SIGA\_STAAM

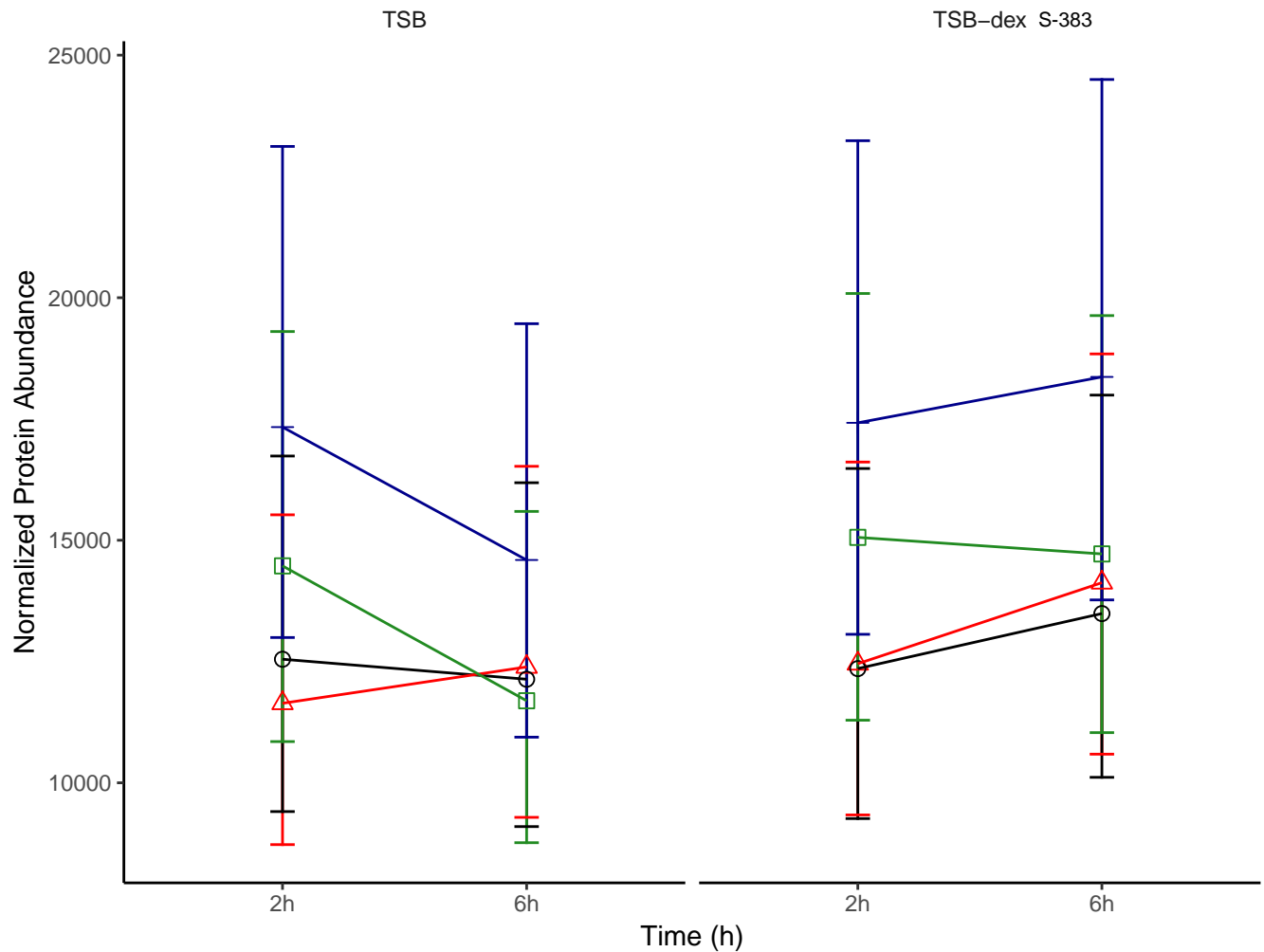
TSB

TSB-dex S-382



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SODM1\_STAAM

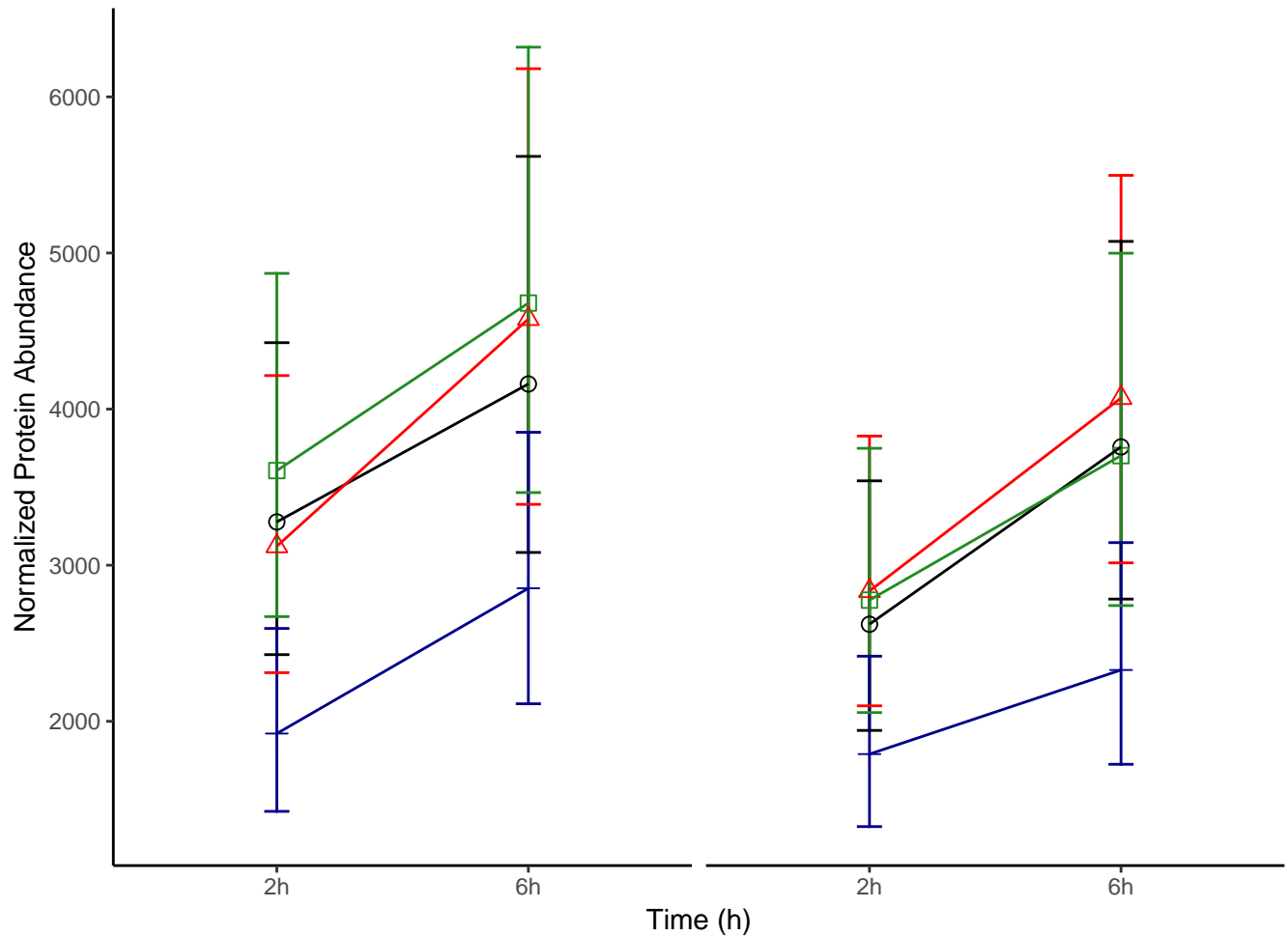


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SODM2\_STAAM

TSB

TSB-dex S-384



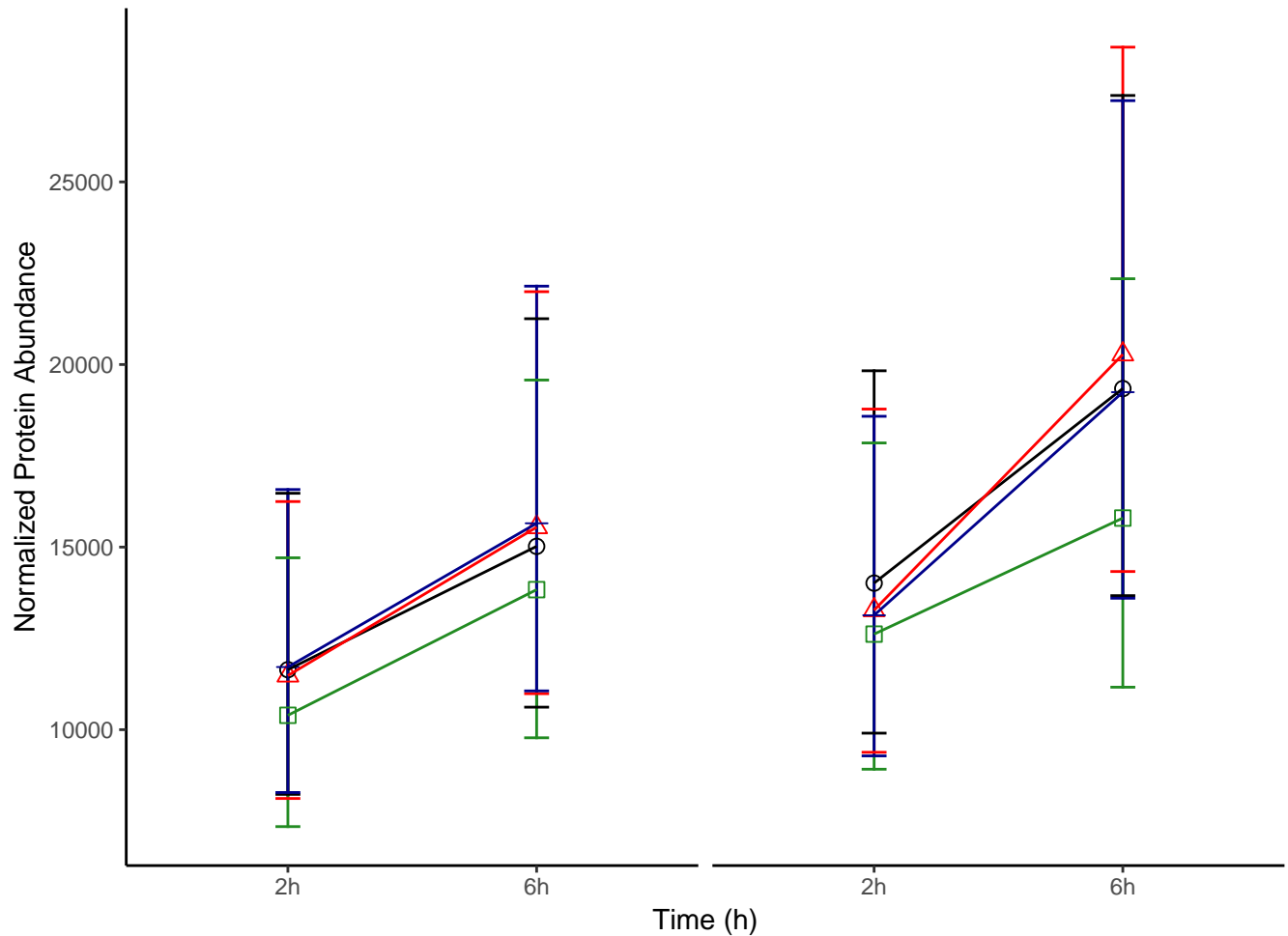
- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# SP5G\_STAAM

TSB

TSB-dex S-385

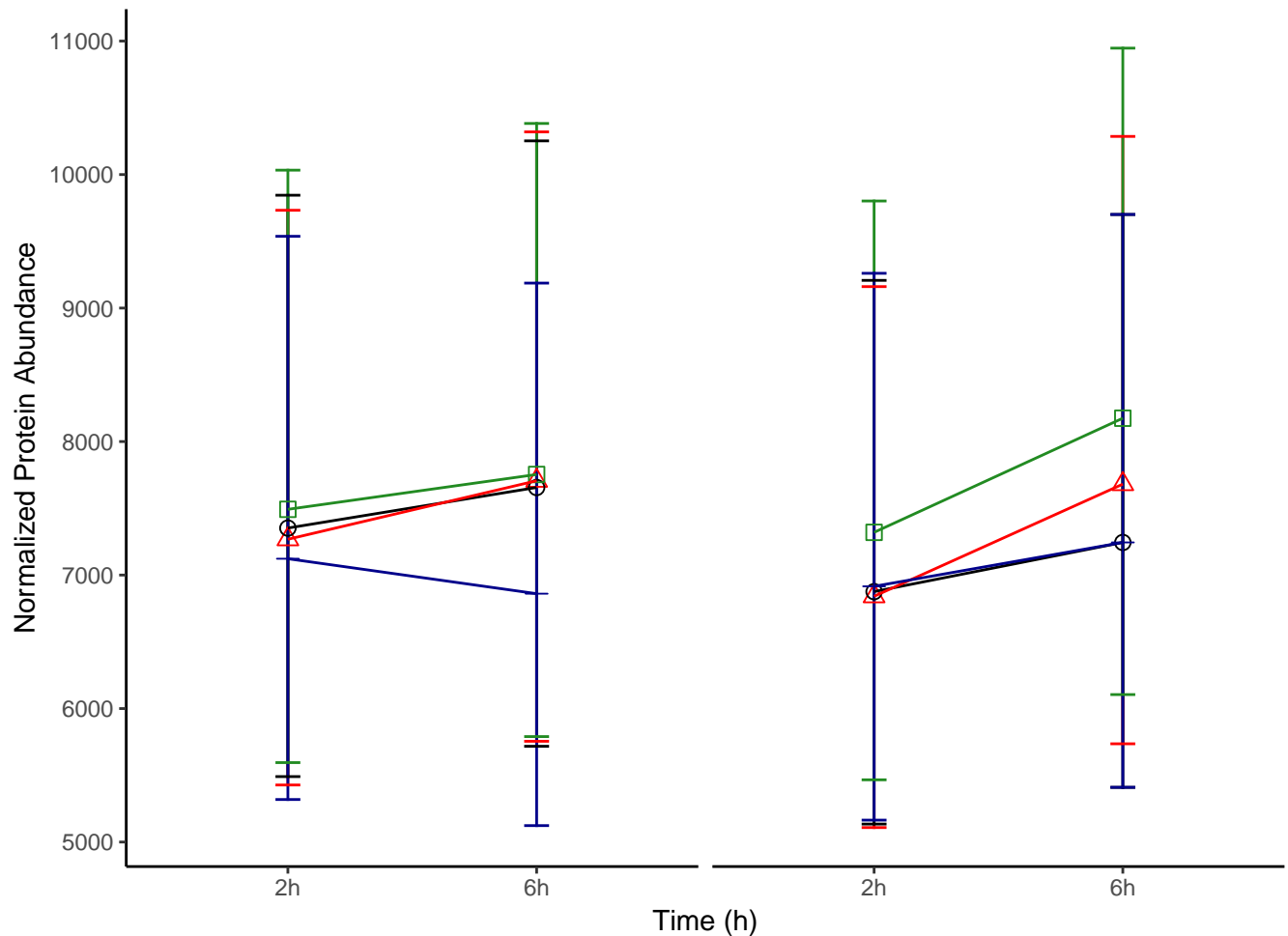


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SPA\_STAAM

TSB

TSB-dex S-386

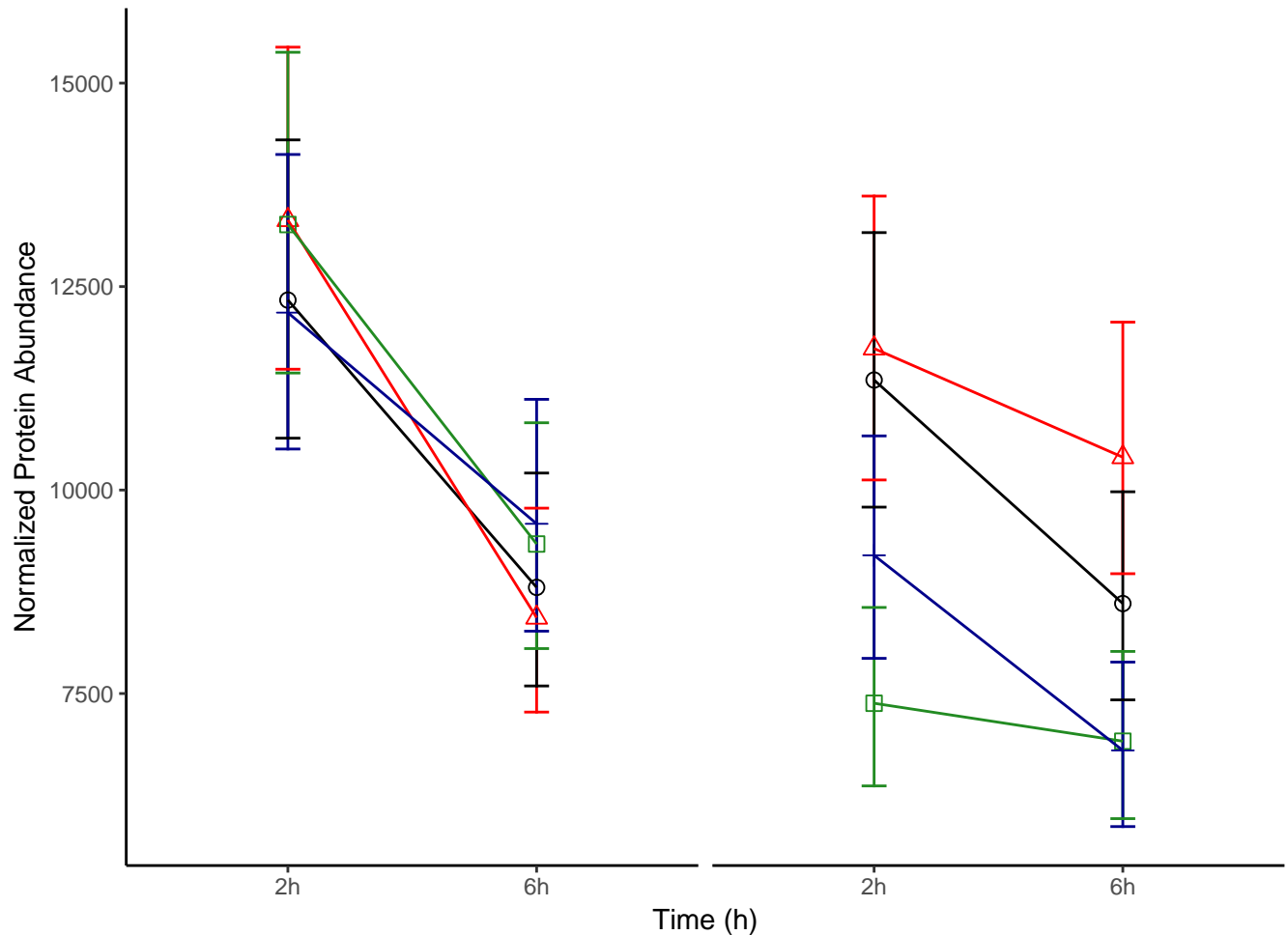


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SPLD\_STAAM

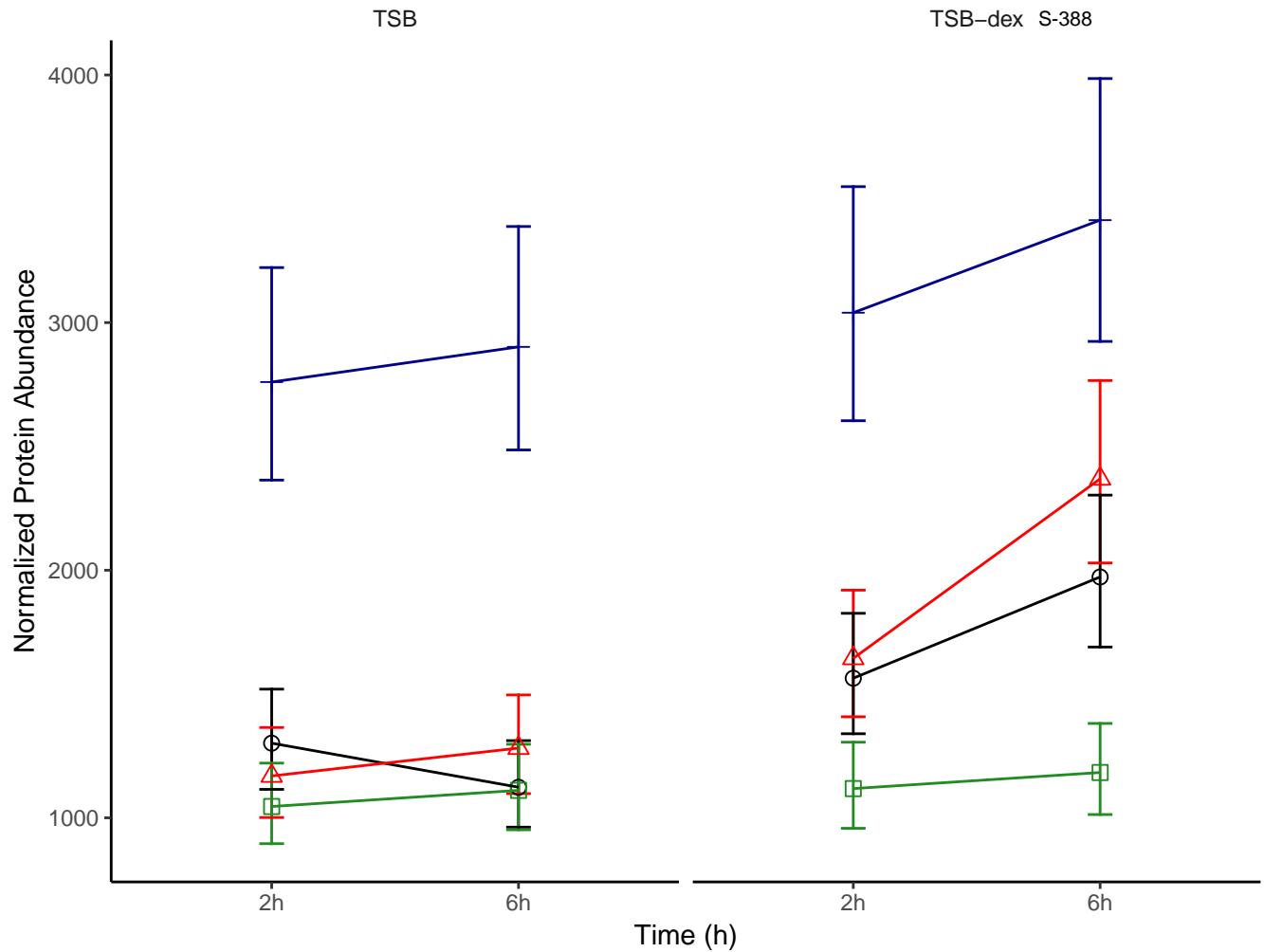
TSB

TSB-dex S-387



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# SPX\_STAAM

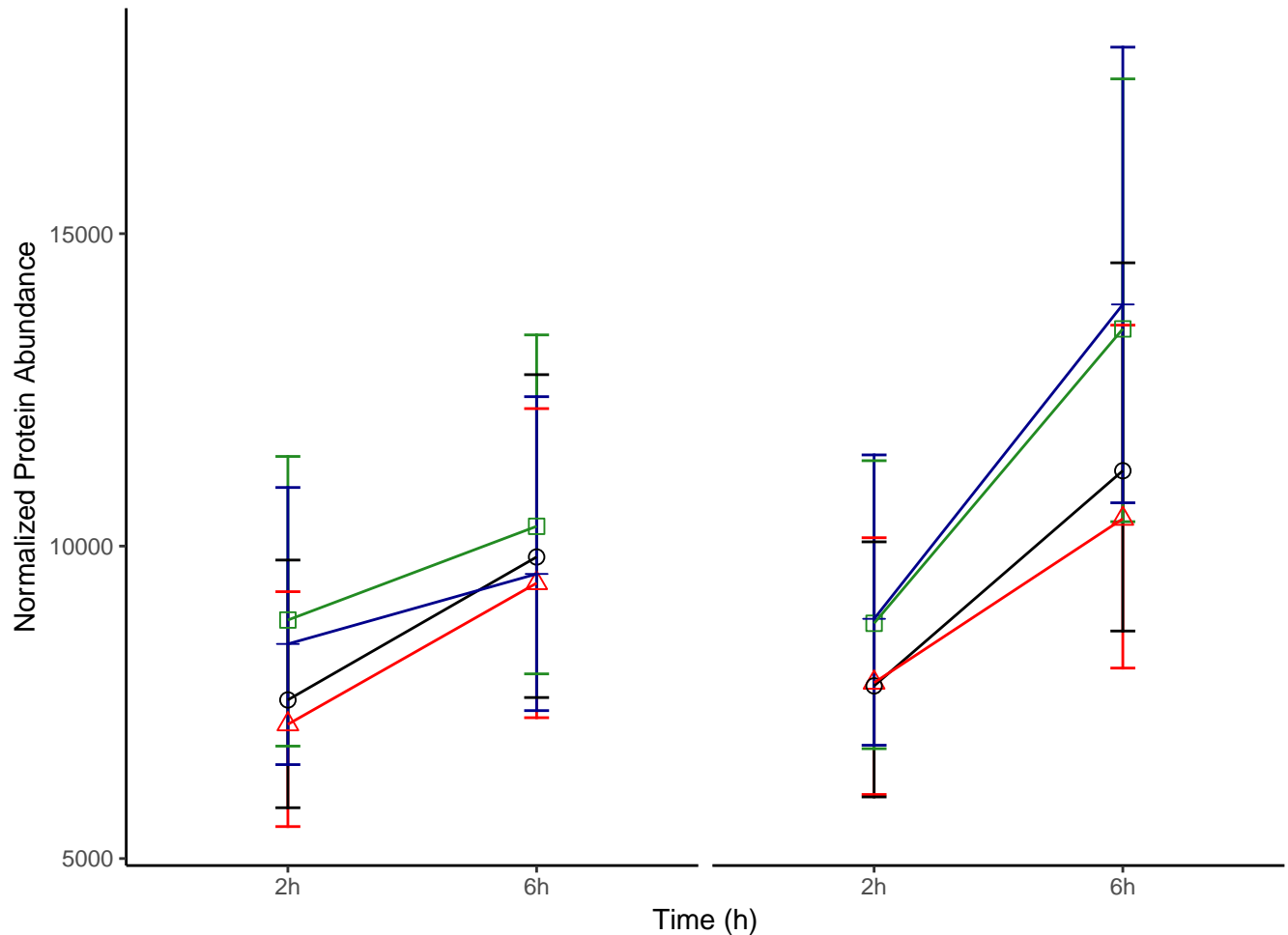


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SRRRA\_STAAM

TSB

TSB-dex S-389

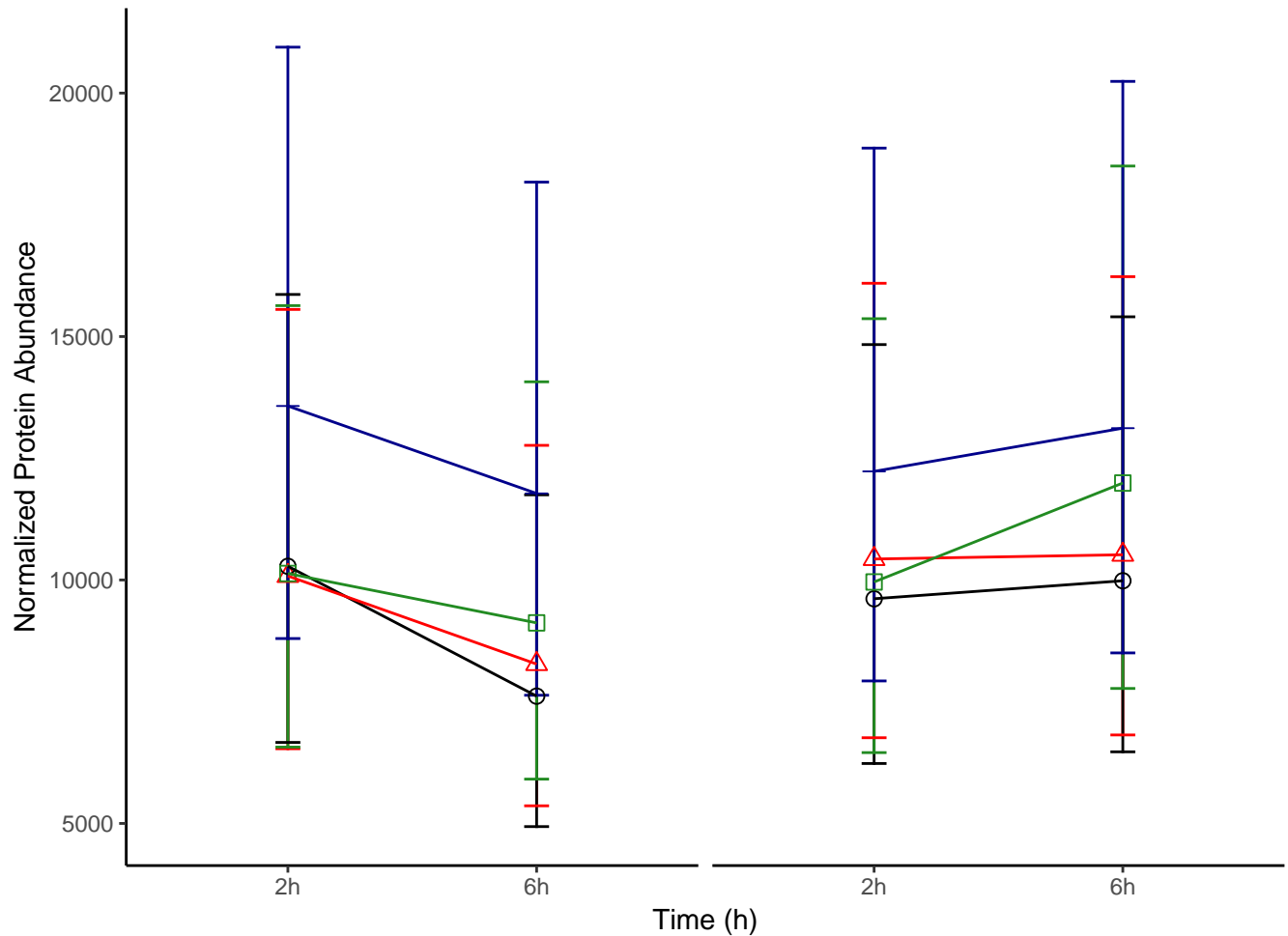


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SSAA2\_STAAM

TSB

TSB-dex S-390

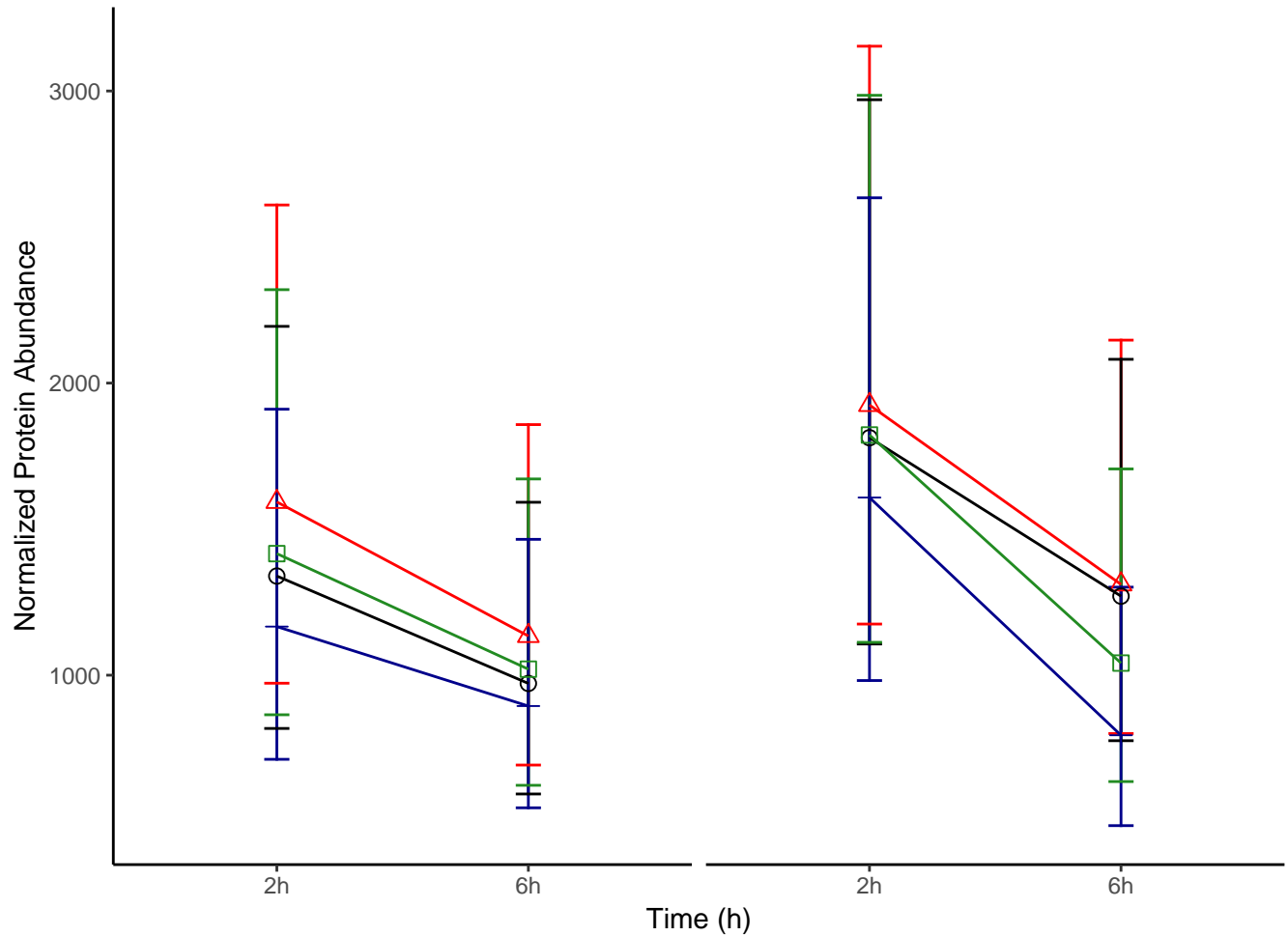


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SSB1\_STAAM

TSB

TSB-dex S-391

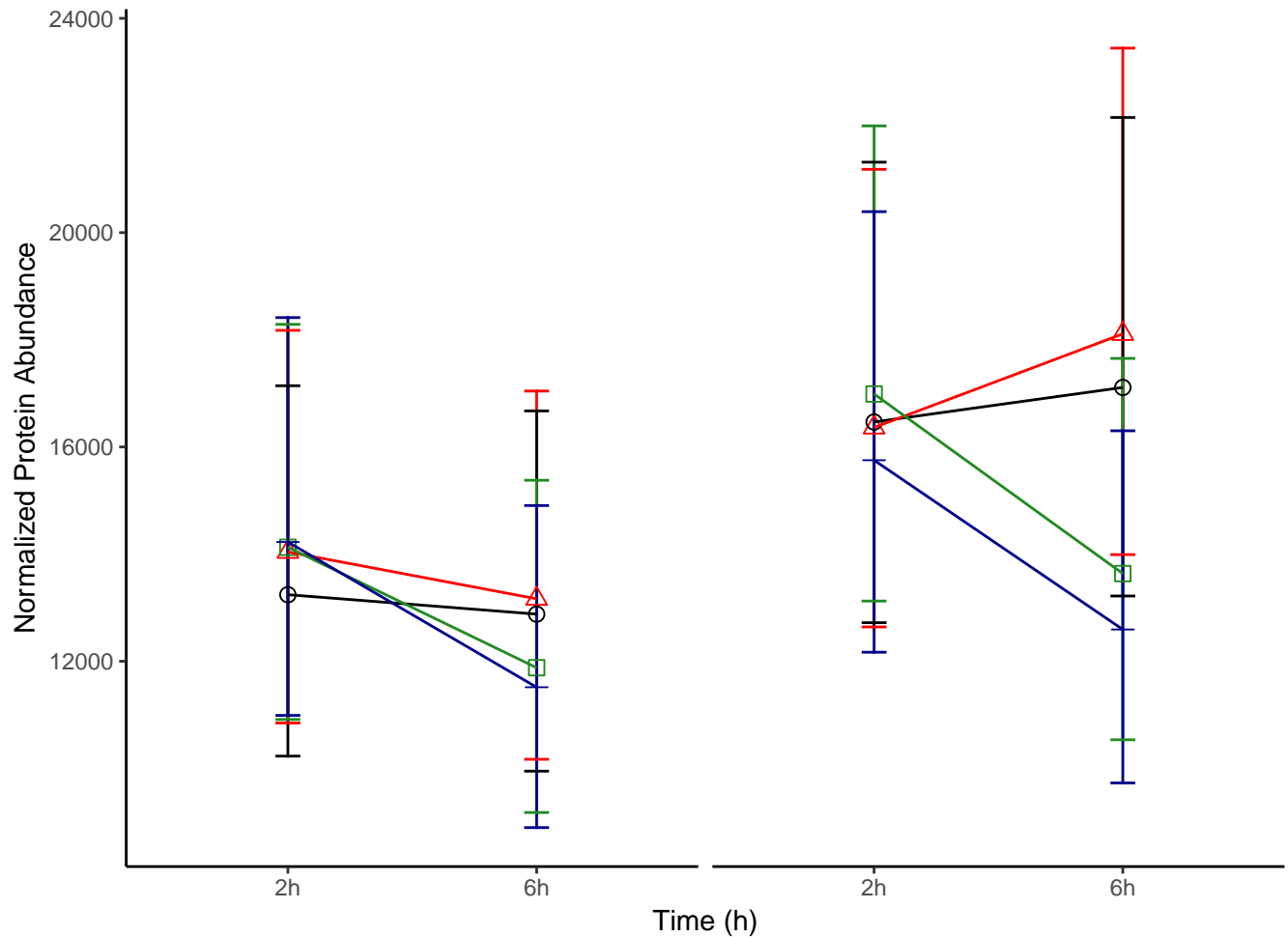


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SSB2\_STAAM

TSB

TSB-dex S-392



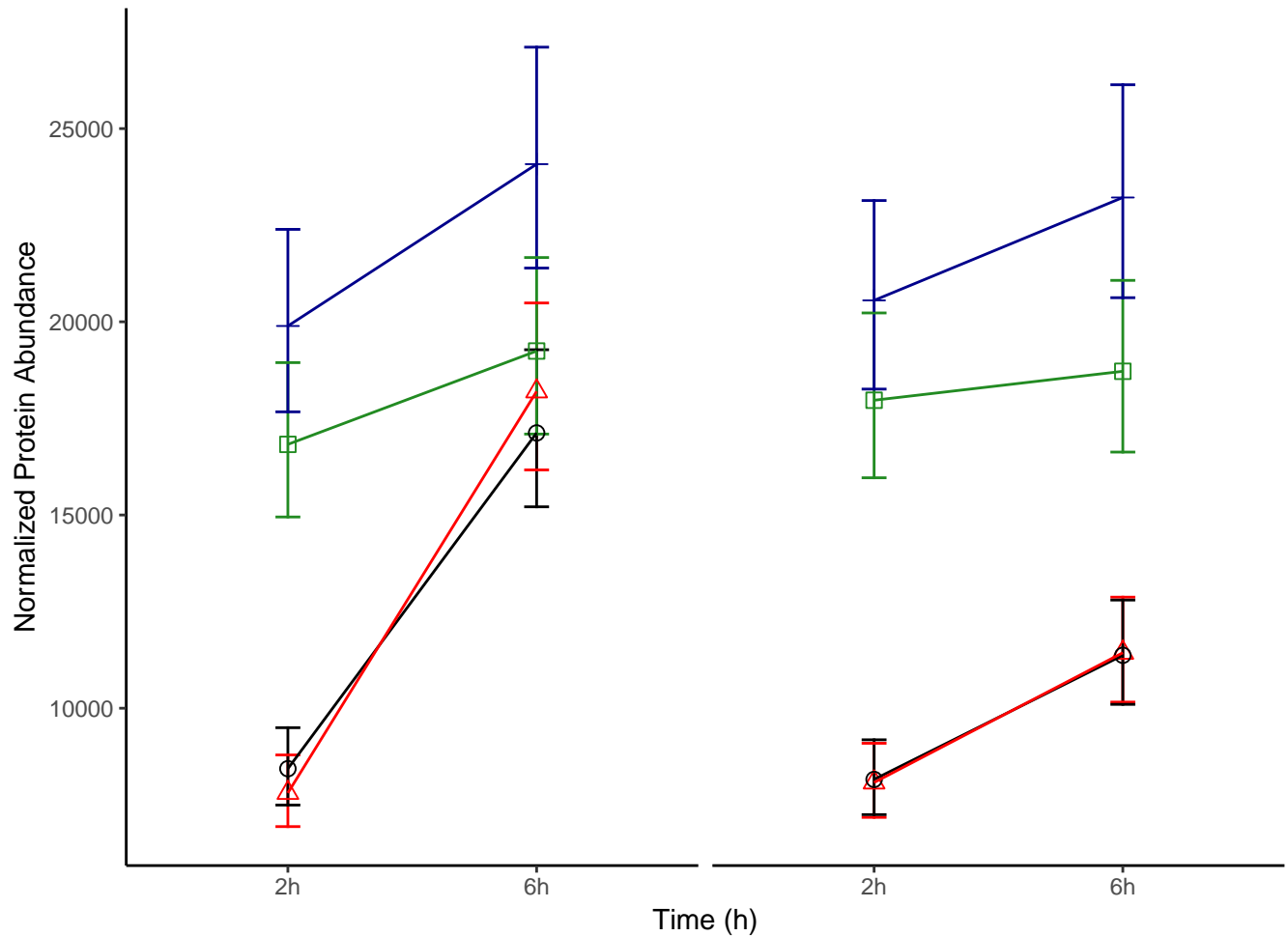
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# SUCC\_STAAM

TSB

TSB-dex S-393

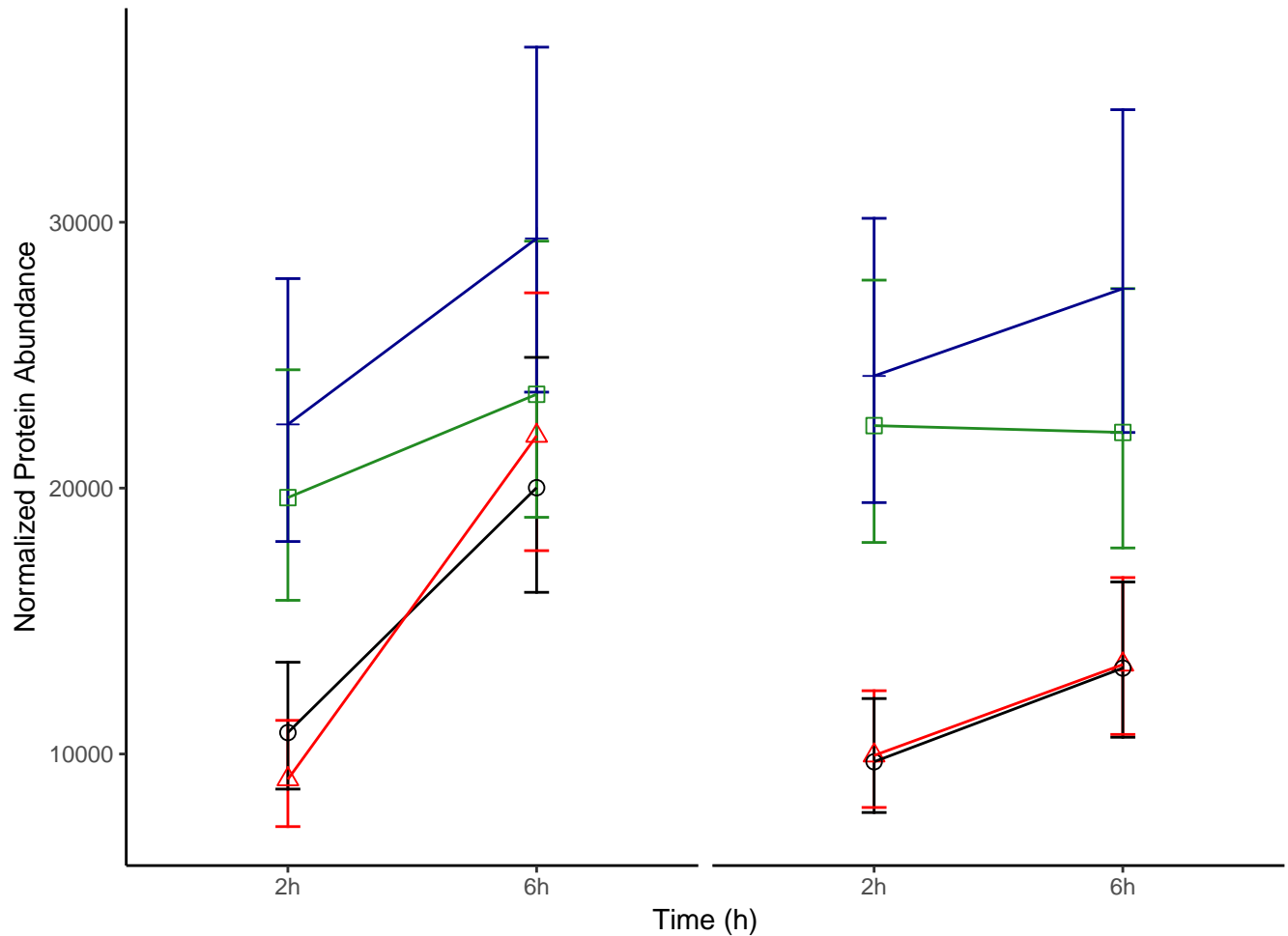


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SUCD\_STAAM

TSB

TSB-dex S-394

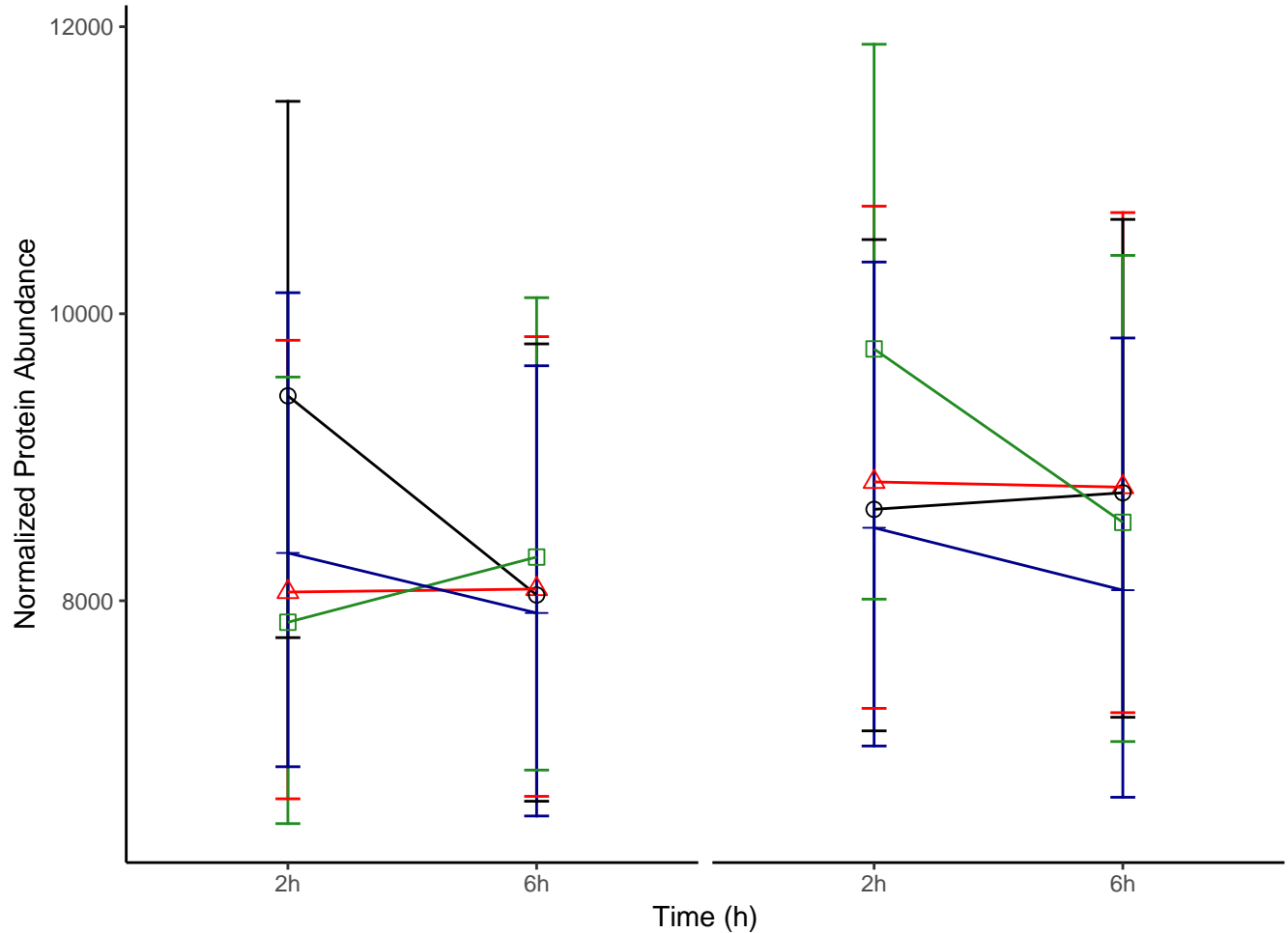


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYA\_STAAM

TSB

TSB-dex S-395

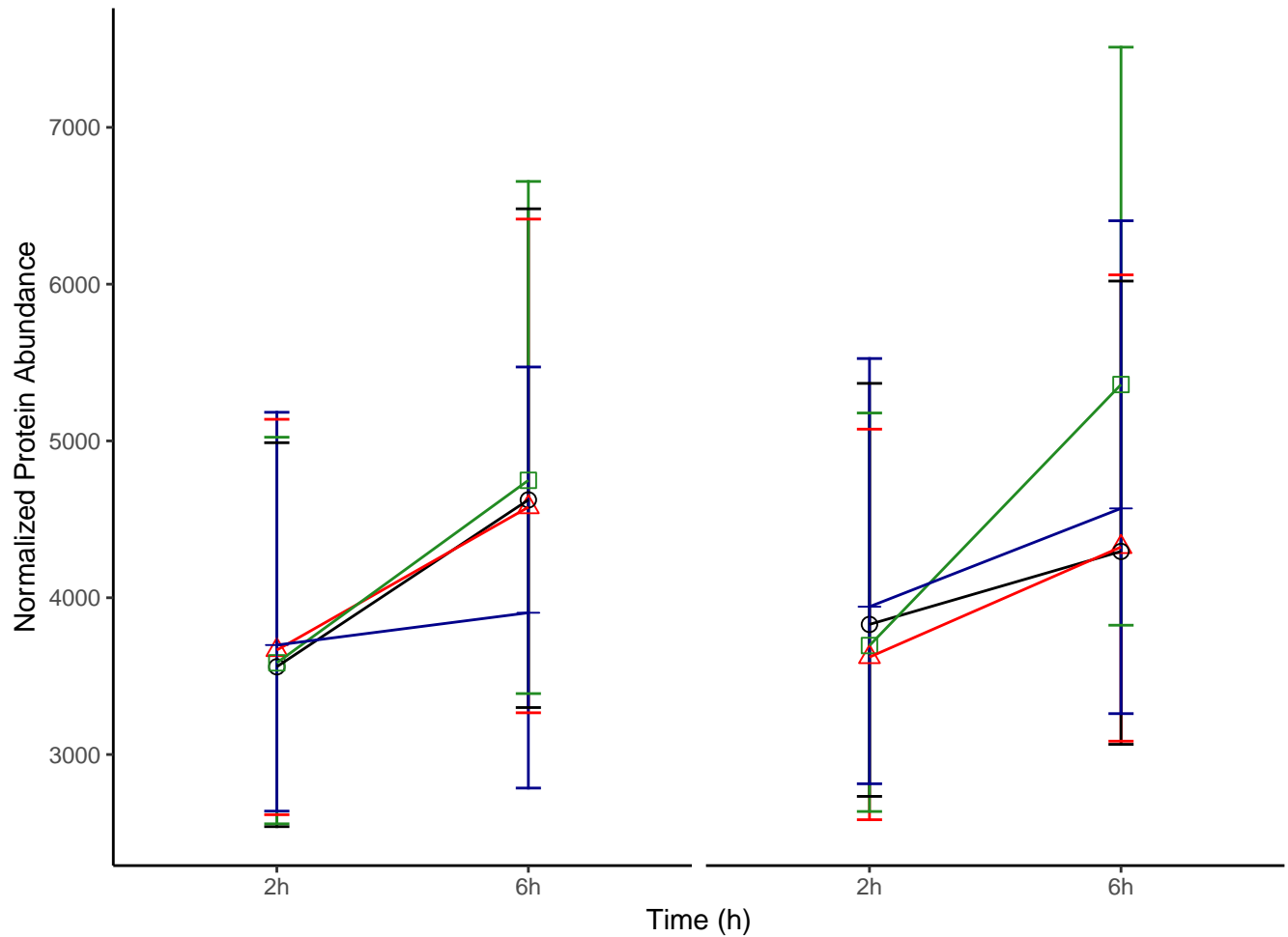


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYC\_STAAM

TSB

TSB-dex S-396

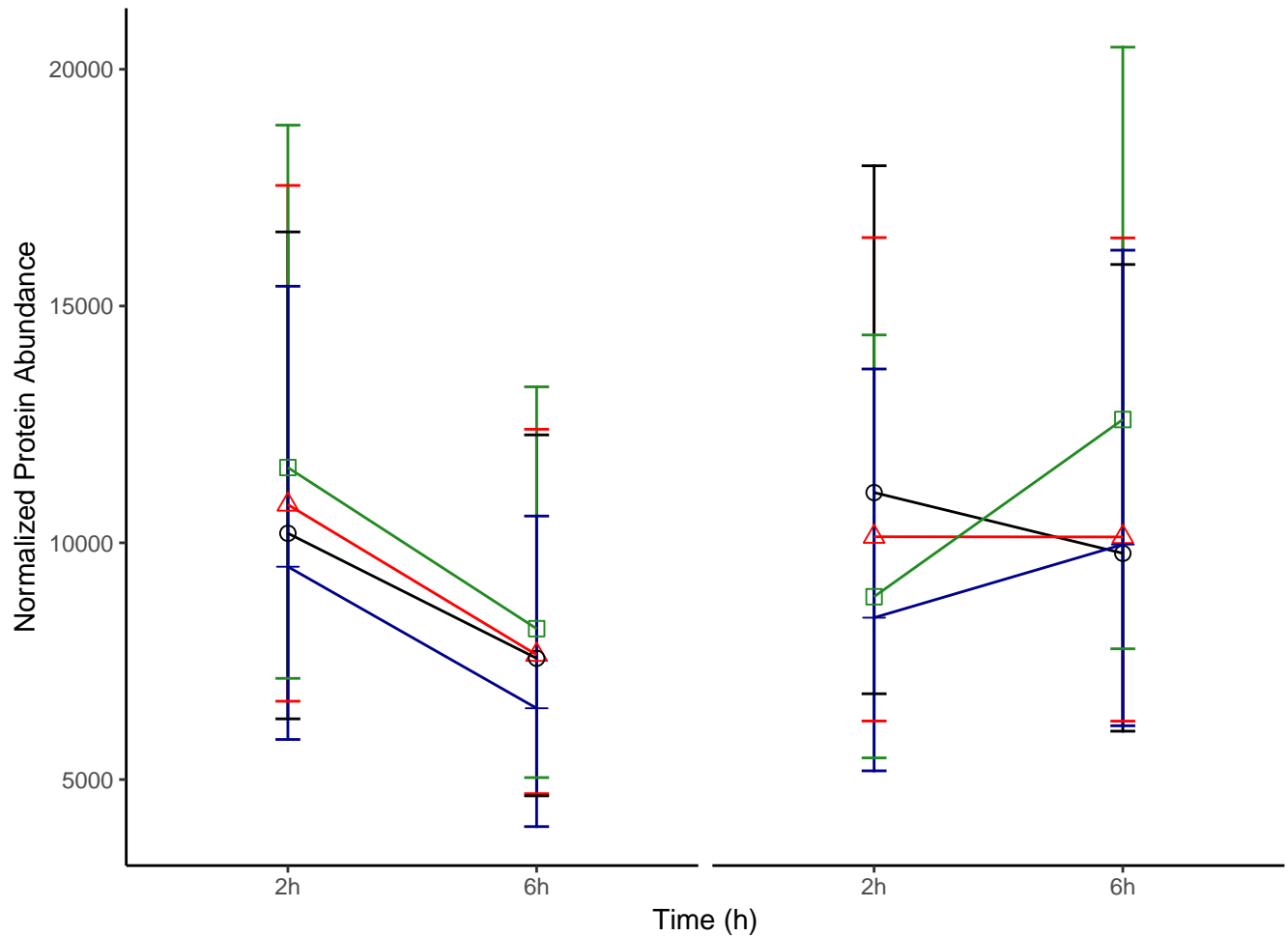


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYD\_STAAM

TSB

TSB-dex S-397

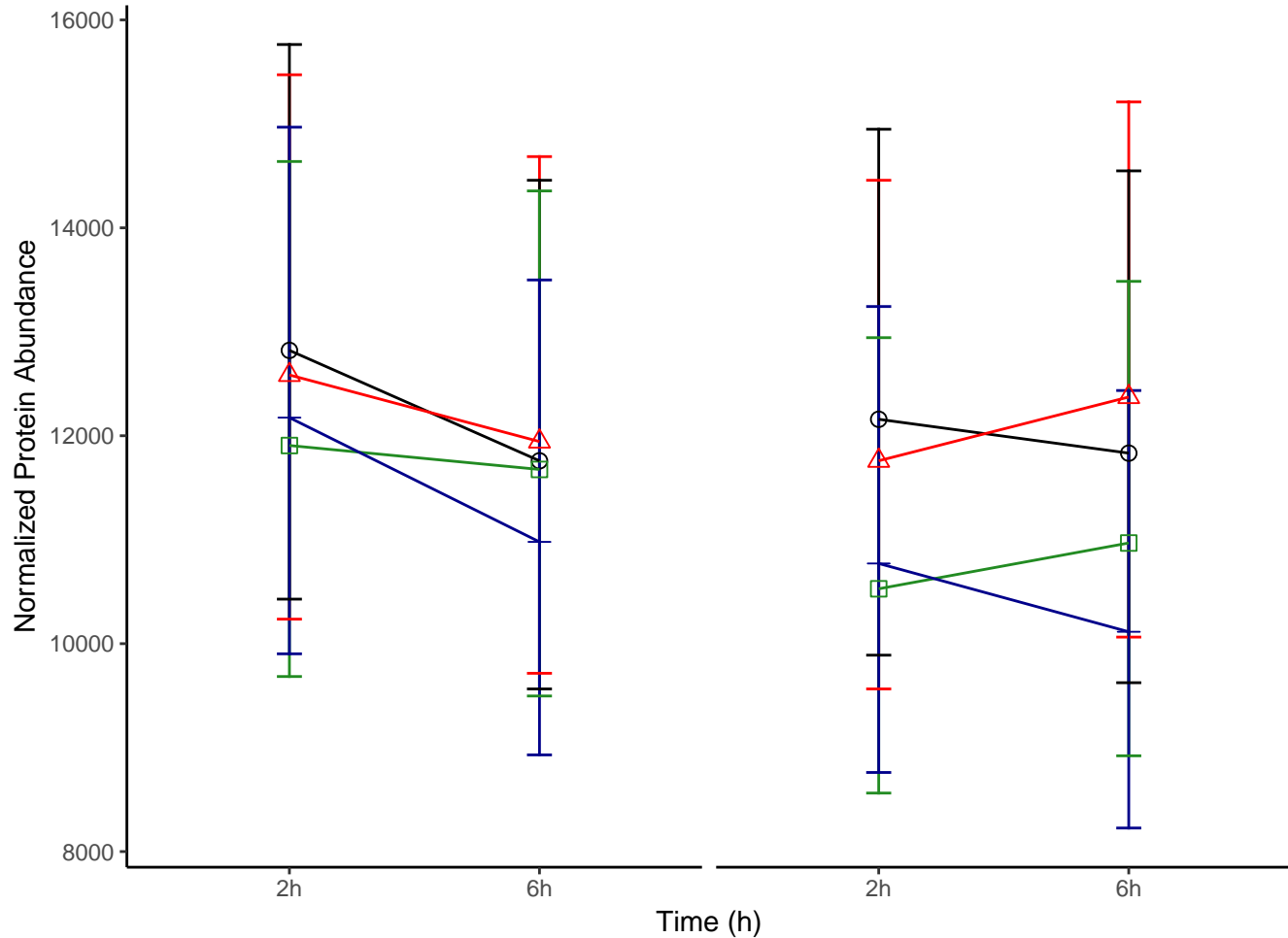


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYE\_STAAM

TSB

TSB-dex S-398

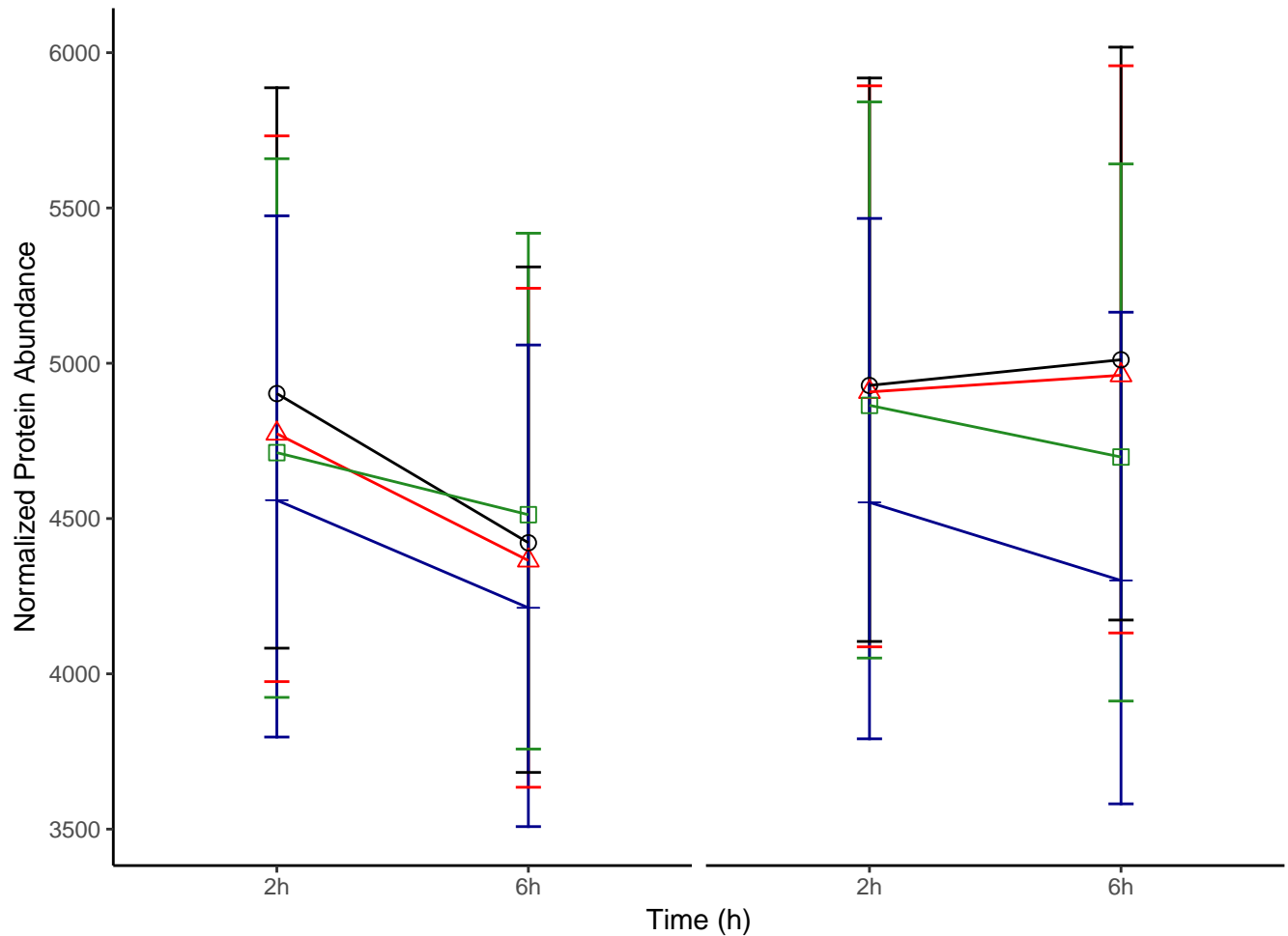


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYFB\_STAAM

TSB

TSB-dex S-399

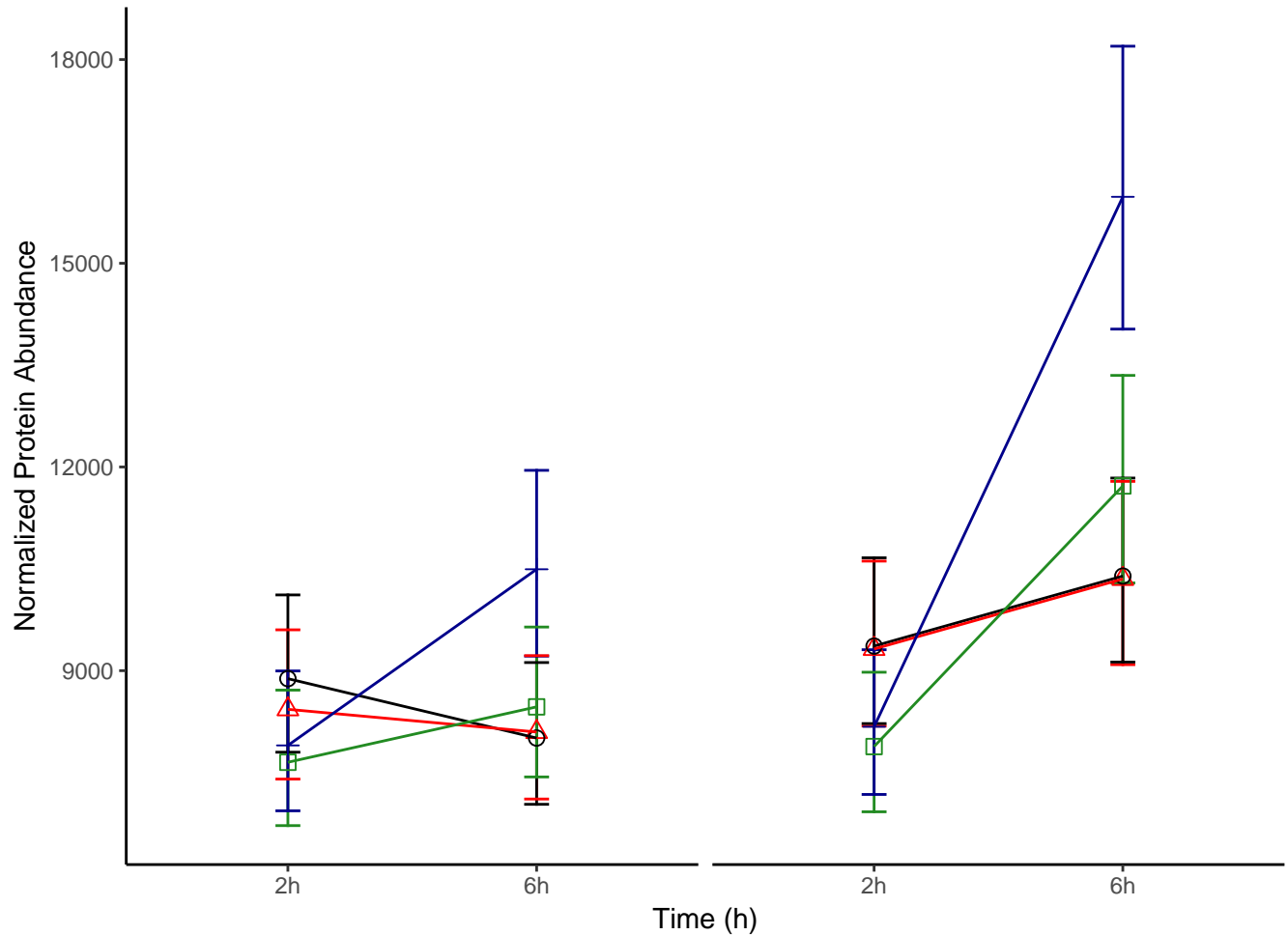


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYG\_STAAM

TSB

TSB-dex S-400



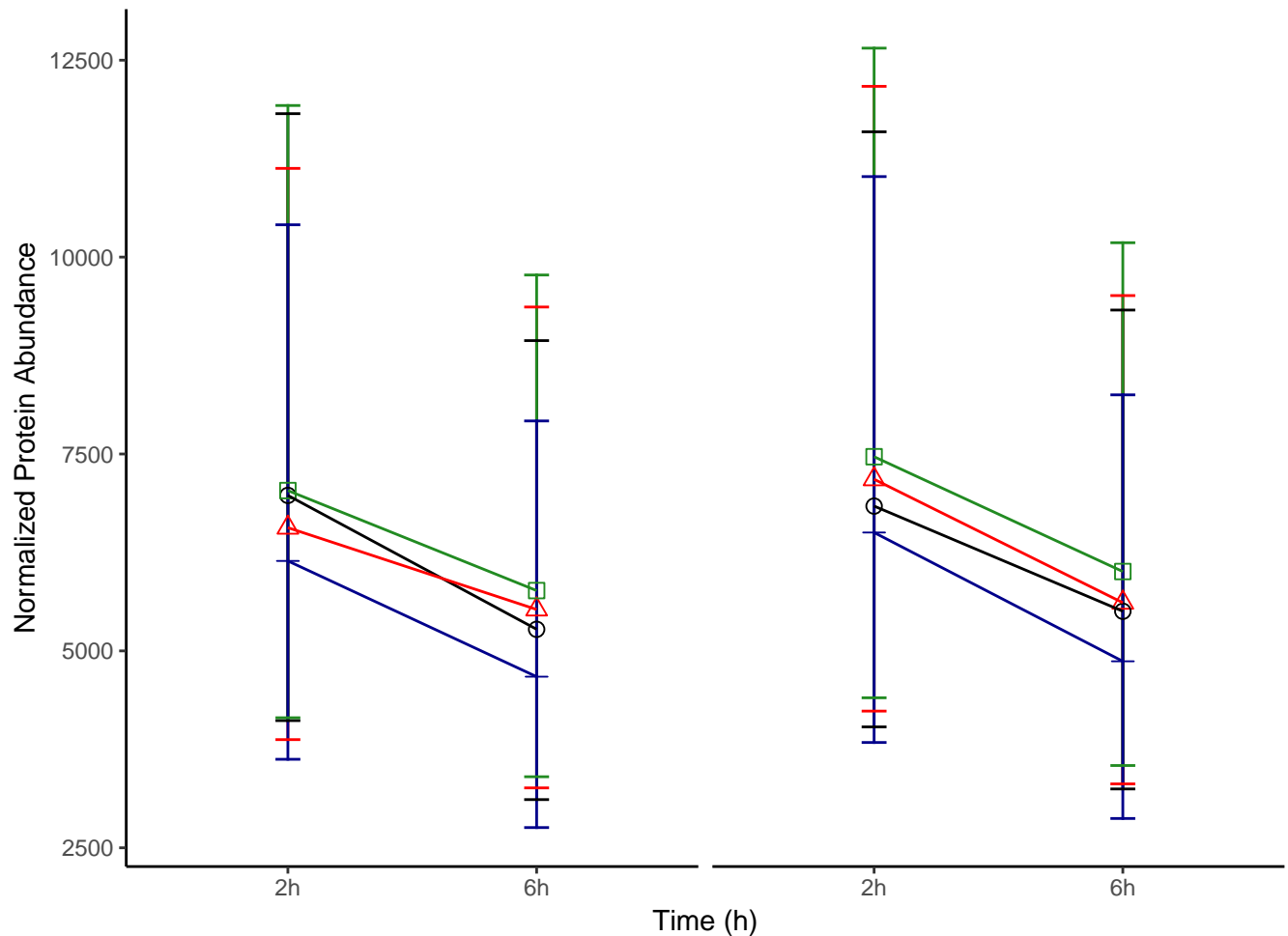
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# SYH\_STAAM

TSB

TSB-dex S-401

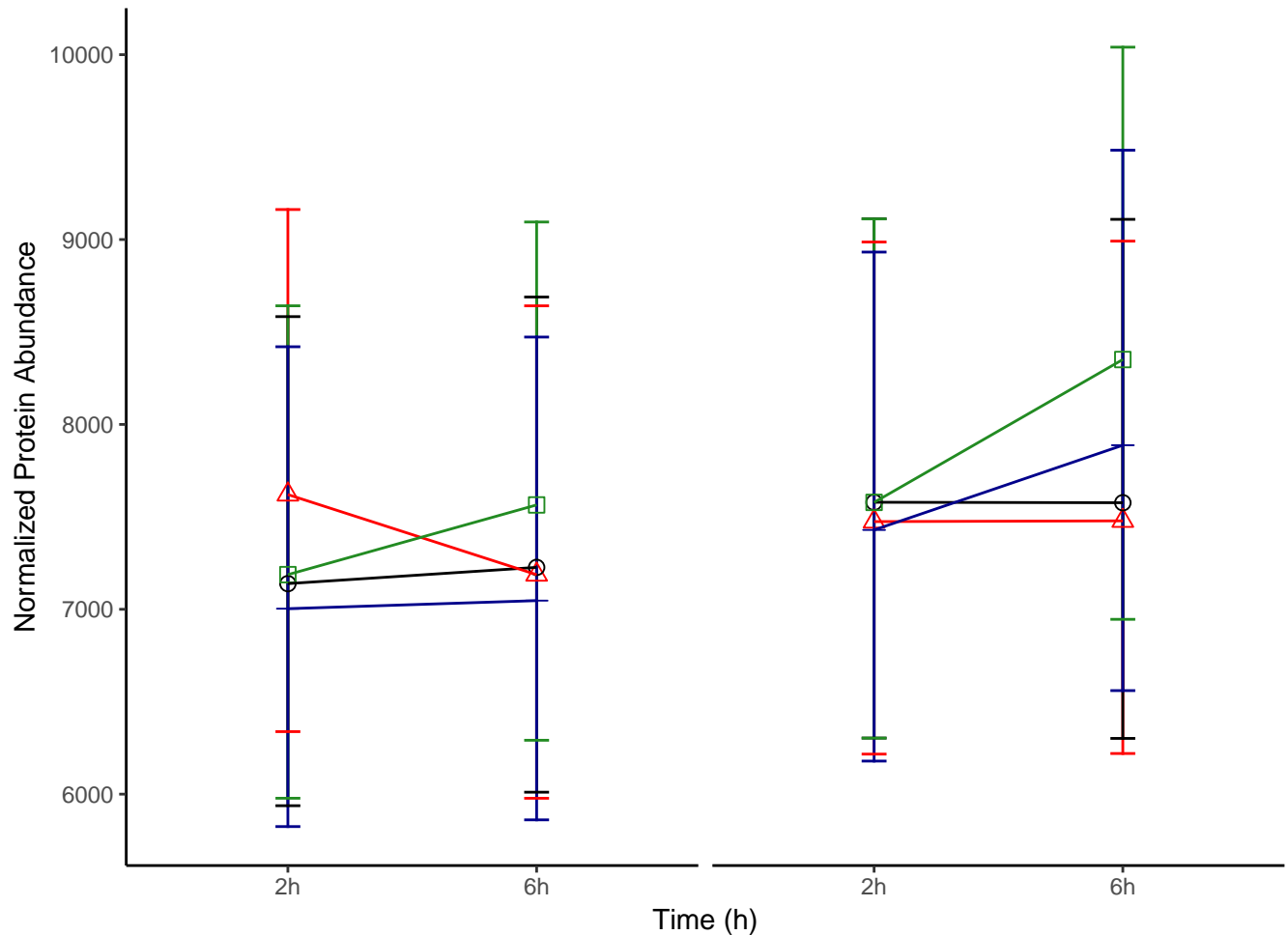


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYI\_STAAM

TSB

TSB-dex S-402

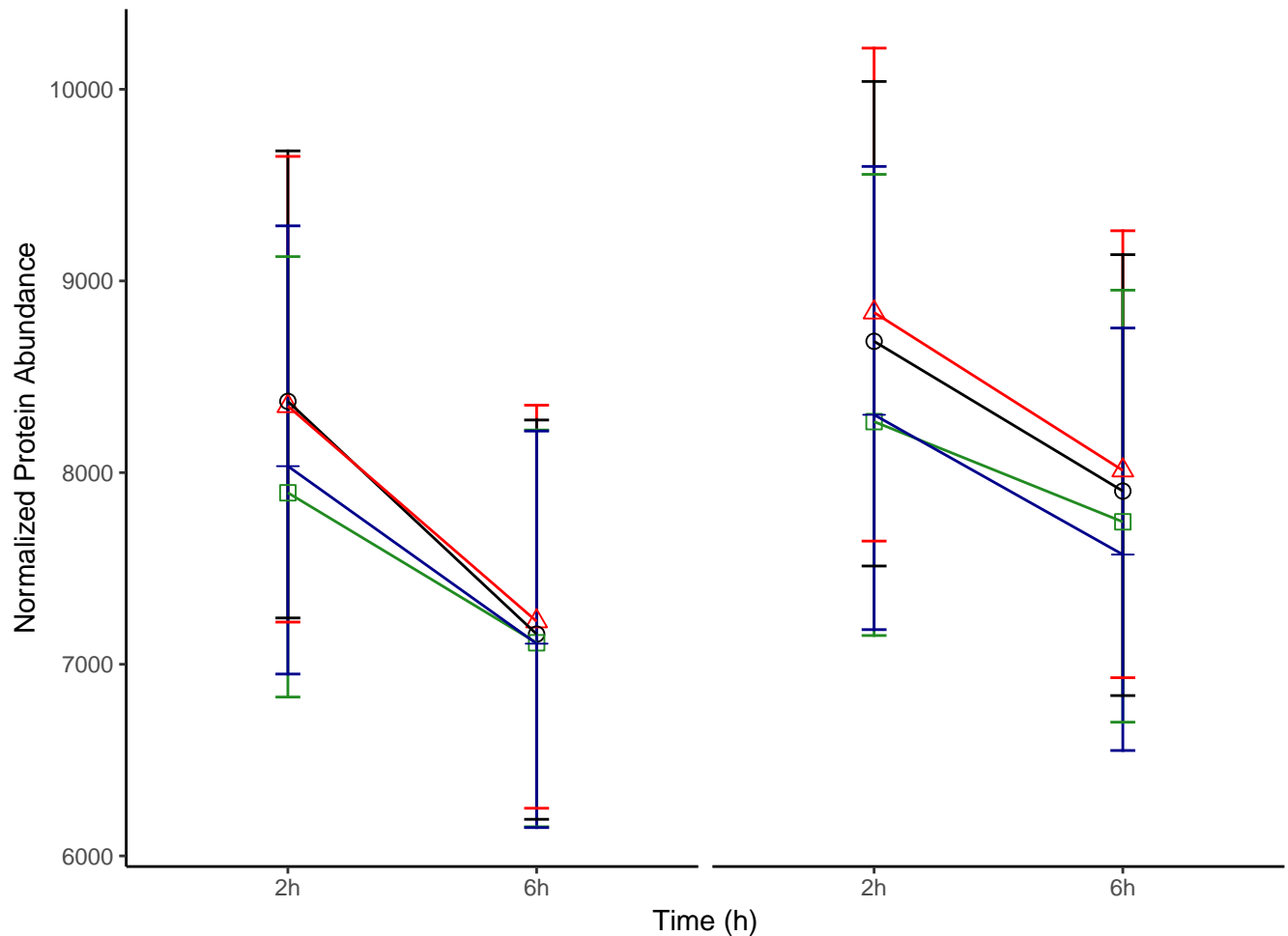


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYK\_STAAM

TSB

TSB-dex S-403

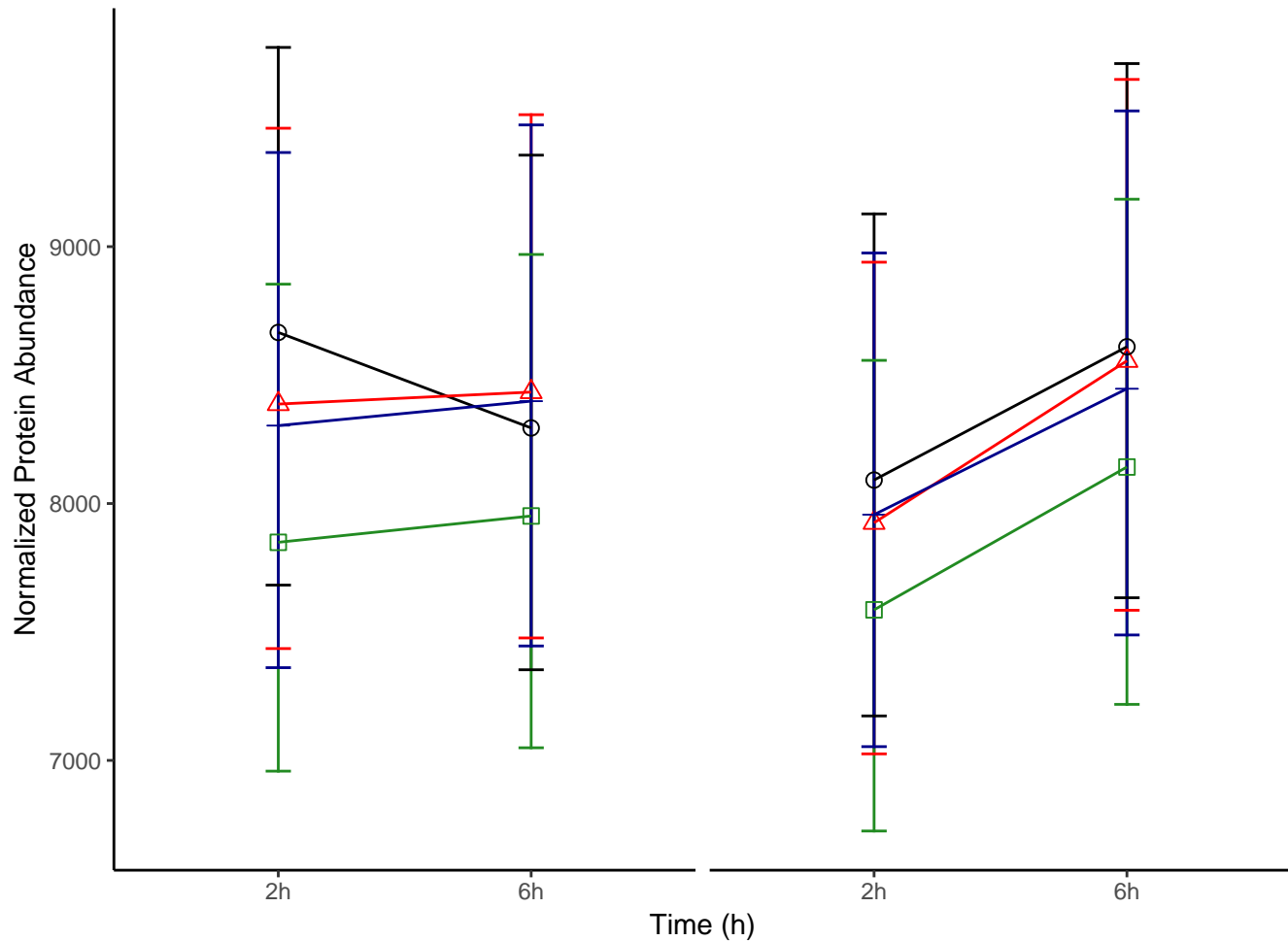


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## SYM\_STAAM

TSB

TSB-dex S-404

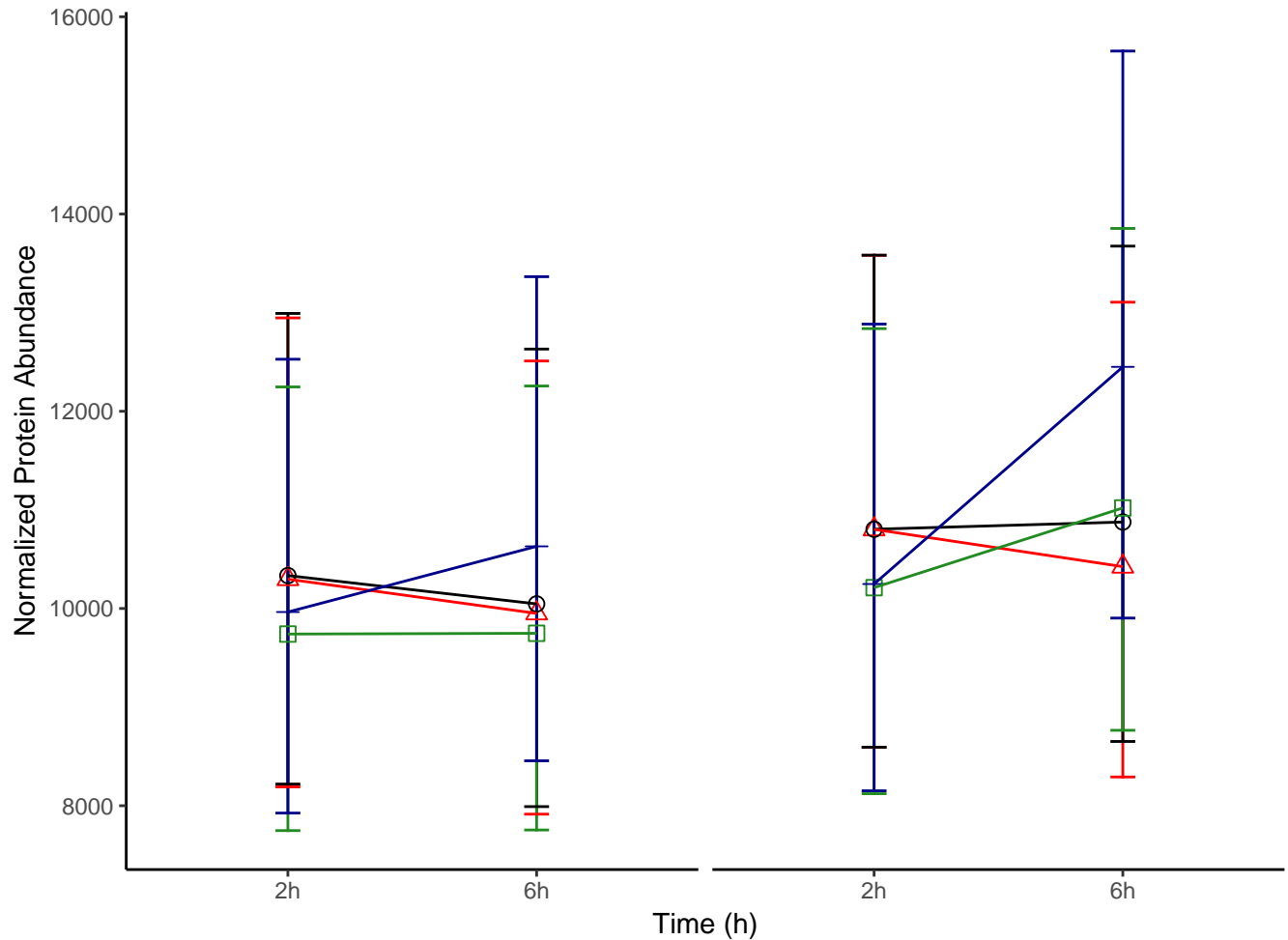


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYN\_STAAM

TSB

TSB-dex S-405

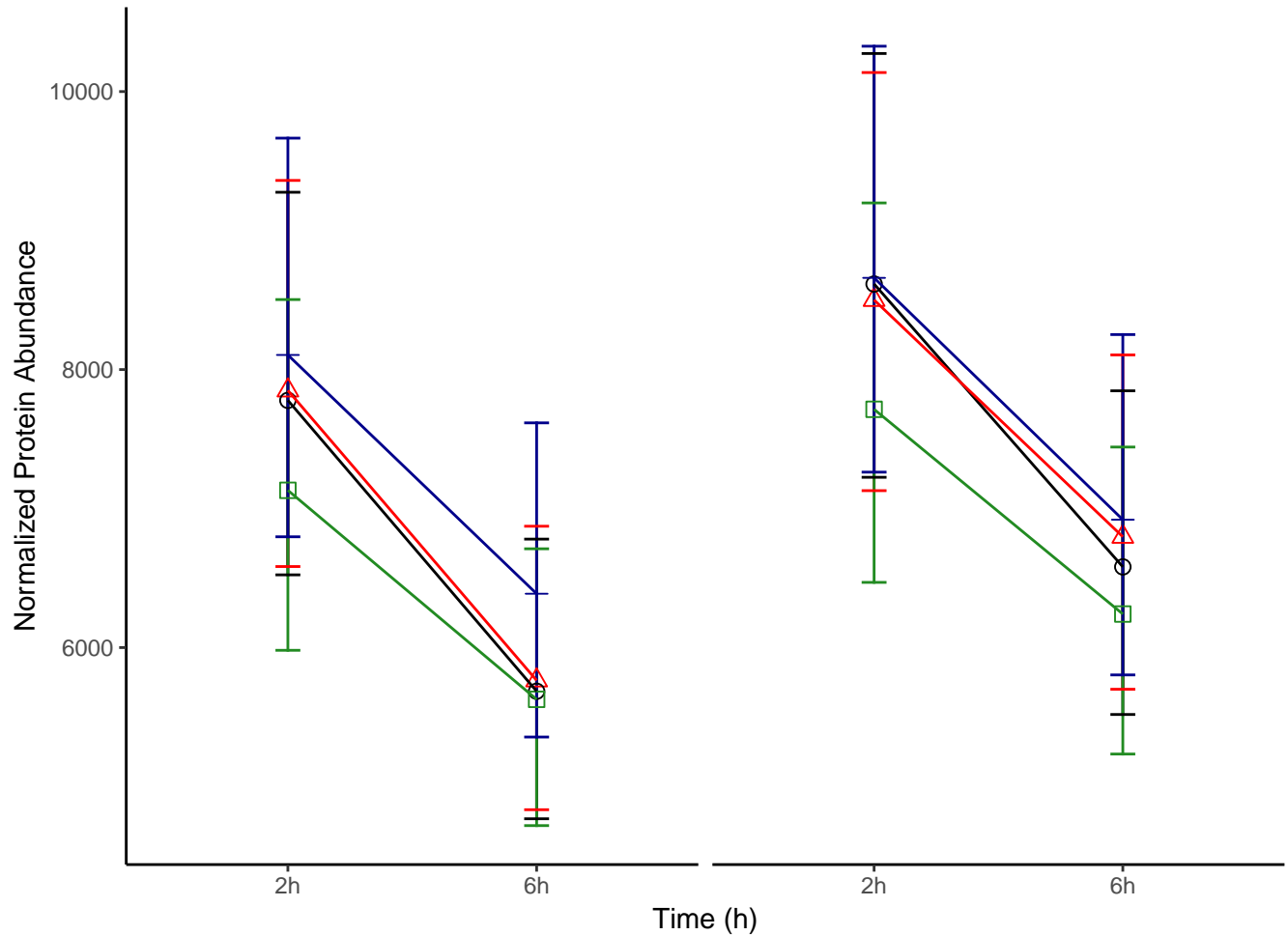


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYP\_STAAM

TSB

TSB-dex S-406

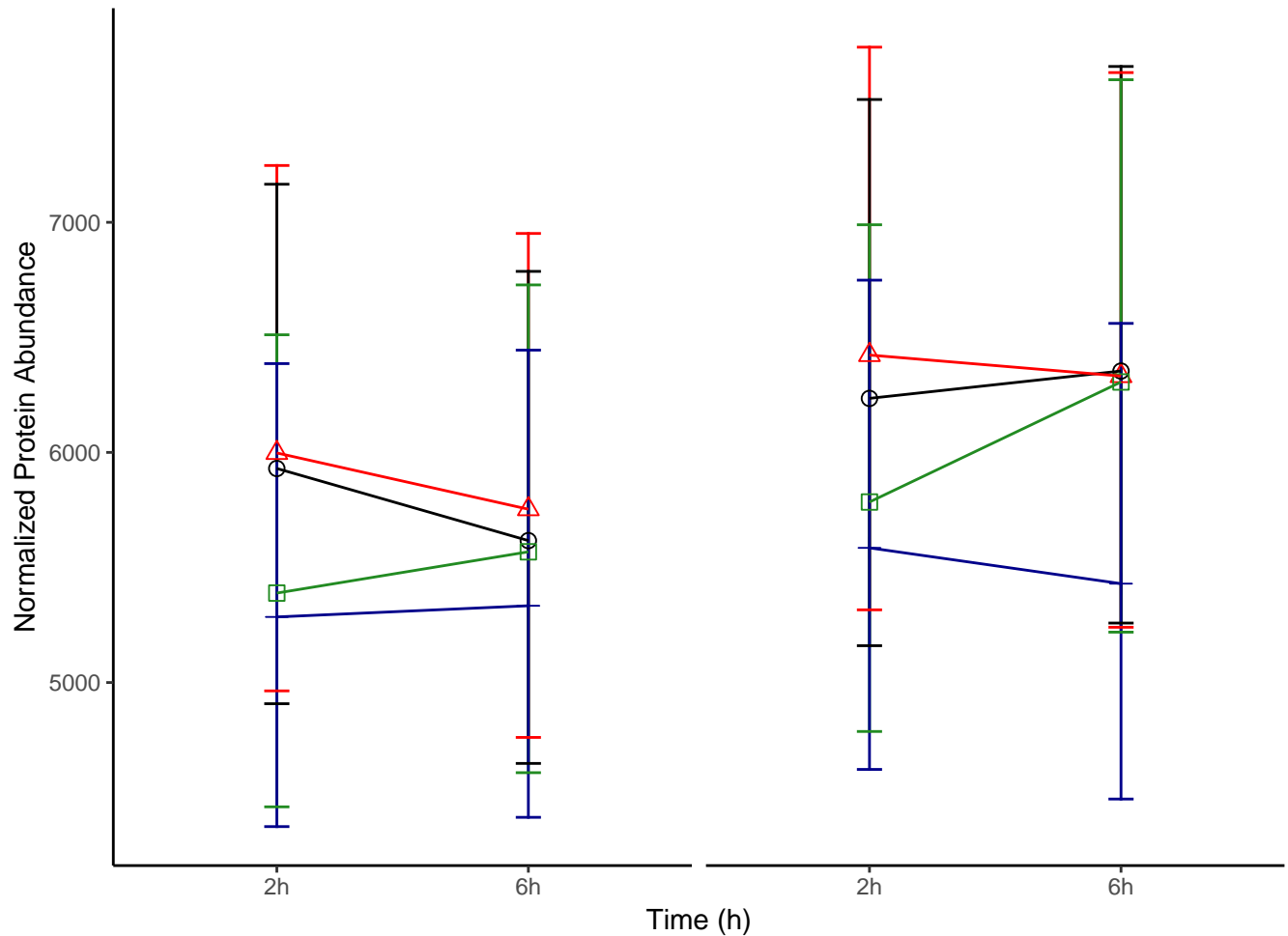


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYR\_STAAM

TSB

TSB-dex S-407

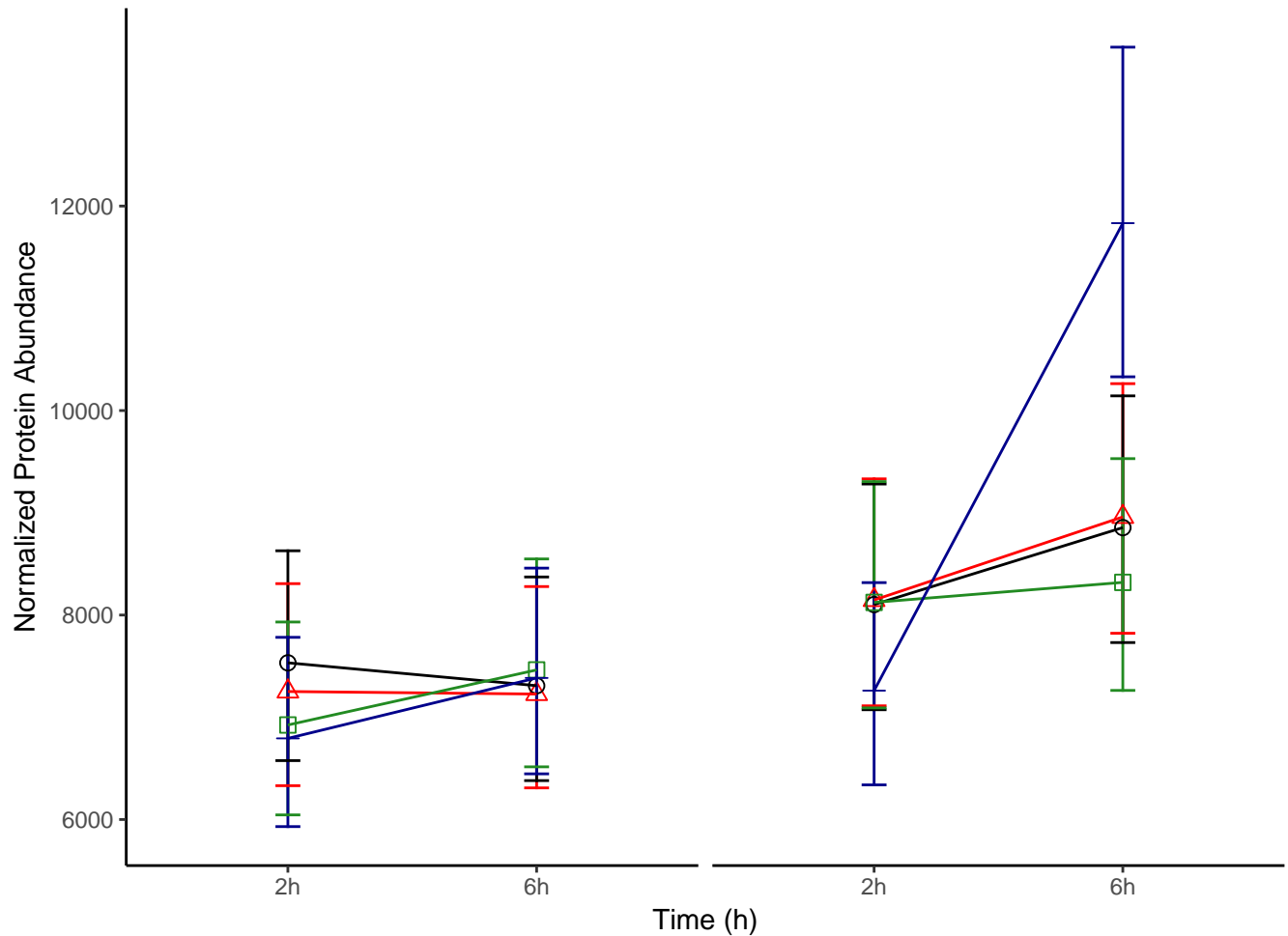


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYS\_STAAM

TSB

TSB-dex S-408



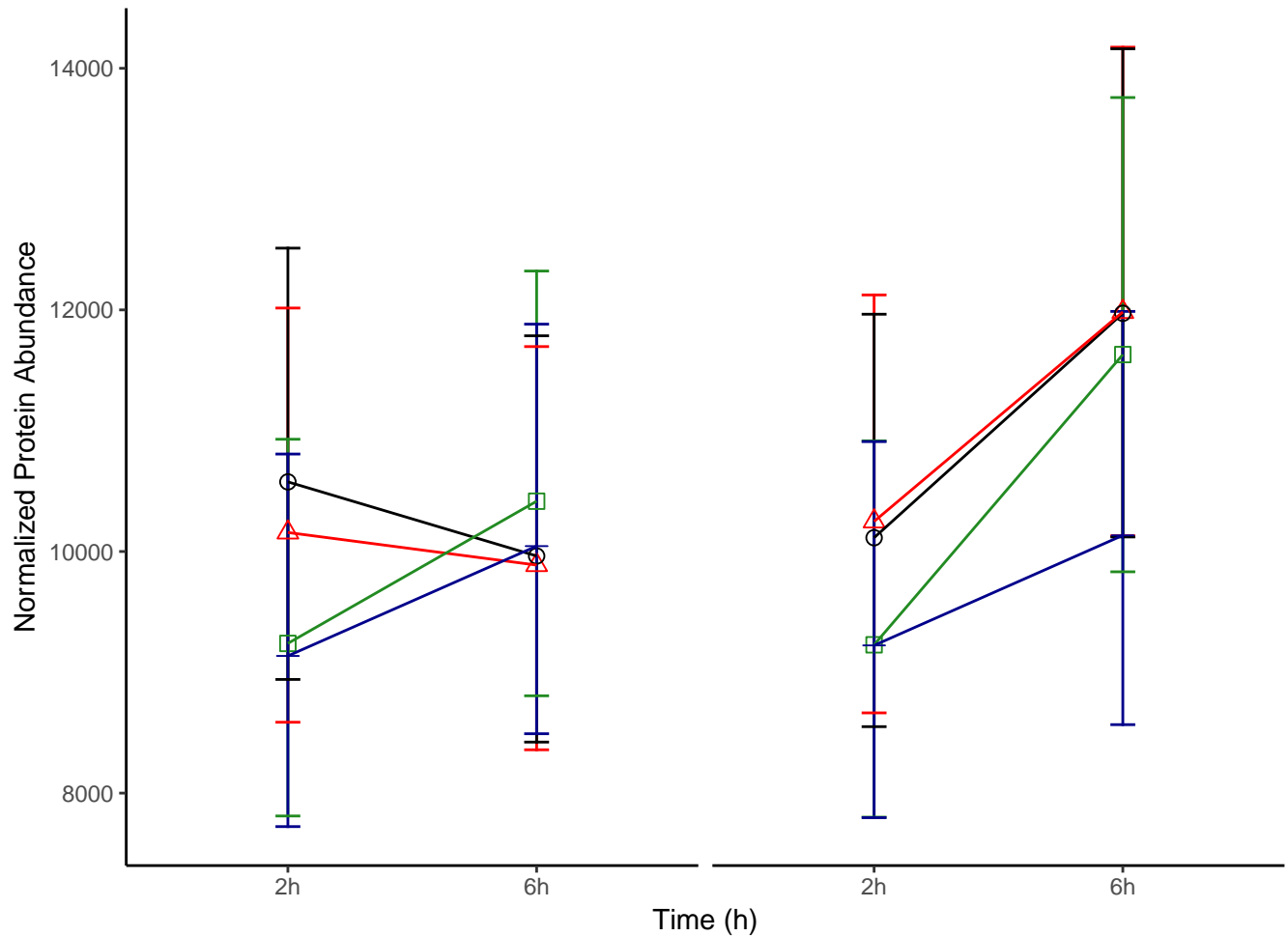
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# SYT\_STAAM

TSB

TSB-dex S-409

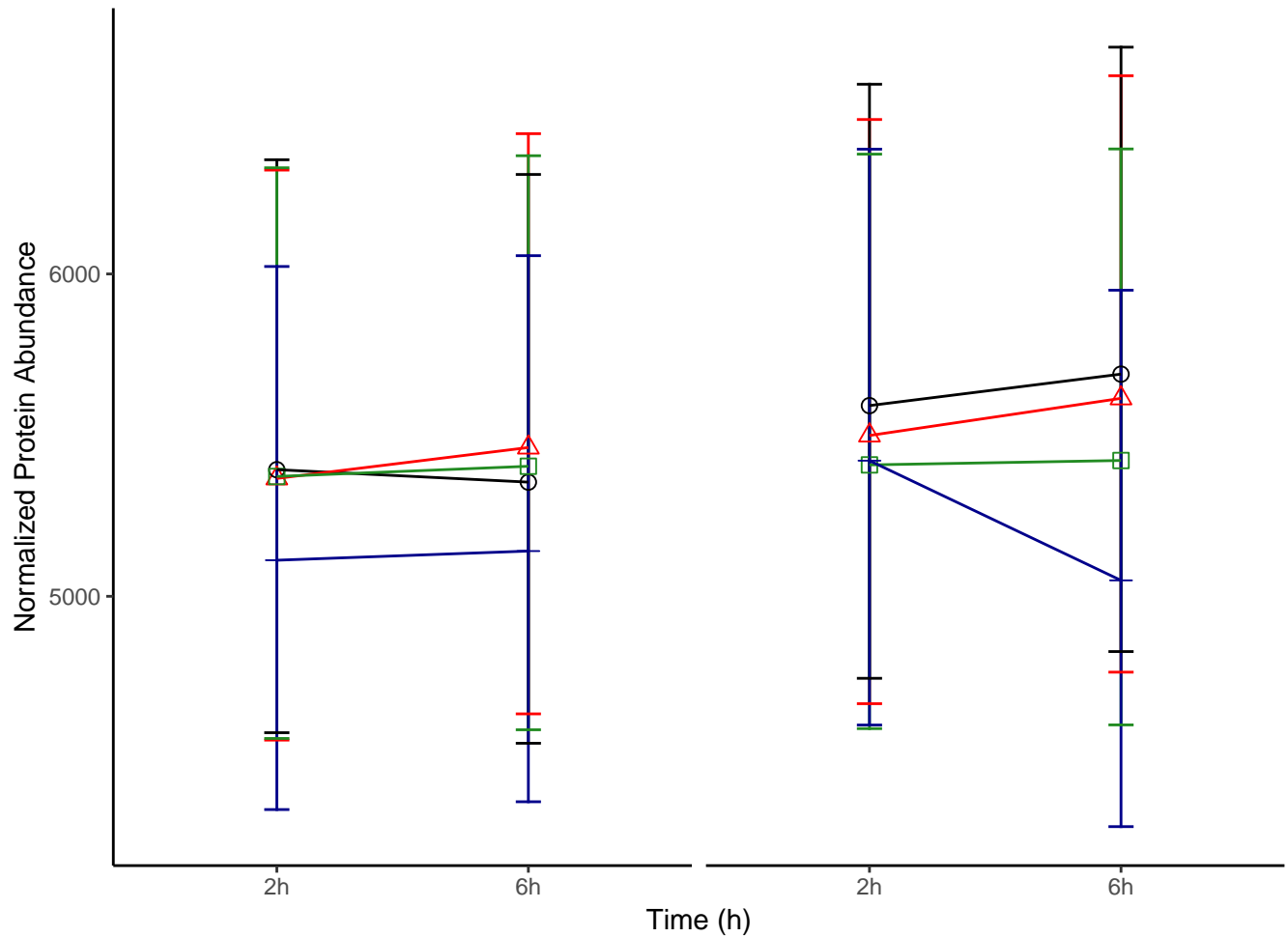


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYV\_STAAM

TSB

TSB-dex S-410

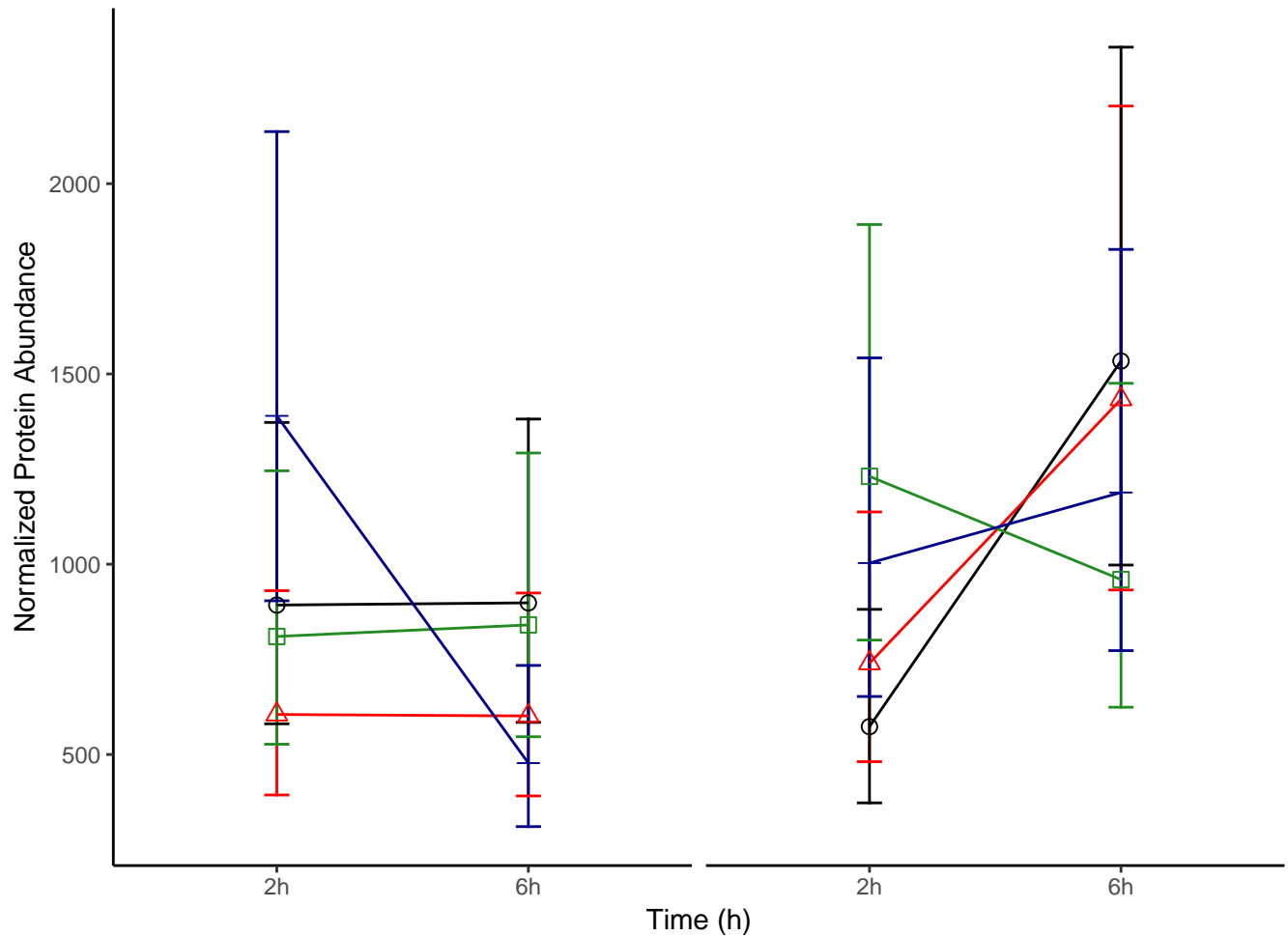


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYW\_STAAM

TSB

TSB-dex S-411

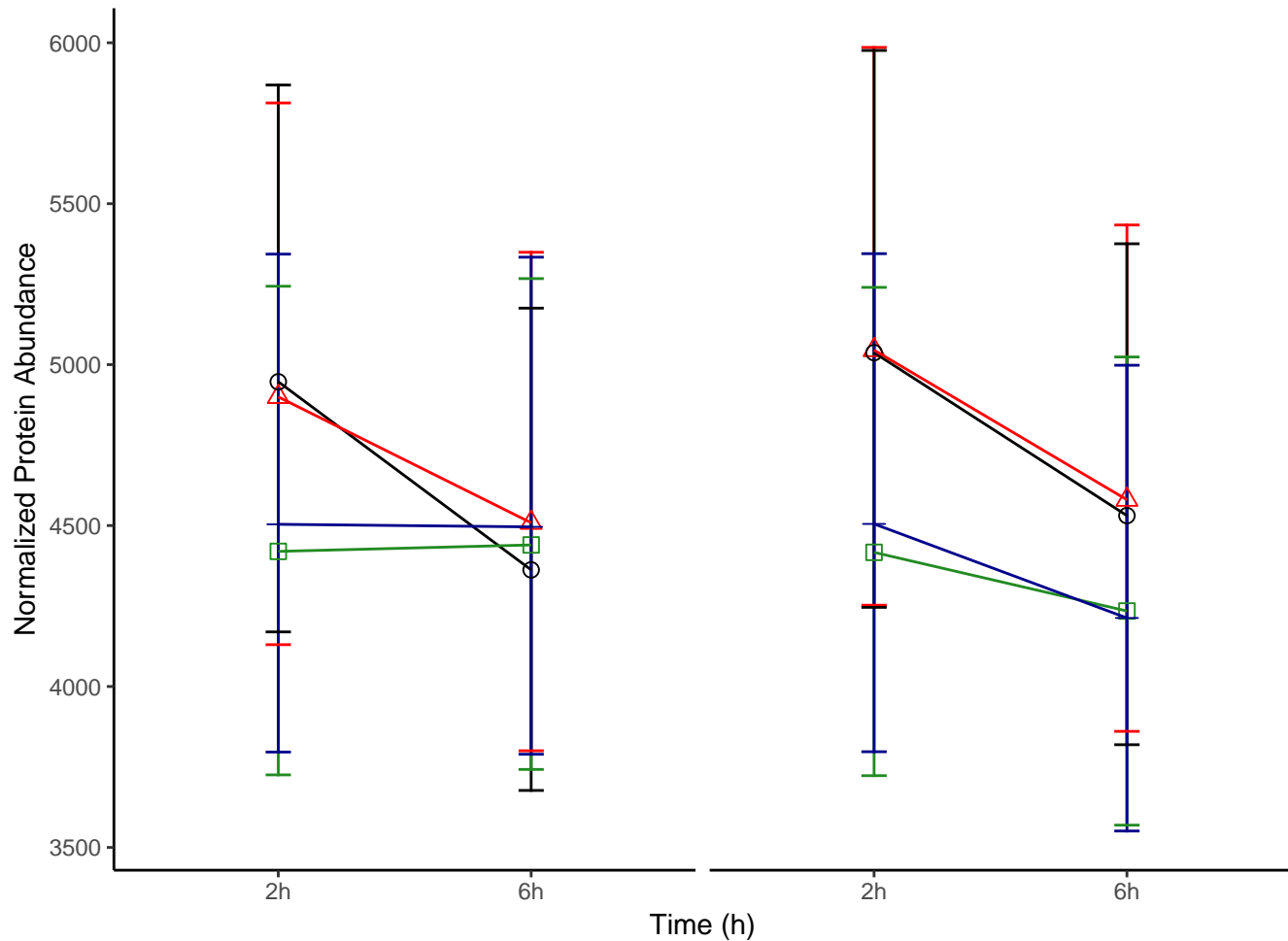


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYT\_STAAM

TSB

TSB-dex S-412

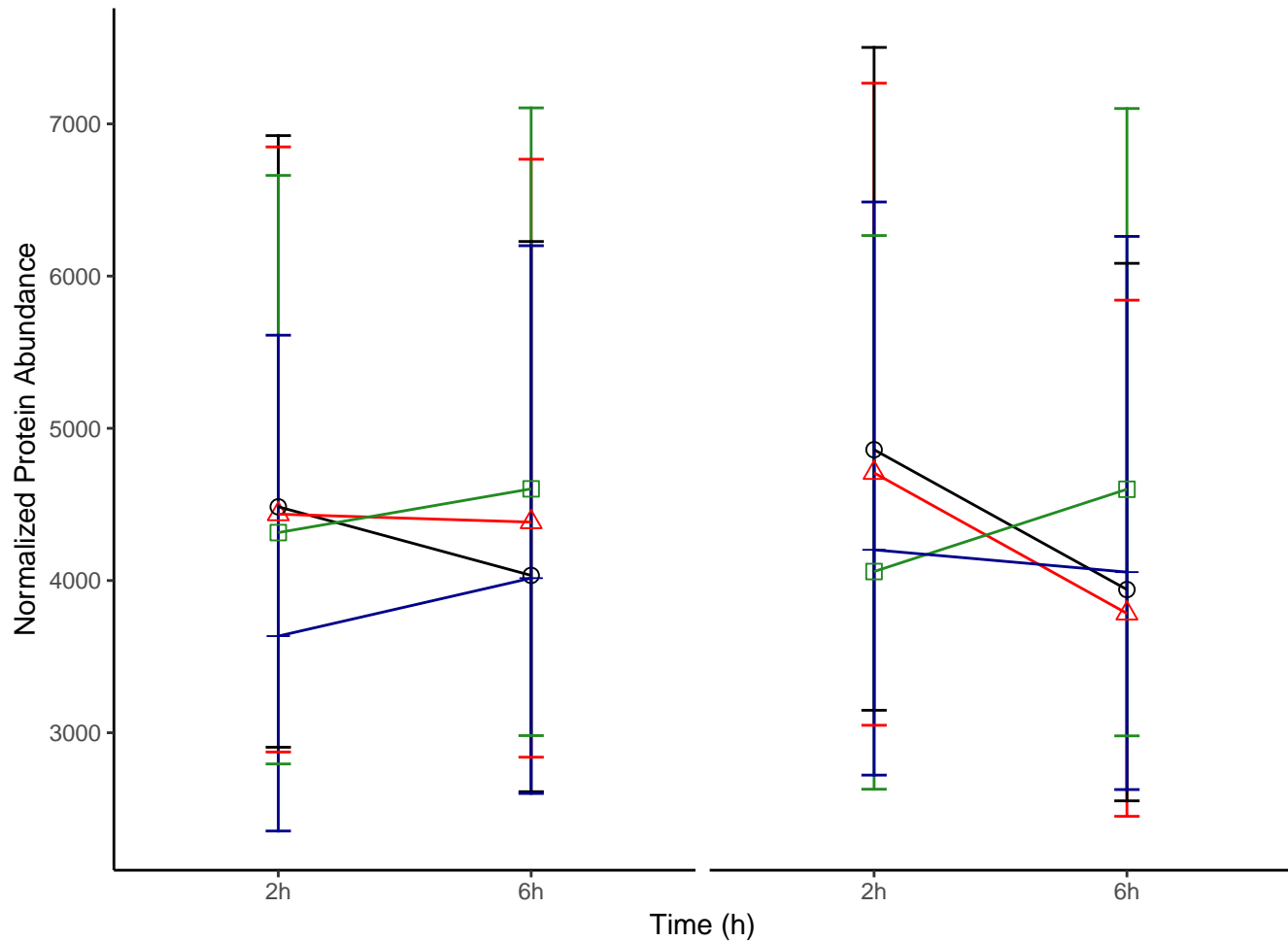


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# T431\_STAAM

TSB

TSB-dex S-413

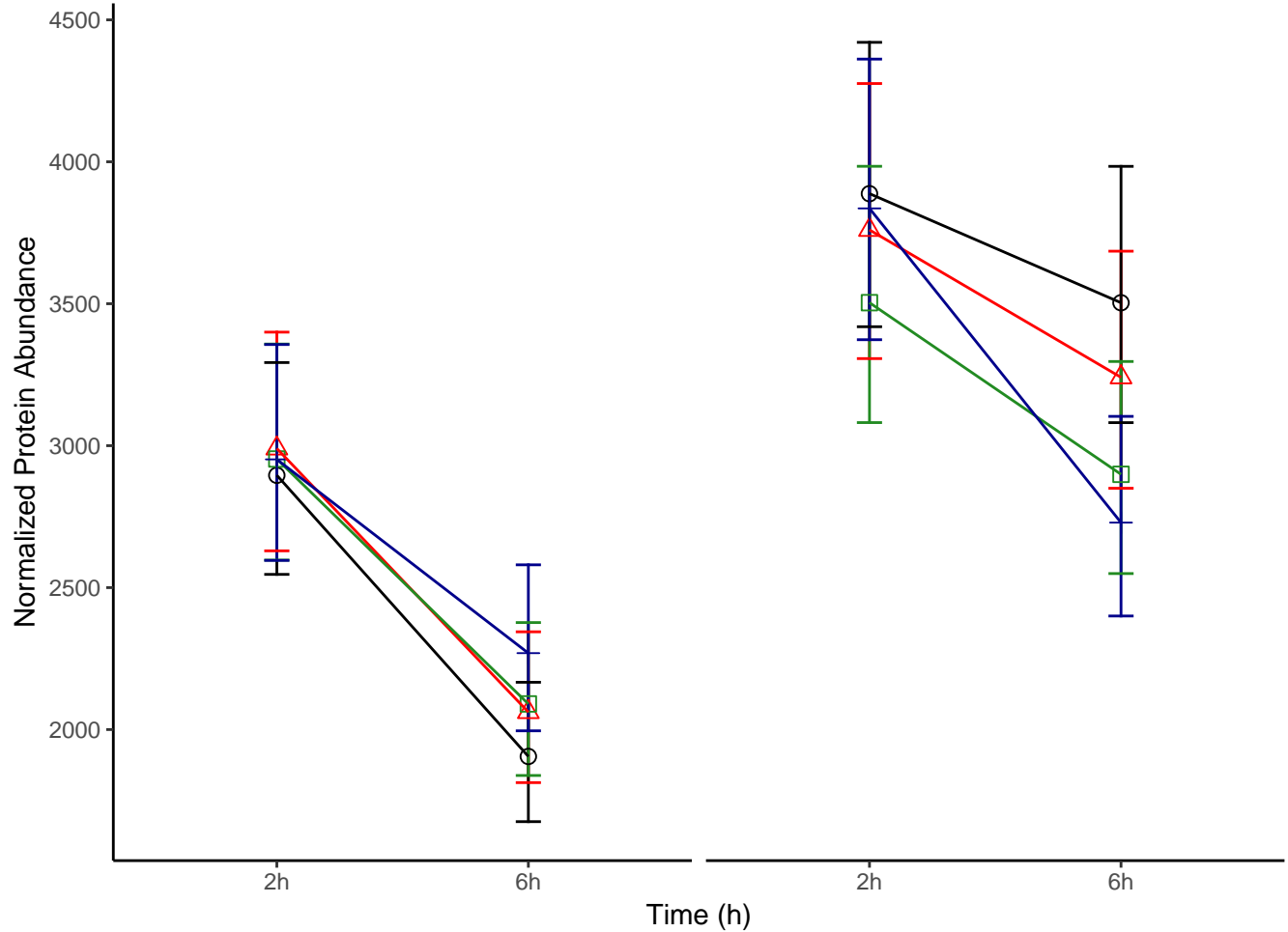


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# TADA\_STAAM

TSB

TSB-dex S-414

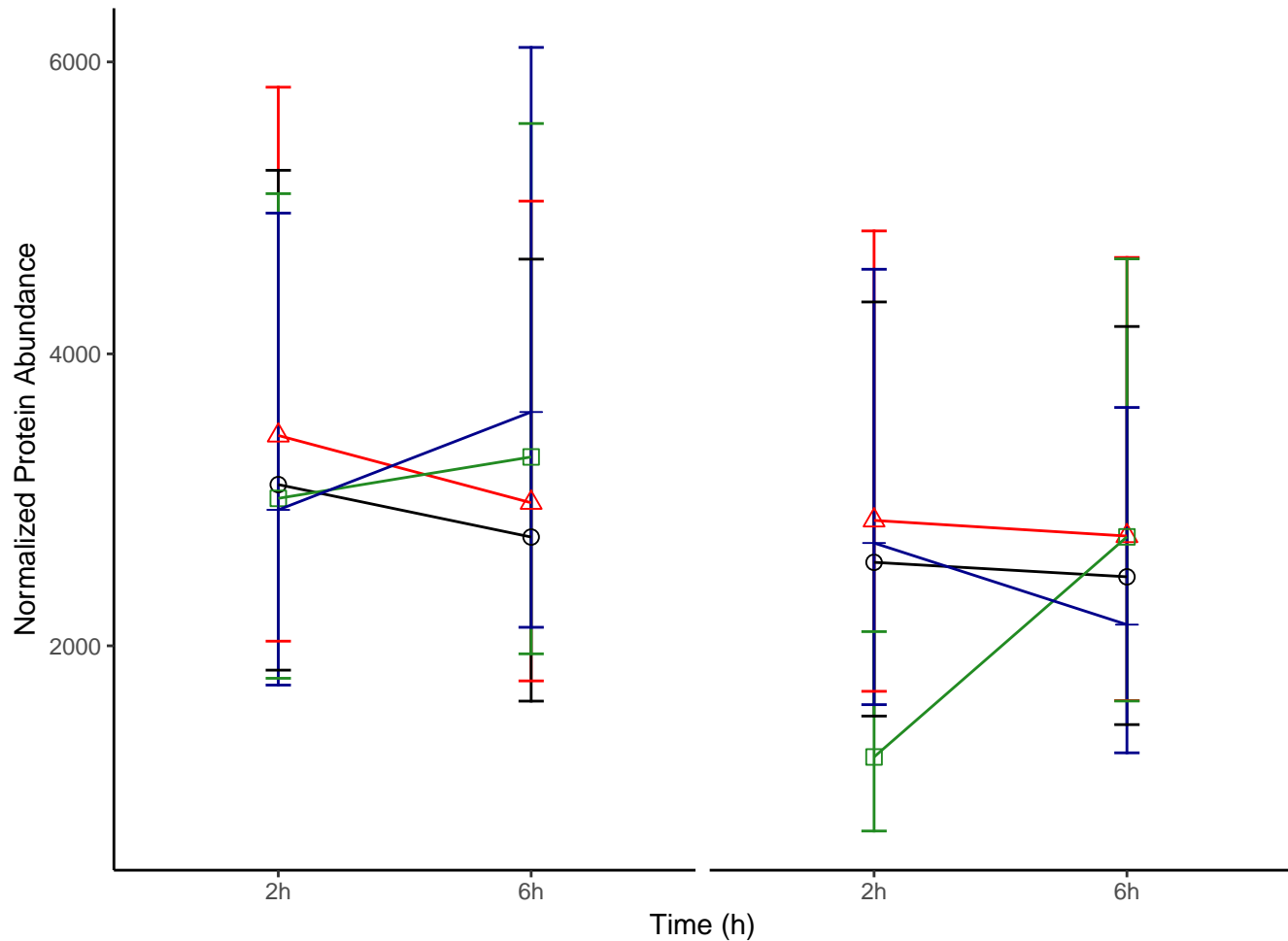


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## TAGA\_STAAM

TSB

TSB-dex S-415

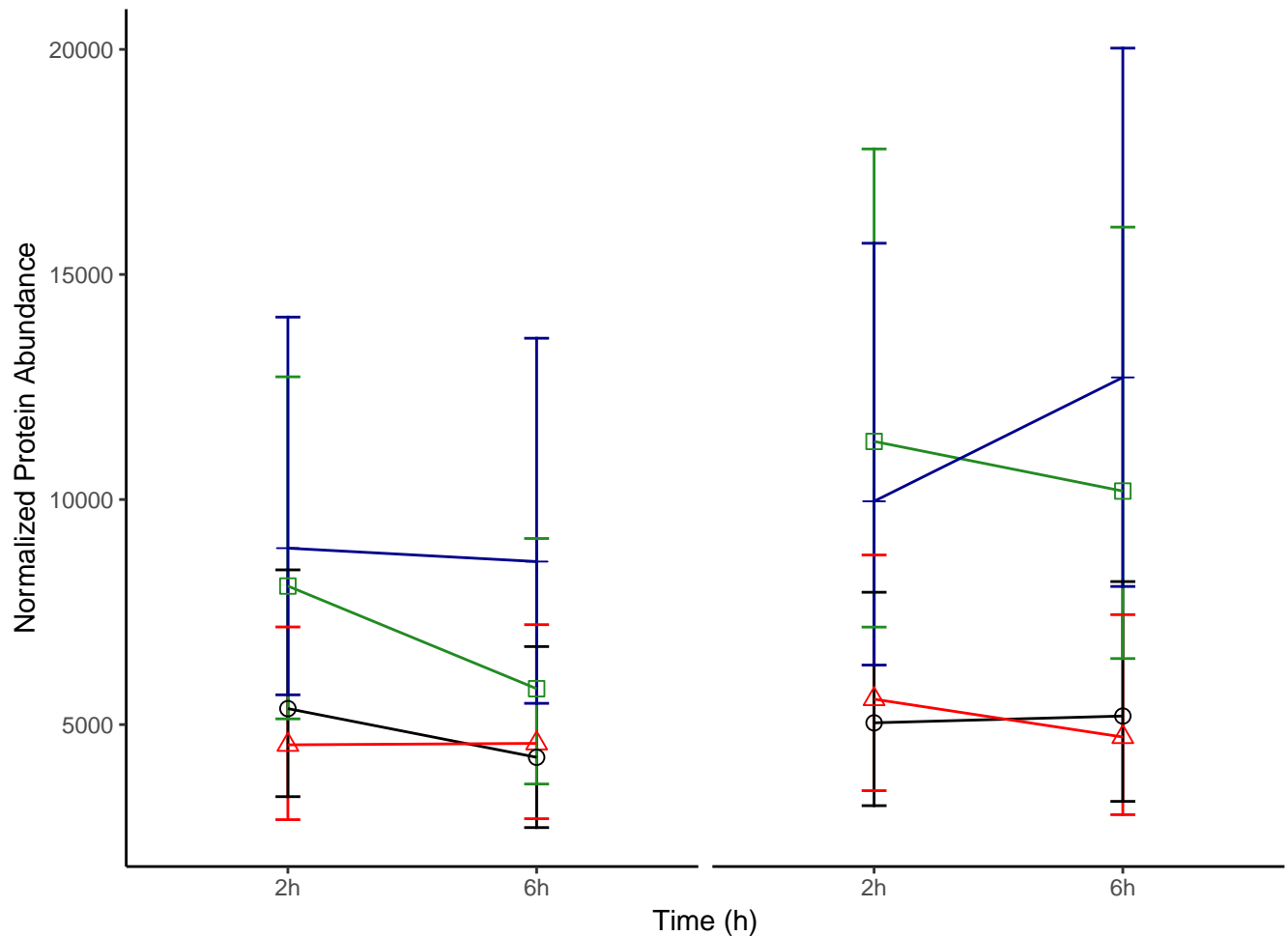


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# TDCB\_STAAM

TSB

TSB-dex S-416



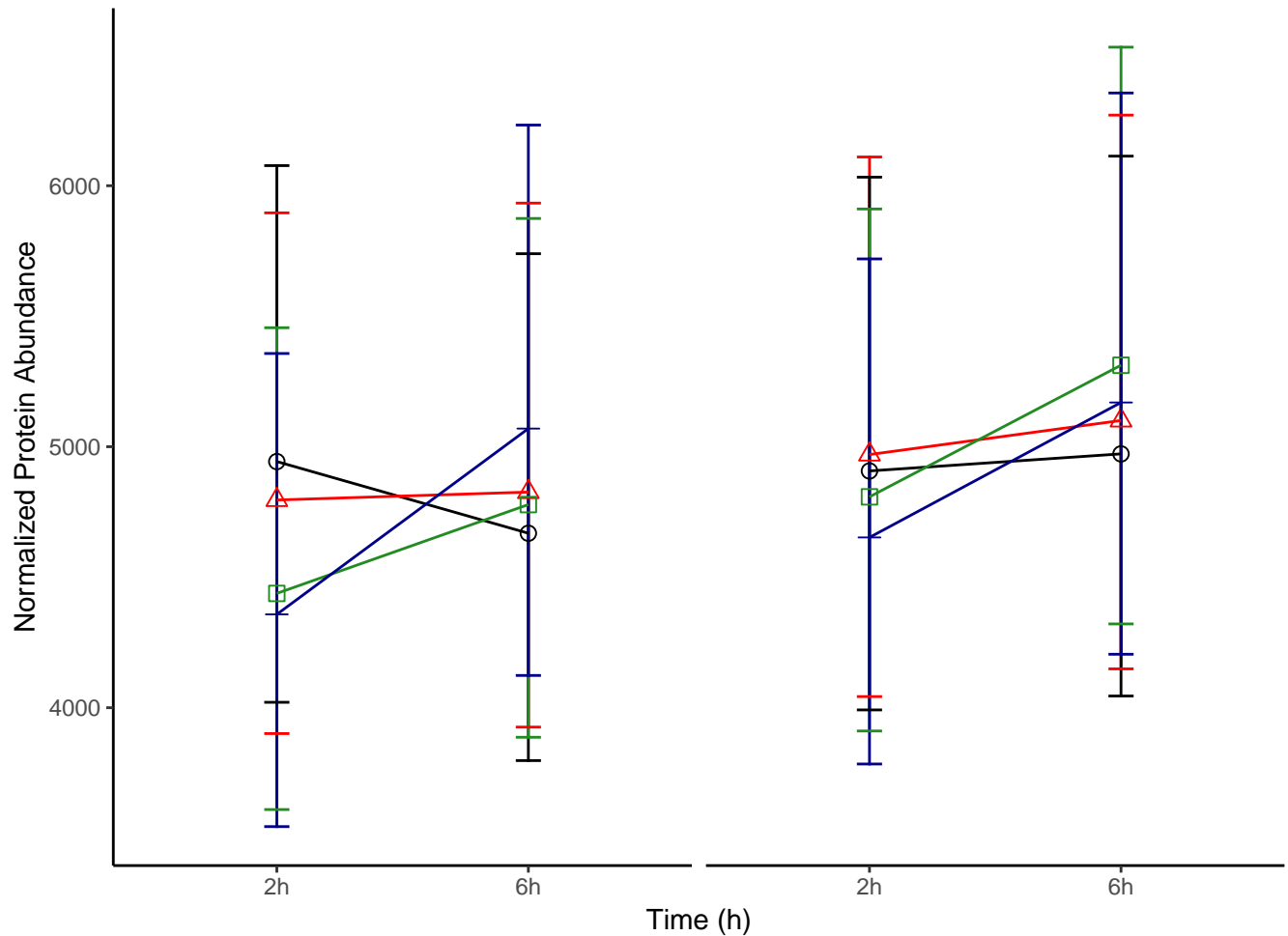
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# TELL\_STAAM

TSB

TSB-dex S-417

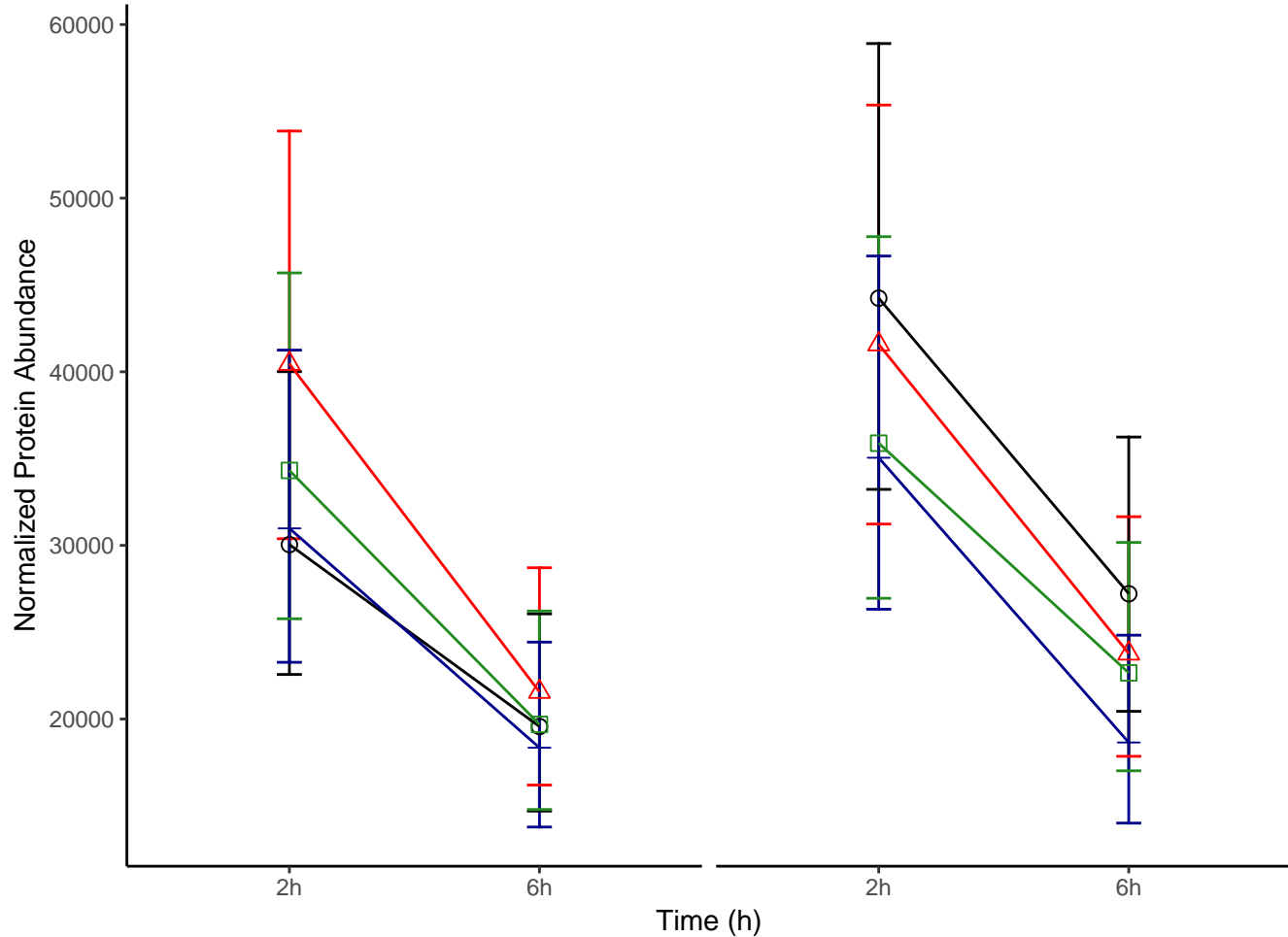


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# THID\_STAAM

TSB

TSB-dex S-418

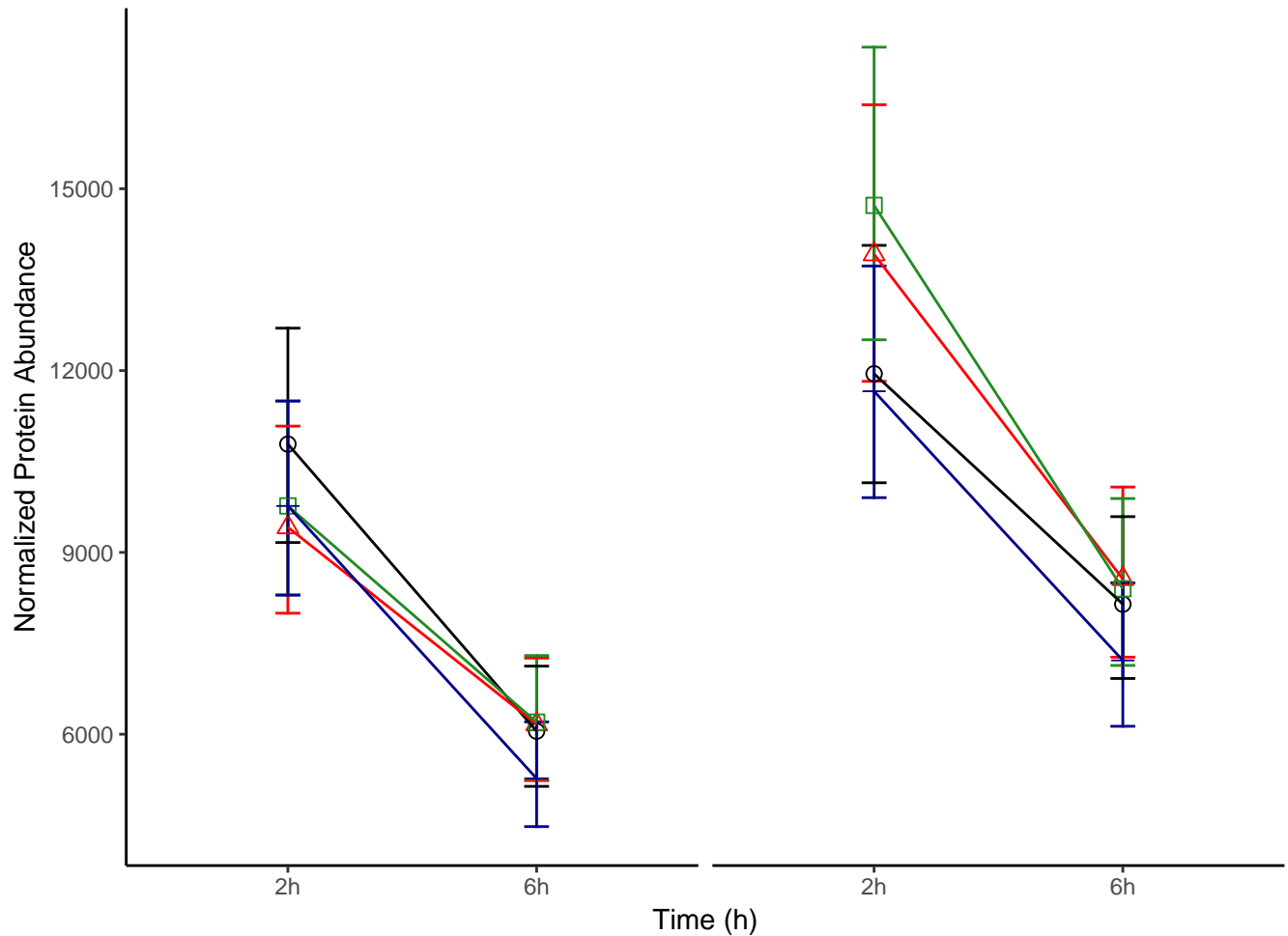


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# THIM\_STAAM

TSB

TSB-dex S-419

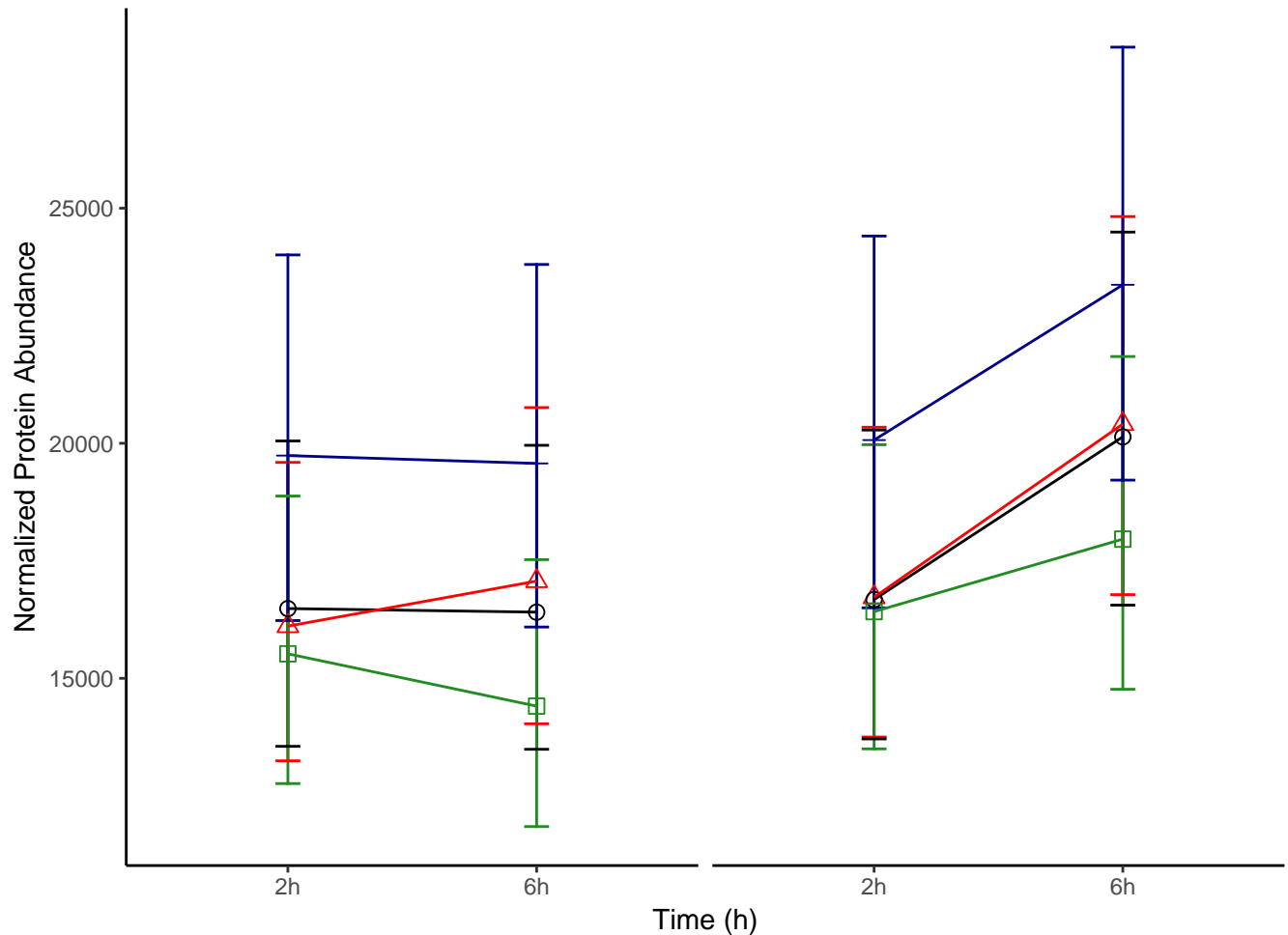


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# THIO\_STAAM

TSB

TSB-dex S-420

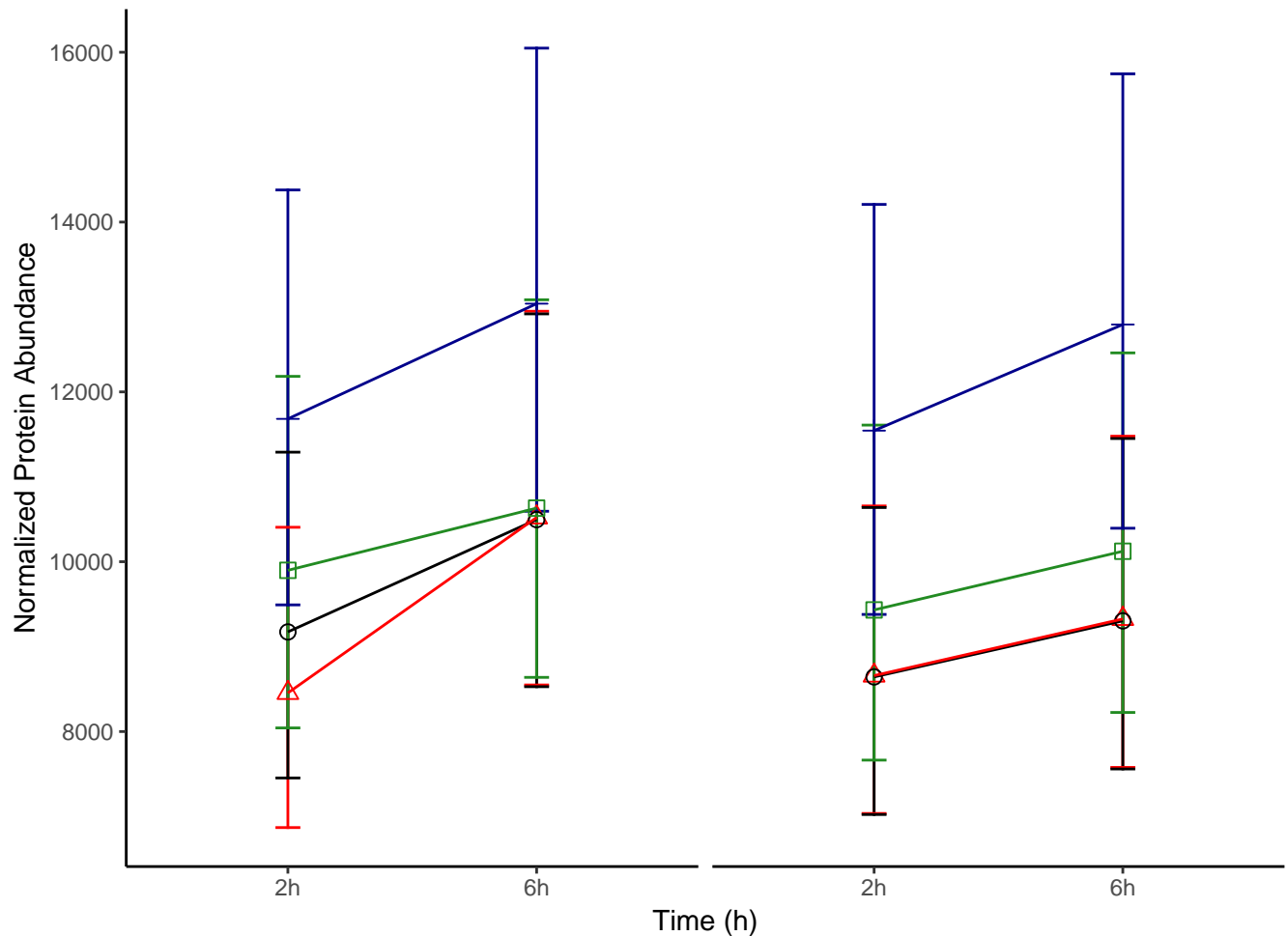


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# THLA\_STAAM

TSB

TSB-dex S-421

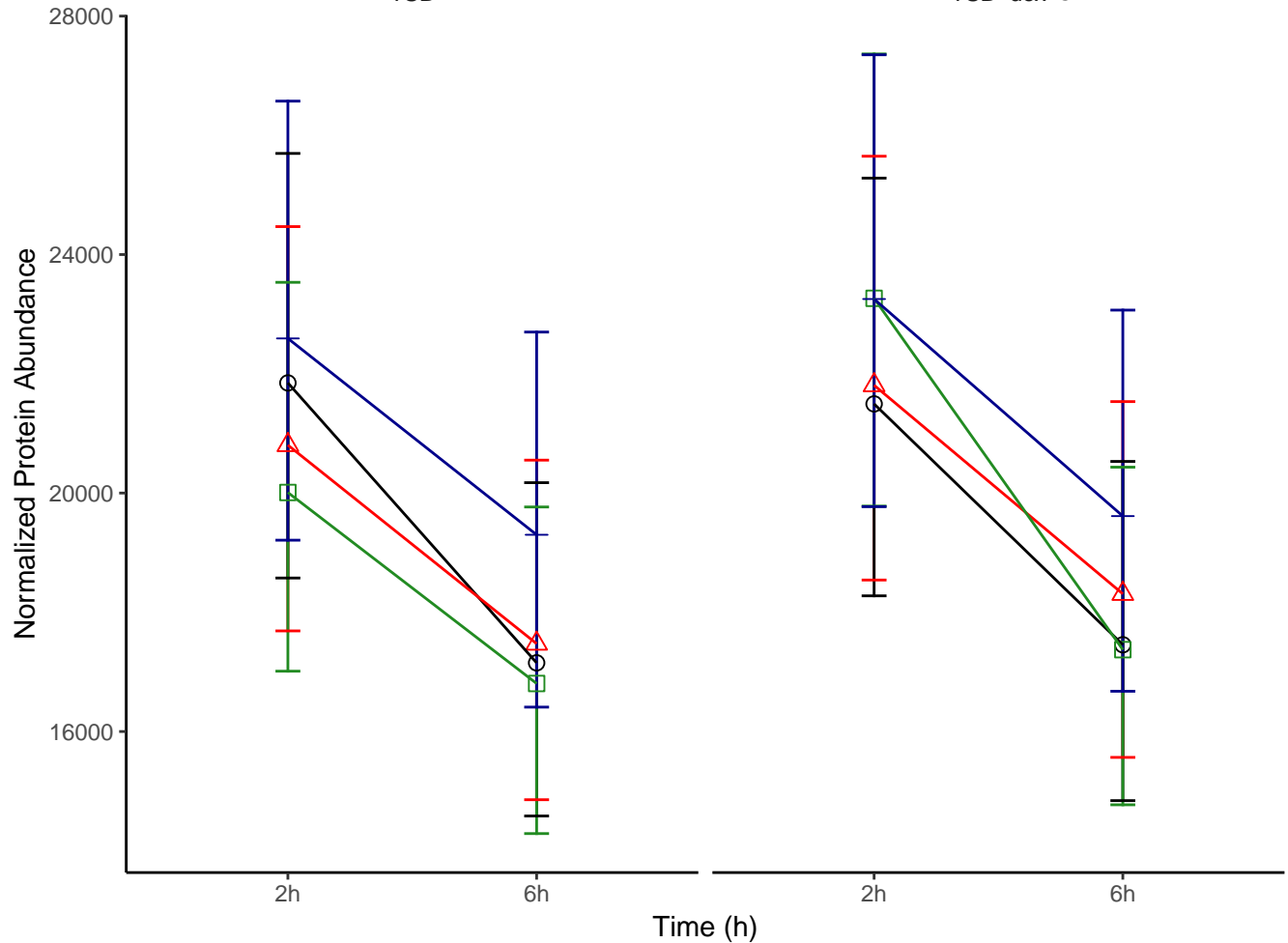


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TIG\_STAAM

TSB

TSB-dex S-422

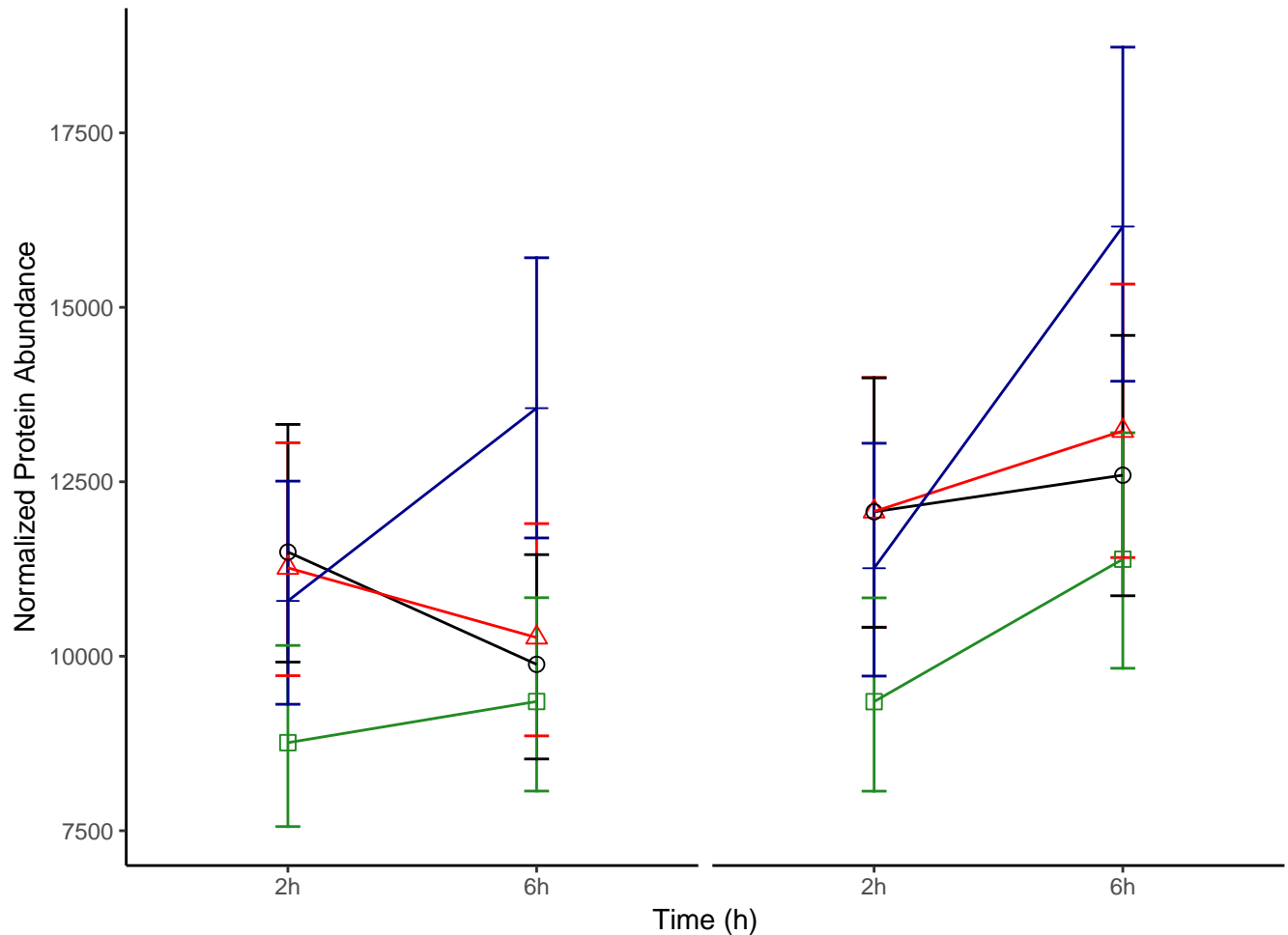


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## TKT\_STAAM

TSB

TSB-dex S-423

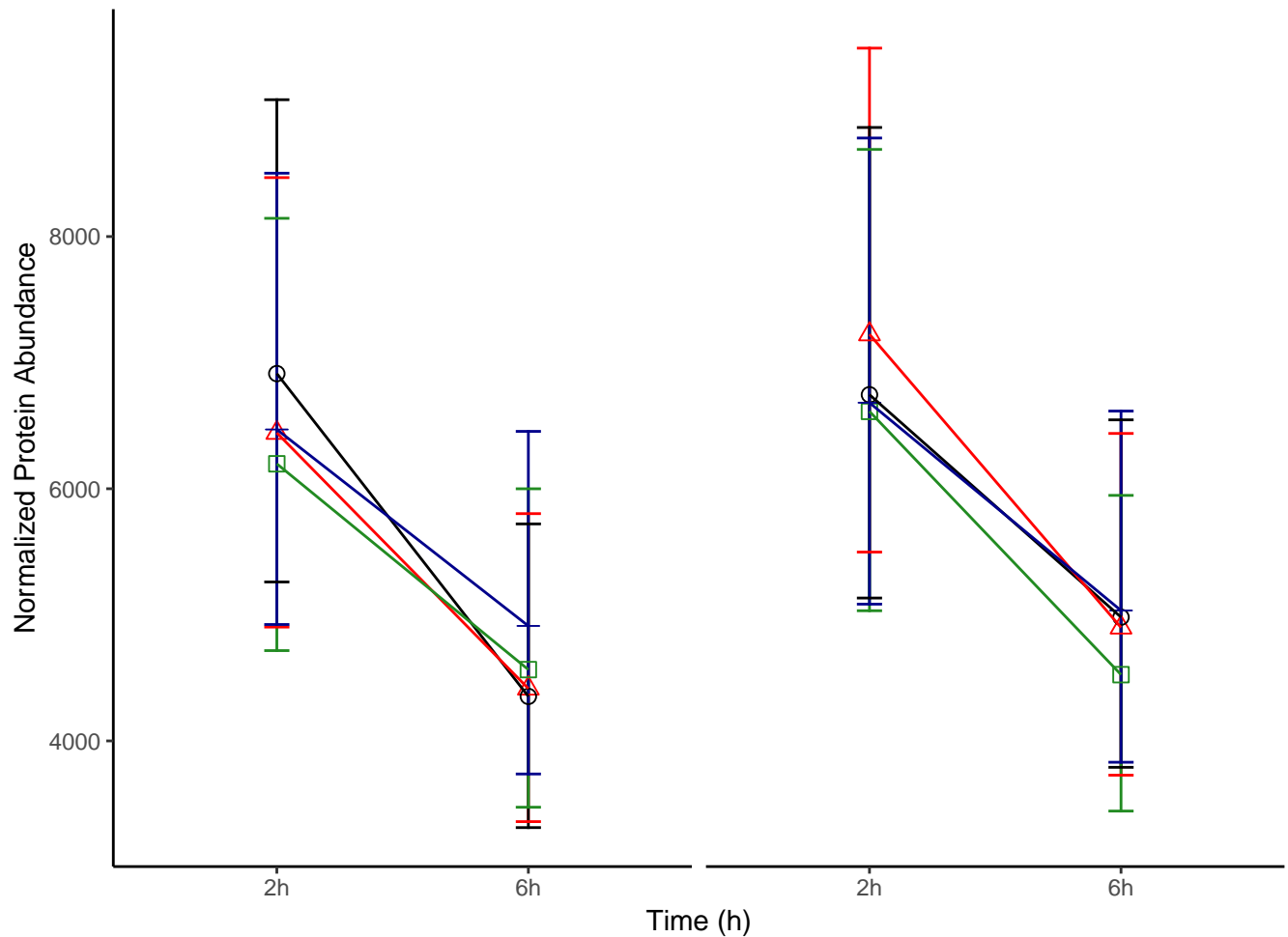


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TOP1\_STAAM

TSB

TSB-dex S-424



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

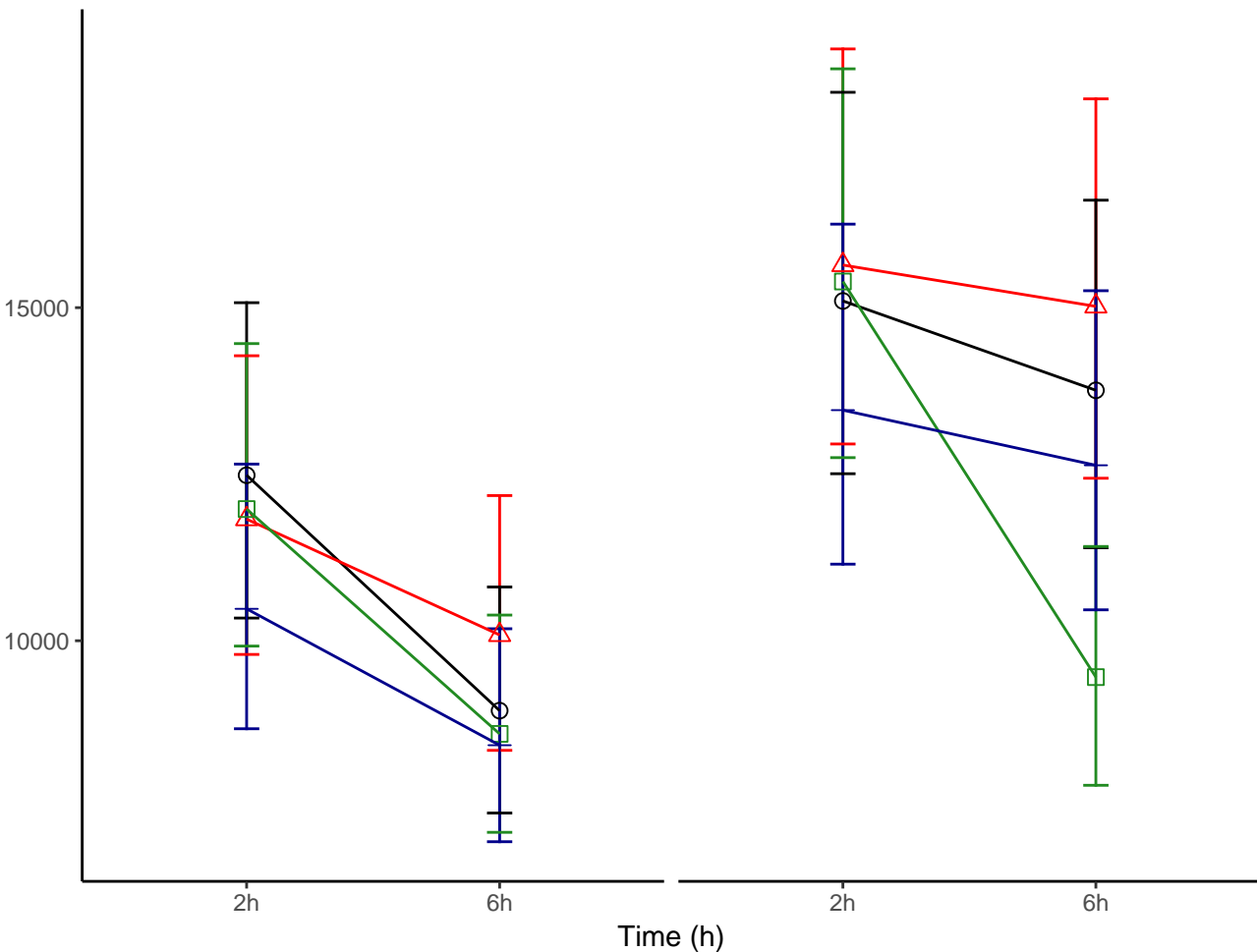


# TOP3\_STAAM

TSB

TSB-dex S-425

Normalized Protein Abundance

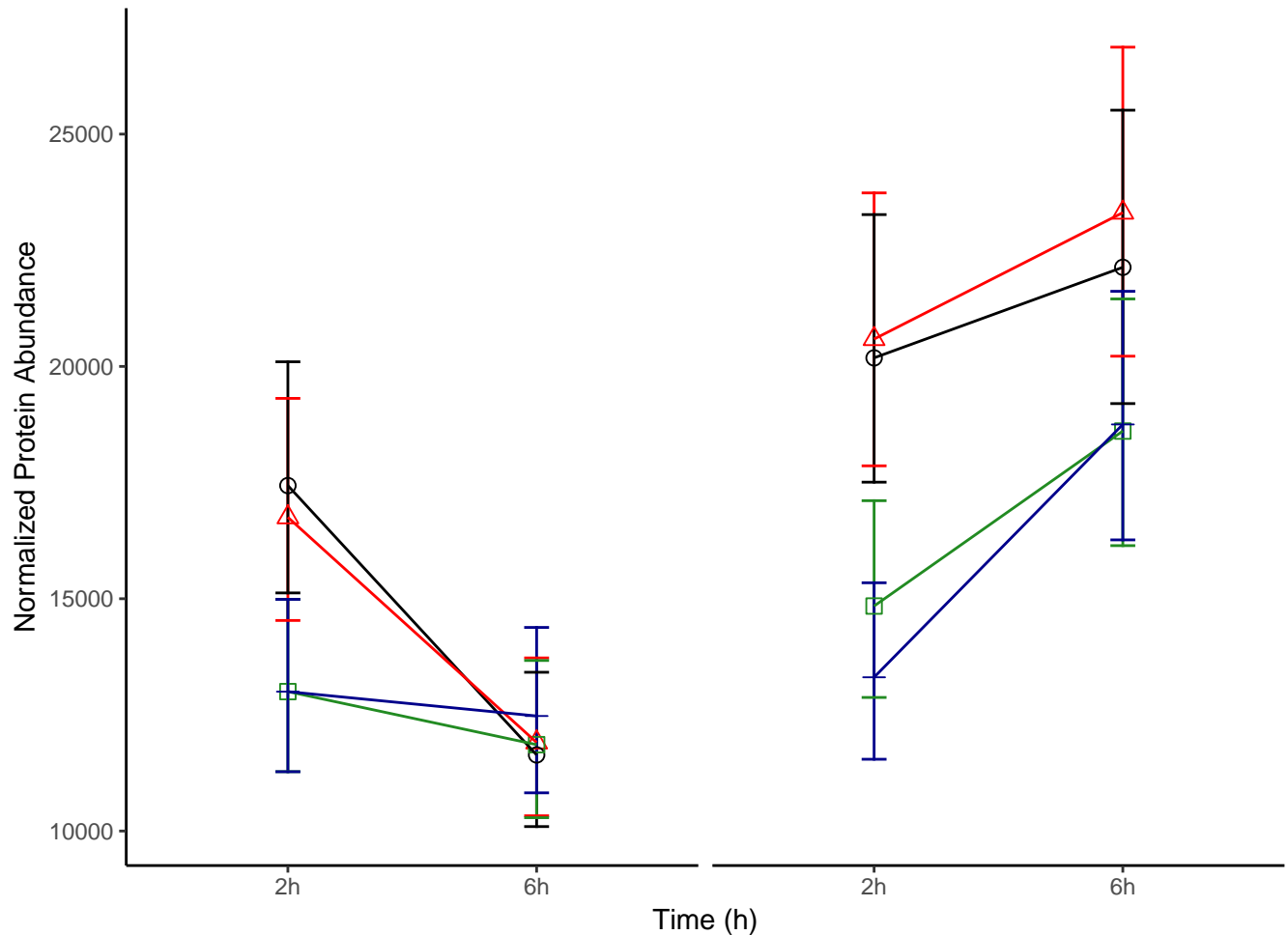


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TPIS\_STAAM

TSB

TSB-dex S-426

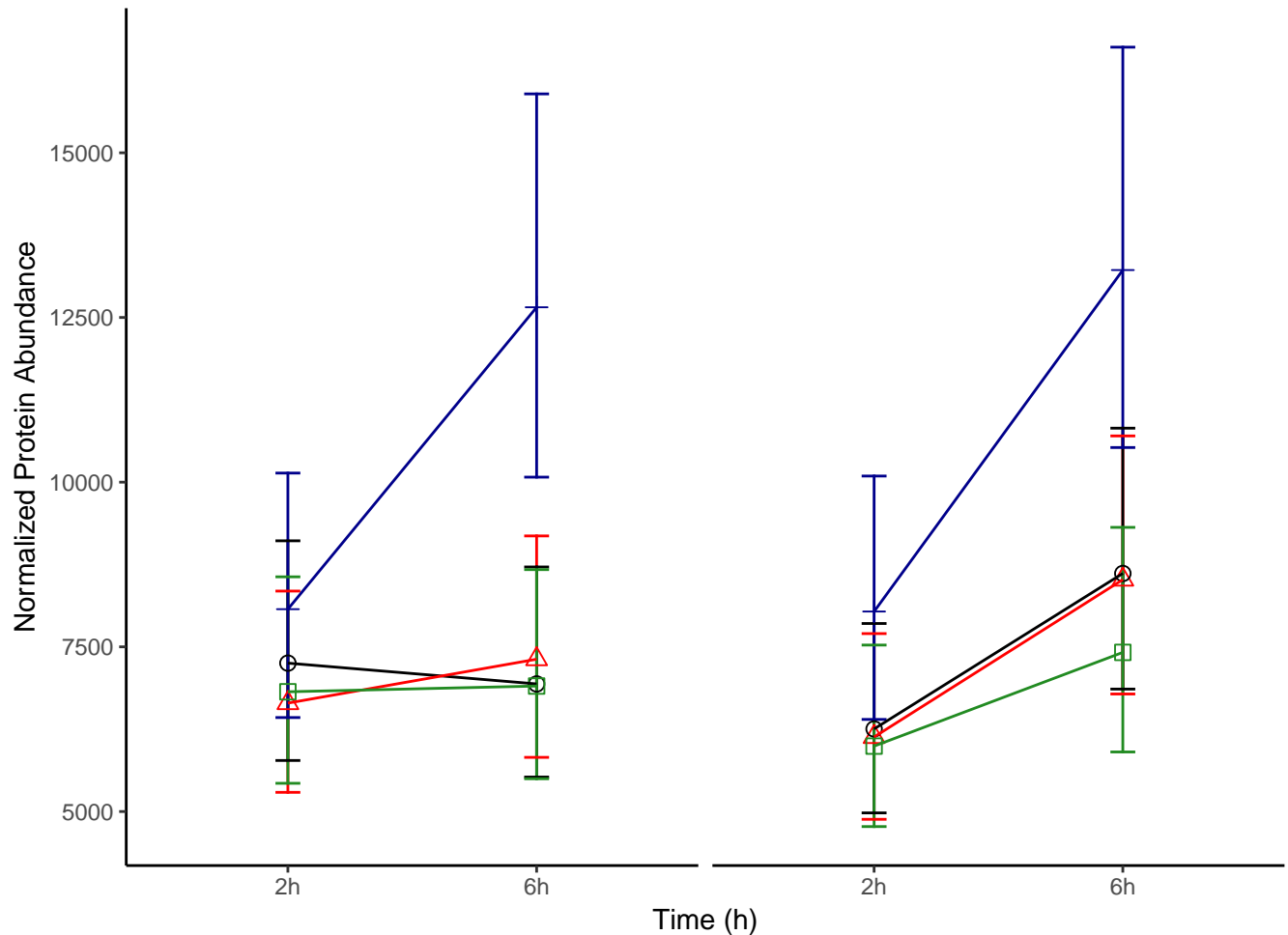


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TPX\_STAAM

TSB

TSB-dex S-427

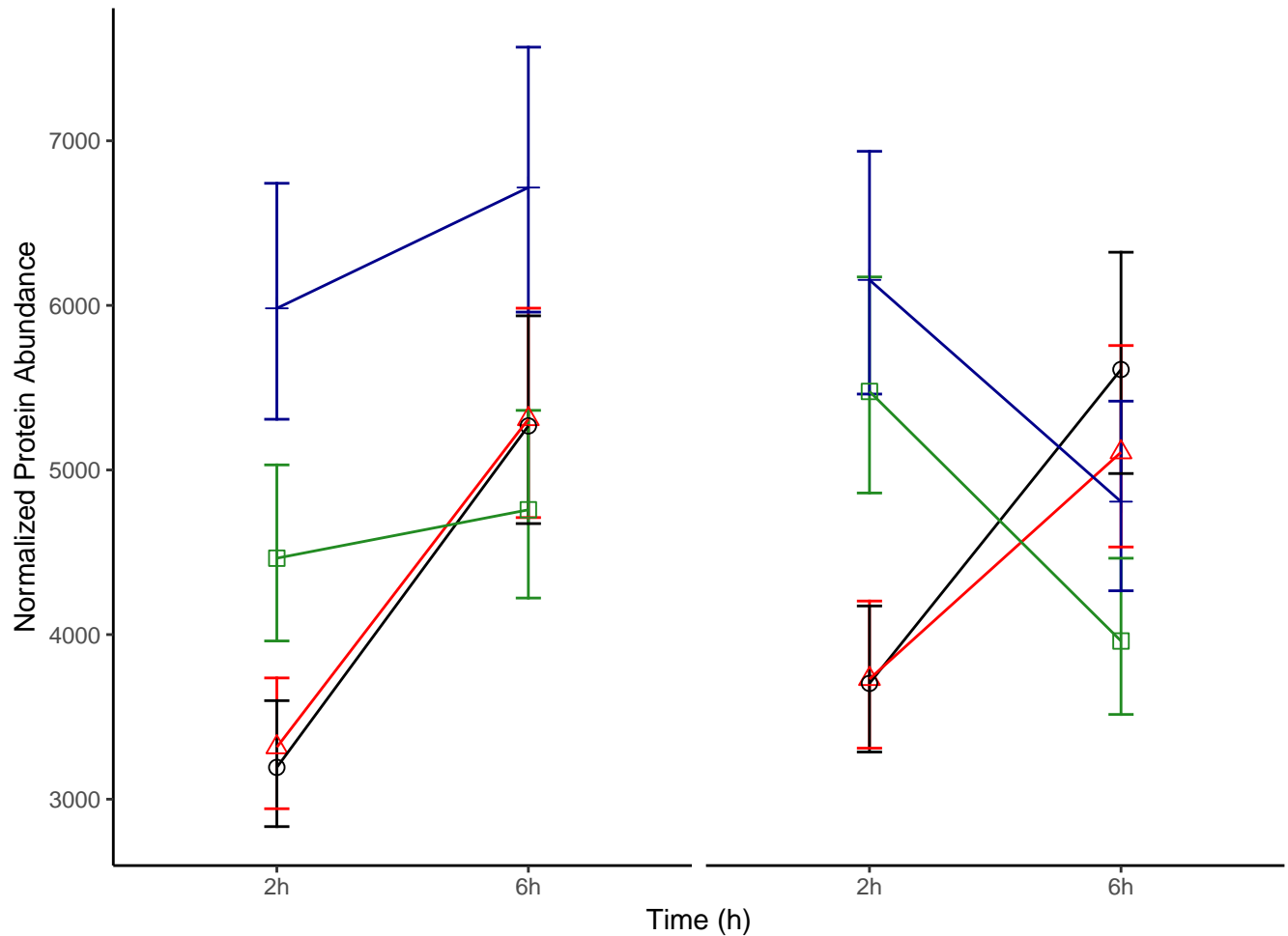


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRAC\_STAAM

TSB

TSB-dex S-428

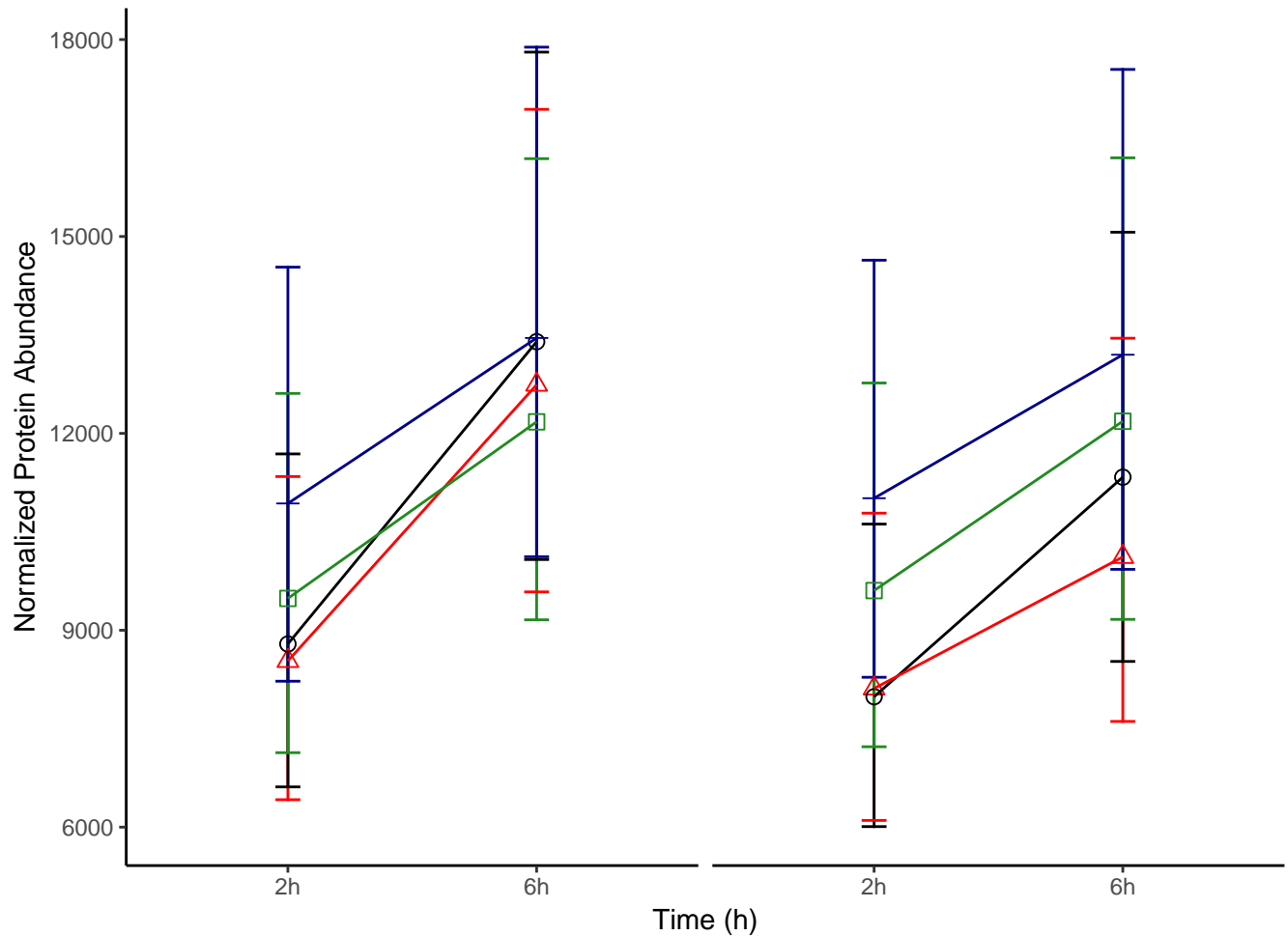


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRAP\_STAAM

TSB

TSB-dex S-429

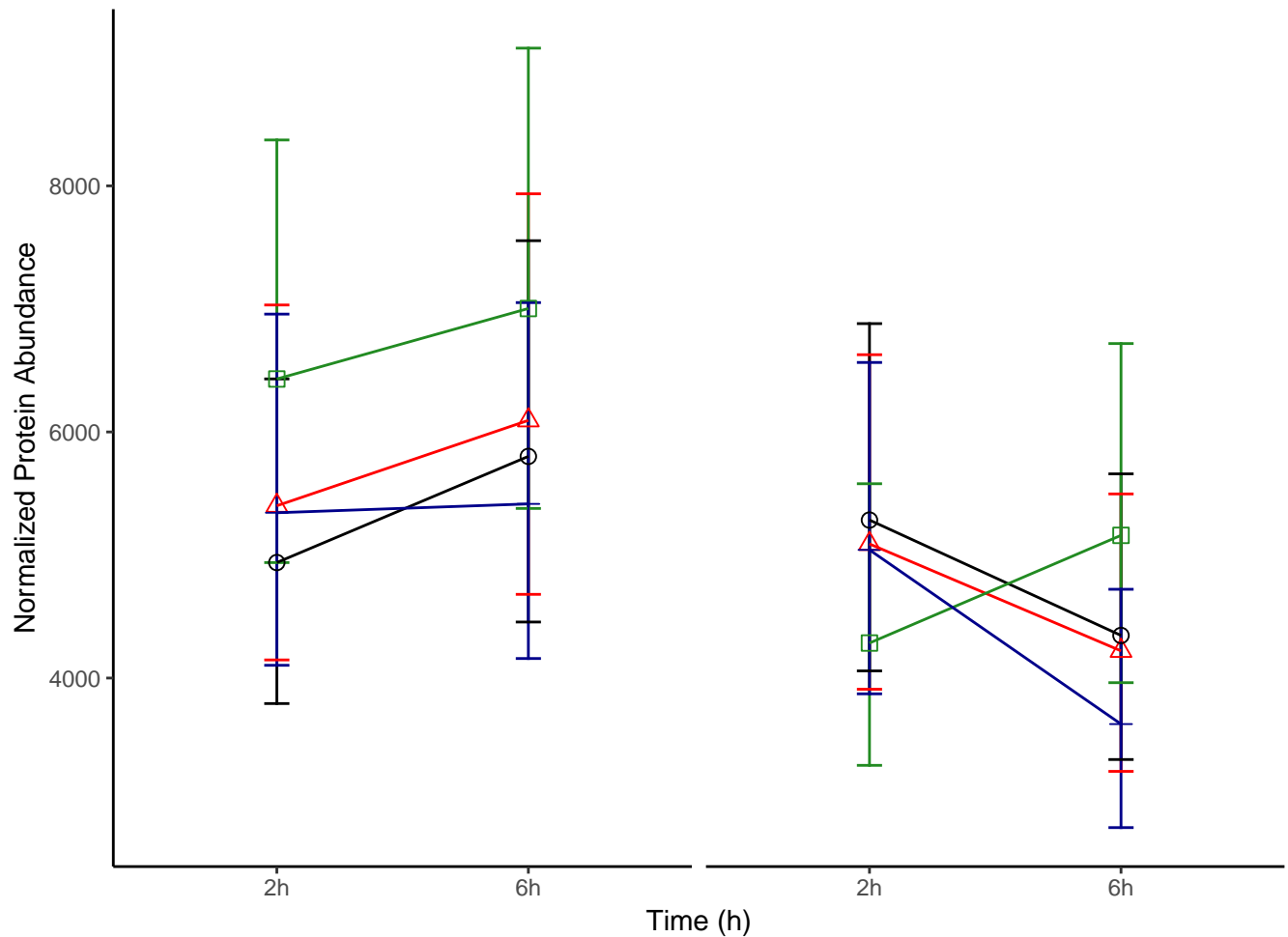


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TRMB\_STAAM

TSB

TSB-dex S-430

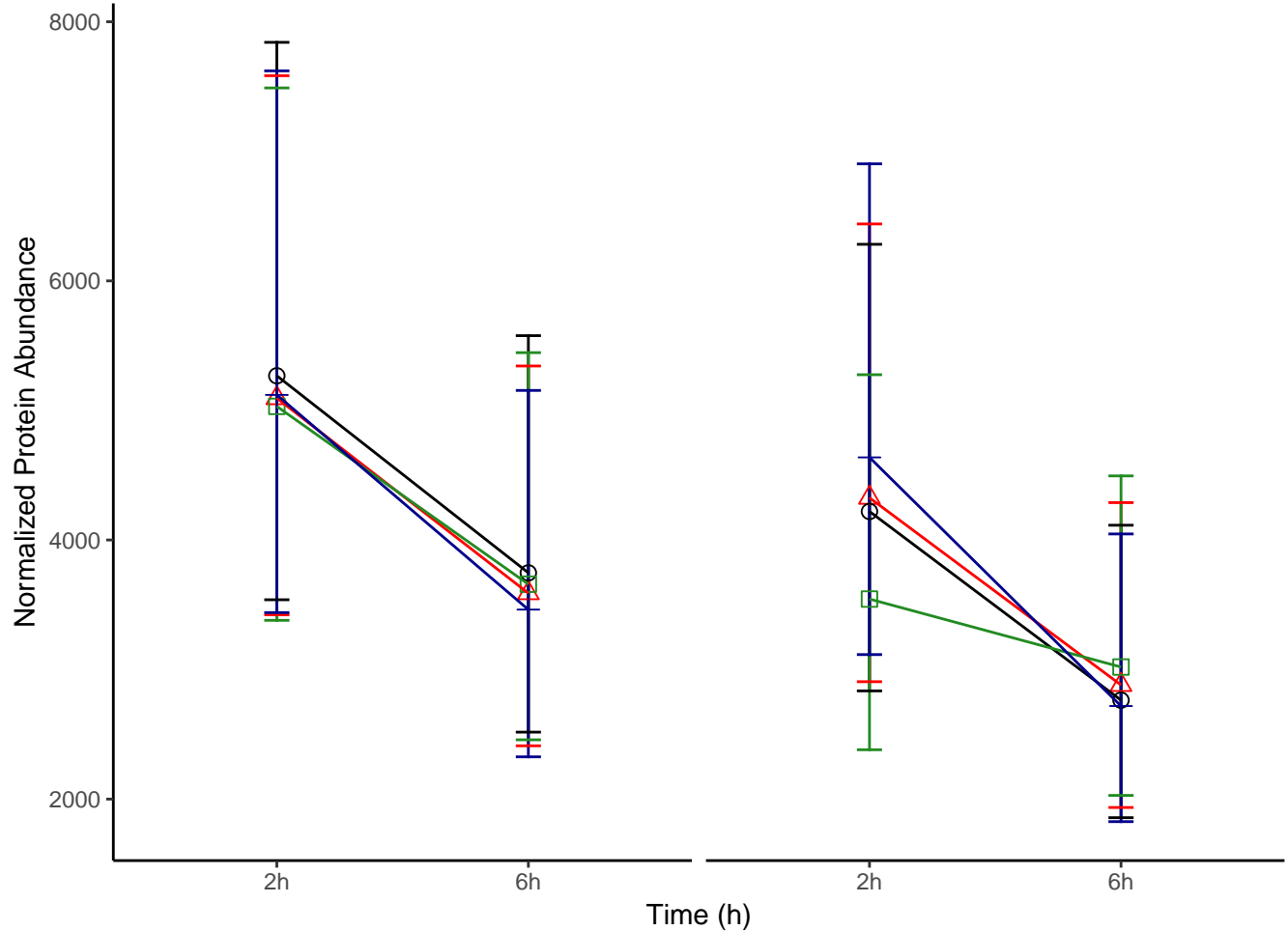


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRMFO\_STAAM

TSB

TSB-dex S-431

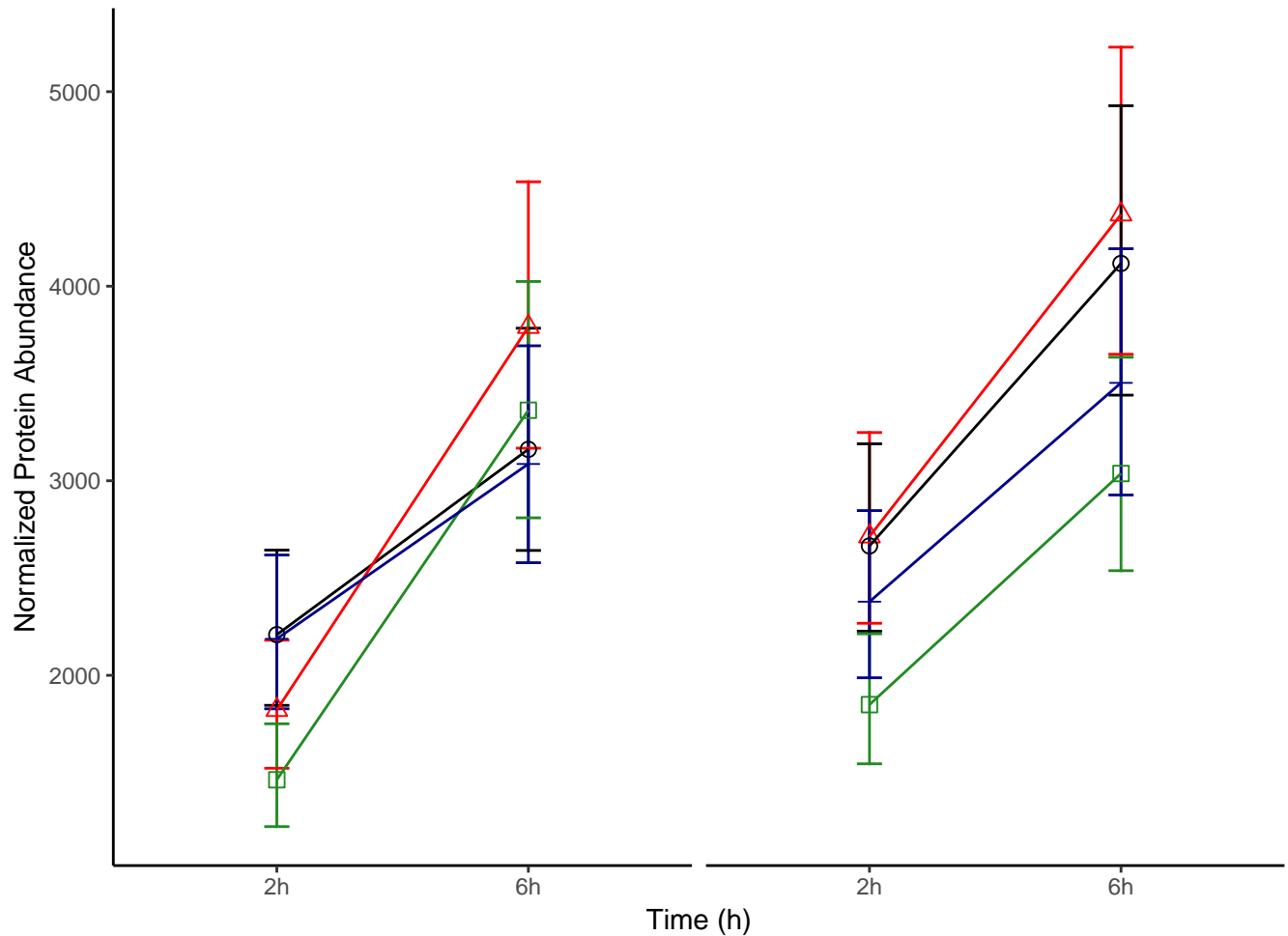


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TRMHL\_STAAM

TSB

TSB-dex S-432



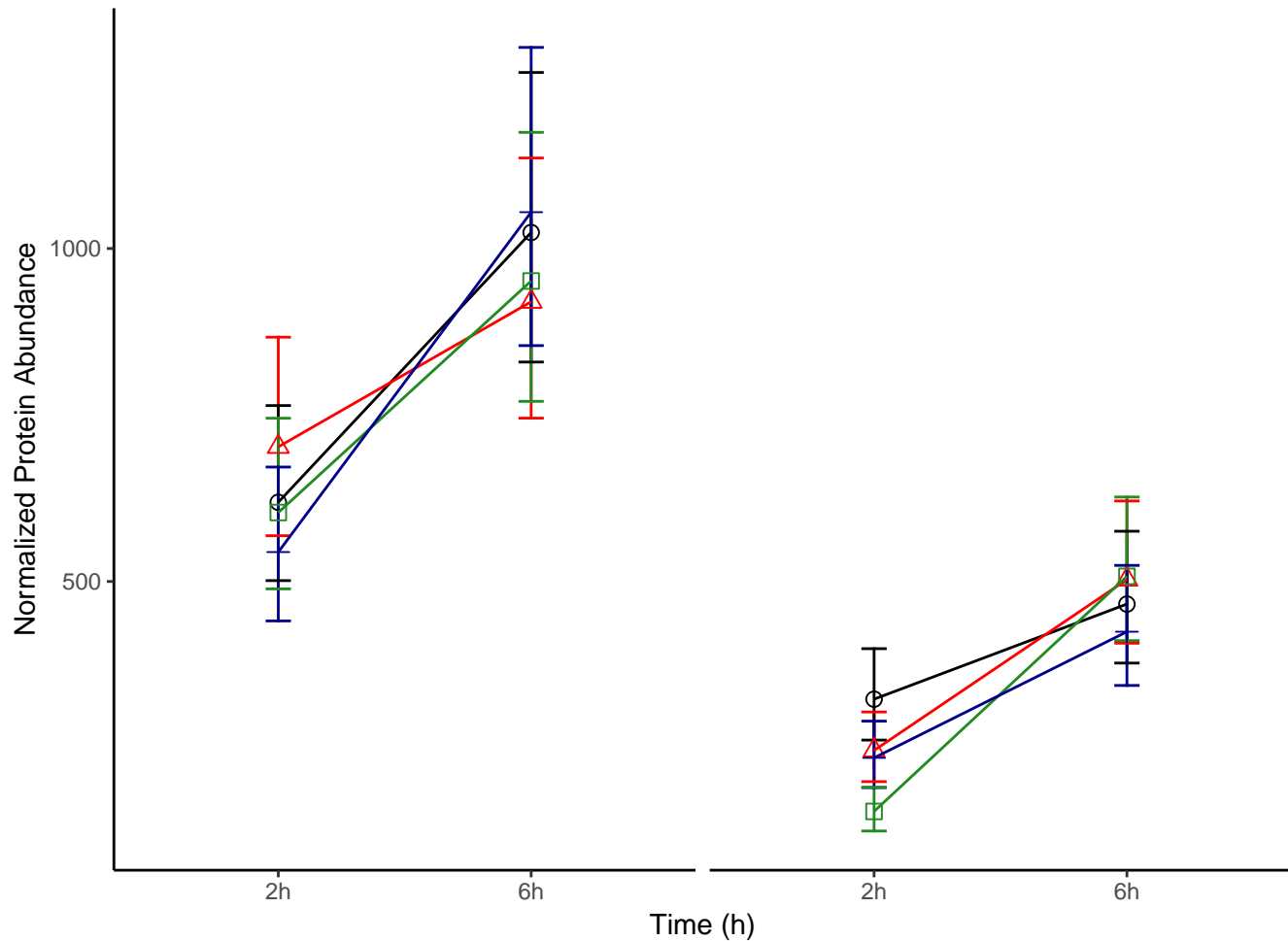
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## TRPA\_STAAM

TSB

TSB-dex S-433

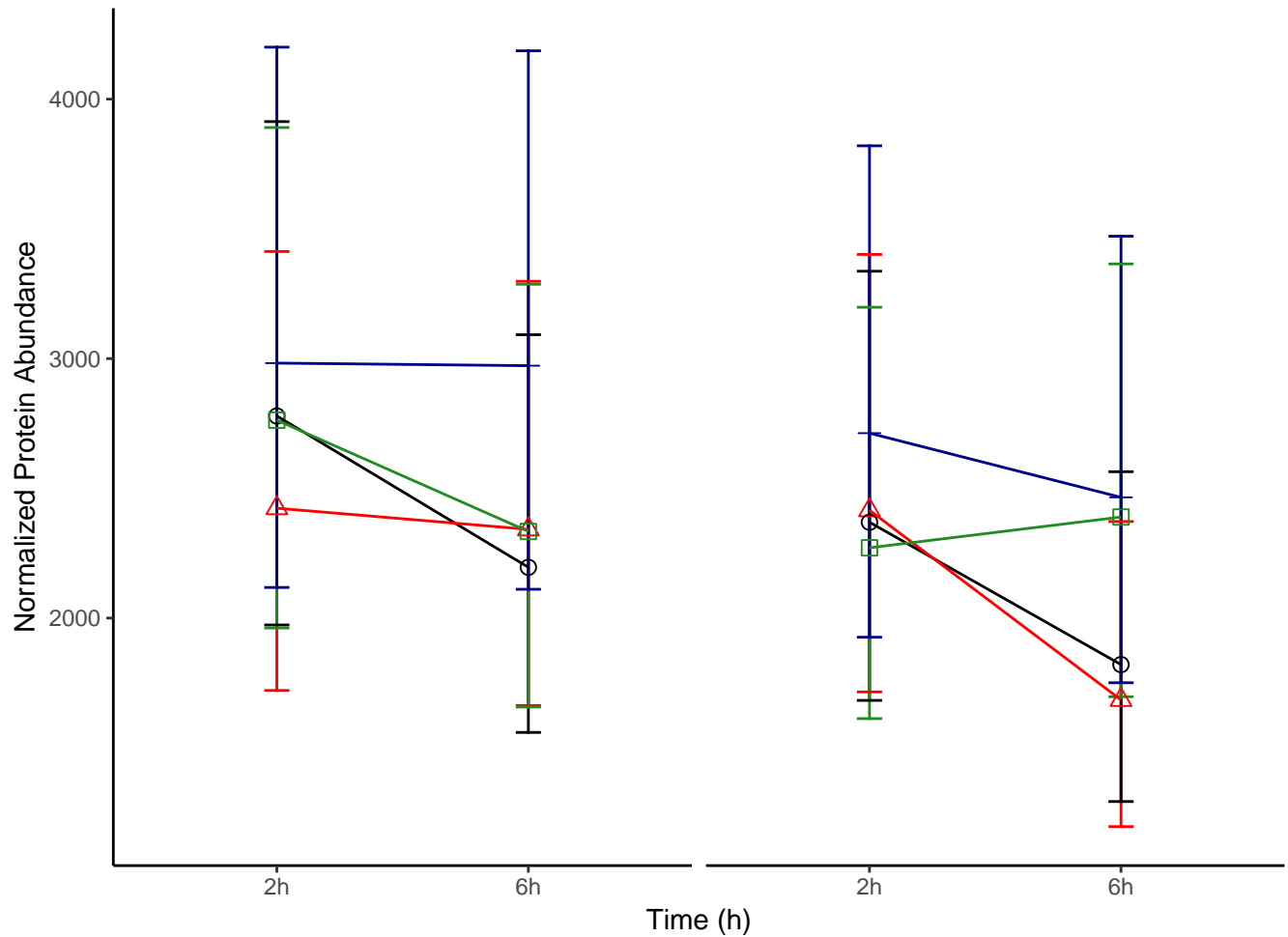


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRPF\_STAAM

TSB

TSB-dex S-434

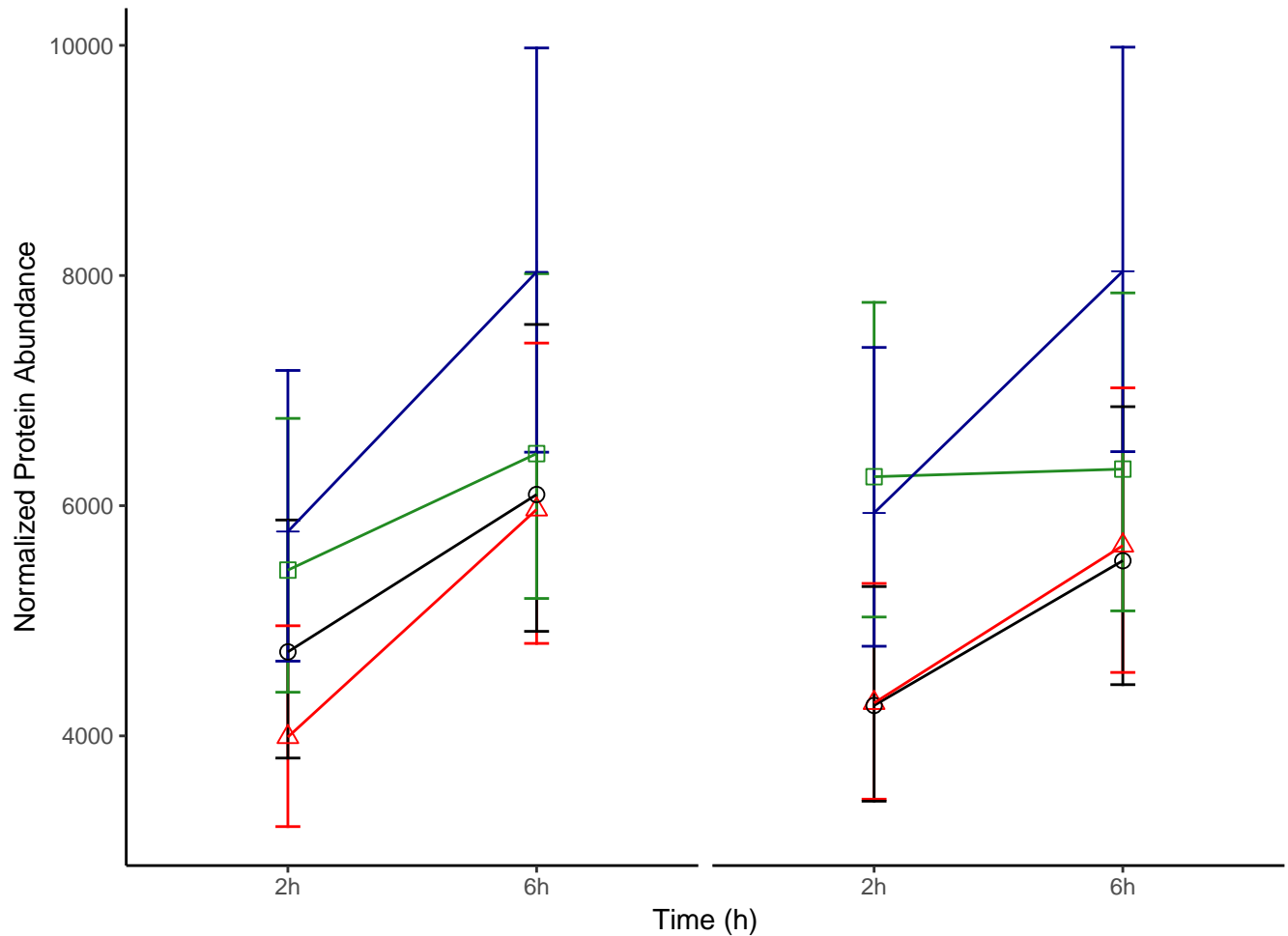


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRUB\_STAAM

TSB

TSB-dex S-435

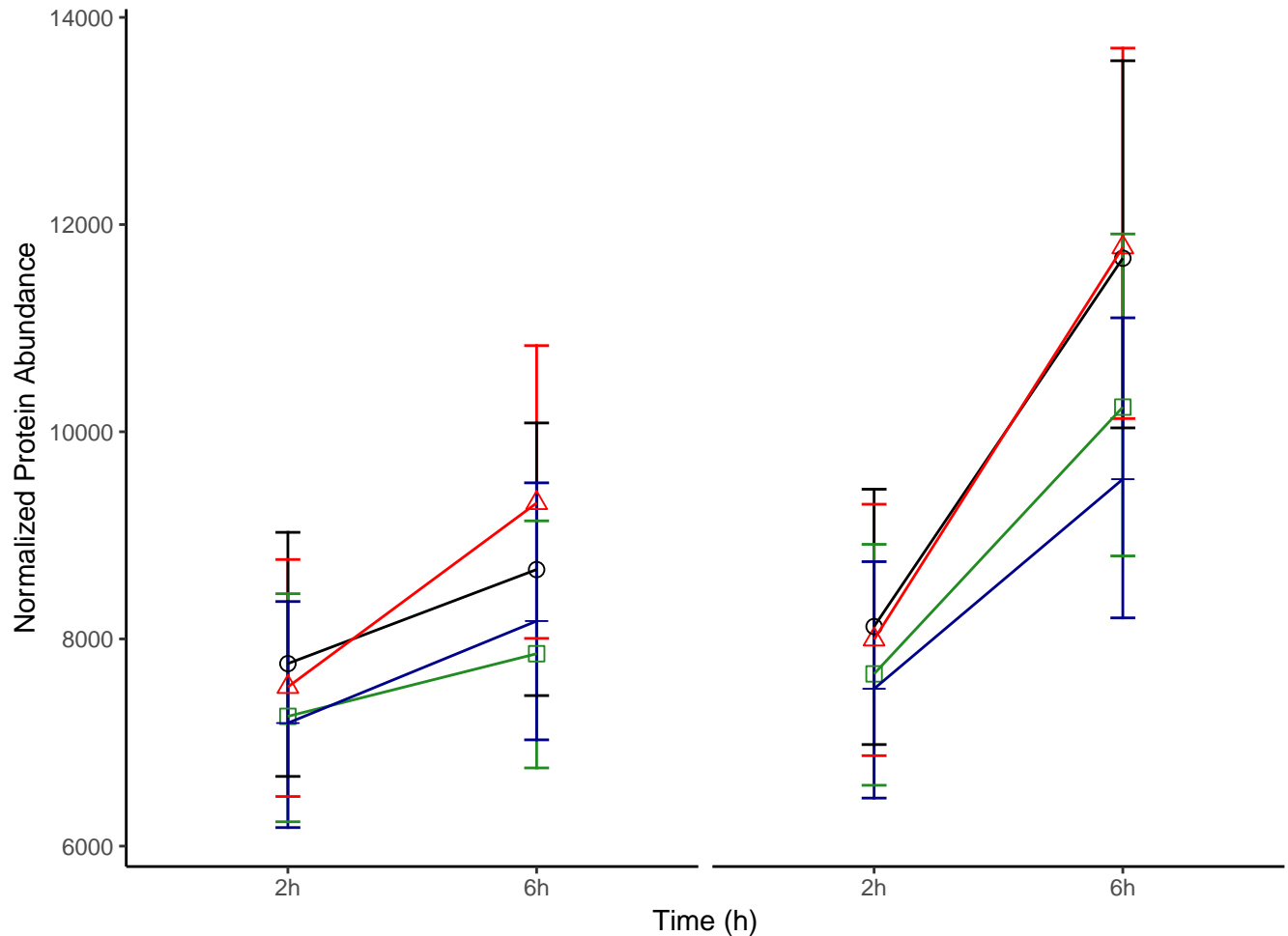


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRXB\_STAAM

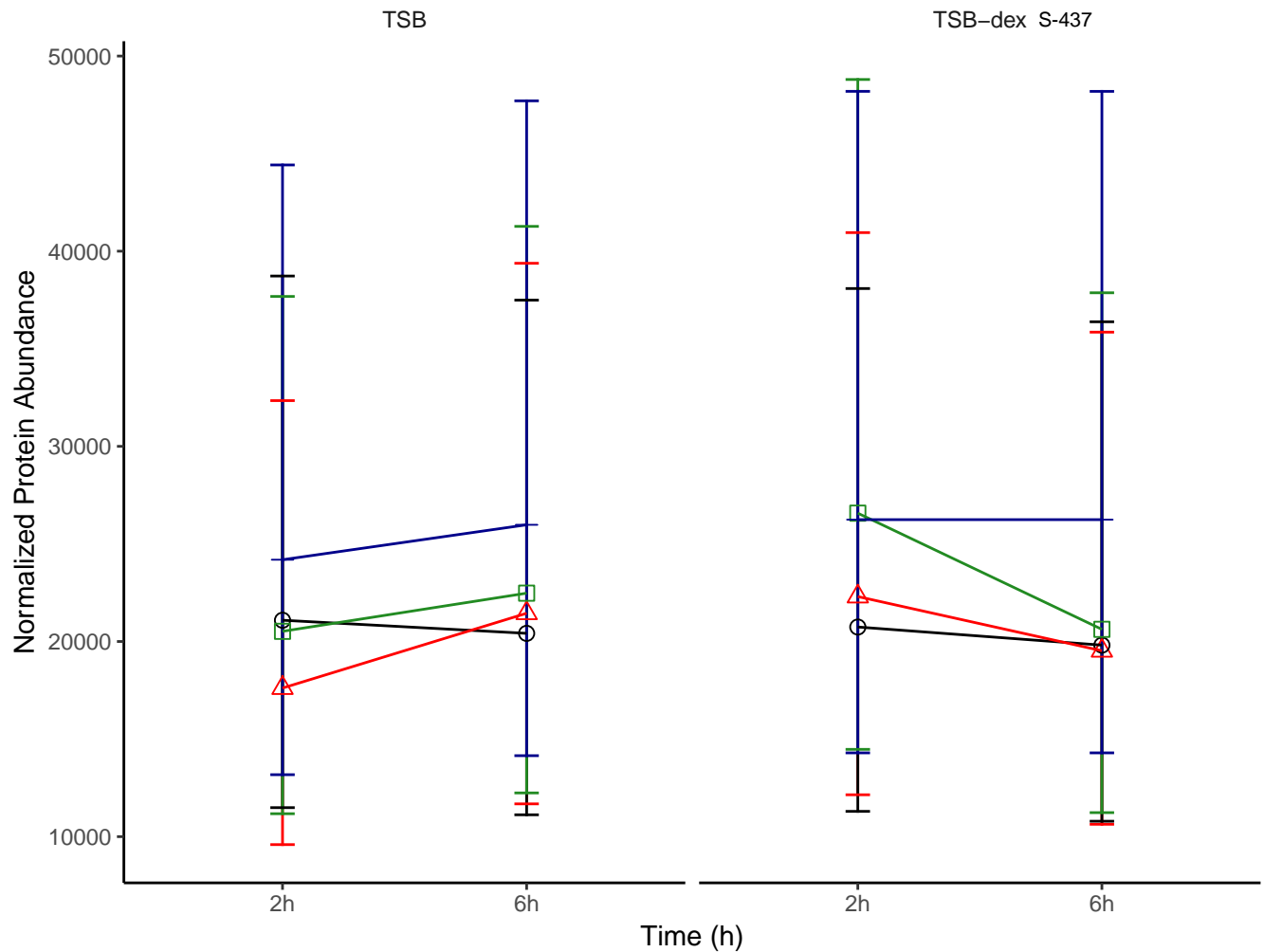
TSB

TSB-dex S-436



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TSAD\_STAAM

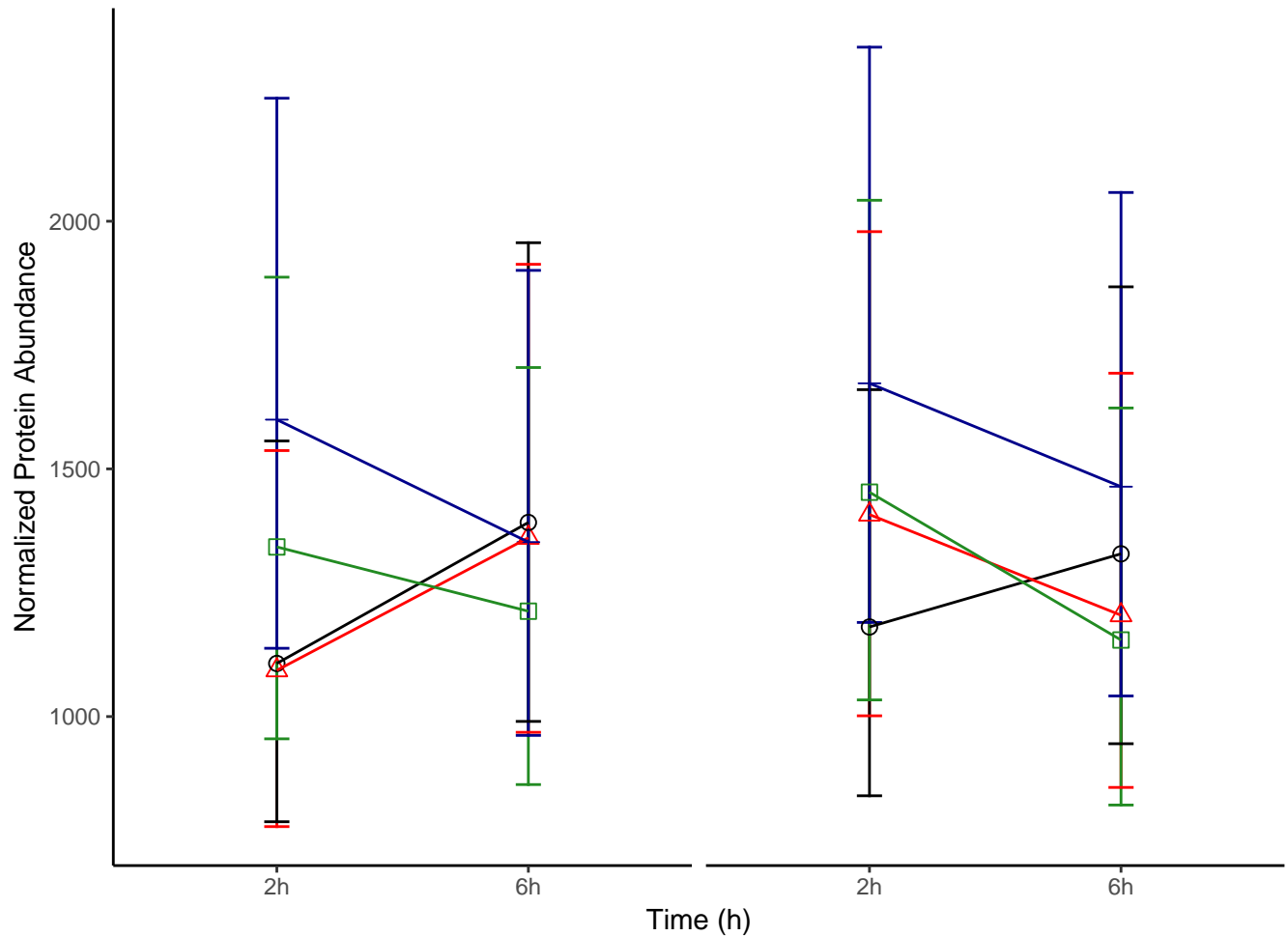


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TYRA\_STAAM

TSB

TSB-dex S-438

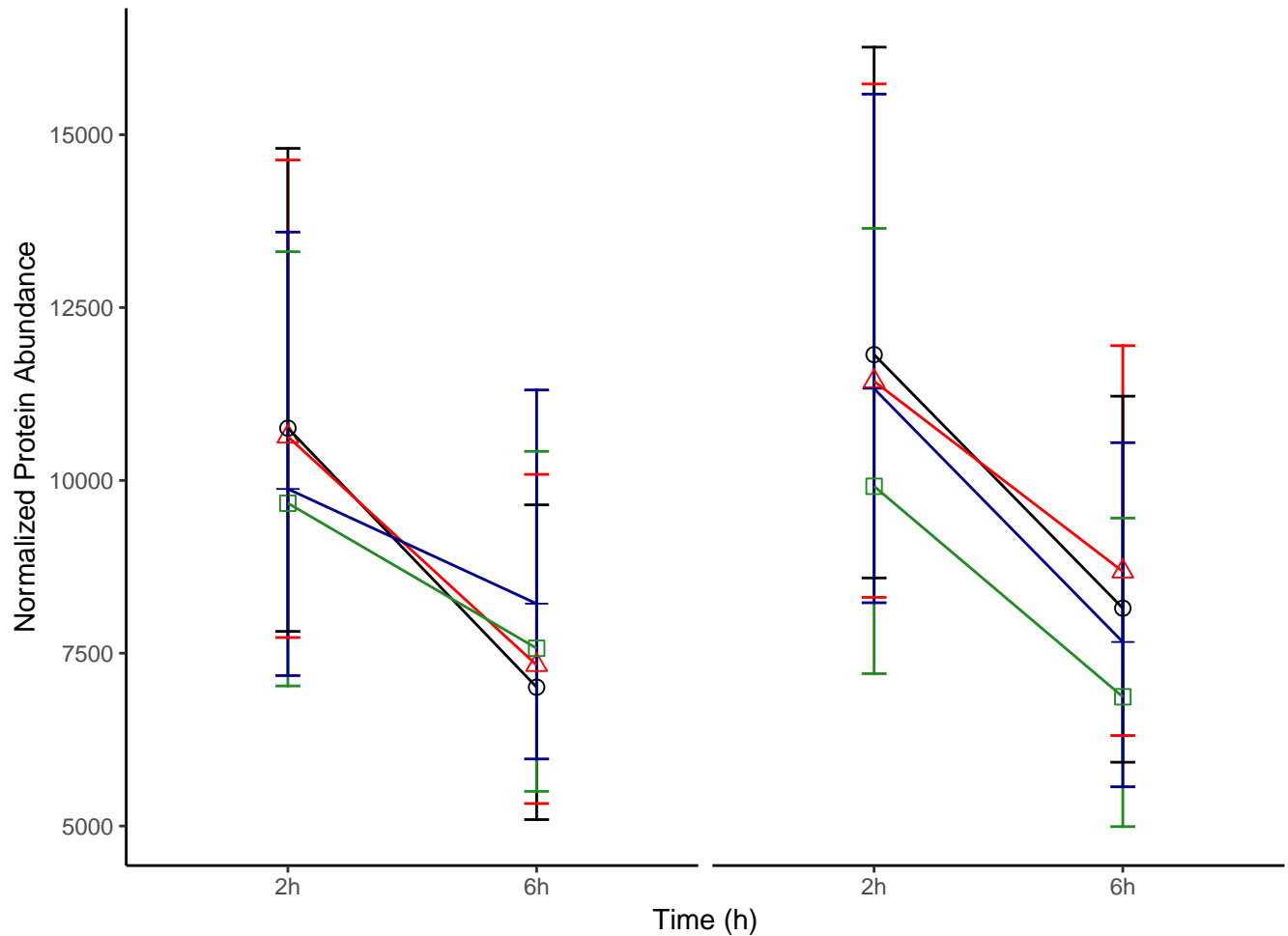


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TYSY\_STAAM

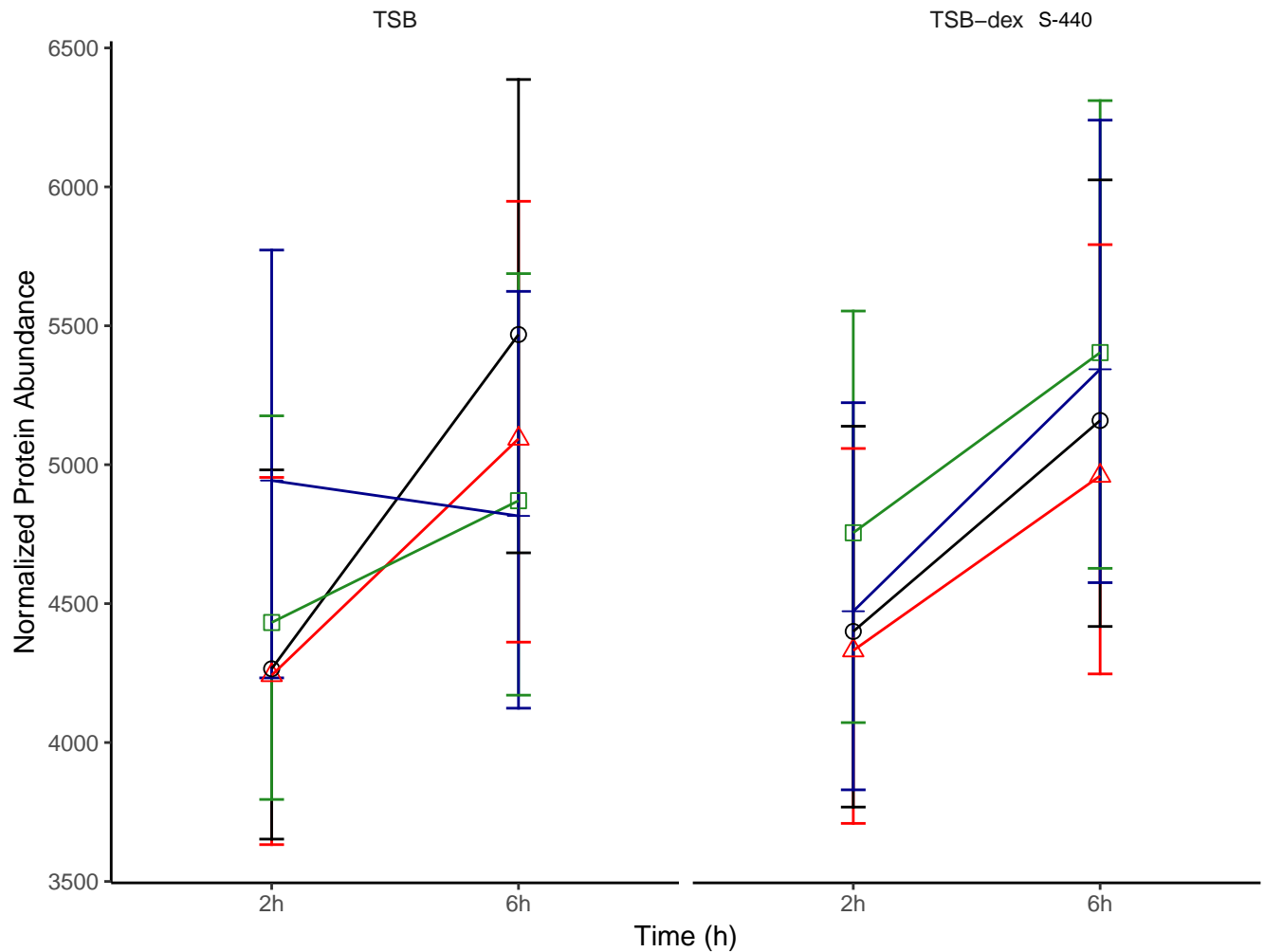
TSB

TSB-dex S-439



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# UNG\_STAAM



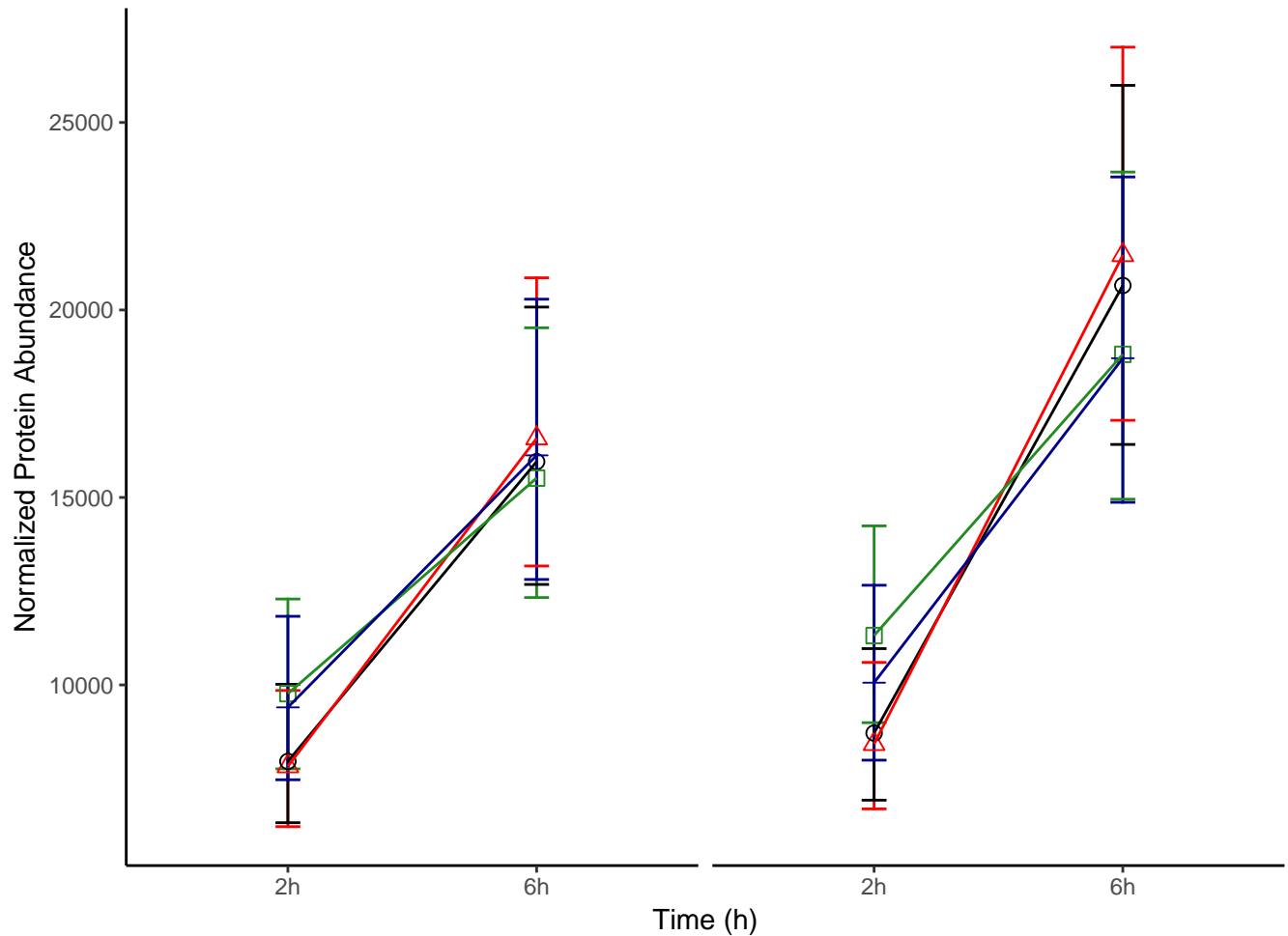
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# UP355\_STAAM

TSB

TSB-dex S-441

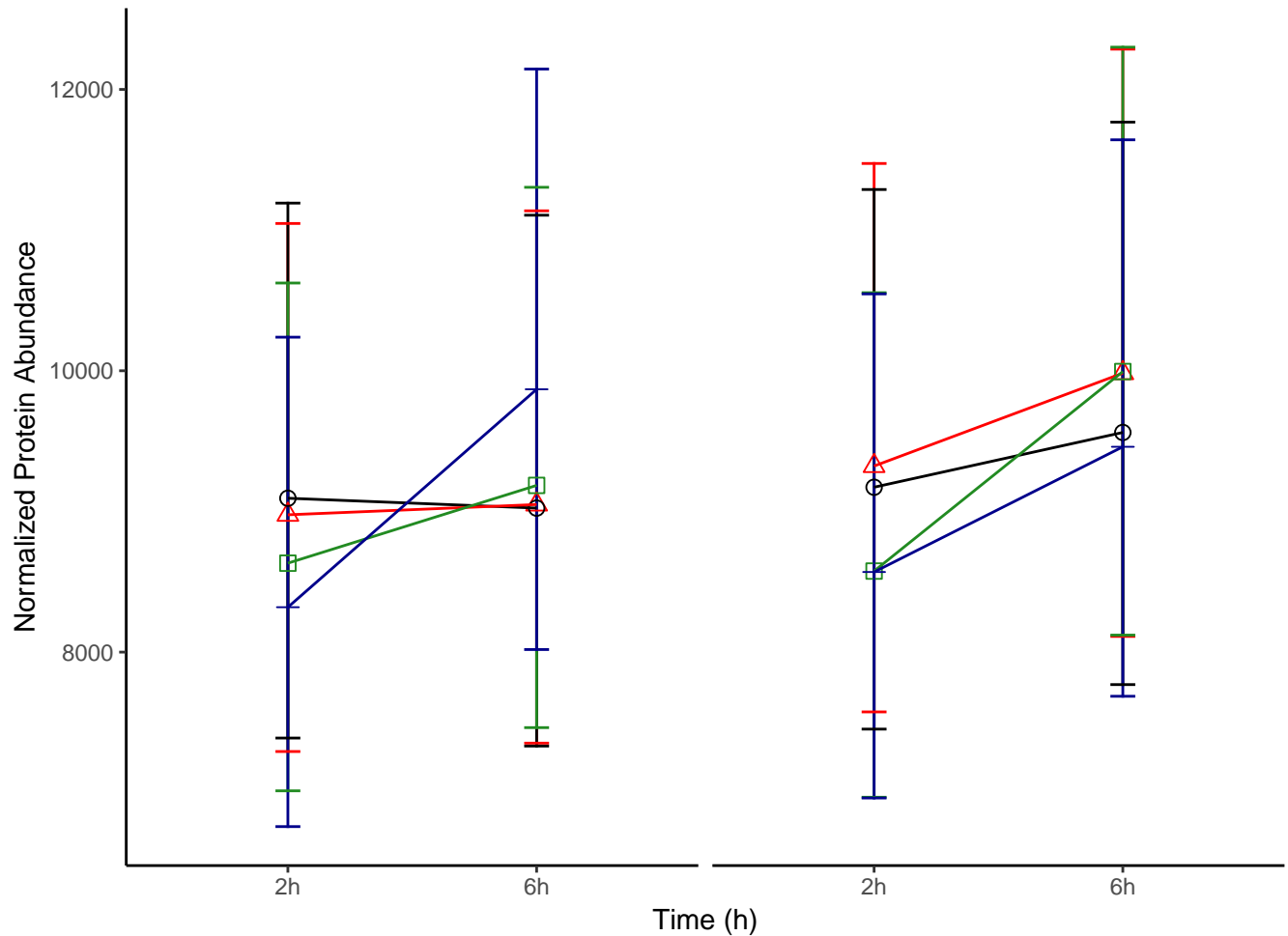


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# UPP\_STAAM

TSB

TSB-dex S-442

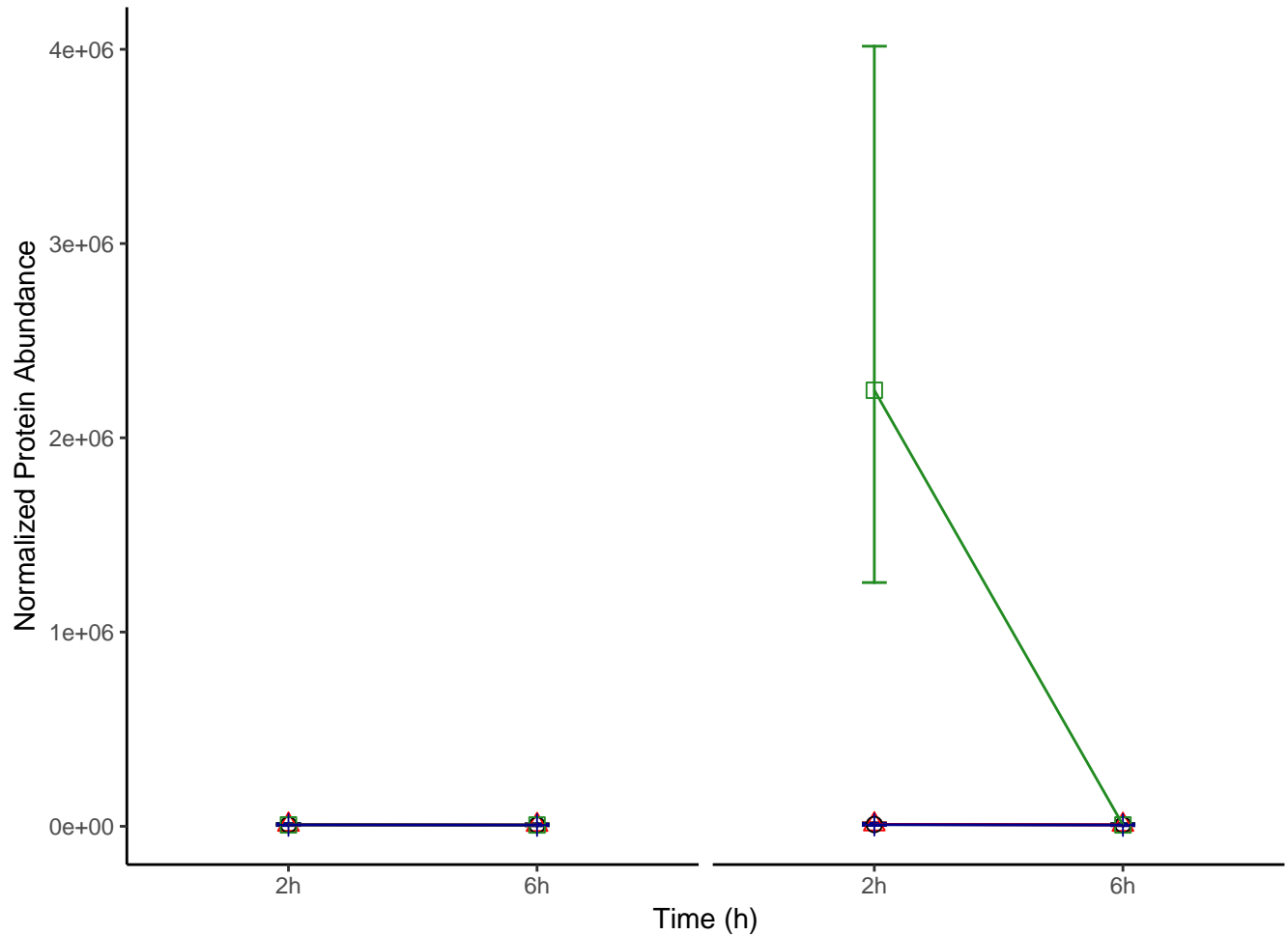


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UREE\_STAAM

TSB

TSB-dex S-443

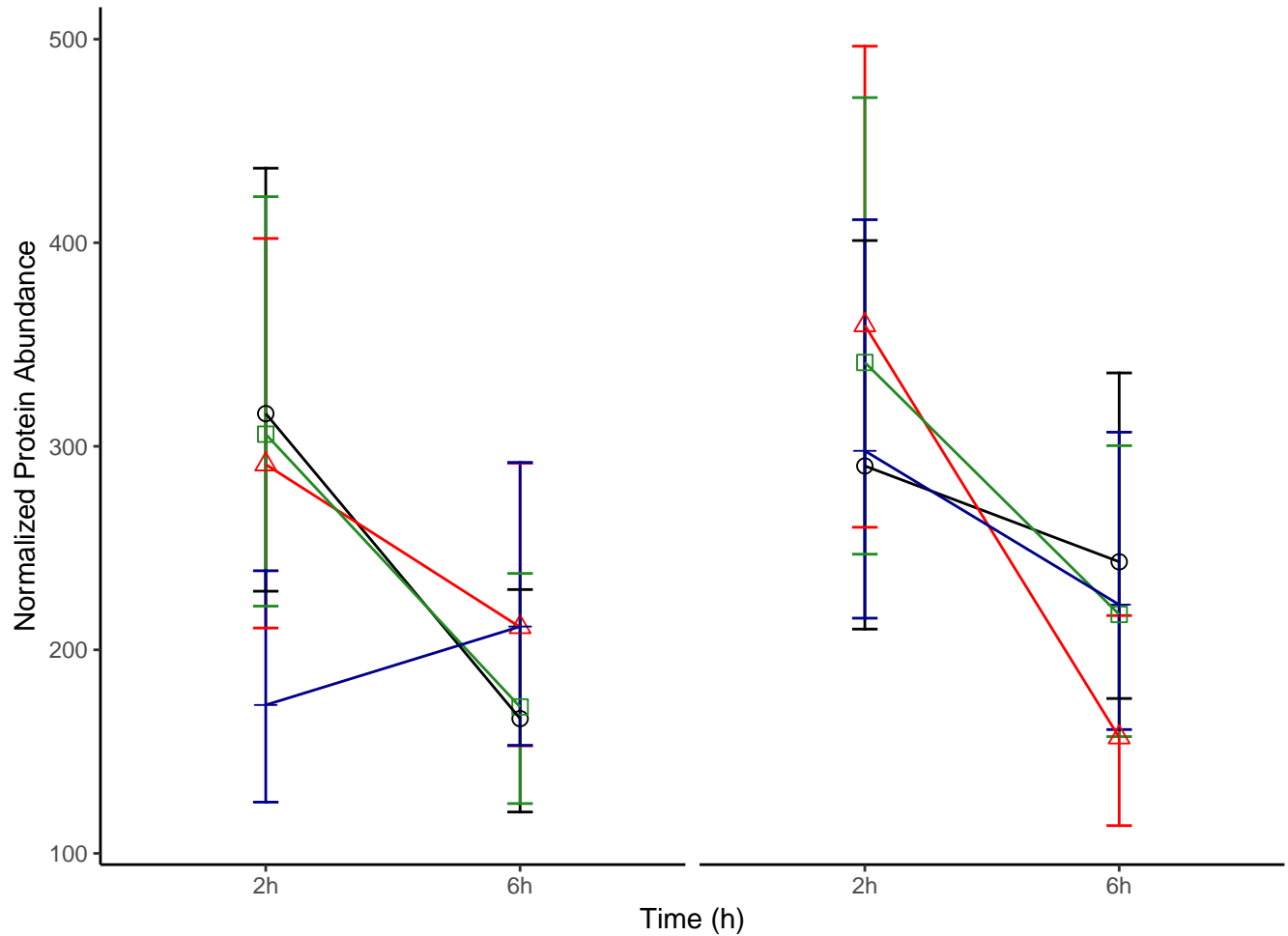


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UREG\_STAAM

TSB

TSB-dex S-444

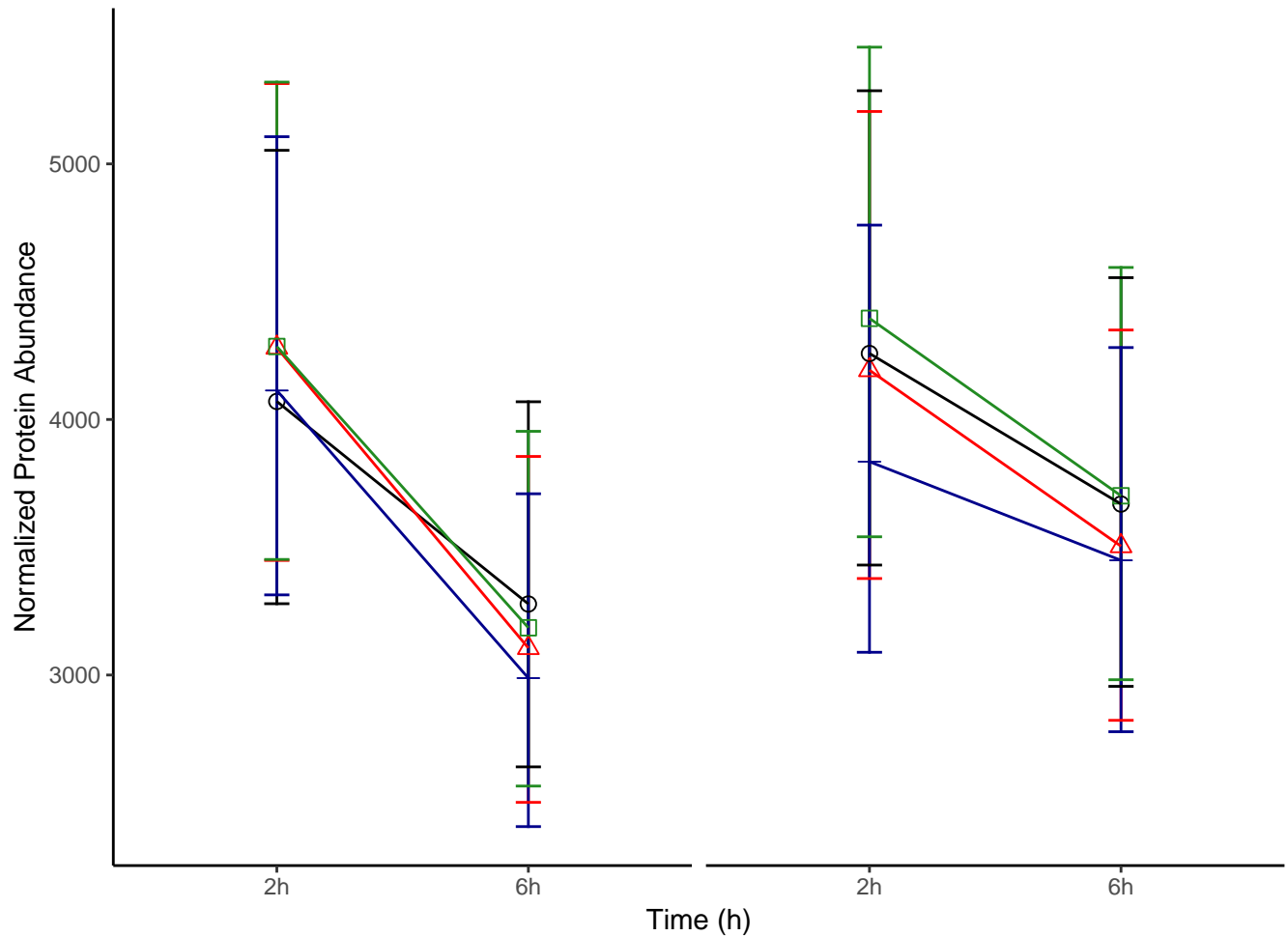


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# URK\_STAAM

TSB

TSB-dex S-445

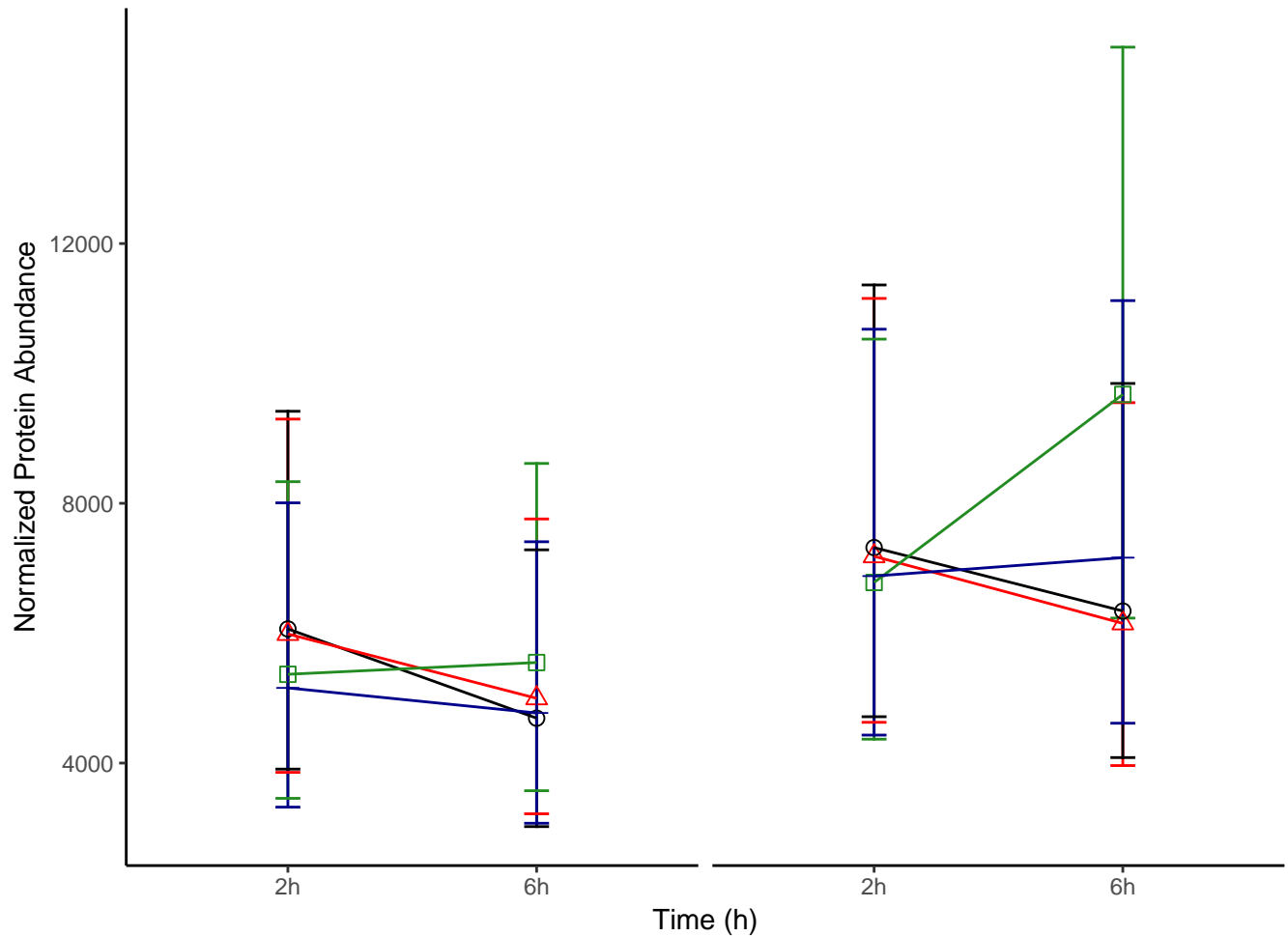


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# URTF\_STAAM

TSB

TSB-dex S-446

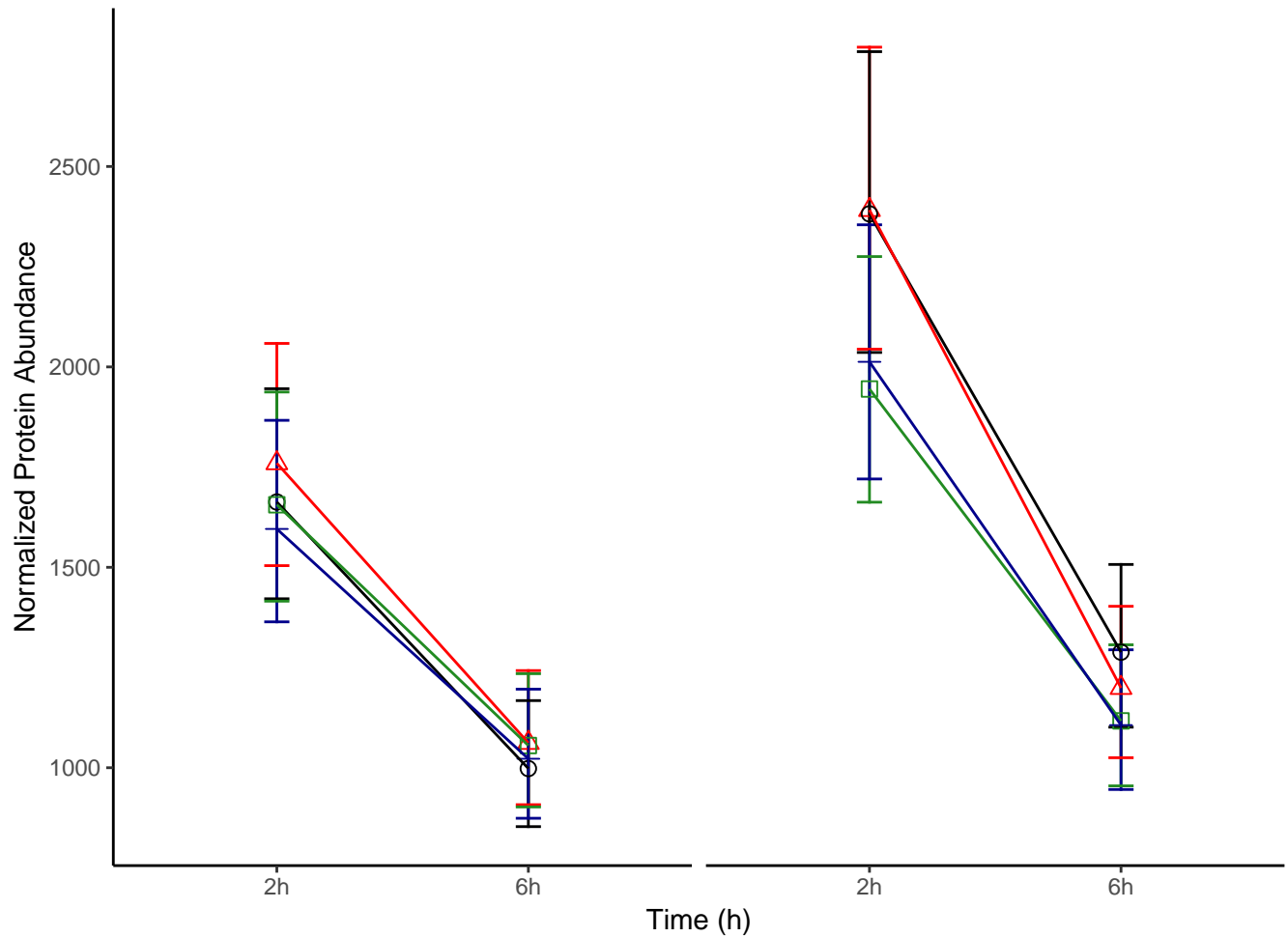


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UVRA\_STAAM

TSB

TSB-dex S-447

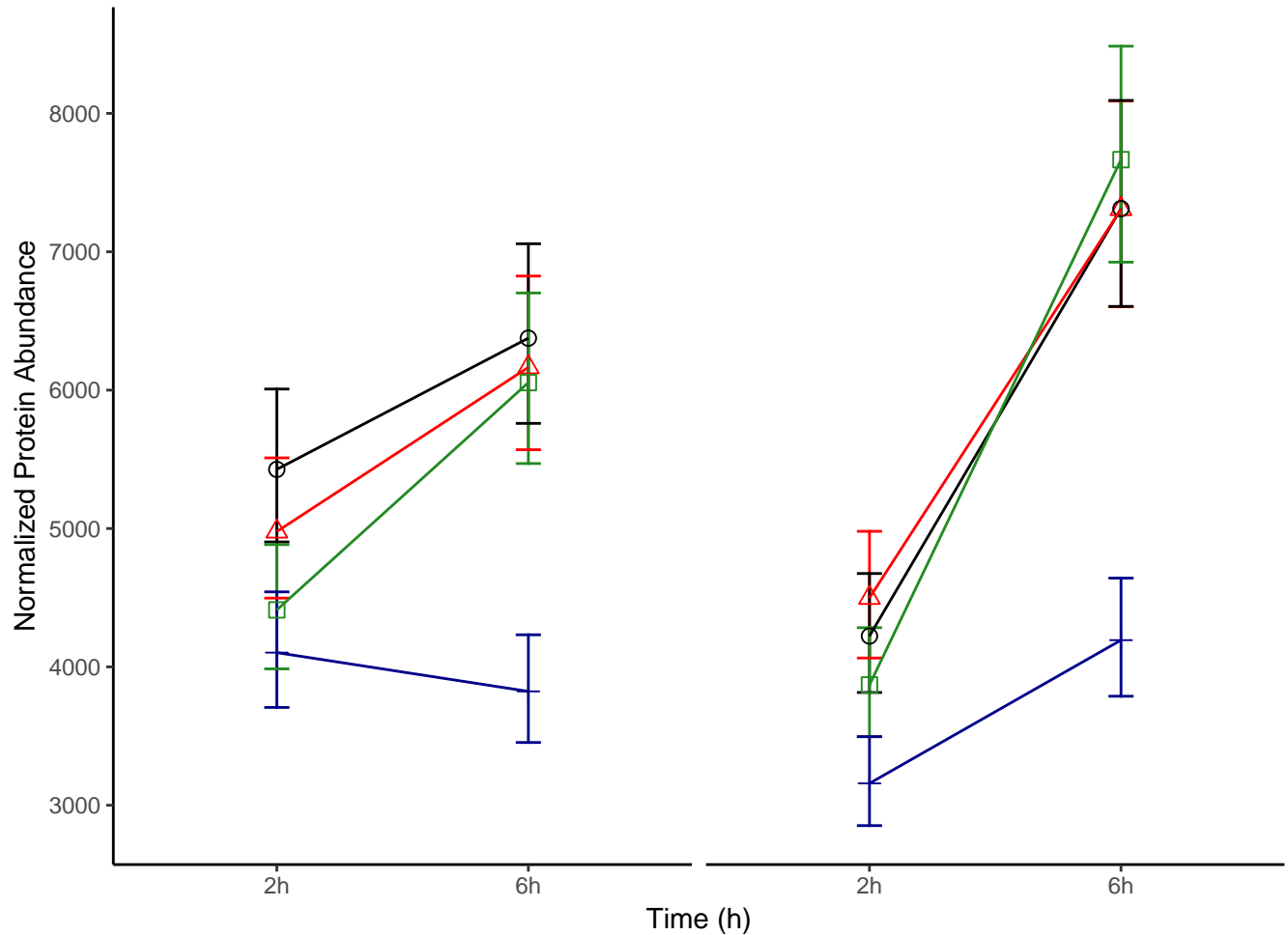


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# VRAC\_STAAM

TSB

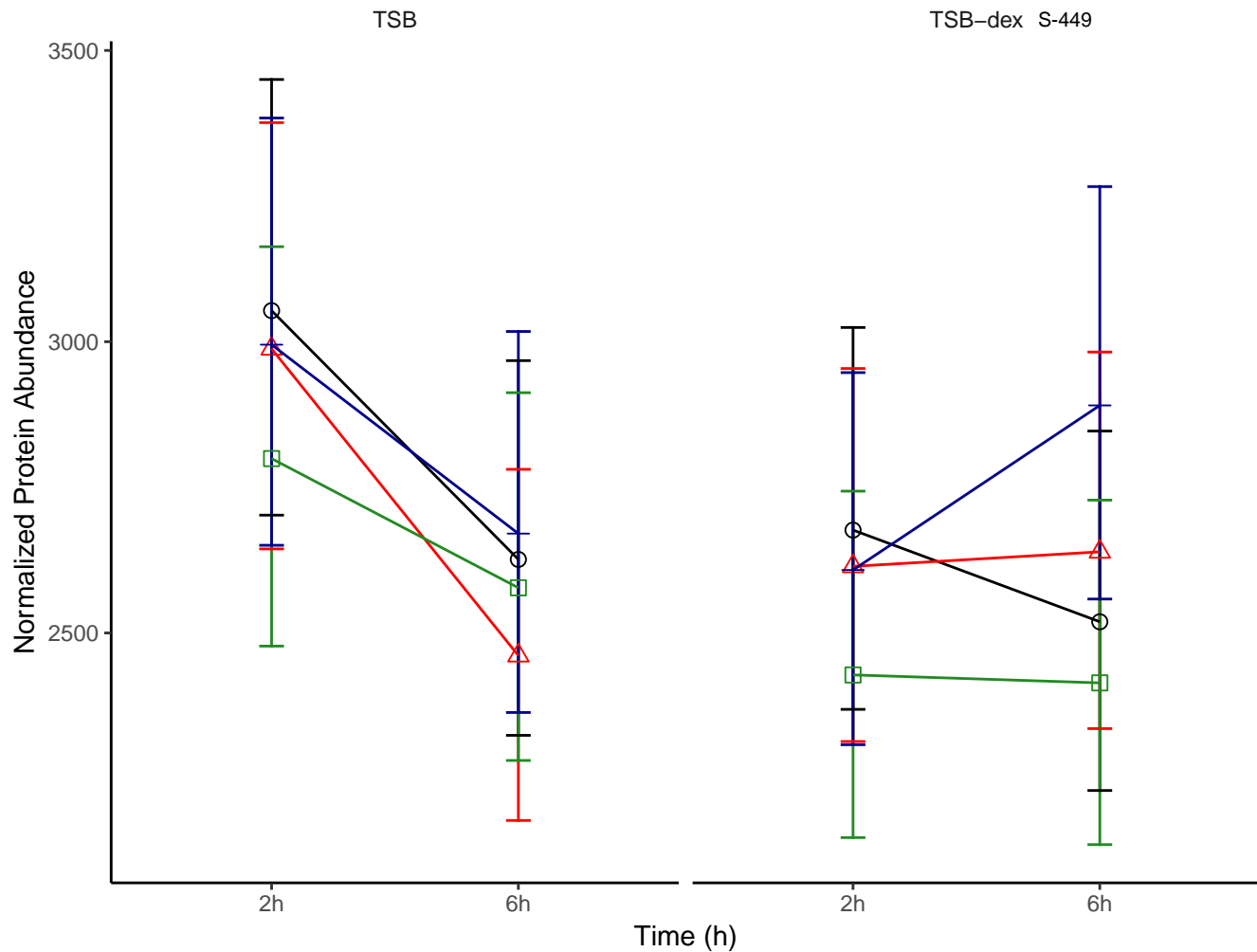
TSB-dex S-448



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# VRAR\_STAAM

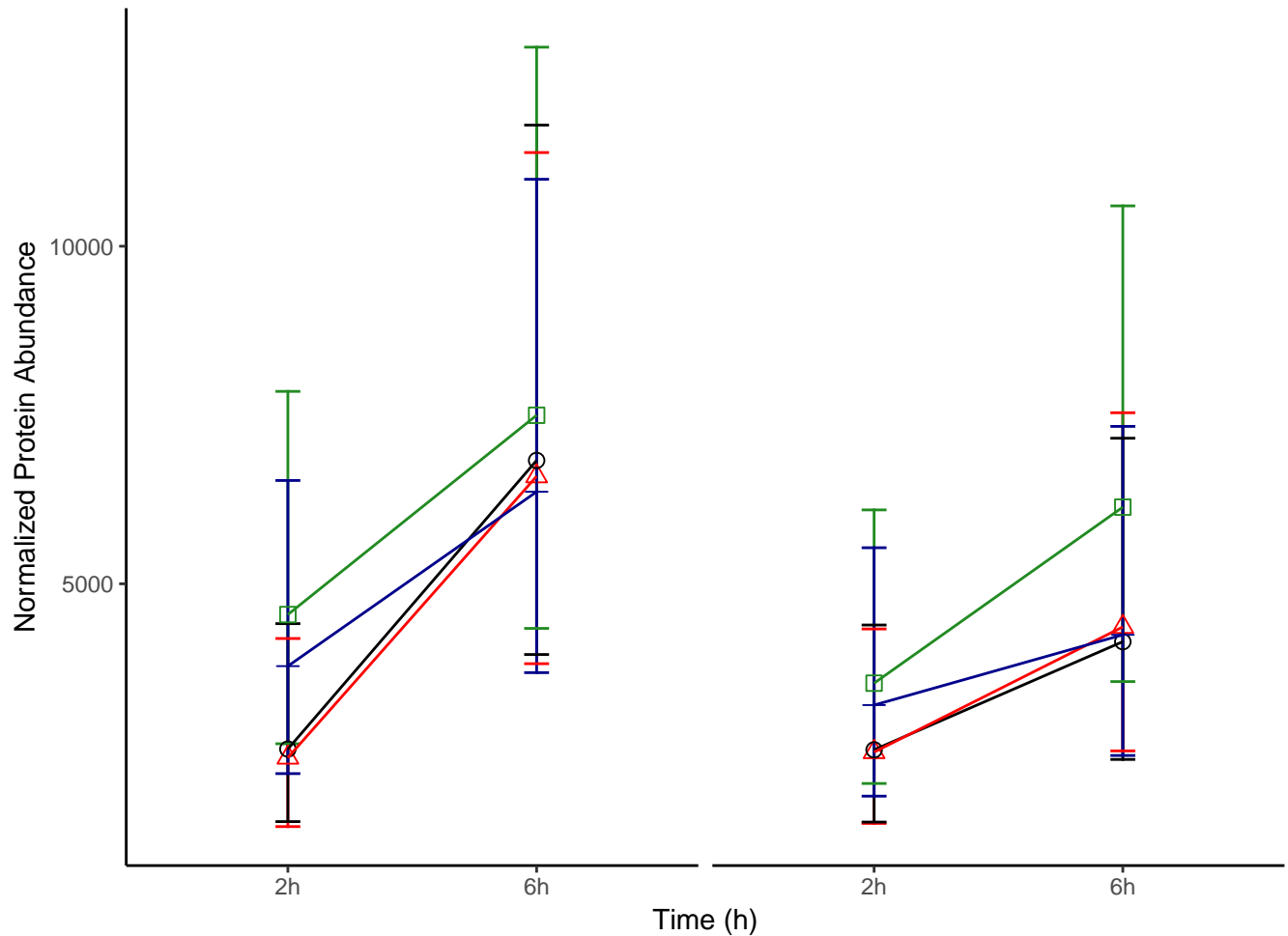


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# WALK\_STAAM

TSB

TSB-dex S-450

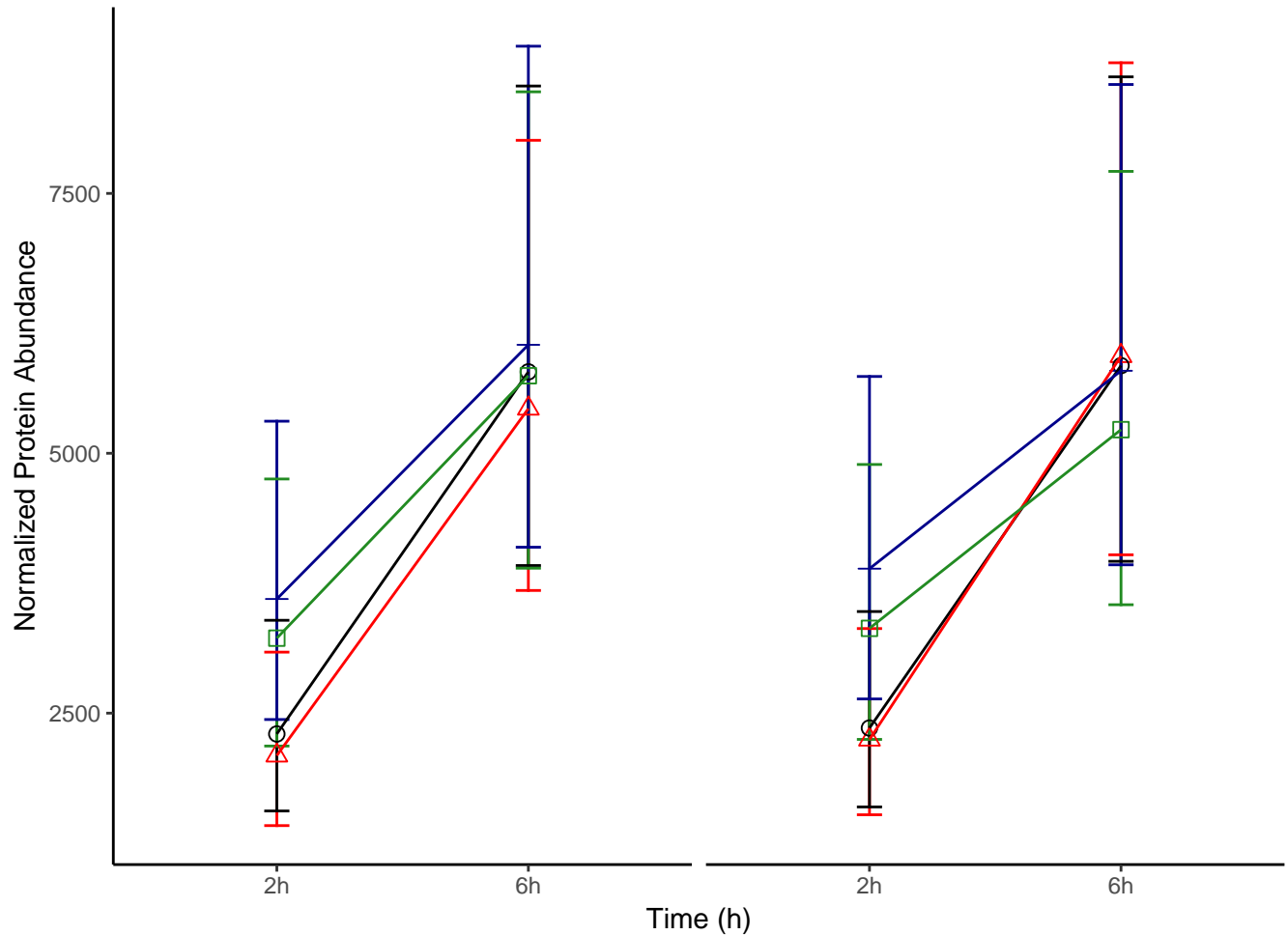


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# WALR\_STAAM

TSB

TSB-dex S-451

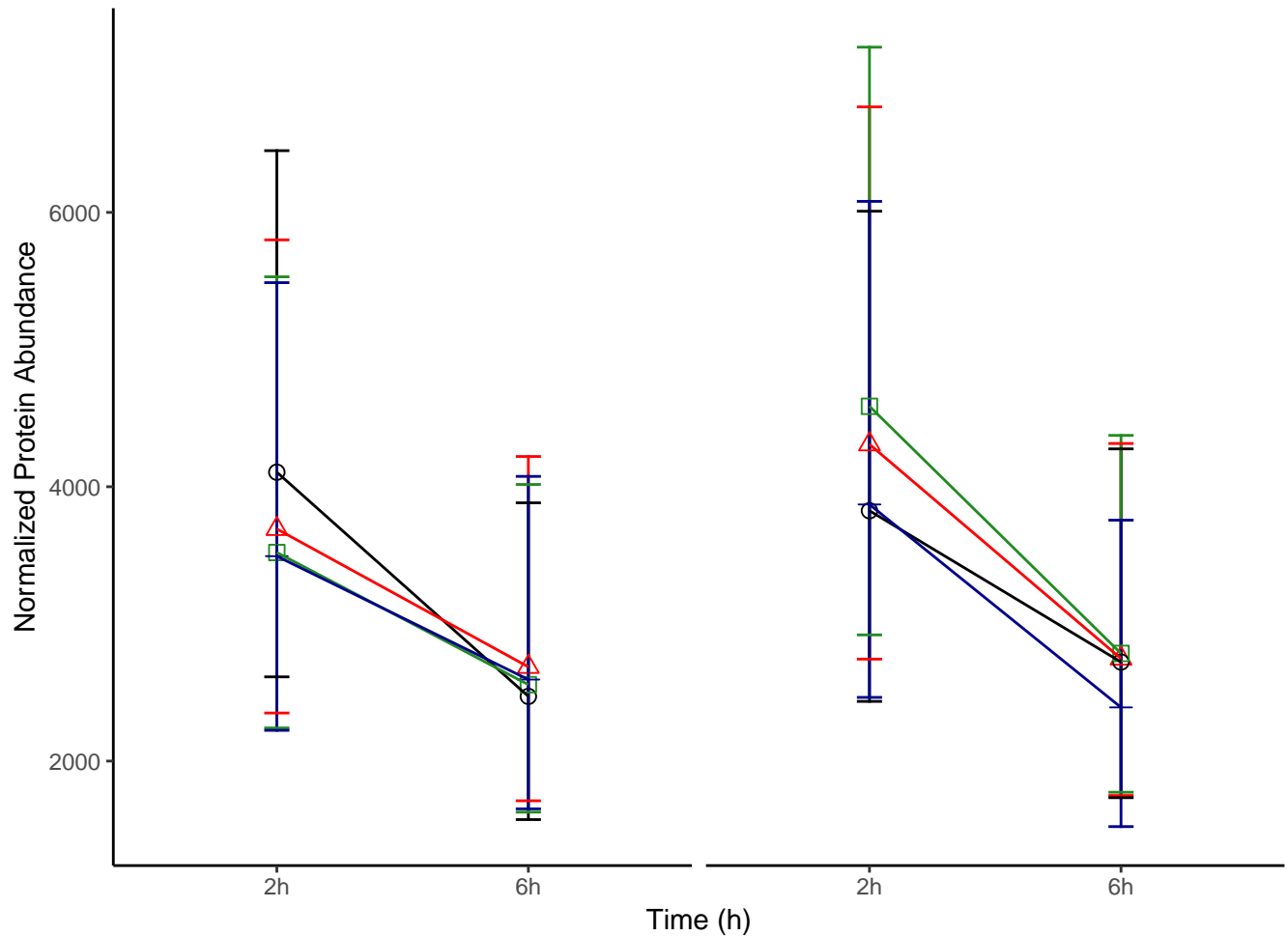


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# XERD\_STAAM

TSB

TSB-dex S-452

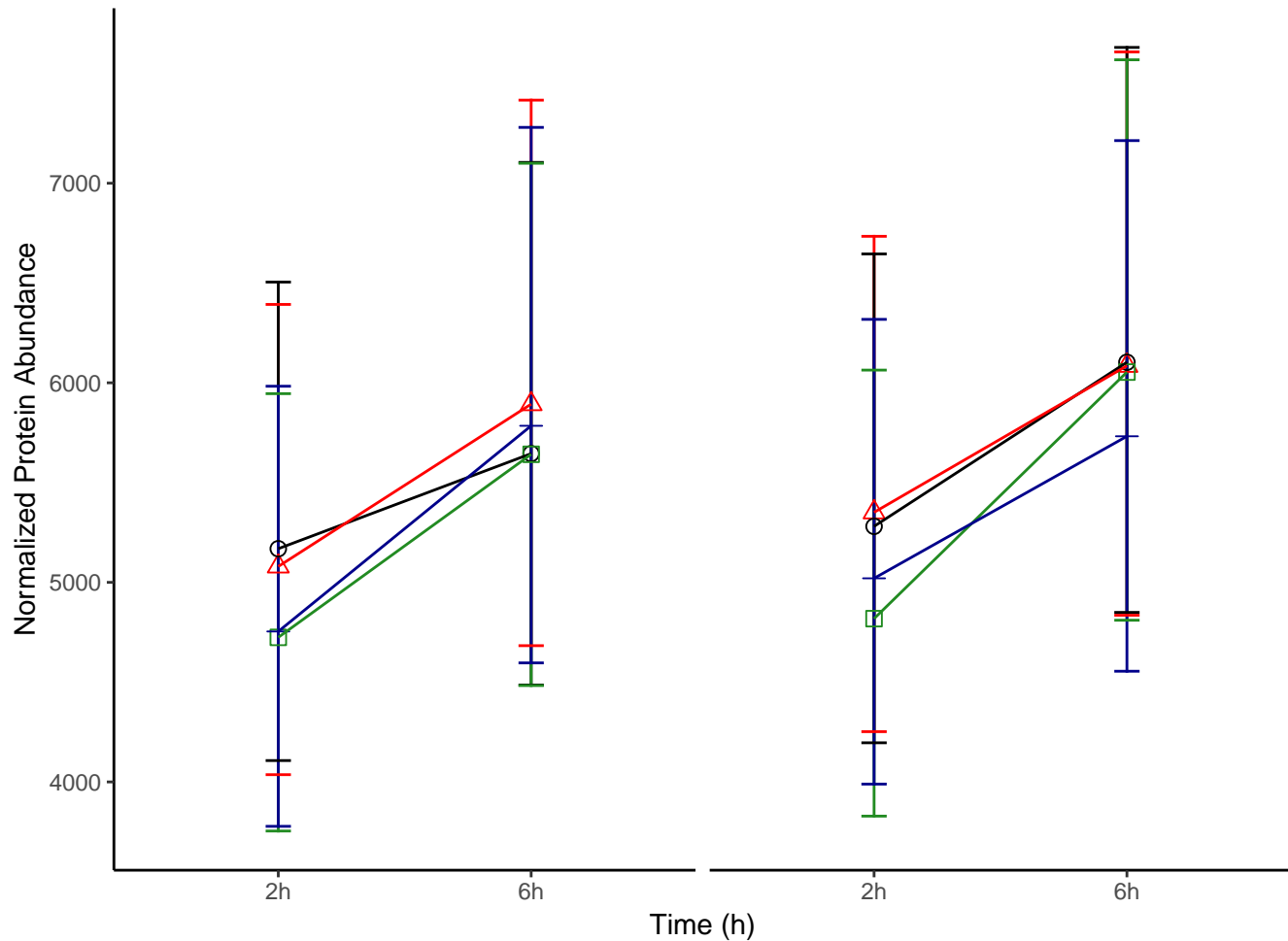


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*

# XPT\_STAAM

TSB

TSB-dex S-453

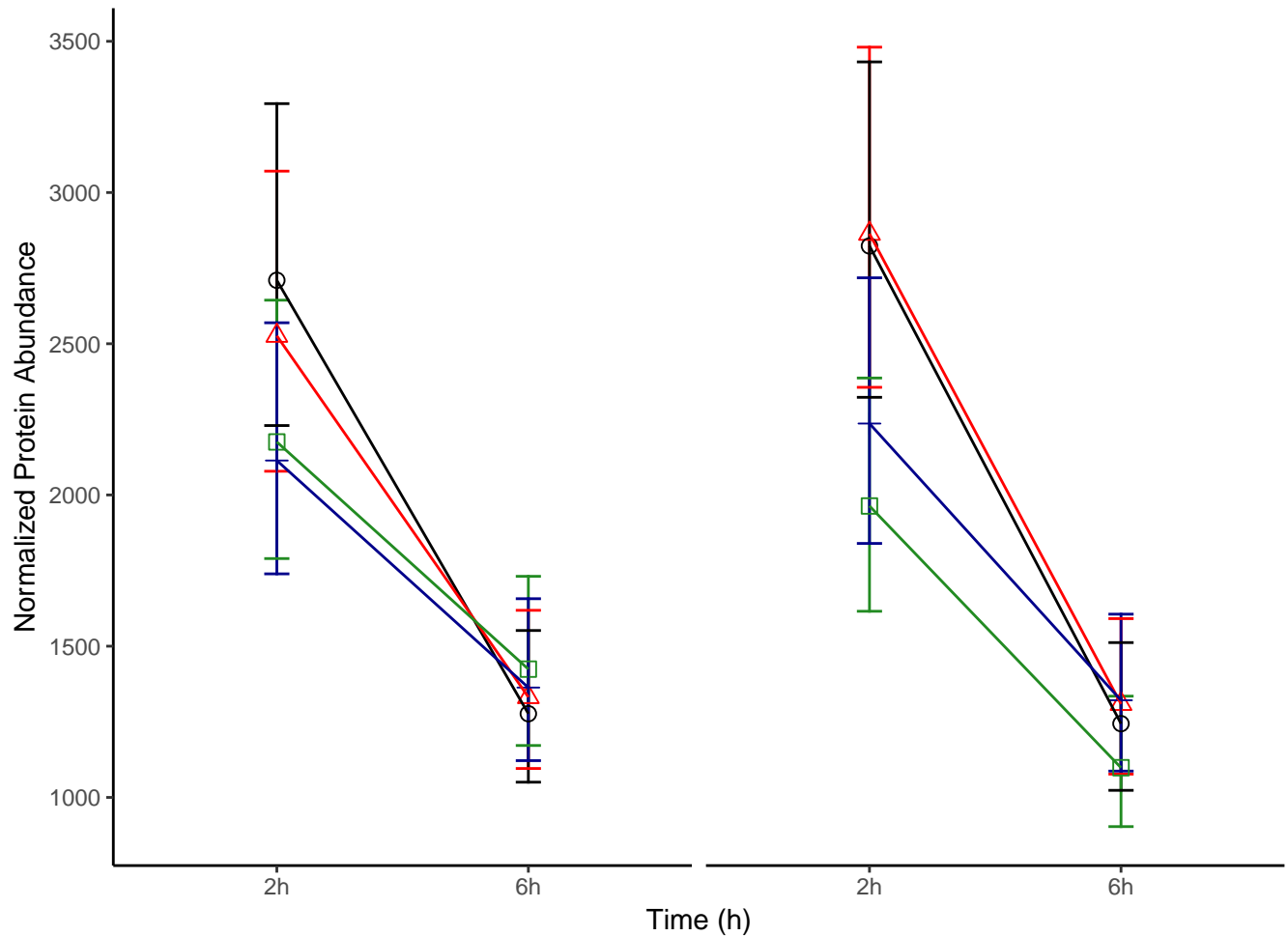


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y098\_STAAM

TSB

TSB-dex S-454

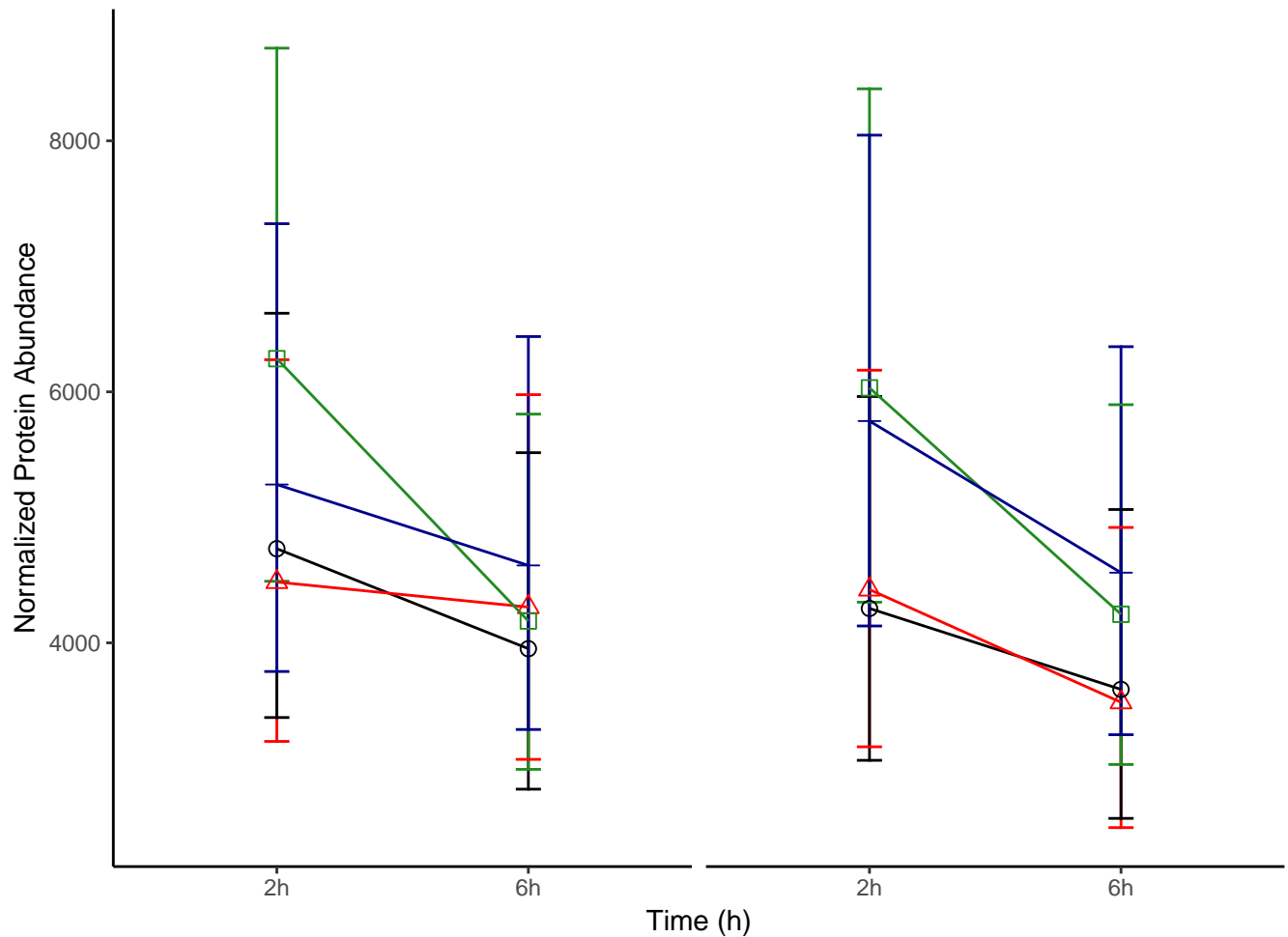


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y099\_STAAM

TSB

TSB-dex S-455

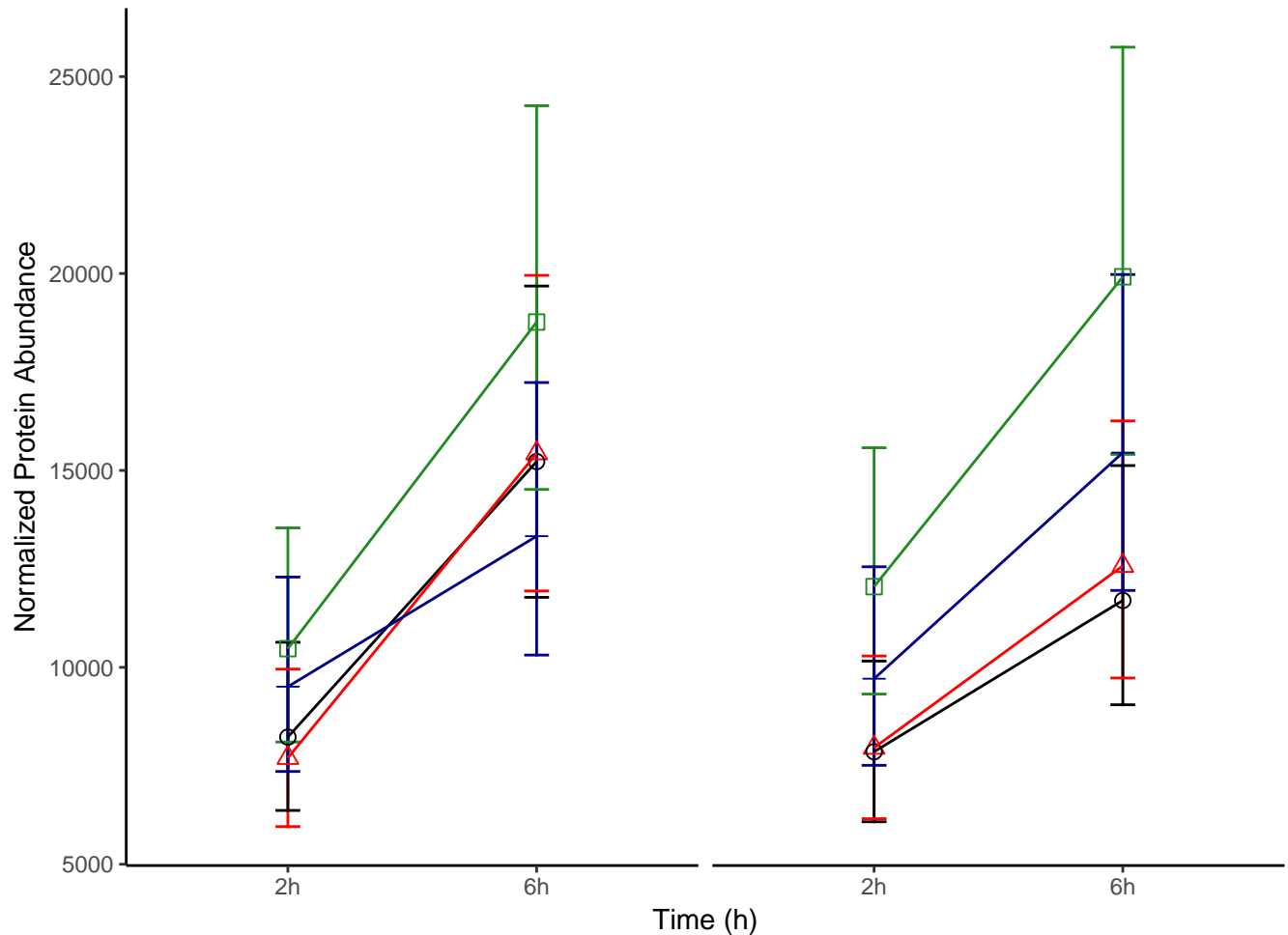


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1015\_STAAM

TSB

TSB-dex S-456



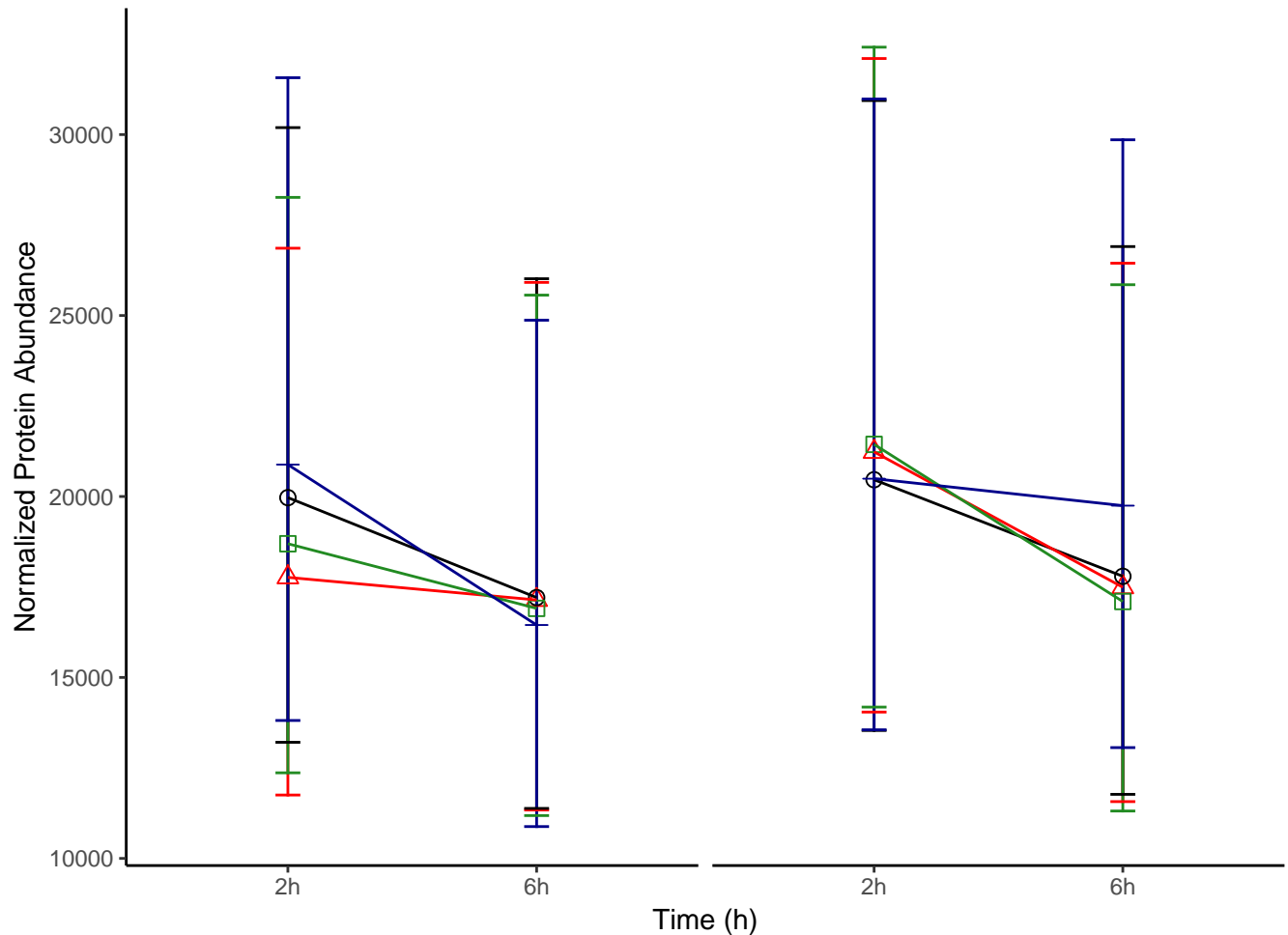
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# Y1090\_STAAM

TSB

TSB-dex S-457

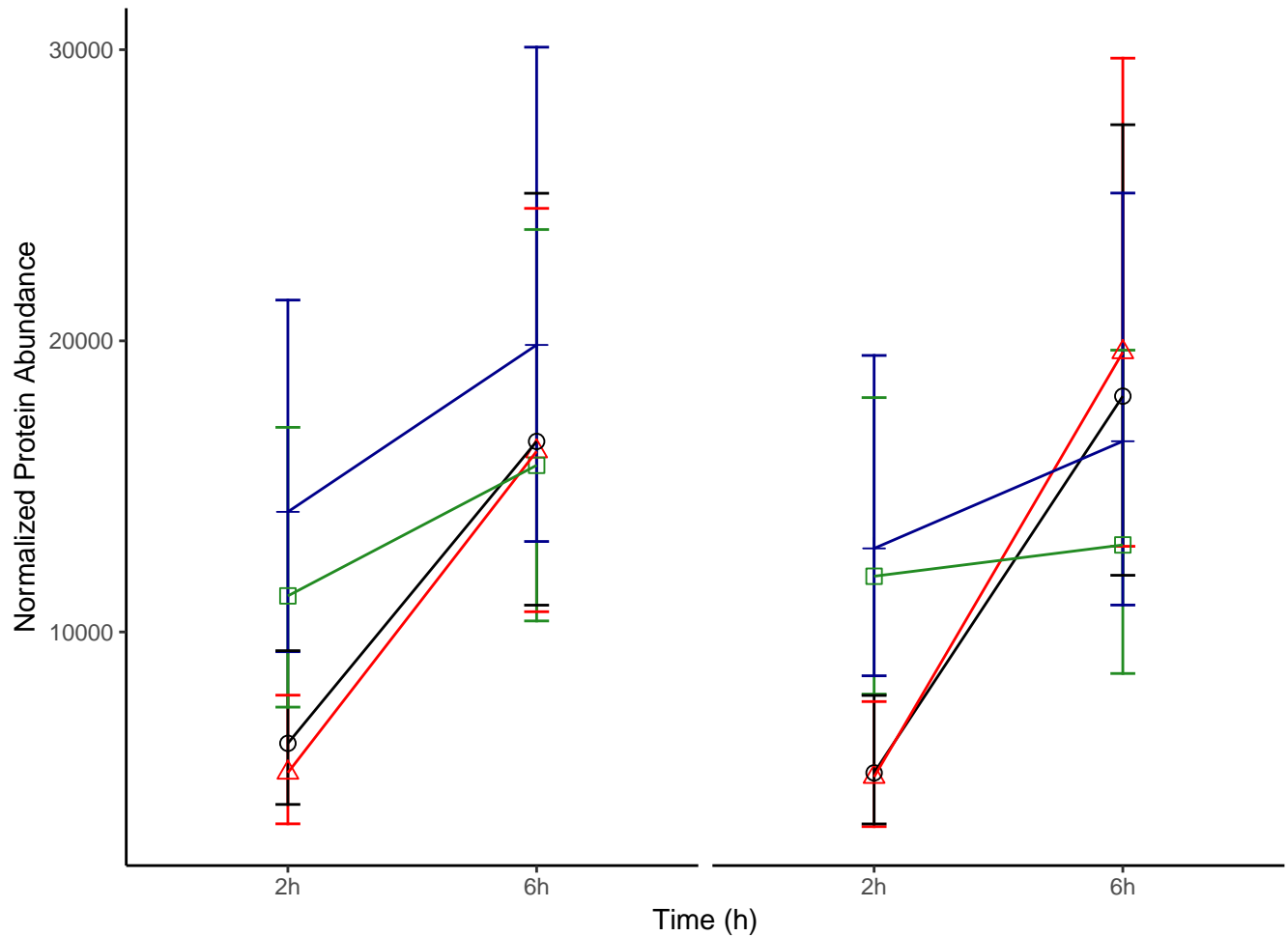


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1176\_STAAM

TSB

TSB-dex S-458

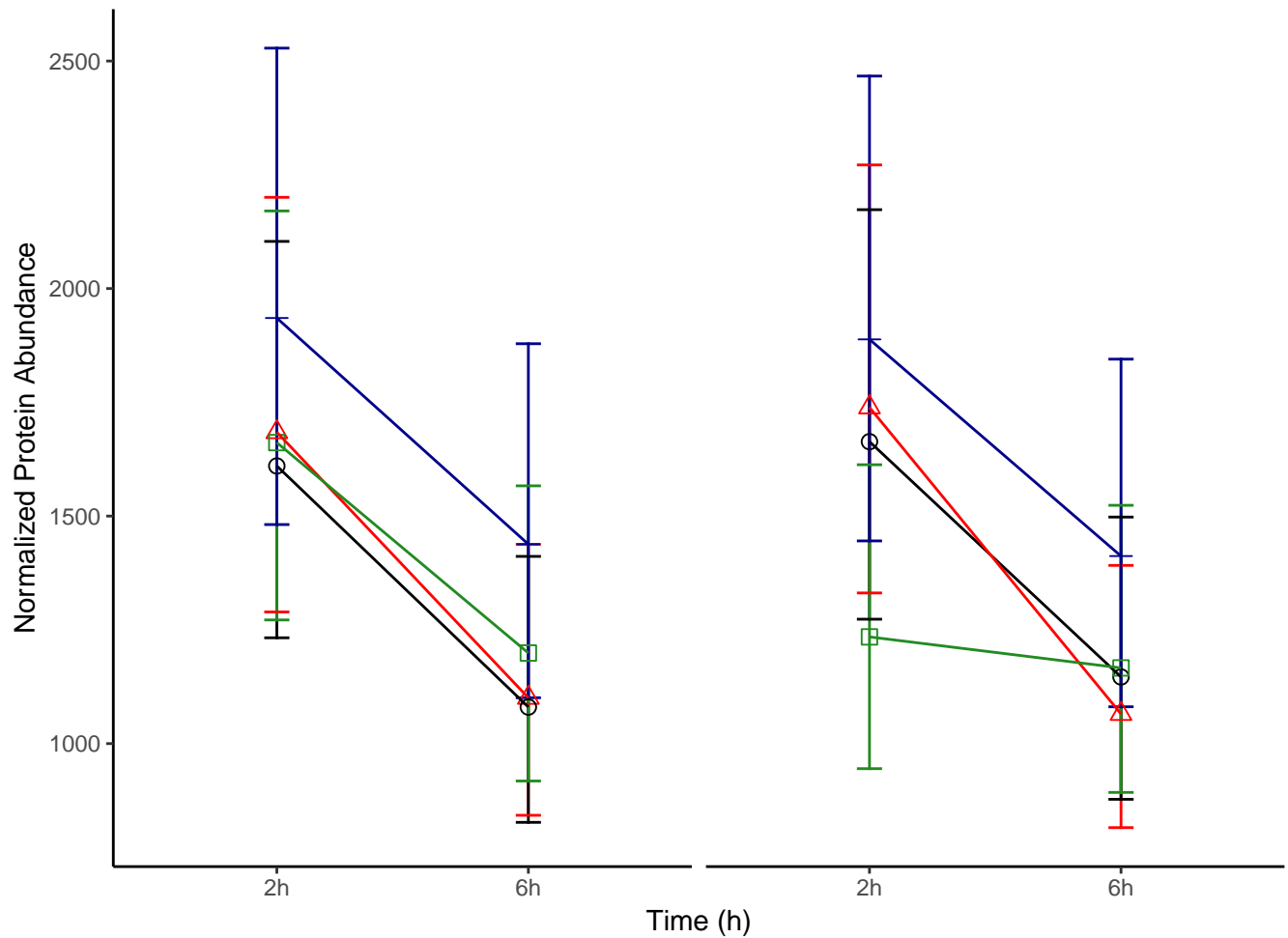


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1177\_STAAM

TSB

TSB-dex S-459

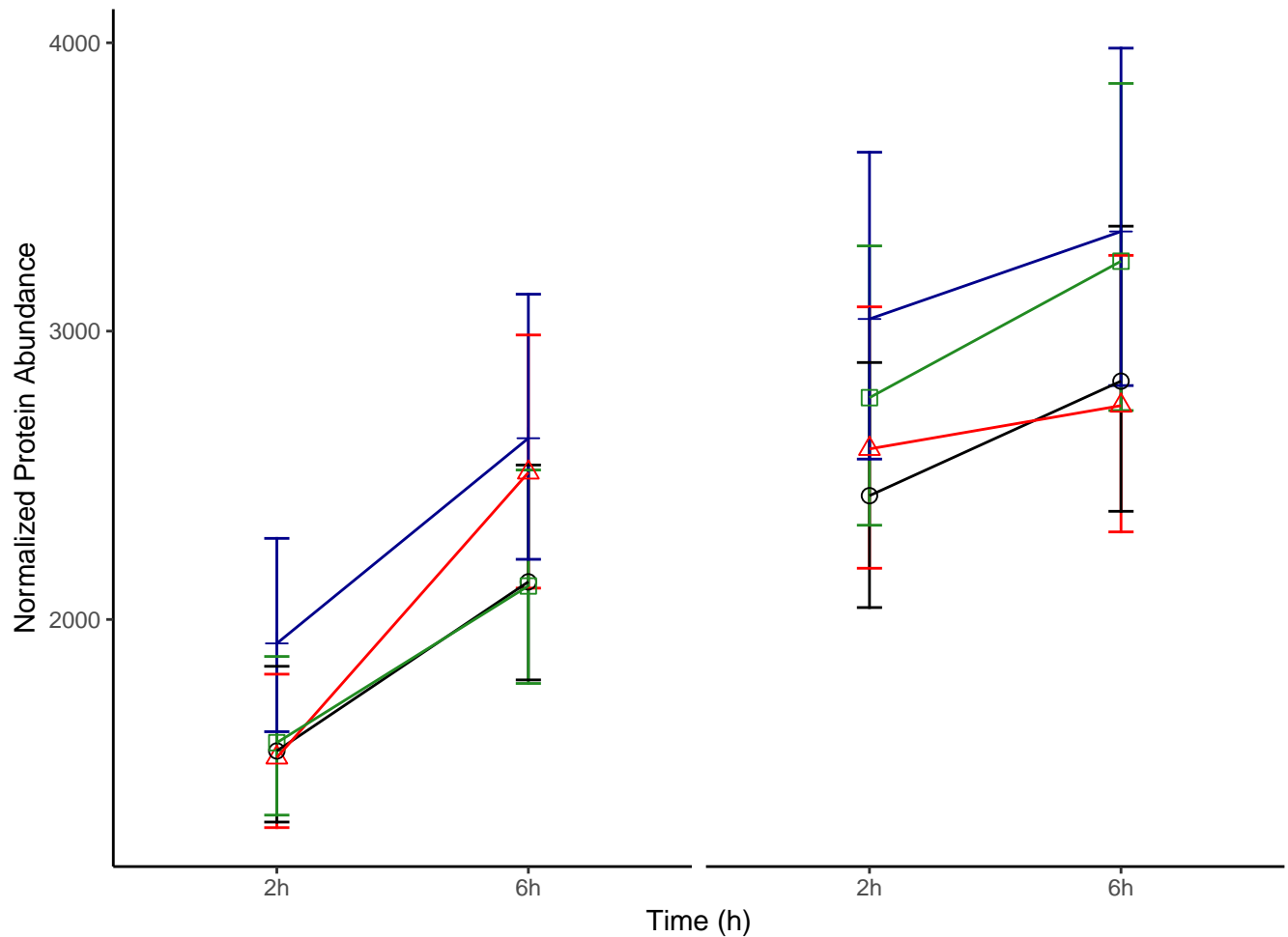


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1187\_STAAM

TSB

TSB-dex S-460

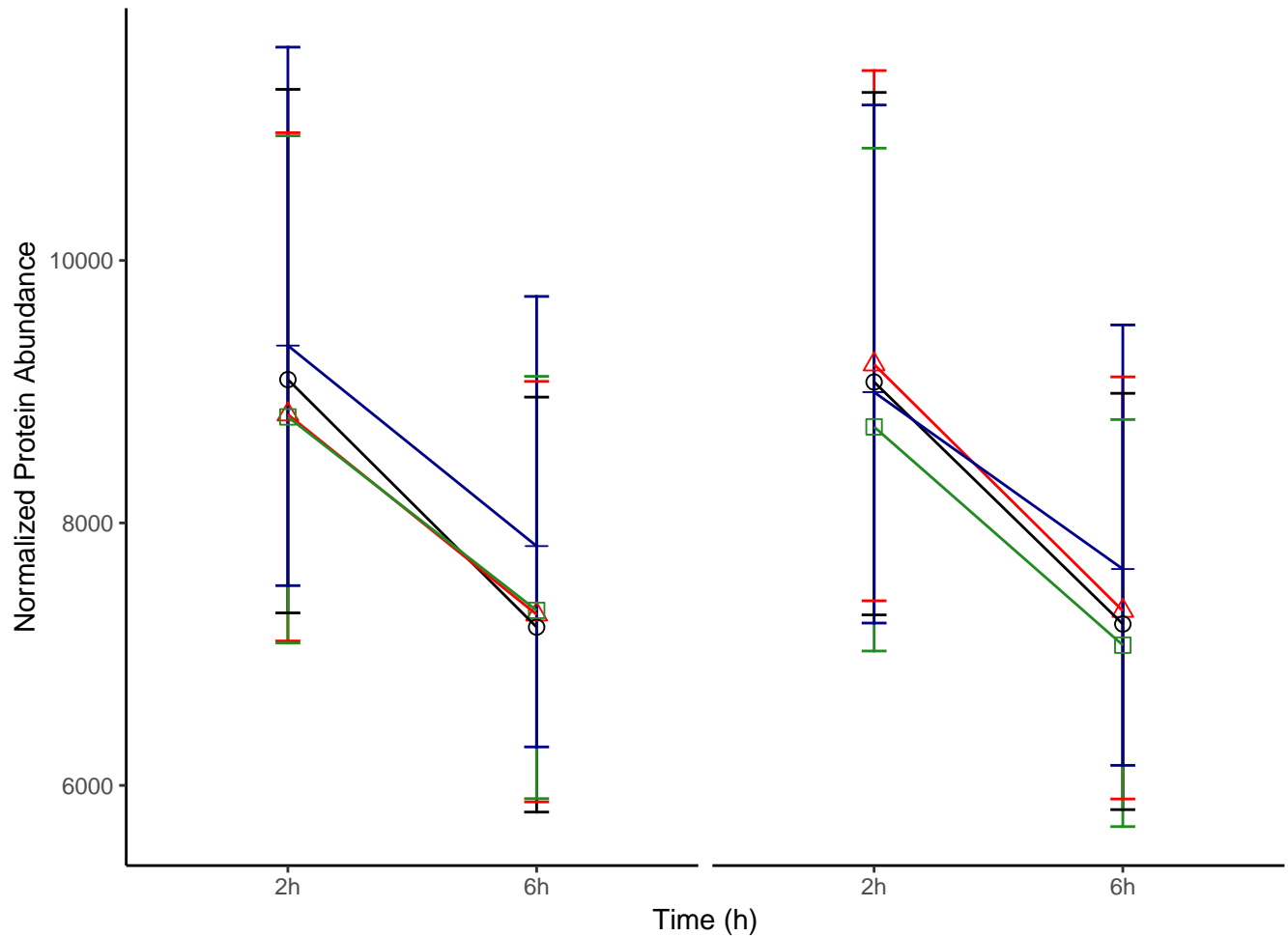


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1226\_STAAM

TSB

TSB-dex S-461

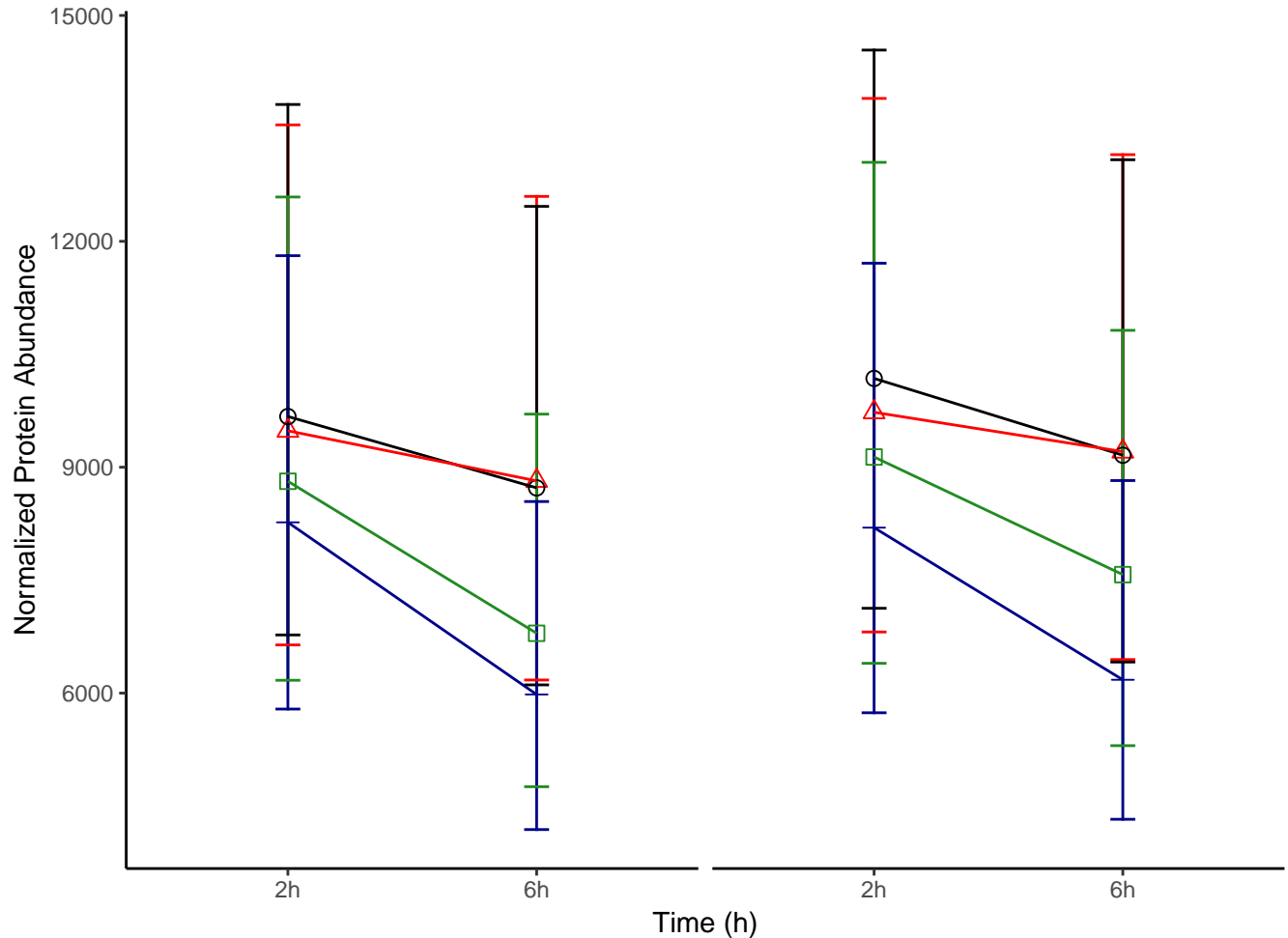


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1341\_STAAM

TSB

TSB-dex S-462

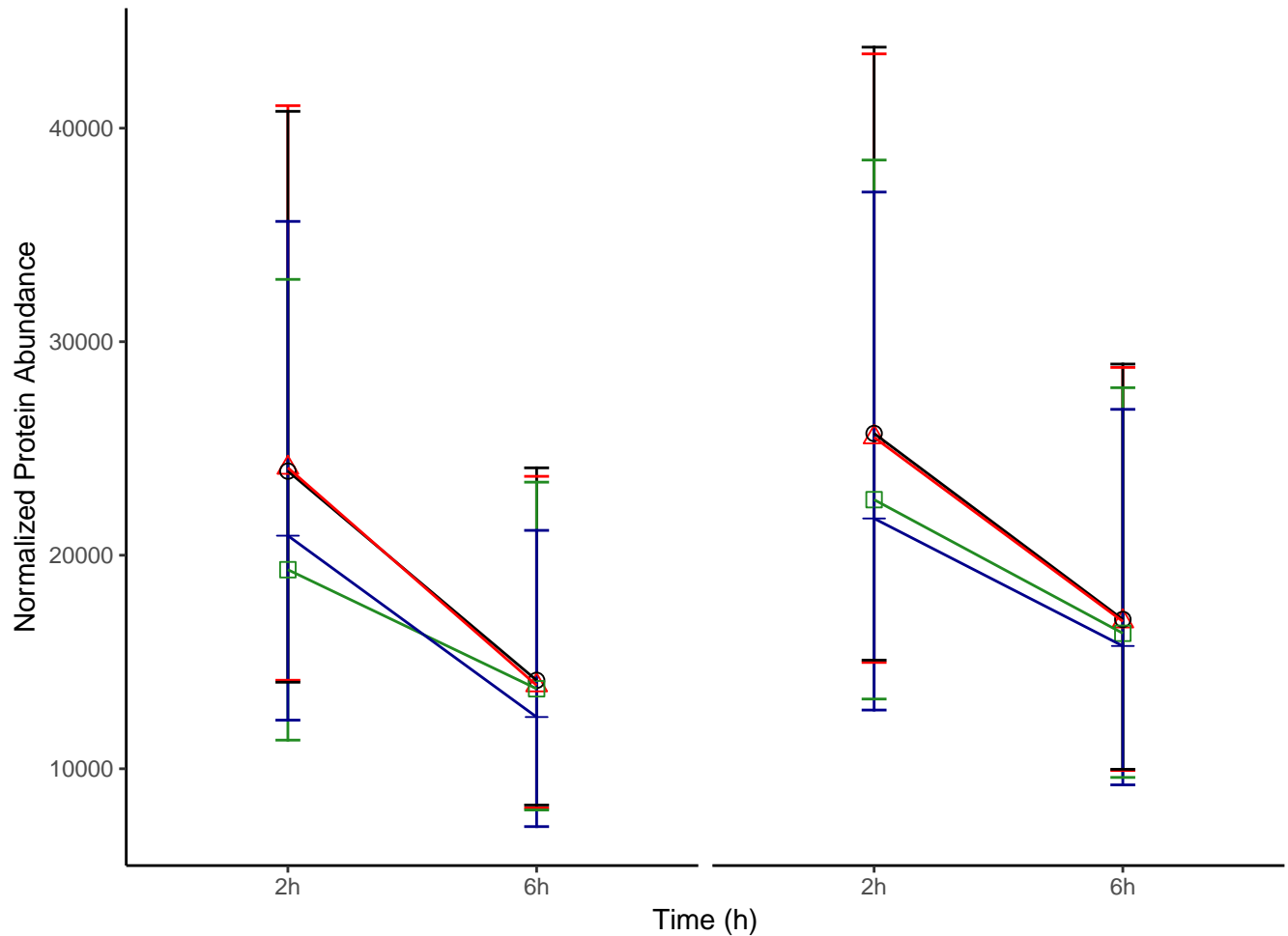


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1343\_STAAM

TSB

TSB-dex S-463

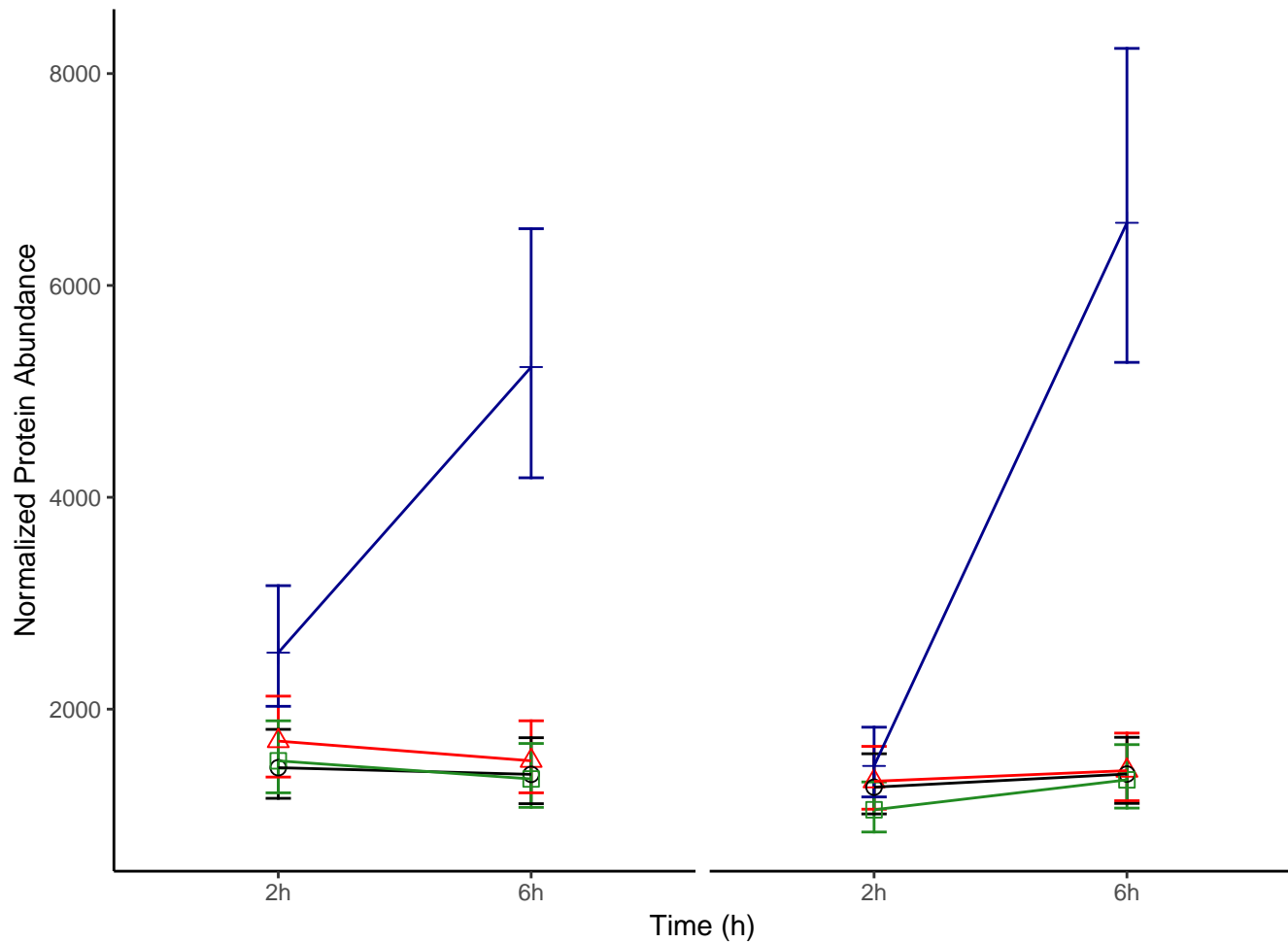


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1352\_STAAM

TSB

TSB-dex S-464



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

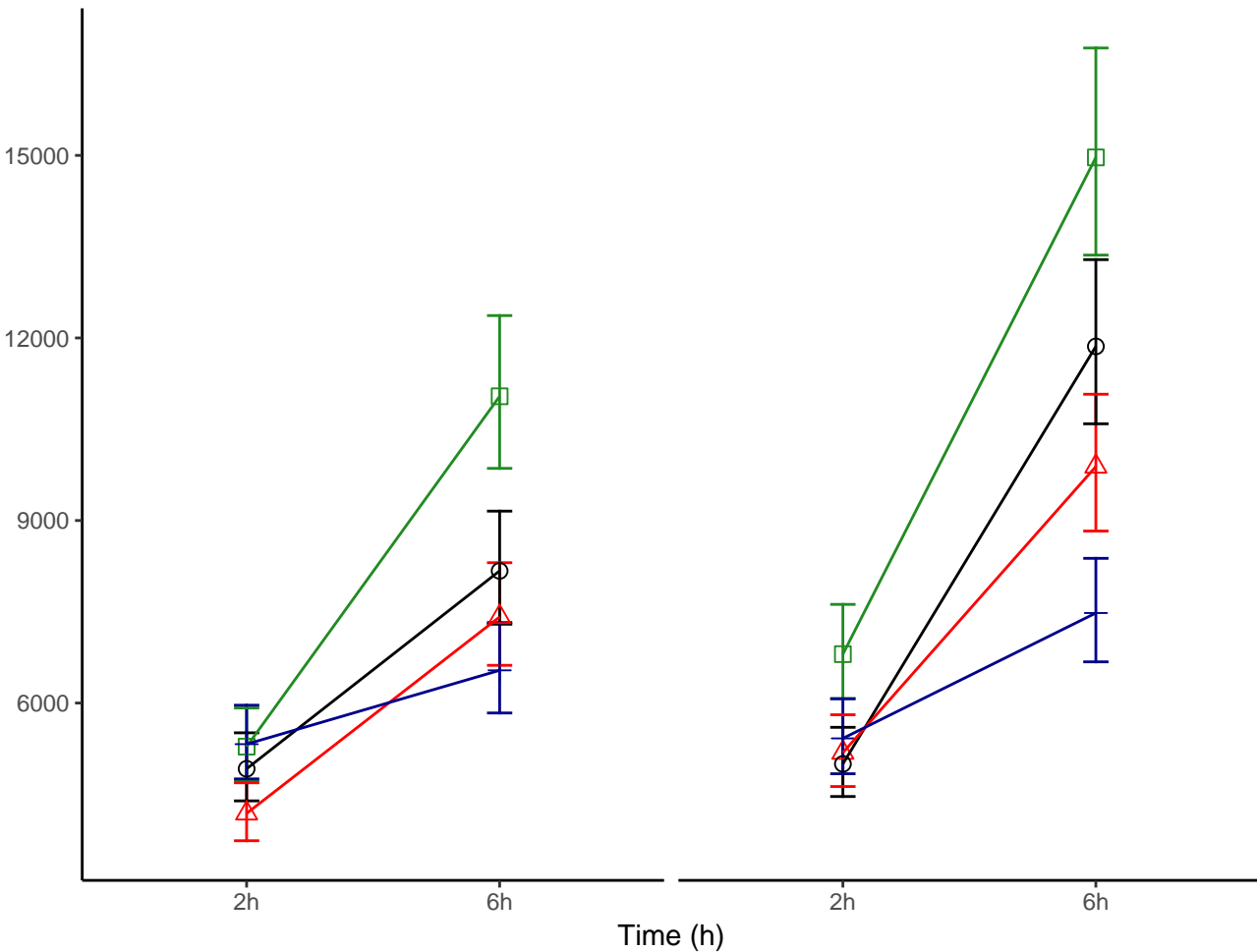


# Y1363\_STAAM

TSB

TSB-dex S-465

Normalized Protein Abundance

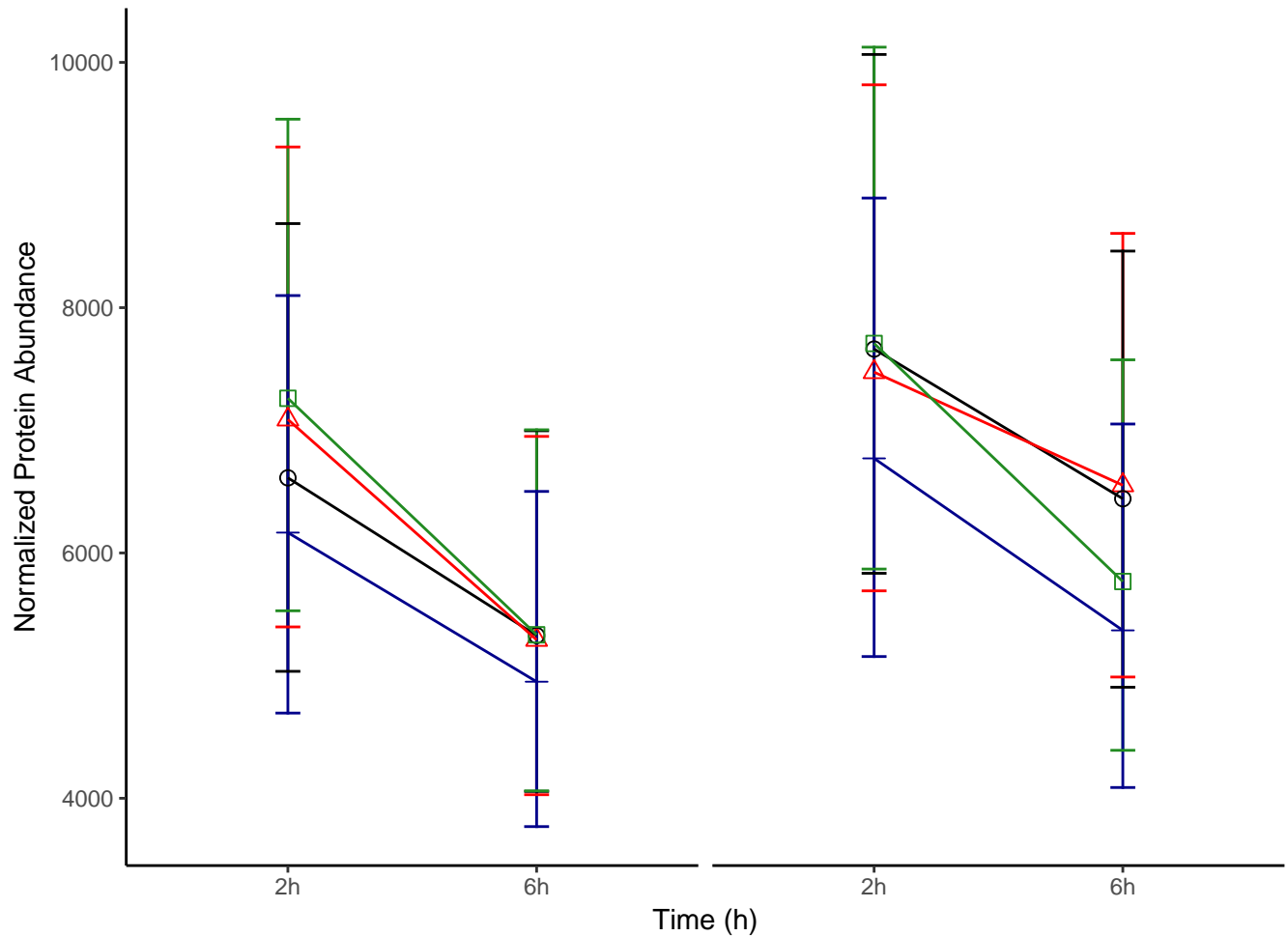


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1409\_STAAM

TSB

TSB-dex S-466

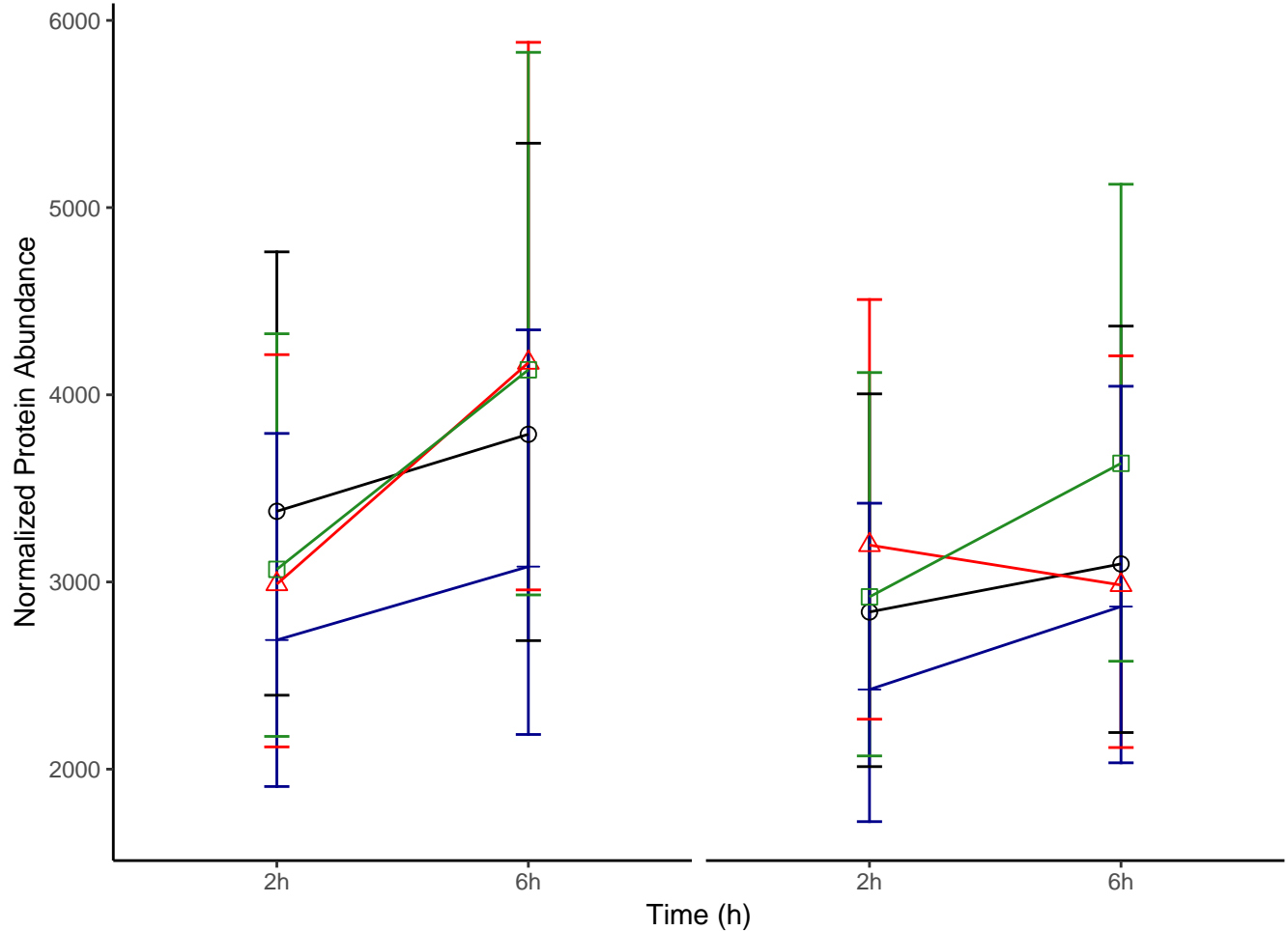


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1425\_STAAM

TSB

TSB-dex S-467

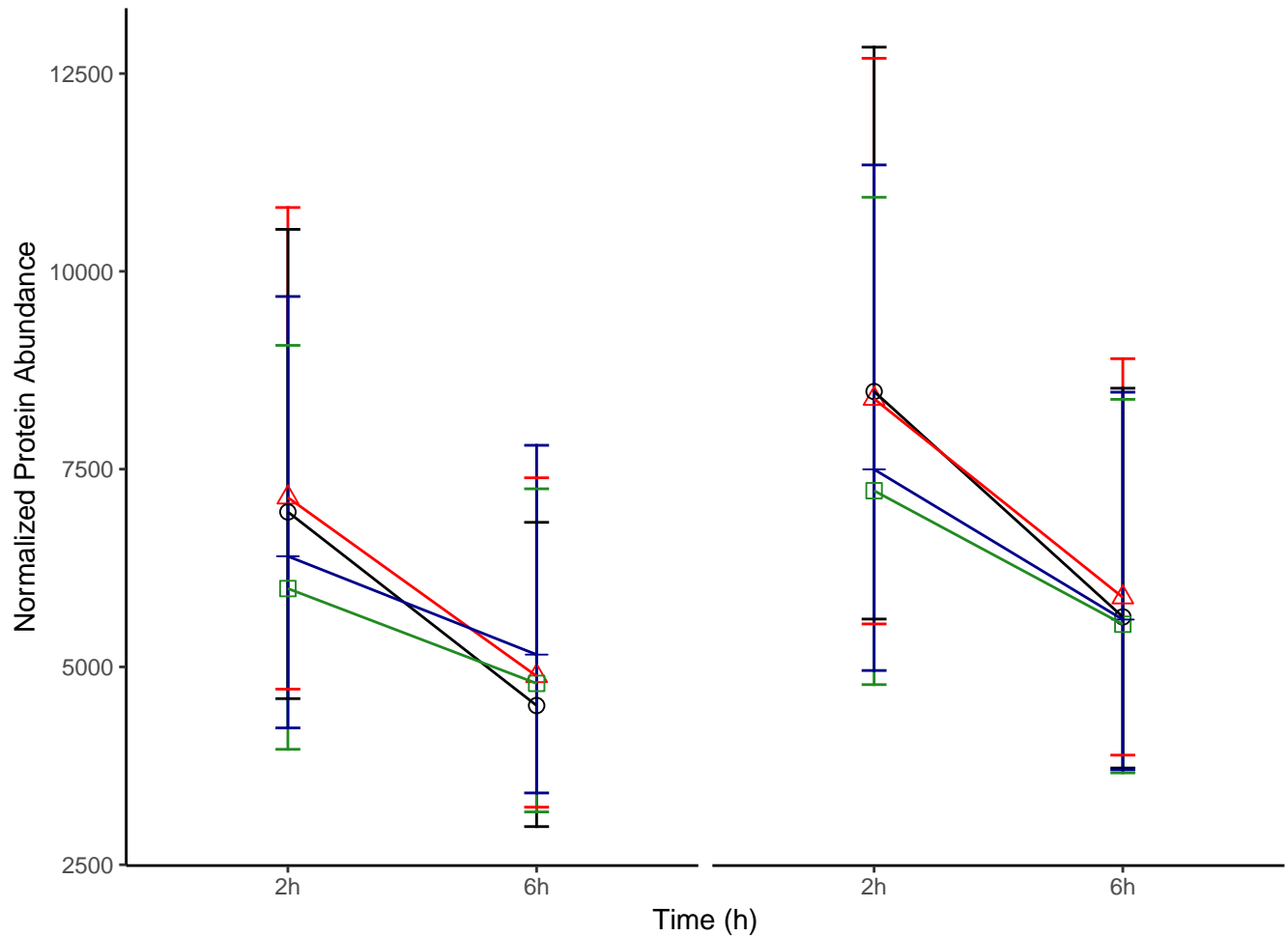


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# Y1462\_STAAM

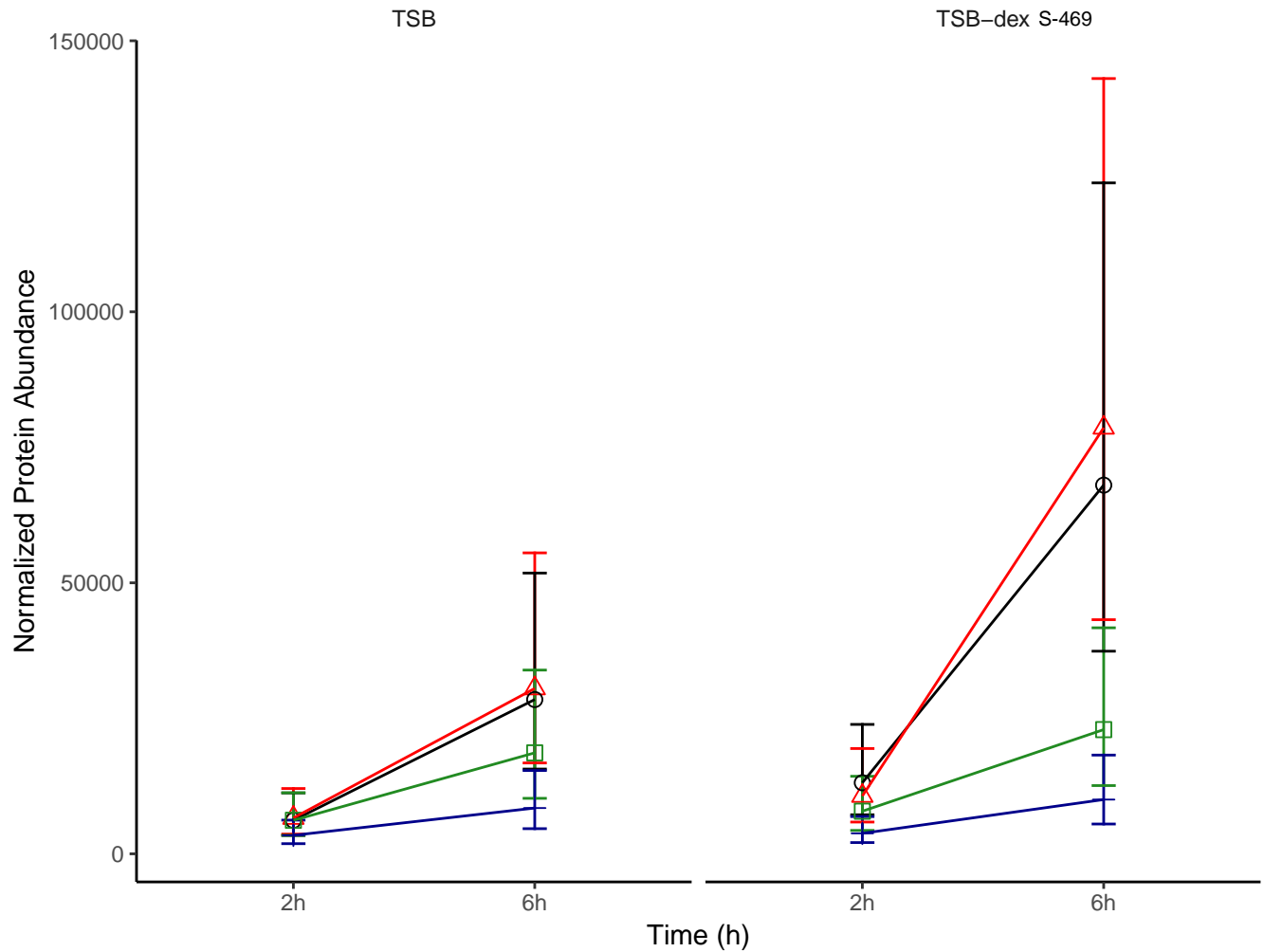
TSB

TSB-dex S-468



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1514\_STAAM

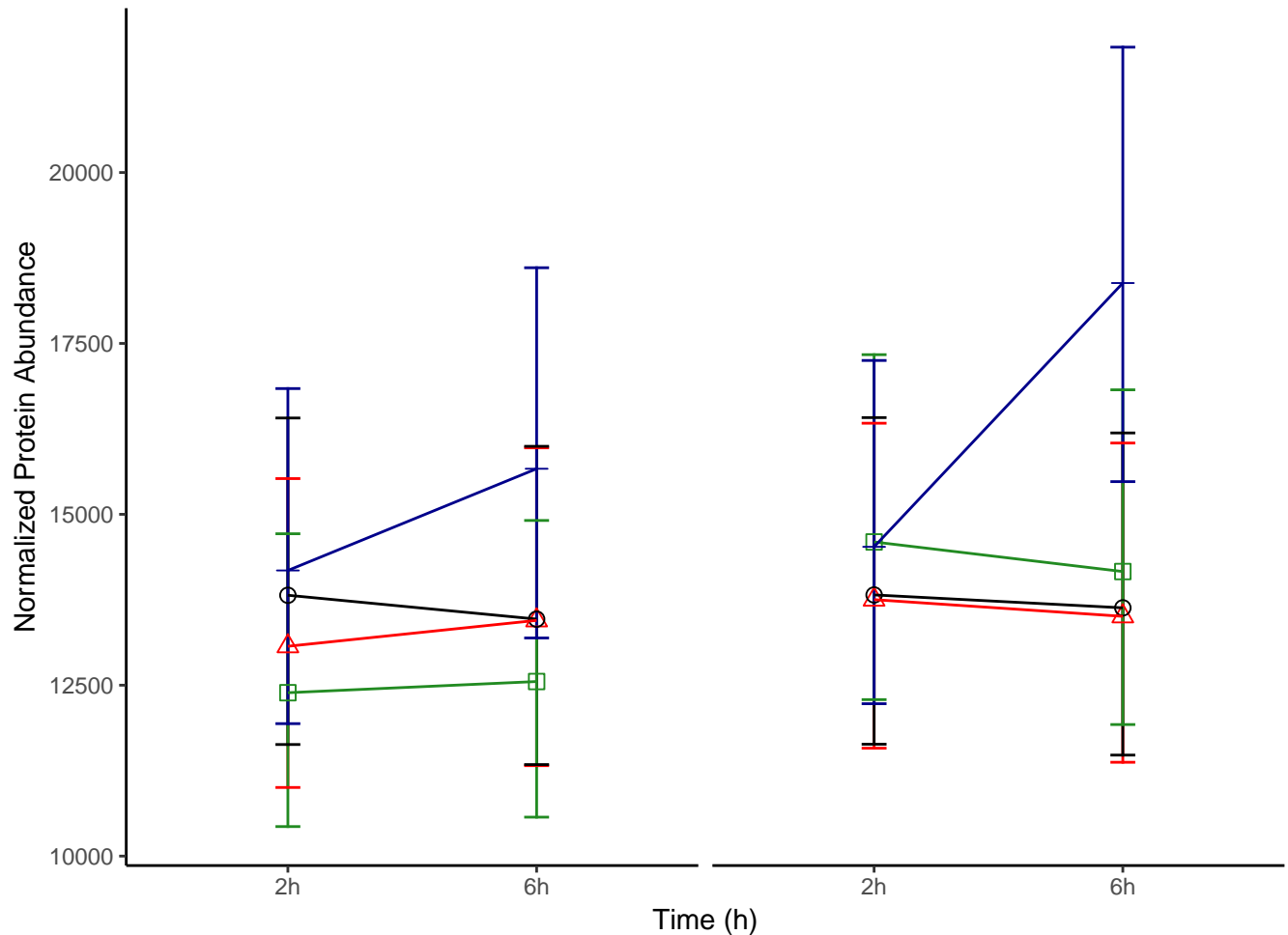


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*

# Y1573\_STAAM

TSB

TSB-dex S-470

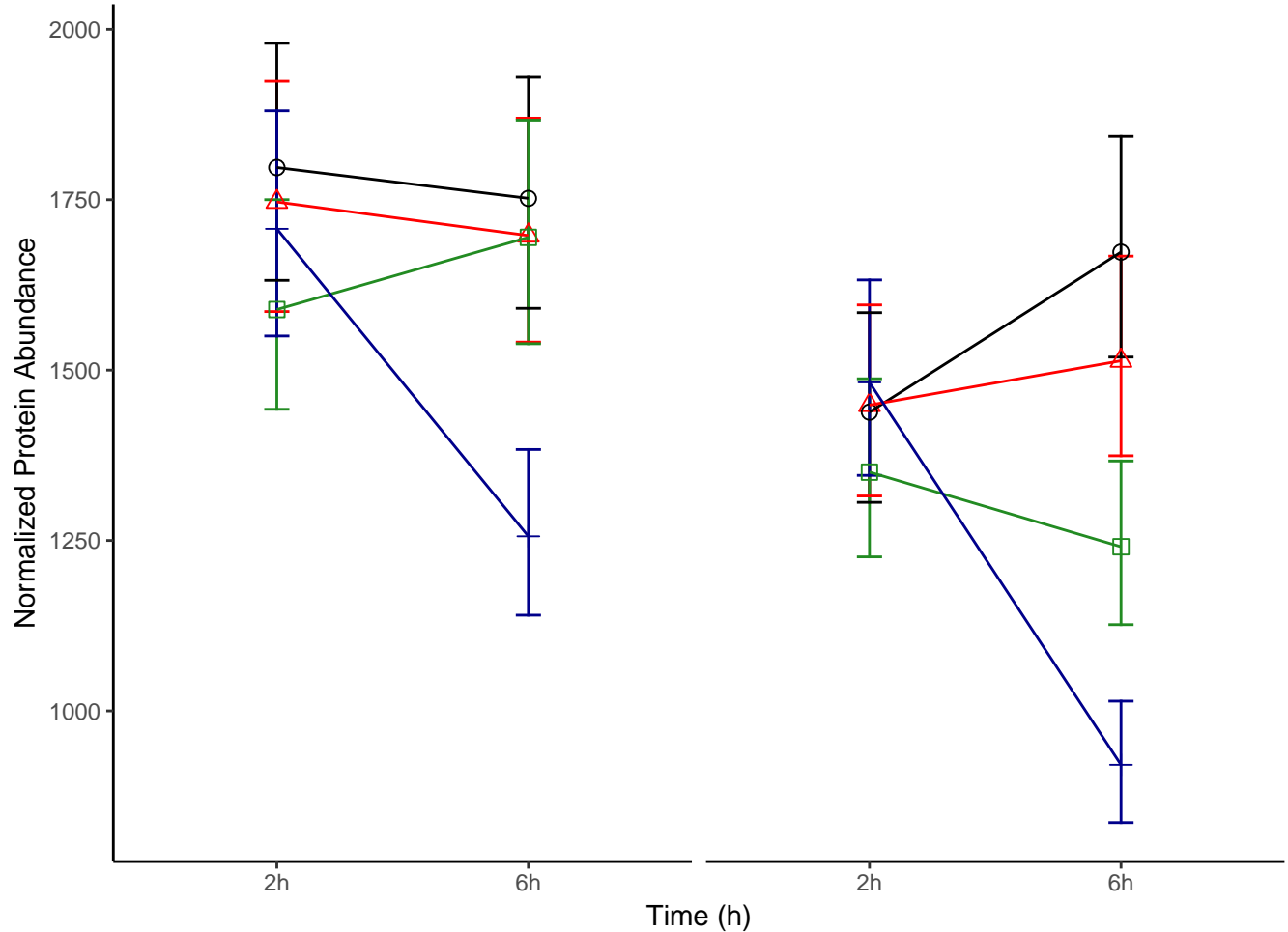


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1605\_STAAM

TSB

TSB-dex S-471

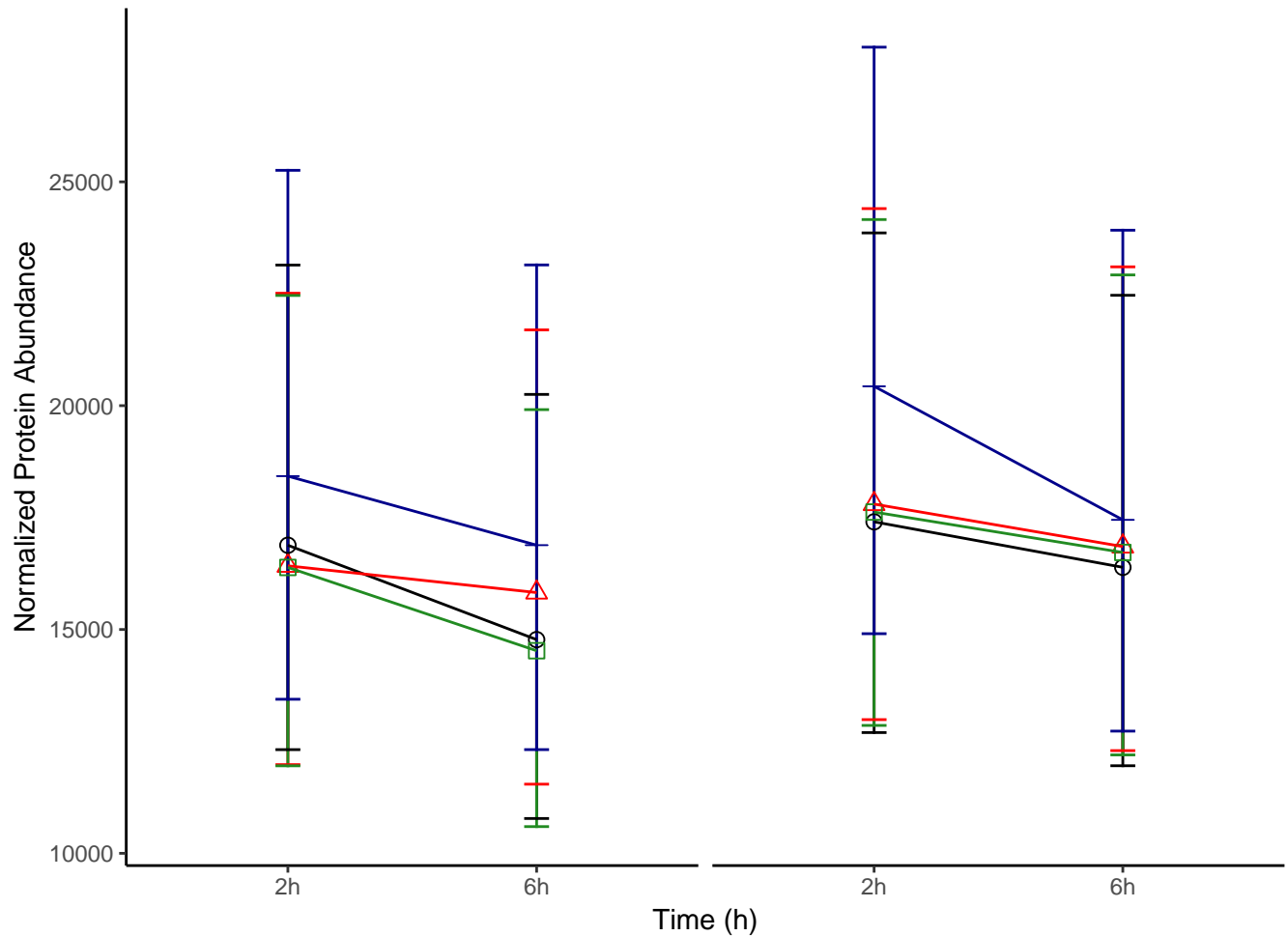


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1617\_STAAM

TSB

TSB-dex S-472



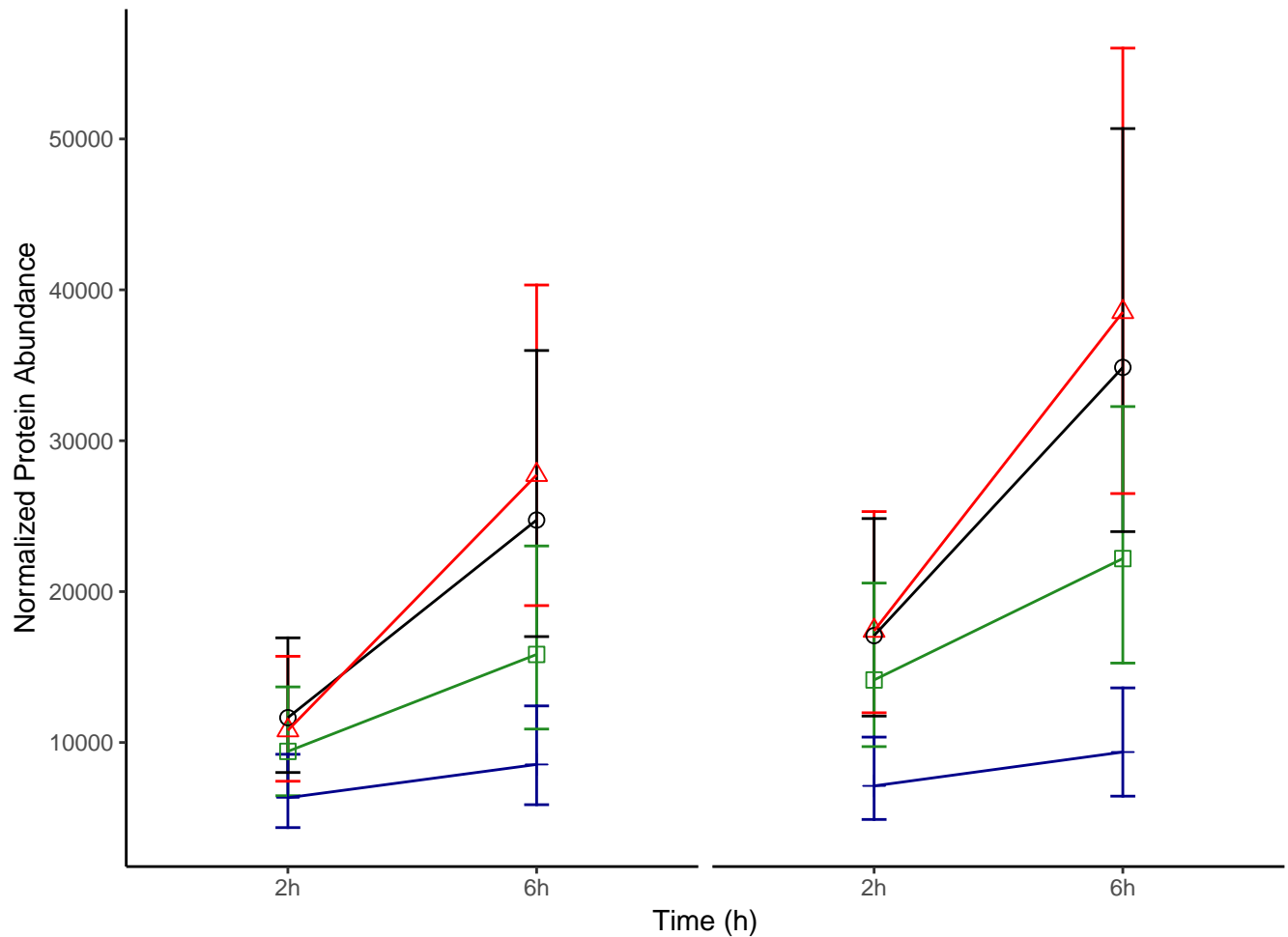
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# Y1625\_STAAM

TSB

TSB-dex S-473

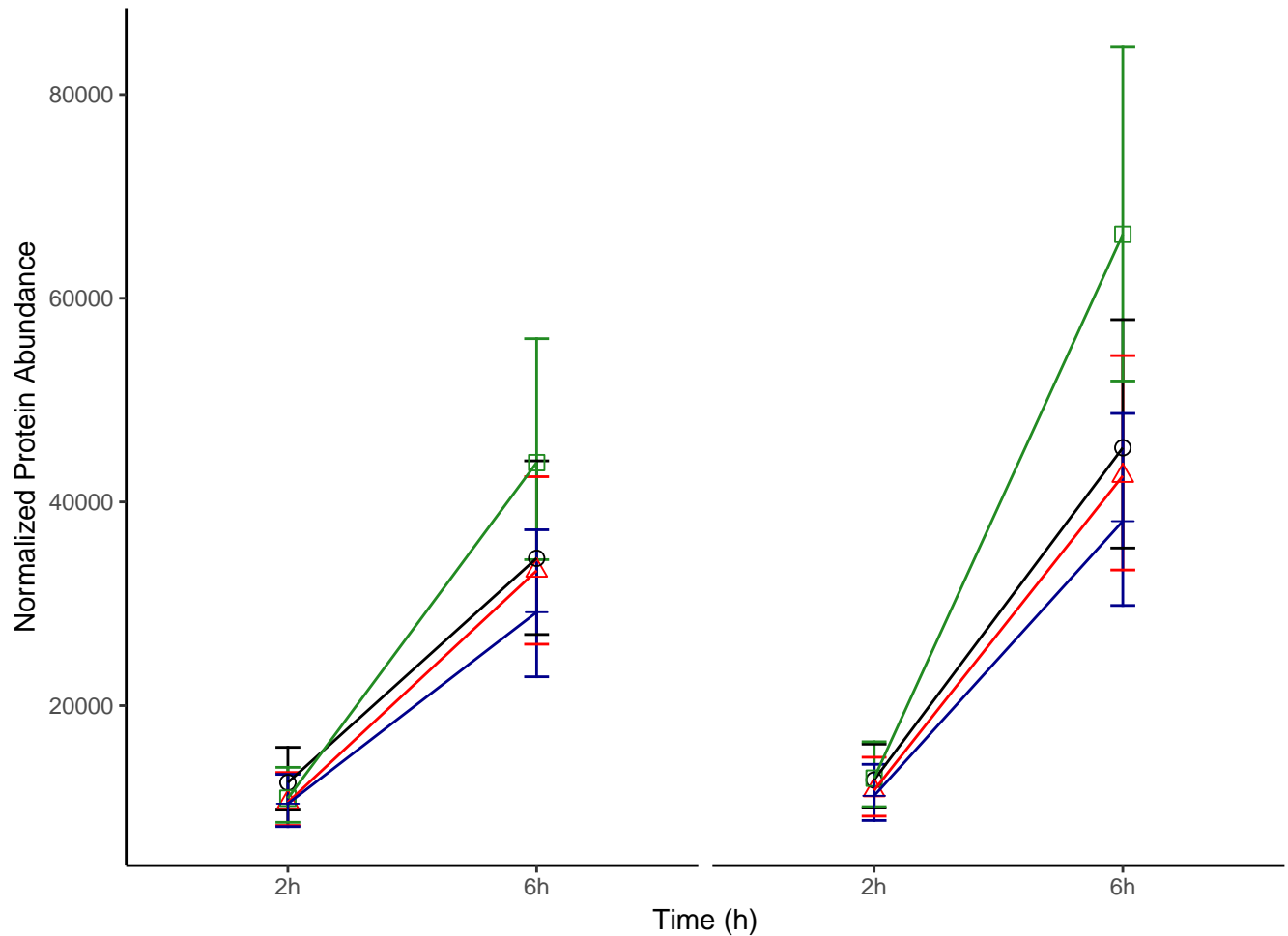


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1710\_STAAM

TSB

TSB-dex S-474



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1739\_STAAM

TSB

TSB-dex S-475

Normalized Protein Abundance

30000

20000

2h

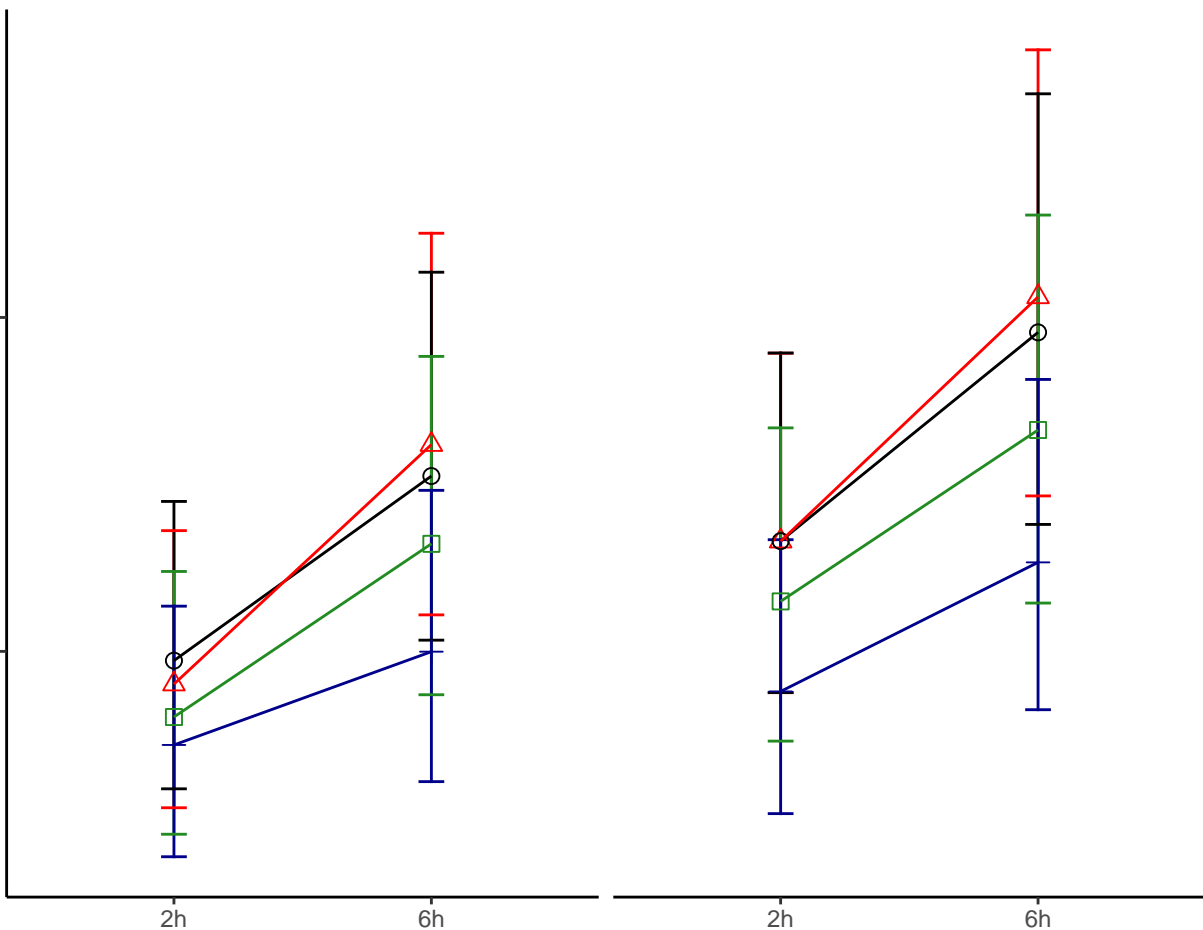
6h

Time (h)

2h

6h

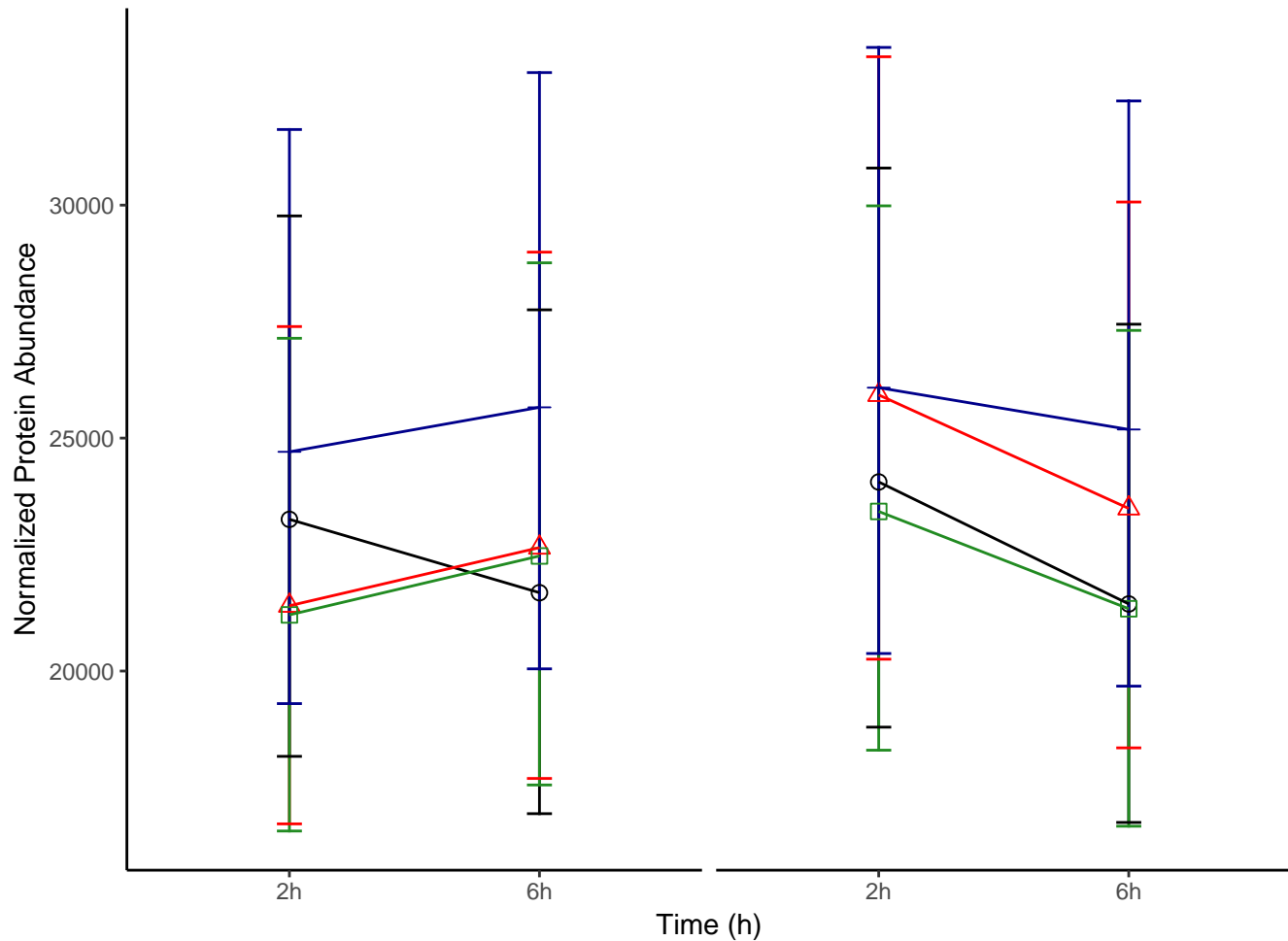
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y1845\_STAAM

TSB

TSB-dex S-476

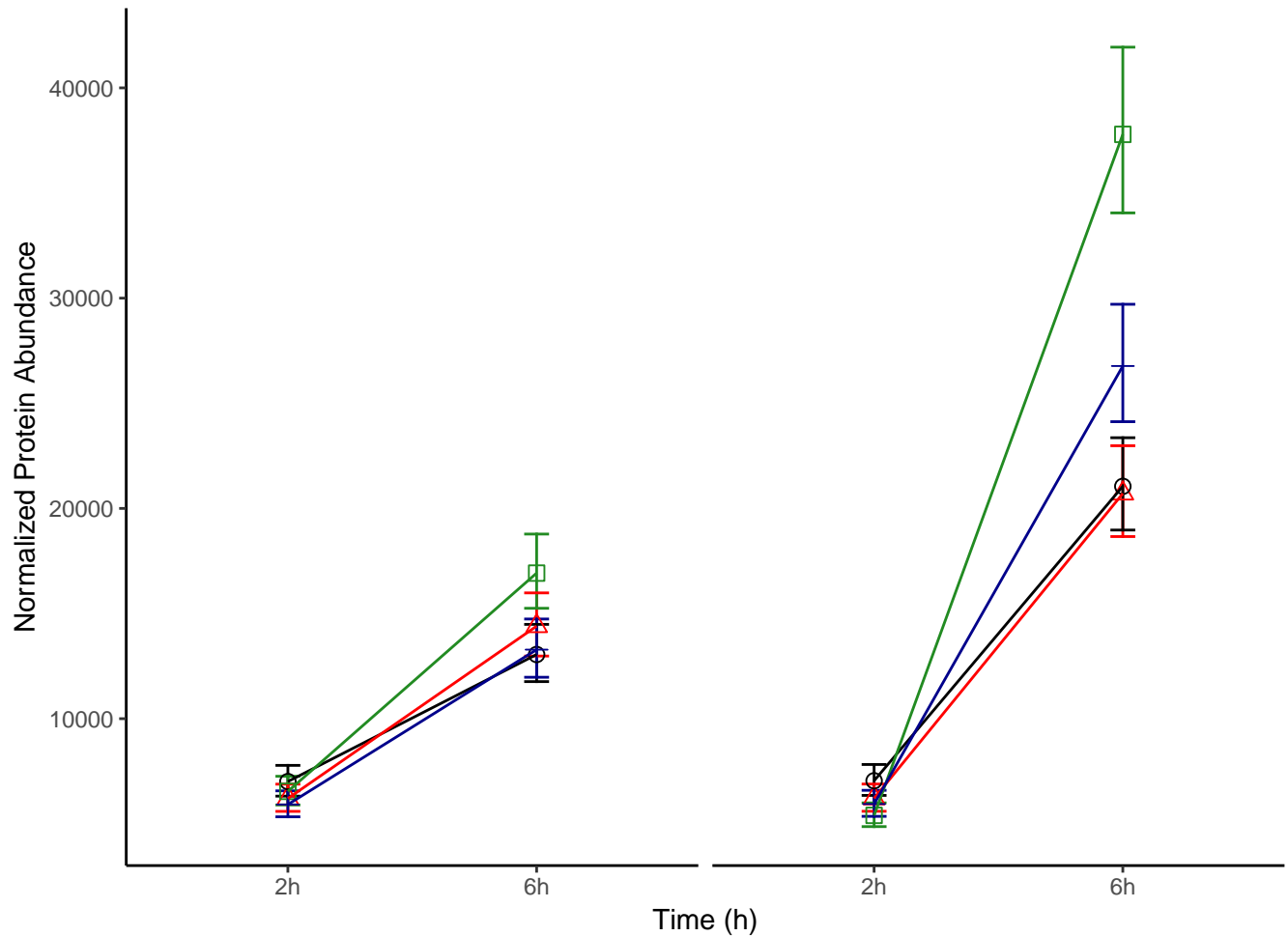


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1866\_STAAM

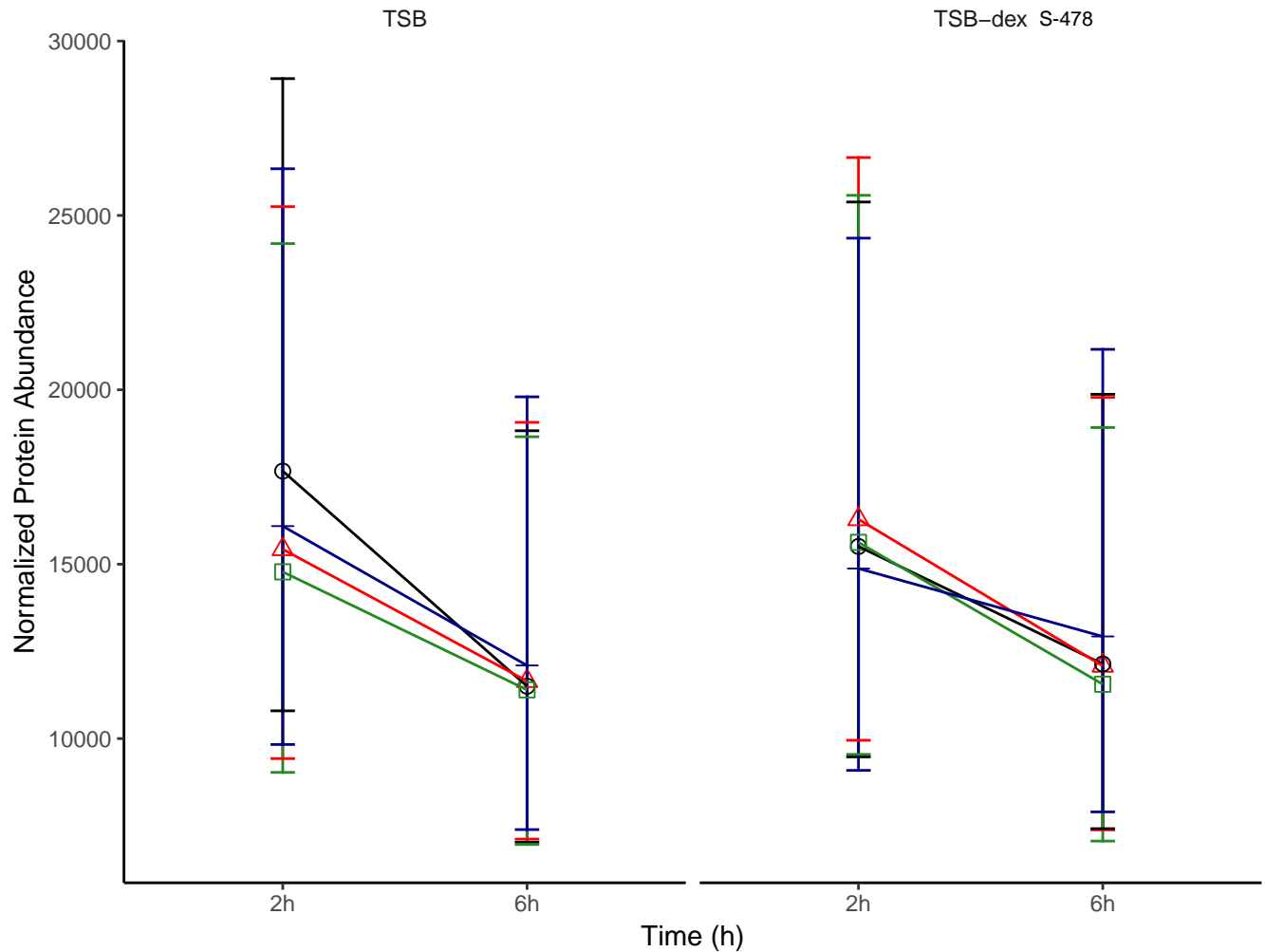
TSB

TSB-dex S-477



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1880\_STAAM

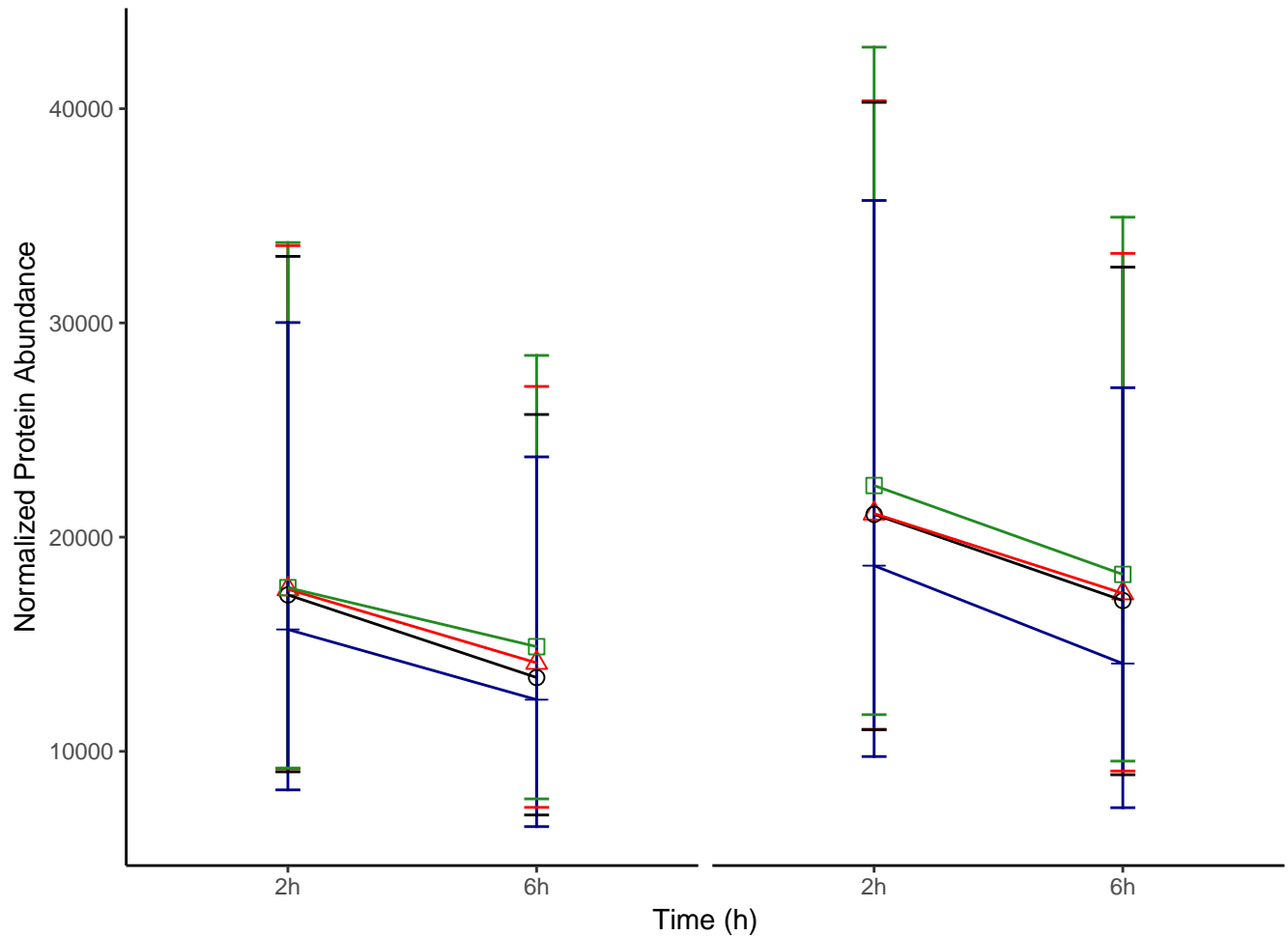


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1921\_STAAM

TSB

TSB-dex S-479

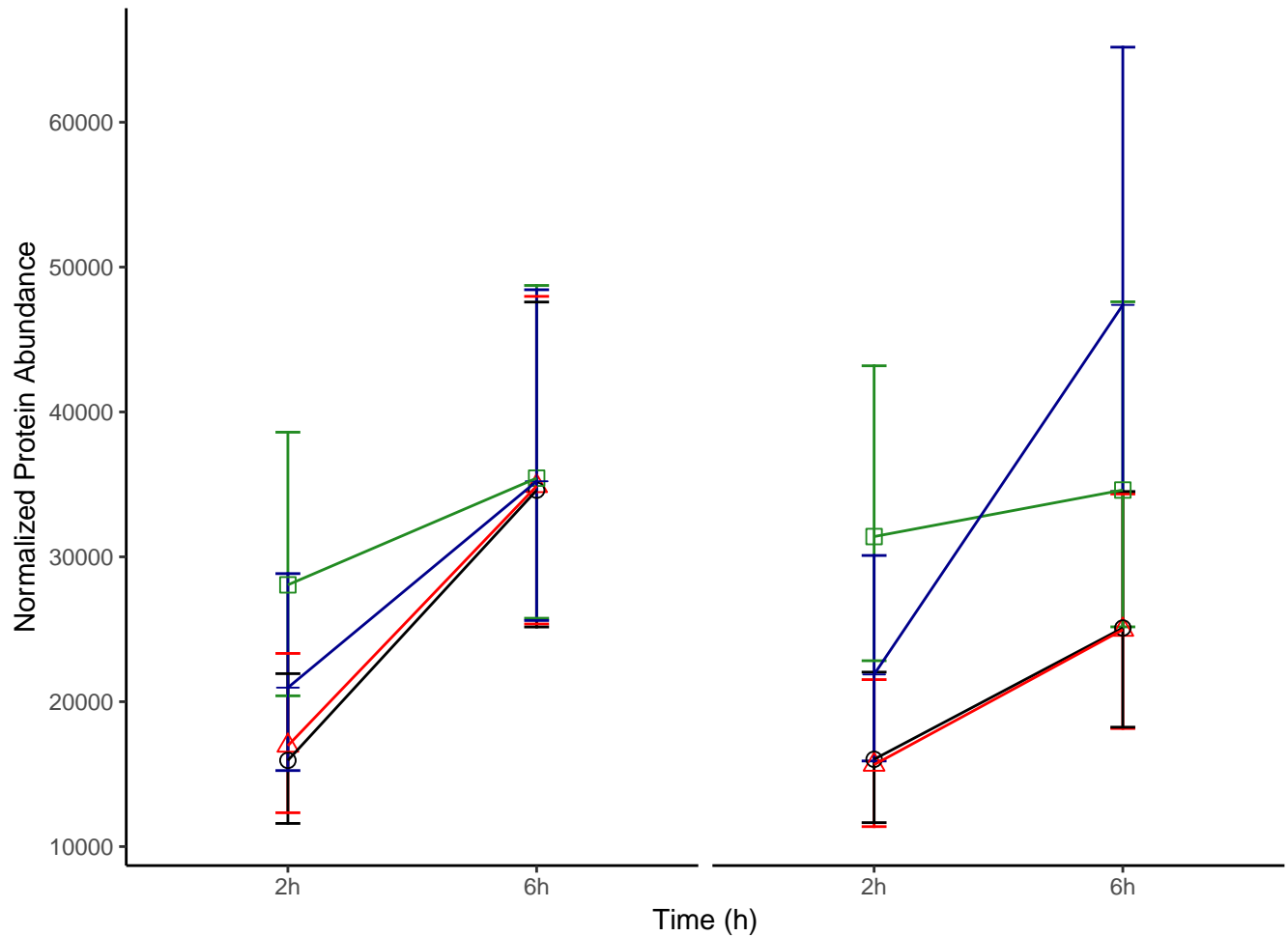


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2173\_STAAM

TSB

TSB-dex S-480



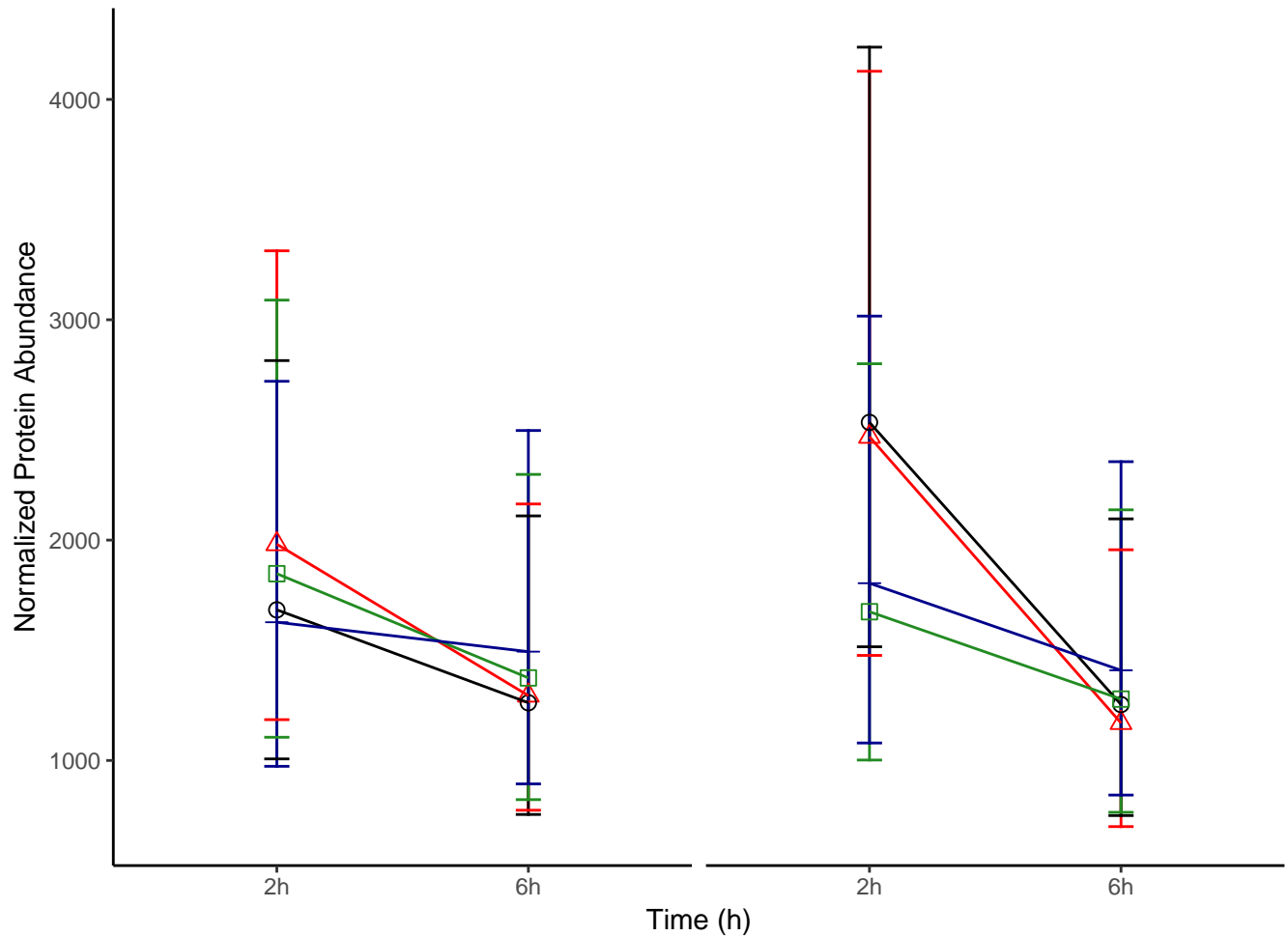
- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# Y2204\_STAAM

TSB

TSB-dex S-481

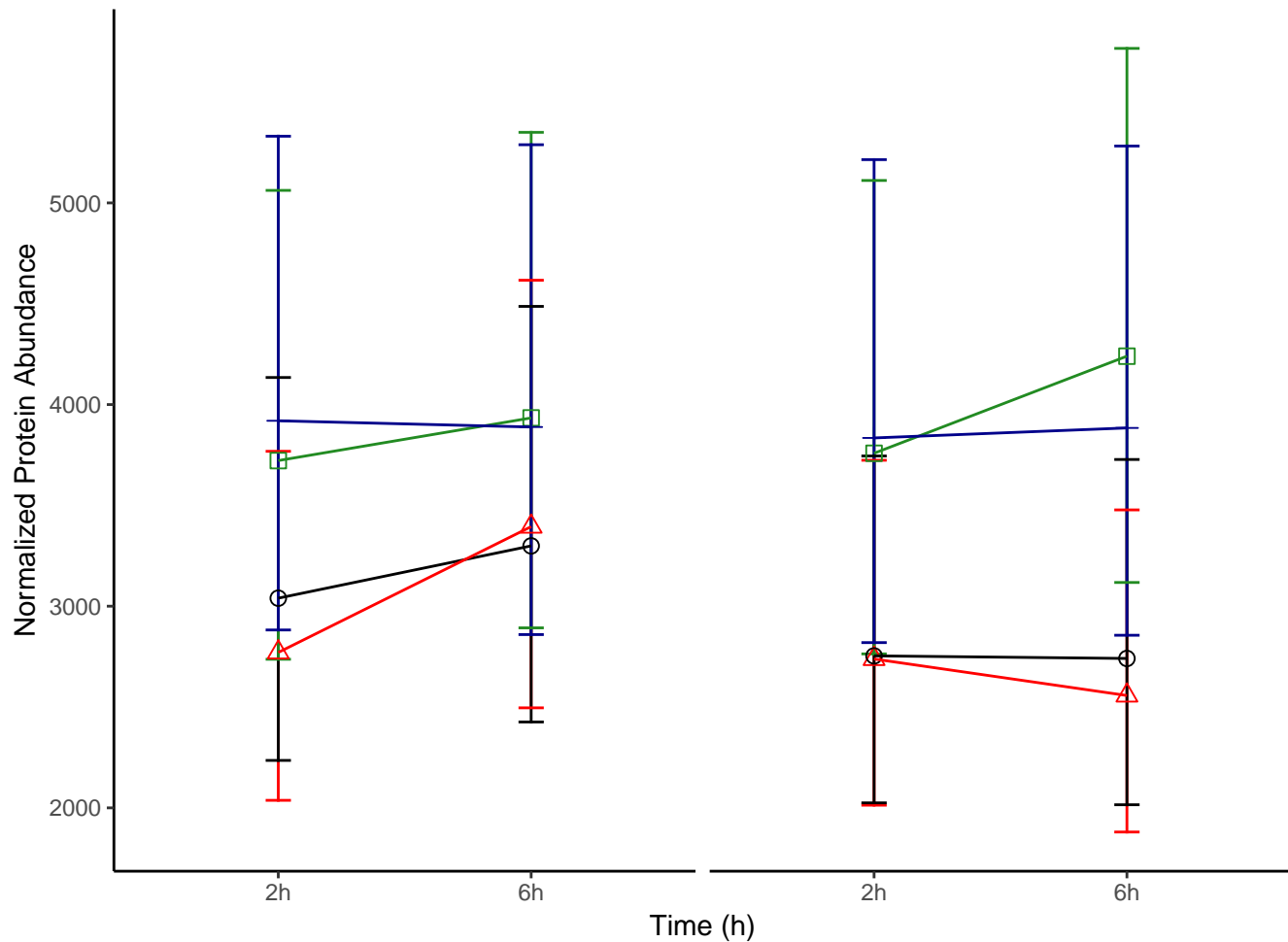


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2265\_STAAM

TSB

TSB-dex S-482

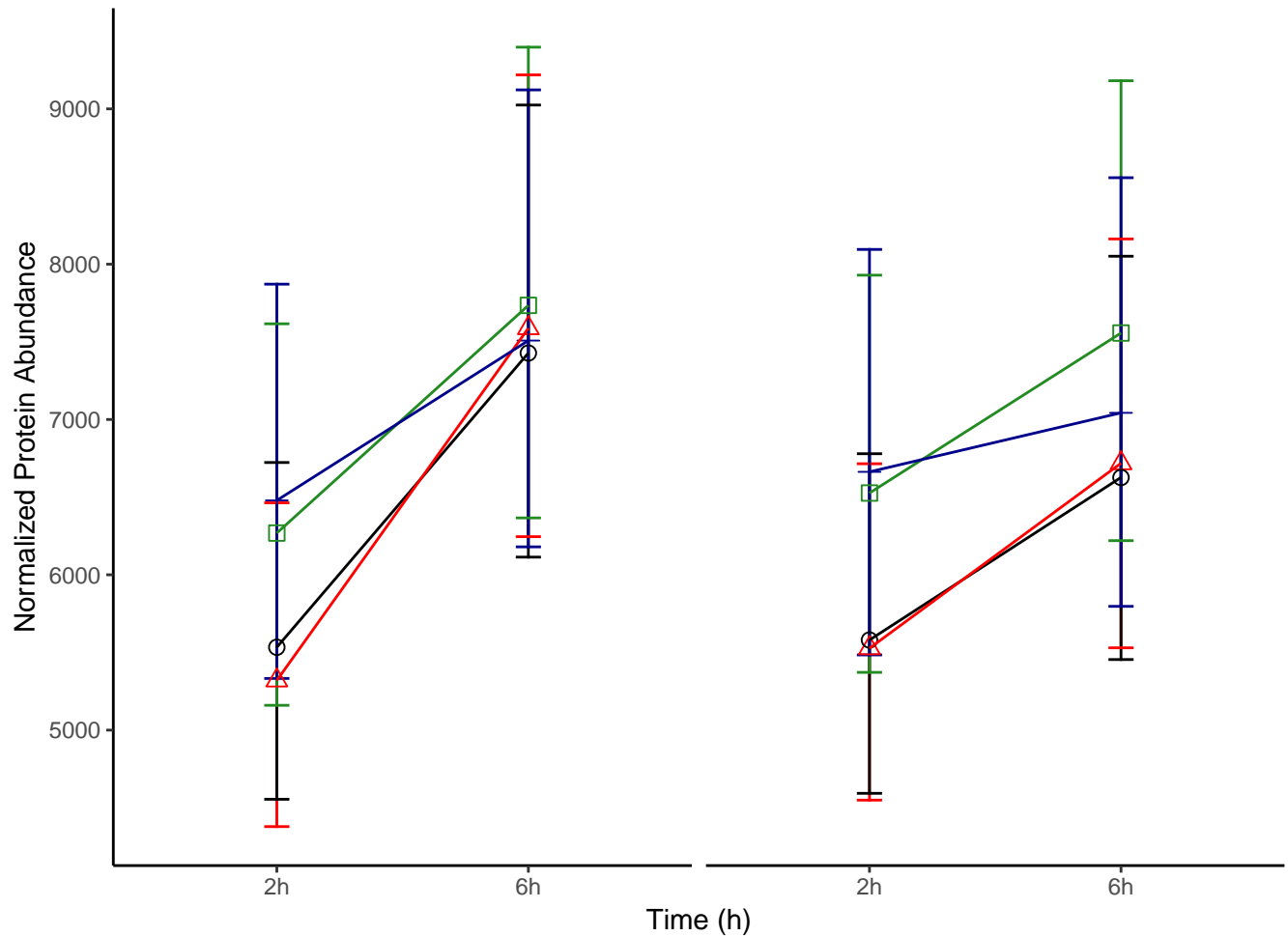


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2305\_STAAM

TSB

TSB-dex S-483

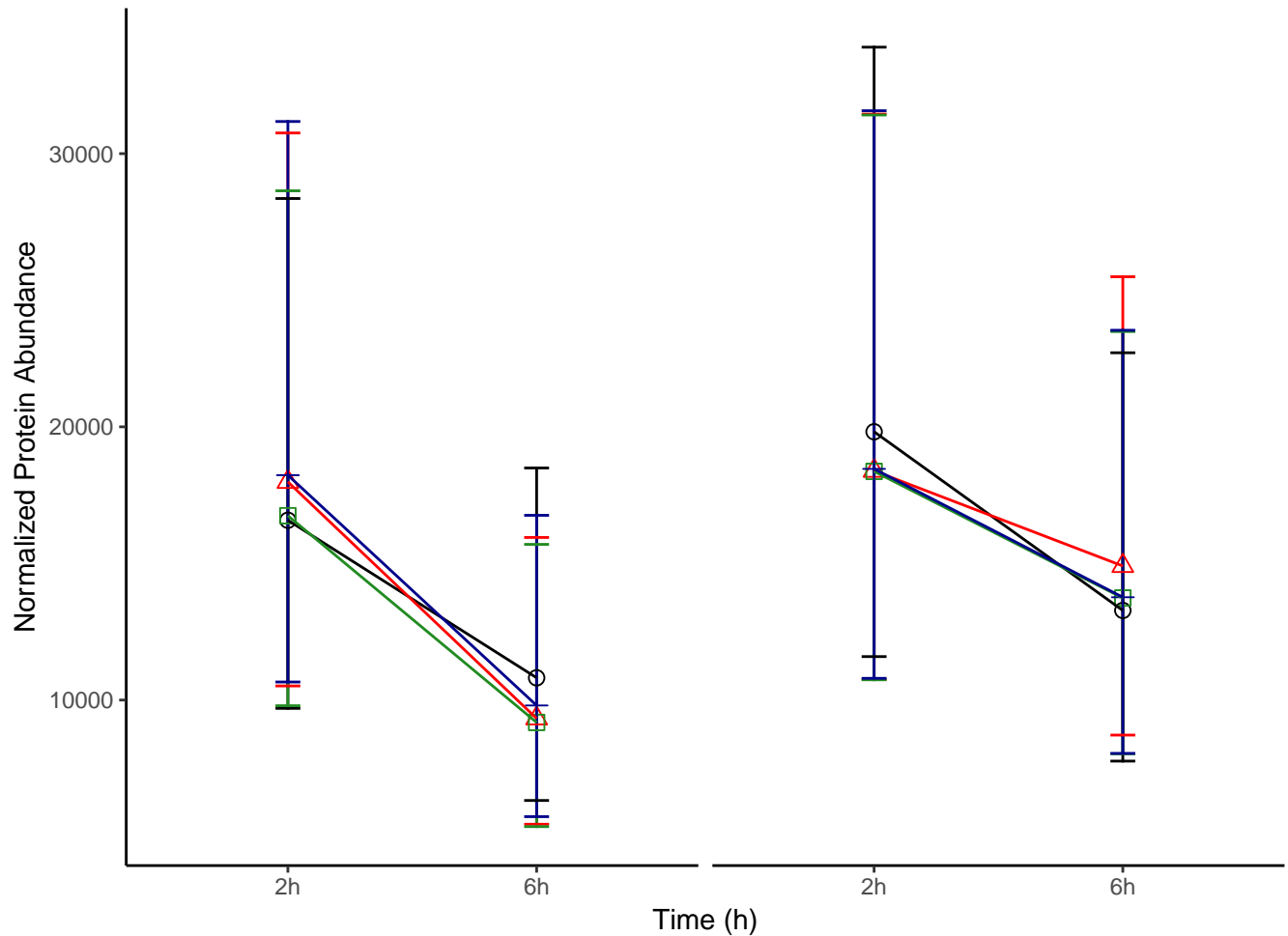


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2363\_STAAM

TSB

TSB-dex S-484

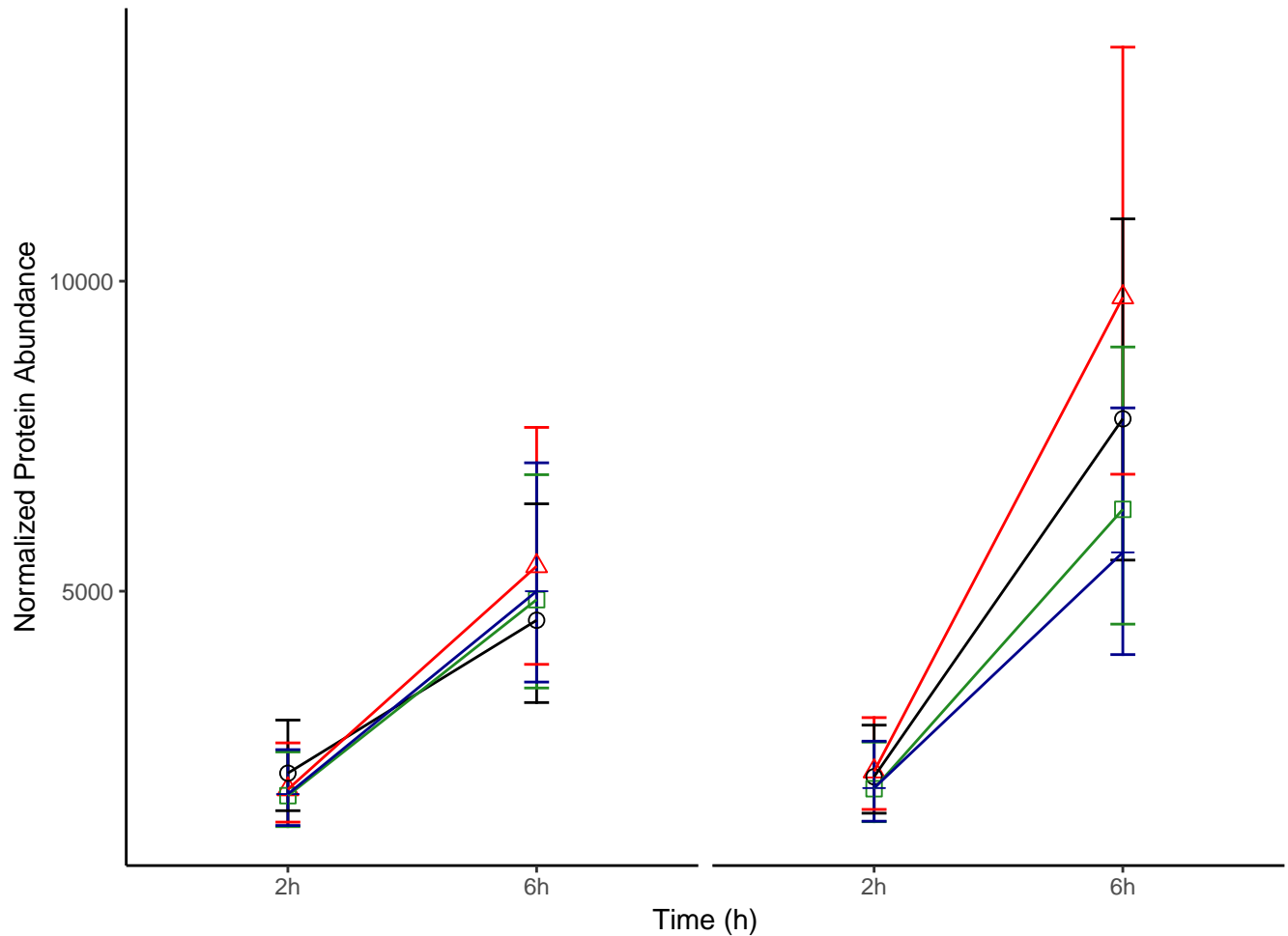


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2368\_STAAM

TSB

TSB-dex S-485

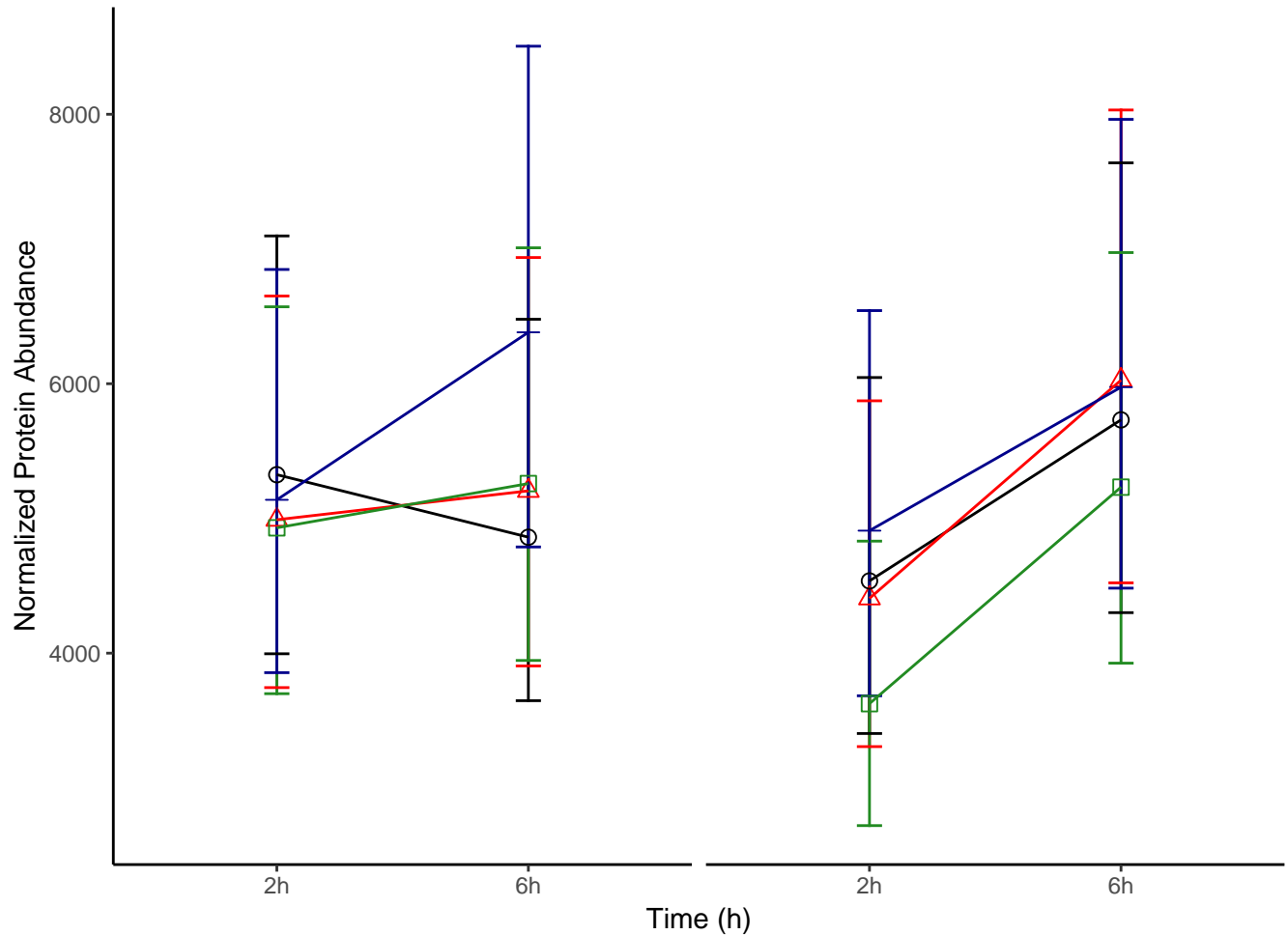


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2478\_STAAM

TSB

TSB-dex S-486

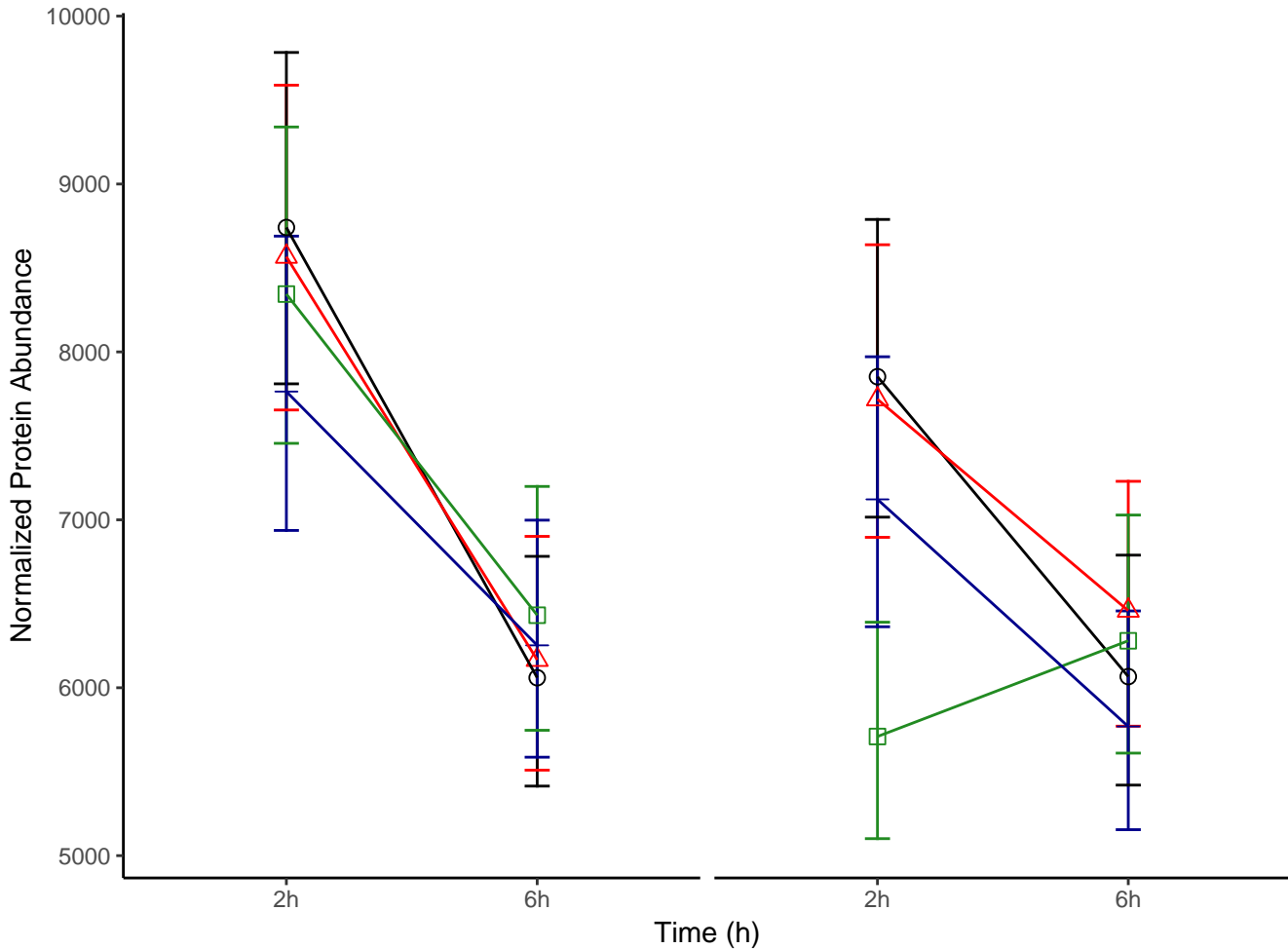


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2523\_STAAM

TSB

TSB-dex S-487

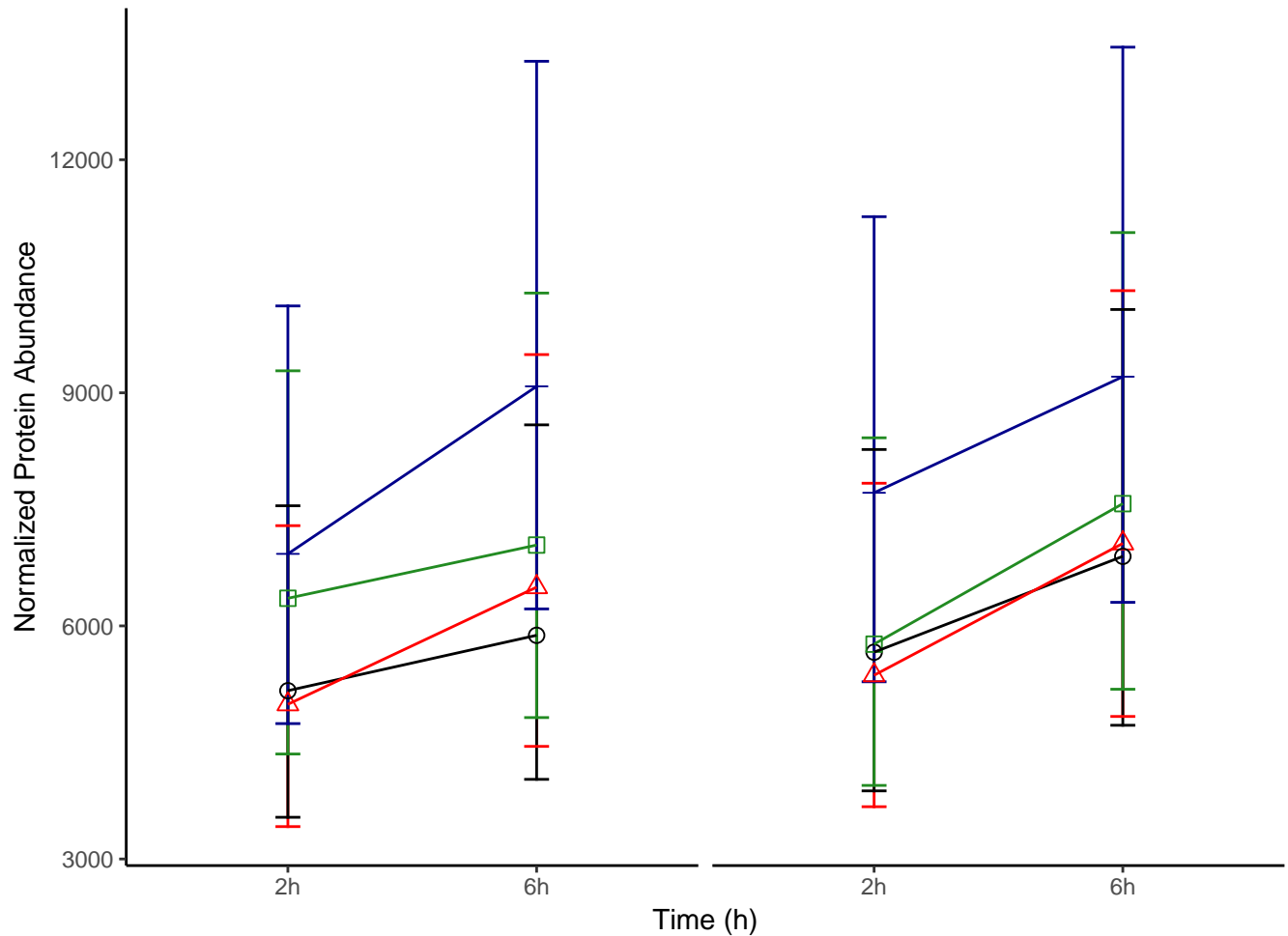


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2573\_STAAM

TSB

TSB-dex S-488



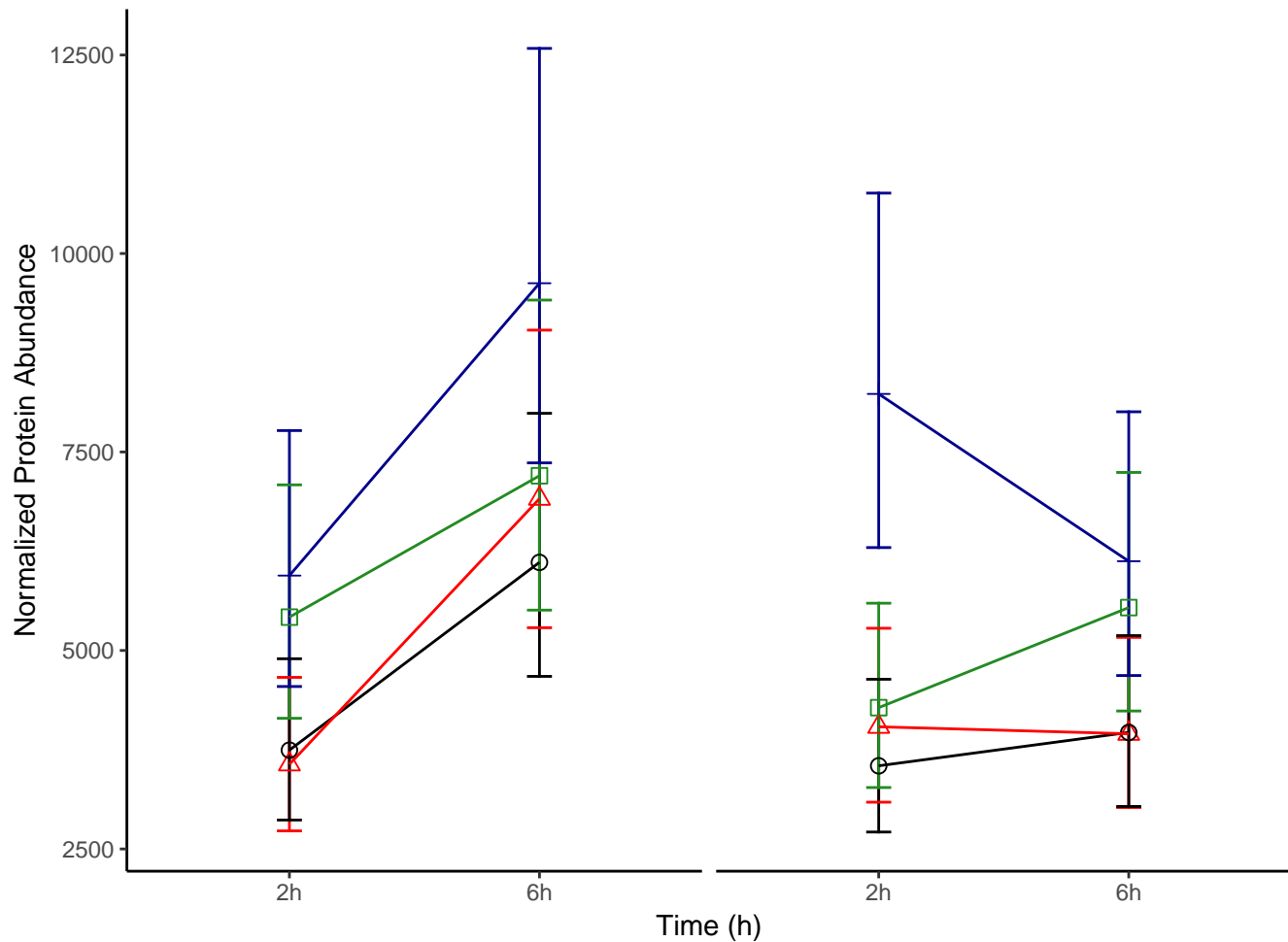
- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# Y2578\_STAAM

TSB

TSB-dex S-489

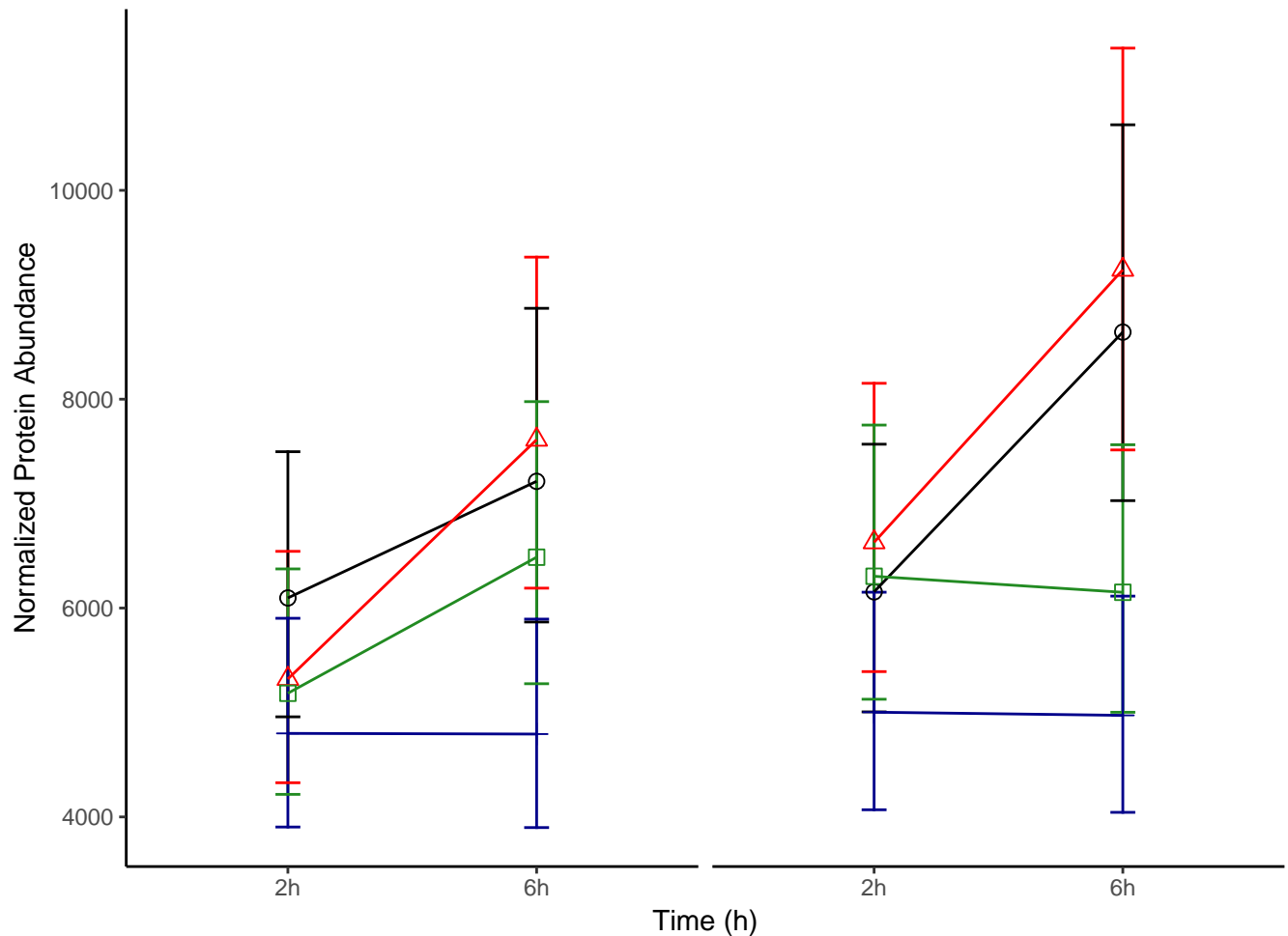


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2581\_STAAM

TSB

TSB-dex S-490

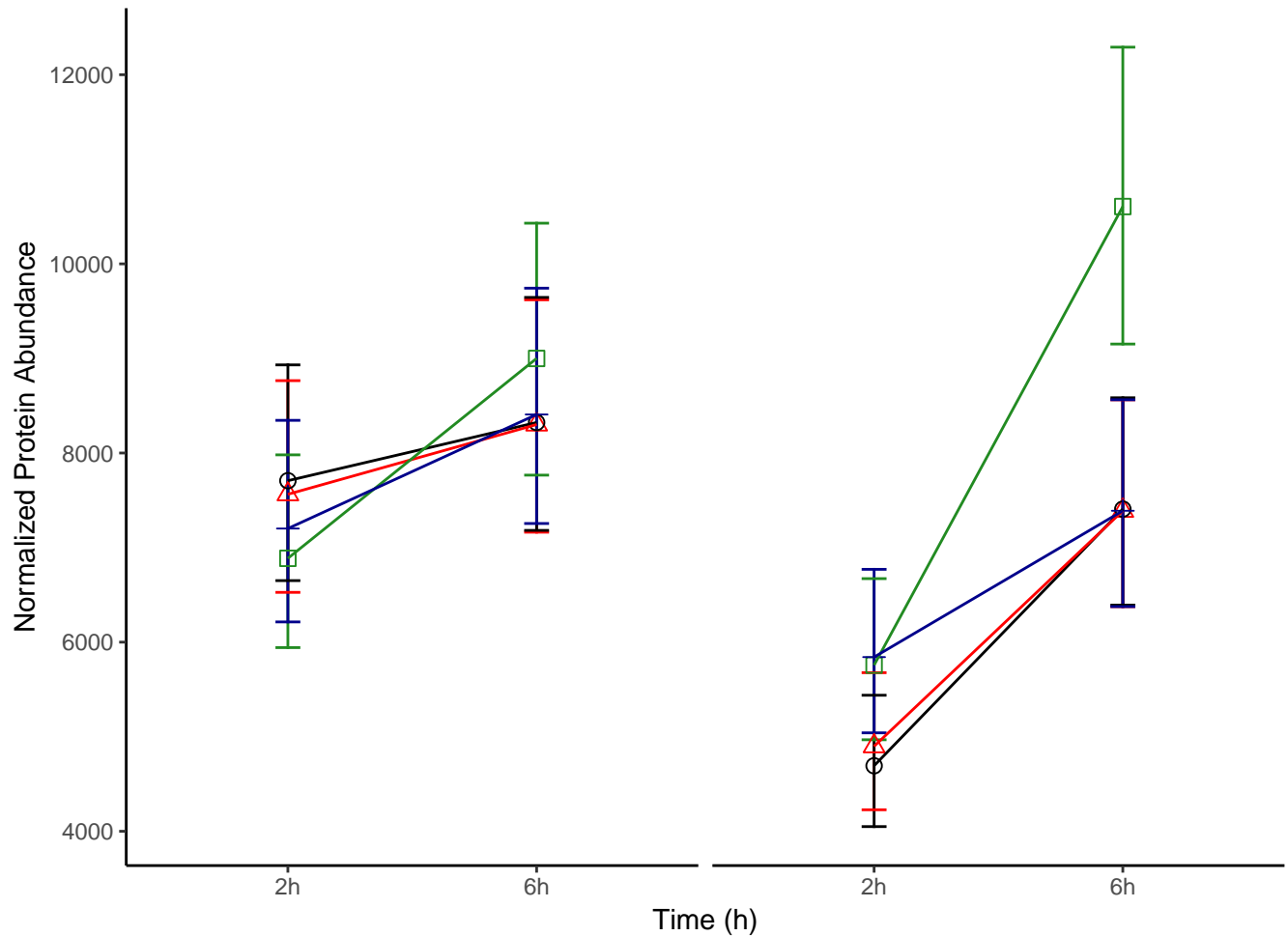


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2627\_STAAM

TSB

TSB-dex S-491

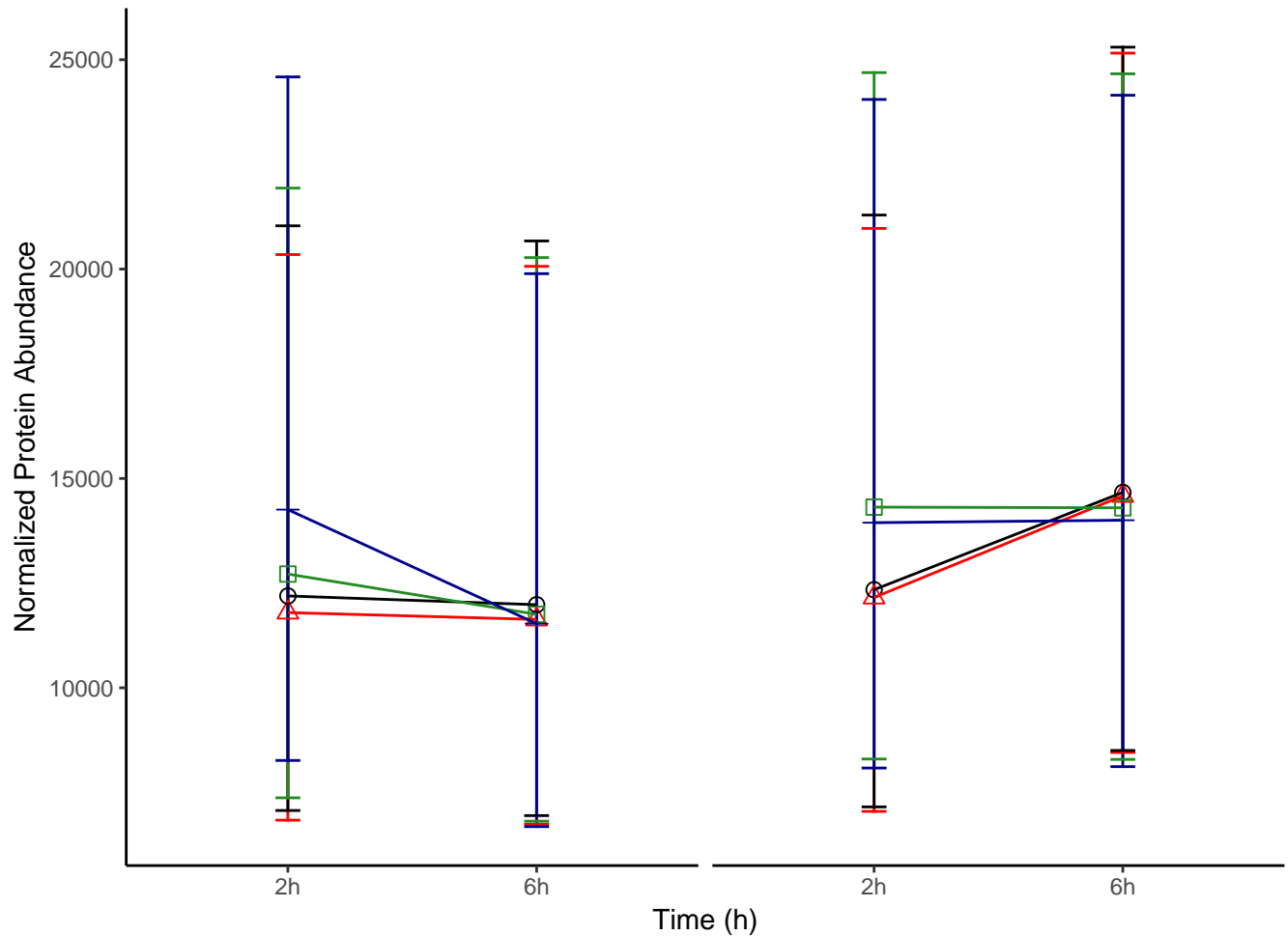


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2687\_STAAM

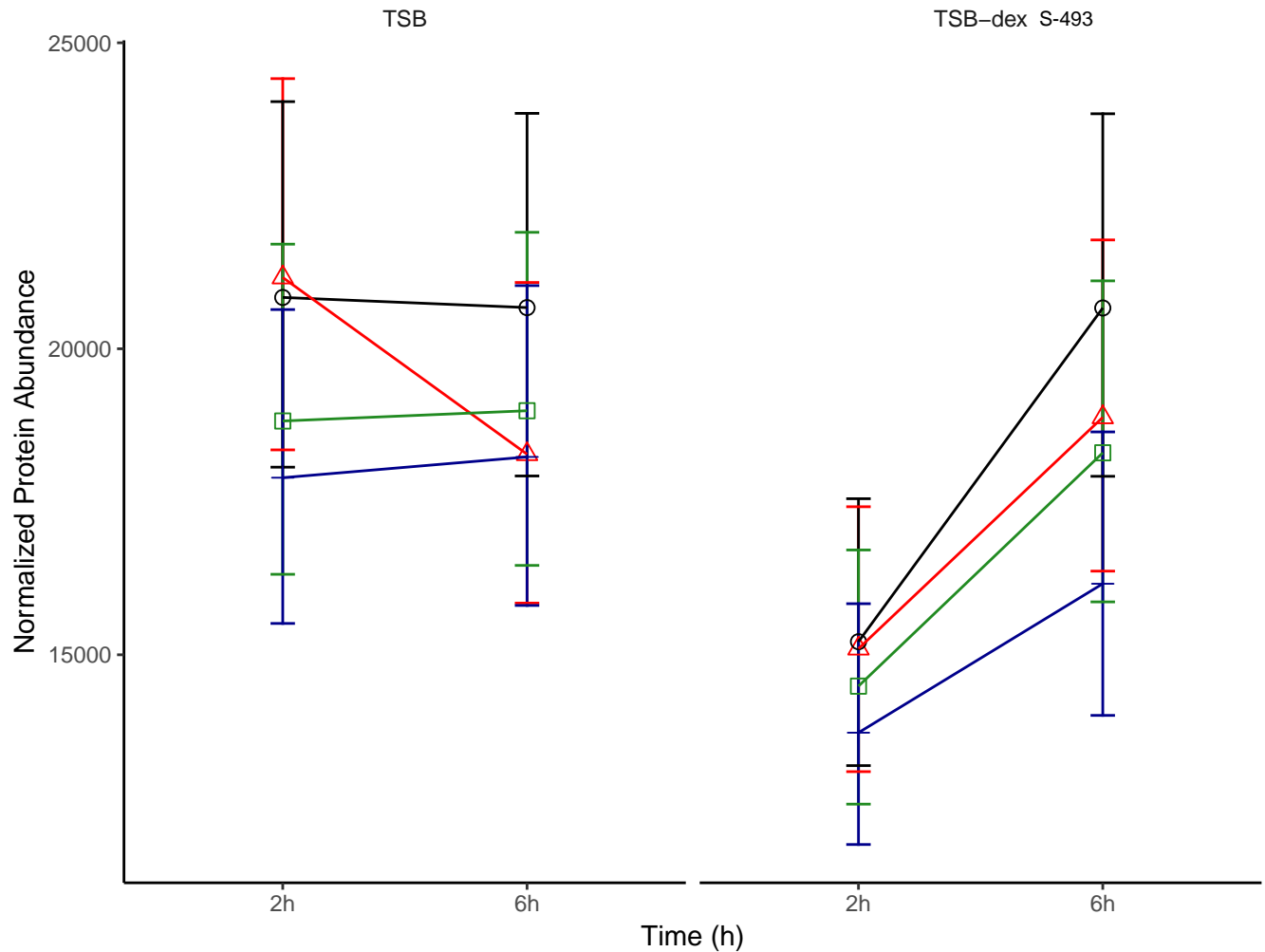
TSB

TSB-dex S-492



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2689\_STAAM

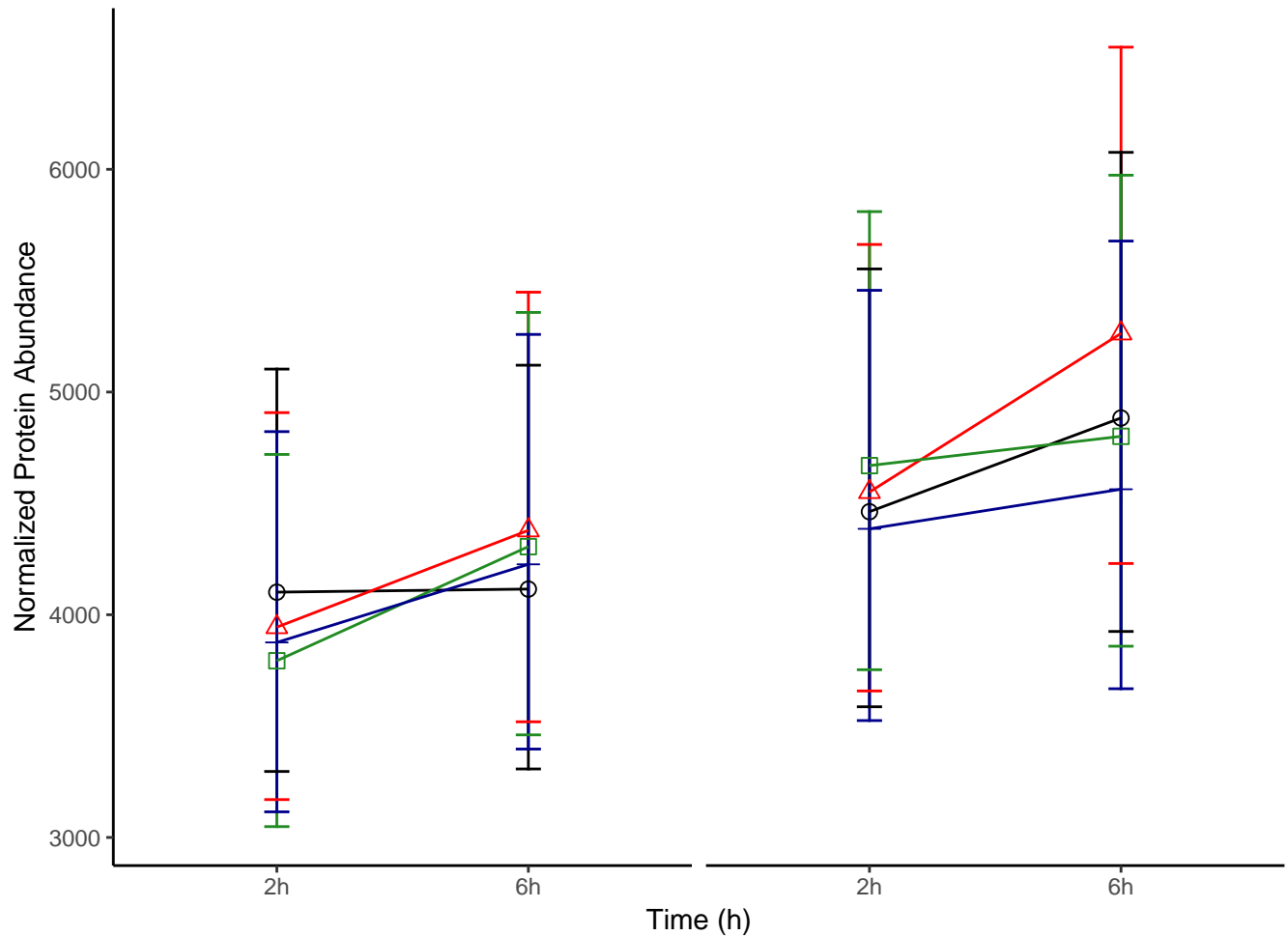


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y385\_STAAM

TSB

TSB-dex S-494

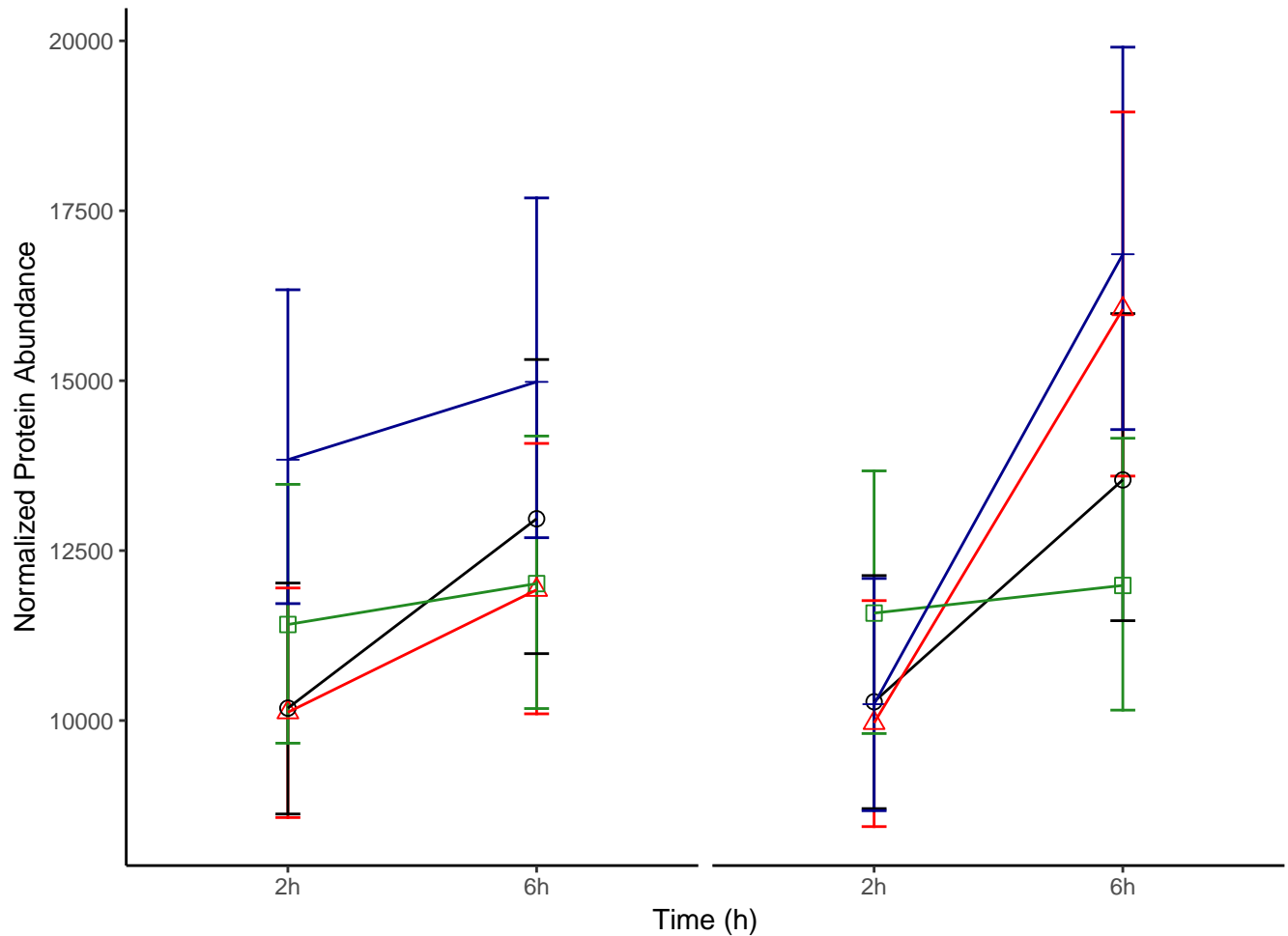


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y437\_STAAM

TSB

TSB-dex S-495

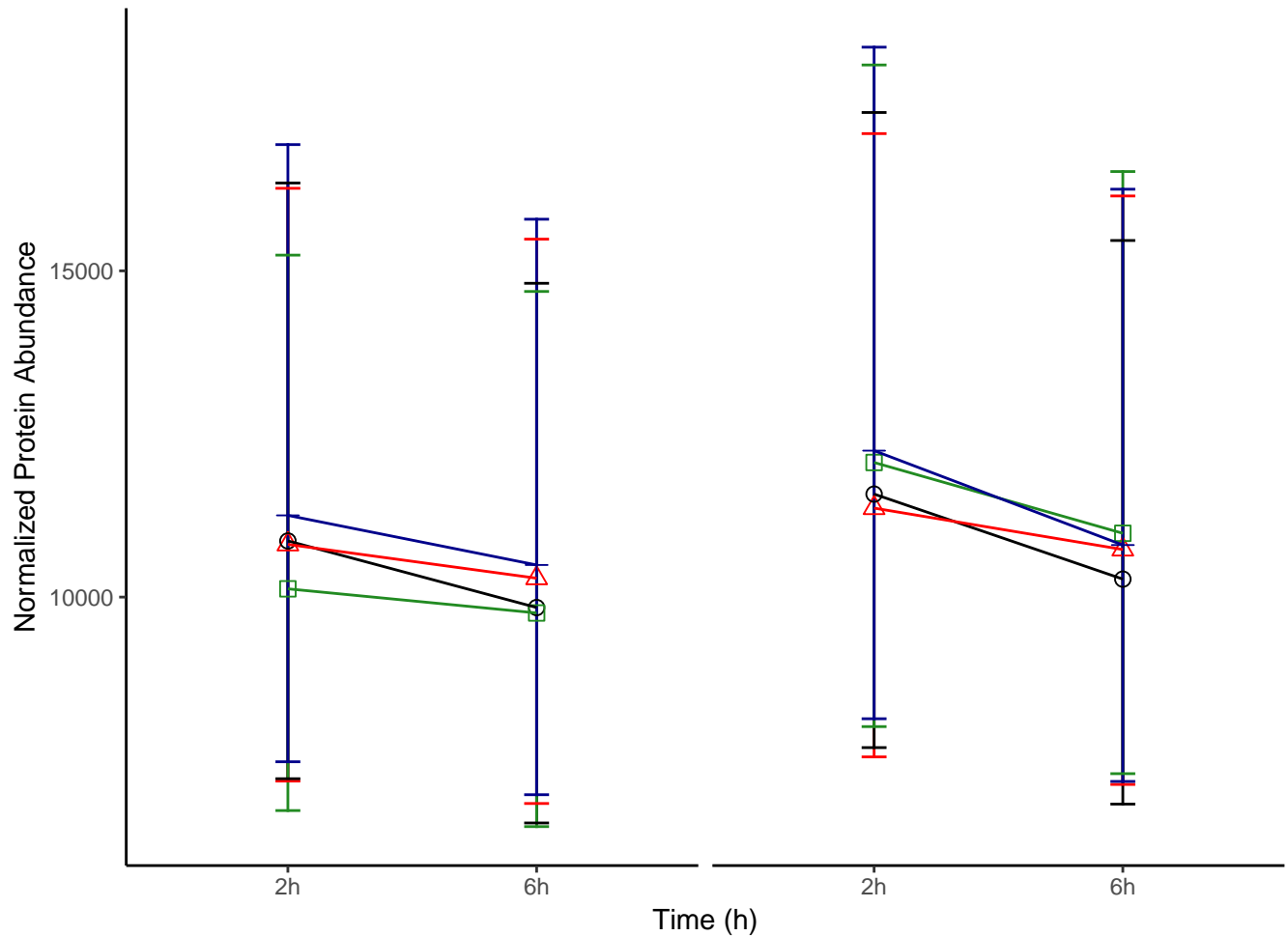


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y479\_STAAM

TSB

TSB-dex S-496



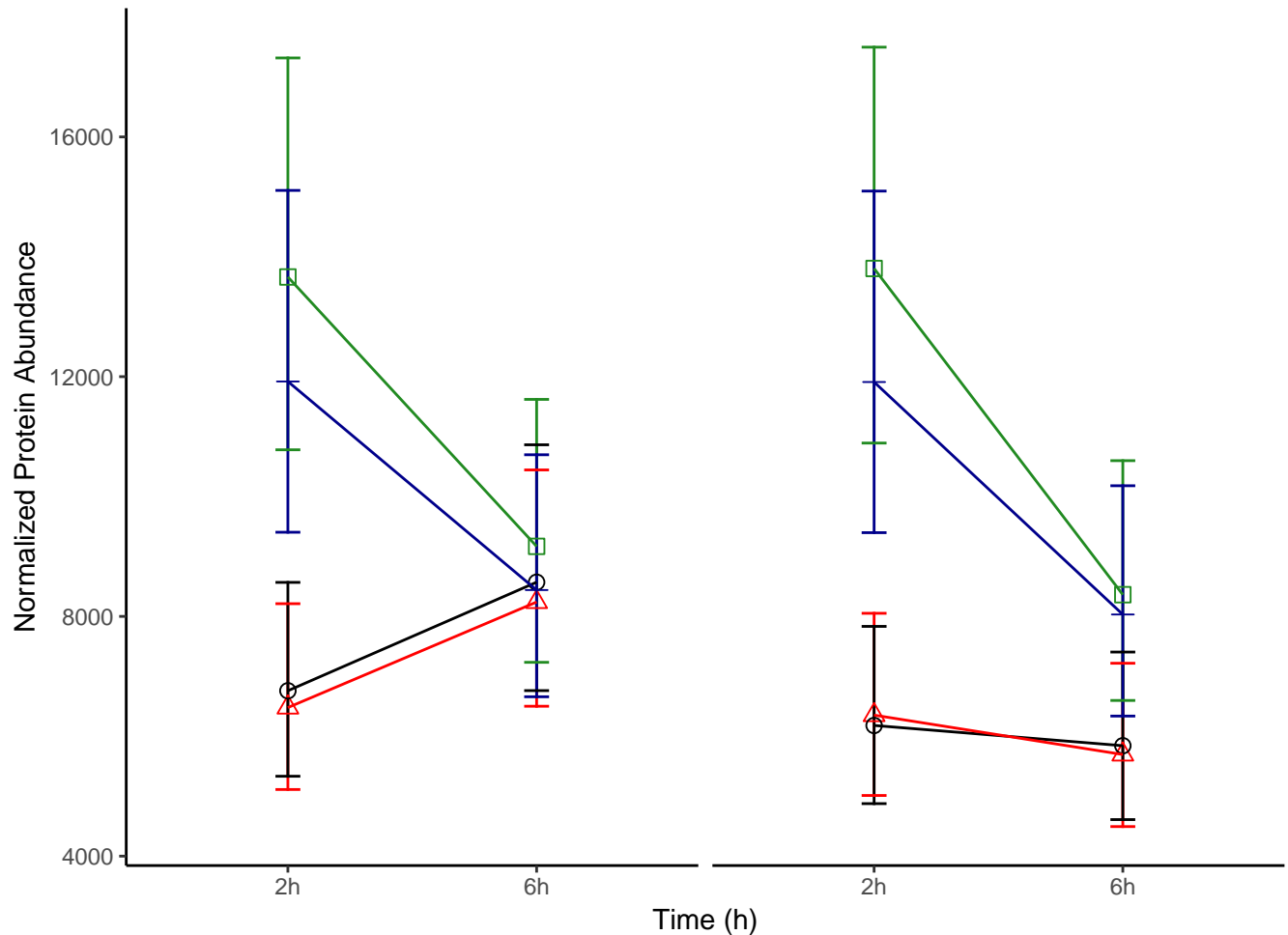
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y553\_STAAM

TSB

TSB-dex S-497

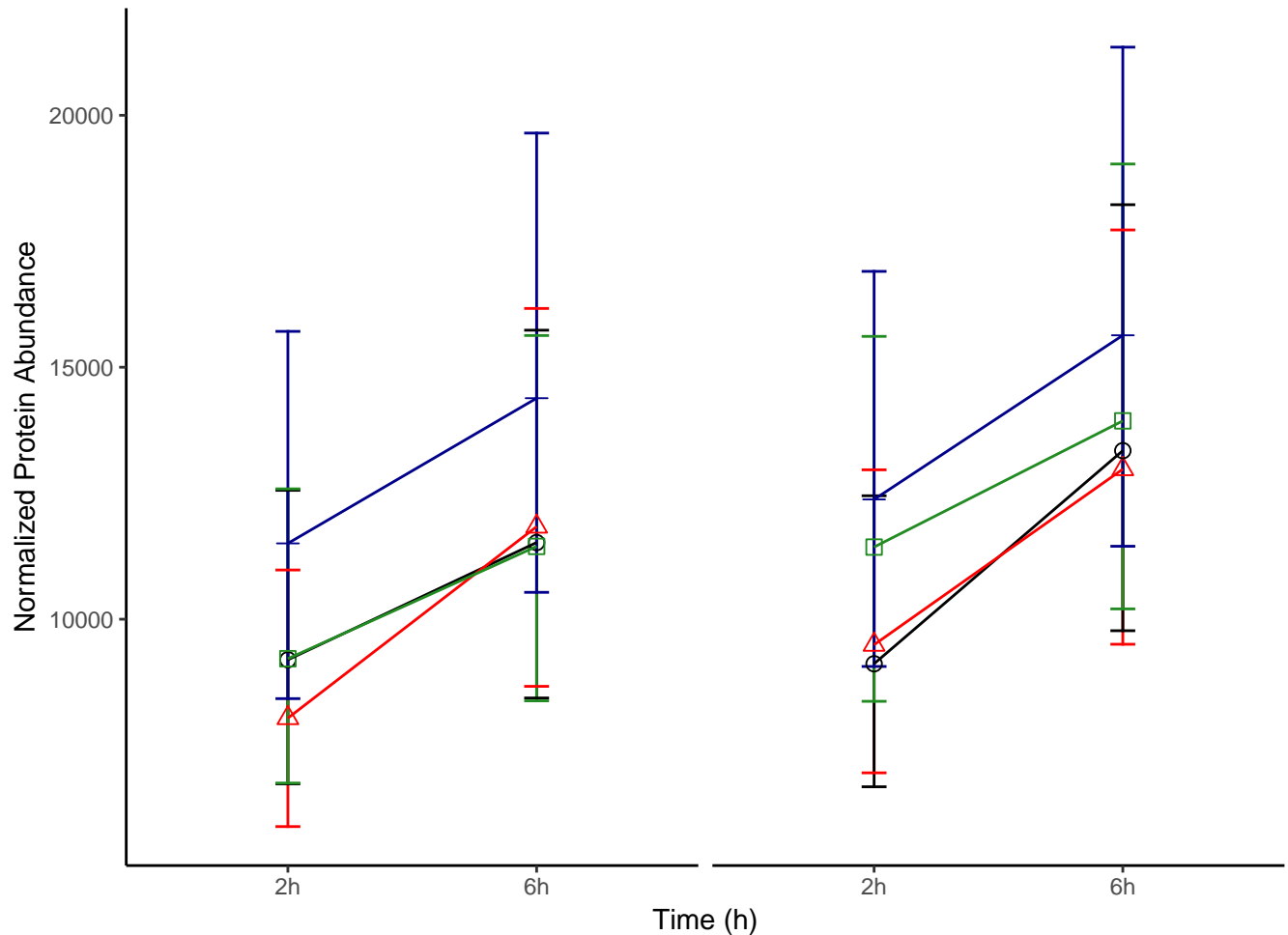


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# Y587\_STAAM

TSB

TSB-dex S-498

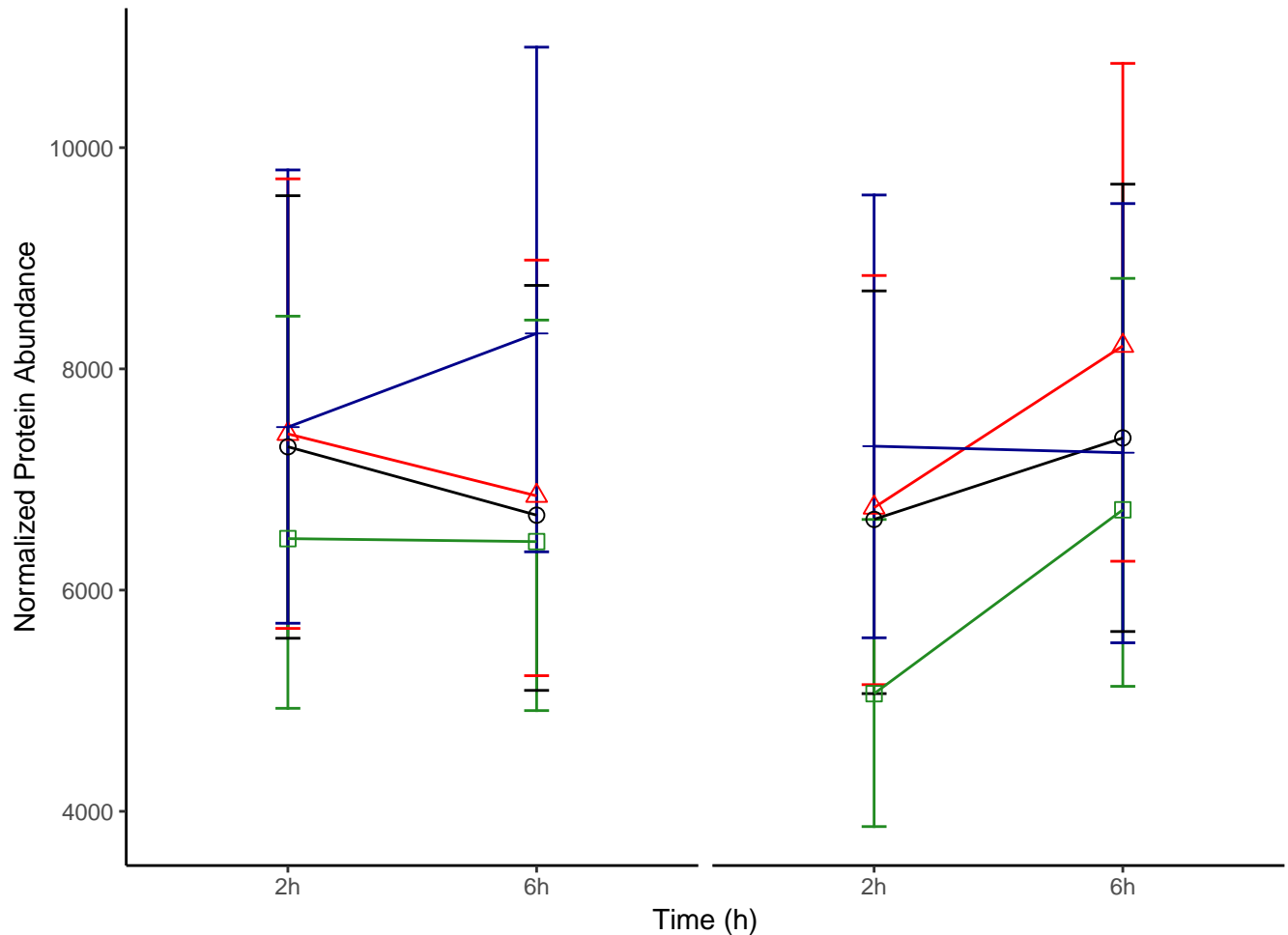


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y669\_STAAM

TSB

TSB-dex S-499

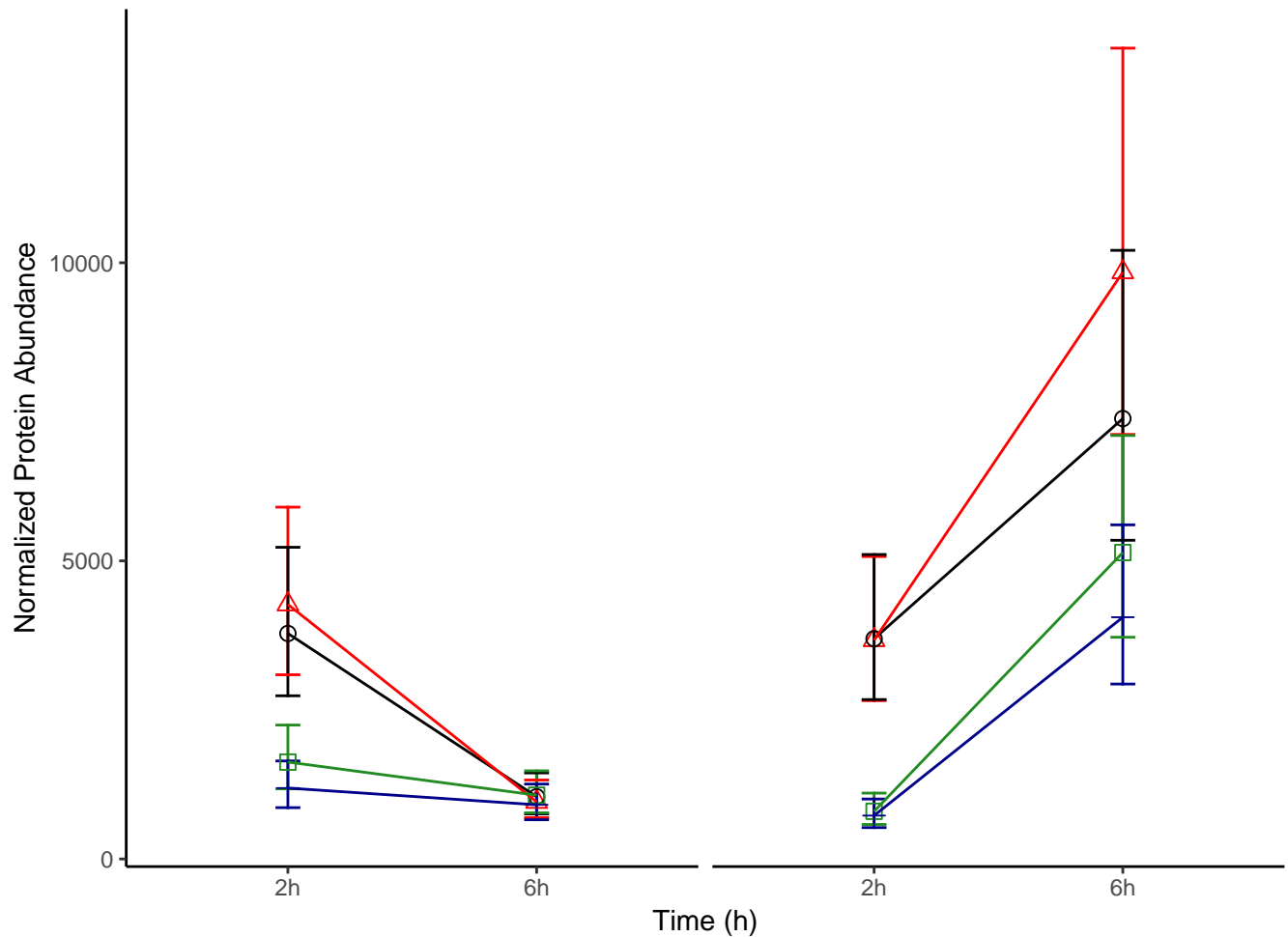


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y752\_STAAM

TSB

TSB-dex S-500

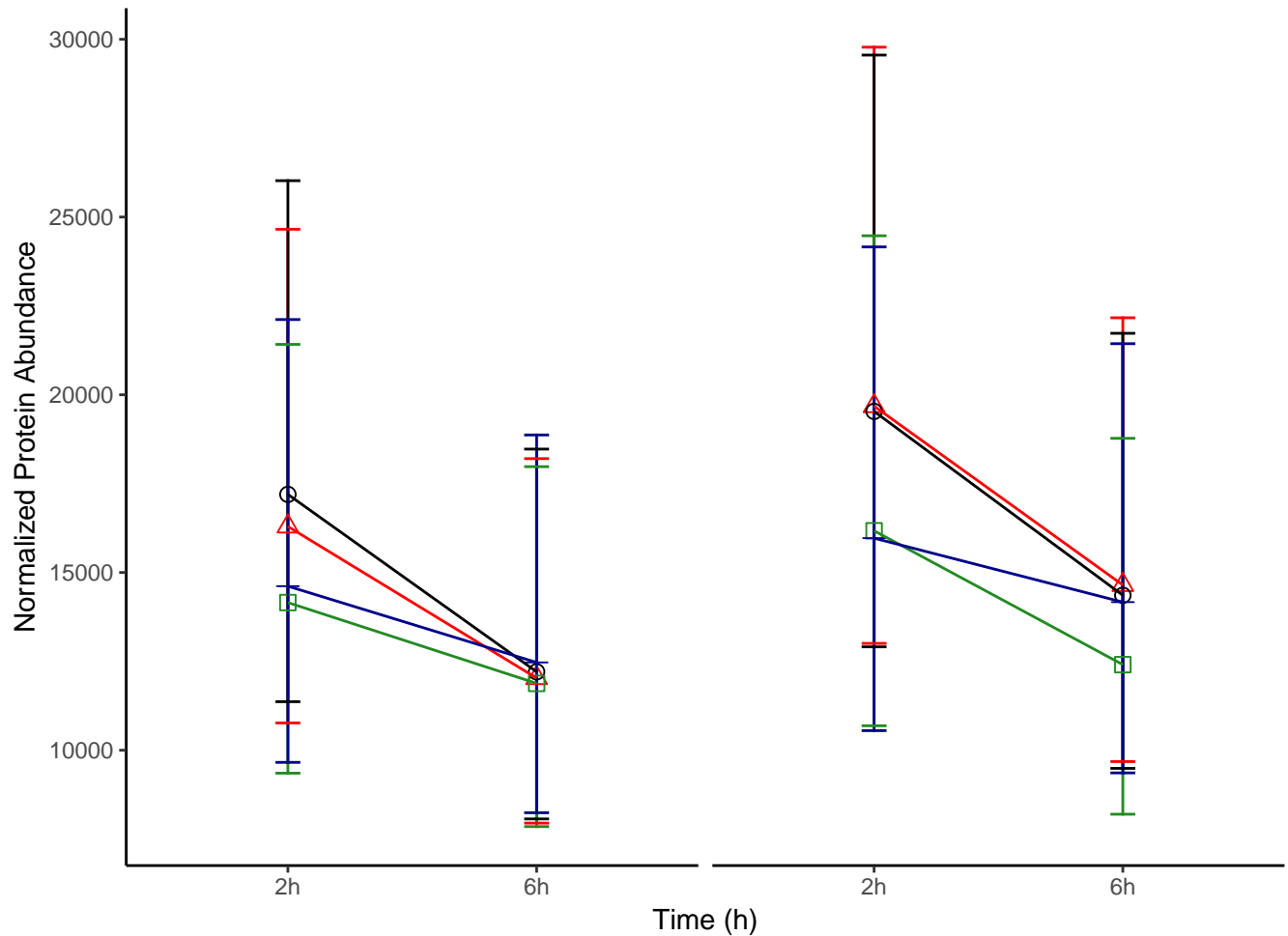


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y765\_STAAM

TSB

TSB-dex S-501

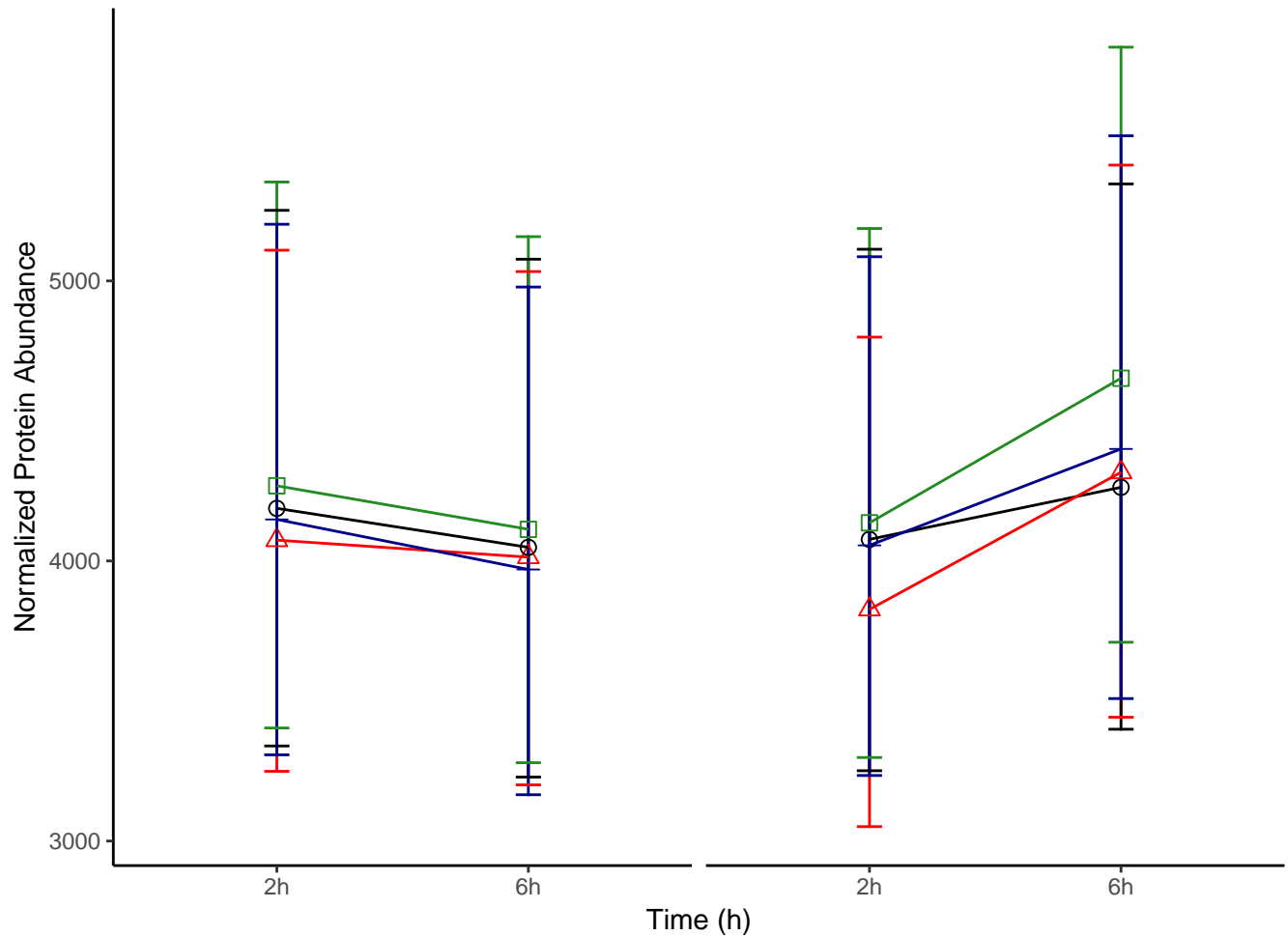


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y769\_STAAM

TSB

TSB-dex S-502

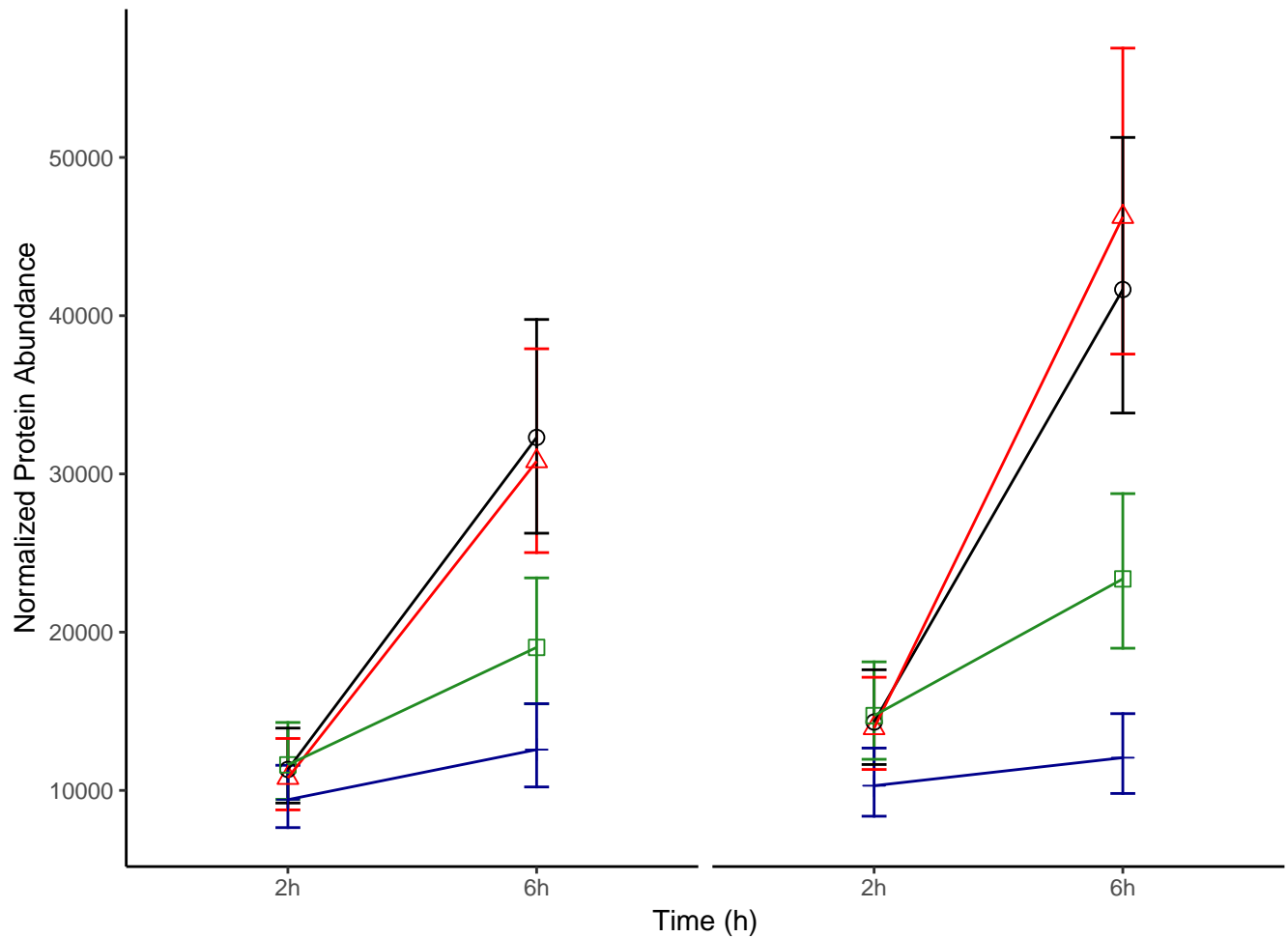


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y840\_STAAM

TSB

TSB-dex S-503

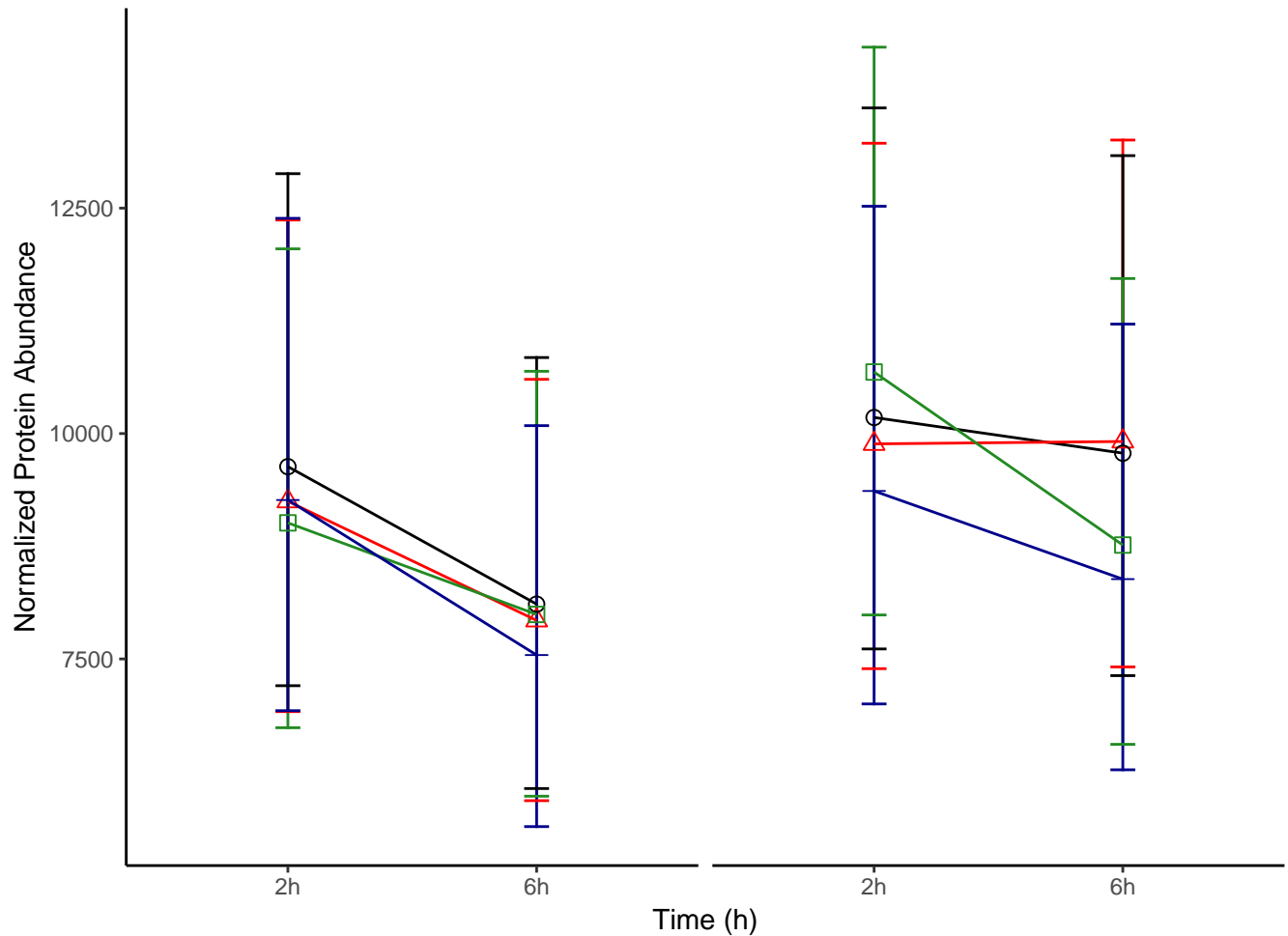


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y846\_STAAM

TSB

TSB-dex S-504



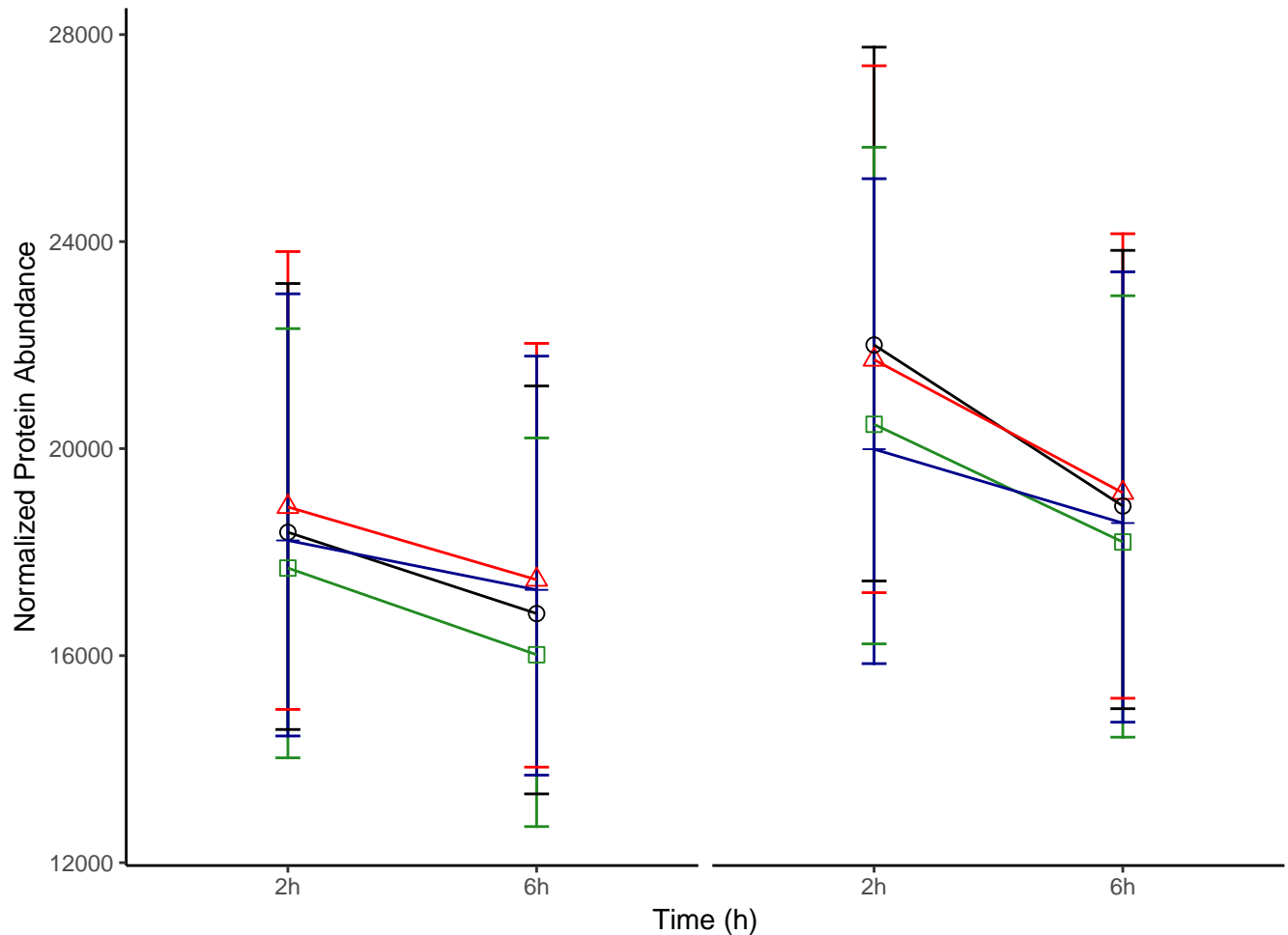
- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y941\_STAAM

TSB

TSB-dex S-505

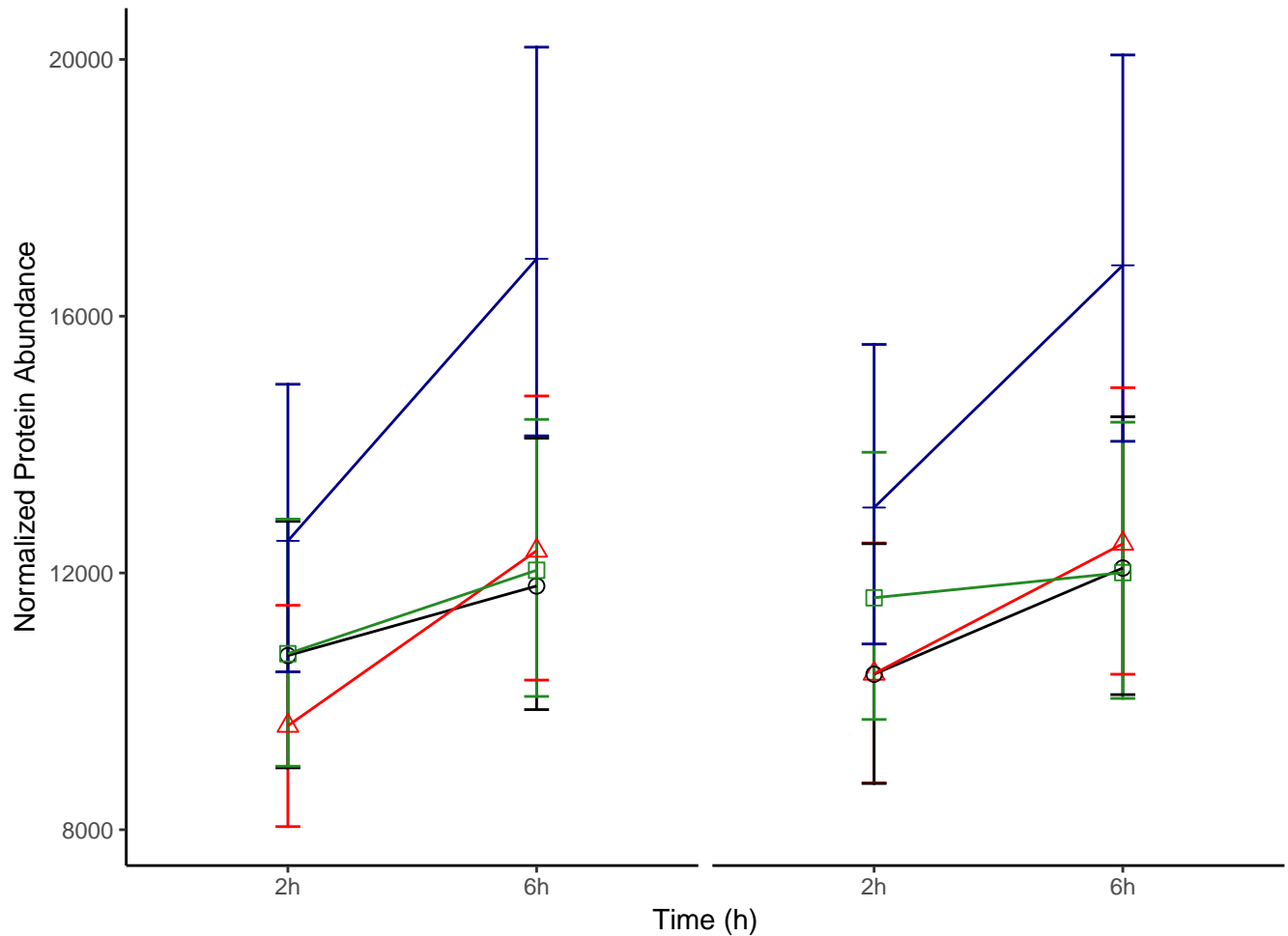


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y968\_STAAM

TSB

TSB-dex S-506

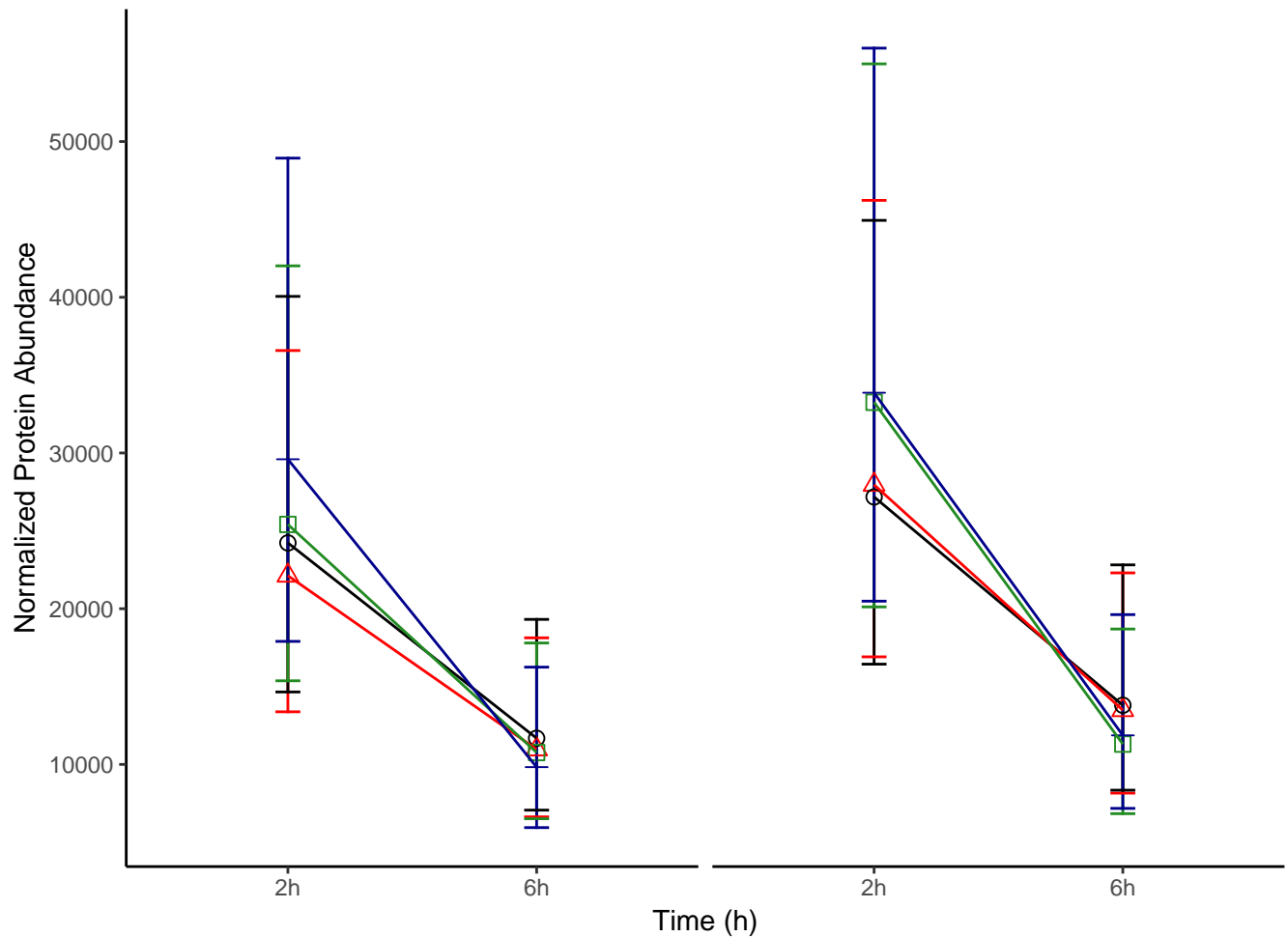


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# YABA\_STAAM

TSB

TSB-dex S-507

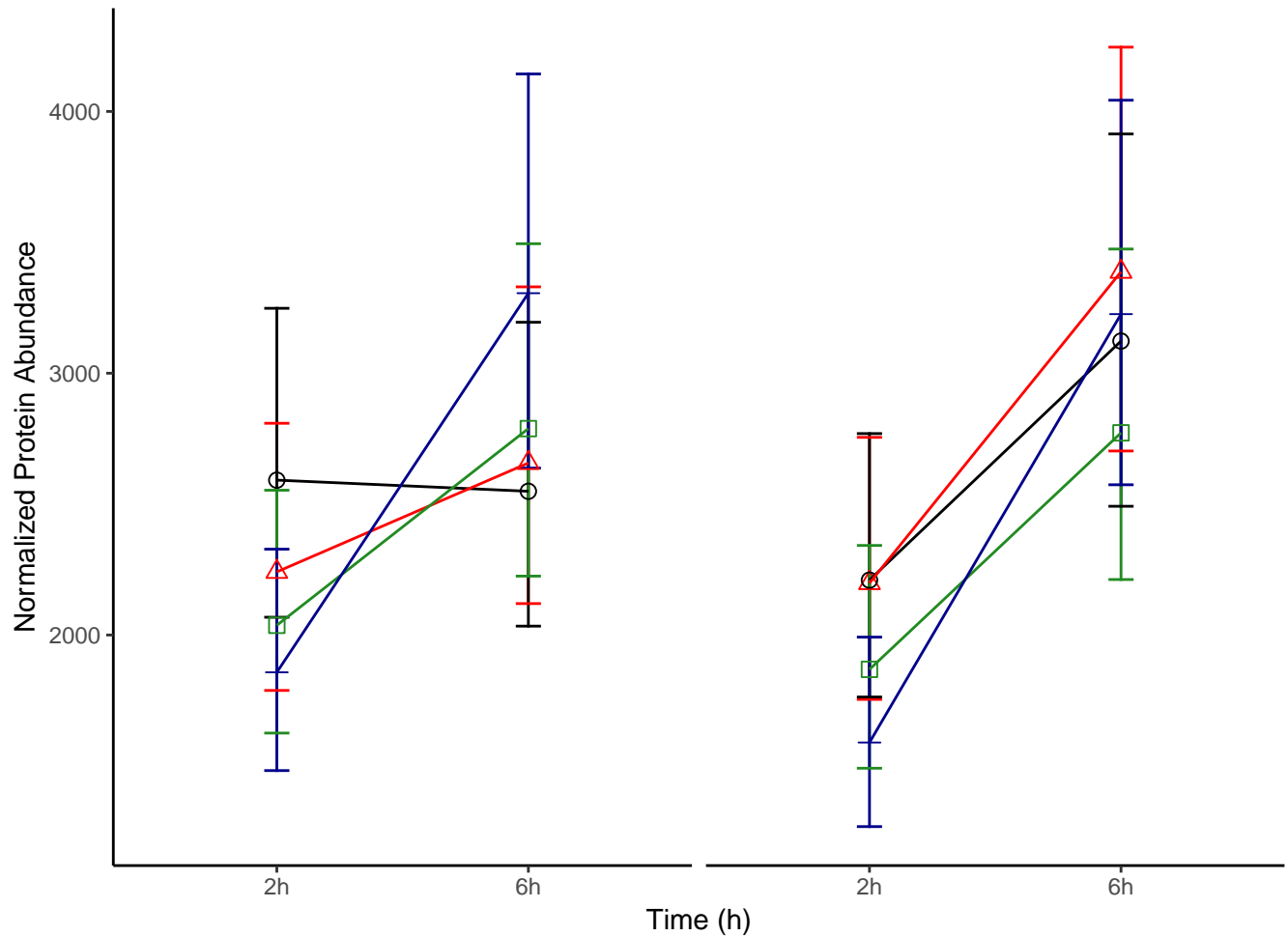


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# YBEY\_STAAM

TSB

TSB-dex S-508



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

**Figure G.**

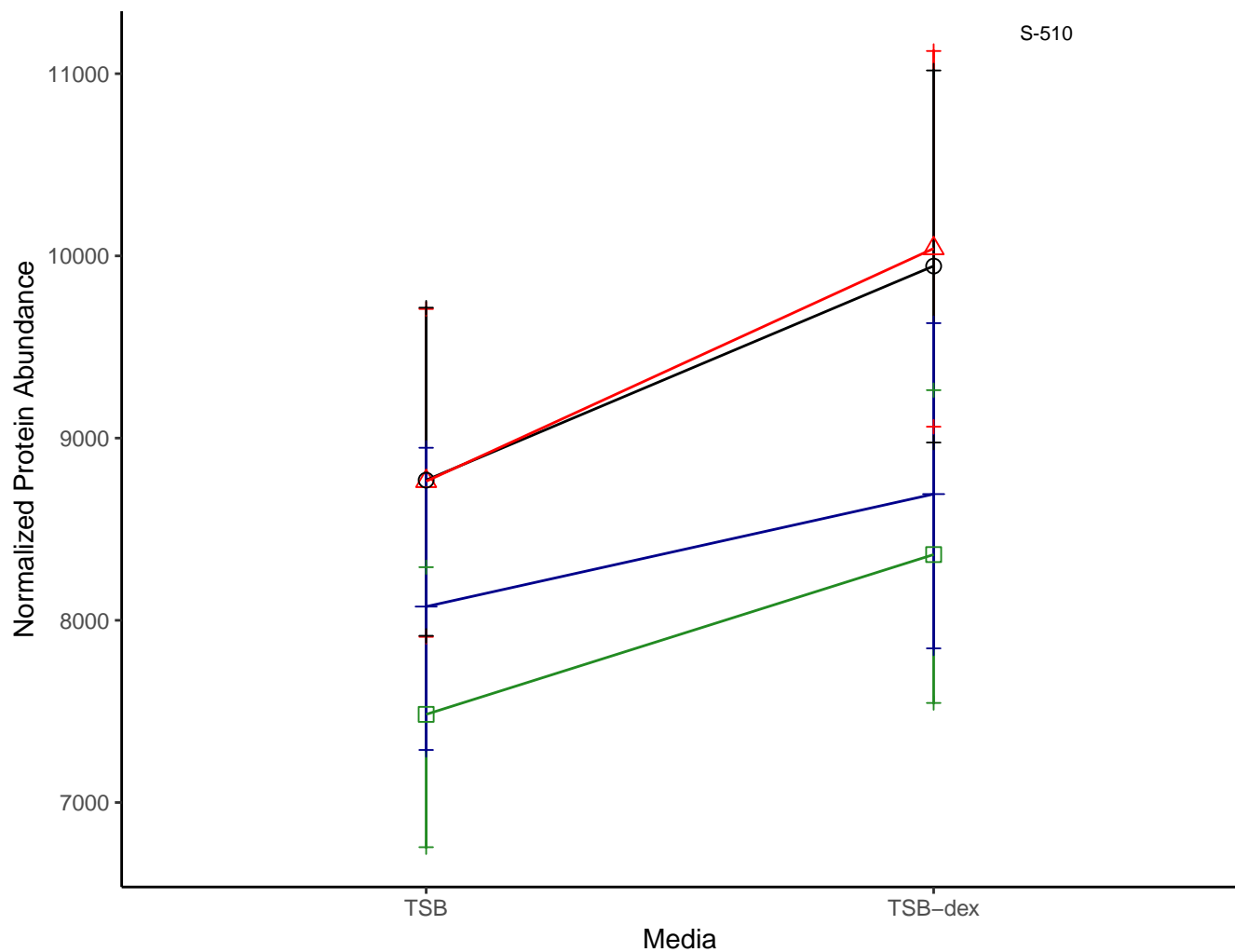
2-way analysis: s x m | h

Pages: S509-S1010

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if a 3-way interaction was rejected and 2-way interaction was identified between strain and media.

# 6PGD\_STAAM

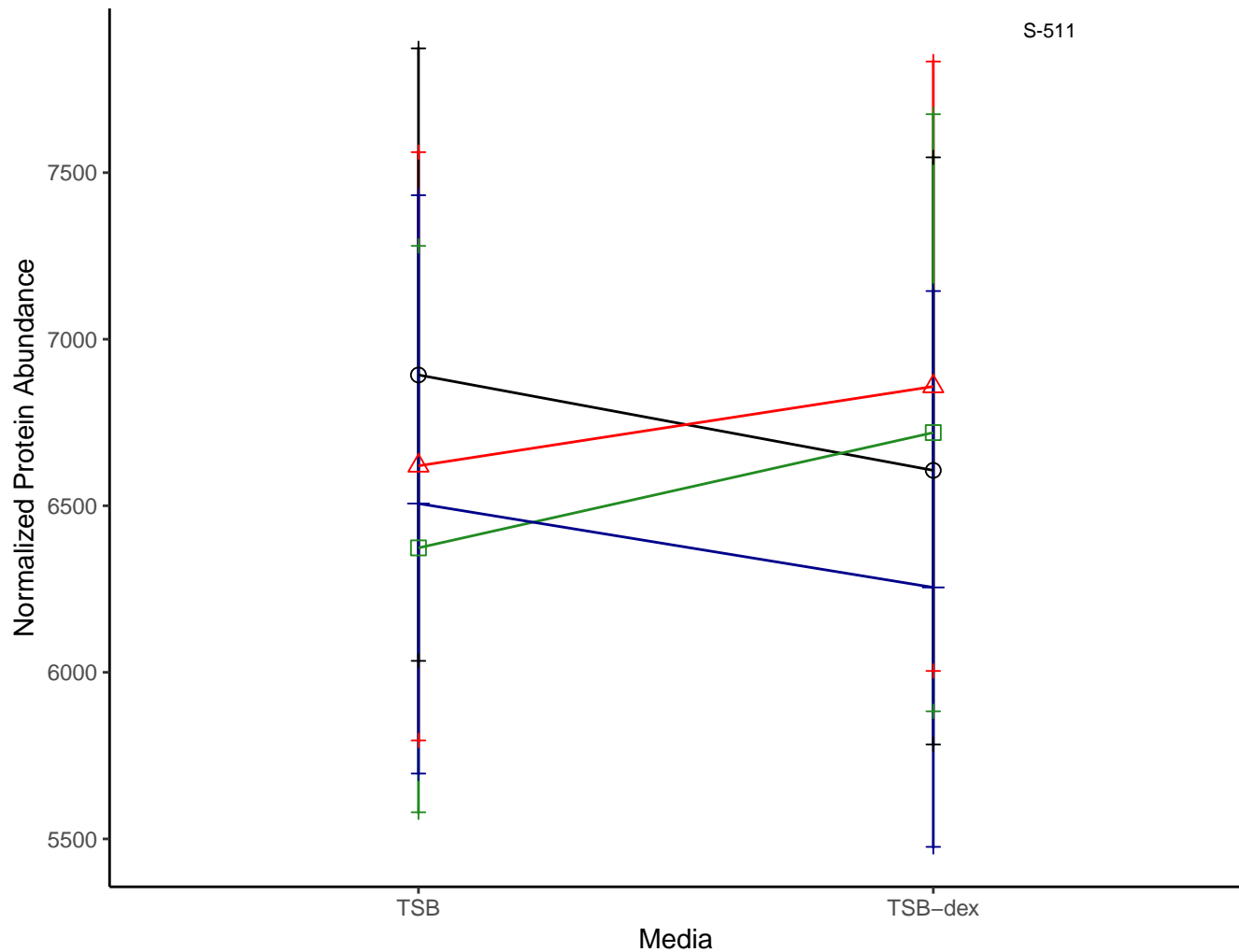
S-510



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# ACCA\_STAAM

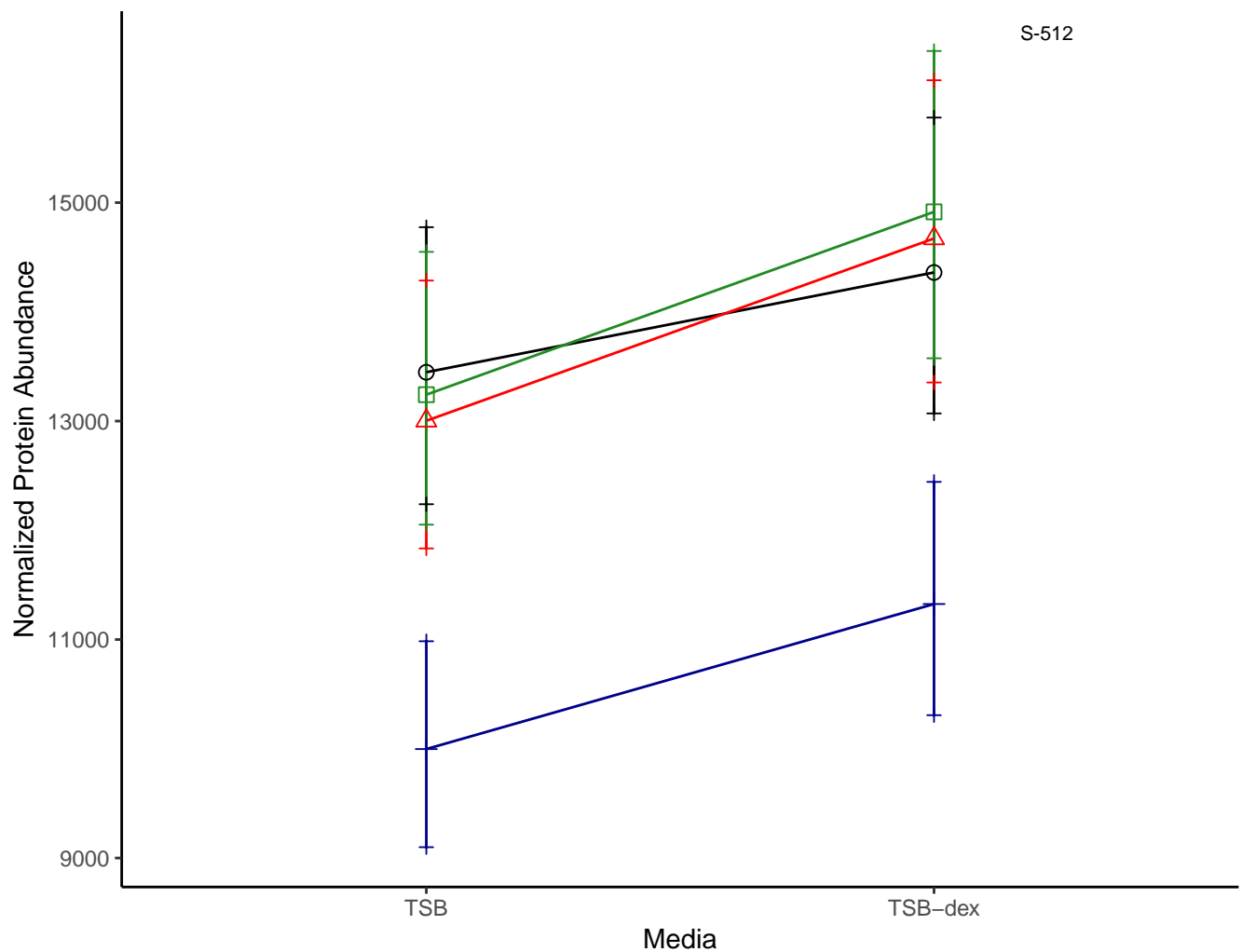
S-511



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ACKA\_STAAM

S-512

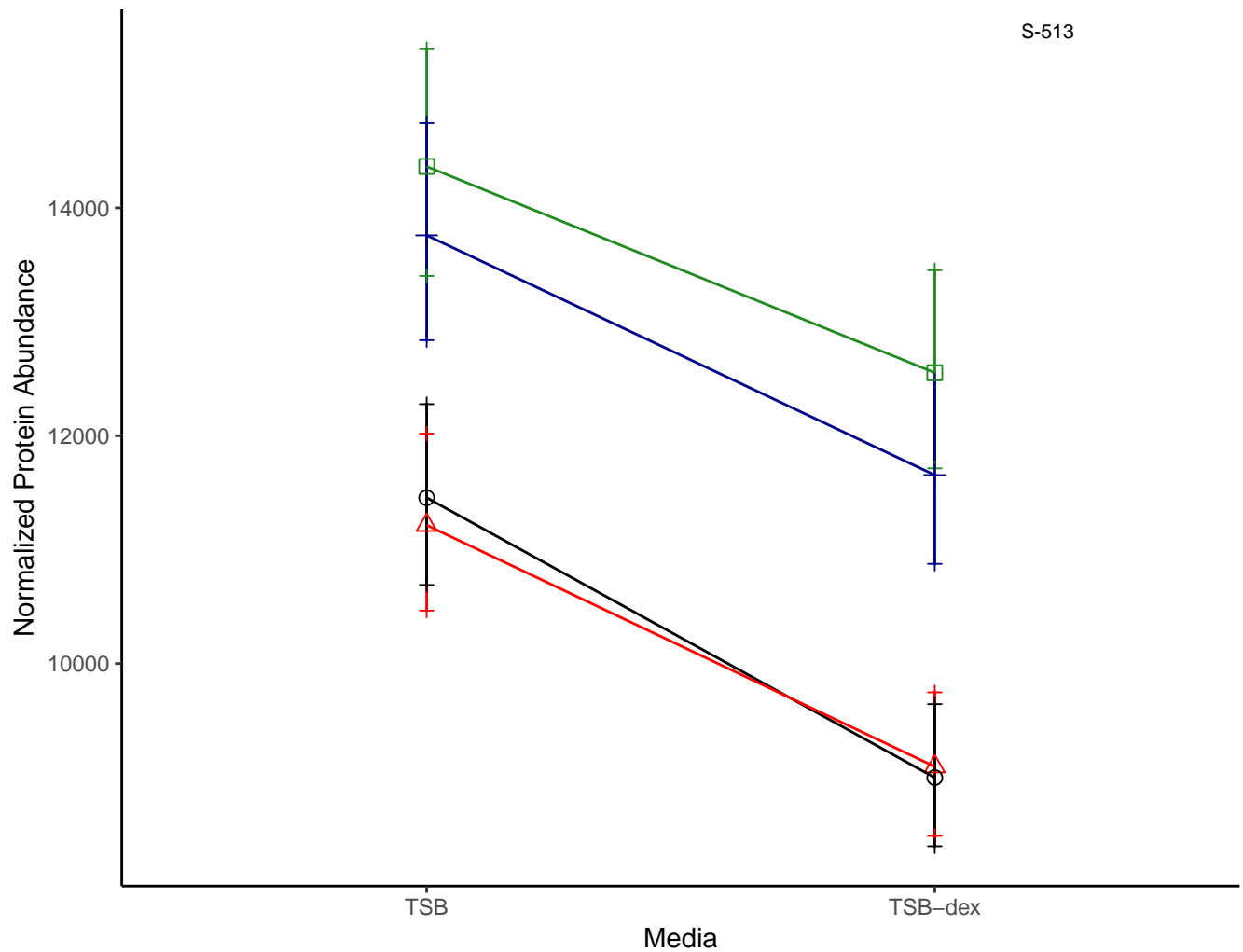


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ACON\_STAAM

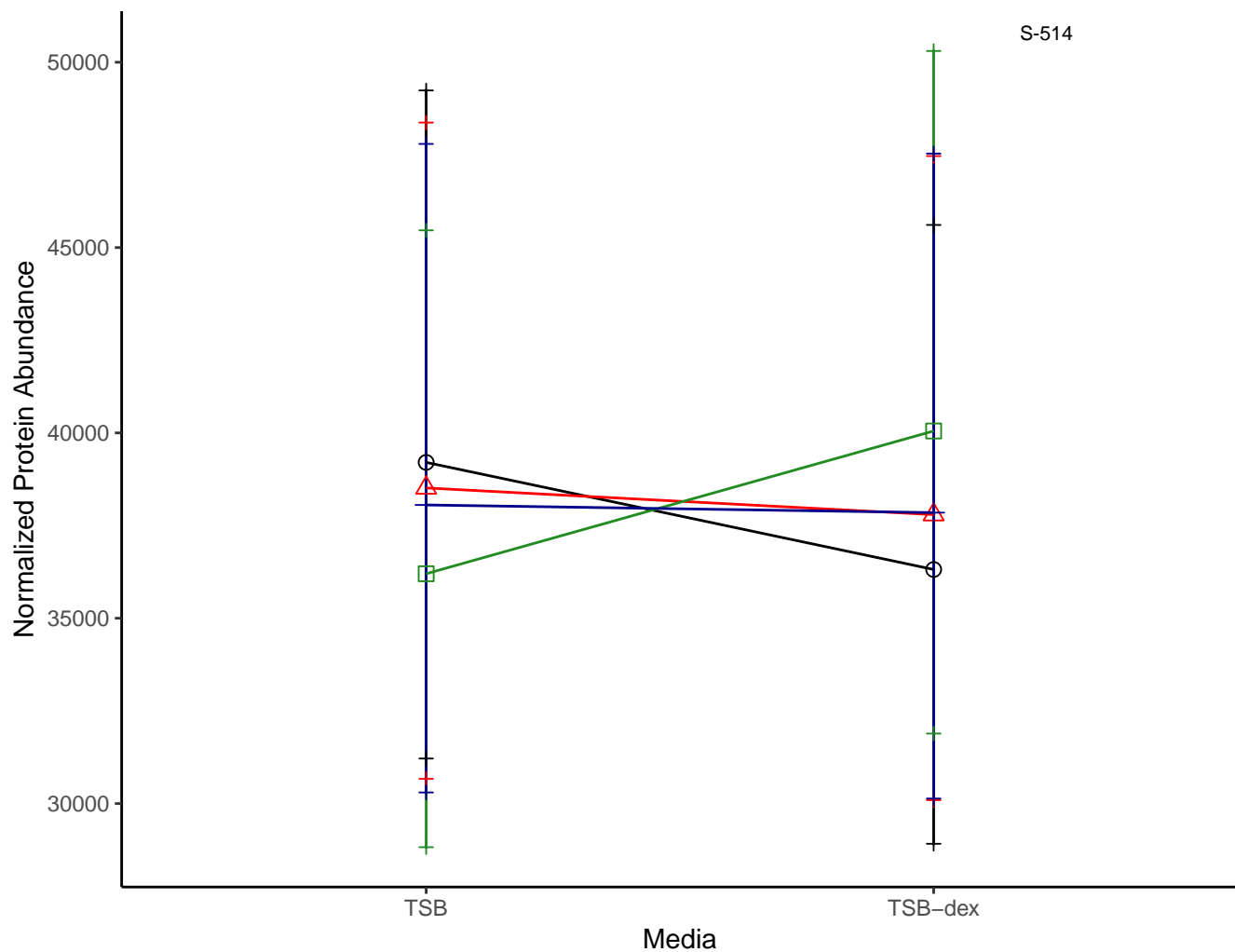
S-513



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACP\_STAAM

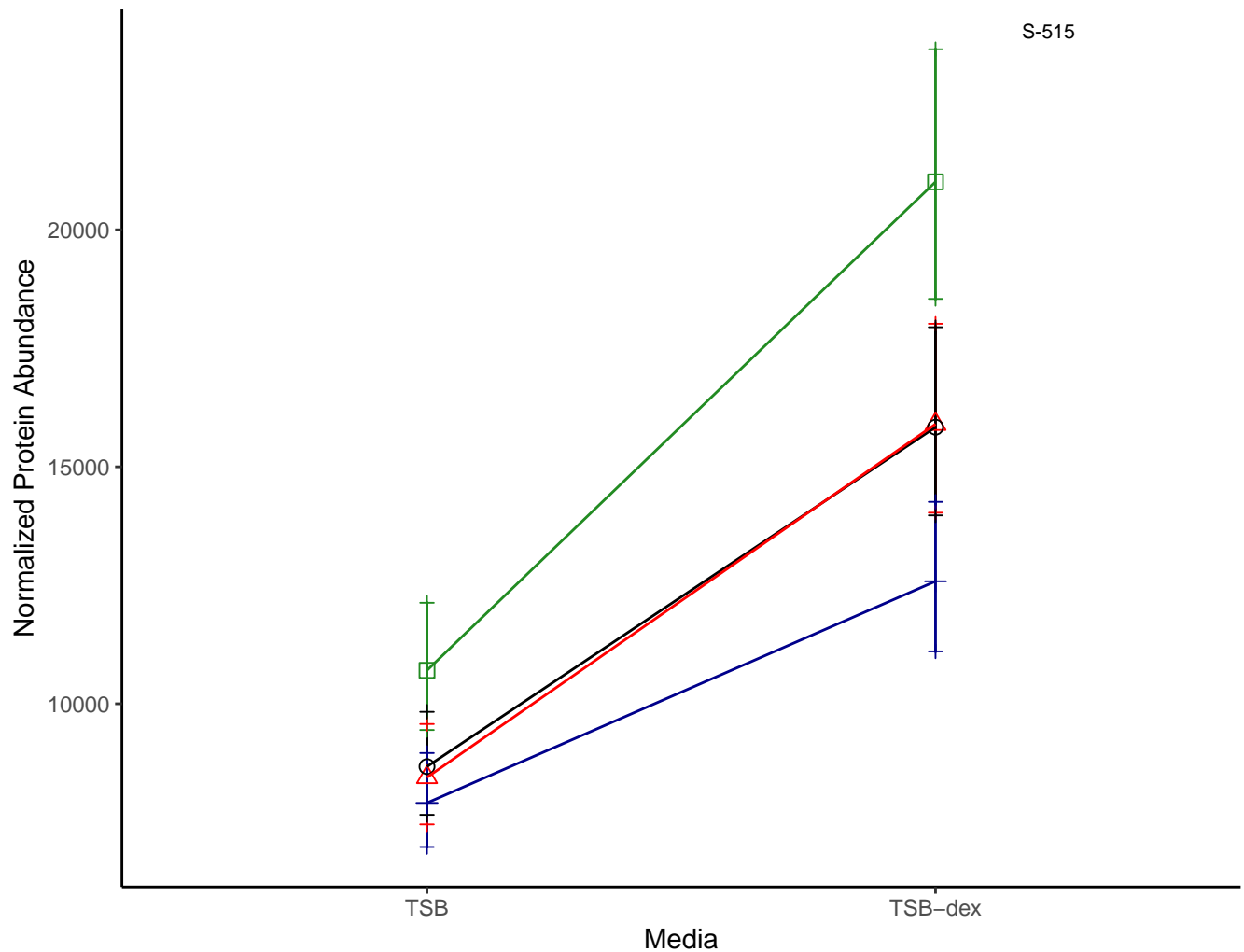
S-514



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ADH\_STAAM

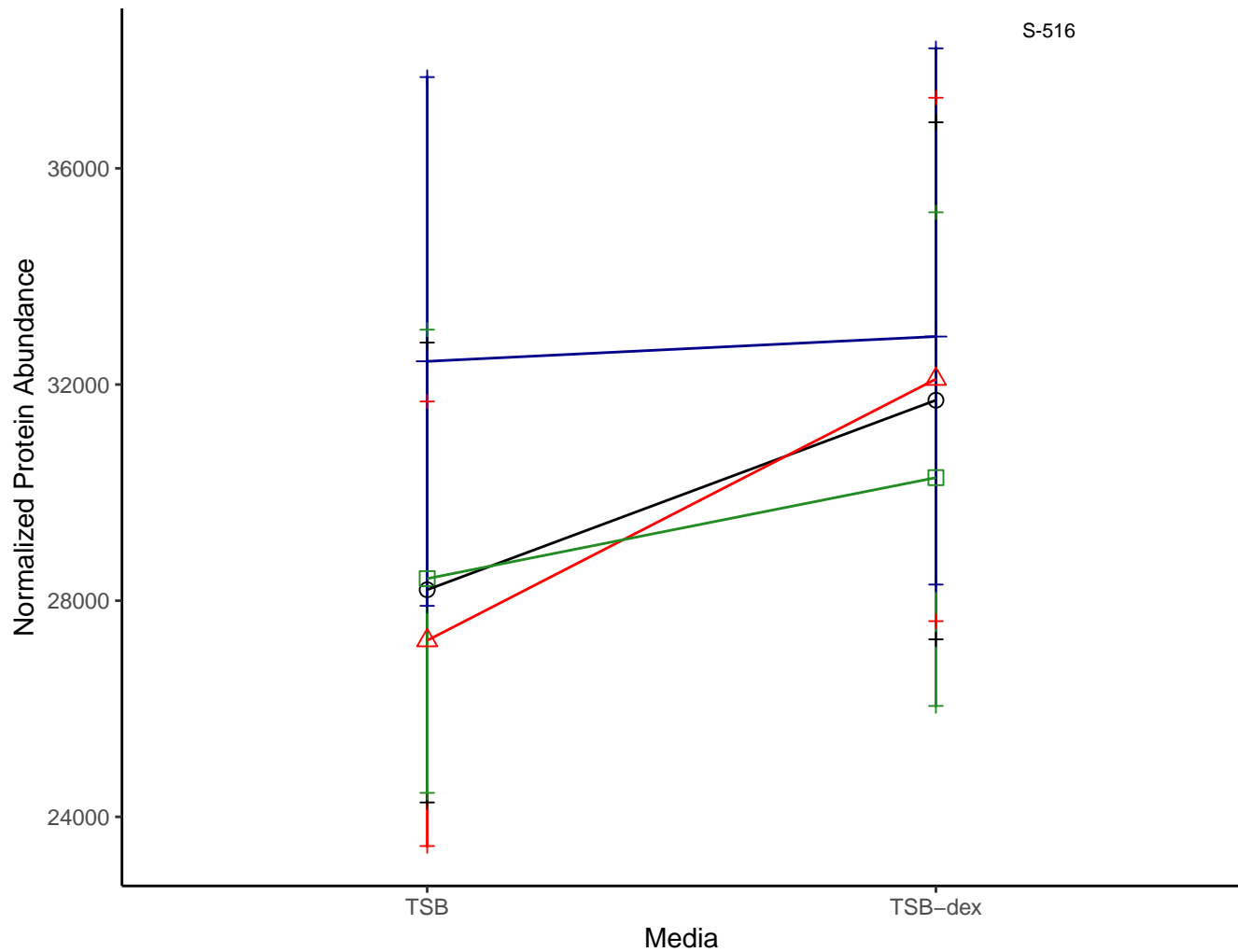
S-515



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AHPC\_STAAM

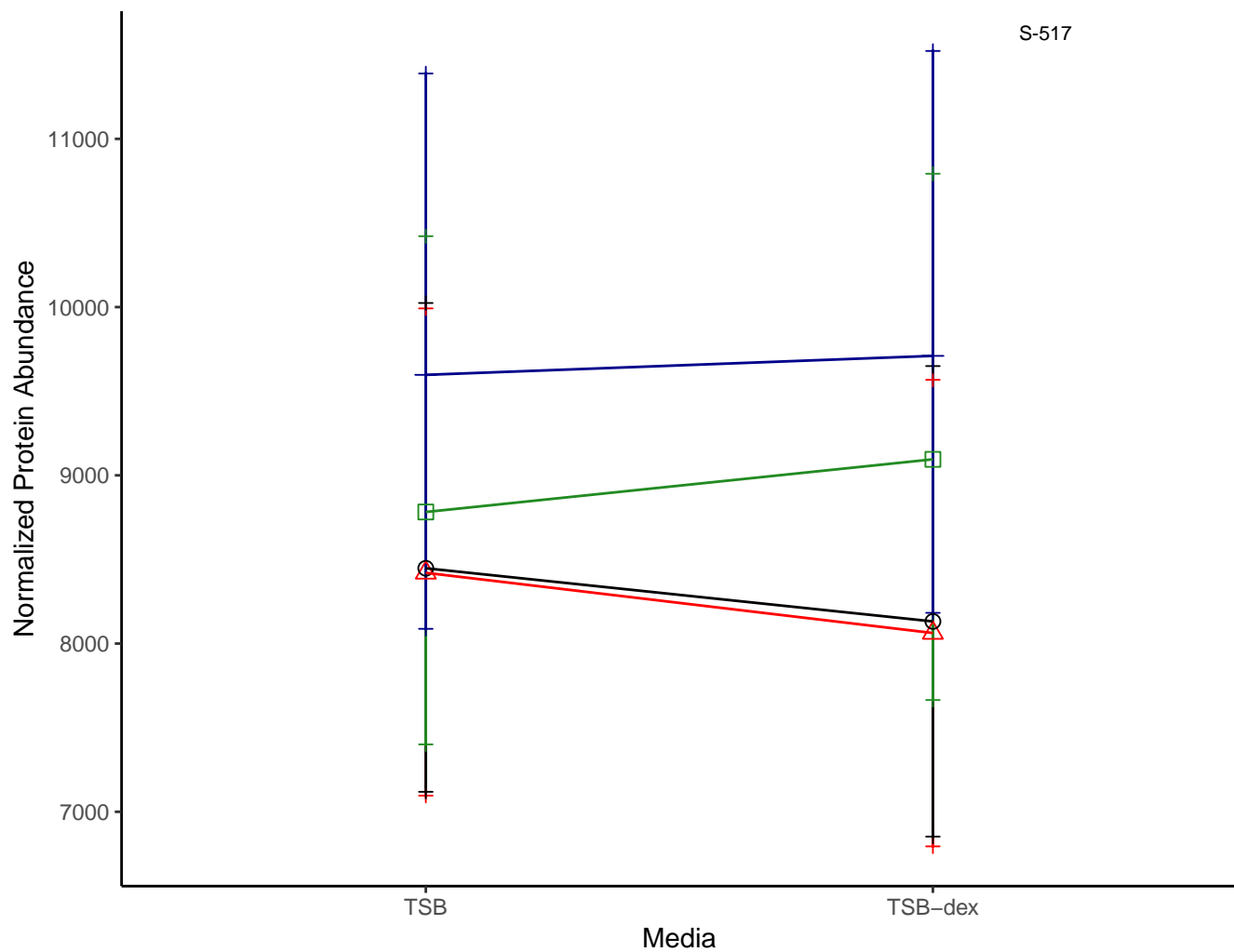
S-516



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AHPF\_STAAM

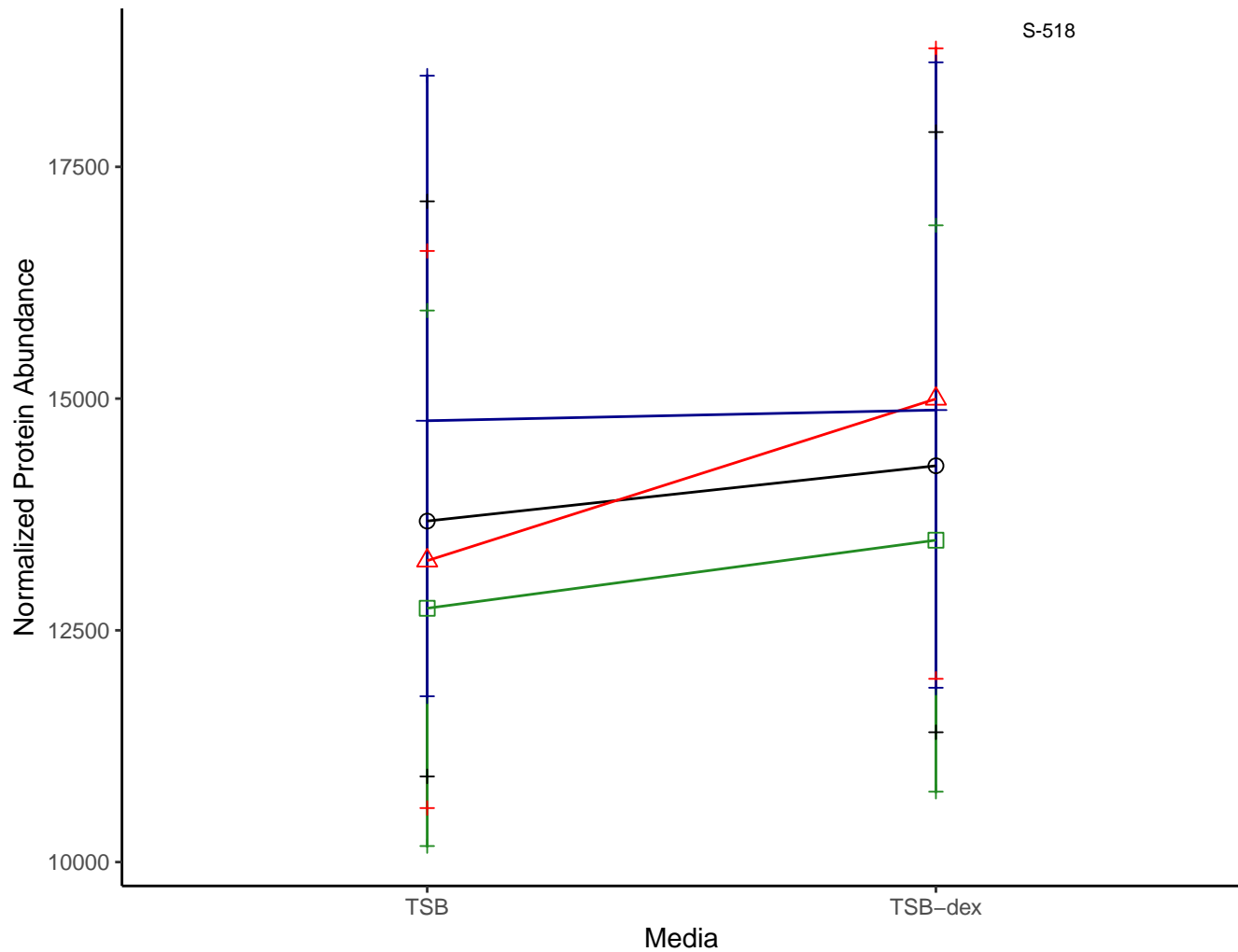
S-517



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ALD1\_STAAM

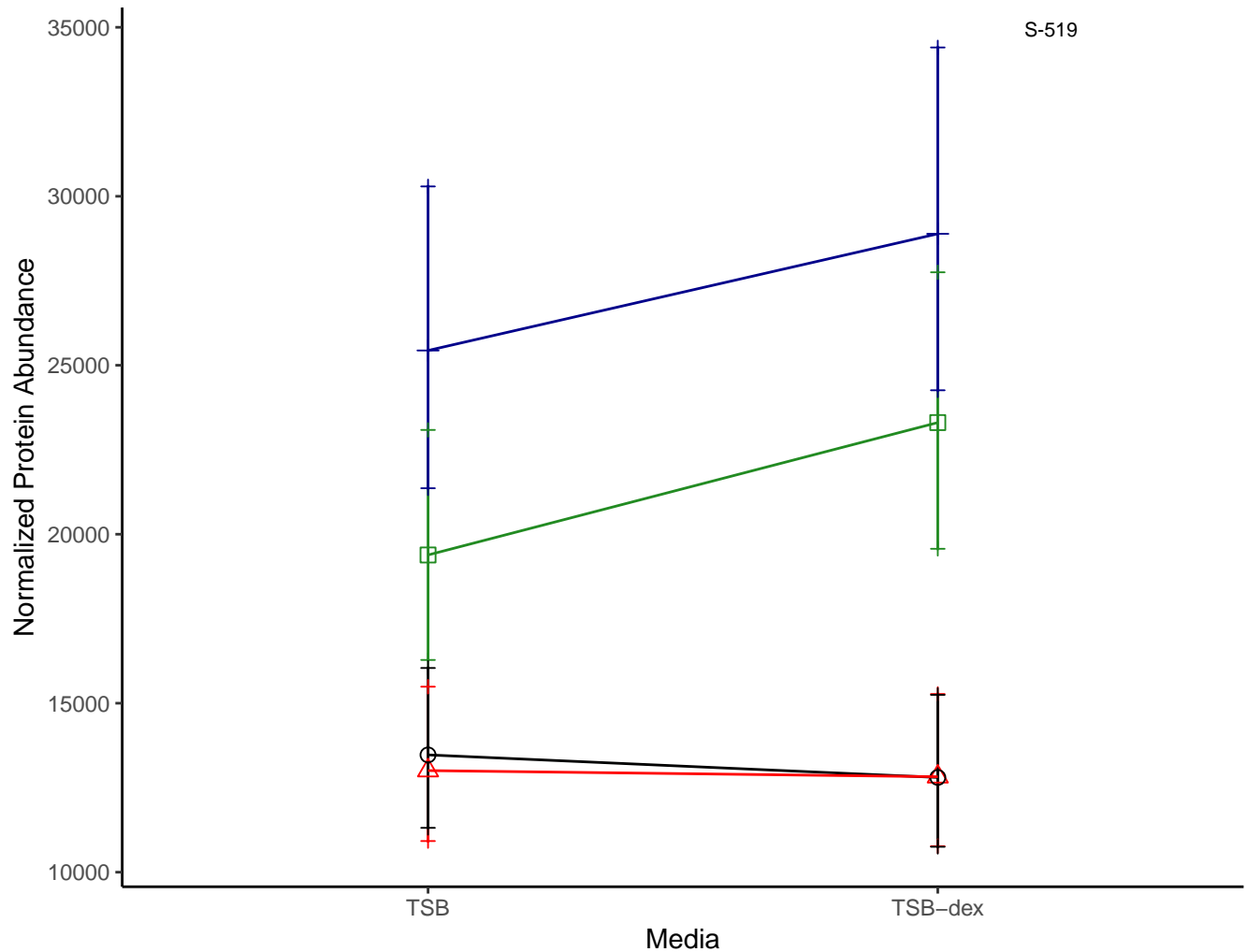
S-518



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ALDA\_STAAM

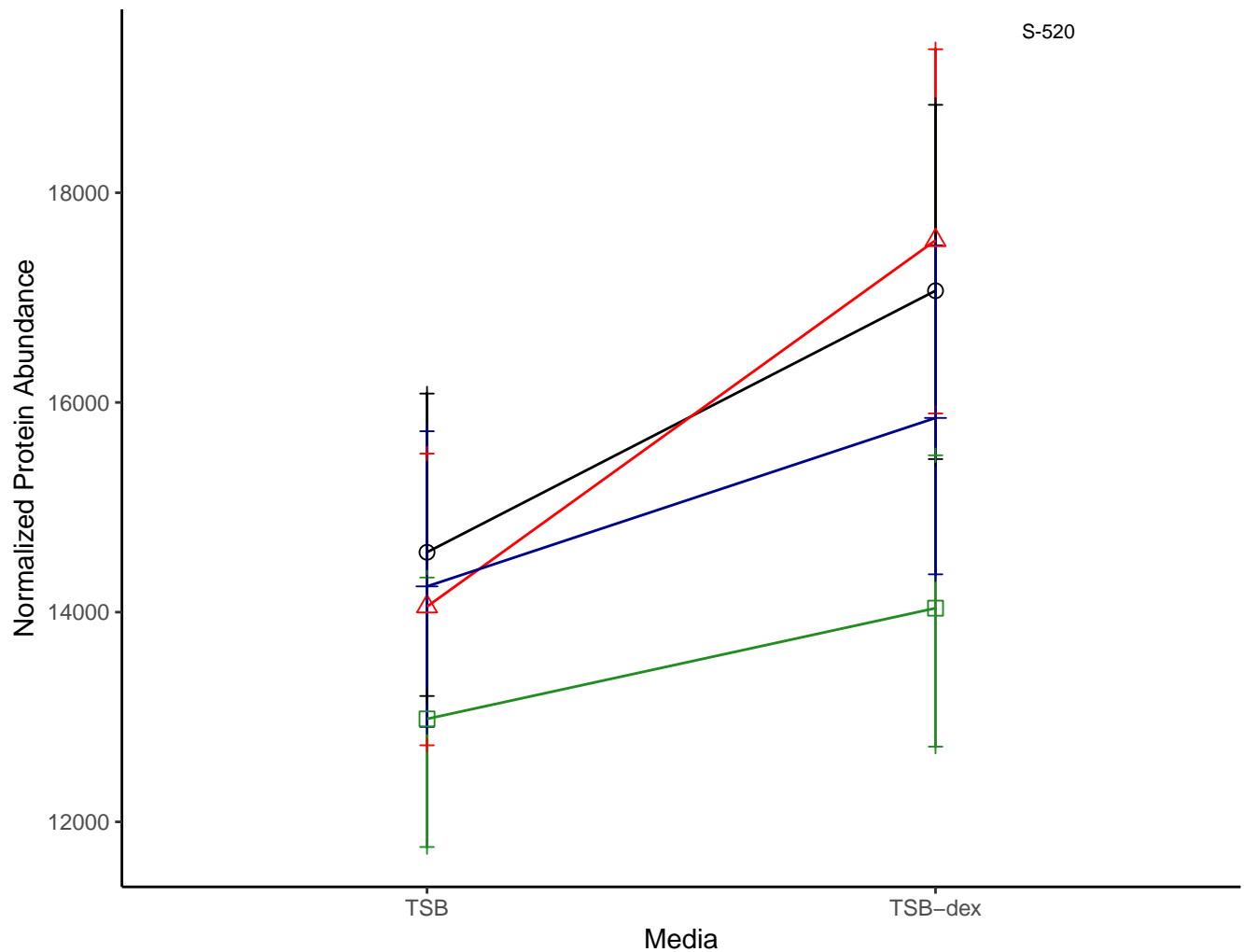
S-519



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ALF1\_STAAM

S-520

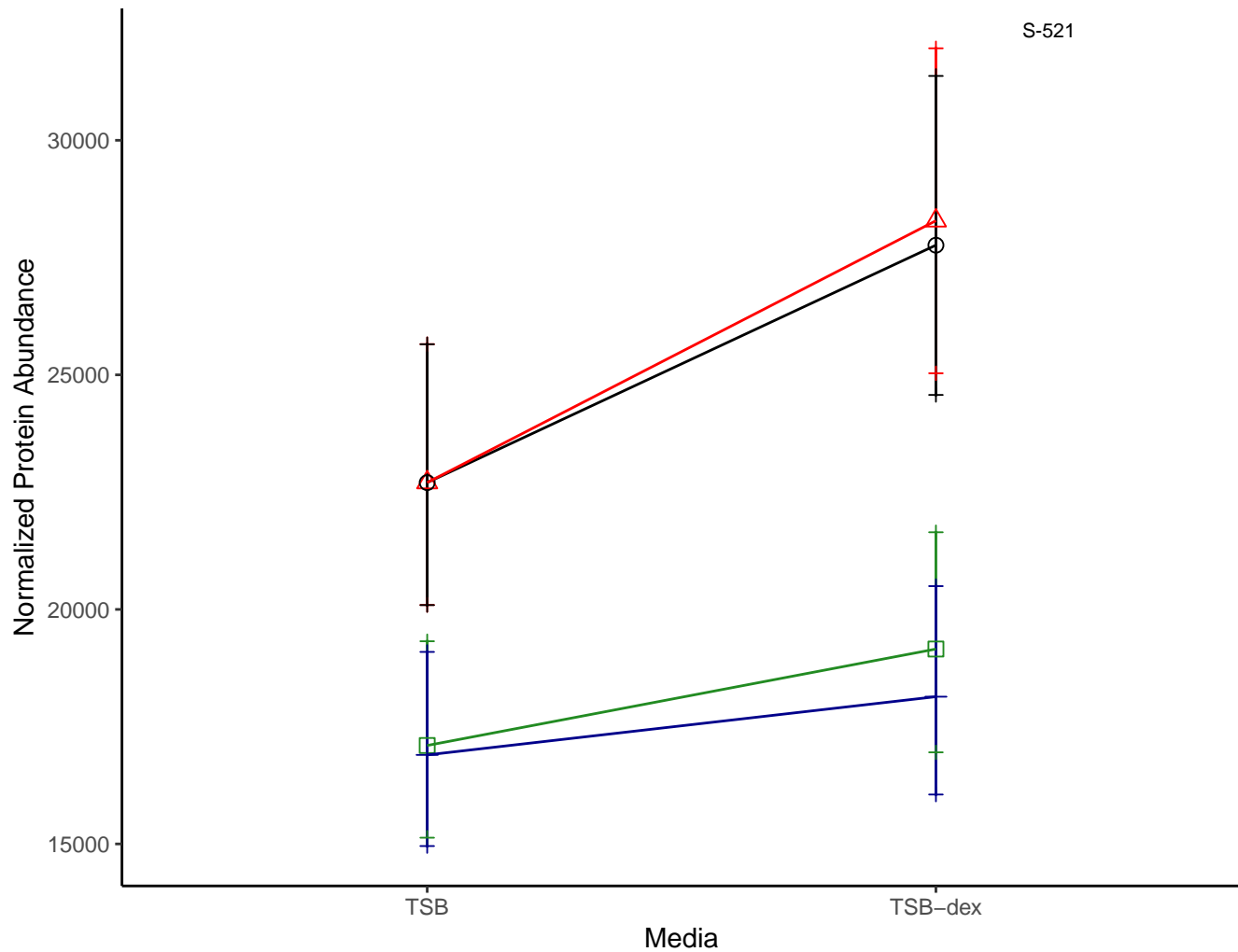


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# ALF2\_STAAM

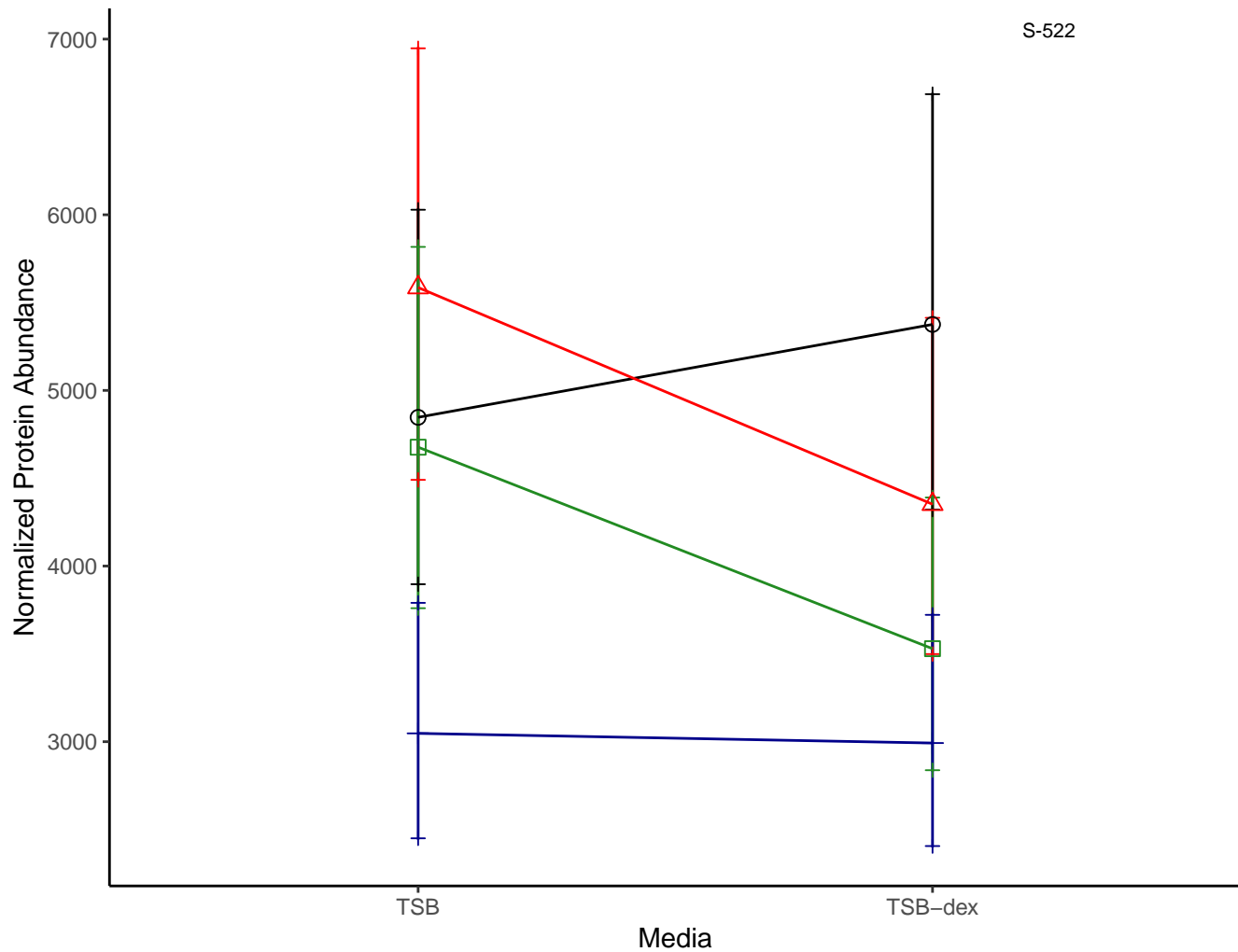
S-521



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# APT\_STAAM

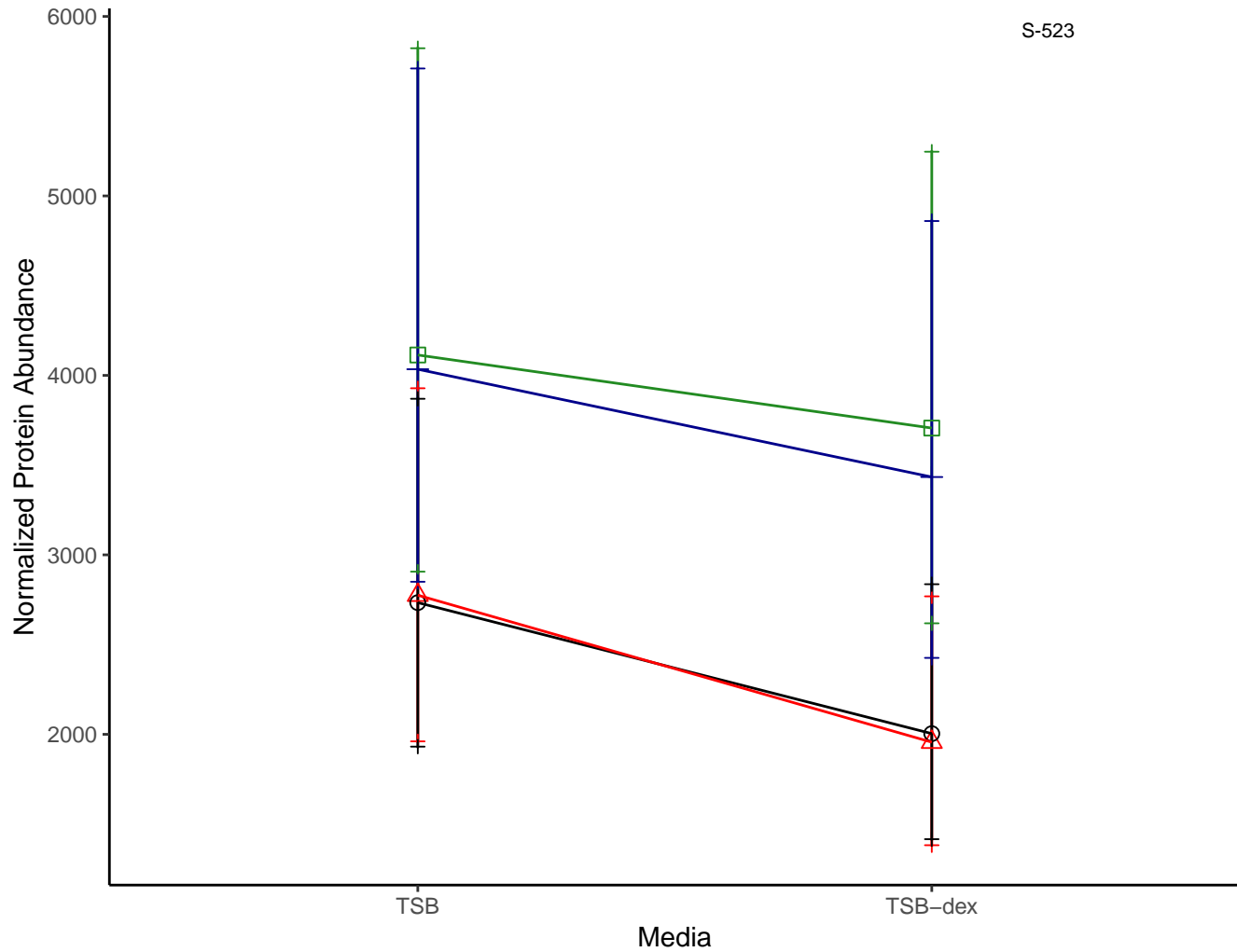
S-522



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ARCA\_STAAM

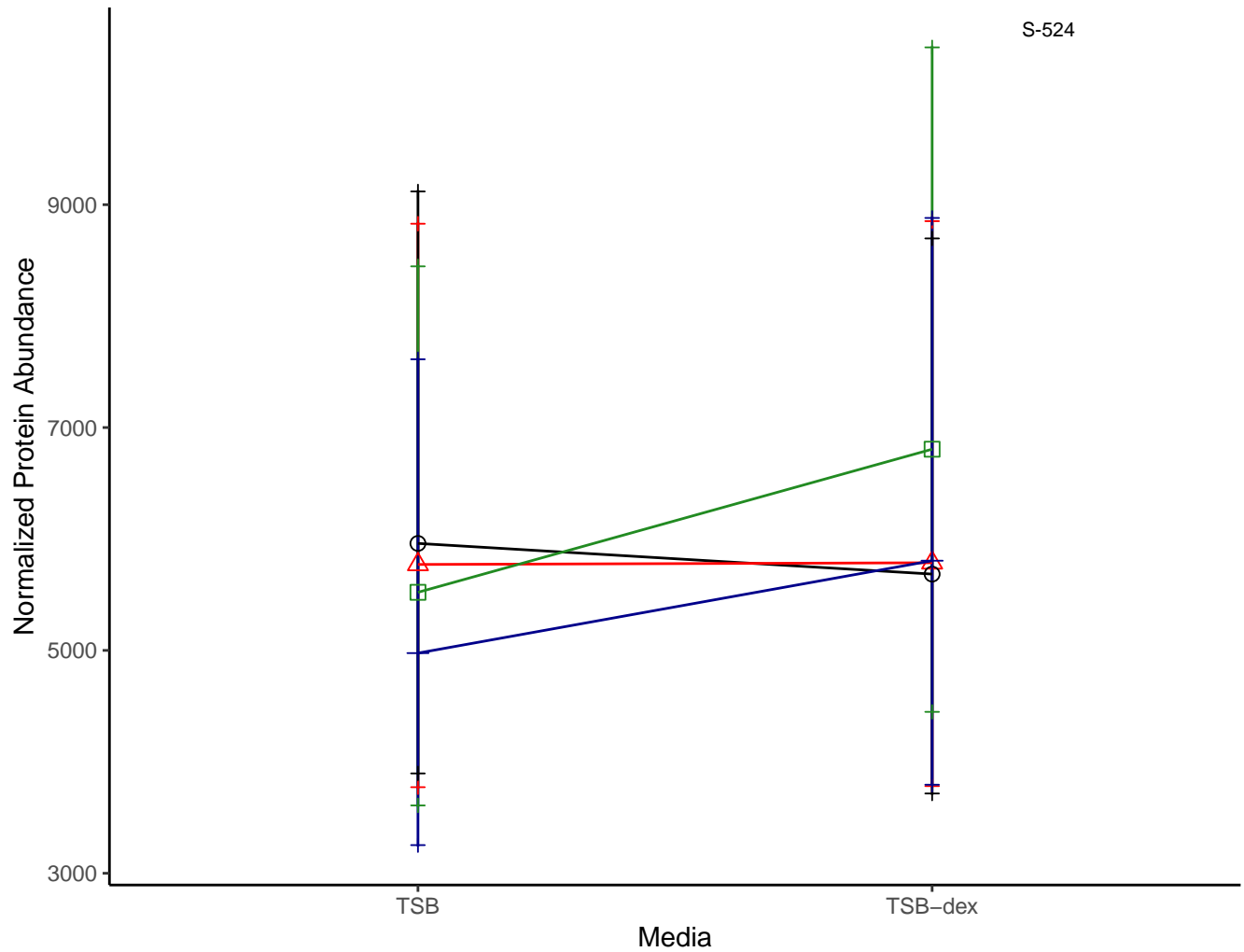
S-523



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARCC1\_STAAM

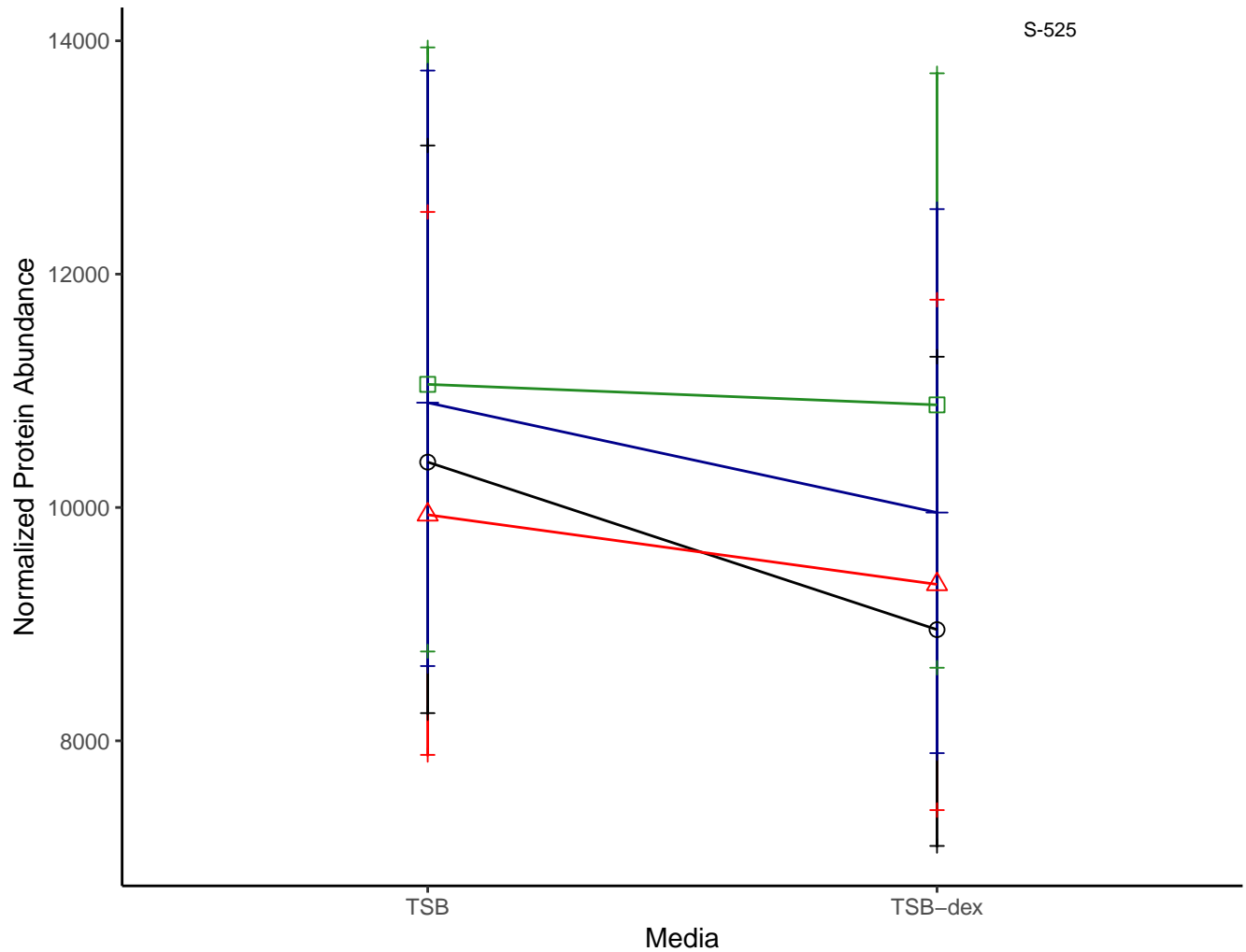
S-524



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARGI\_STAAM

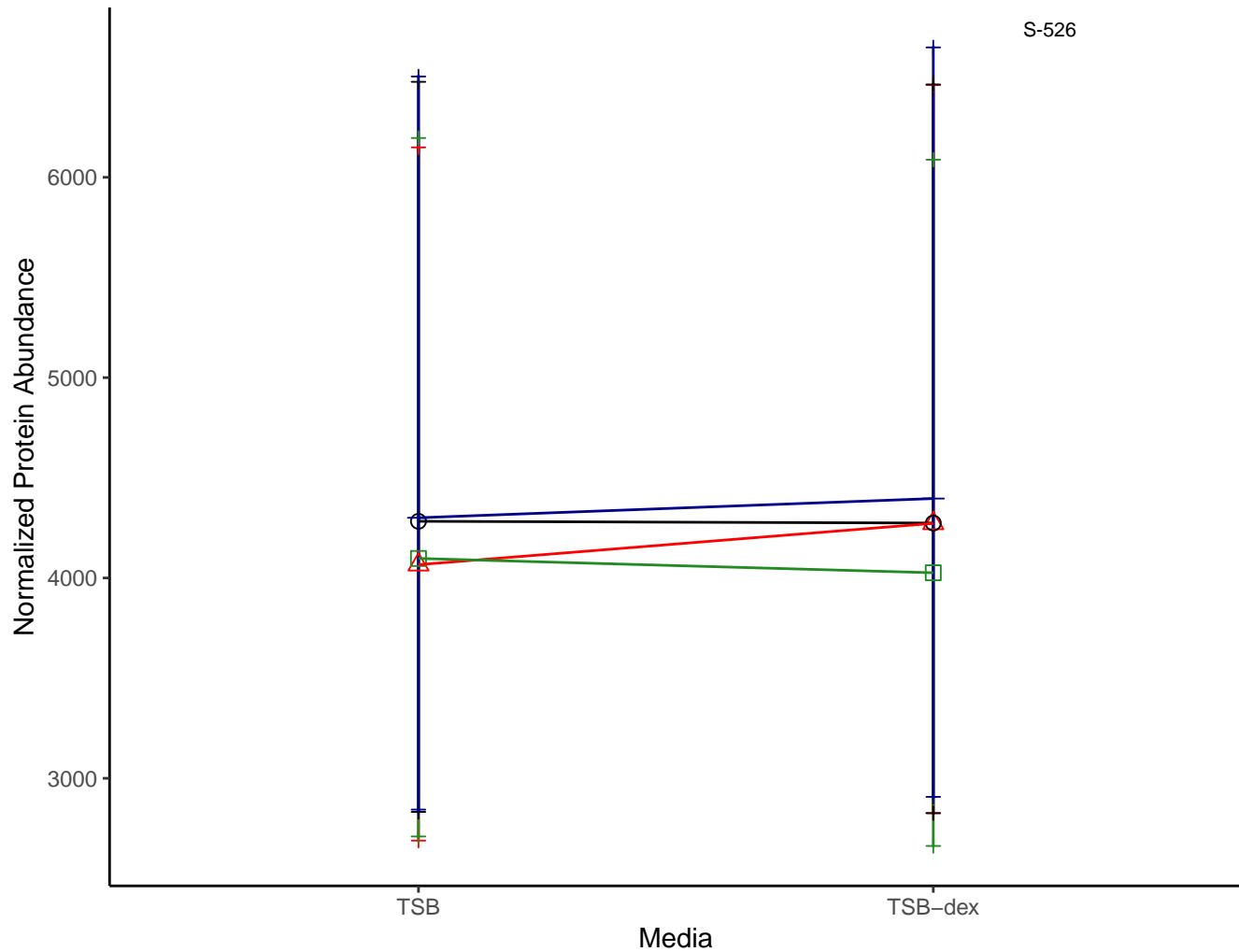
S-525



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ARGR\_STAAM

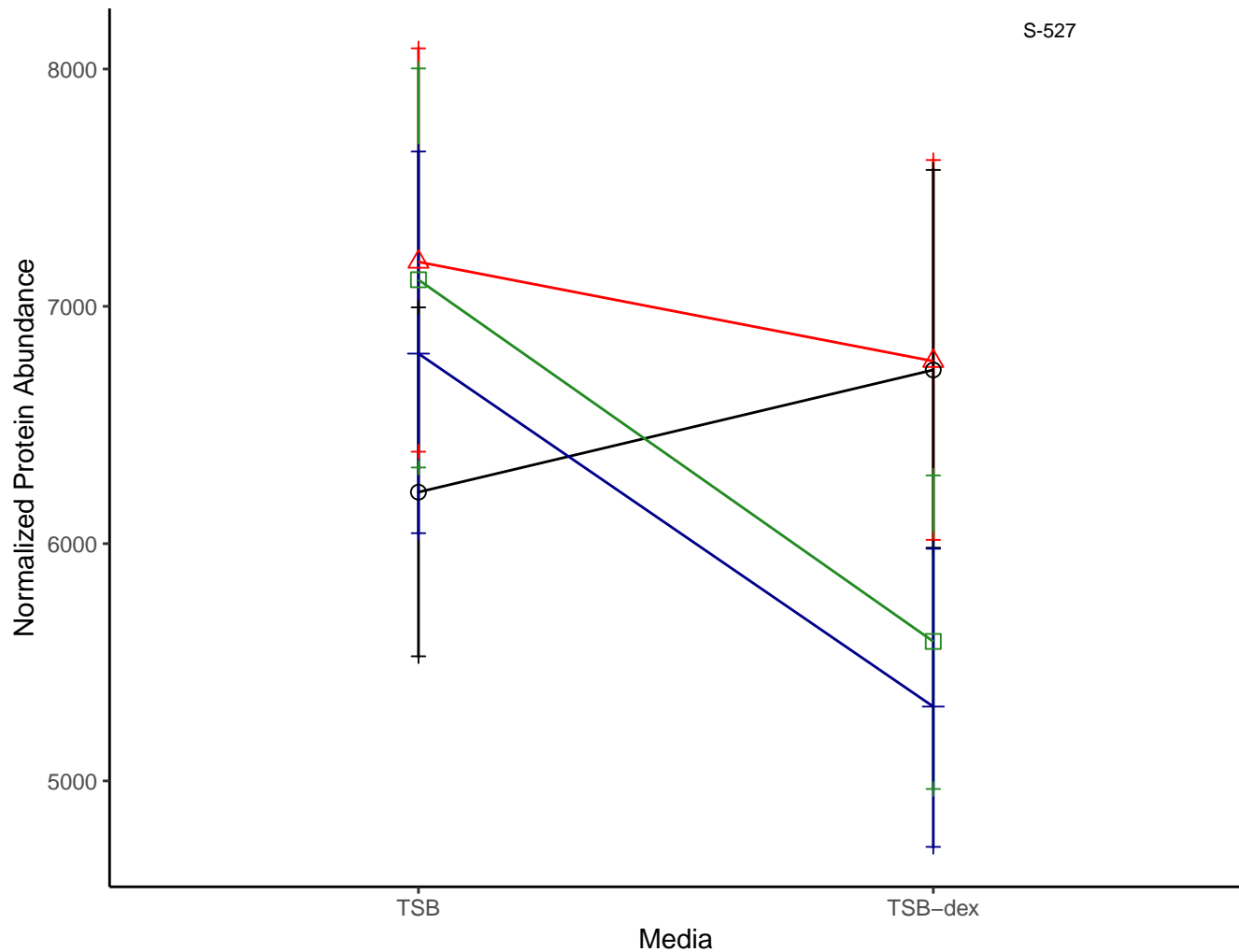
S-526



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ARLR\_STAAM

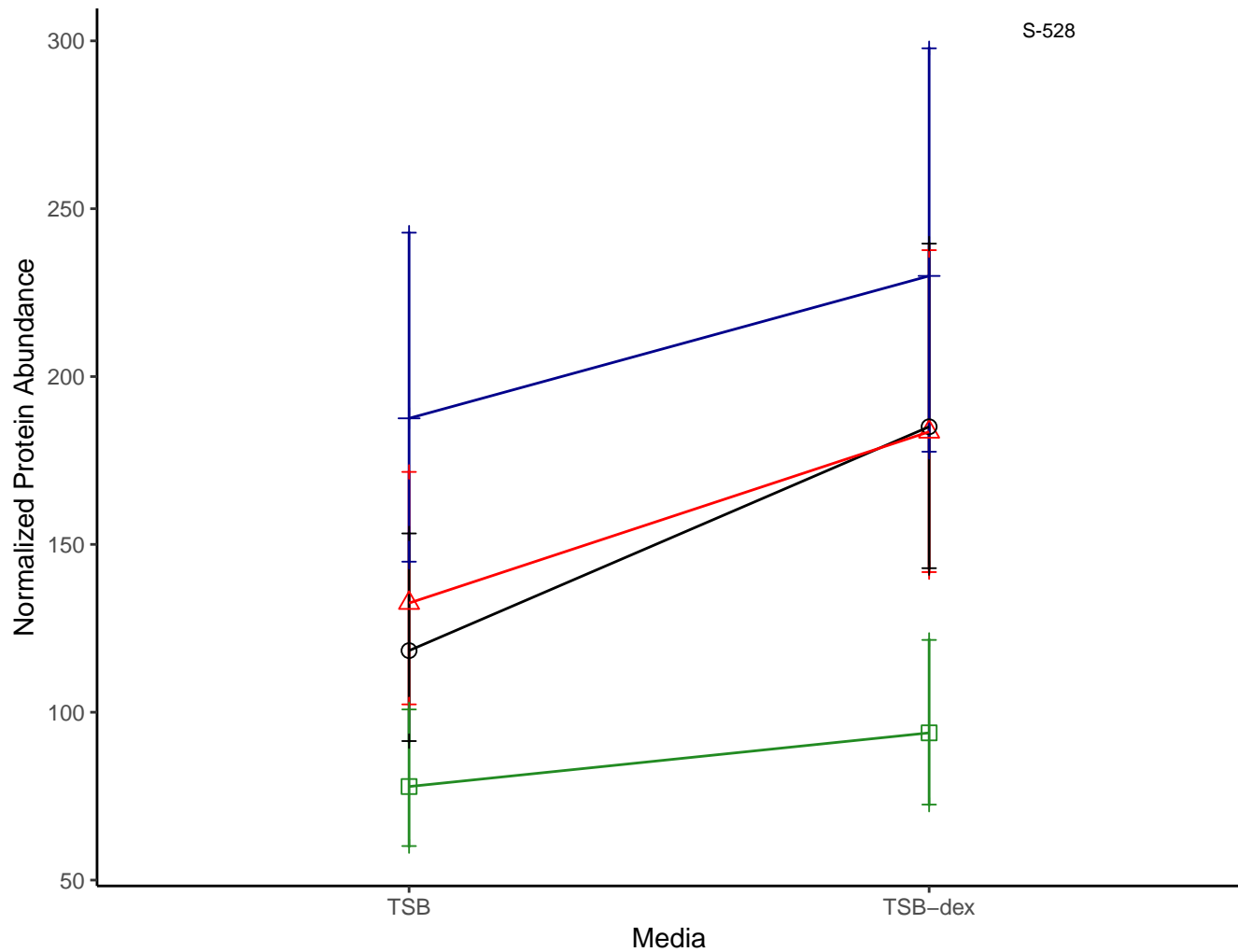
S-527



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARLY\_STAAM

S-528

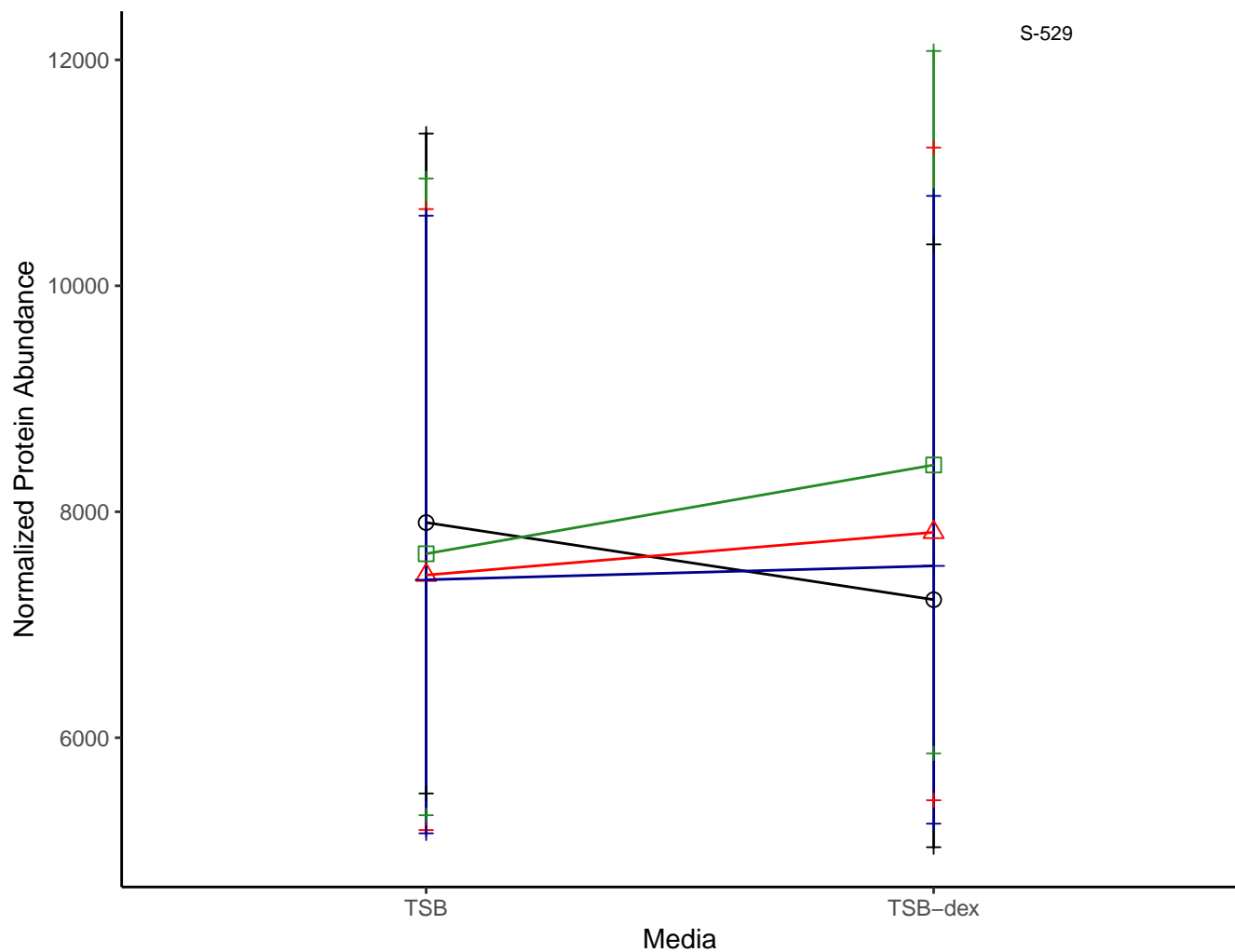


- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*



# AROA\_STAAM

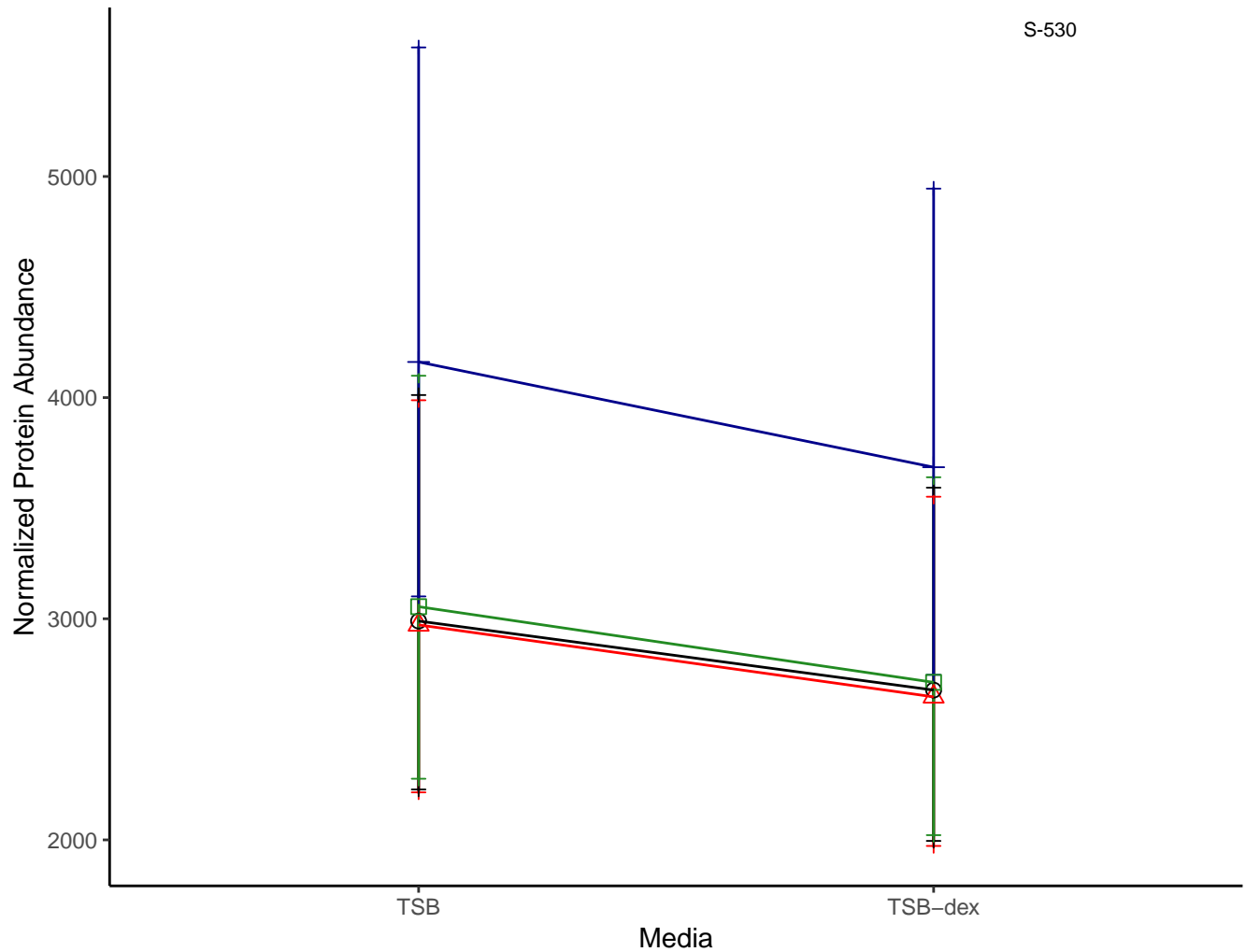
S-529



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# AROB\_STAAM

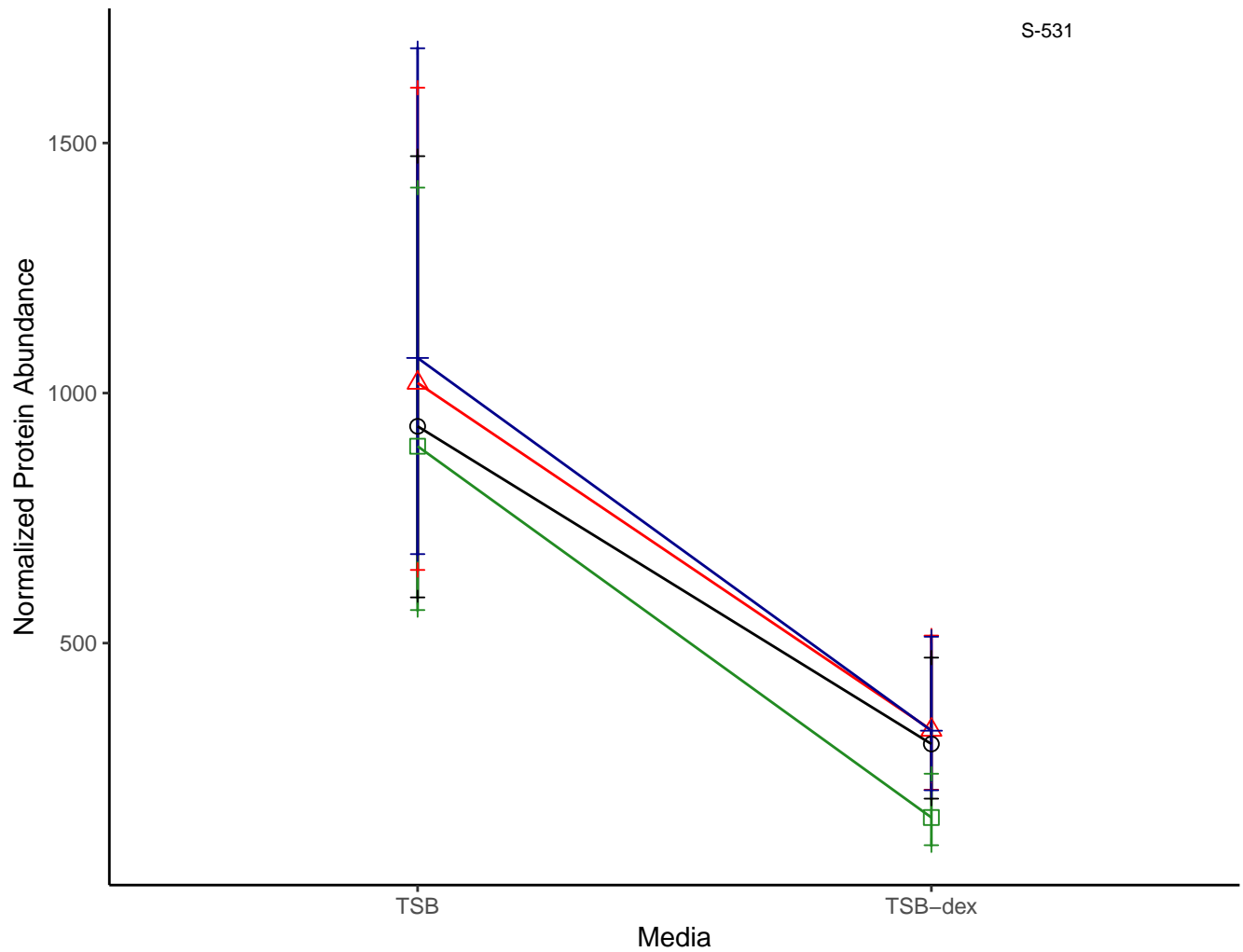
S-530



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# AROE\_STAAM

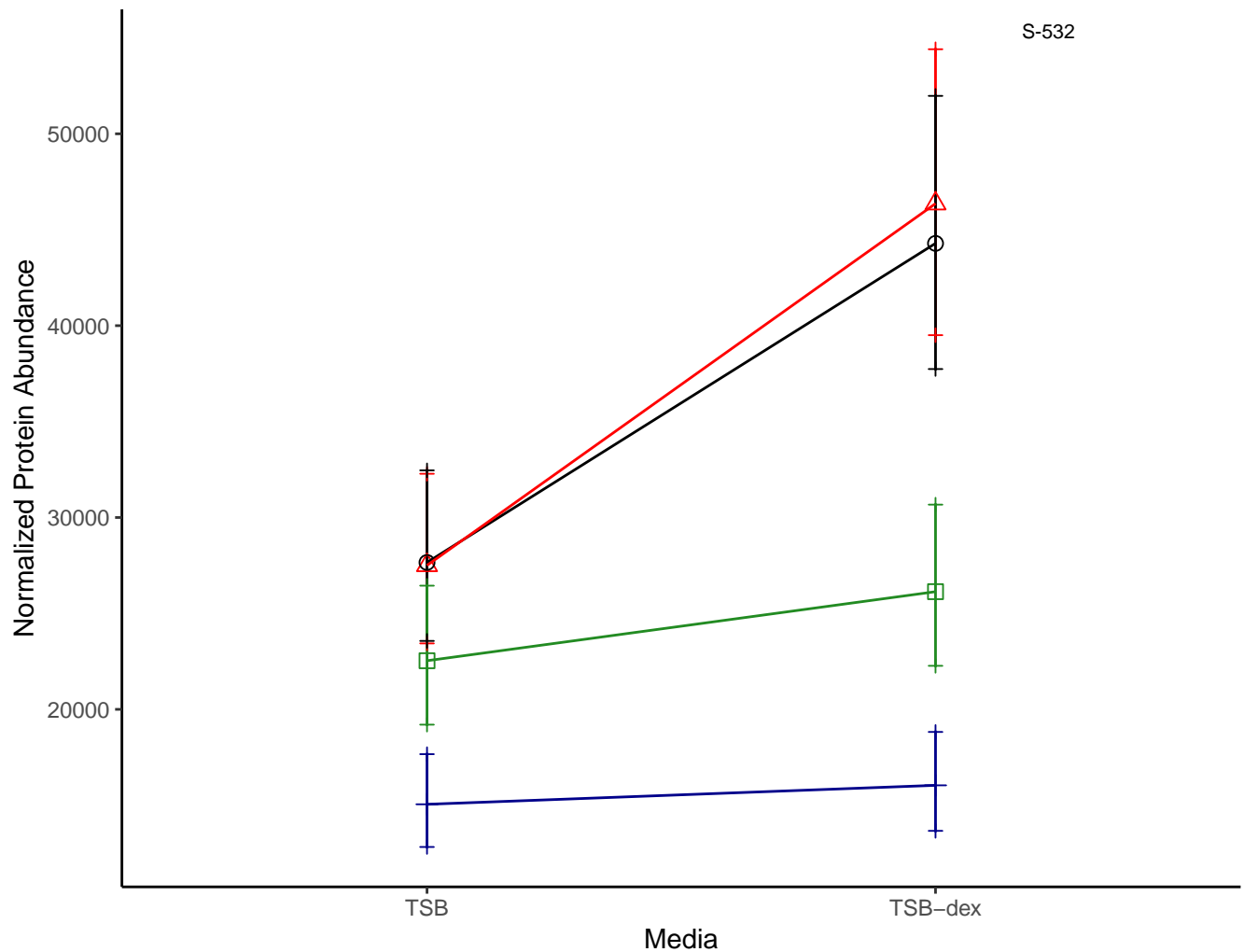
S-531



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ASP23\_STAAM

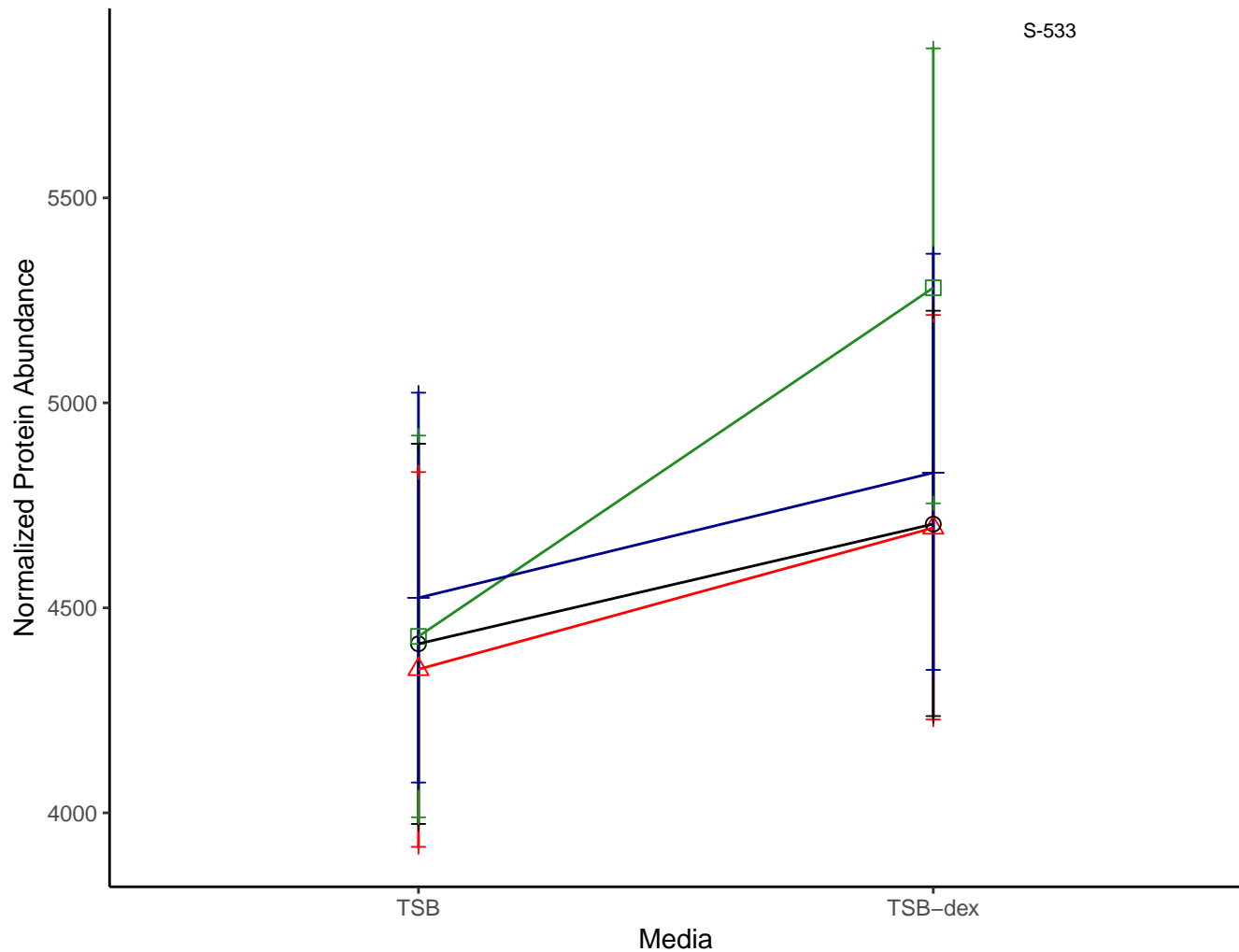
S-532



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATL\_STAAM

S-533



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ATPA\_STAAM

S-534

Normalized Protein Abundance

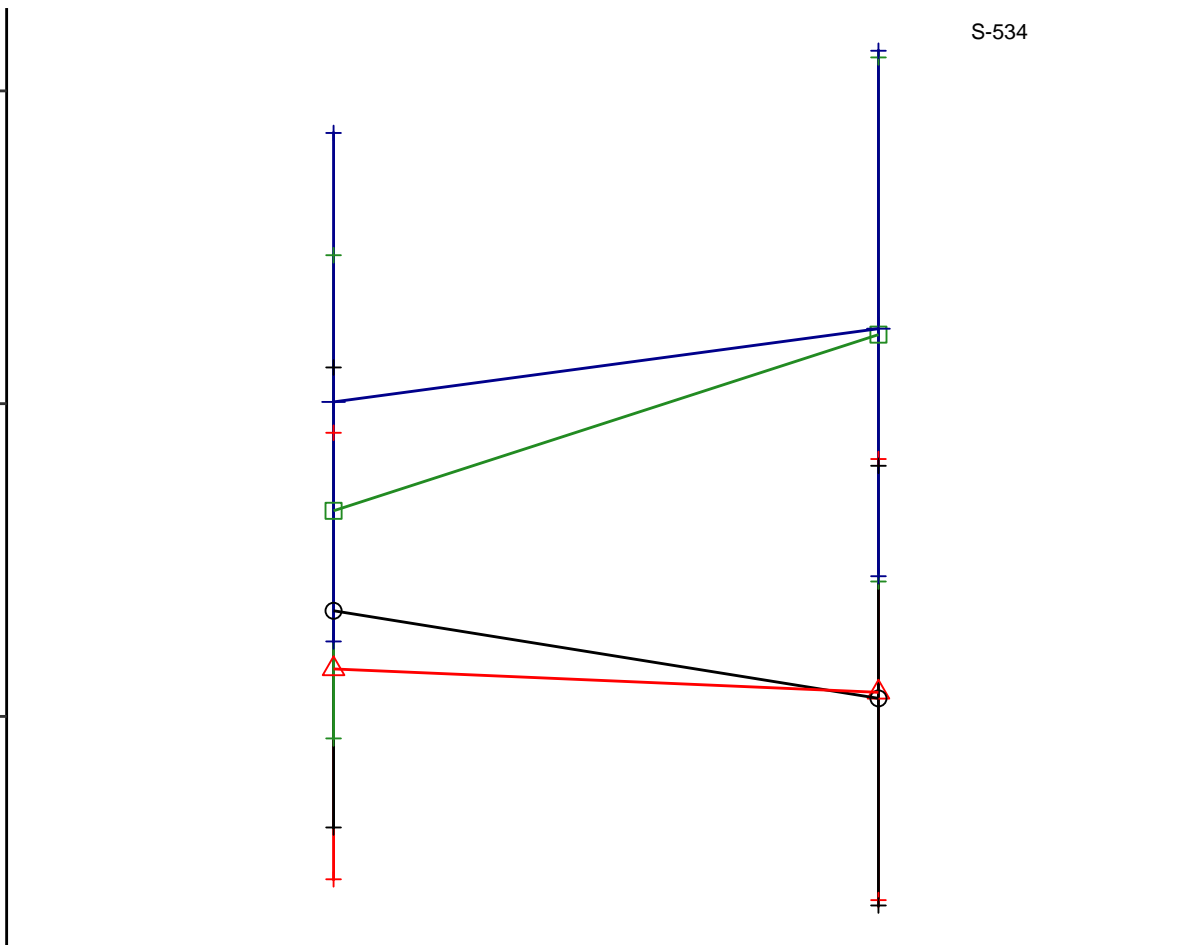
16000  
14000  
12000

TSB

Media

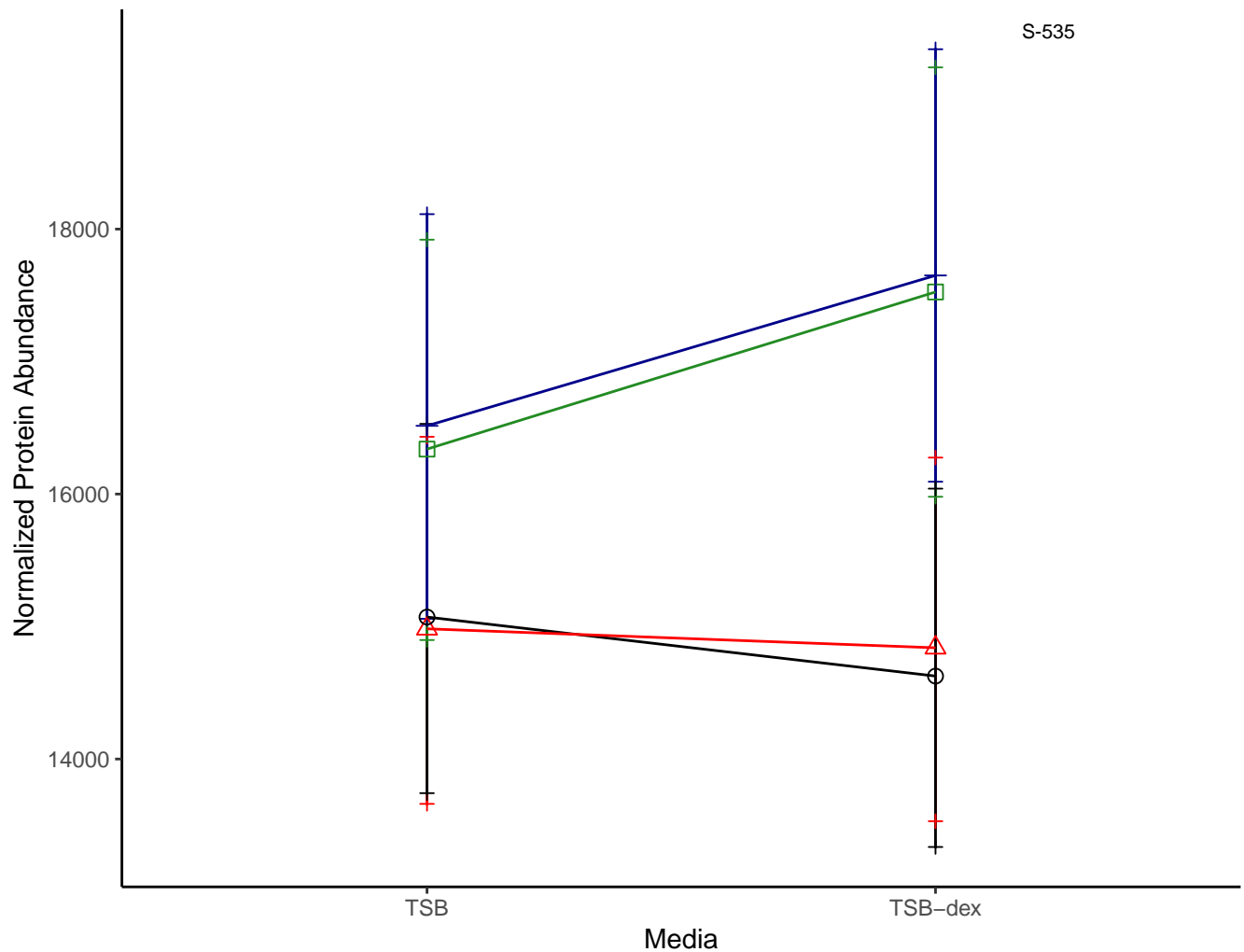
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ATPB\_STAAM

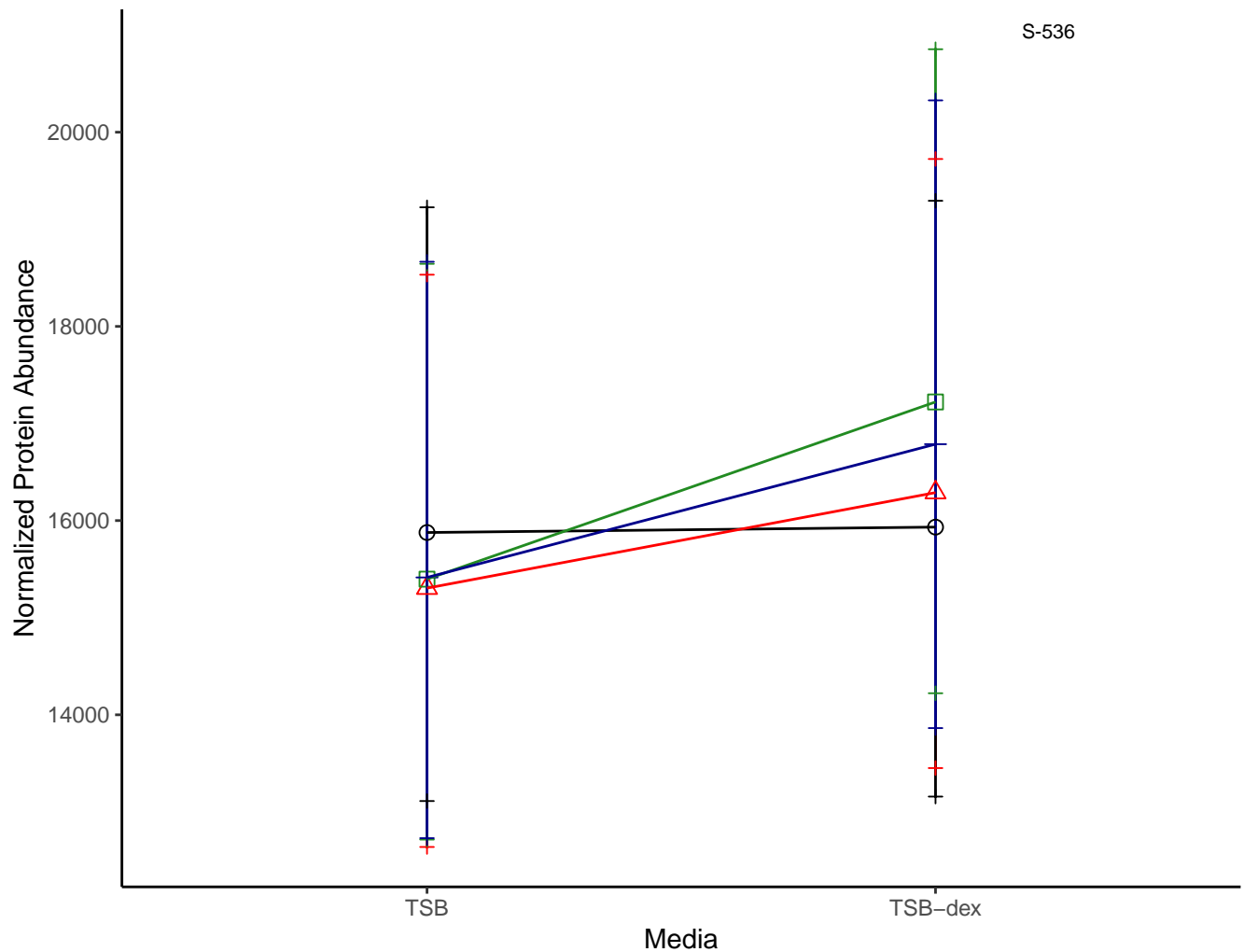
S-535



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPD\_STAAM

S-536

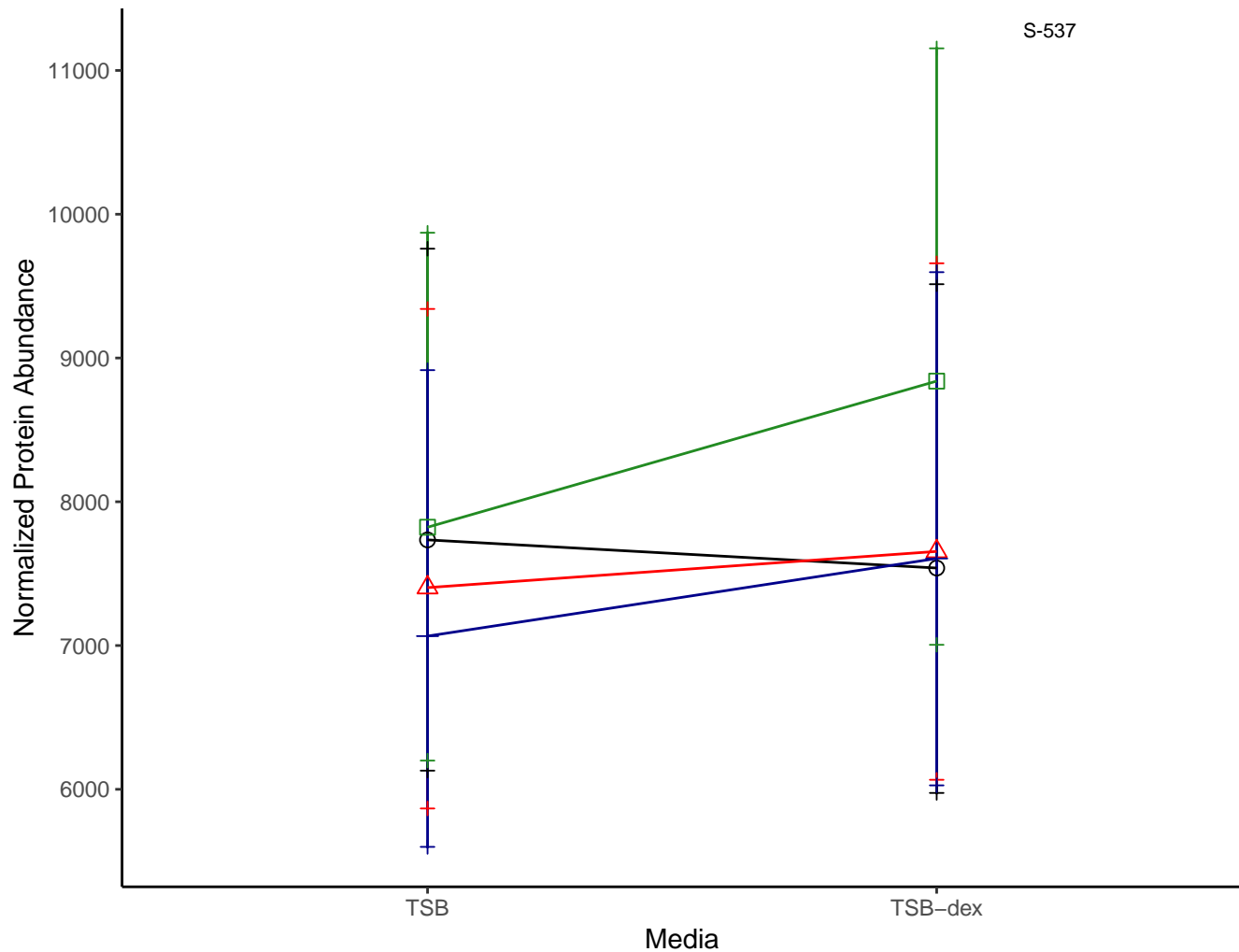


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ATPE\_STAAM

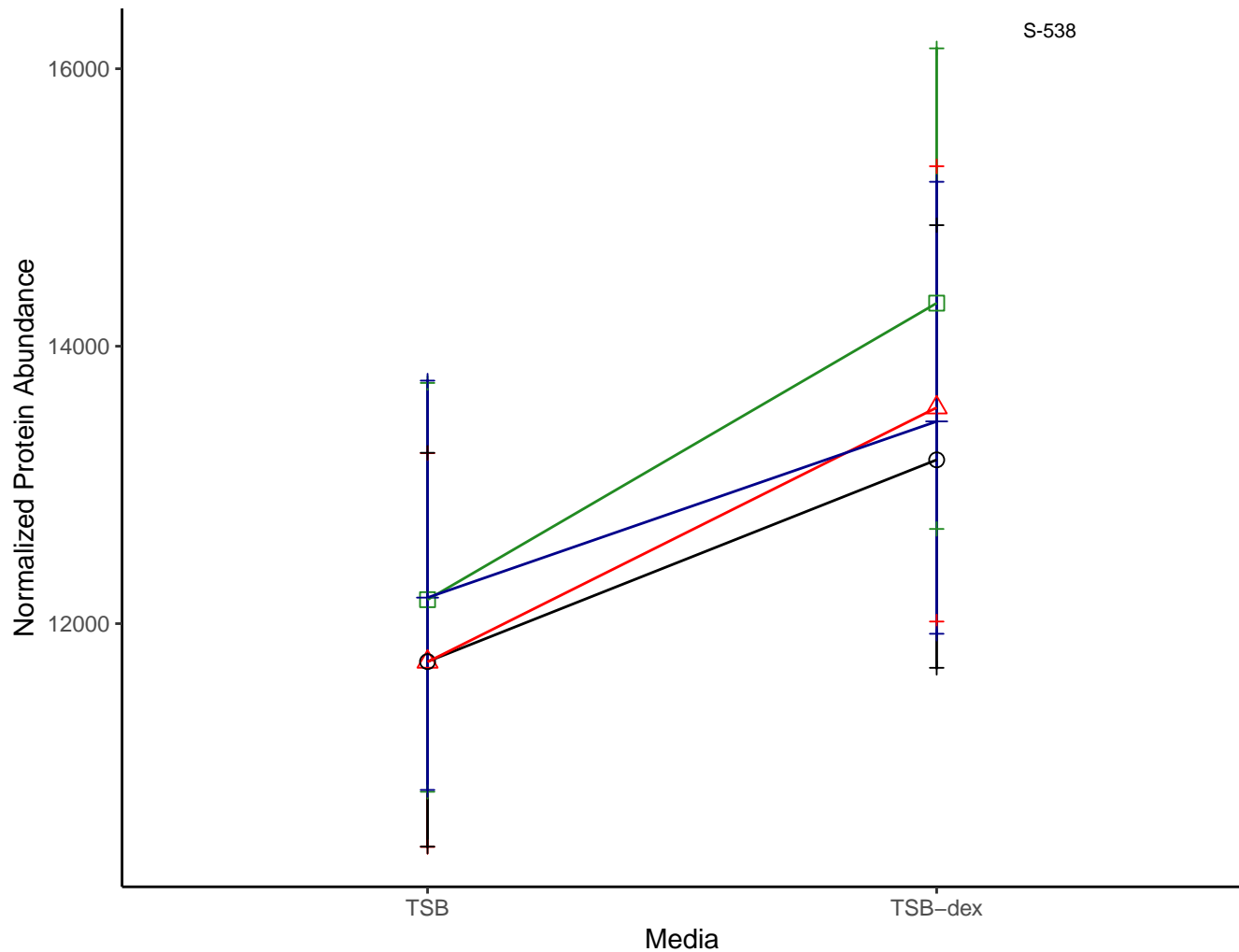
S-537



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# ATPF\_STAAM

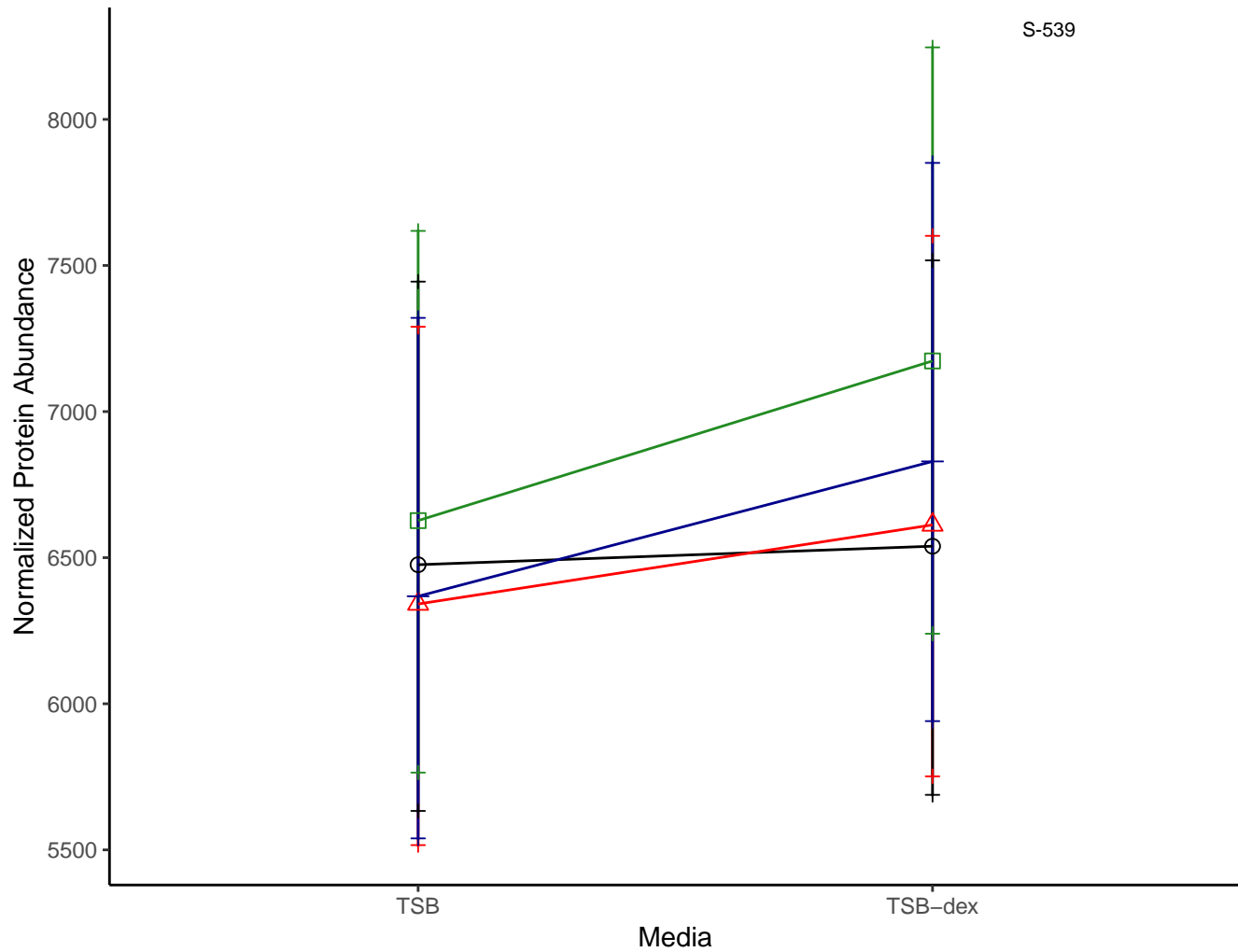
S-538



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# ATPG\_STAAM

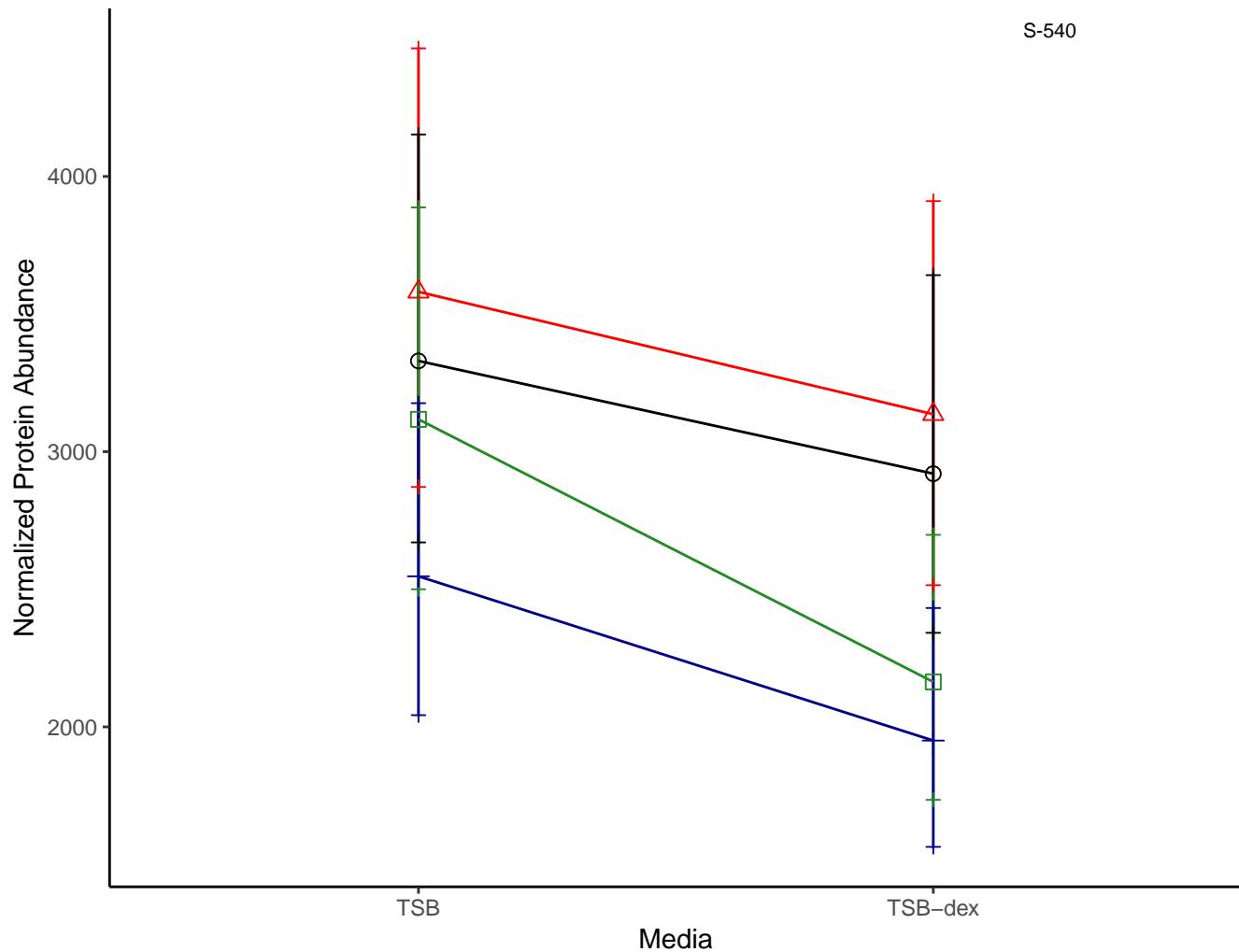
S-539



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# AZO1\_STAAM

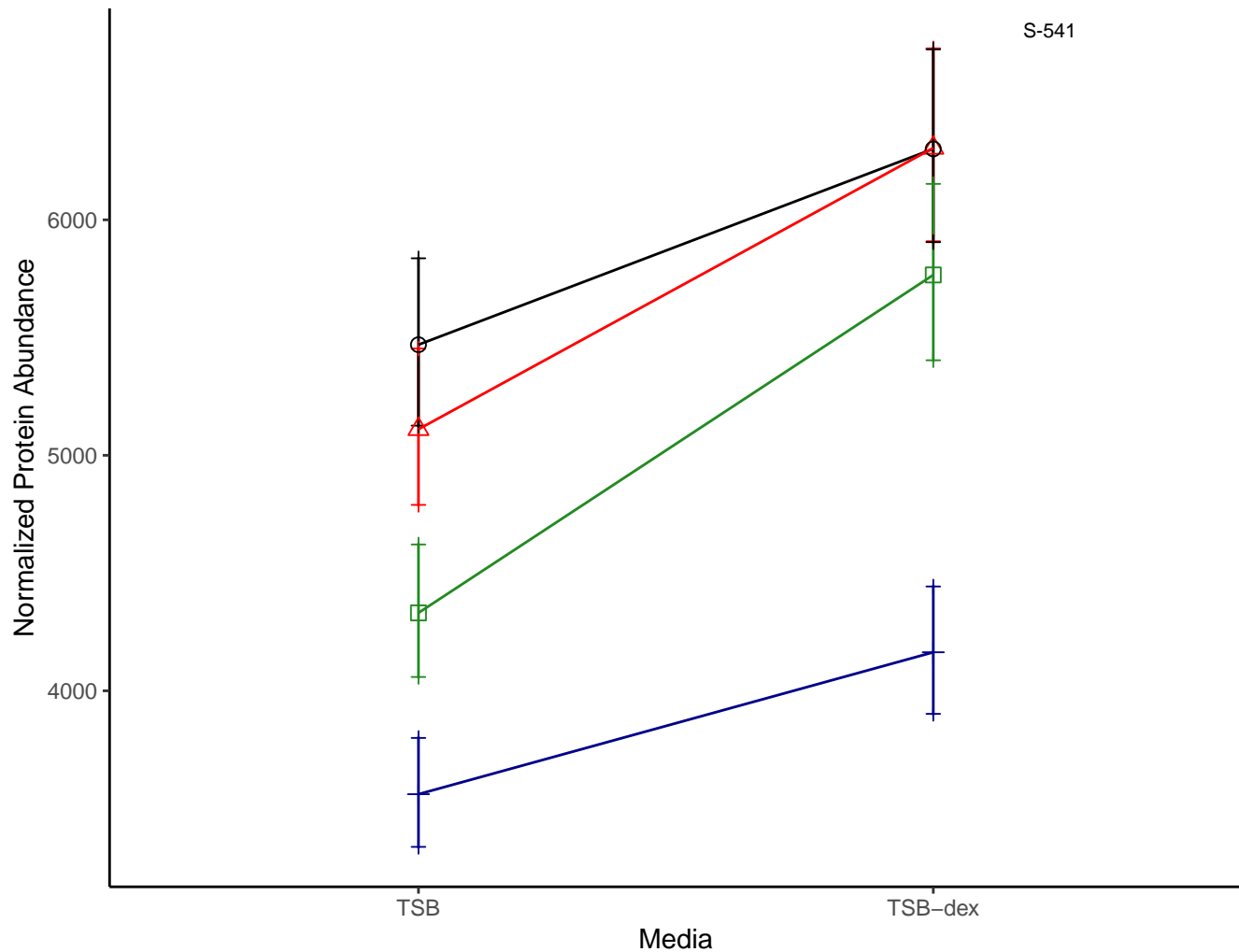
S-540



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# AZOR\_STAAM

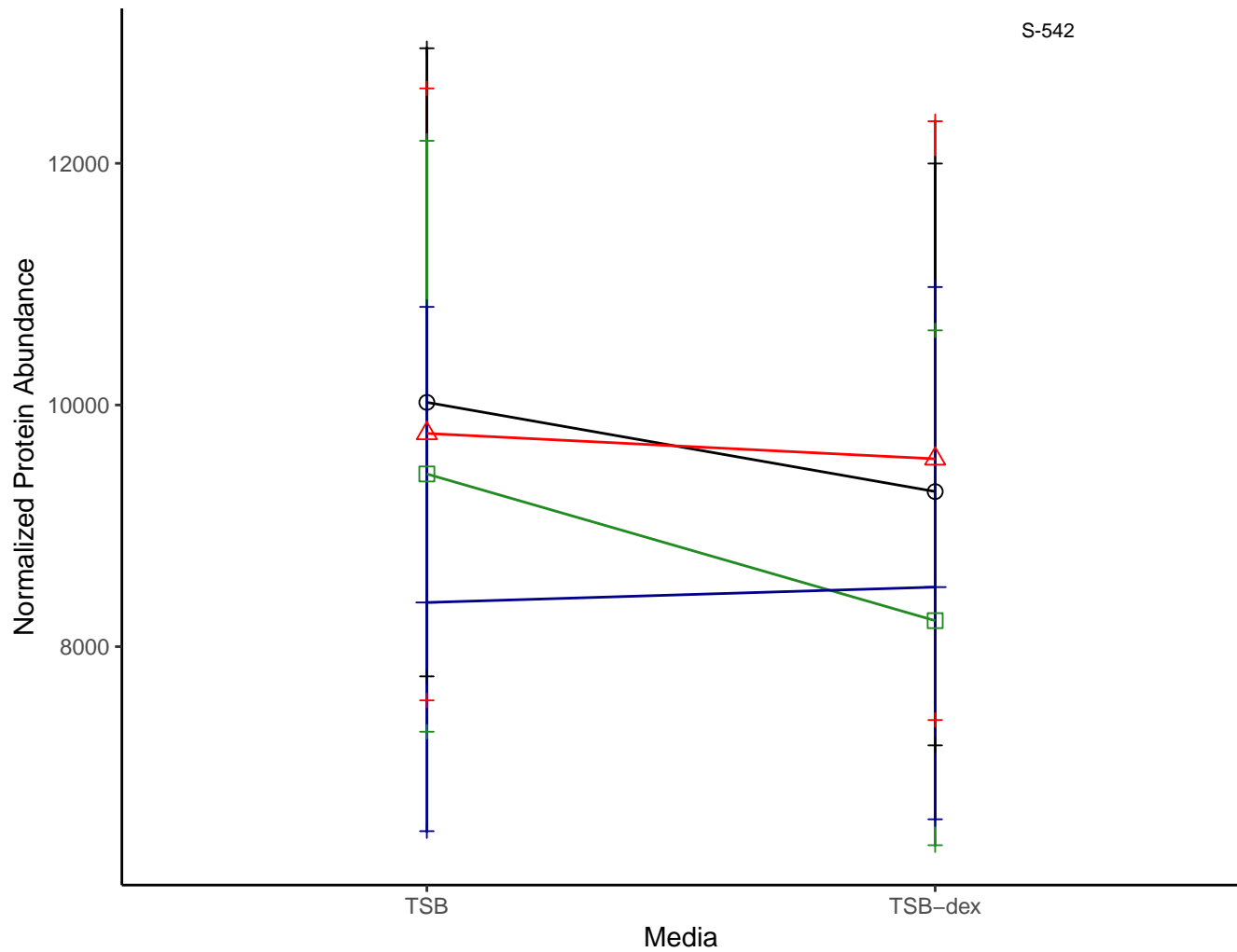
S-541



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# BSAA\_STAAM

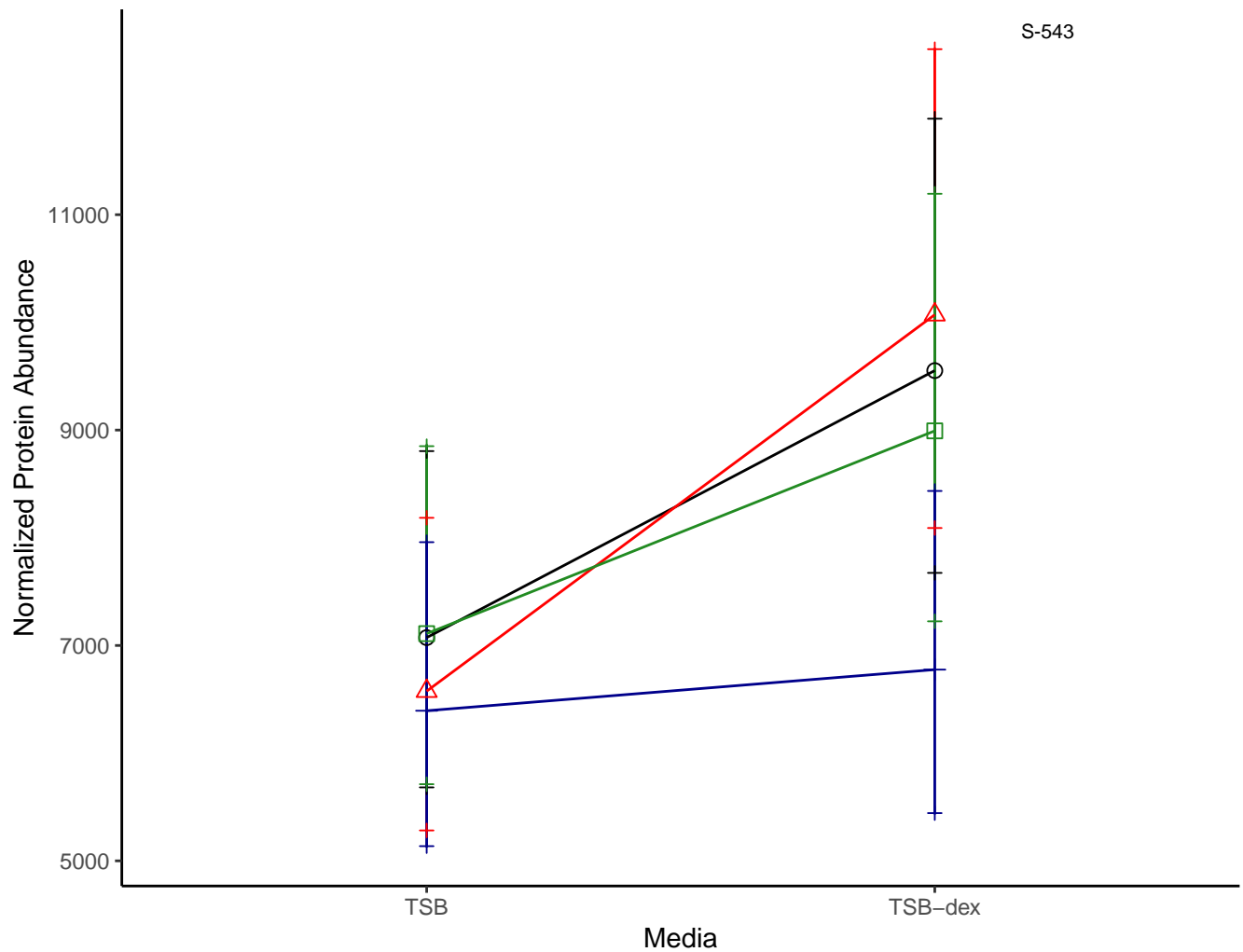
S-542



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# BUTA\_STAAM

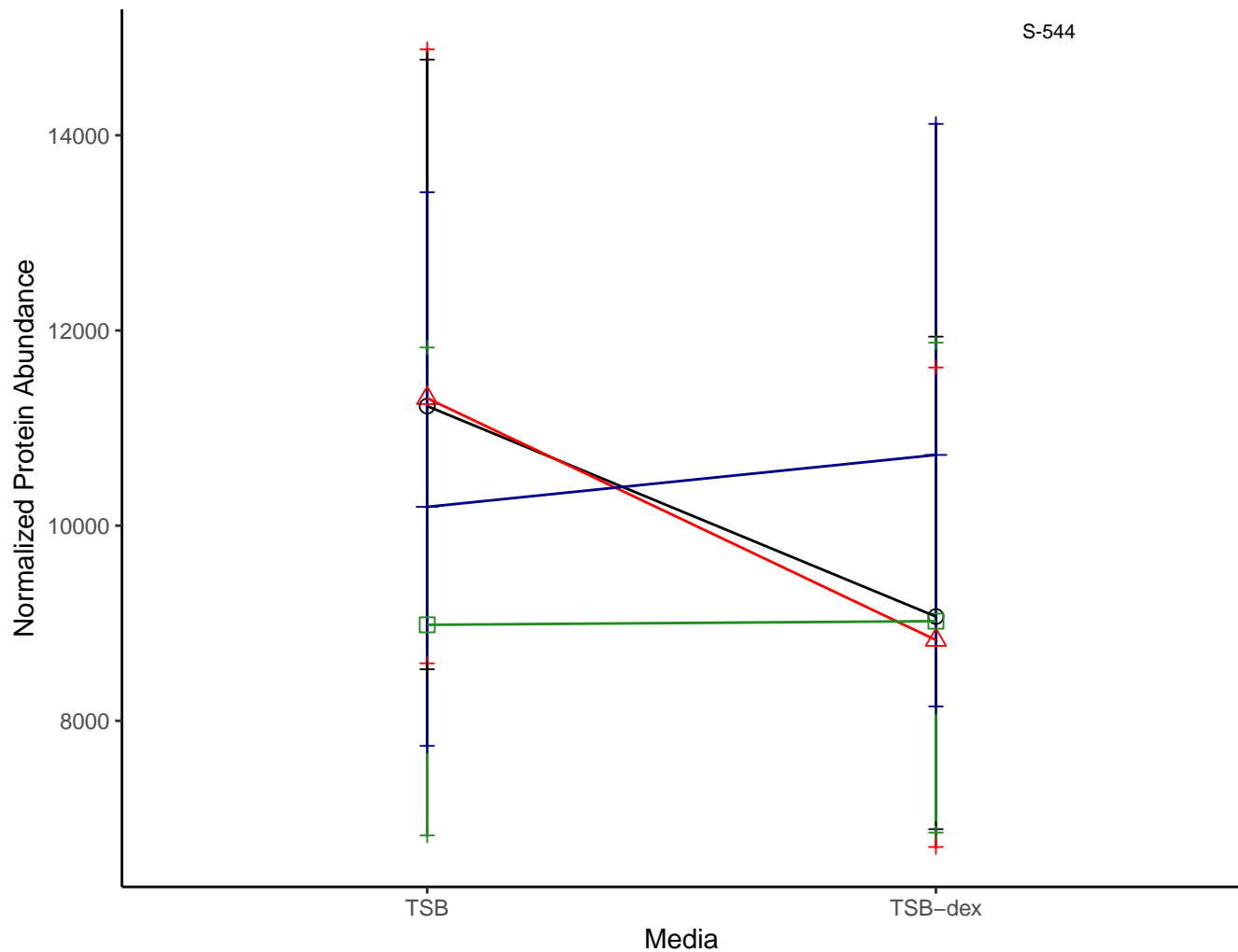
S-543



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CARA\_STAAM

S-544

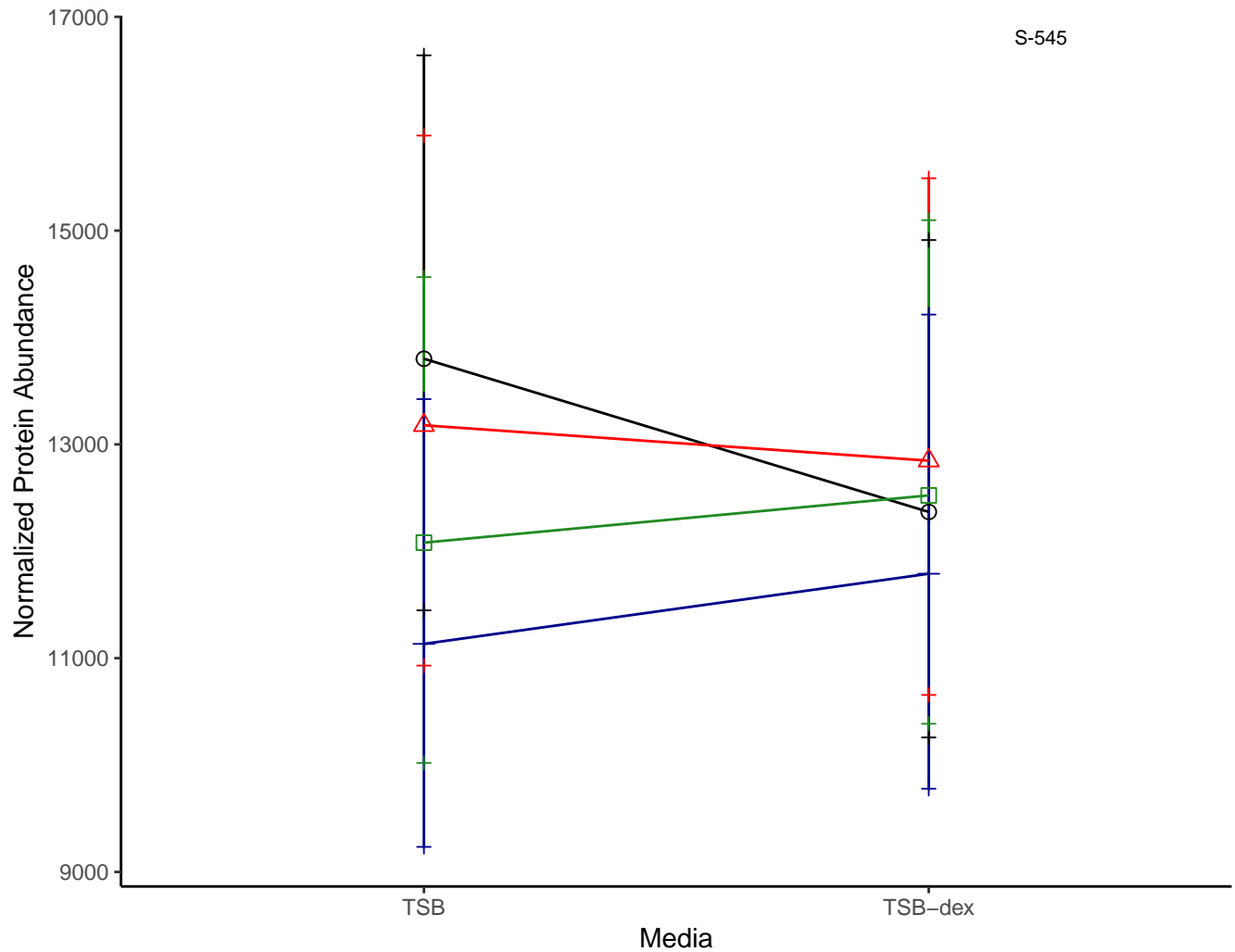


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# CARB\_STAAM

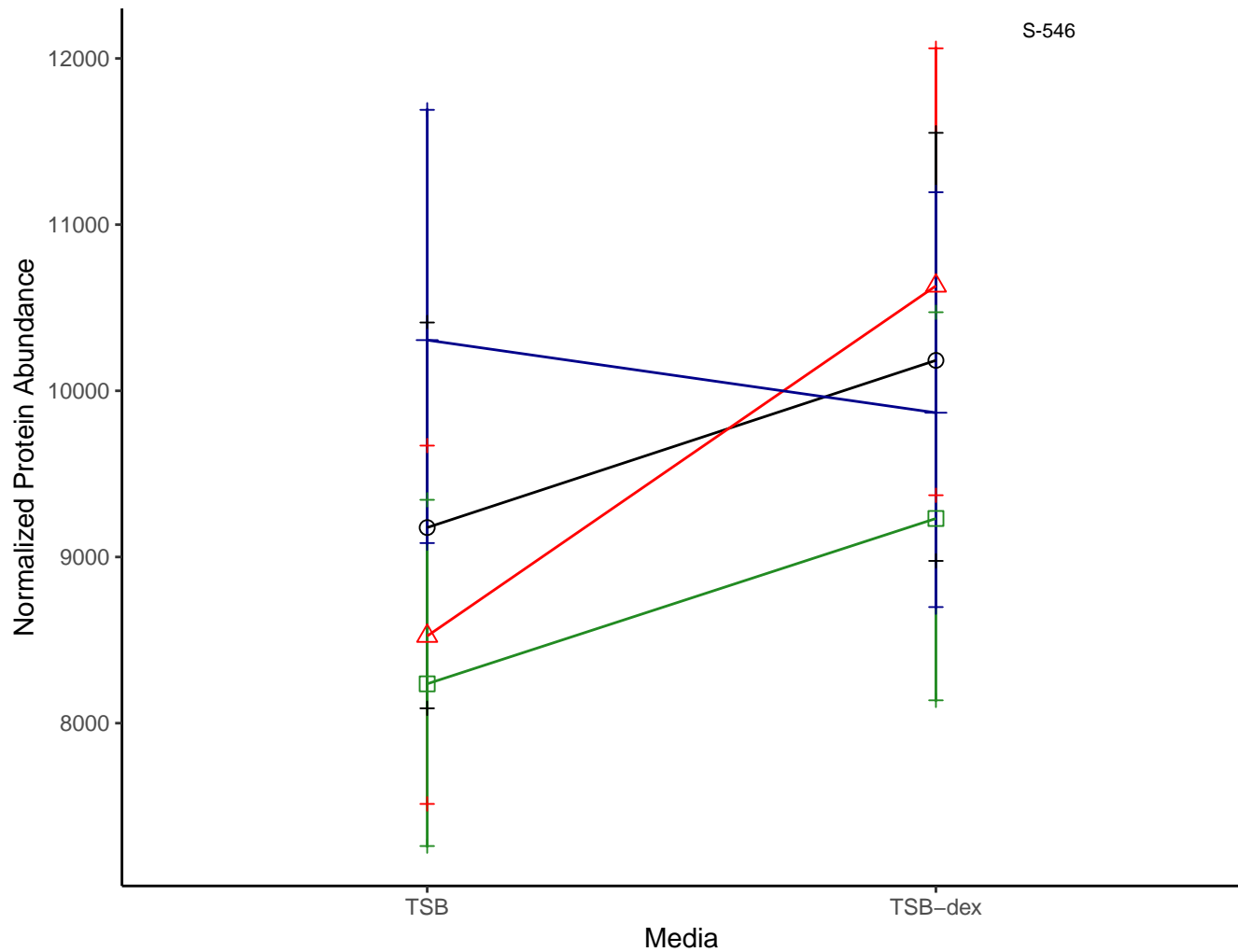
S-545



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# CATA\_STAAM

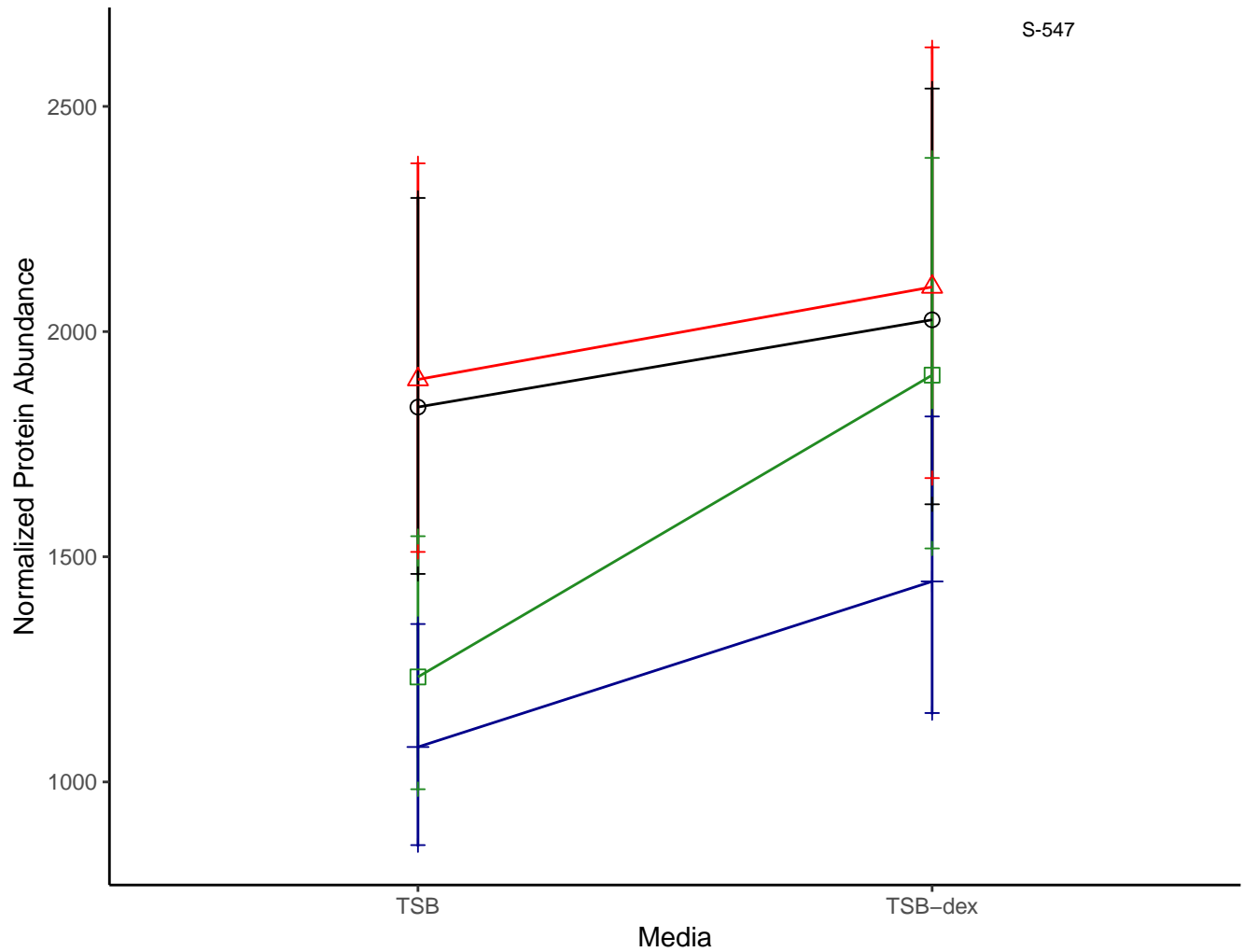
S-546



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CCPA\_STAAM

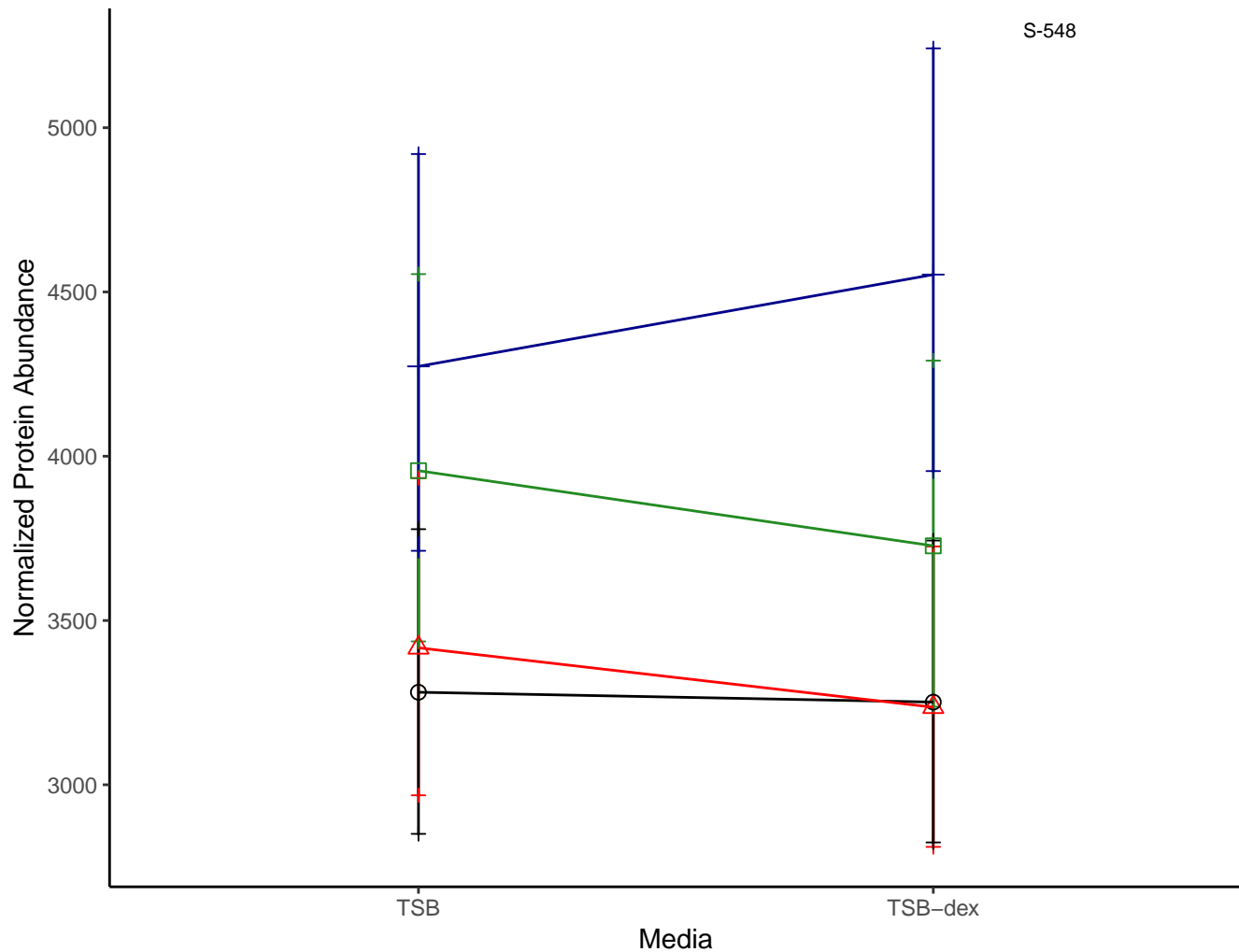
S-547



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CDR\_STAAM

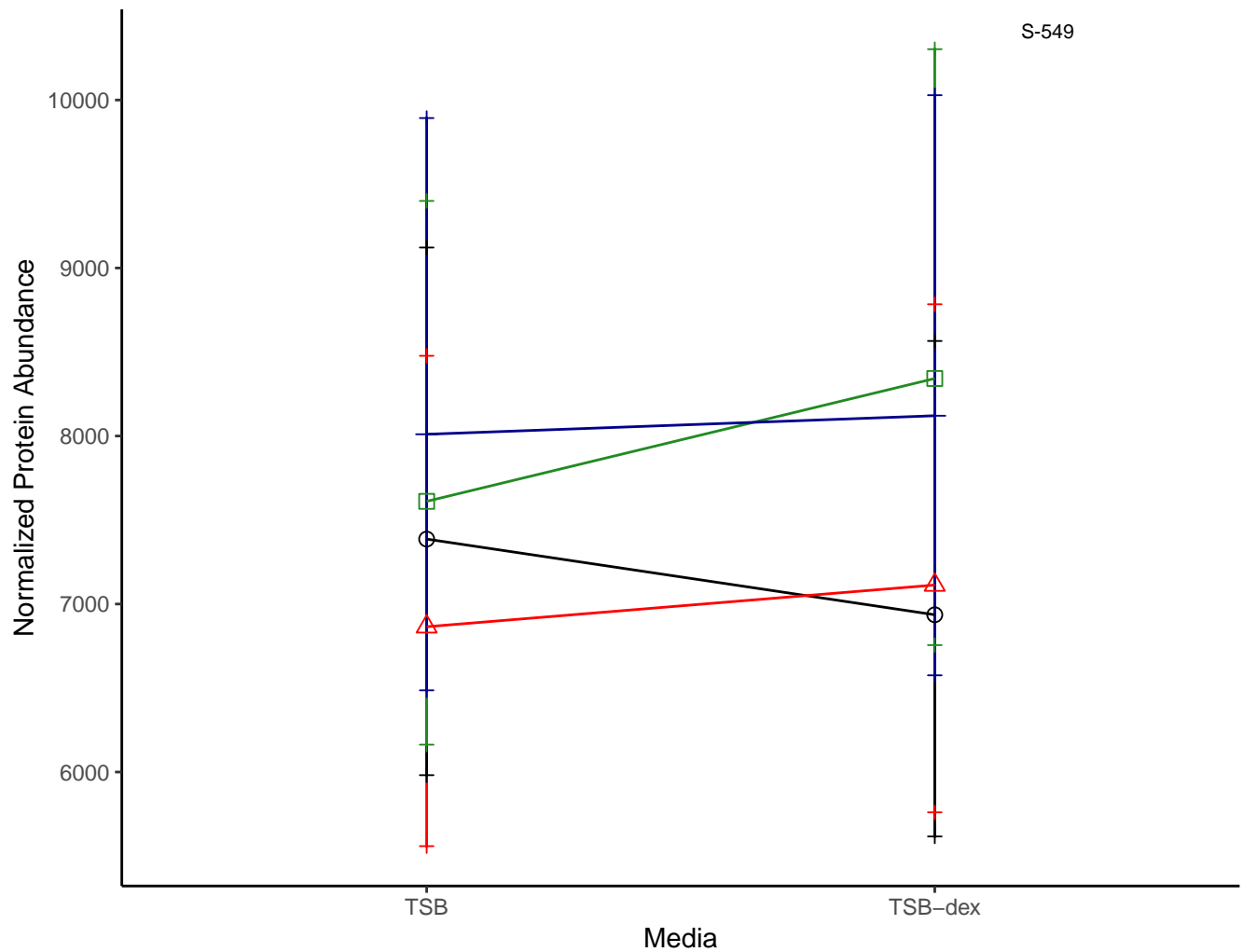
S-548



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CH10\_STAAM

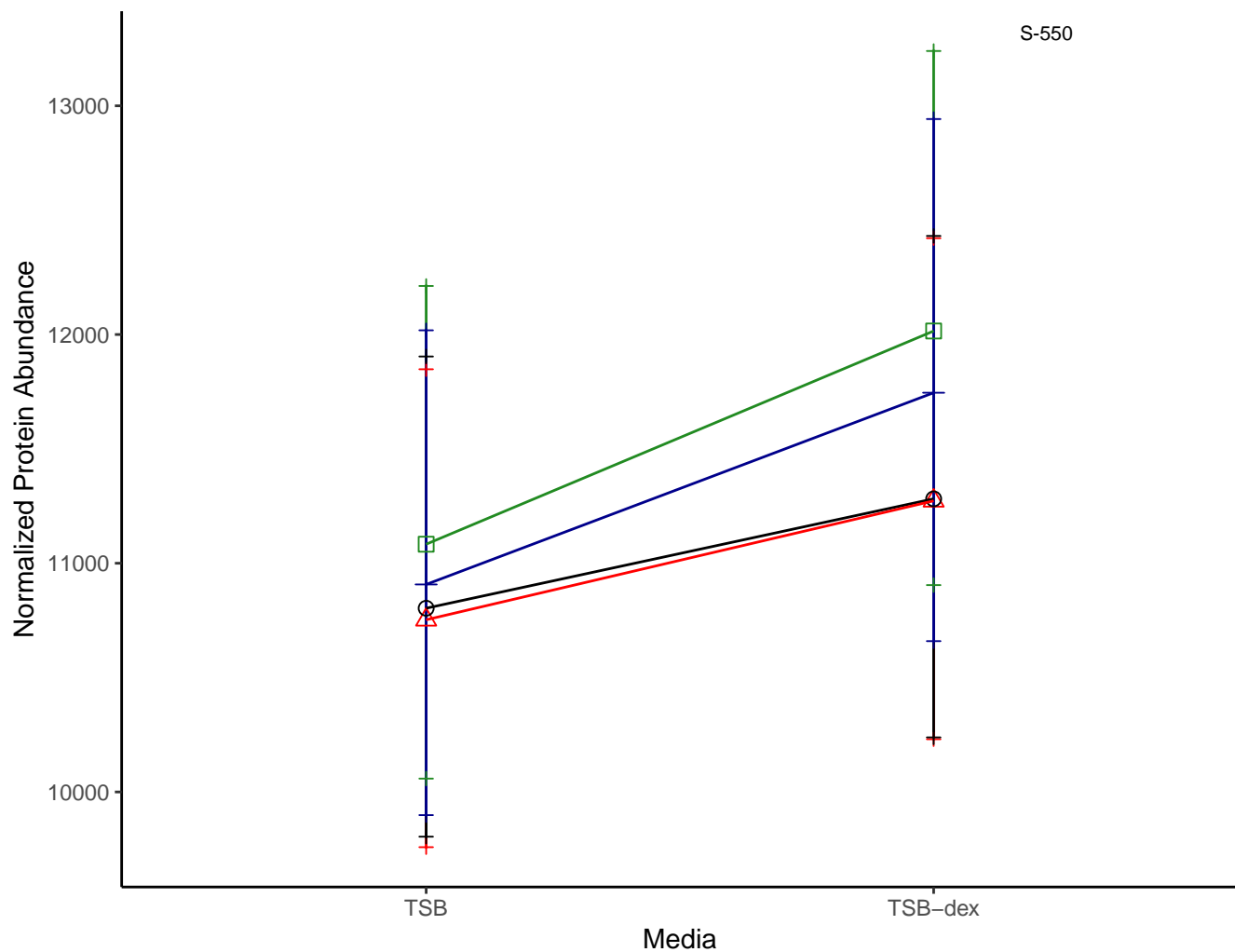
S-549



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CH60\_STAAM

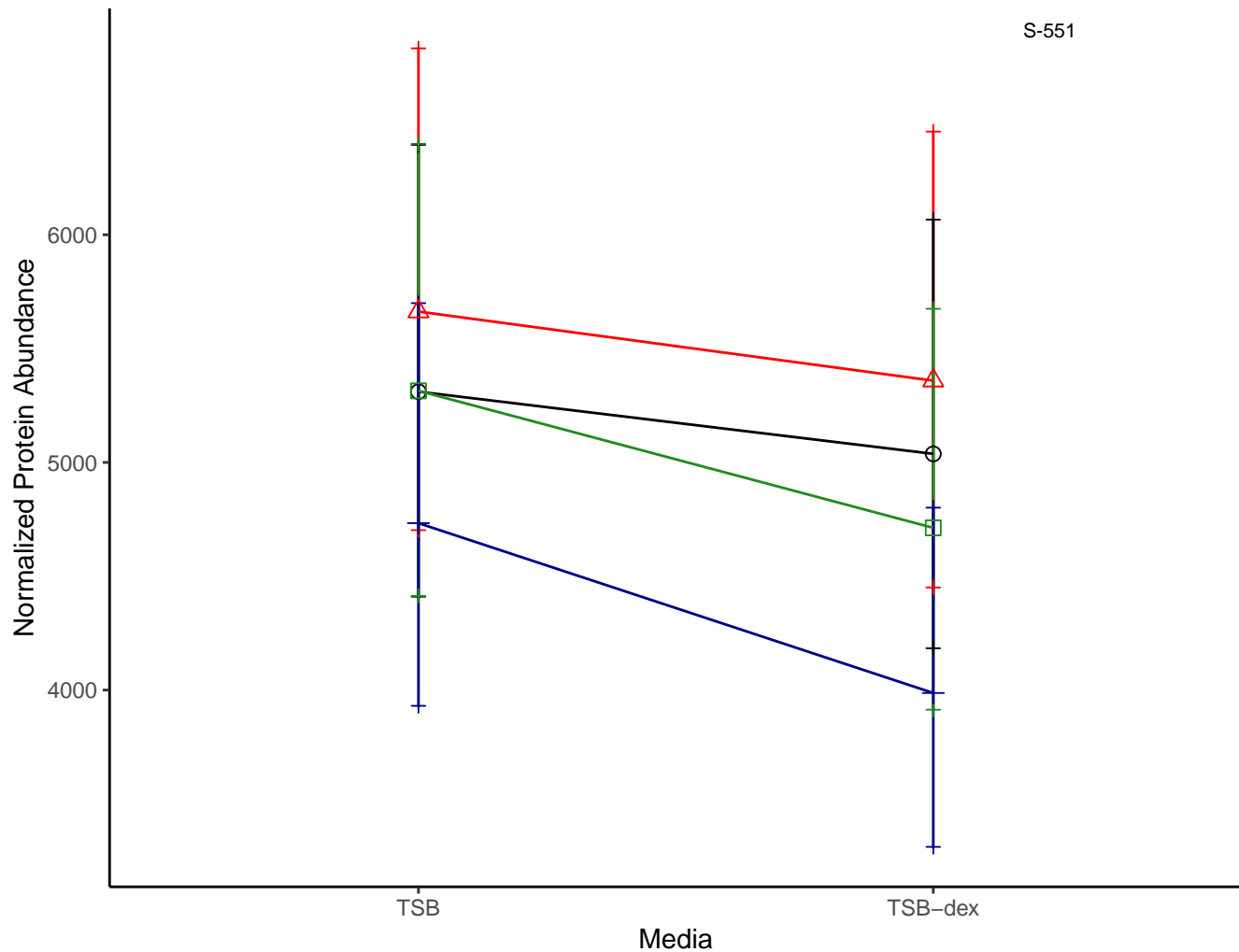
S-550



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CLPB\_STAAM

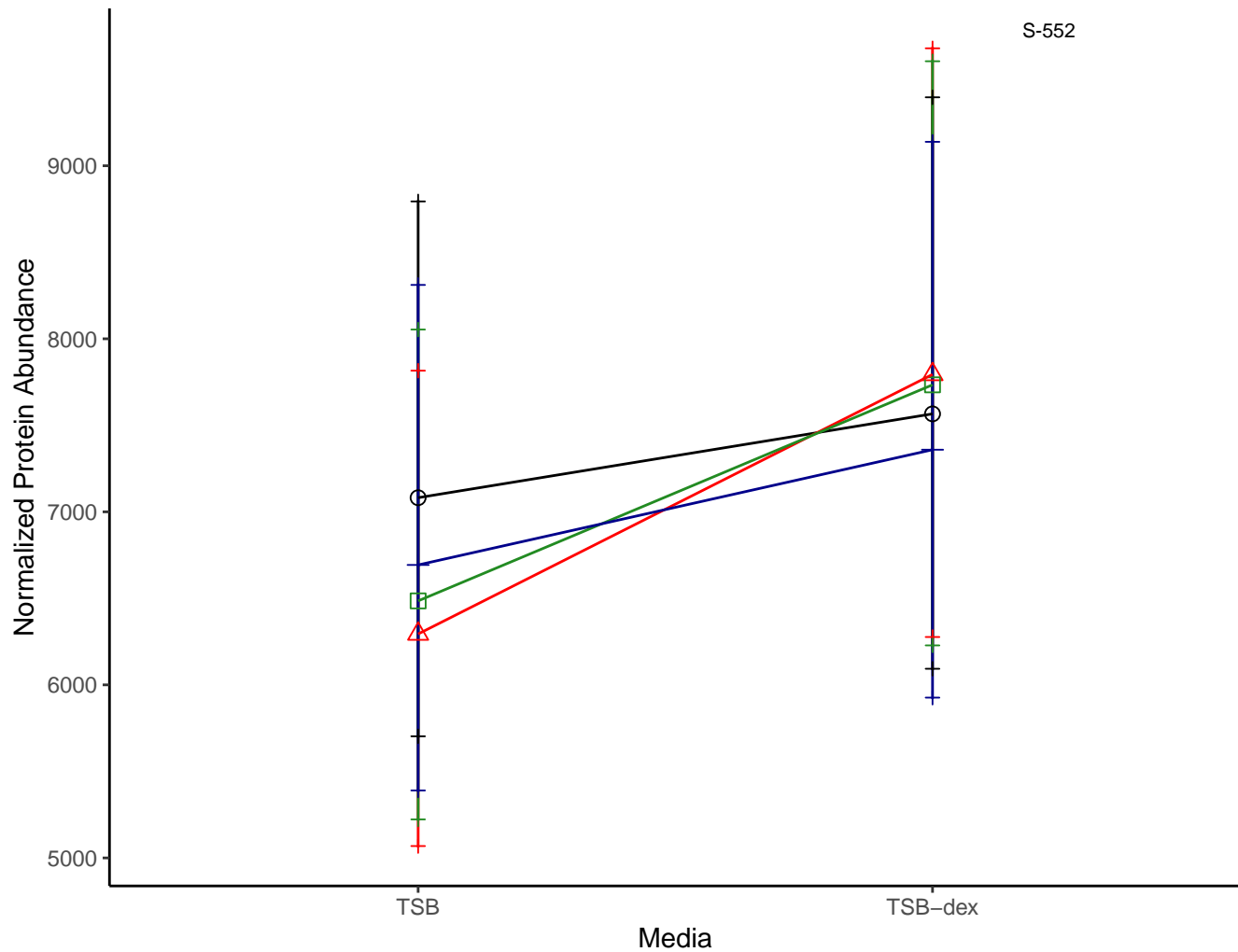
S-551



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CLPC\_STAAM

S-552

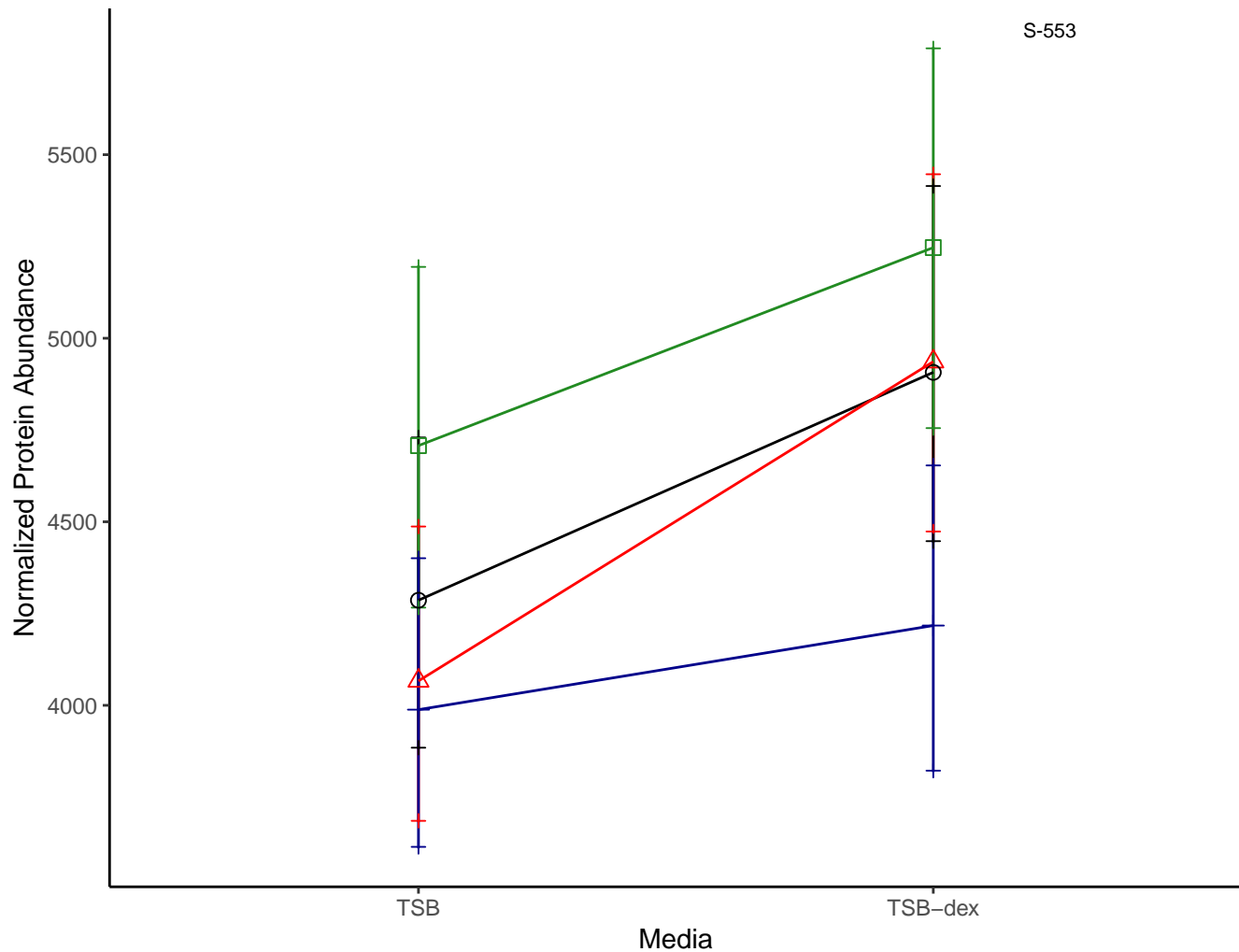


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# CLPL\_STAAM

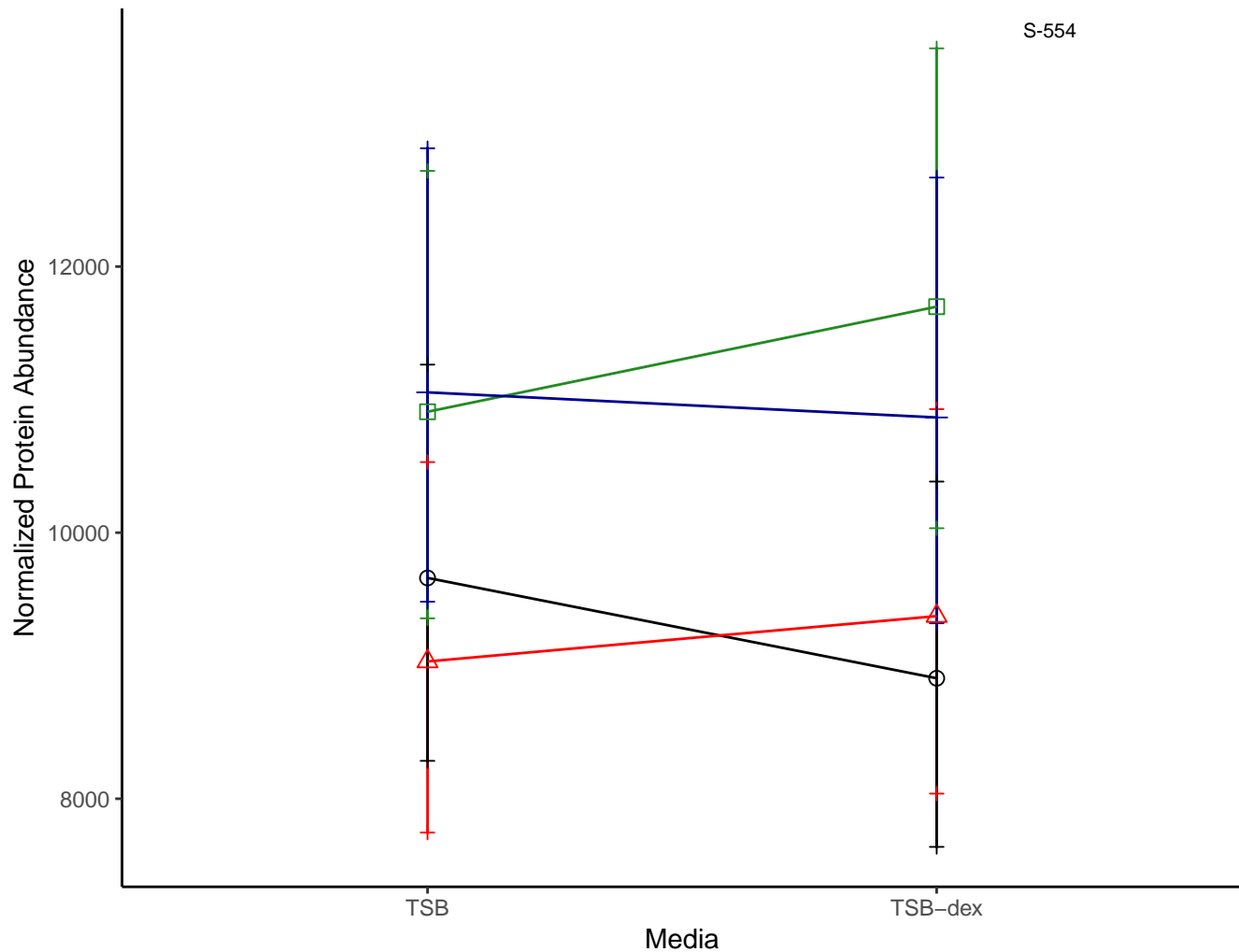
S-553



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CLPP\_STAAM

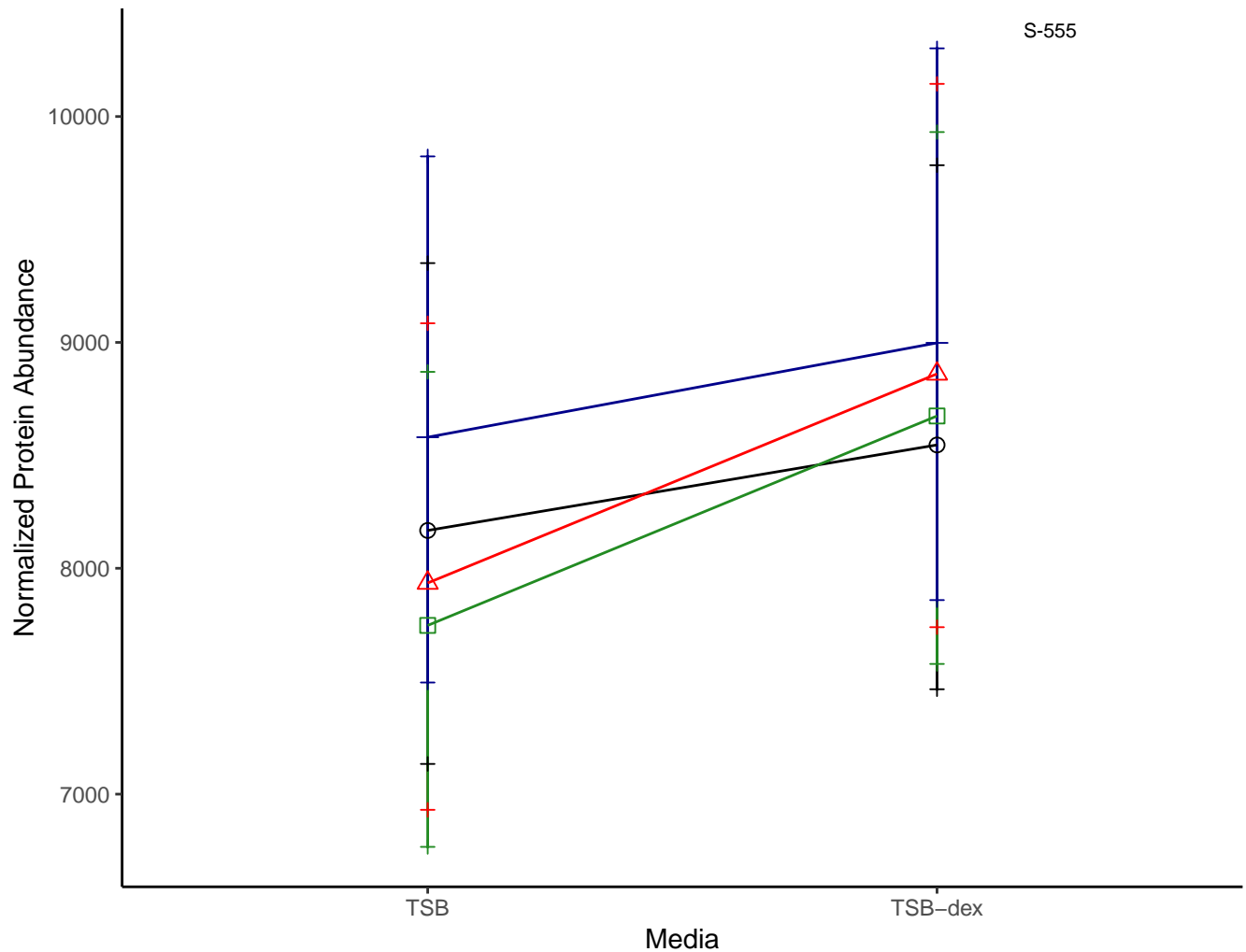
S-554



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CLPX\_STAAM

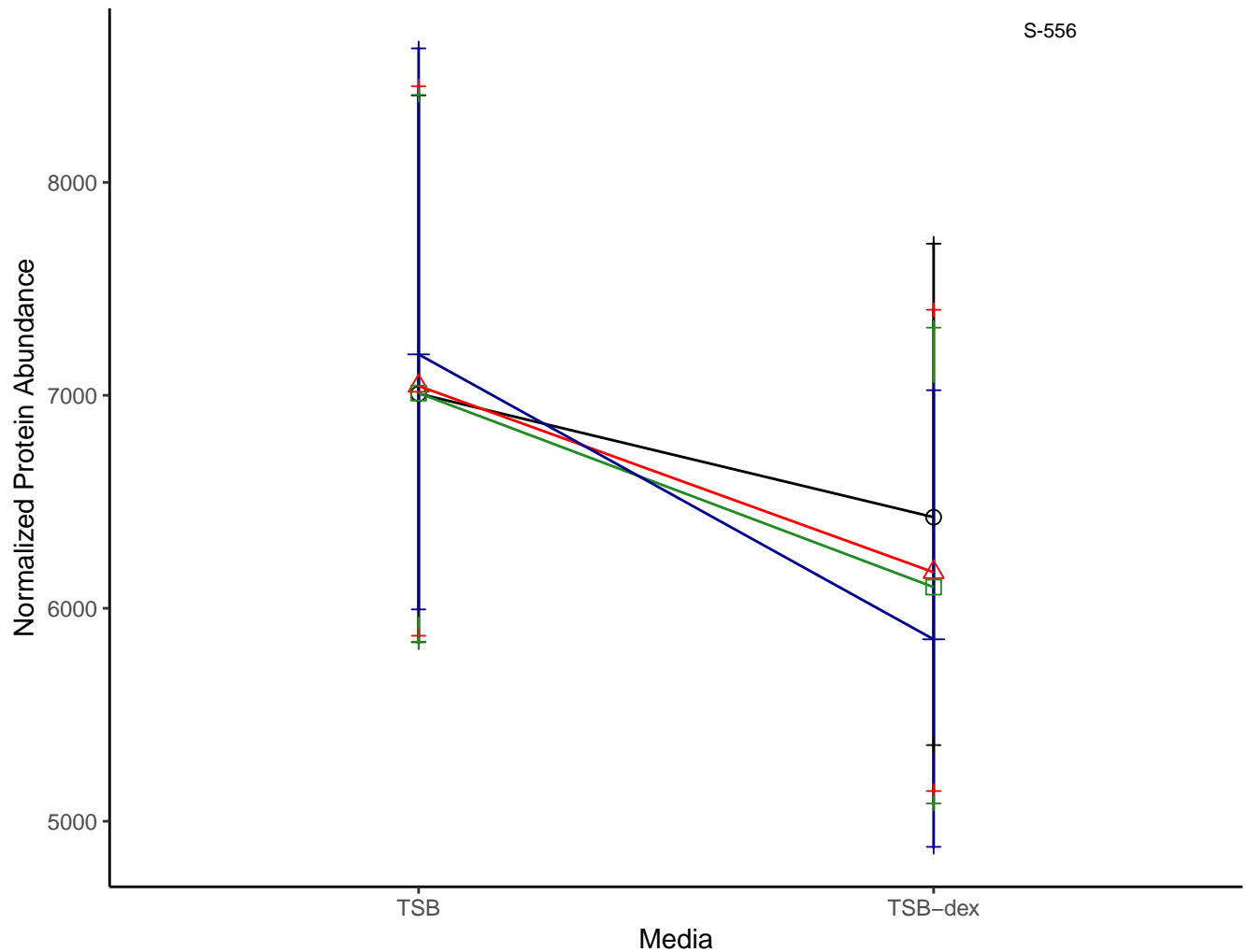
S-555



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CODY\_STAAM

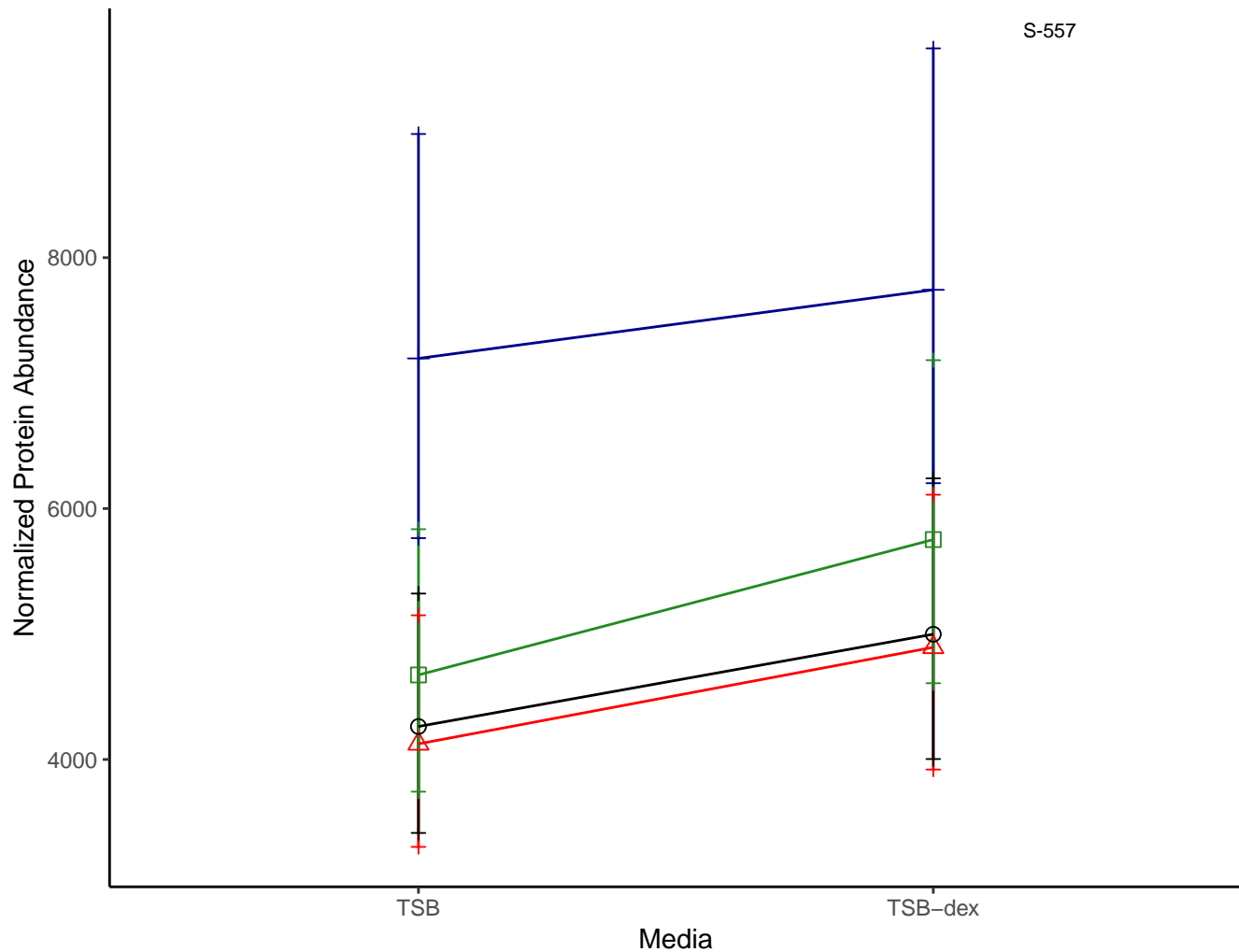
S-556



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# COPZ\_STAAM

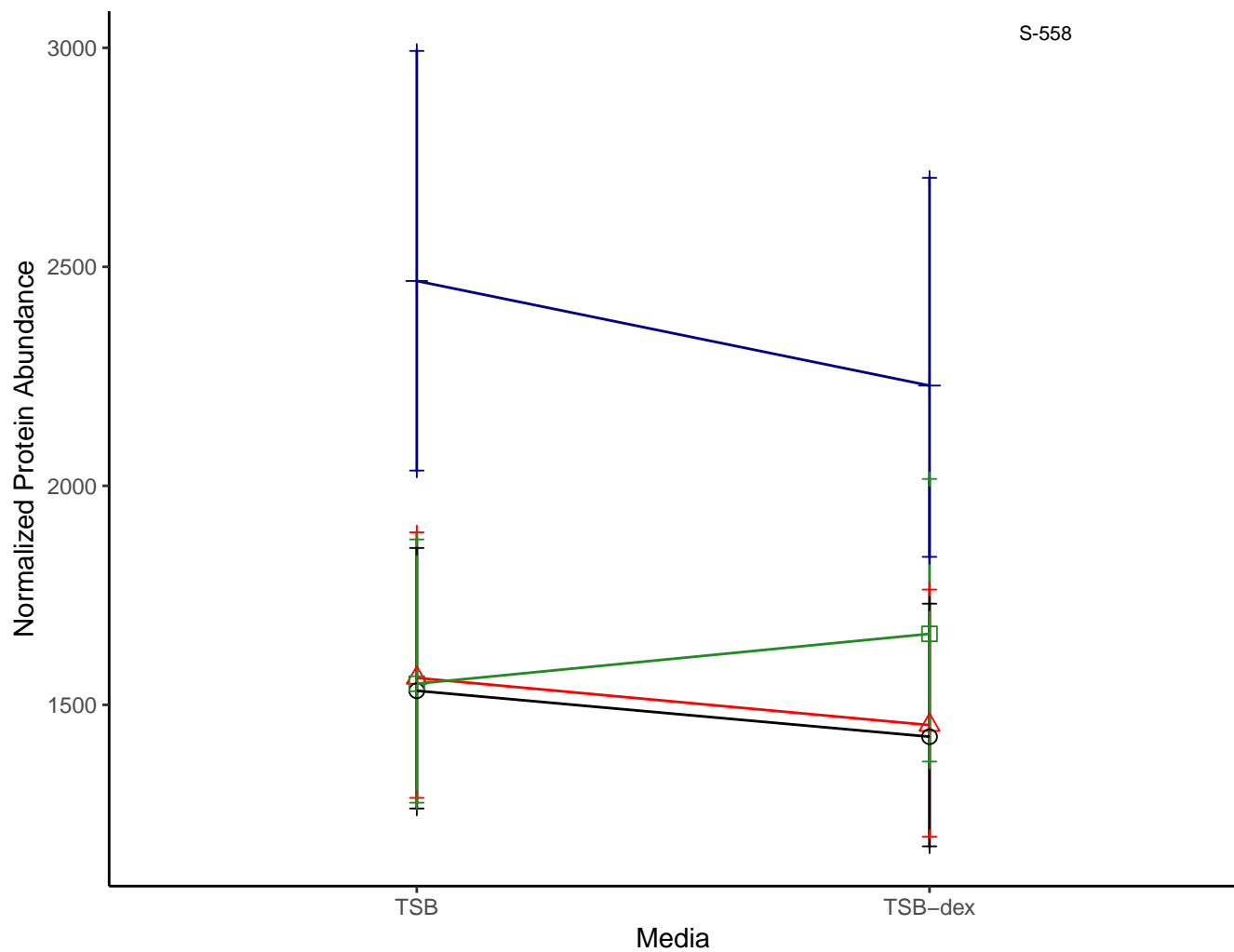
S-557



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CRTN\_STAAM

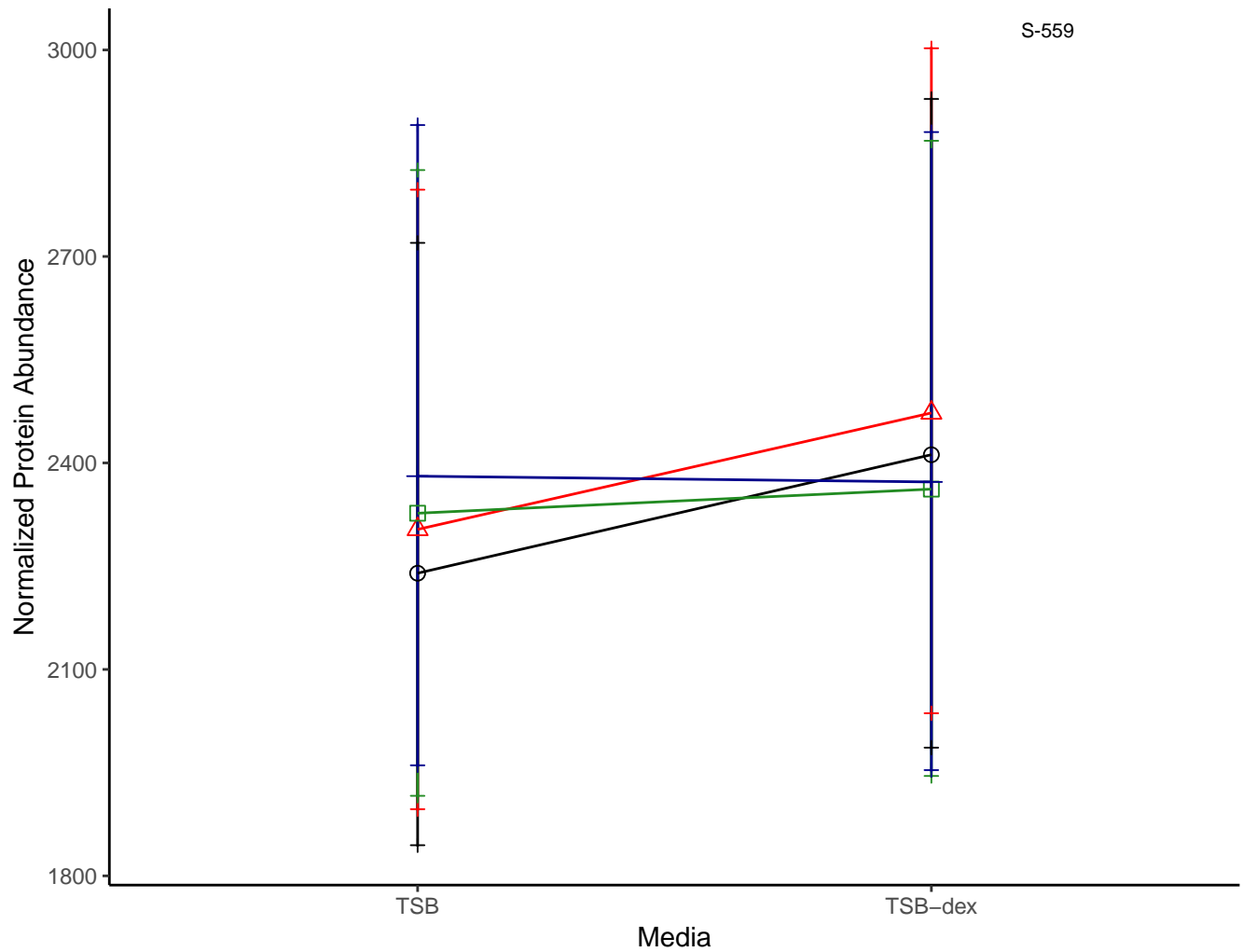
S-558



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CSD\_STAAM

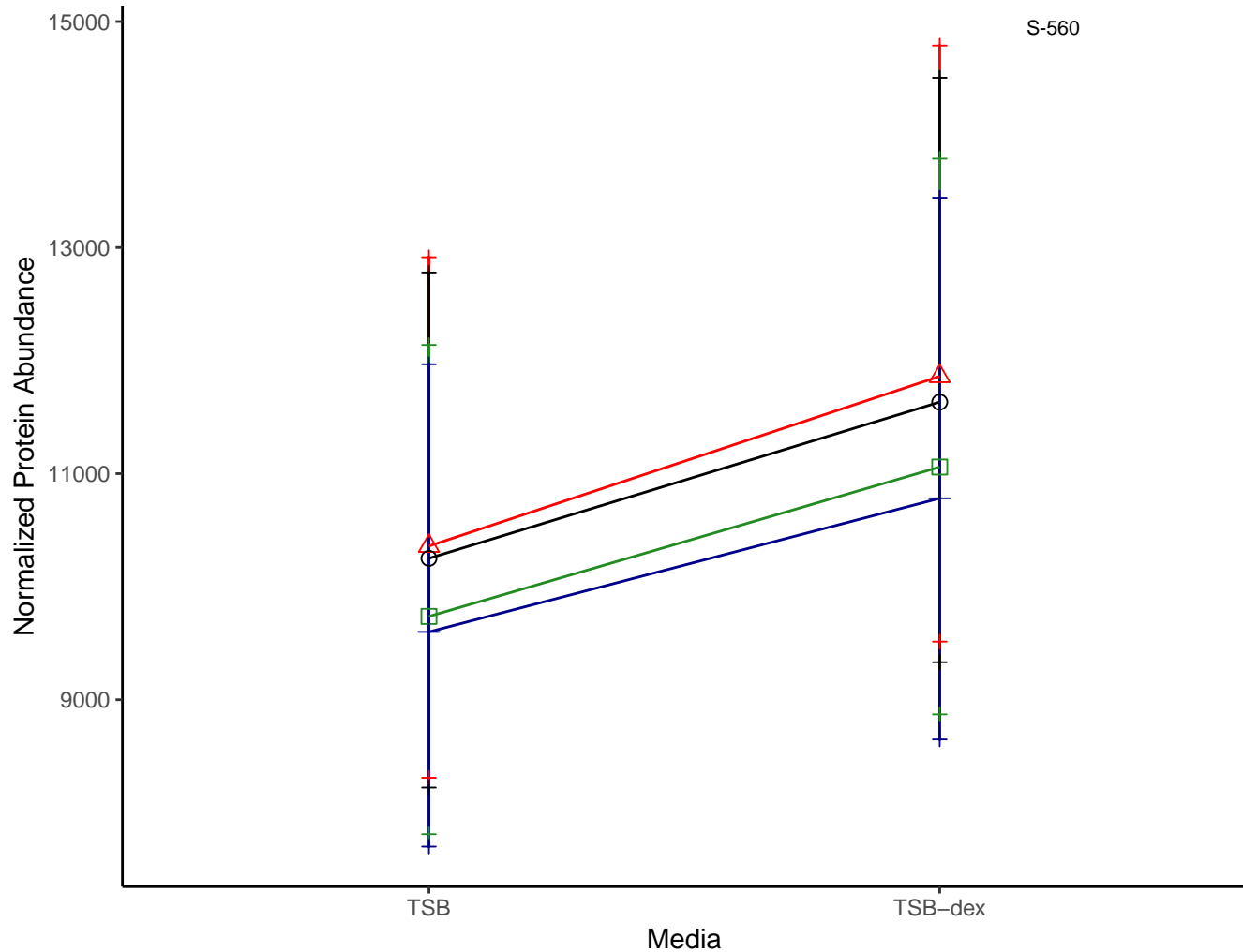
S-559



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CSHA\_STAAM

S-560

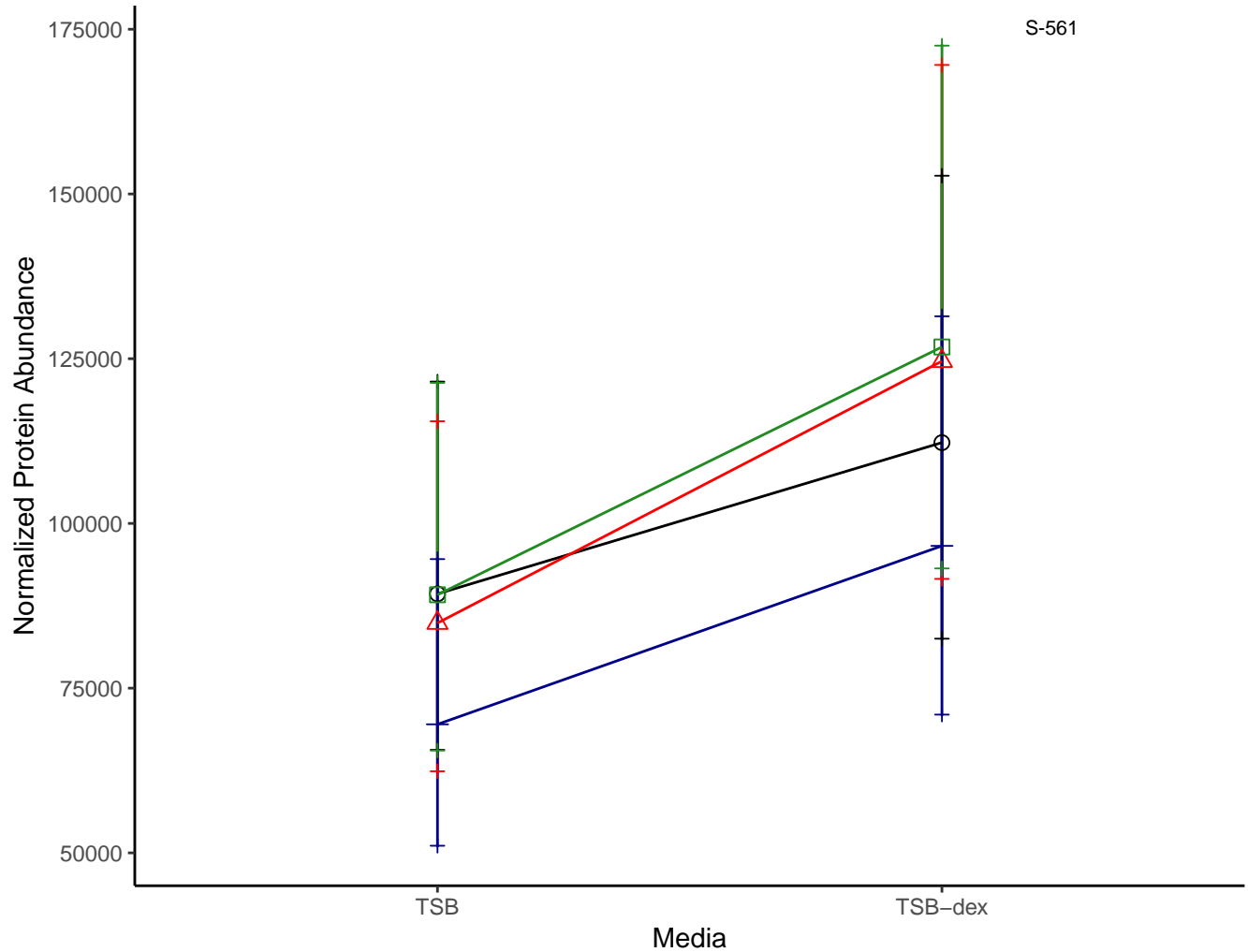


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# CSPA\_STAAM

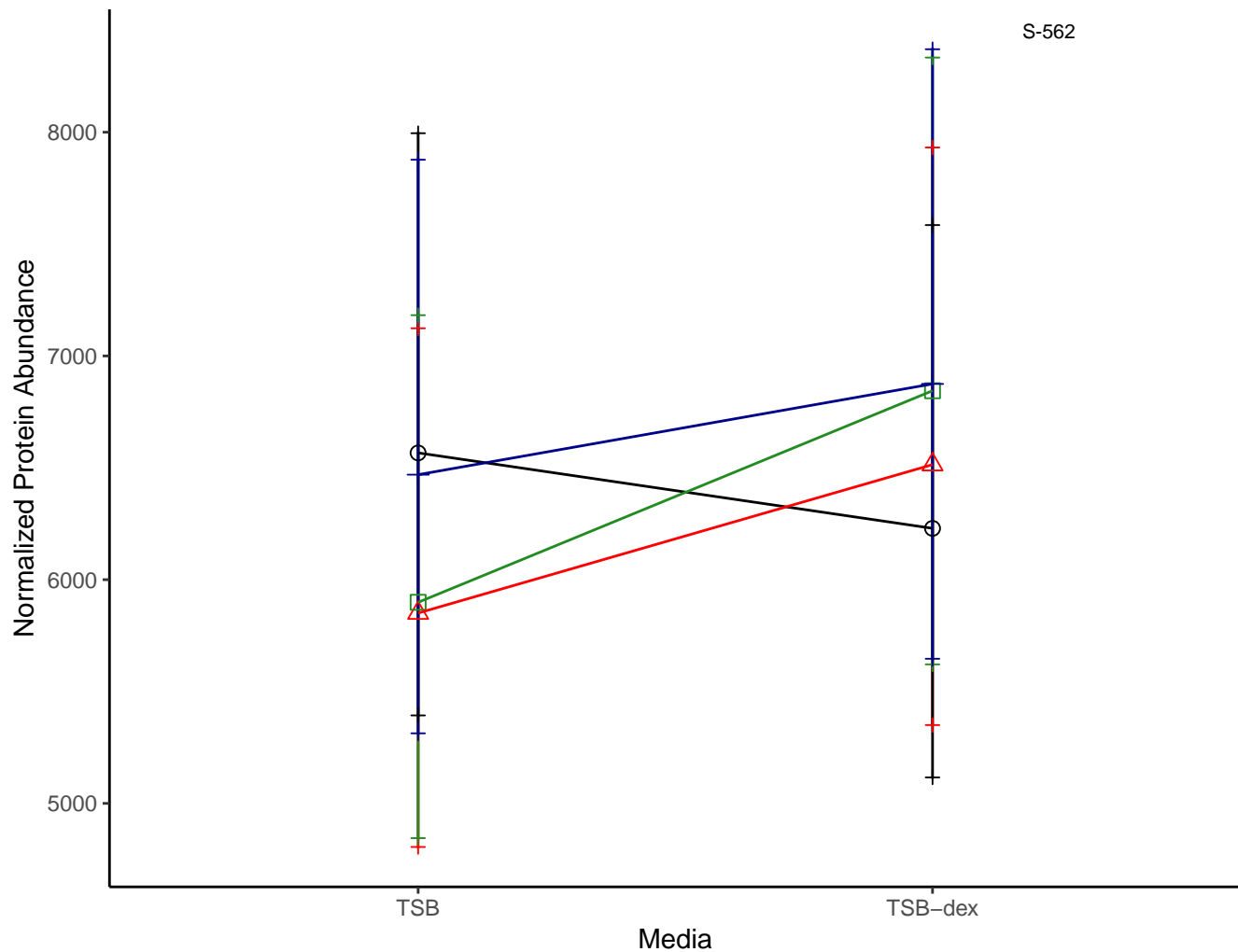
S-561



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# CTPAL\_STAAM

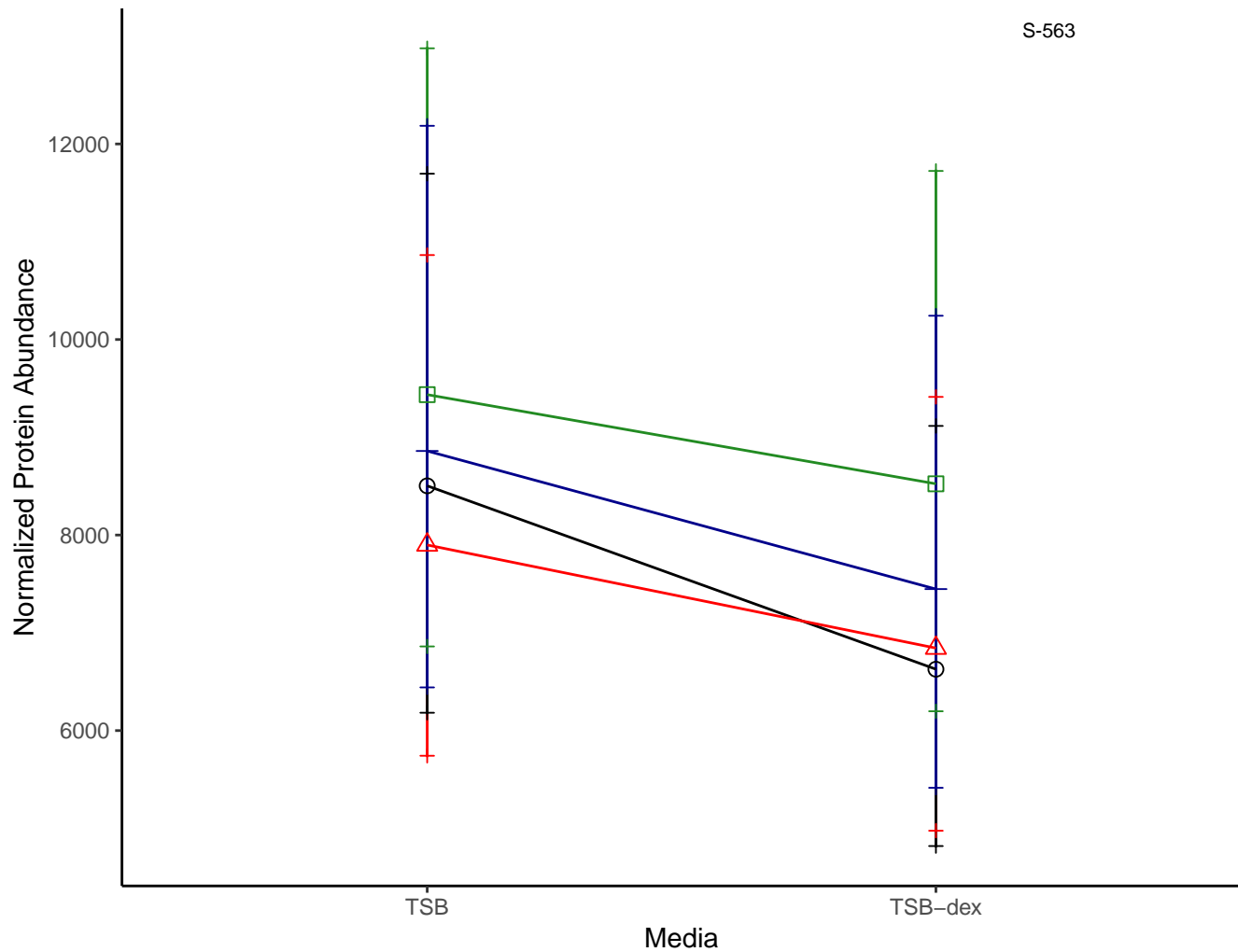
S-562



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CVFB\_STAAM

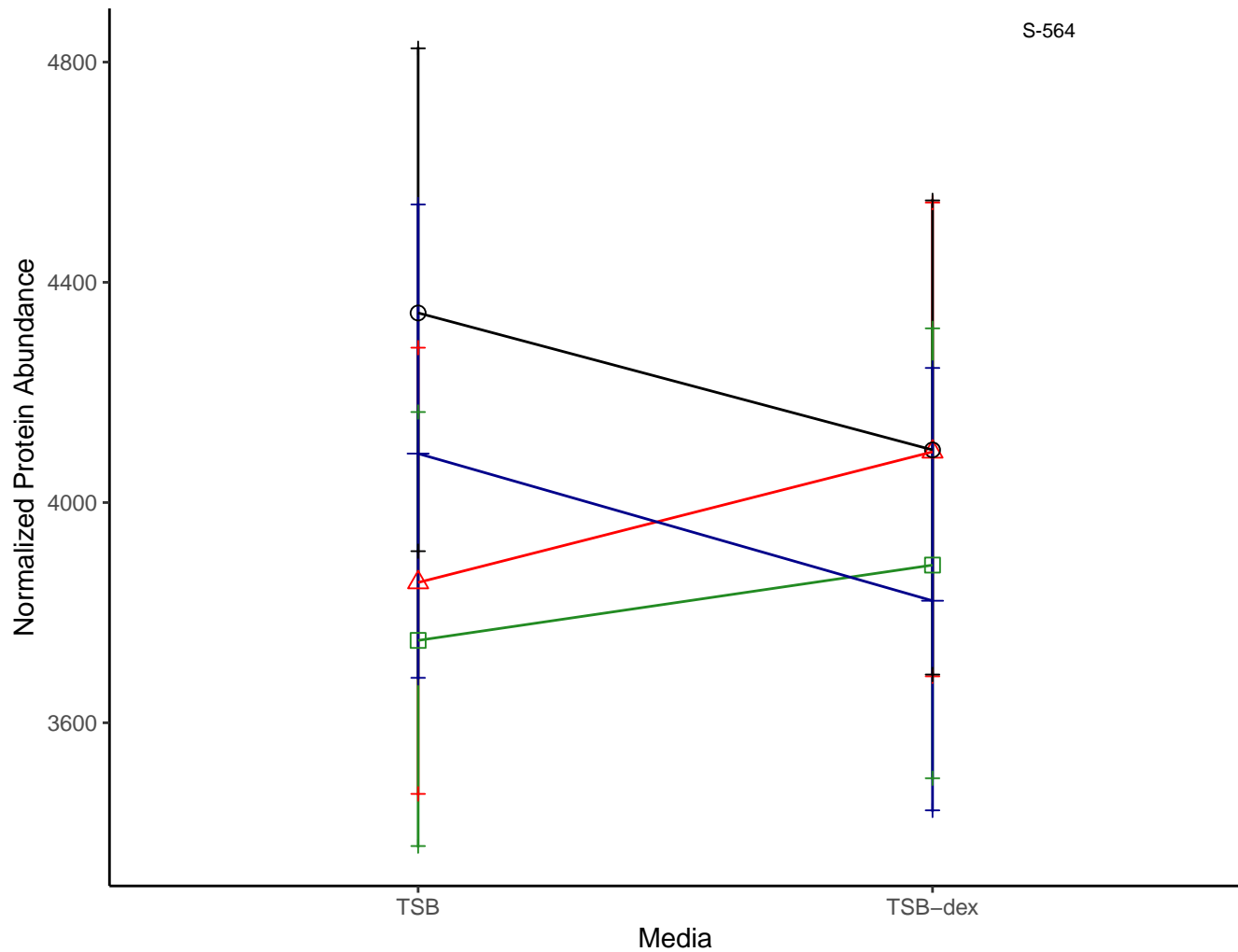
S-563



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CYSE\_STAAM

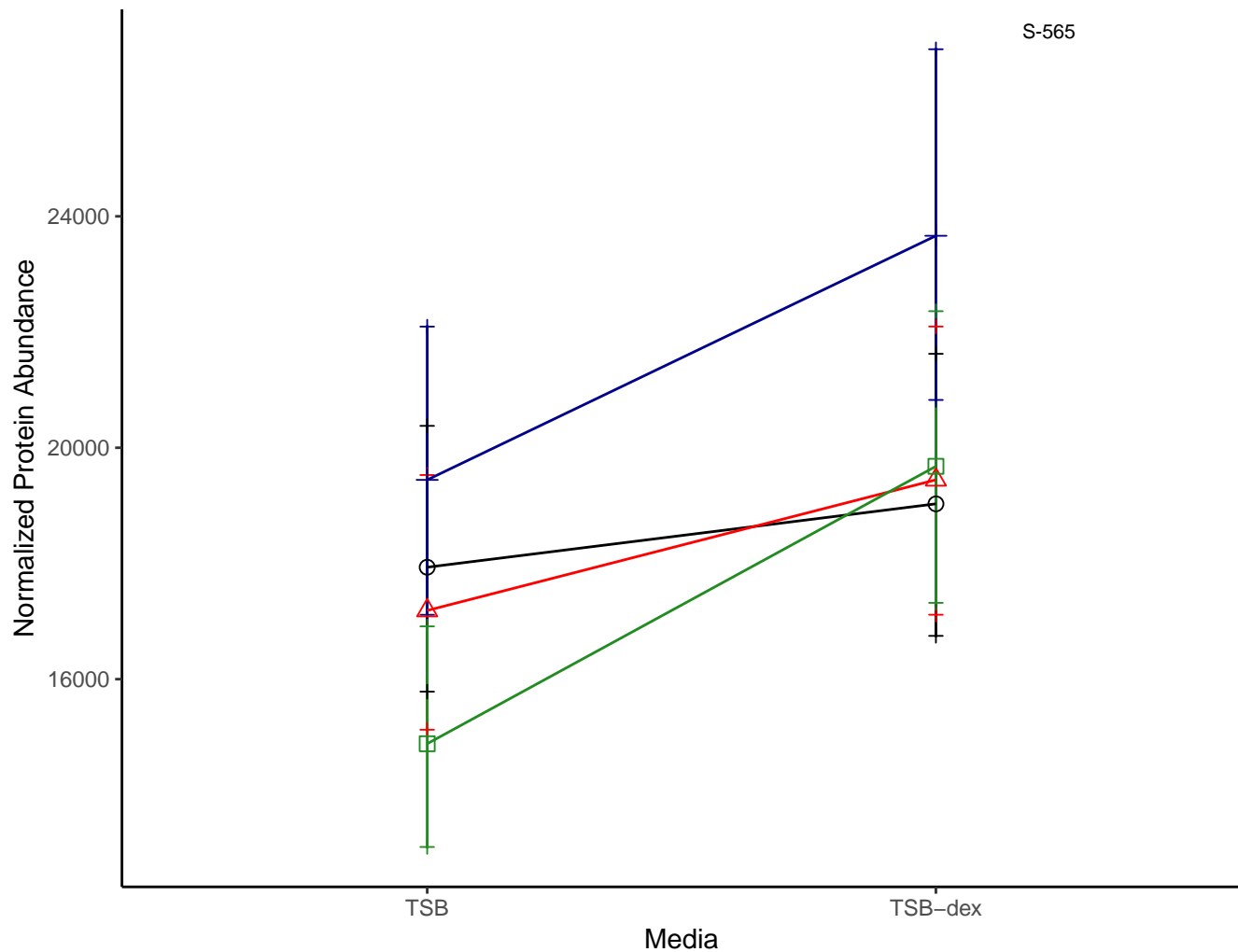
S-564



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CYSK\_STAAM

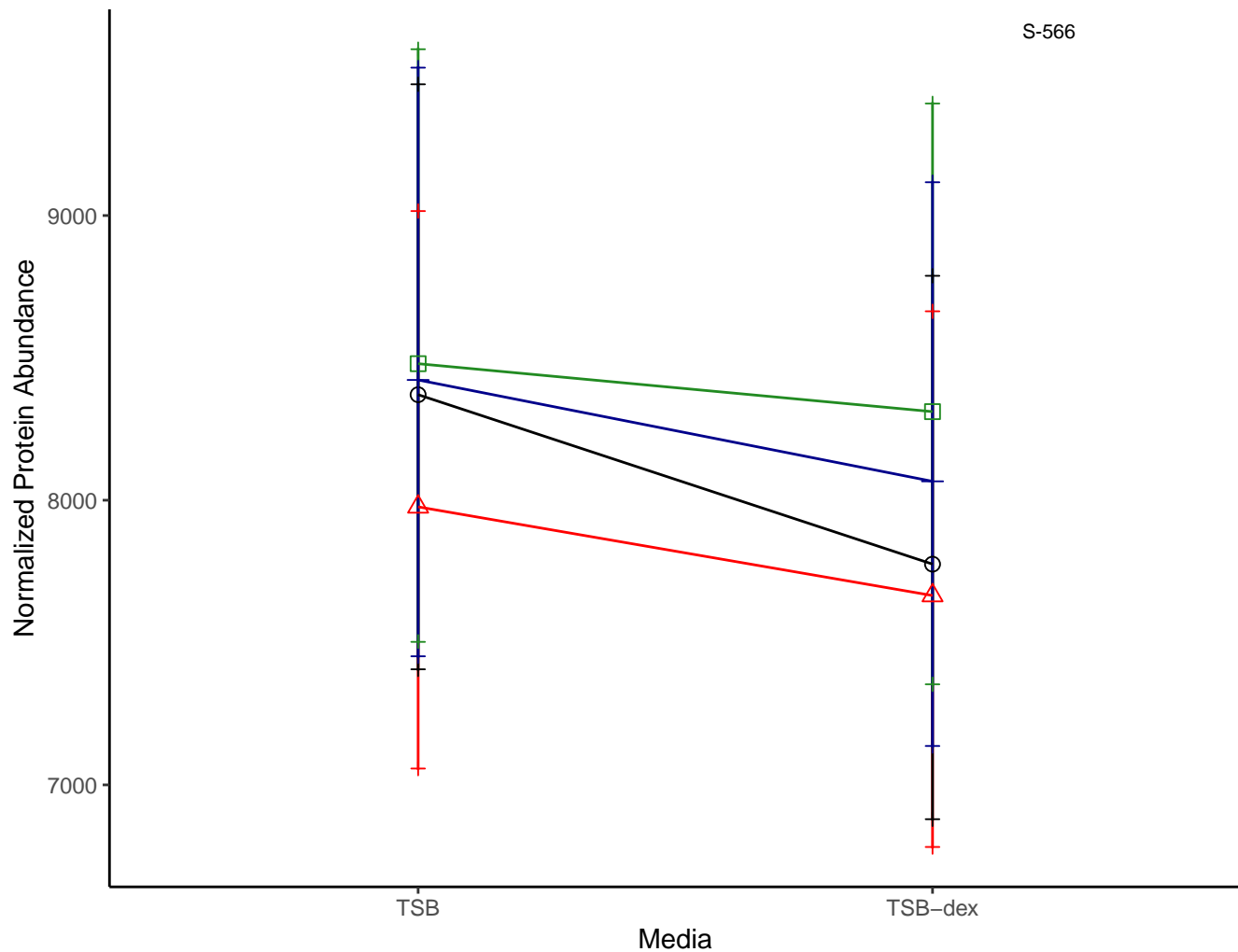
S-565



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DAAA\_STAAM

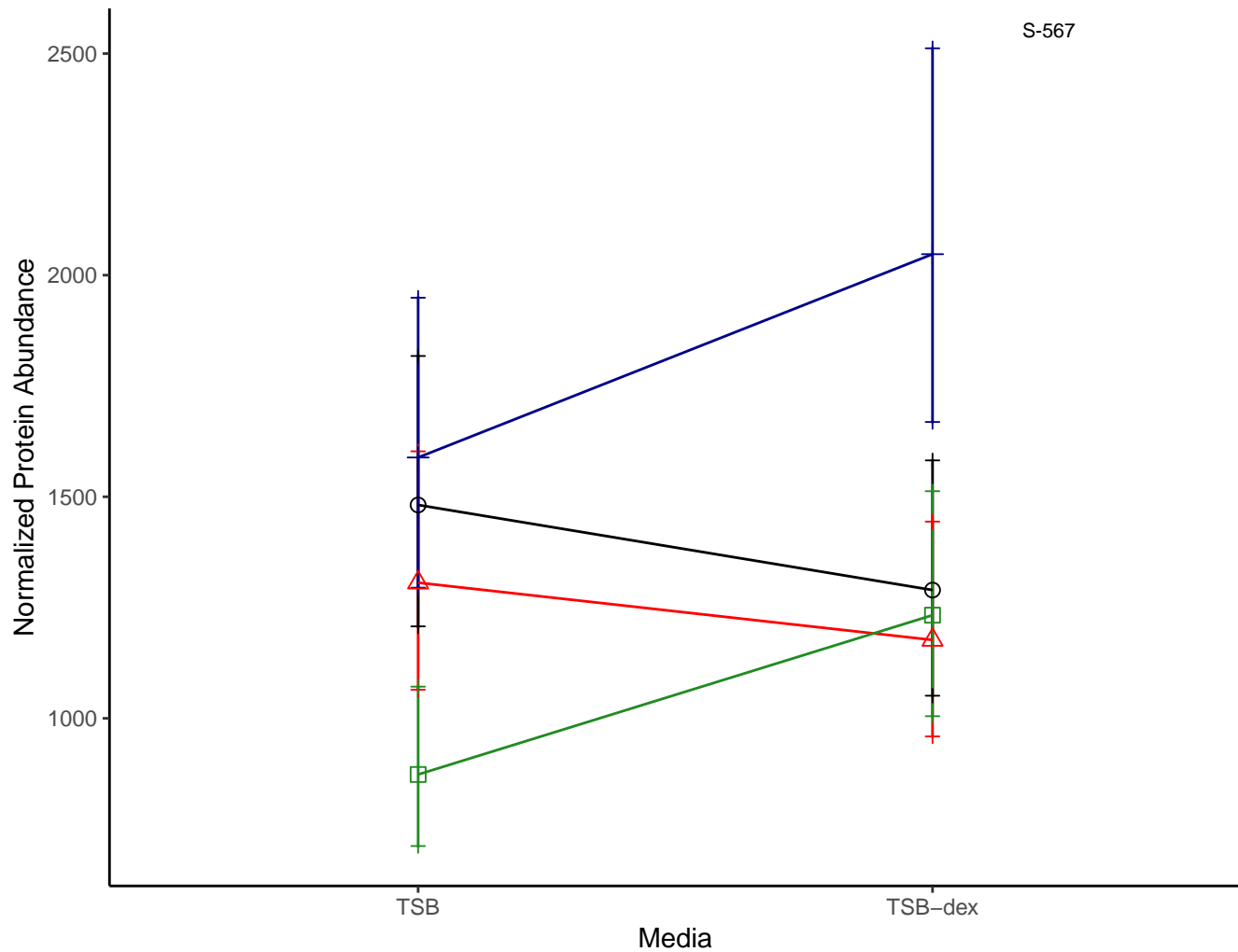
S-566



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DAPB\_STAAM

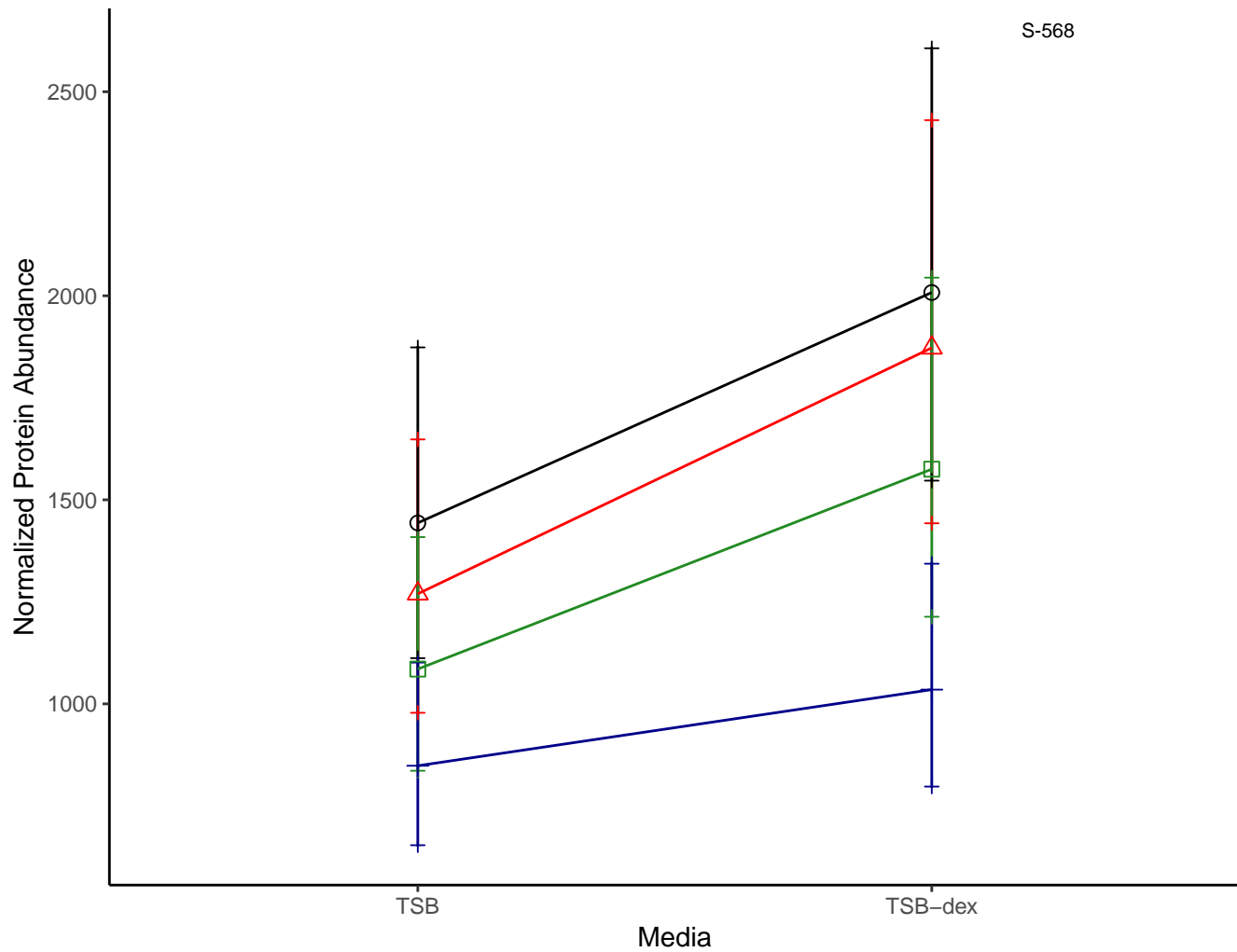
S-567



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DAPH\_STAAM

S-568

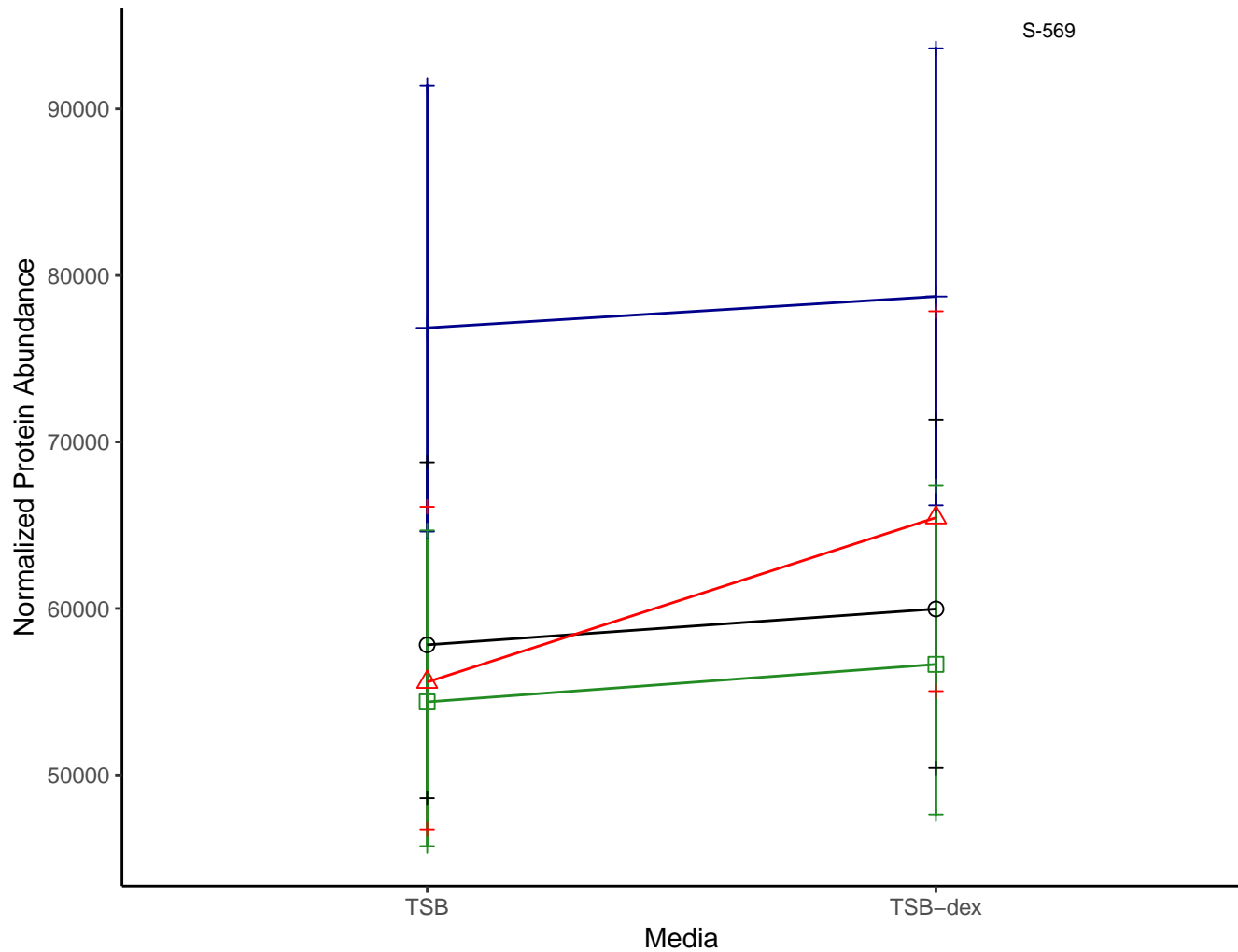


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# DBH\_STAAM

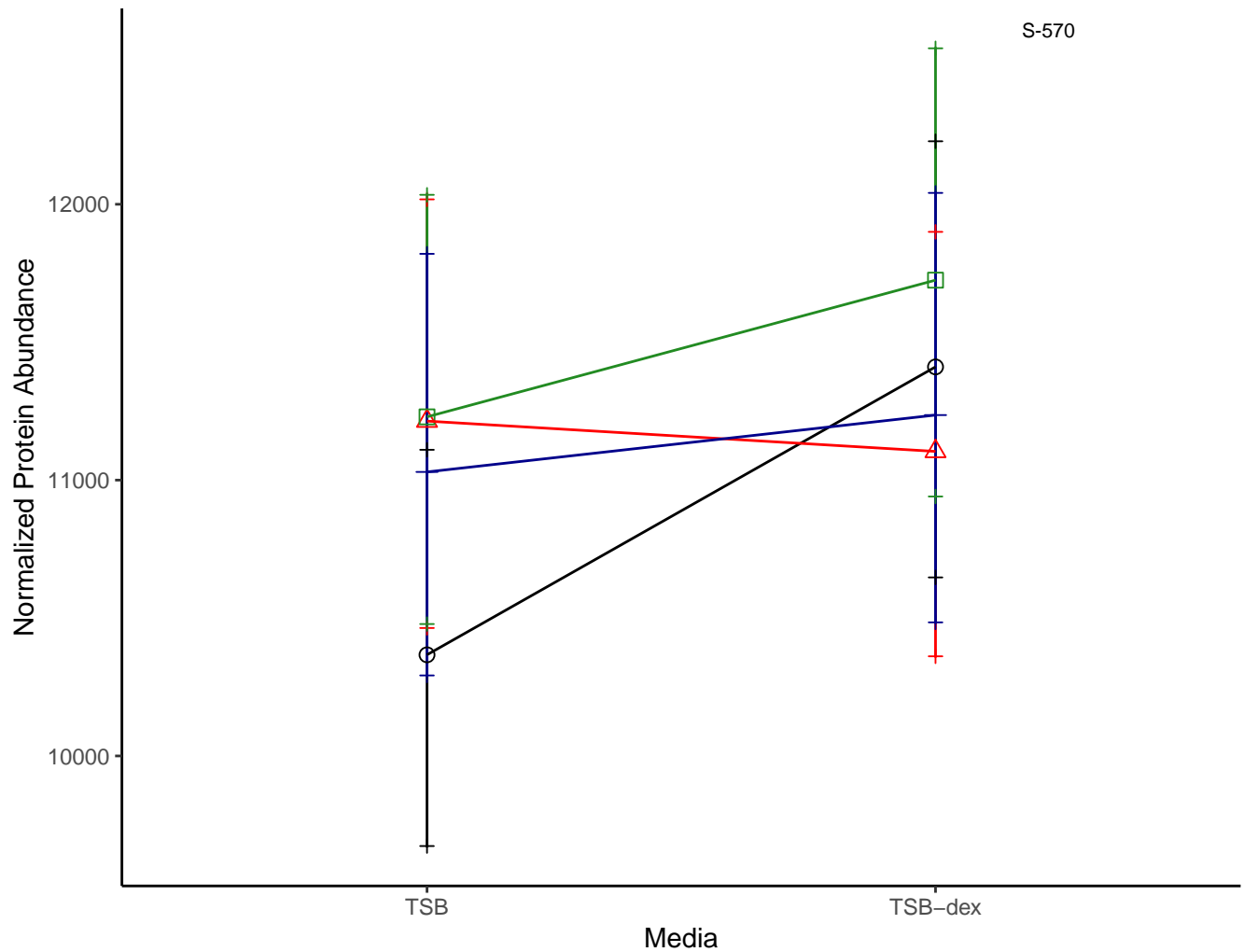
S-569



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DCUP\_STAAM

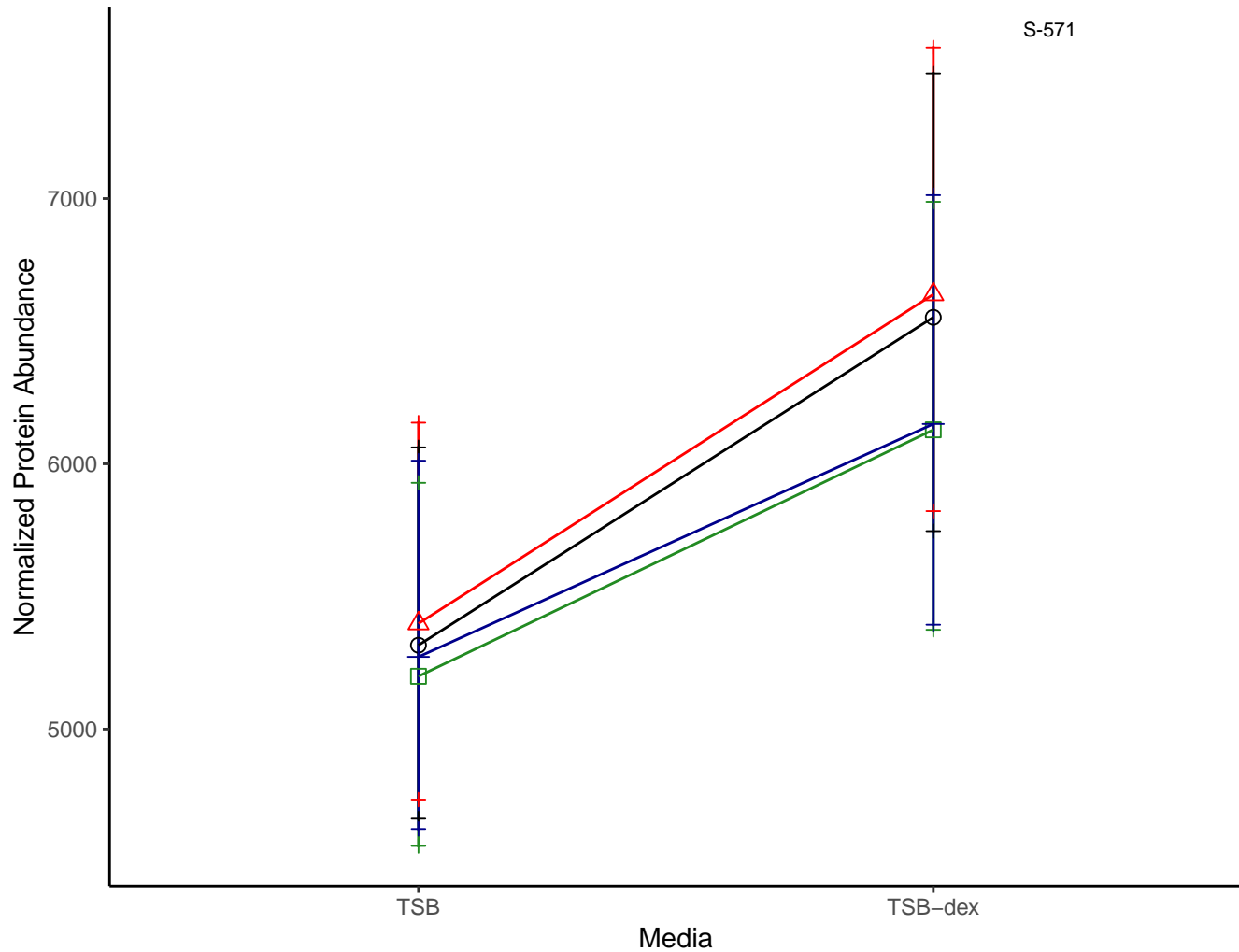
S-570



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## DDL\_STAAM

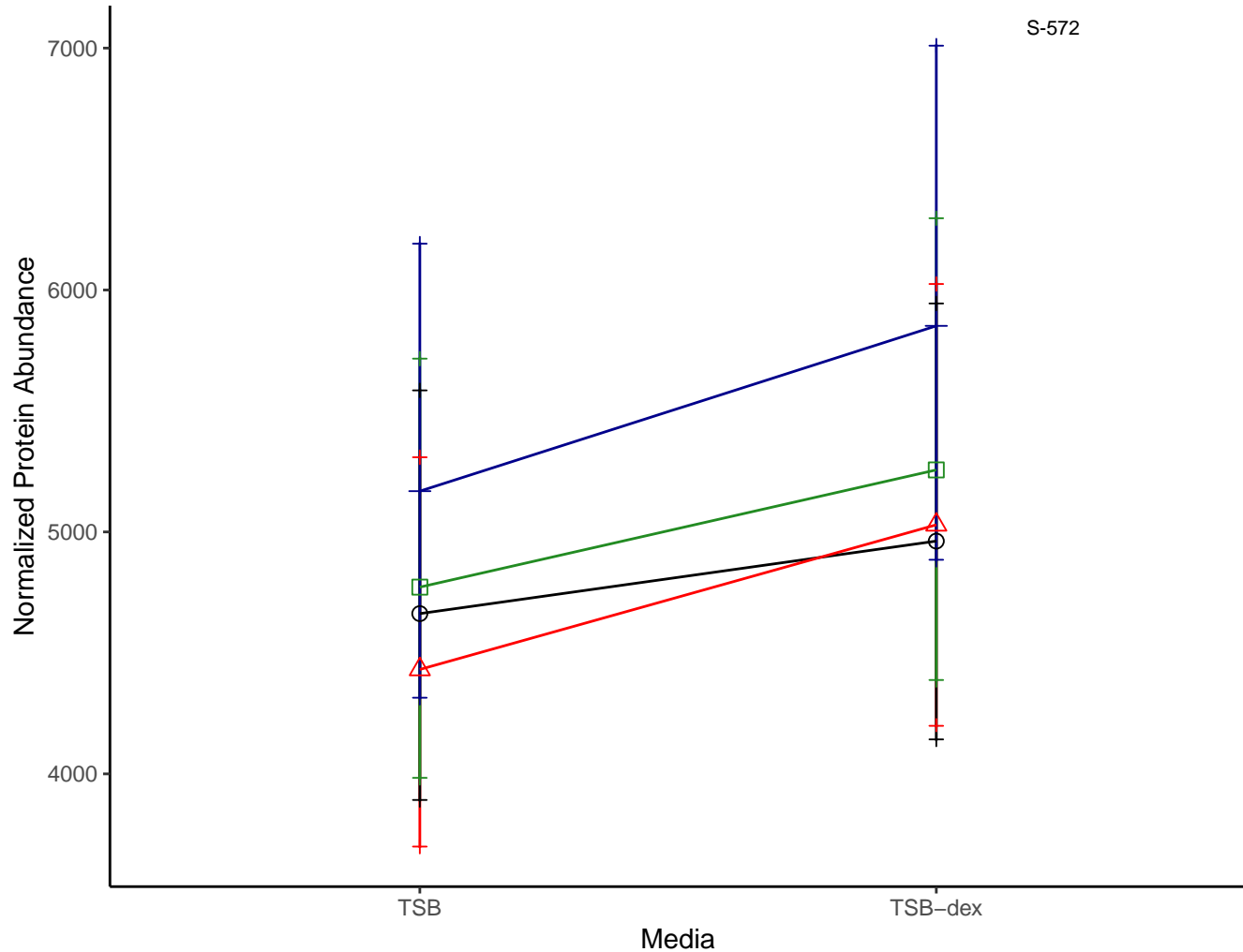
S-571



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## DEF\_STAAM

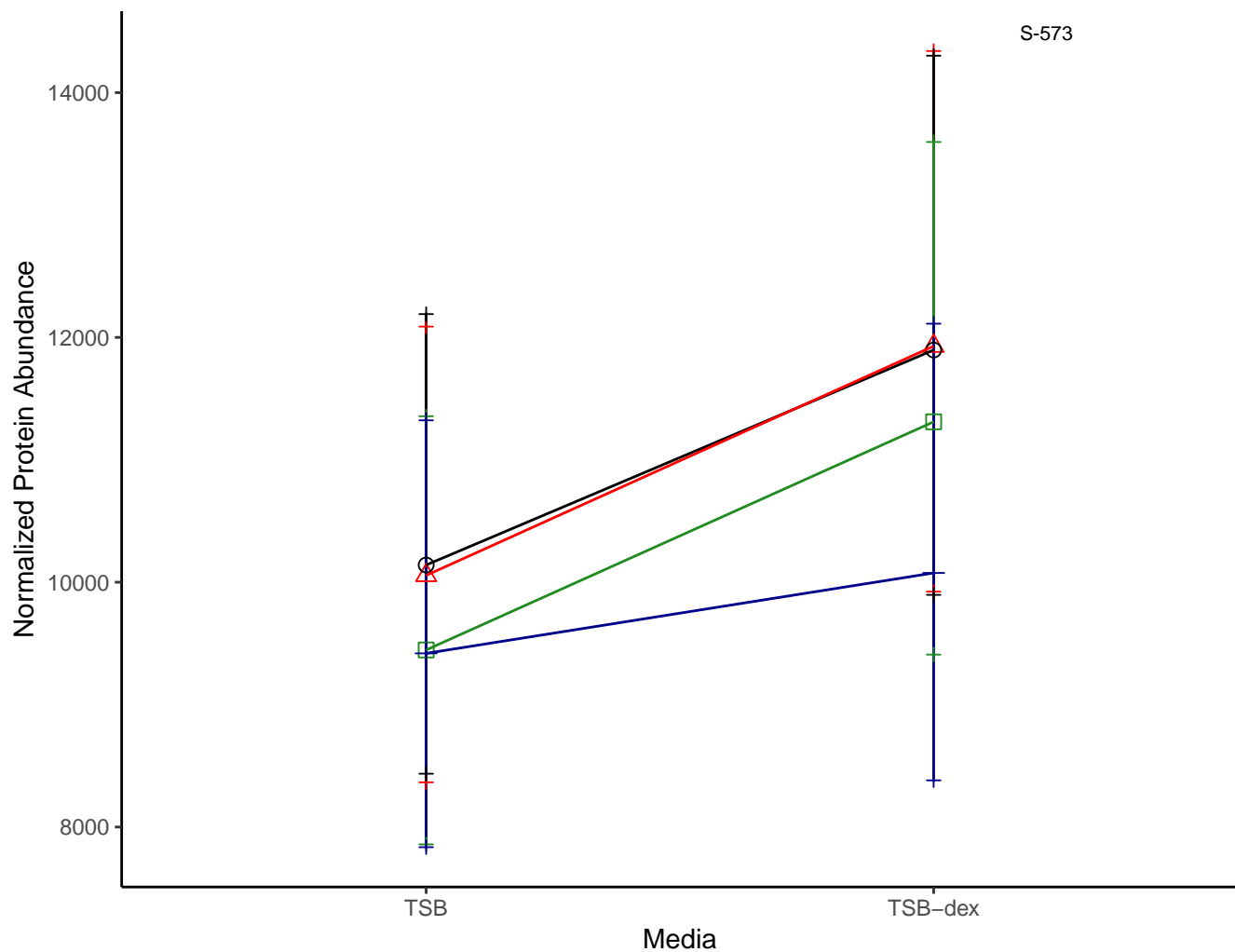
S-572



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DEOB\_STAAM

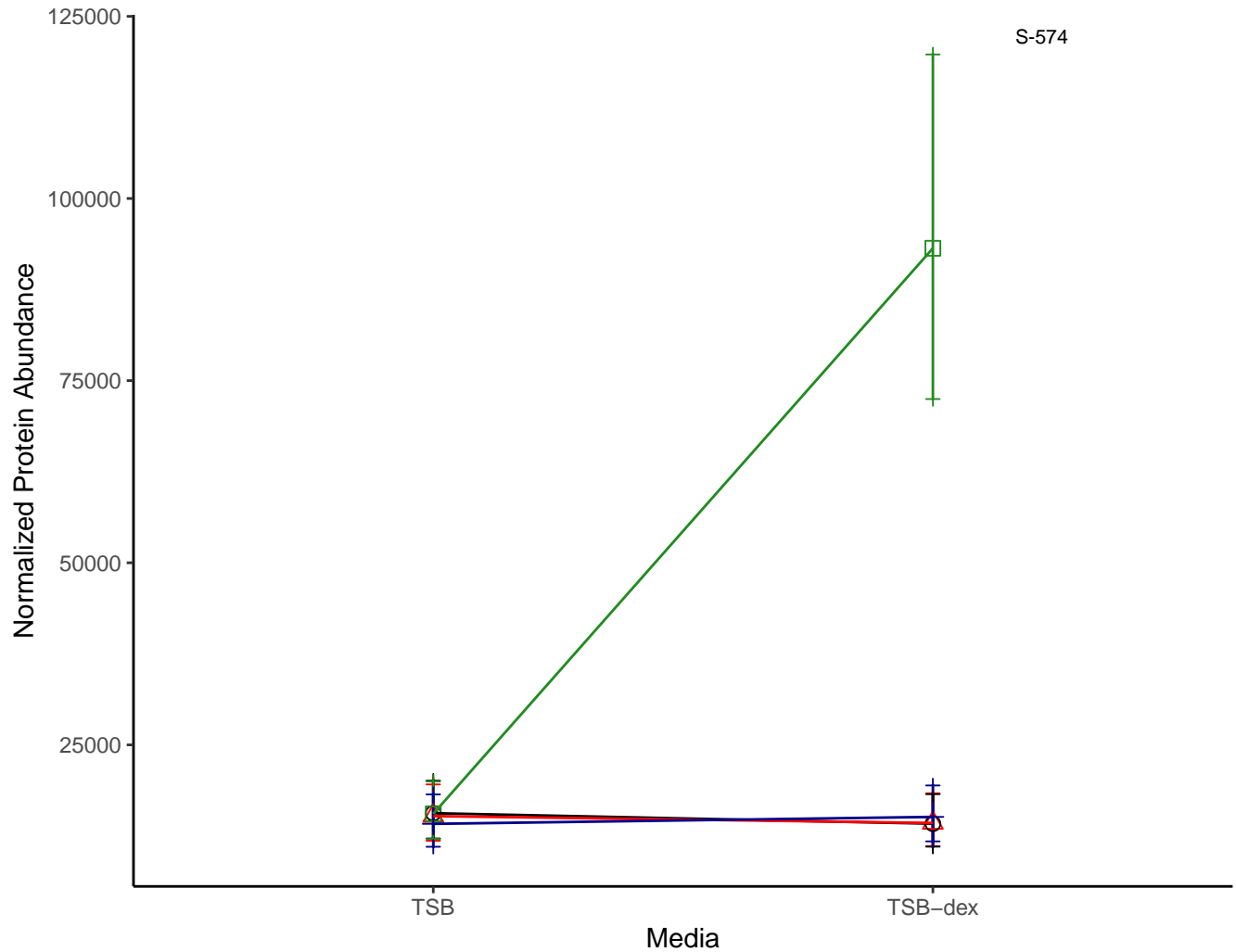
S-573



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DEOC1\_STAAM

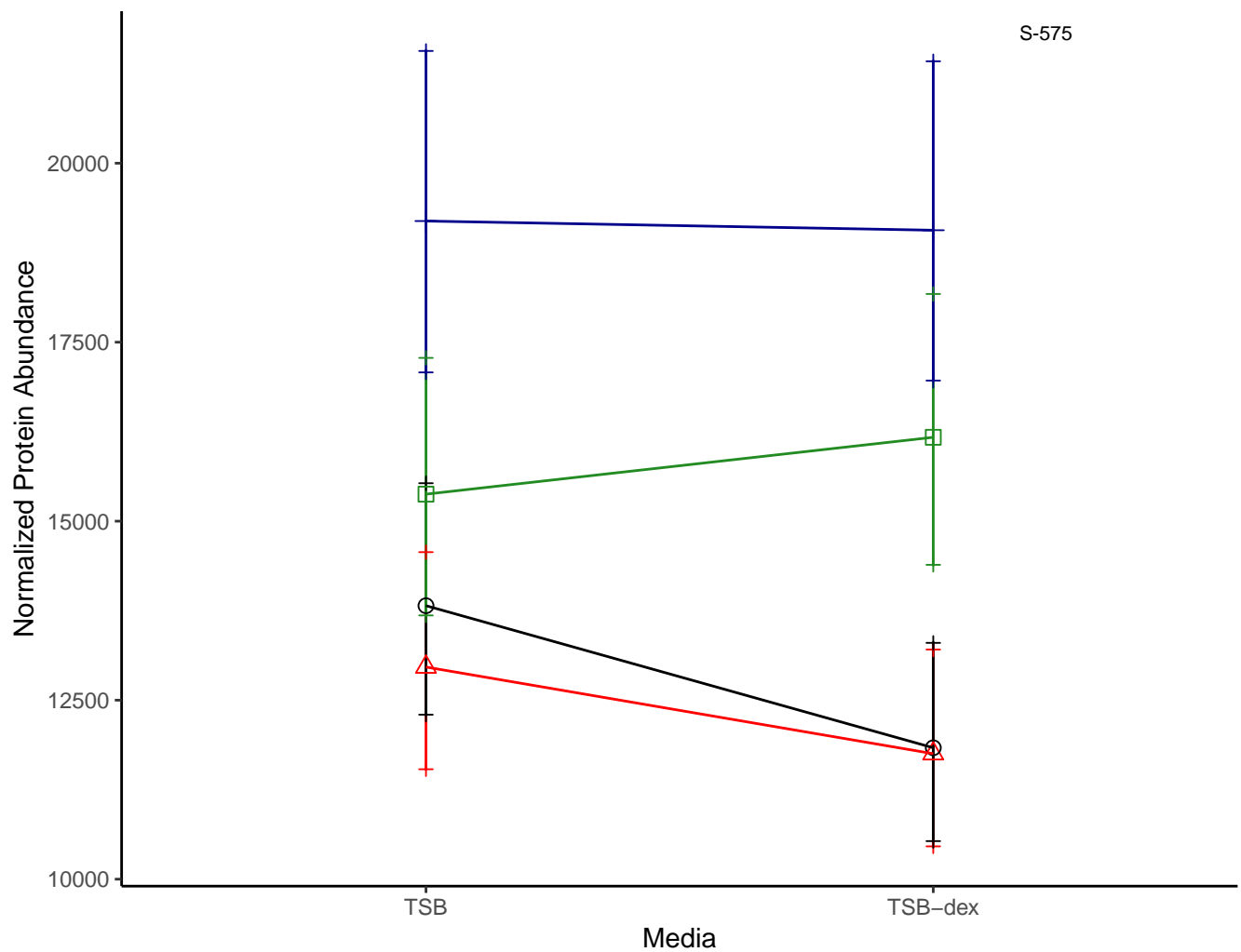
S-574



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DEOC2\_STAAM

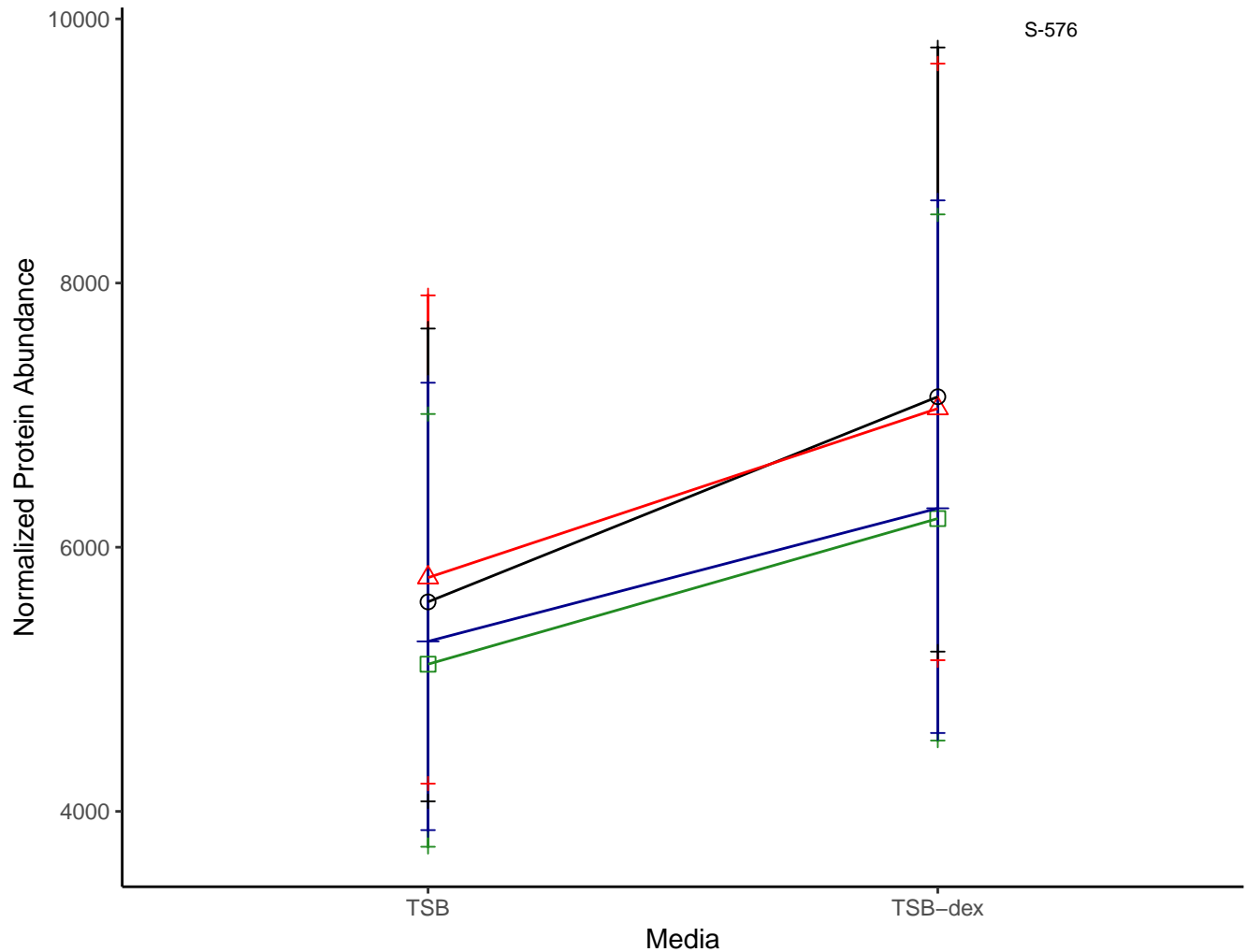
S-575



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DER\_STAAM

S-576

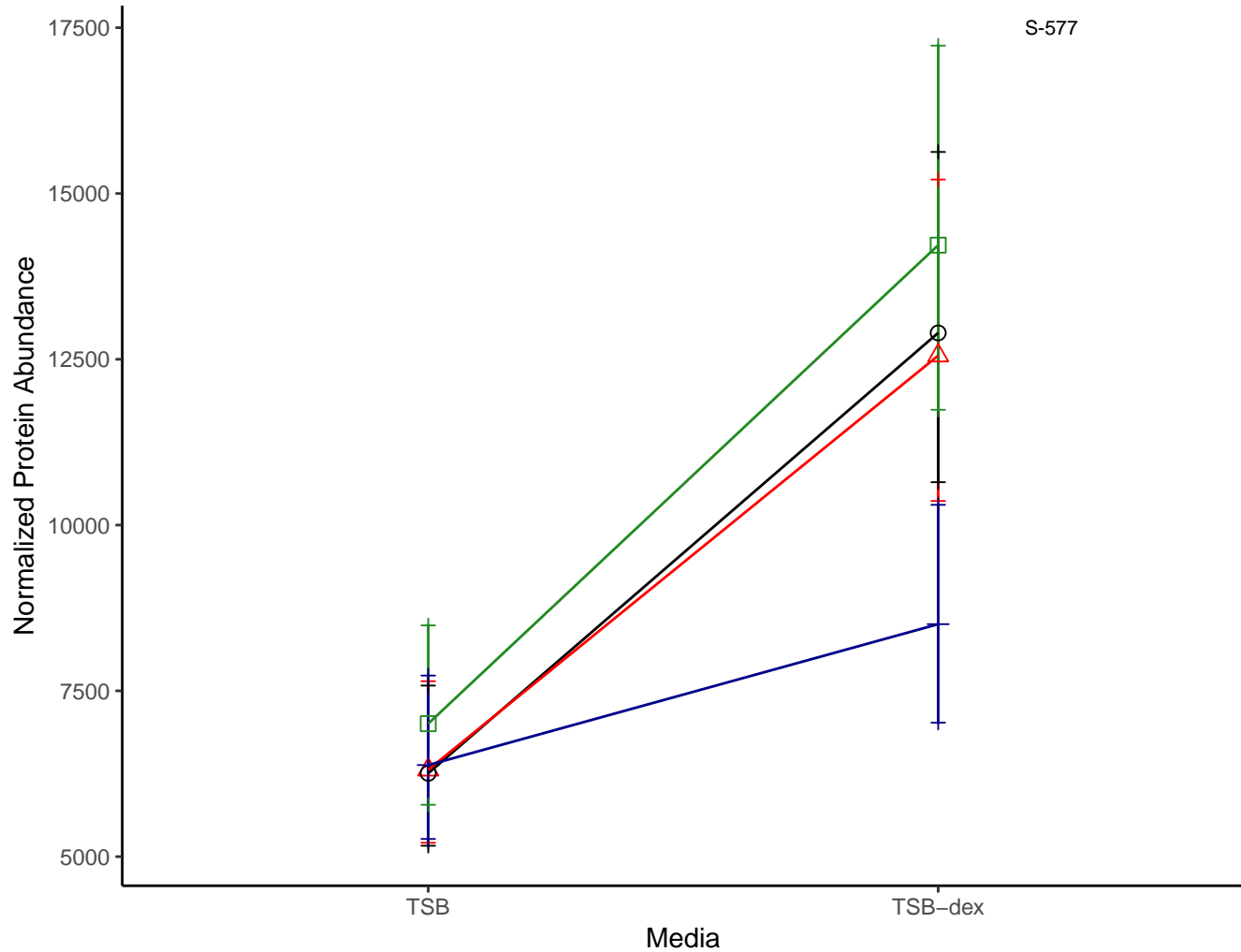


- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# DHA1\_STAAM

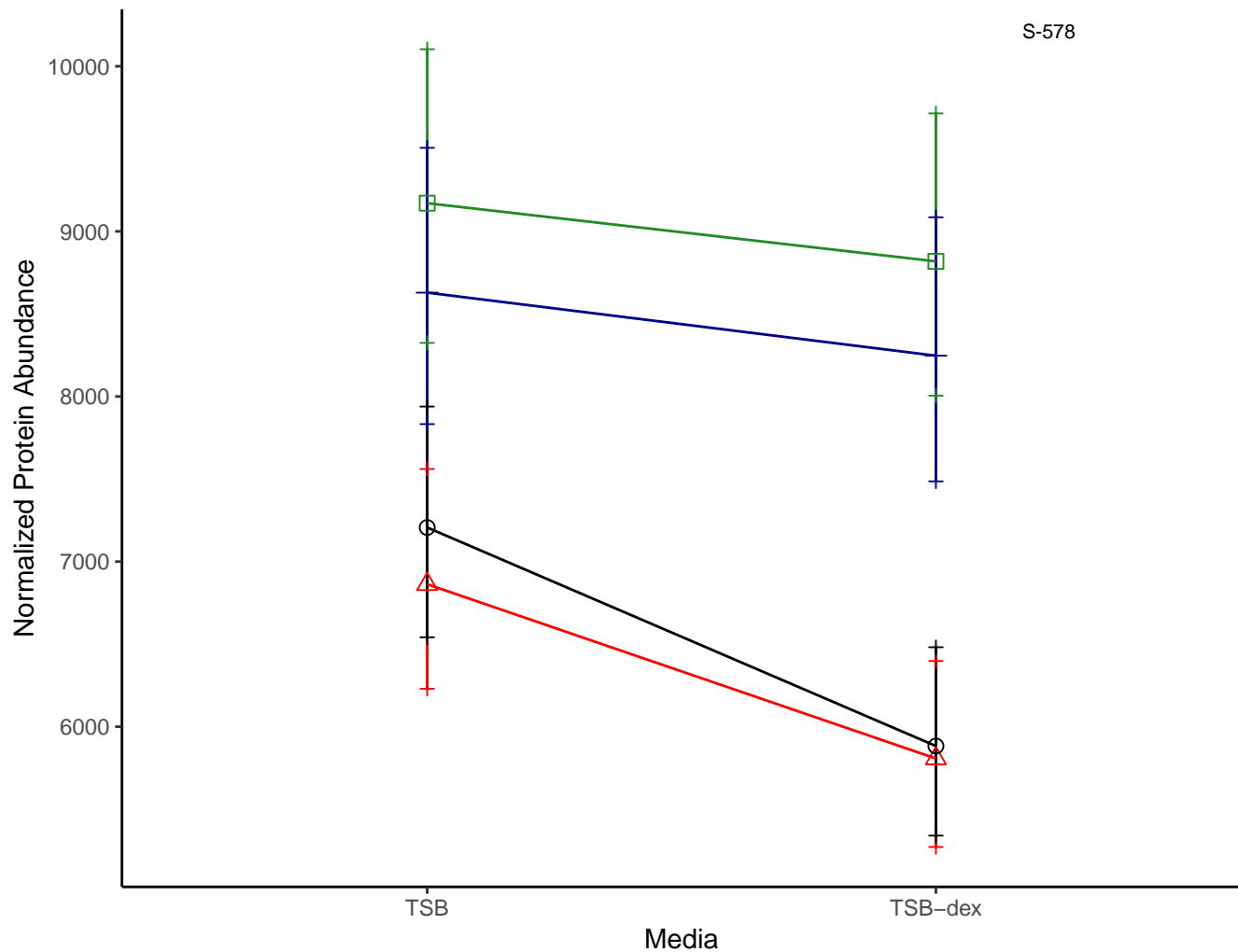
S-577



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DHA2\_STAAM

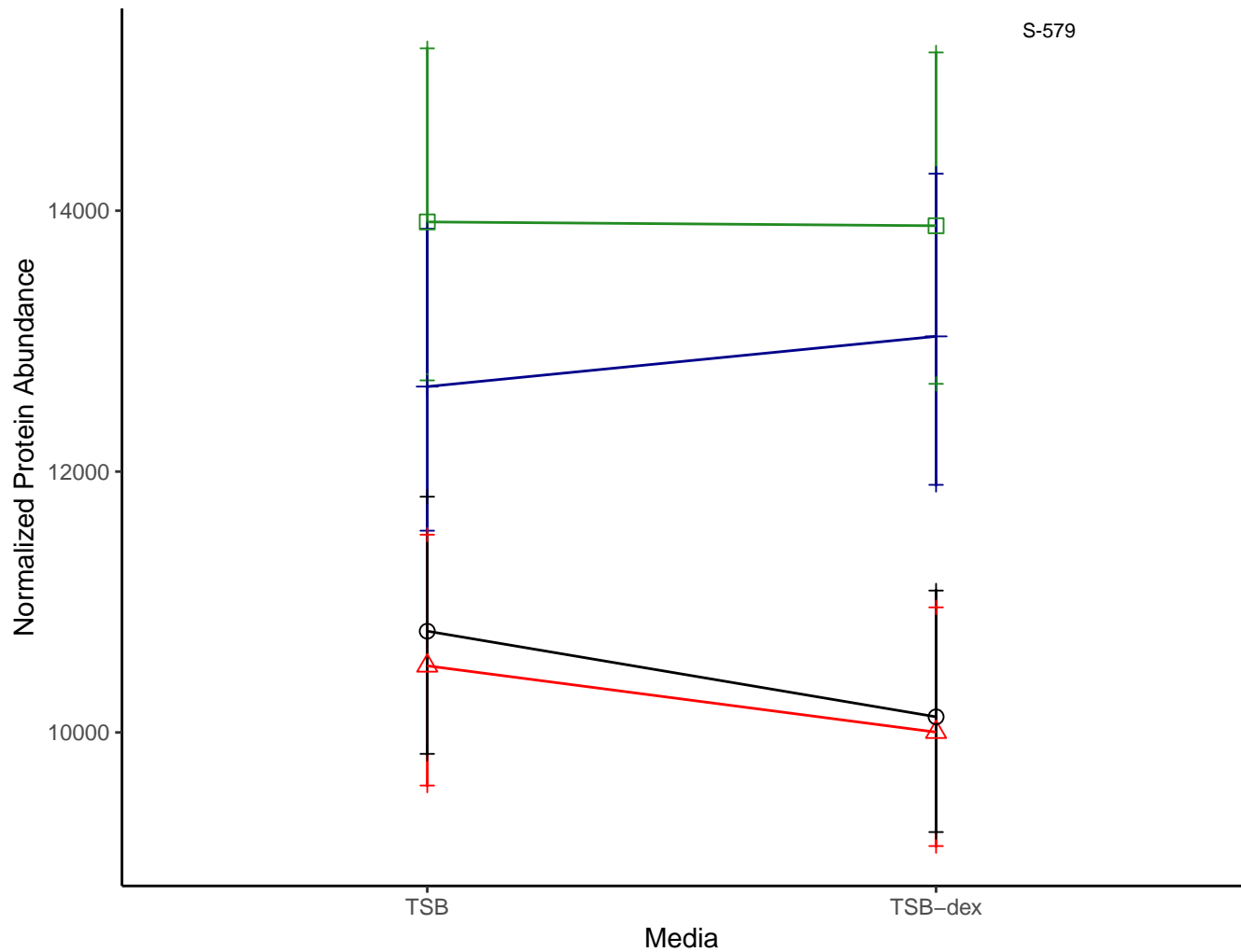
S-578



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DHE2\_STAAM

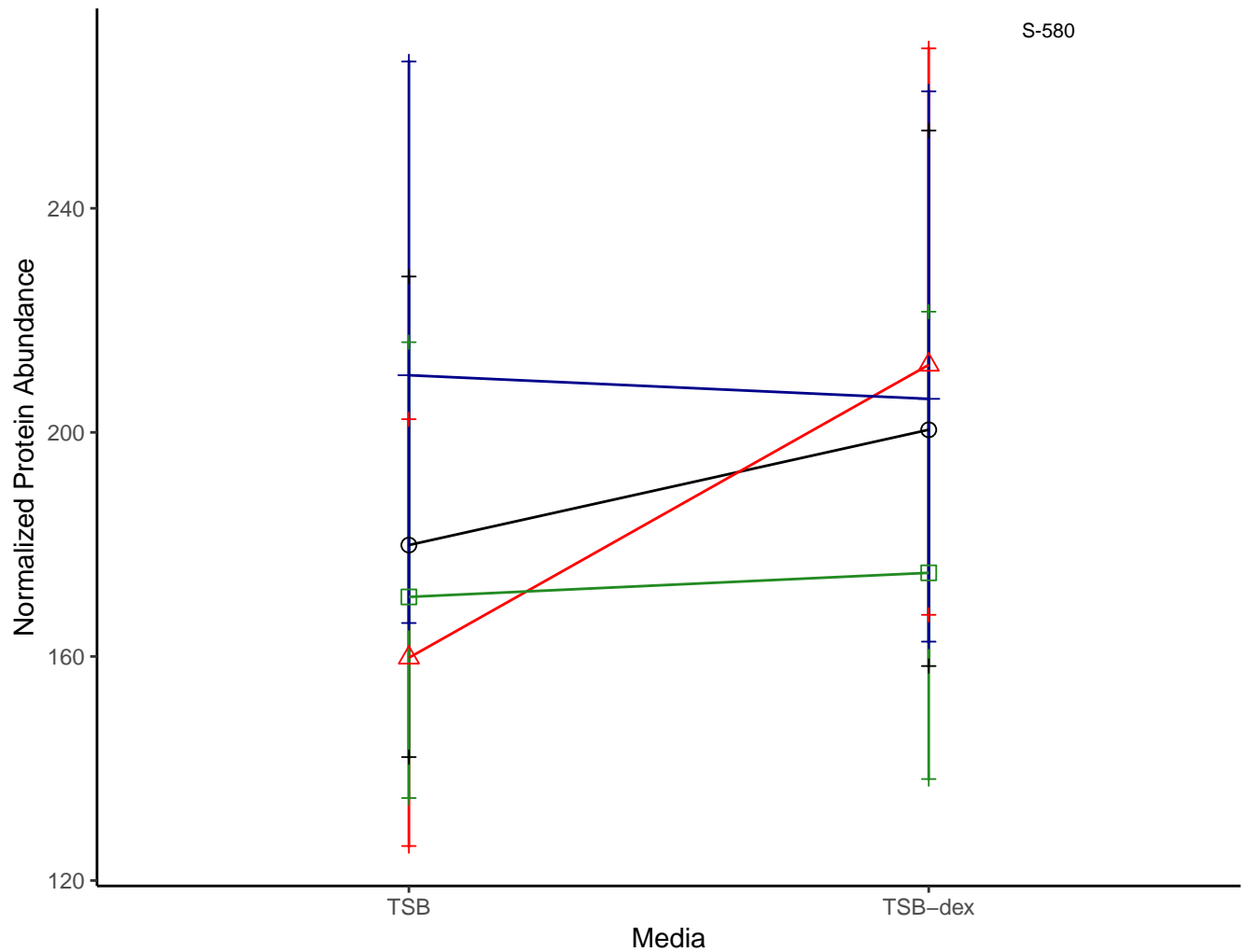
S-579



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DHPS\_STAAM

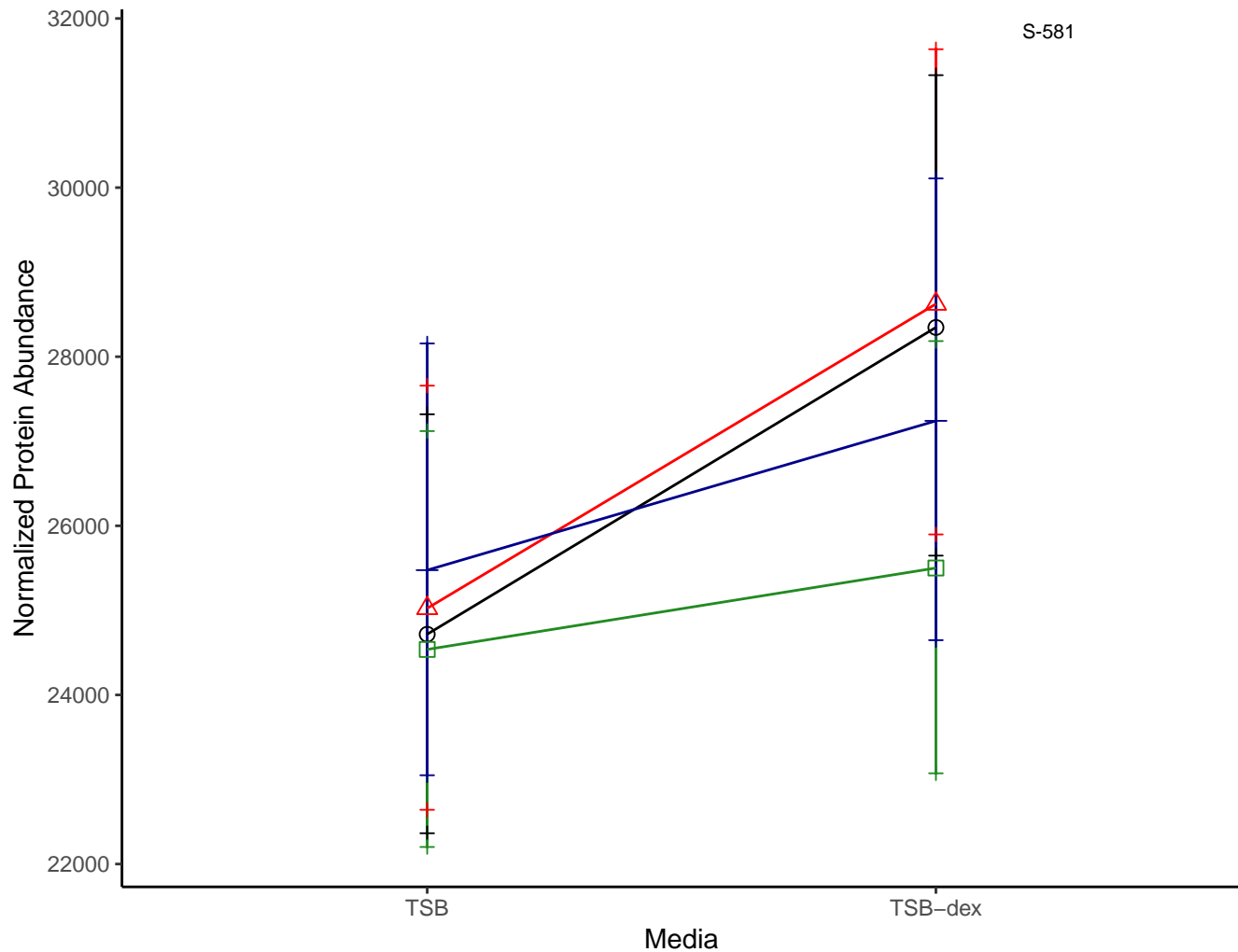
S-580



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# DLDH\_STAAM

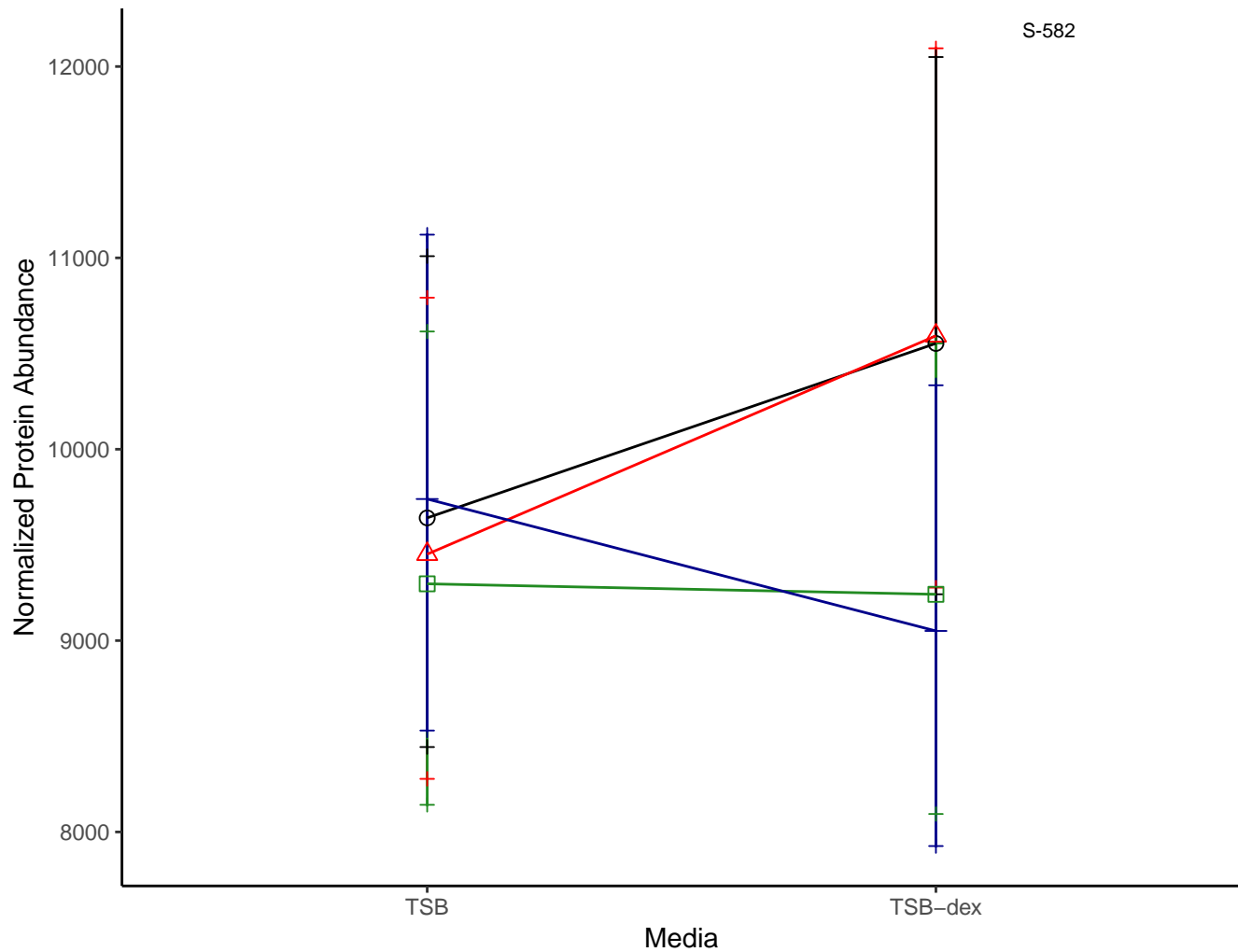
S-581



- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# DLTA\_STAAM

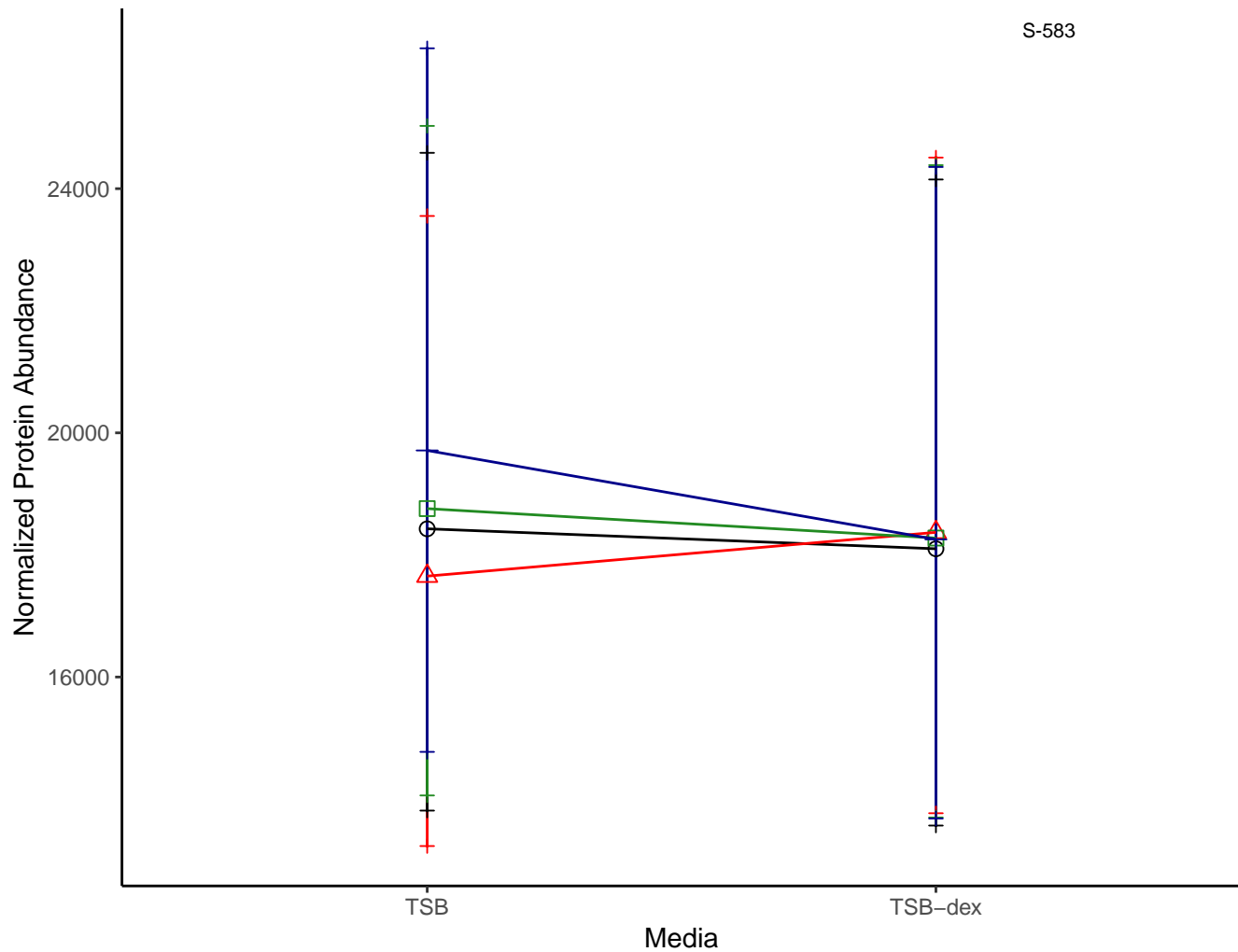
S-582



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DLTC\_STAAM

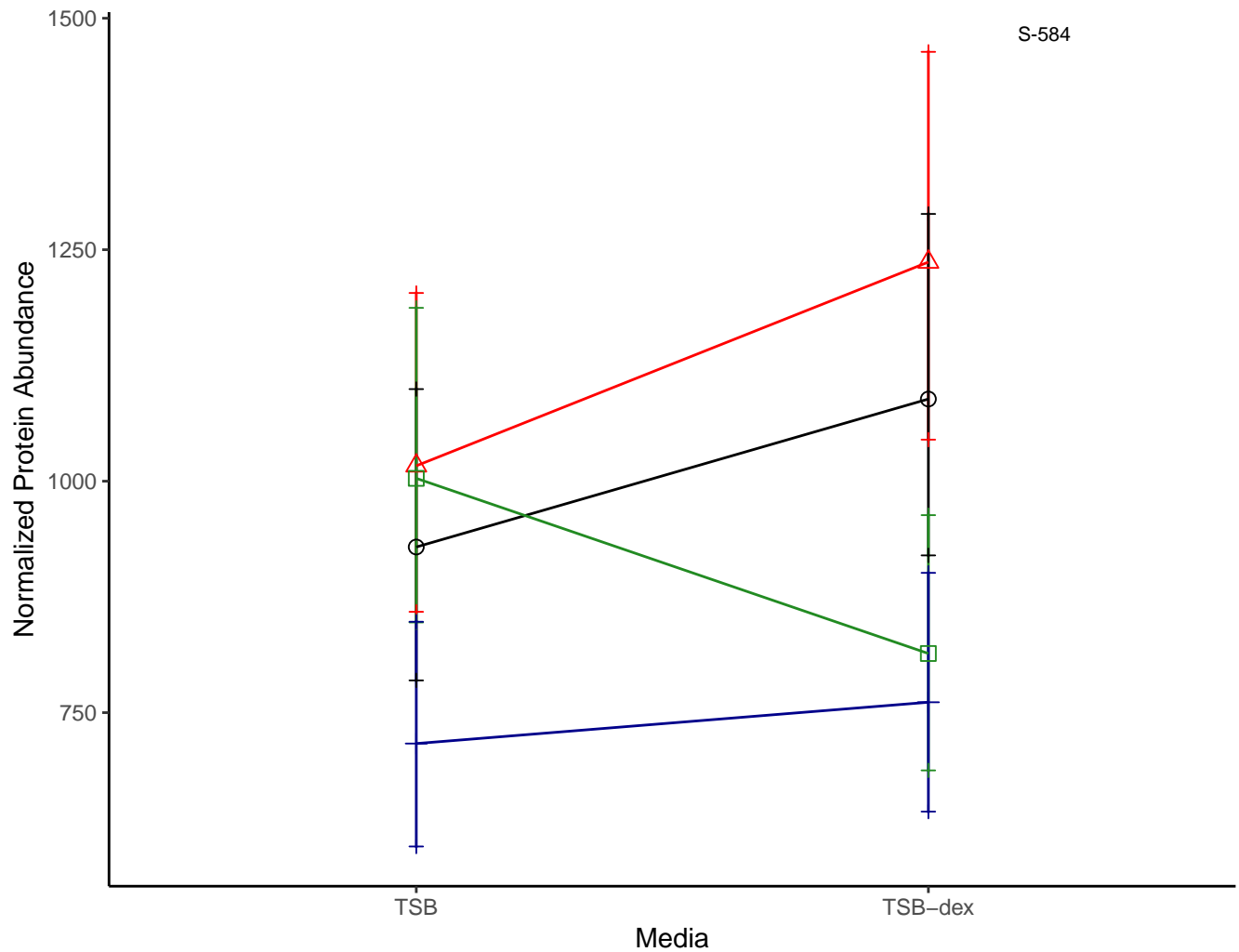
S-583



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNAA\_STAAM

S-584

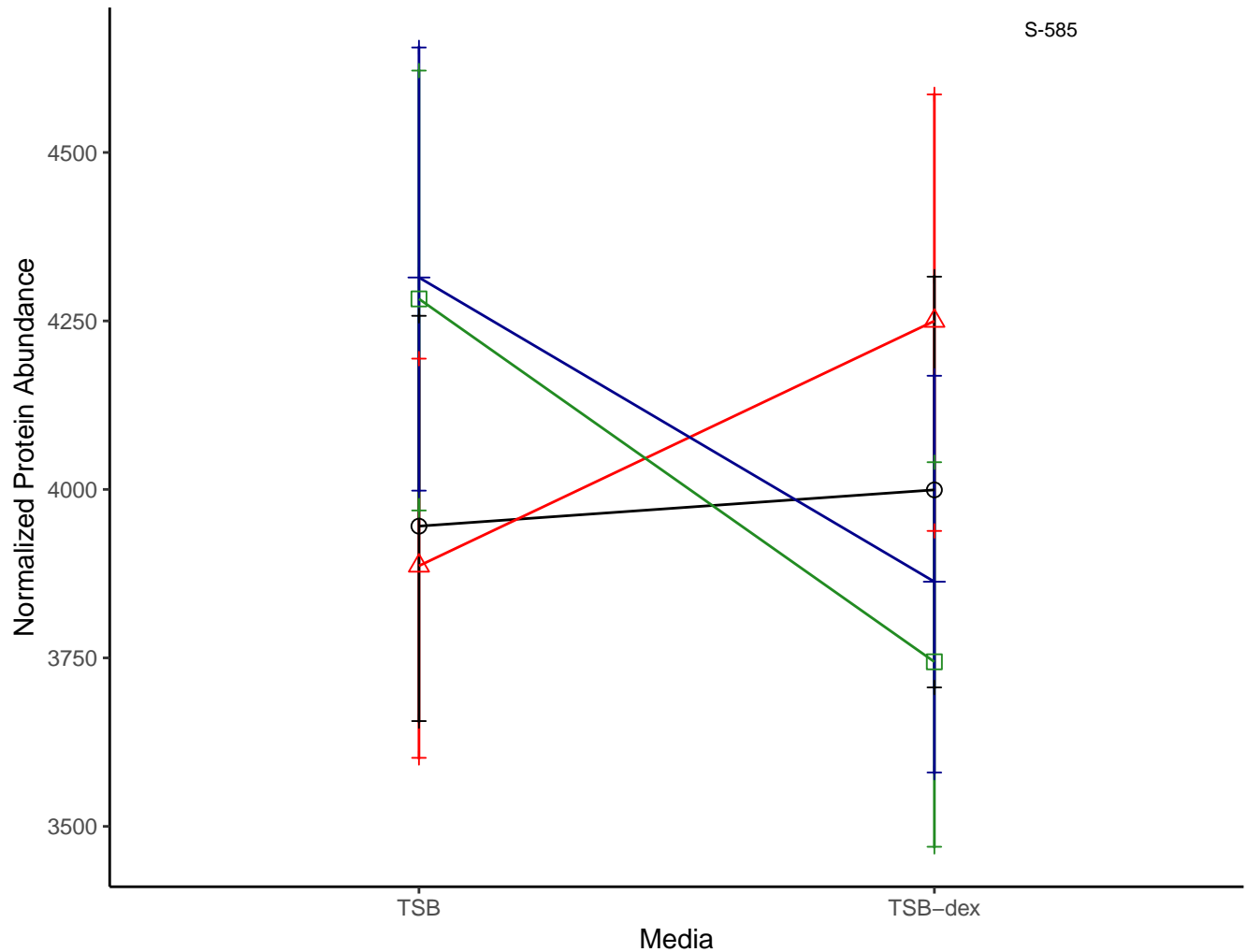


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*



# DNAG\_STAAM

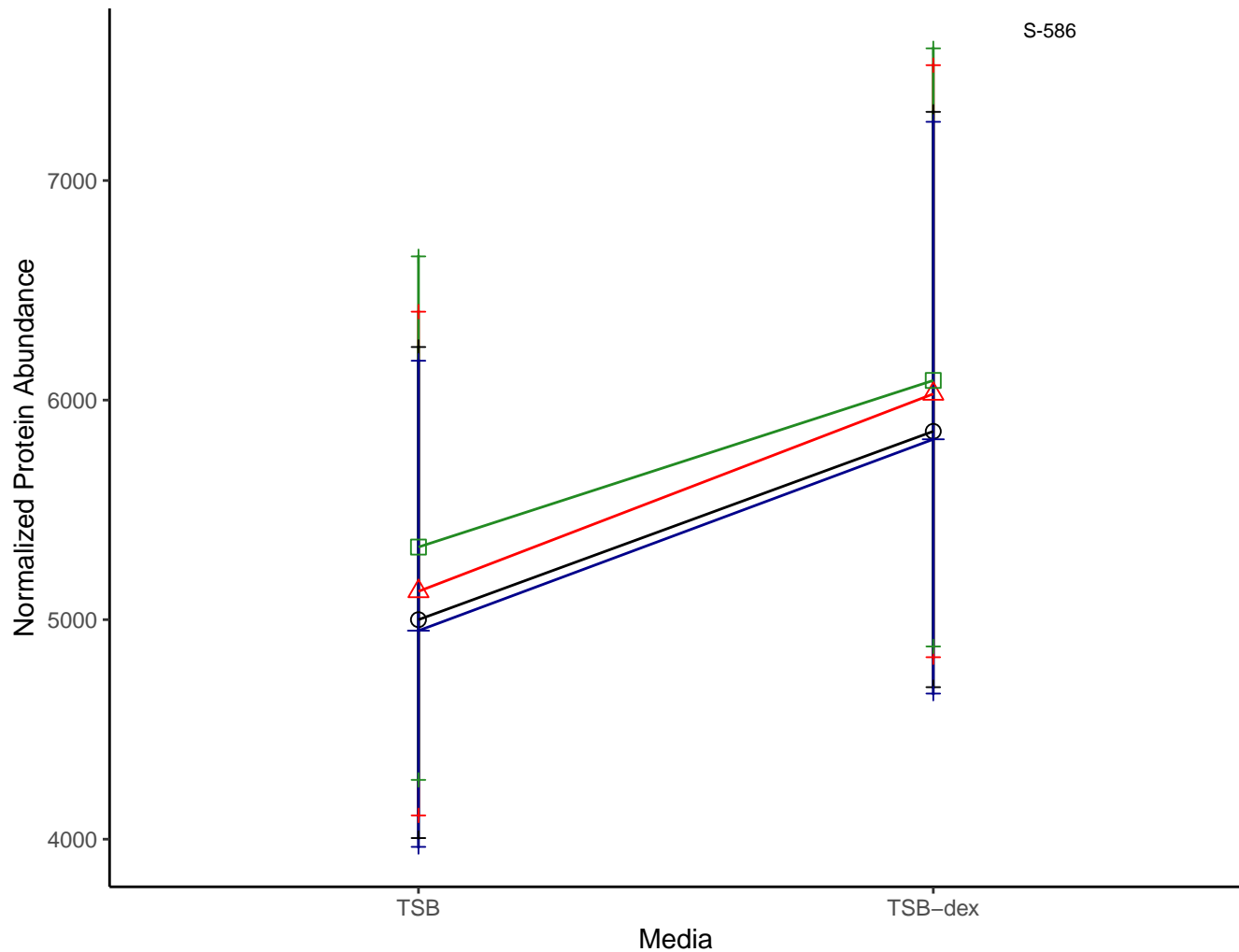
S-585



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNAJ\_STAAM

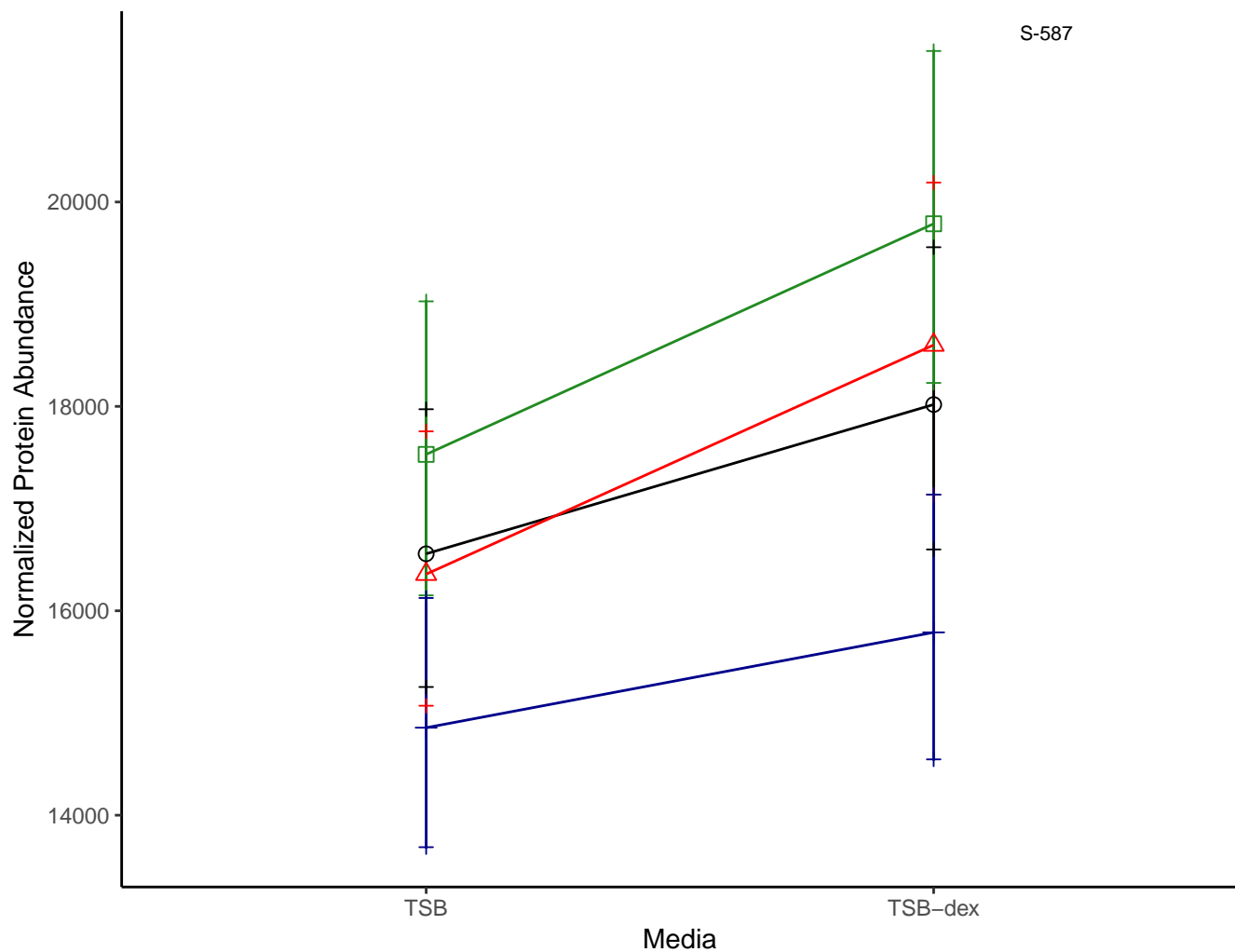
S-586



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DNAK\_STAAM

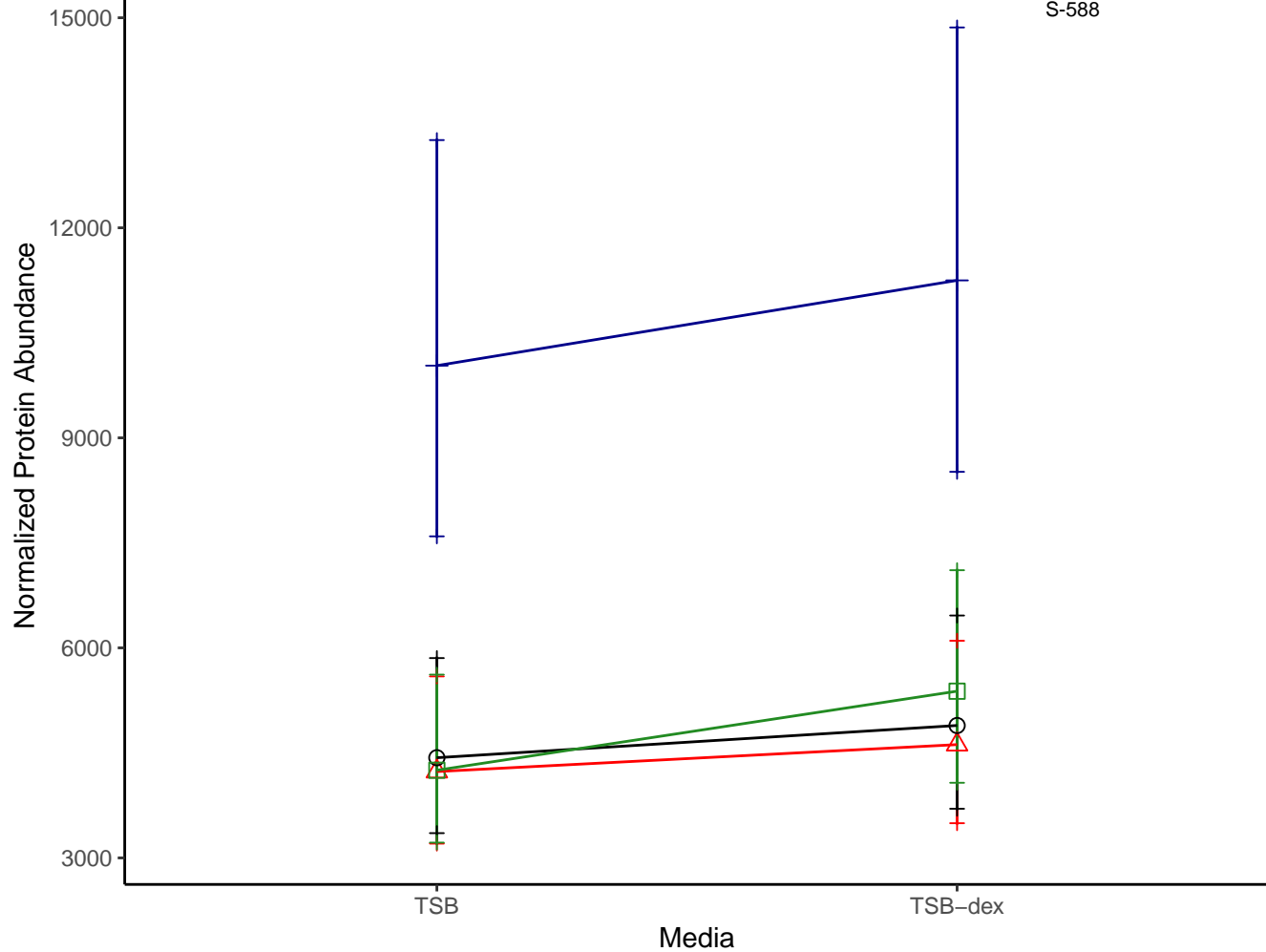
S-587



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNLJ\_STAAM

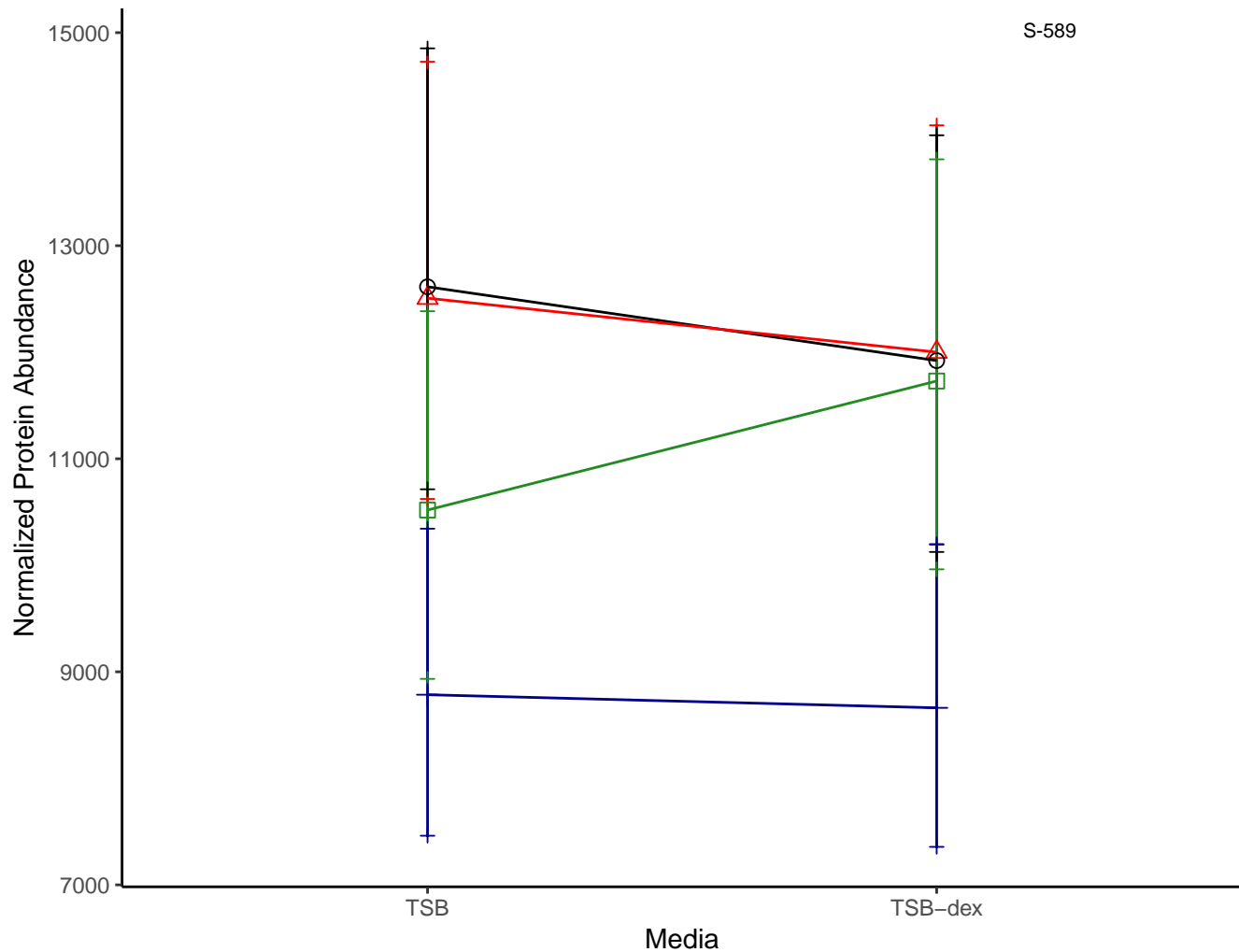
S-588



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# DPO3B\_STAAM

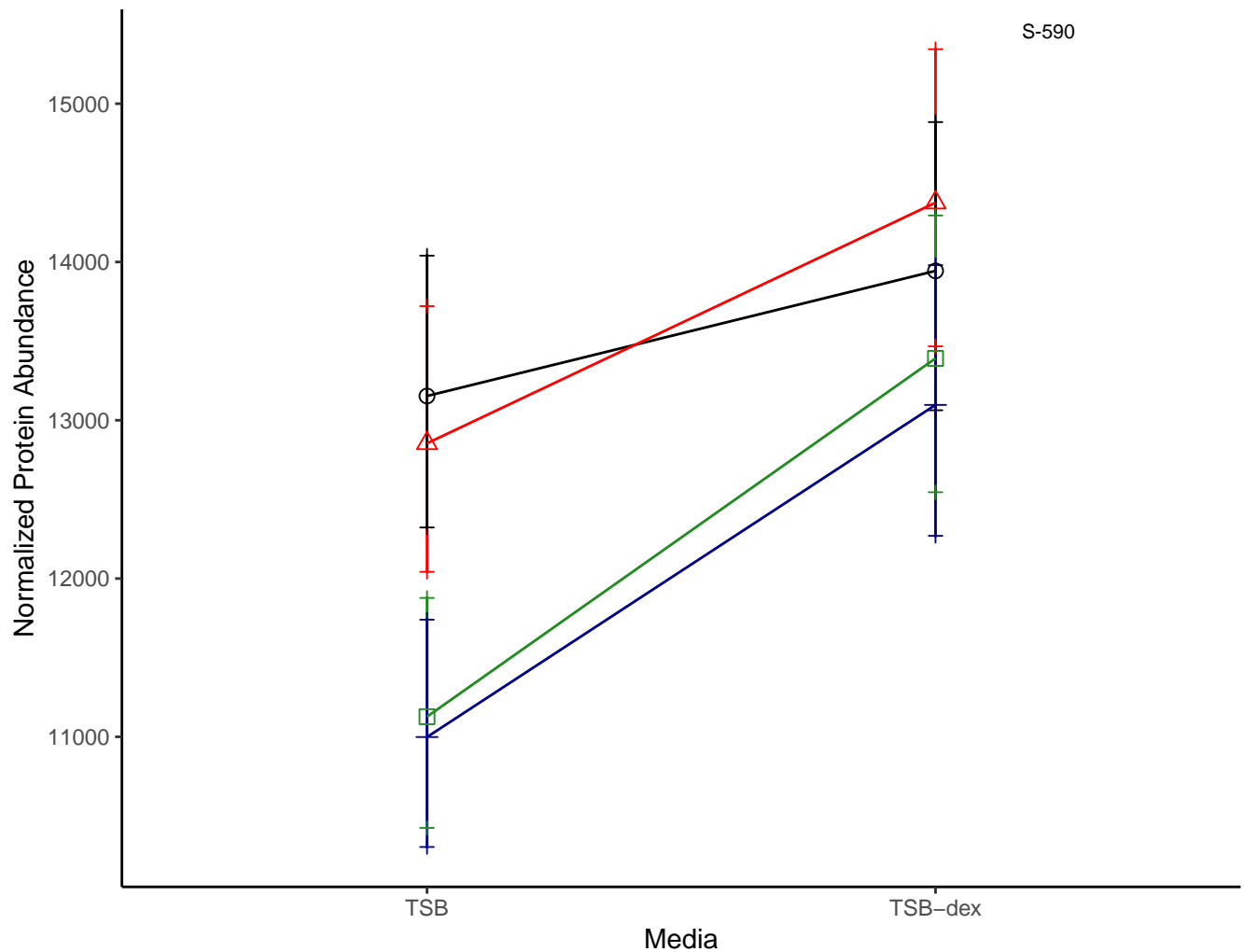
S-589



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DPO4\_STAAM

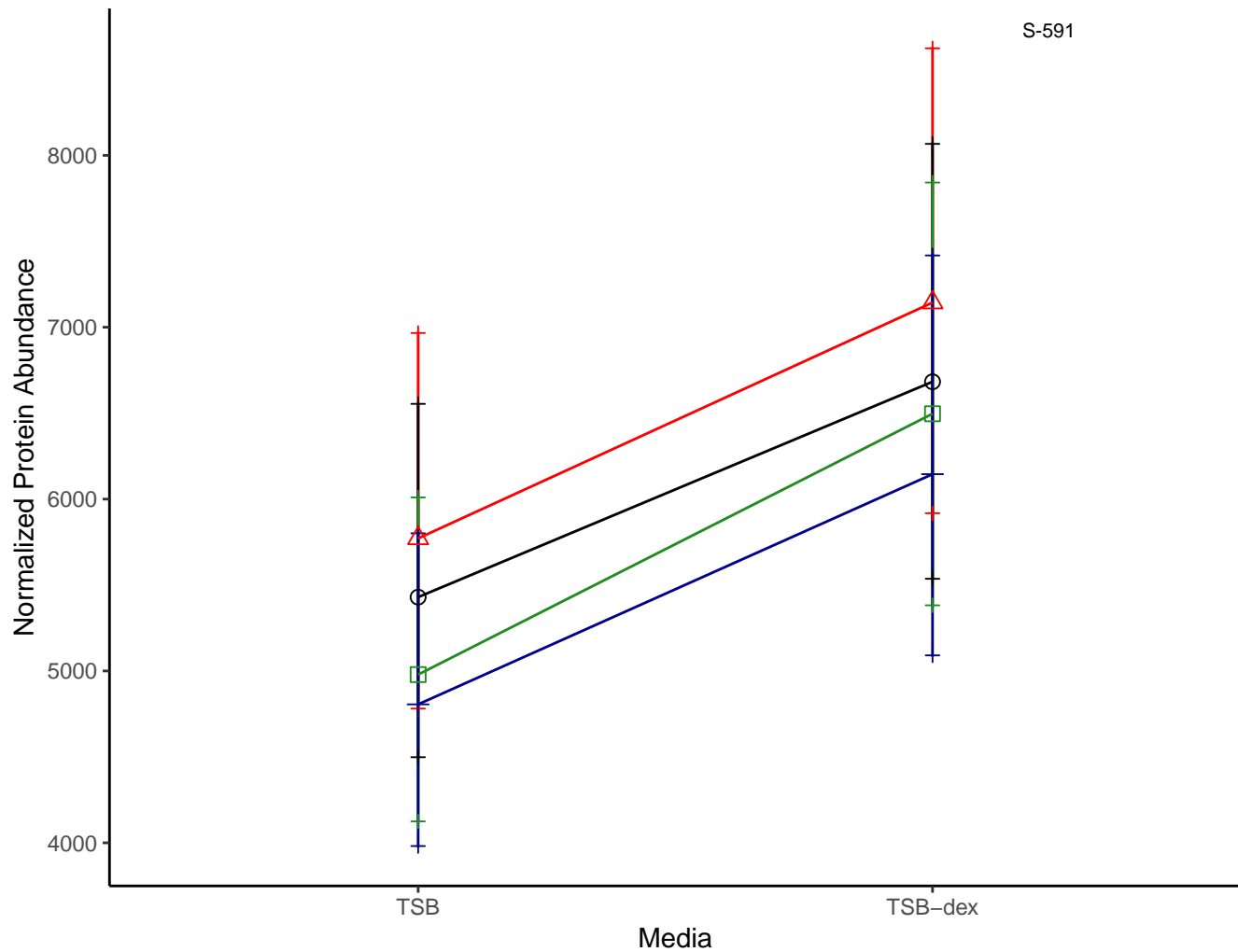
S-590



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DTD\_STAAM

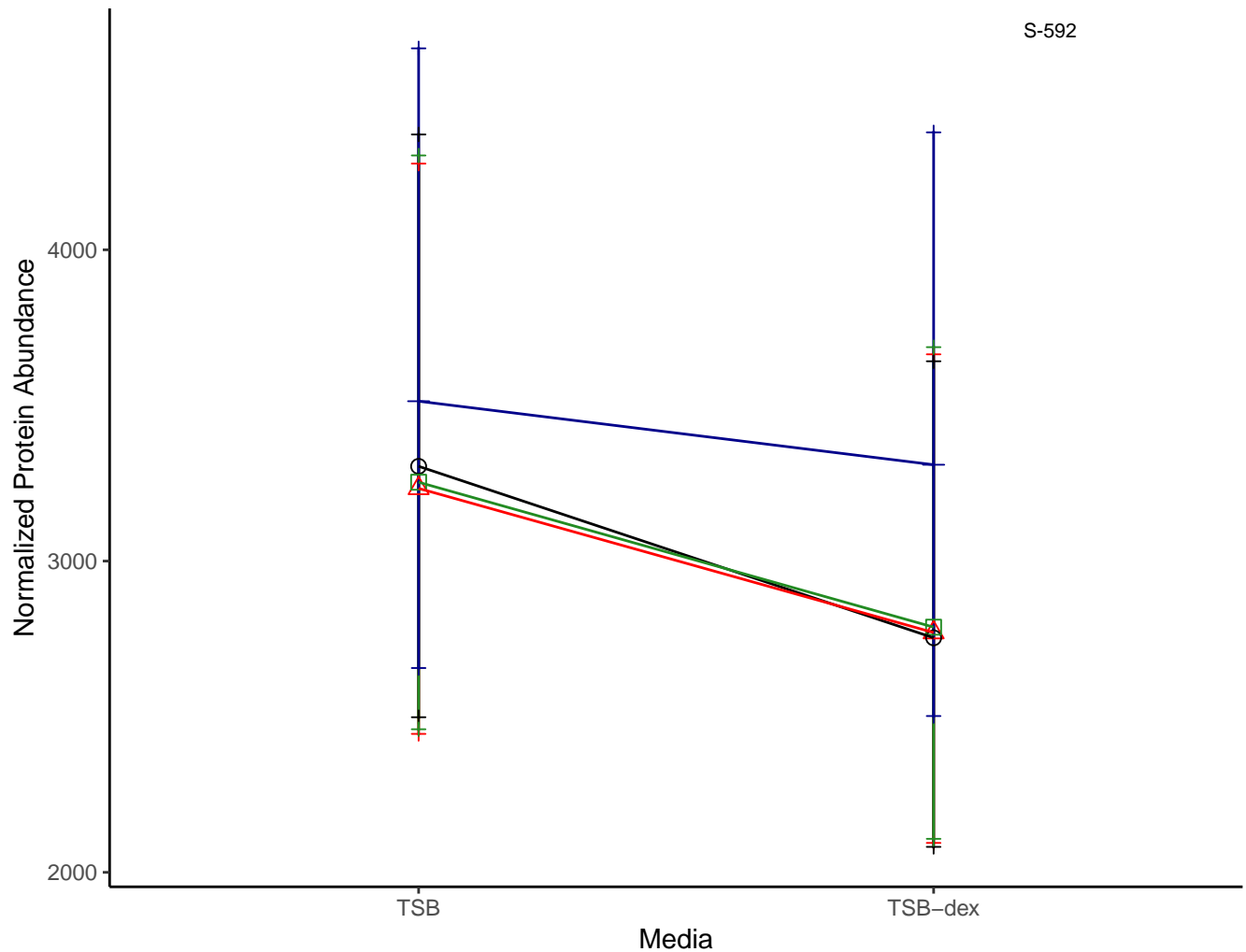
S-591



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DYR\_STAAM

S-592

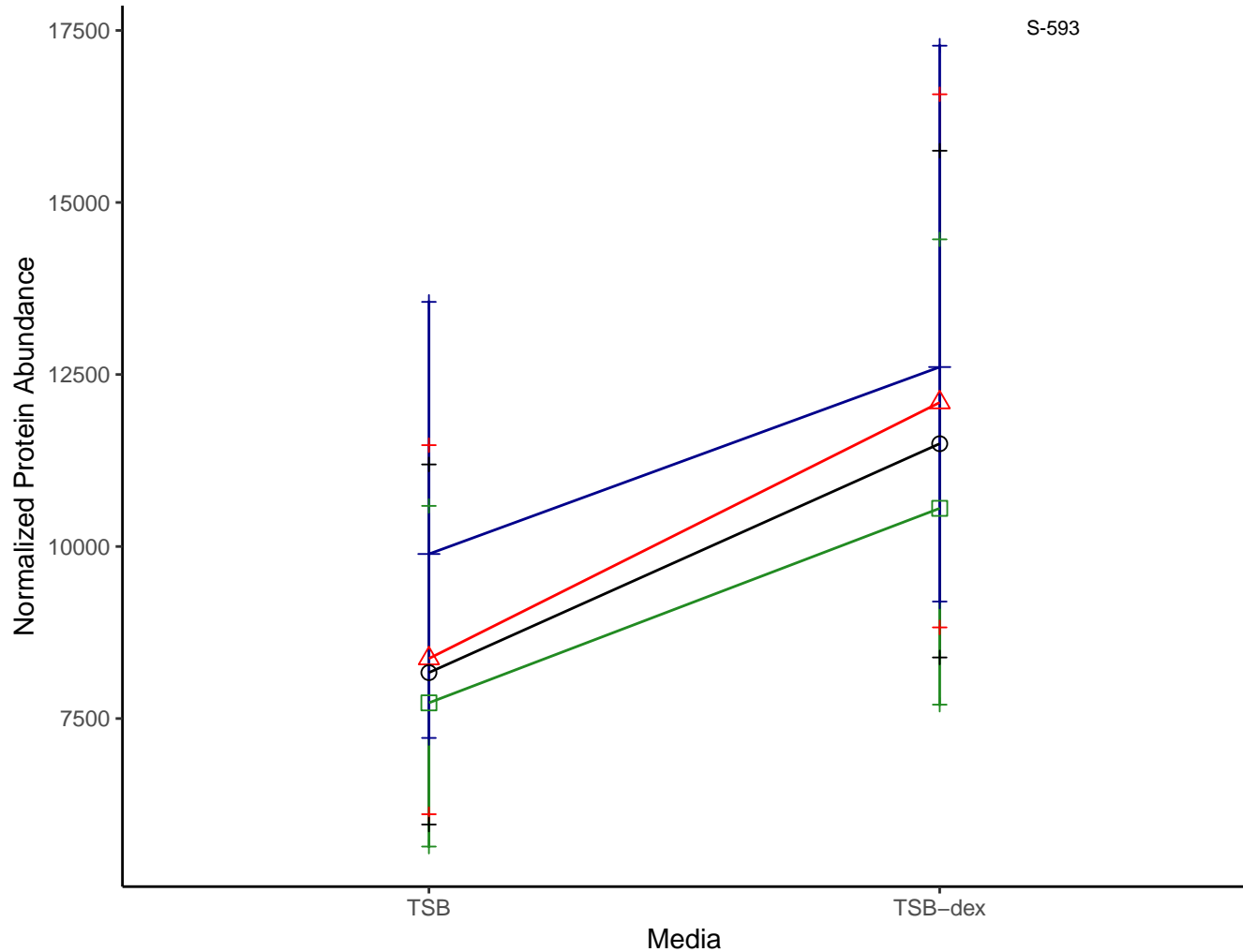


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# EBPS\_STAAM

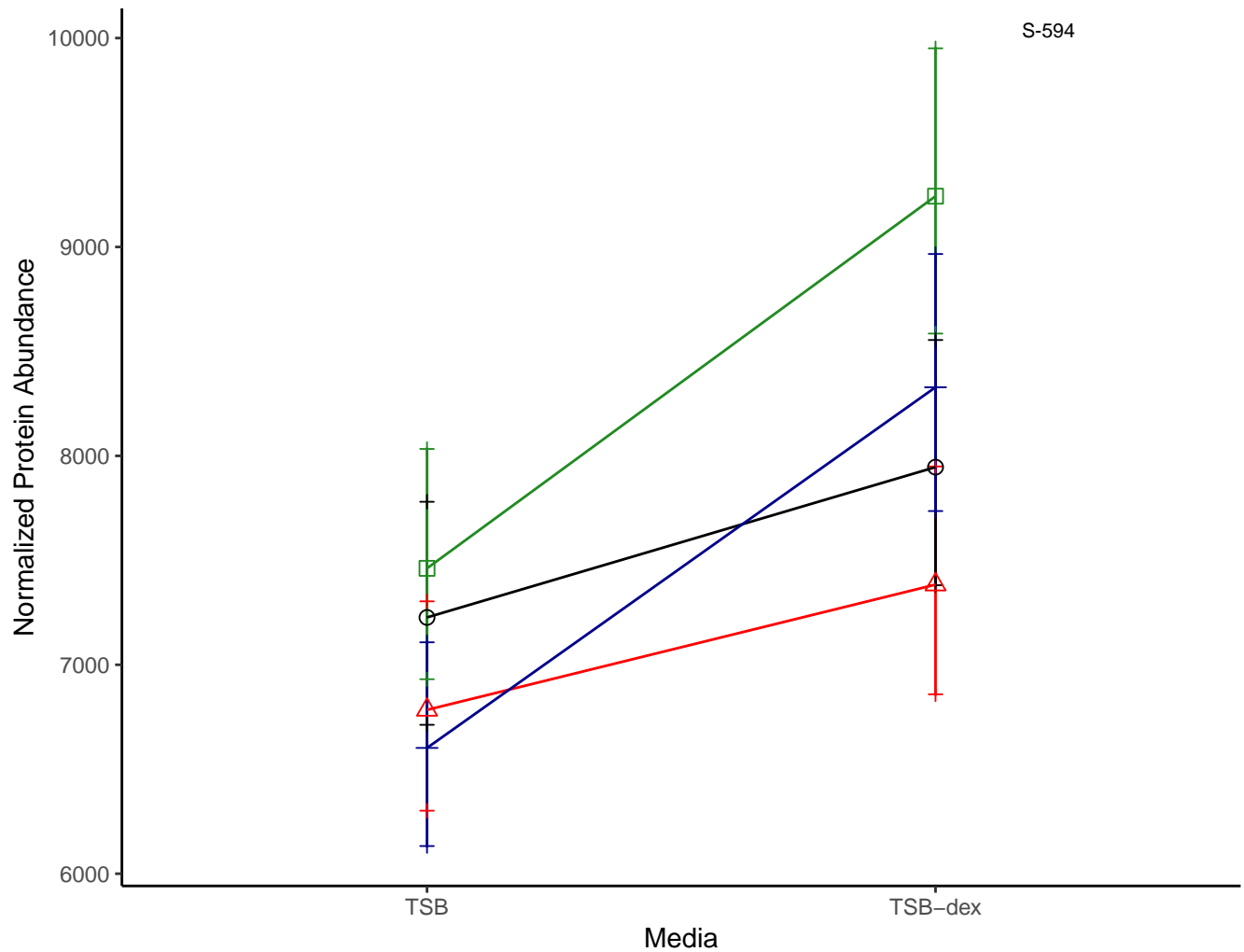
S-593



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ECFA1\_STAAM

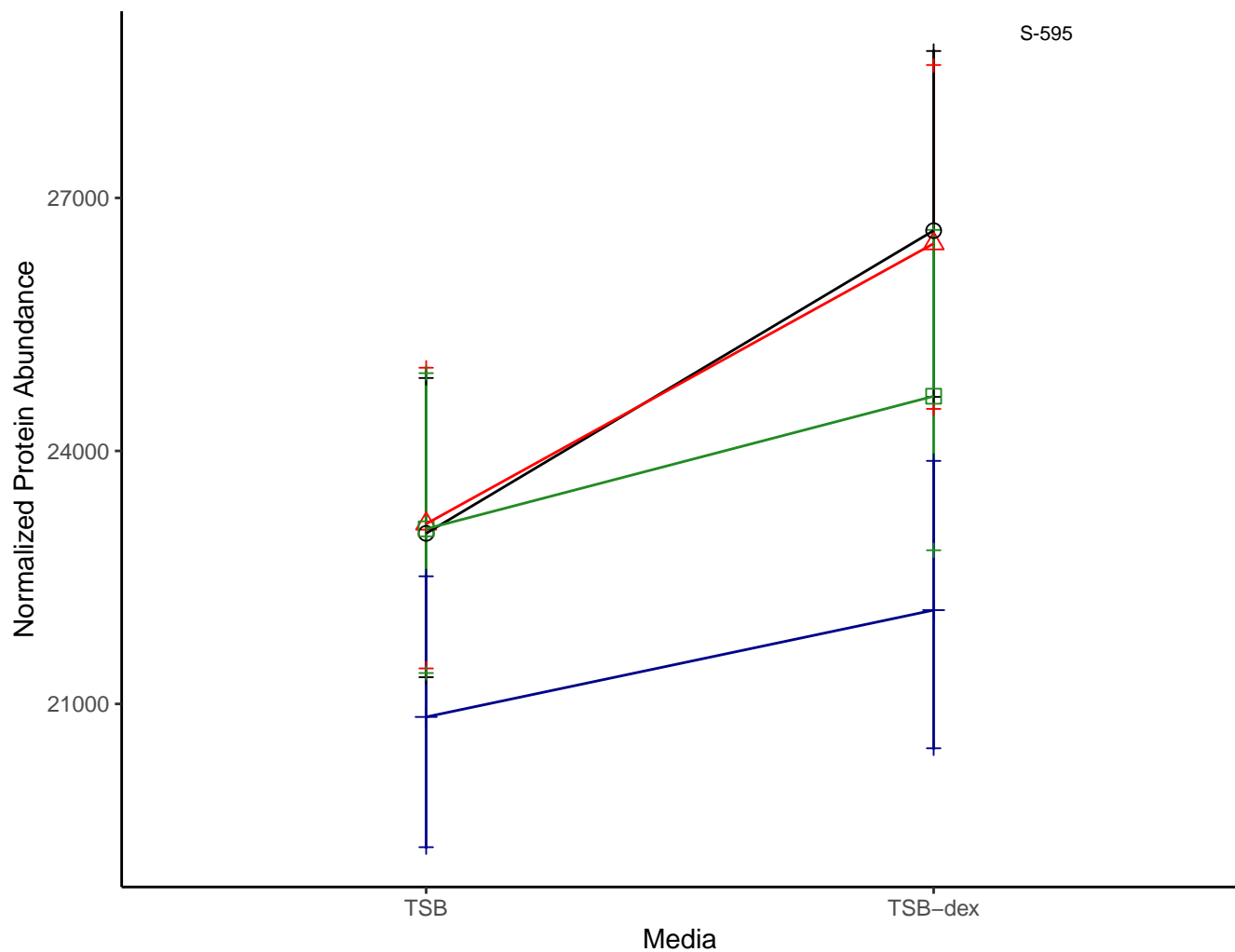
S-594



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EFG\_STAAM

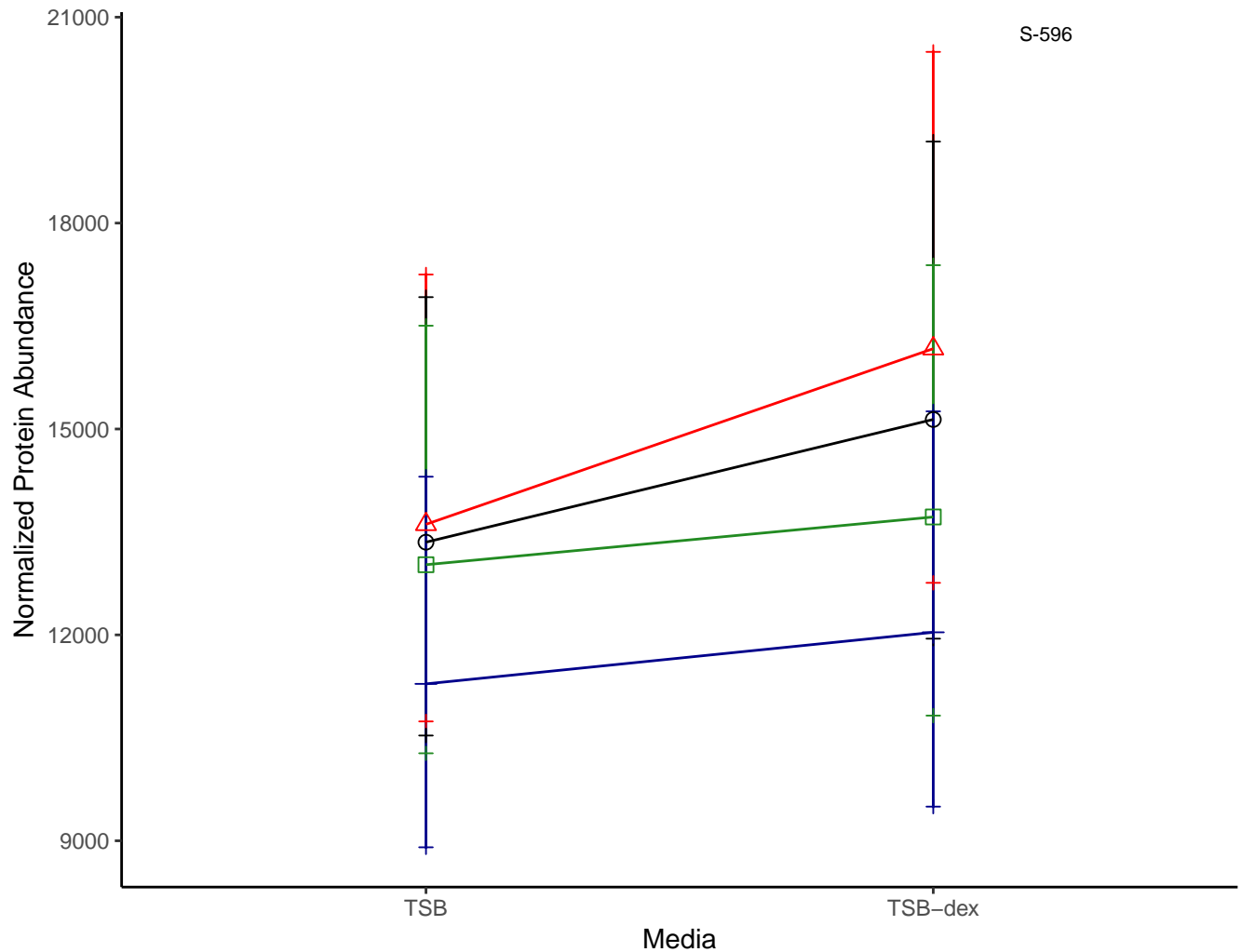
S-595



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# EFP\_STAAM

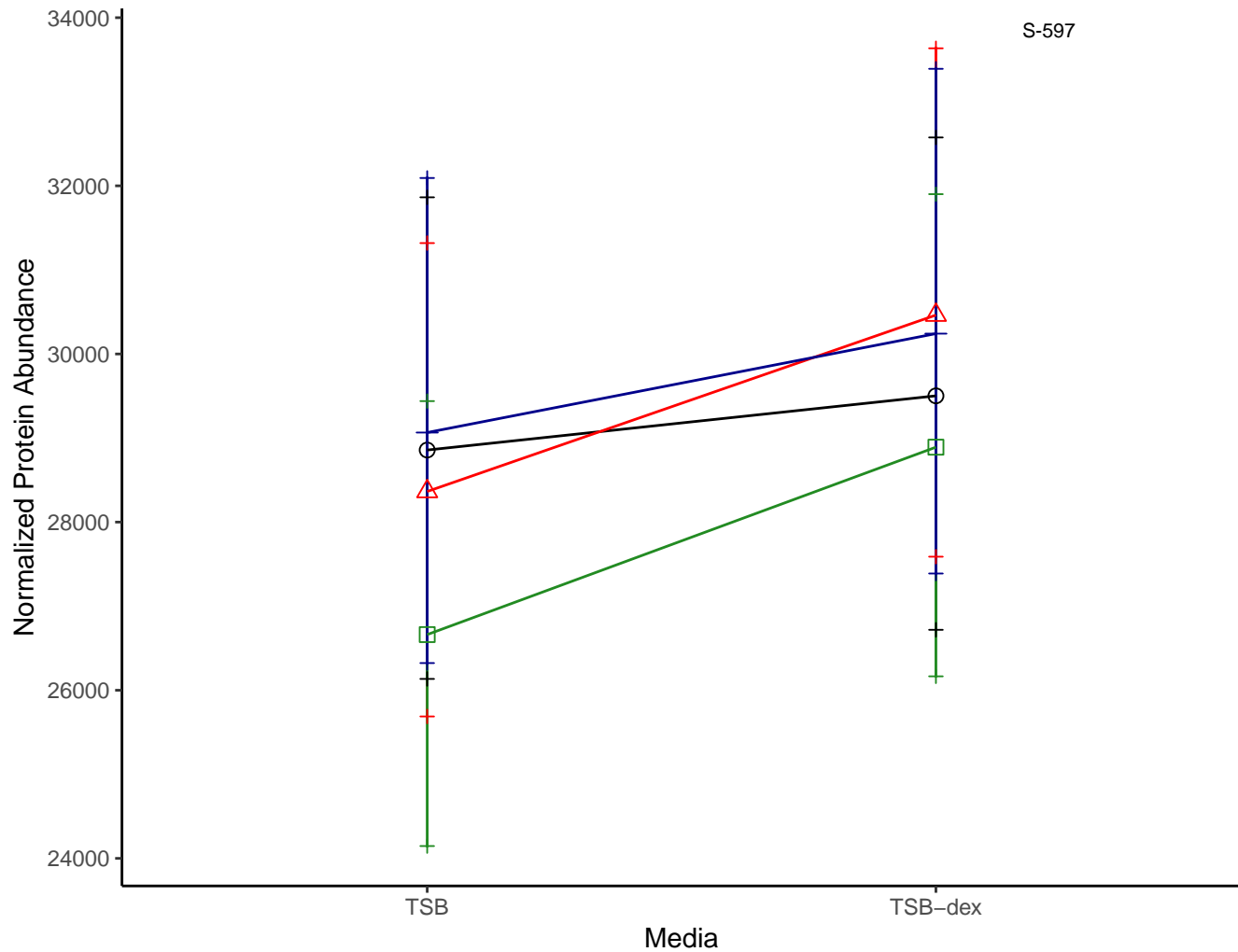
S-596



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# EFTS\_STAAM

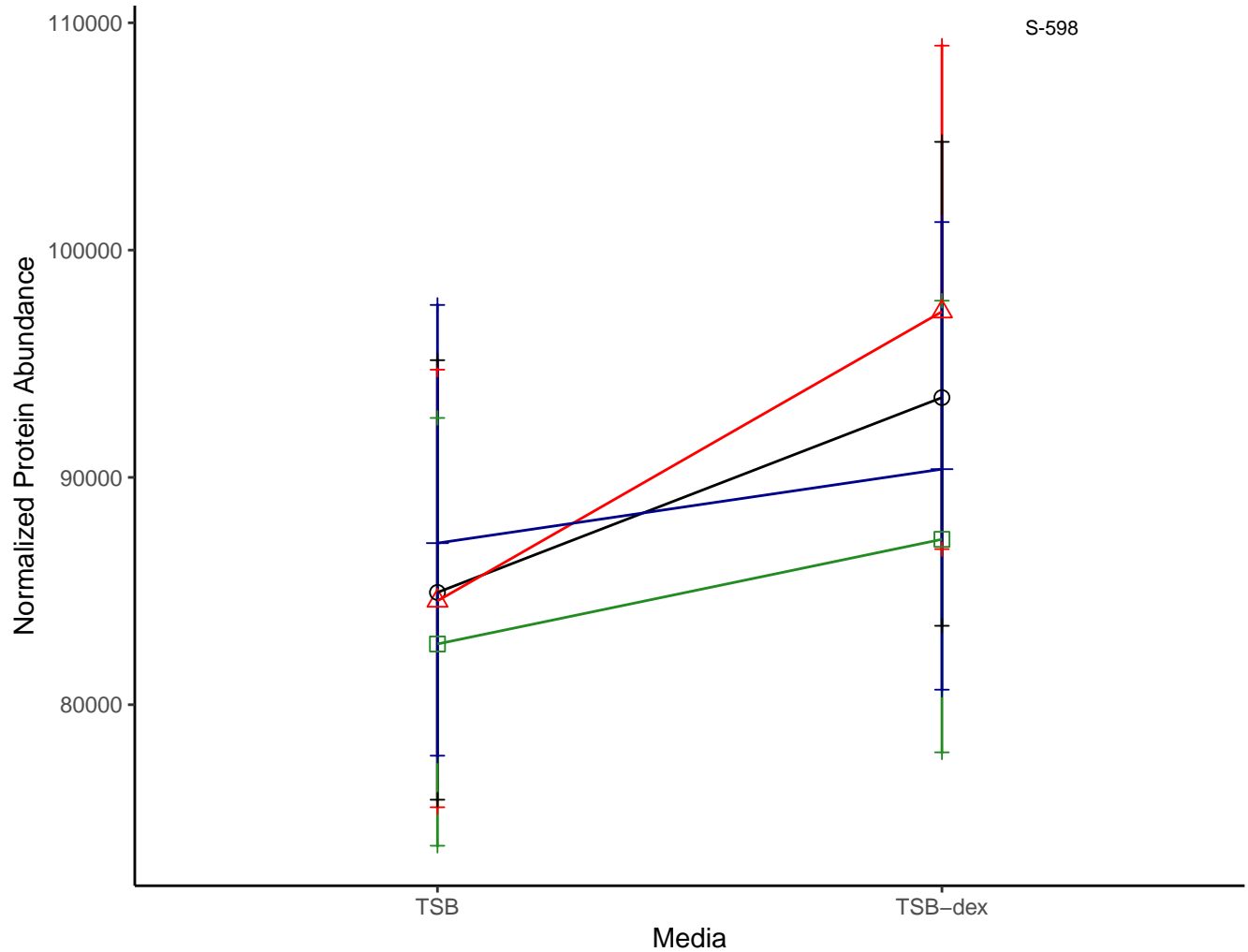
S-597



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# EFTU\_STAAM

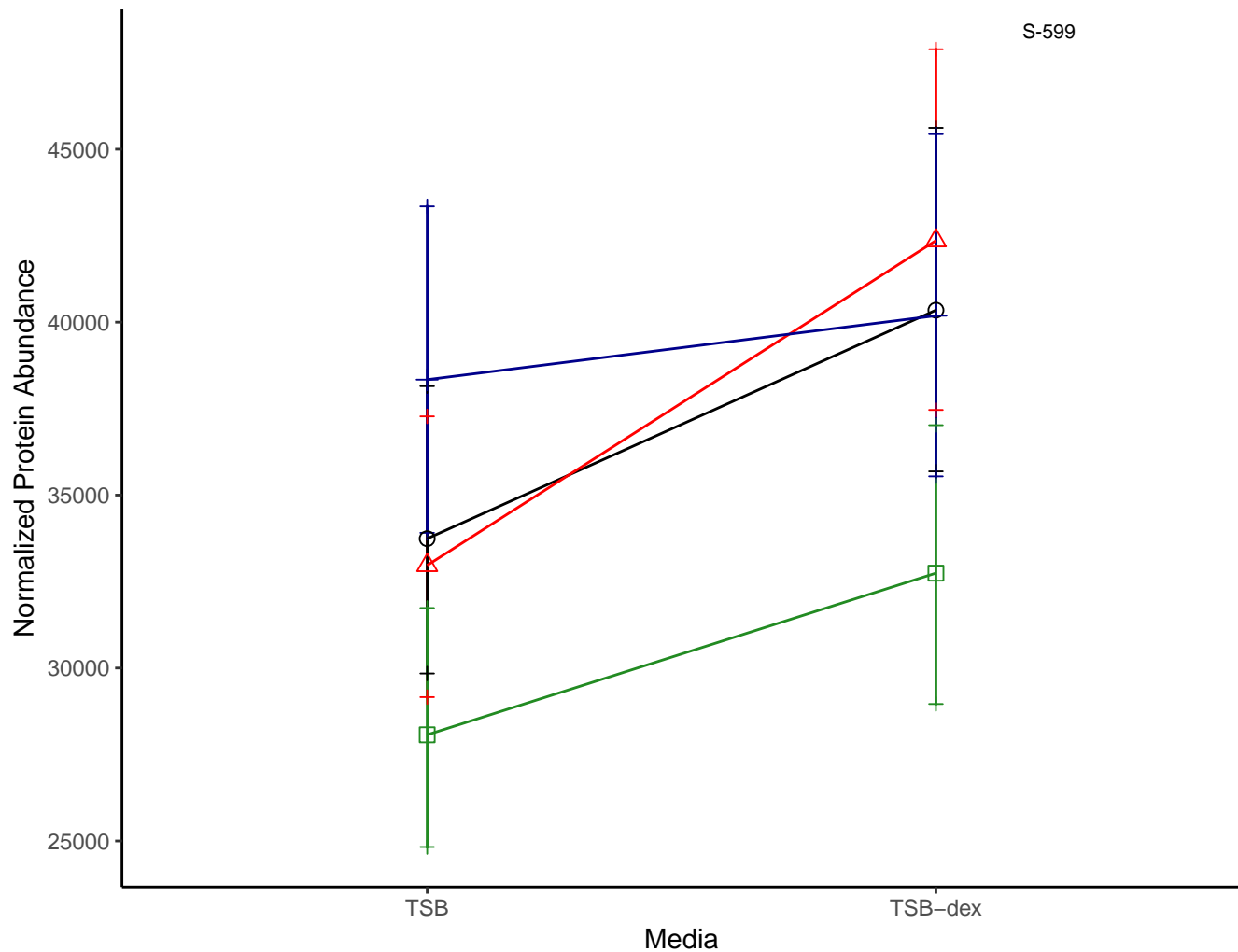
S-598



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ENO\_STAAM

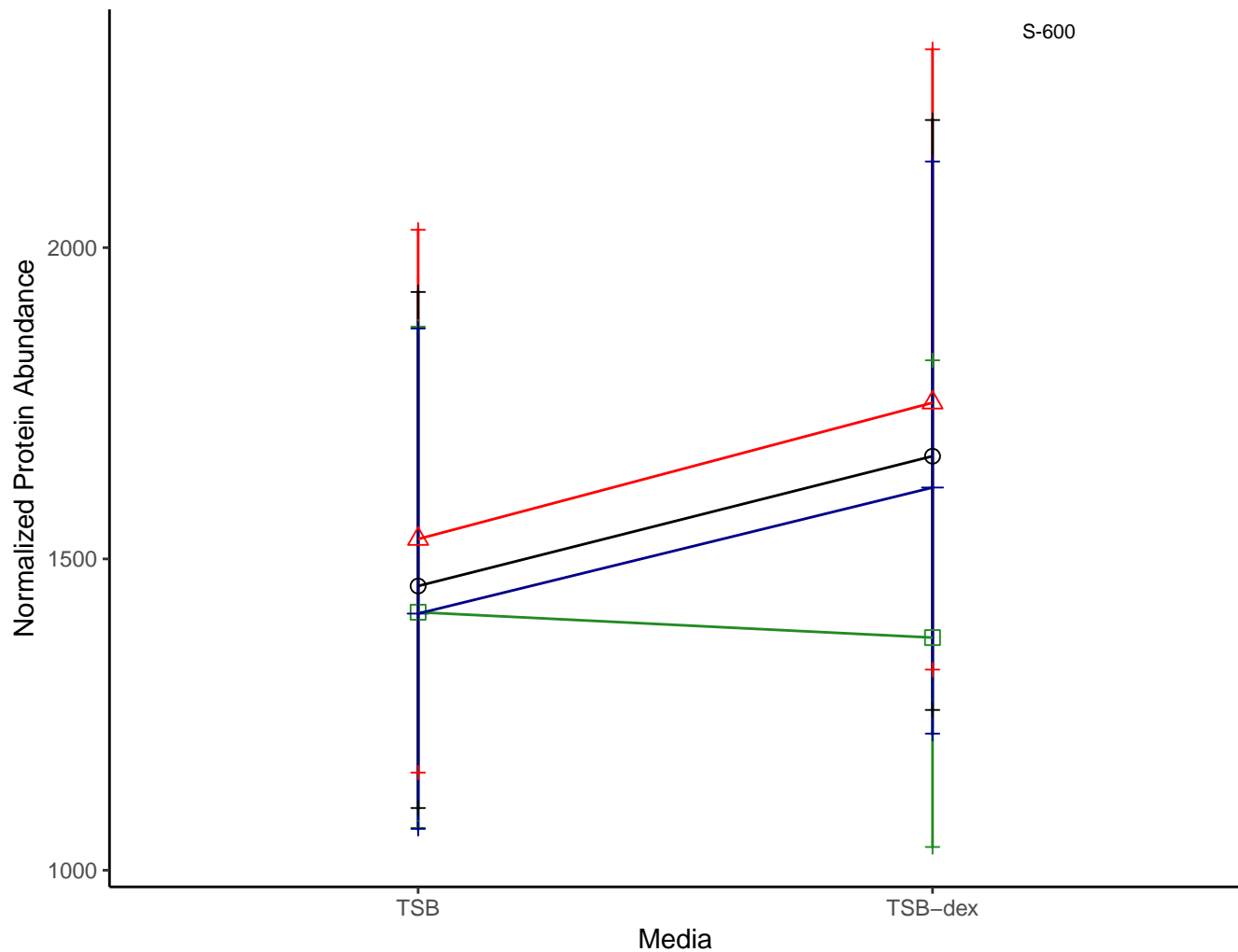
S-599



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ERA\_STAAM

S-600

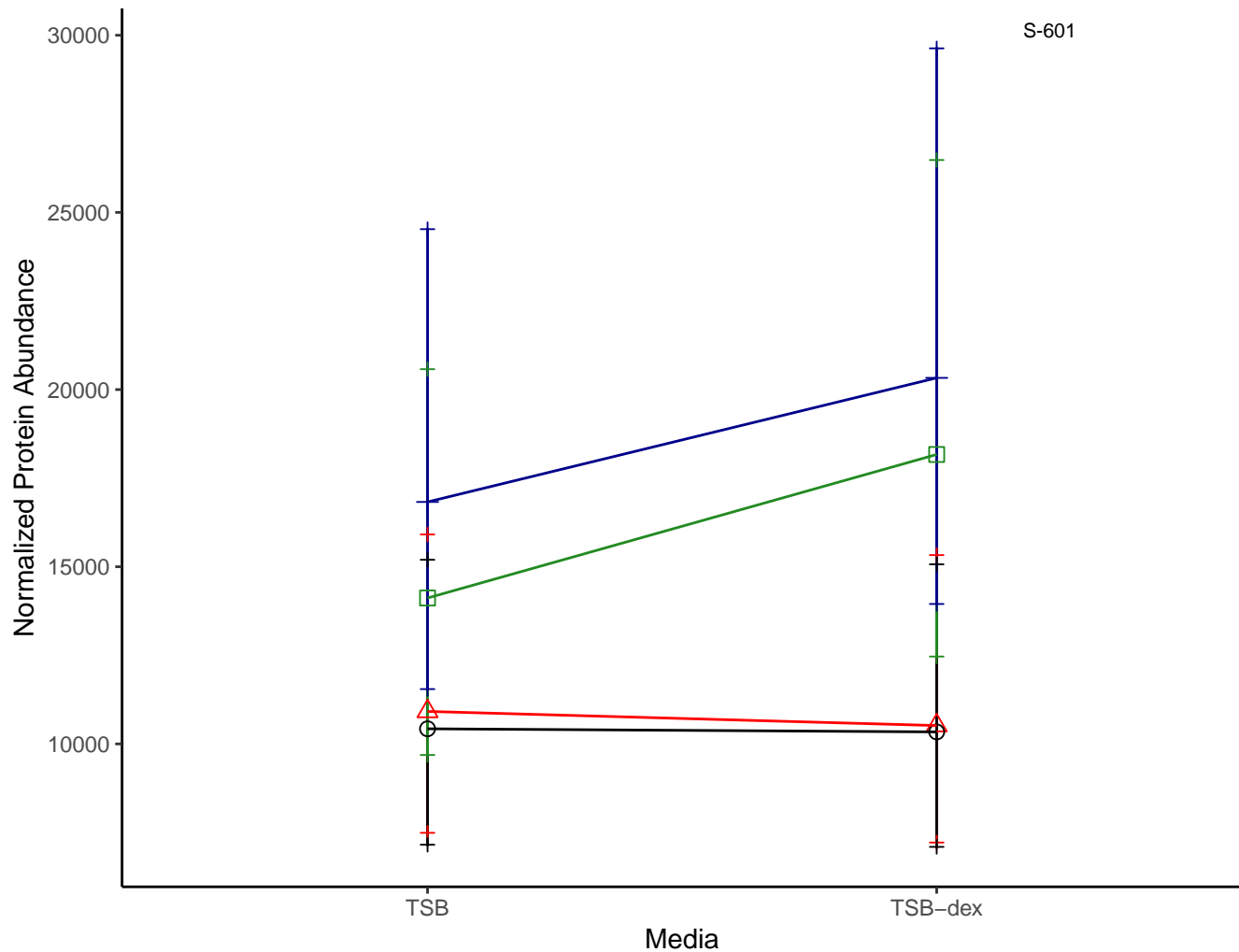


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# ERMA\_STAAM

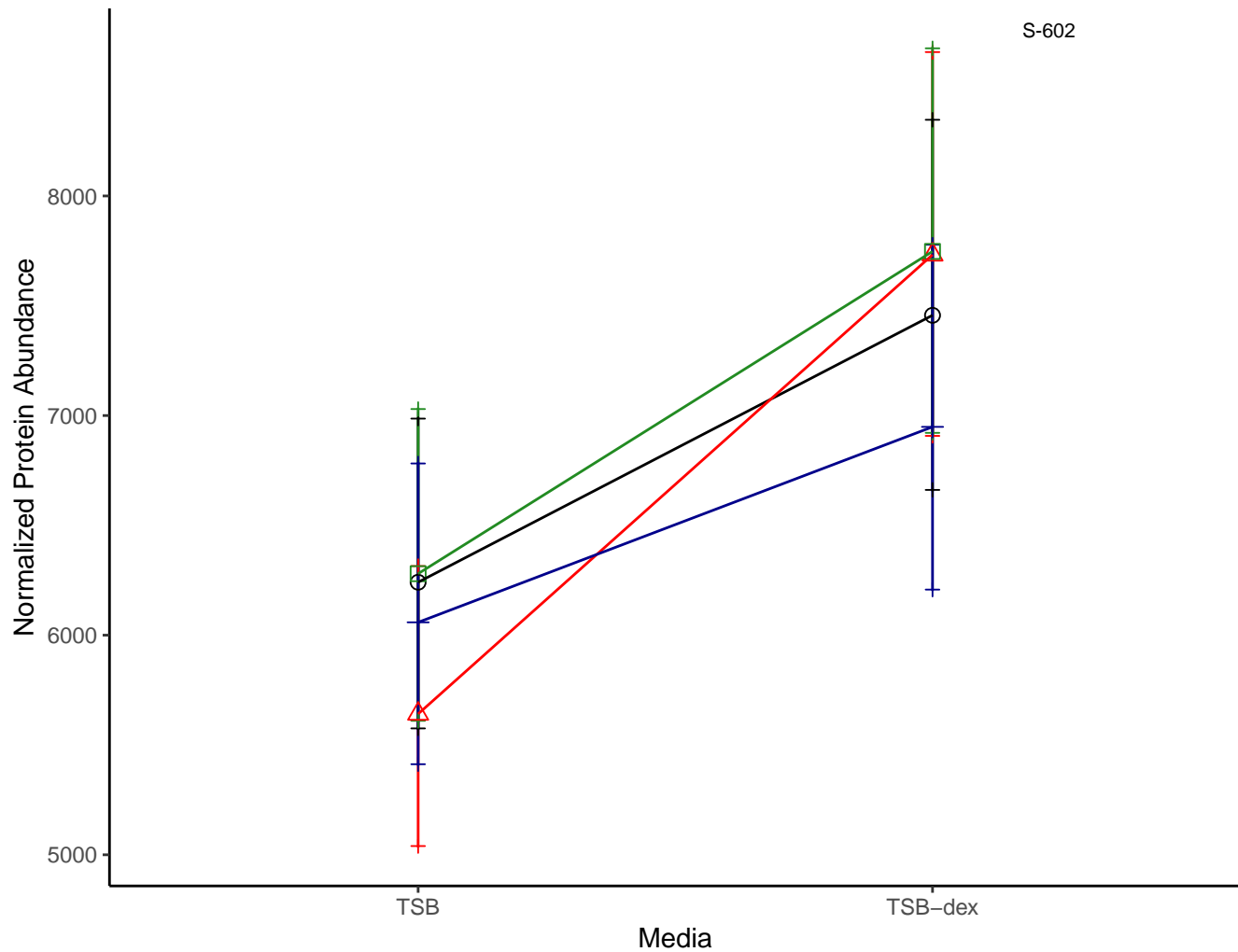
S-601



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ESSA\_STAAM

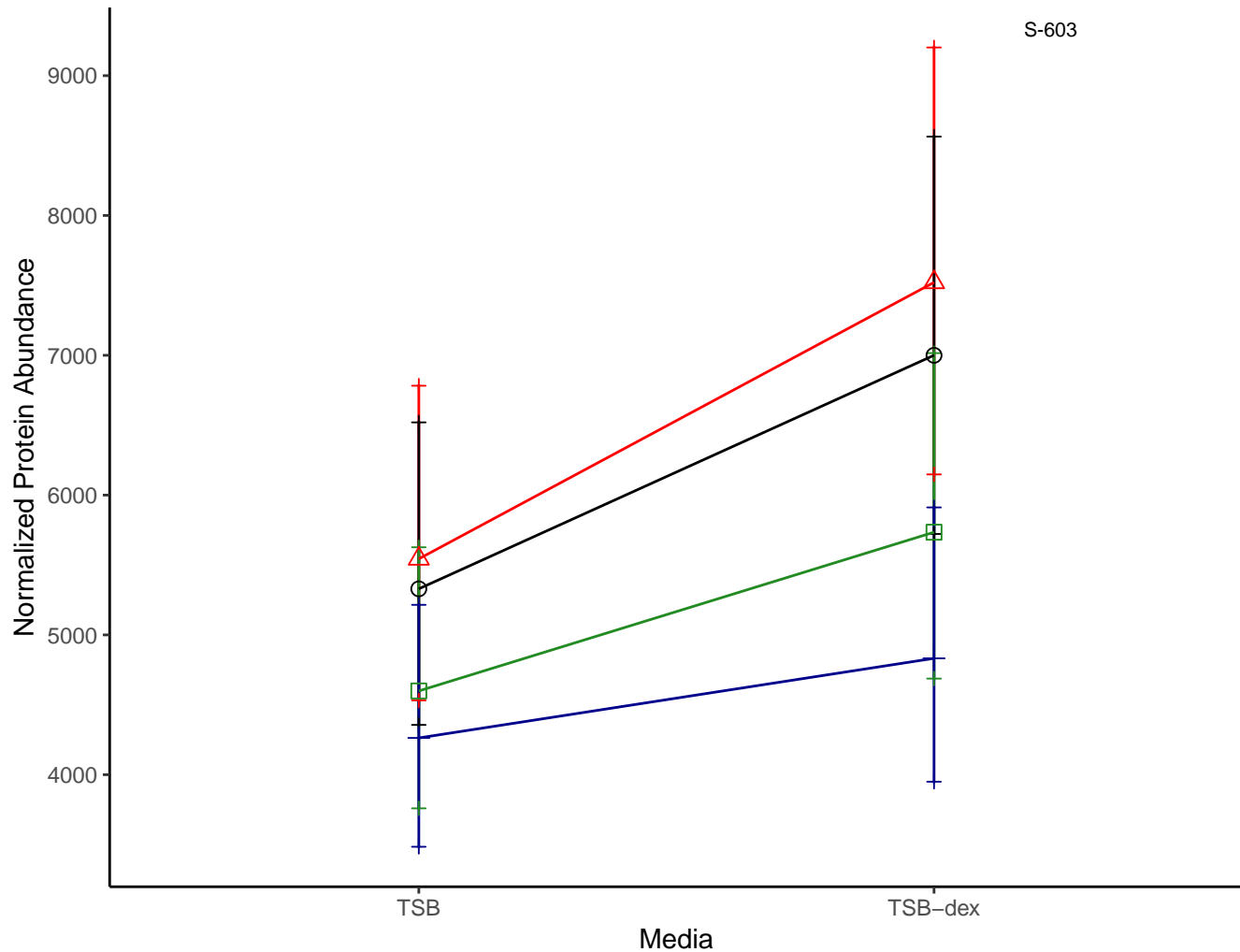
S-602



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ESXA\_STAAM

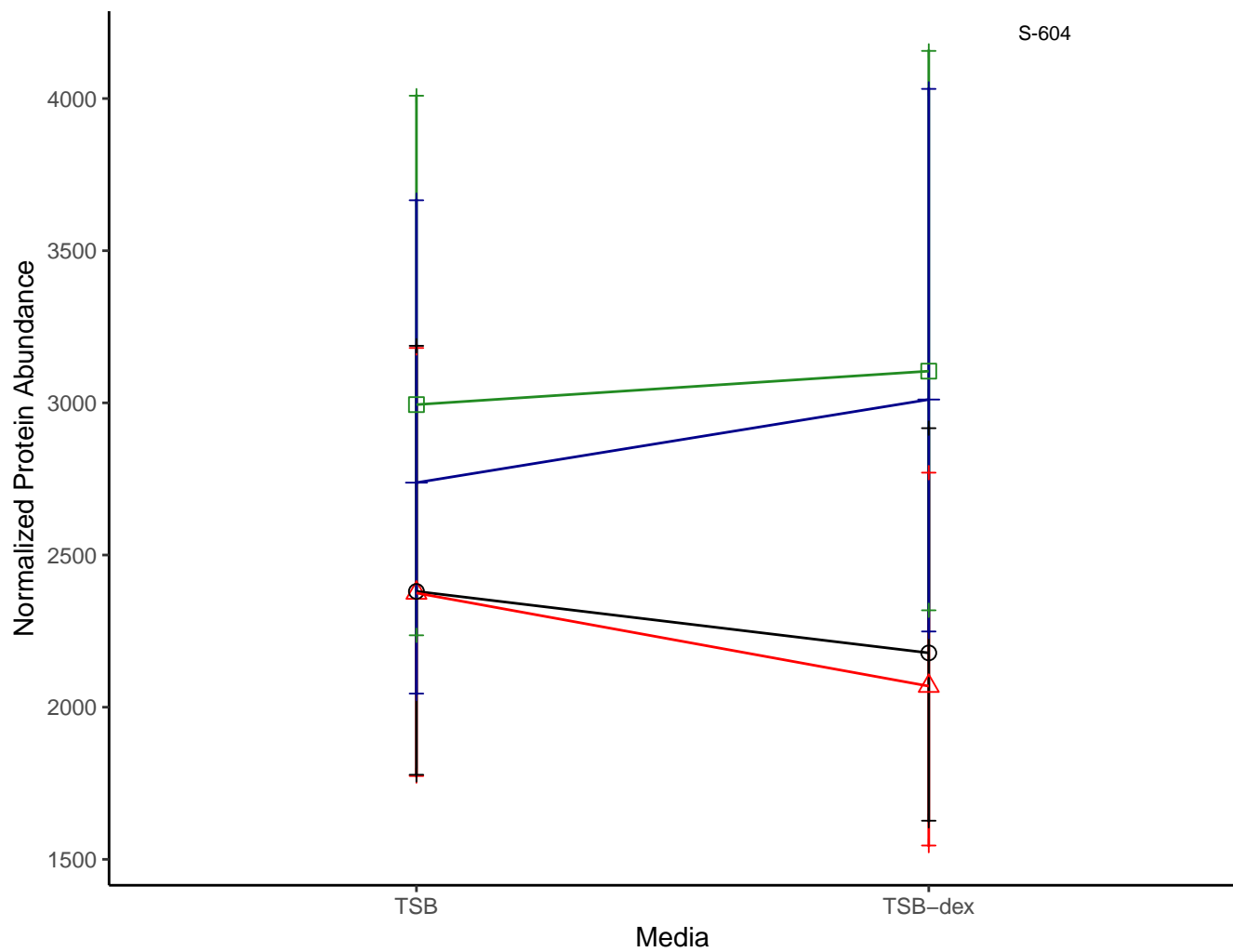
S-603



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# EX7L\_STAAM

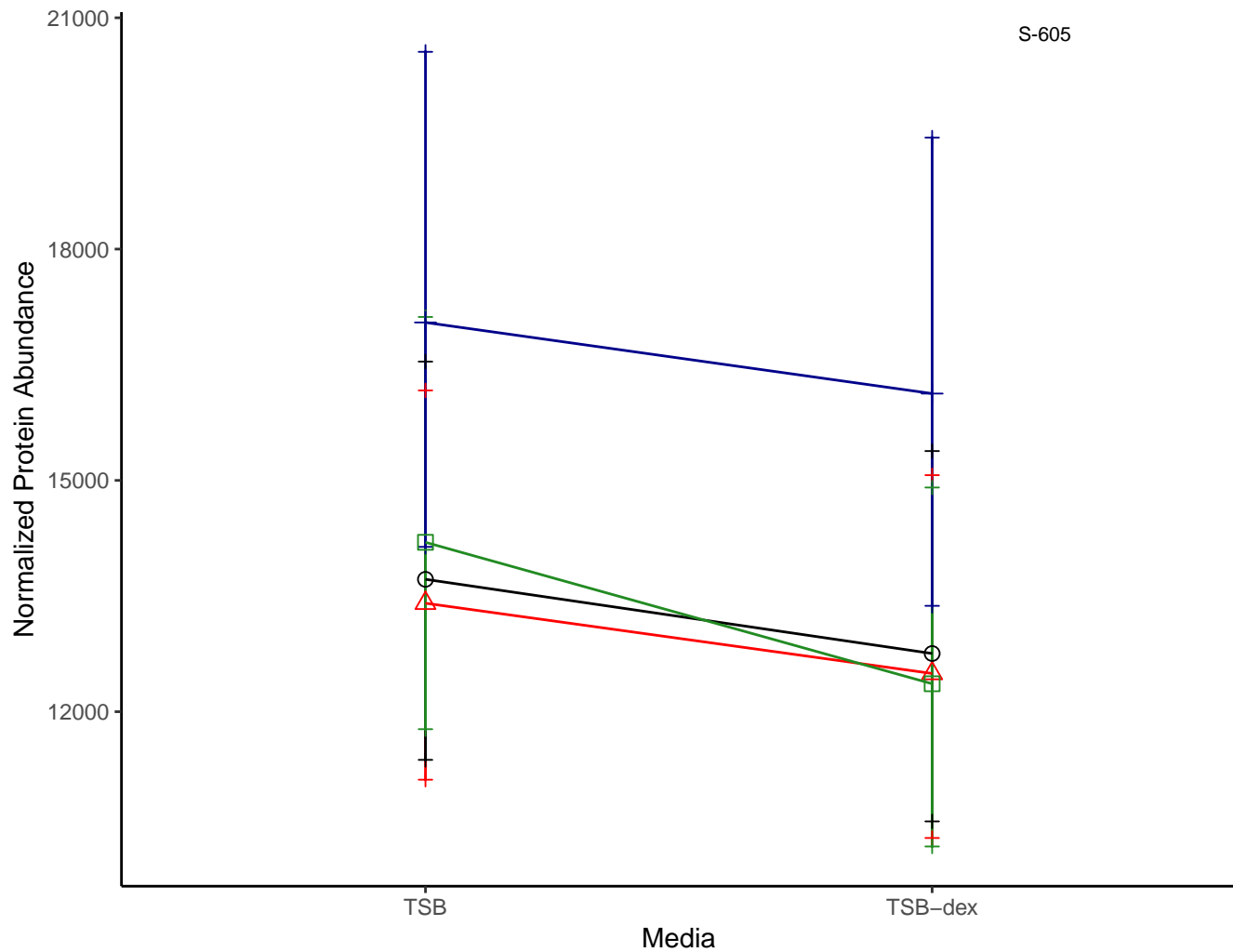
S-604



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# EZRA\_STAAM

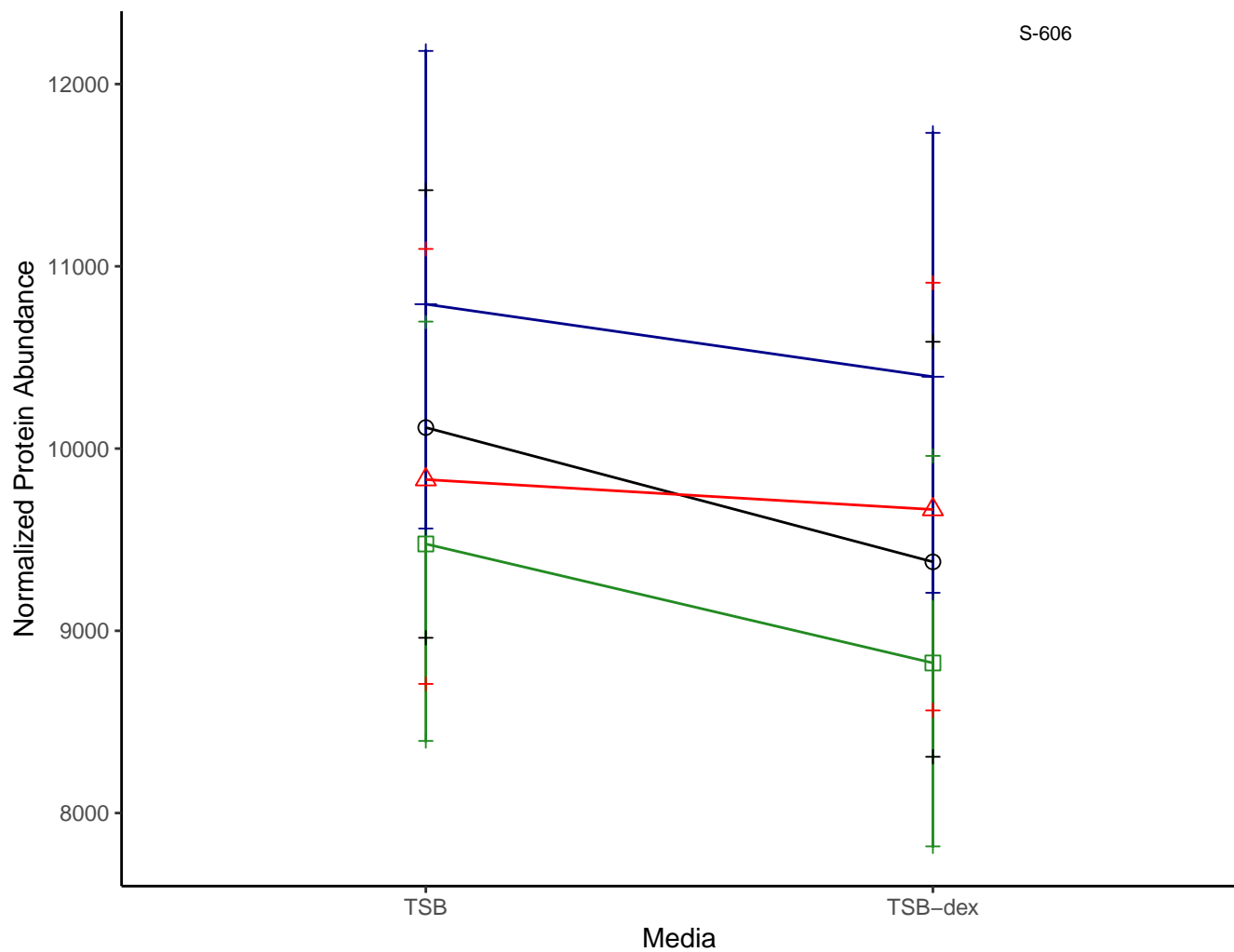
S-605



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FABD\_STAAM

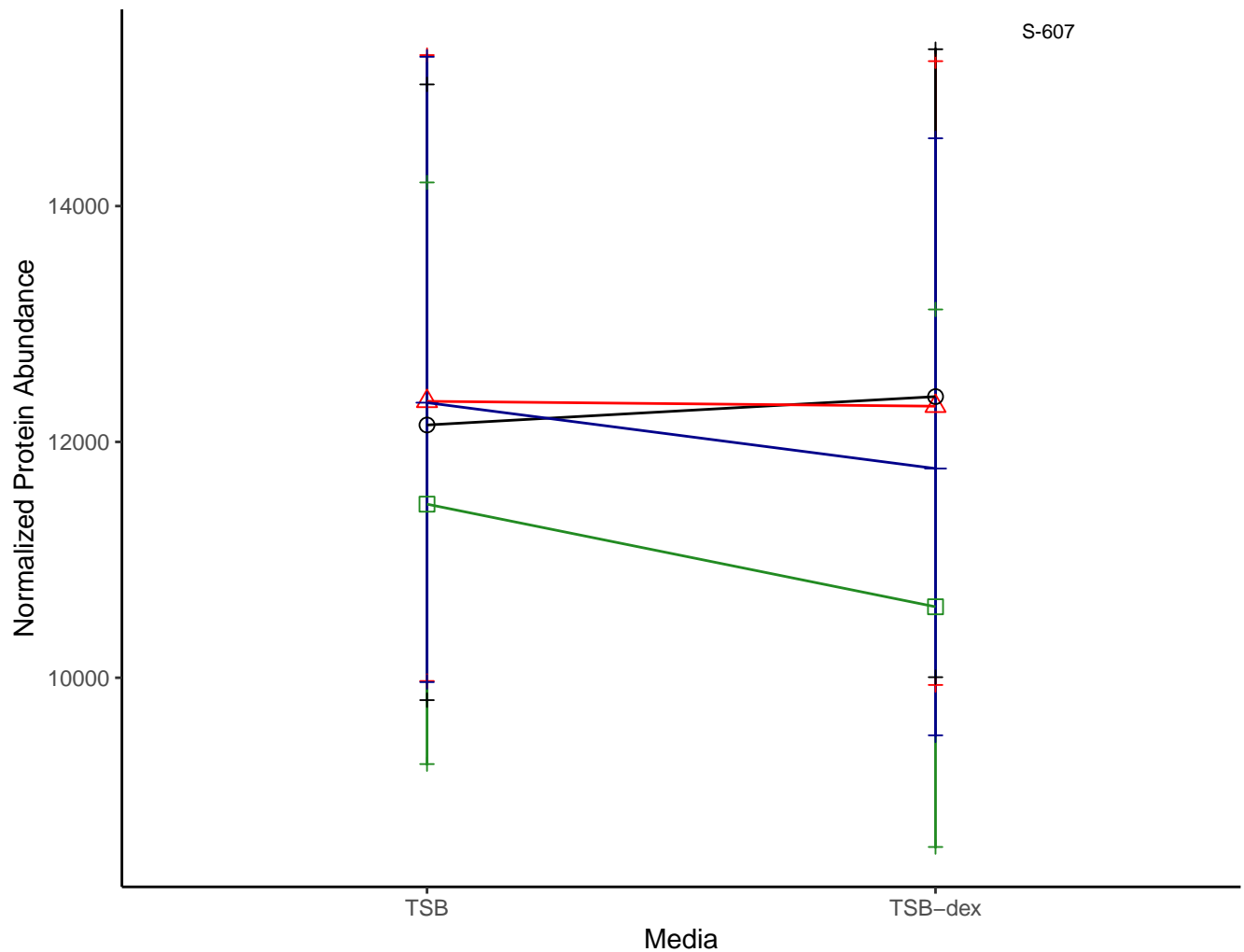
S-606



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FABF\_STAAM

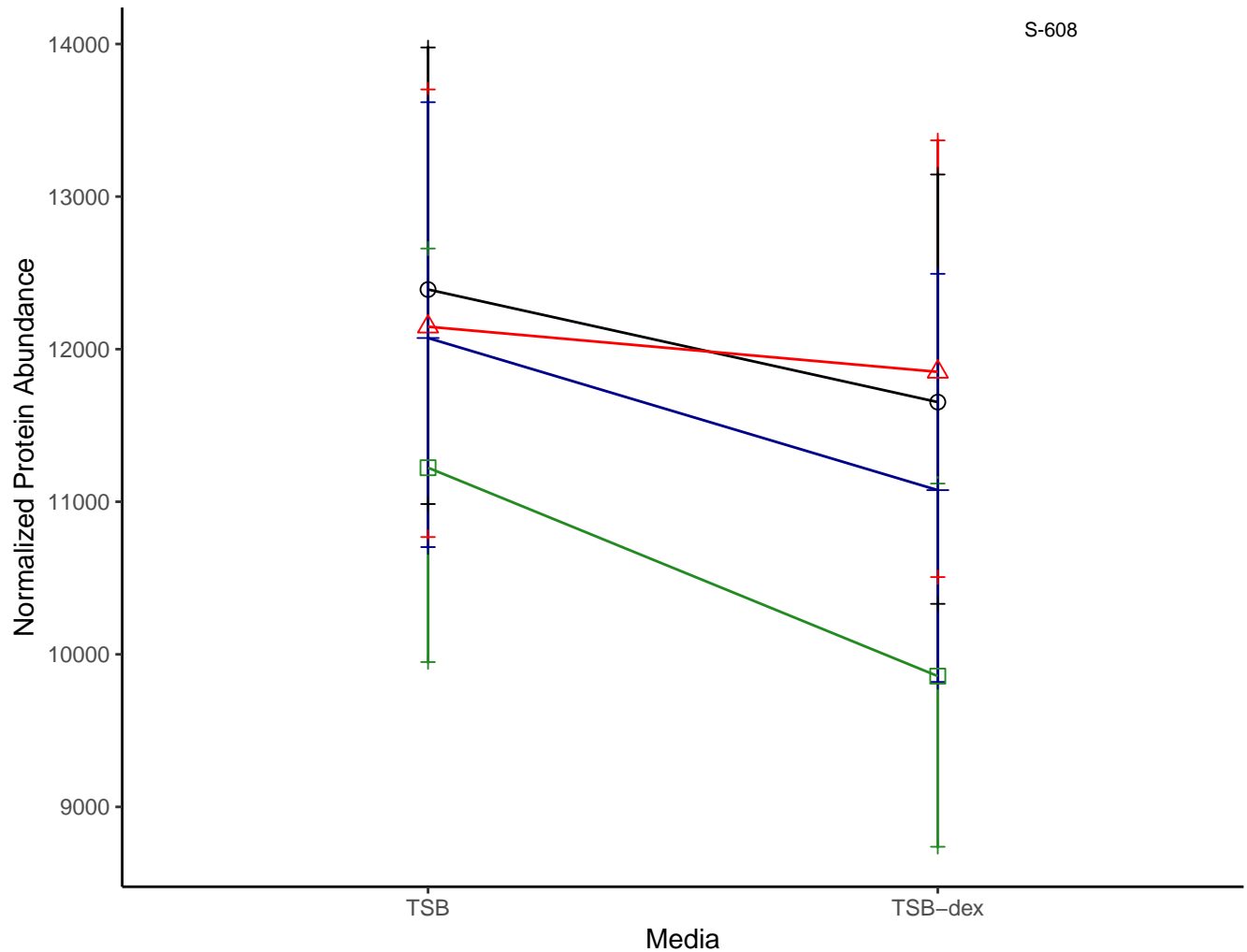
S-607



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# FABG\_STAAM

S-608

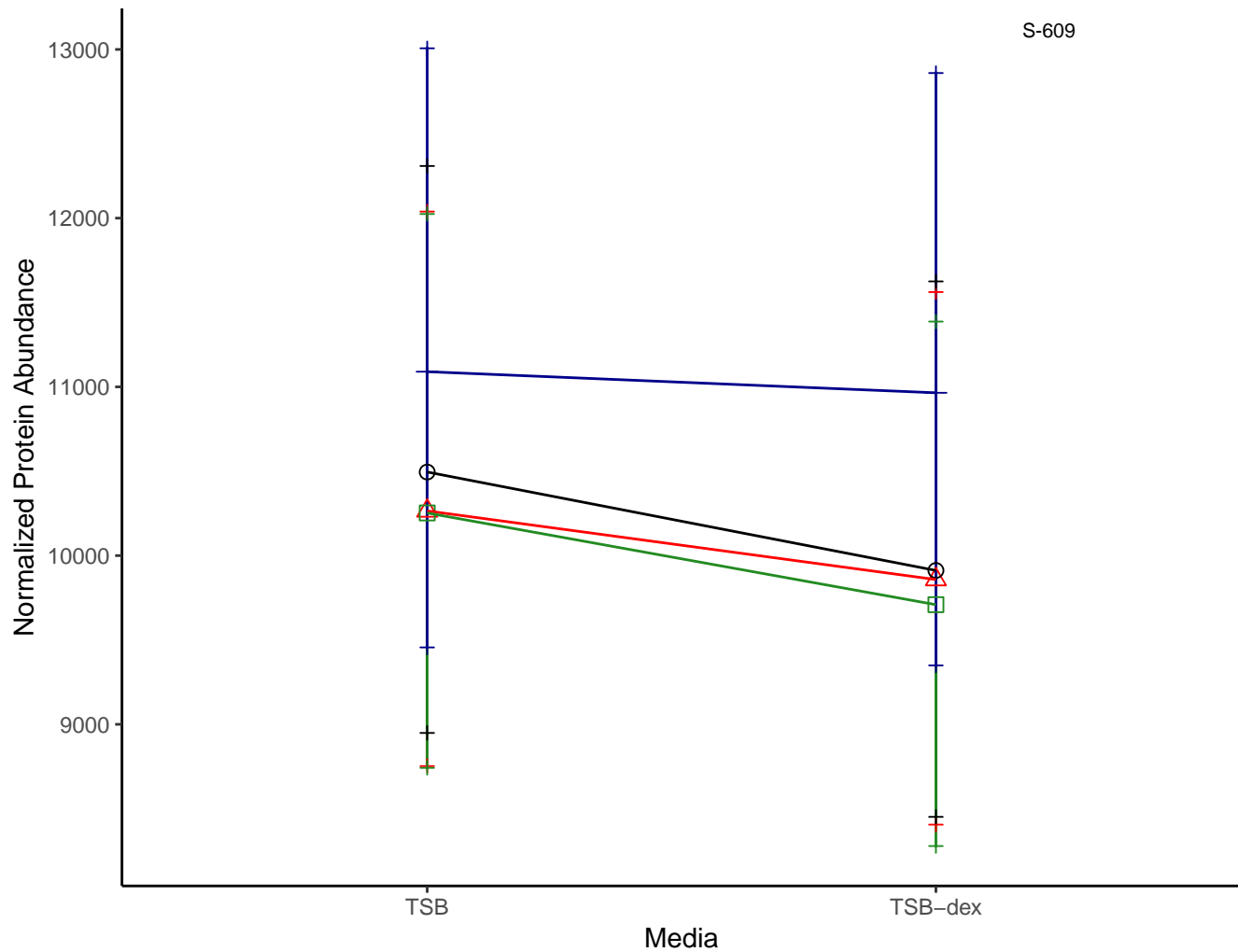


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# FABH\_STAAM

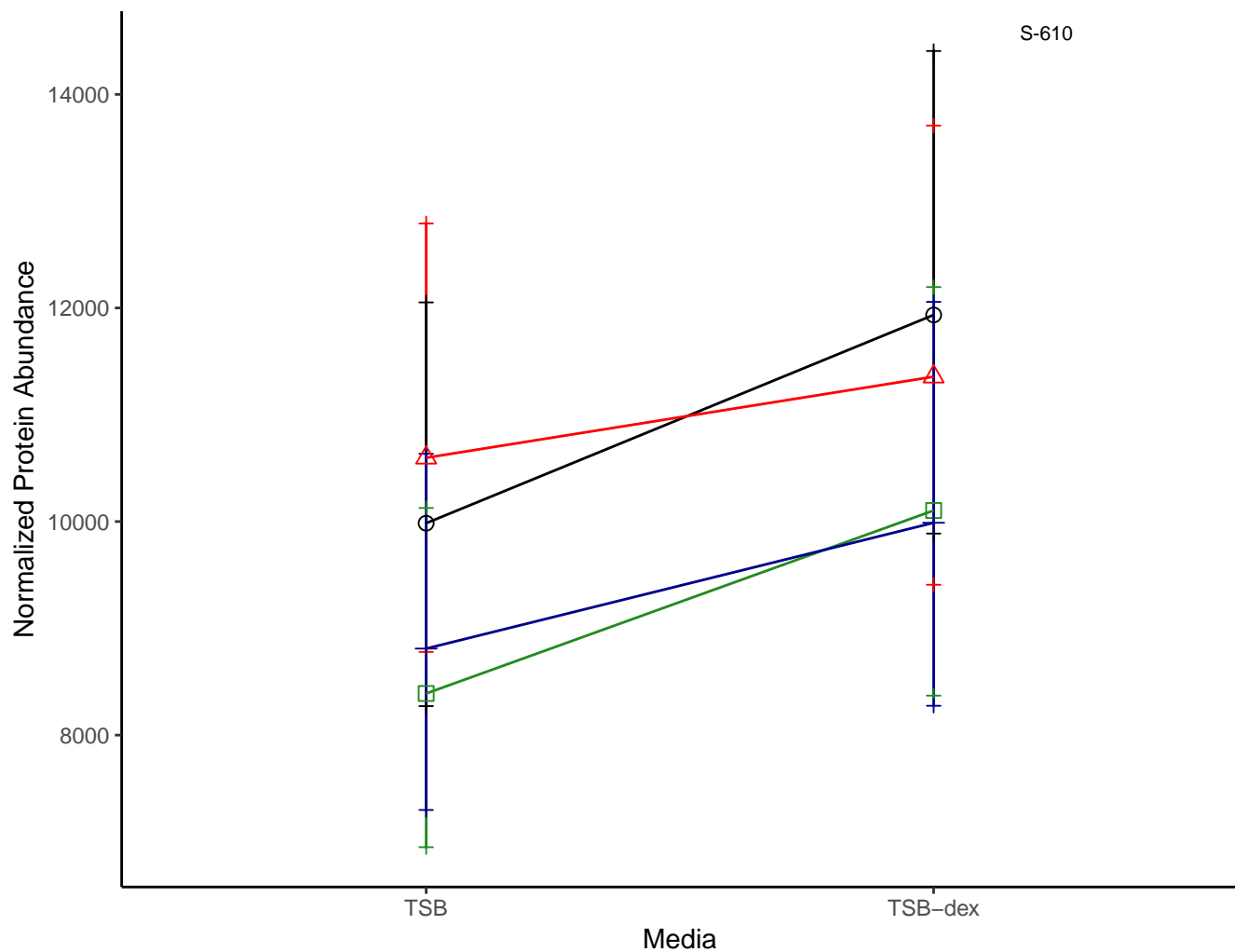
S-609



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FABZ\_STAAM

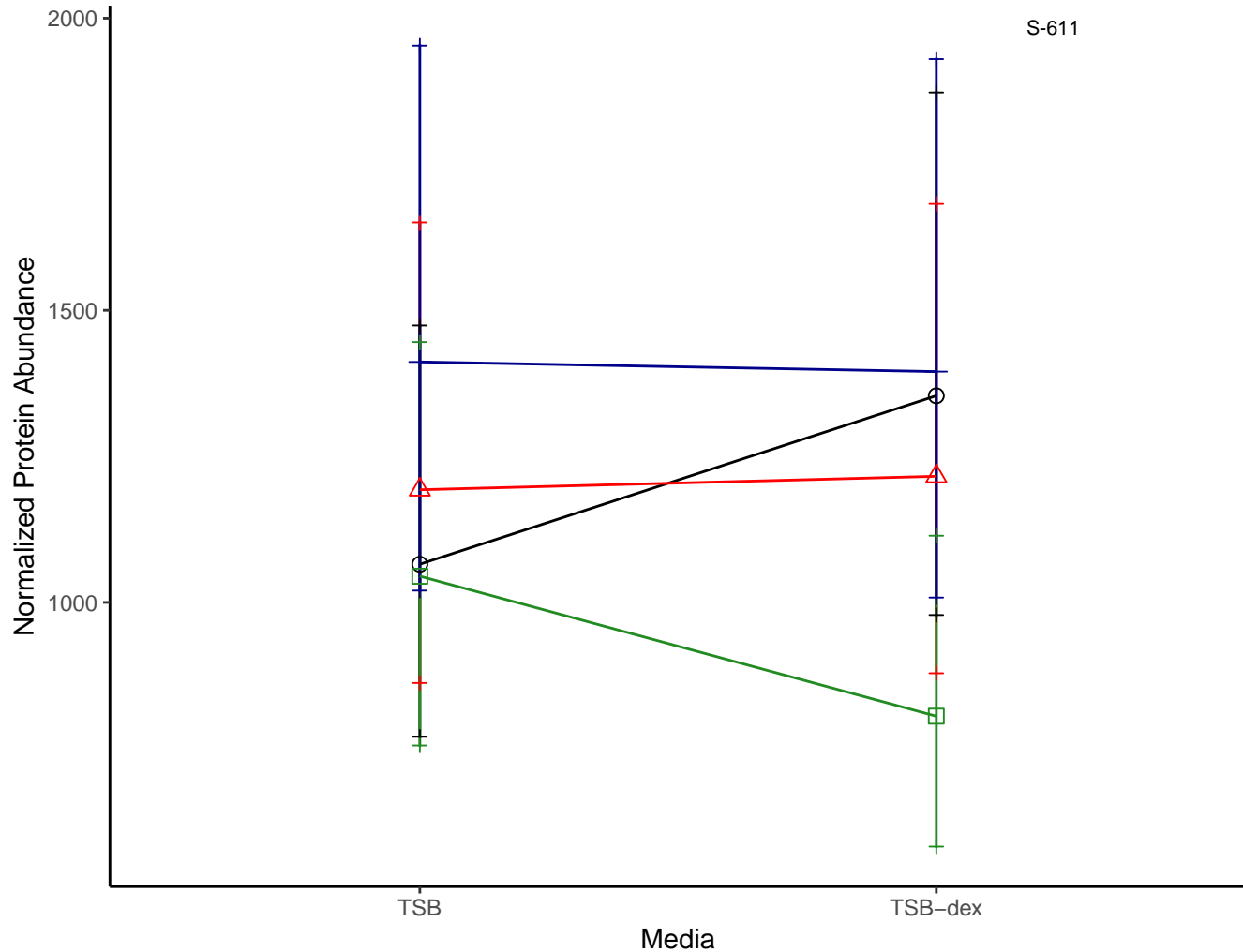
S-610



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FEMA\_STAAM

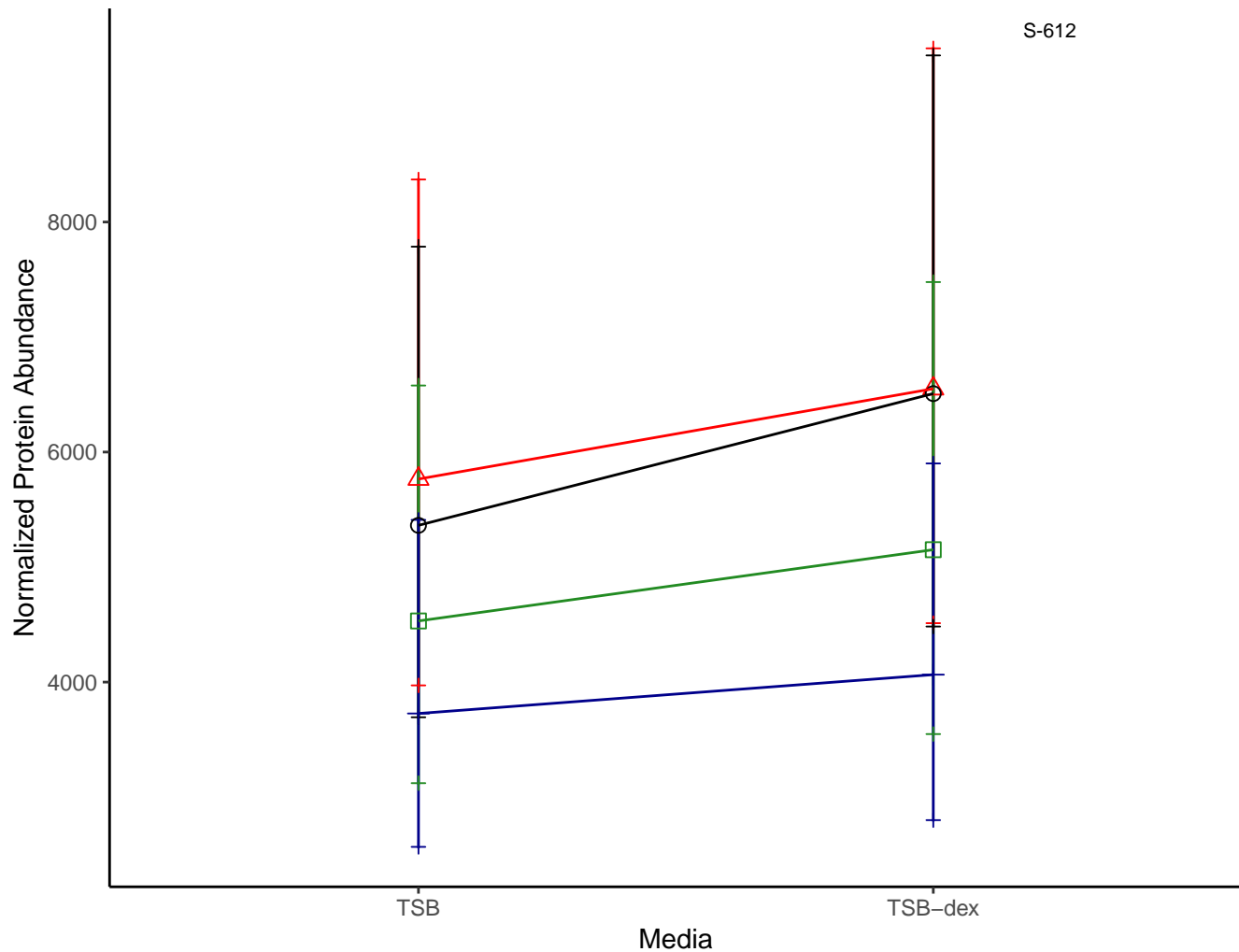
S-611



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FEMB\_STAAM

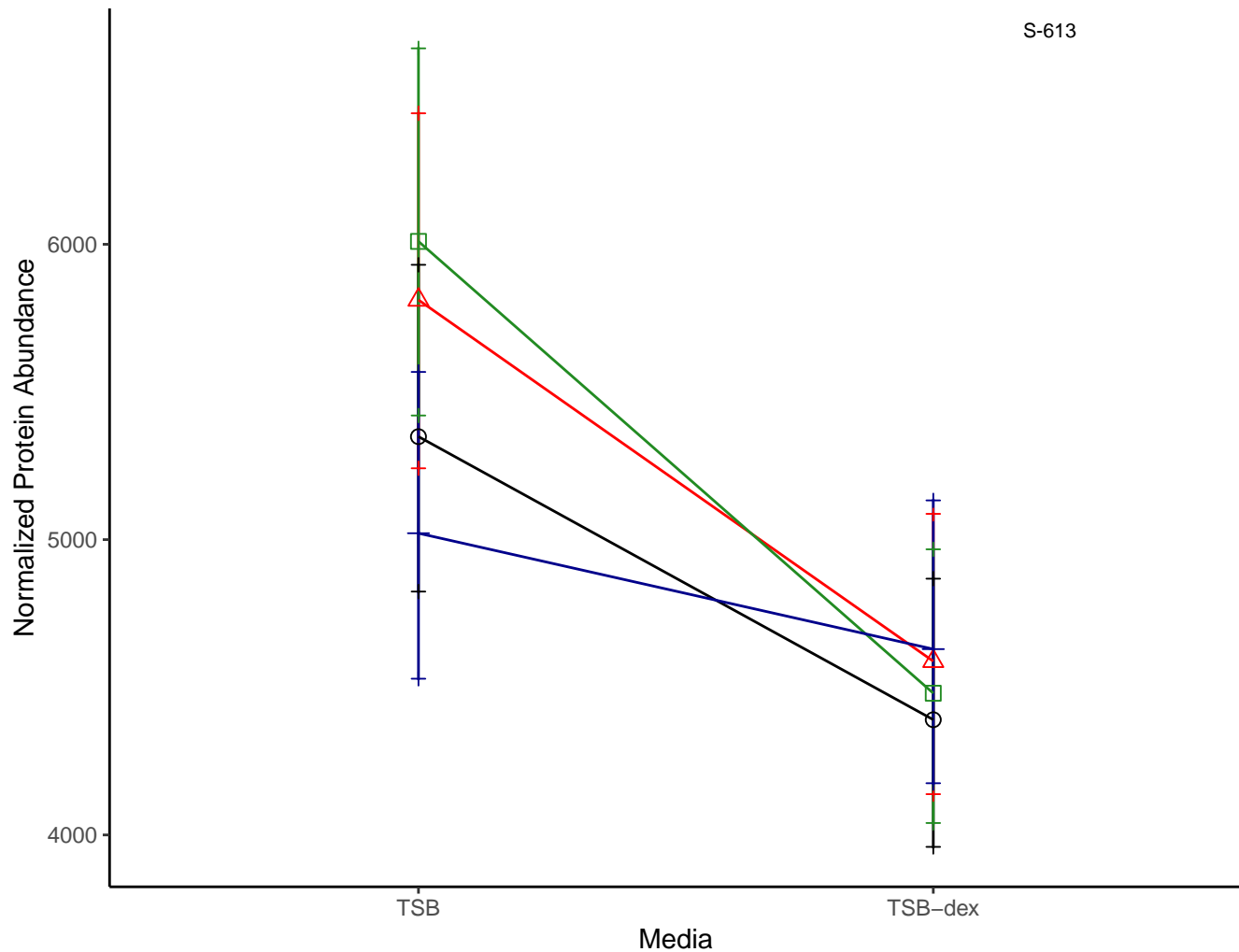
S-612



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# FEMX\_STAAM

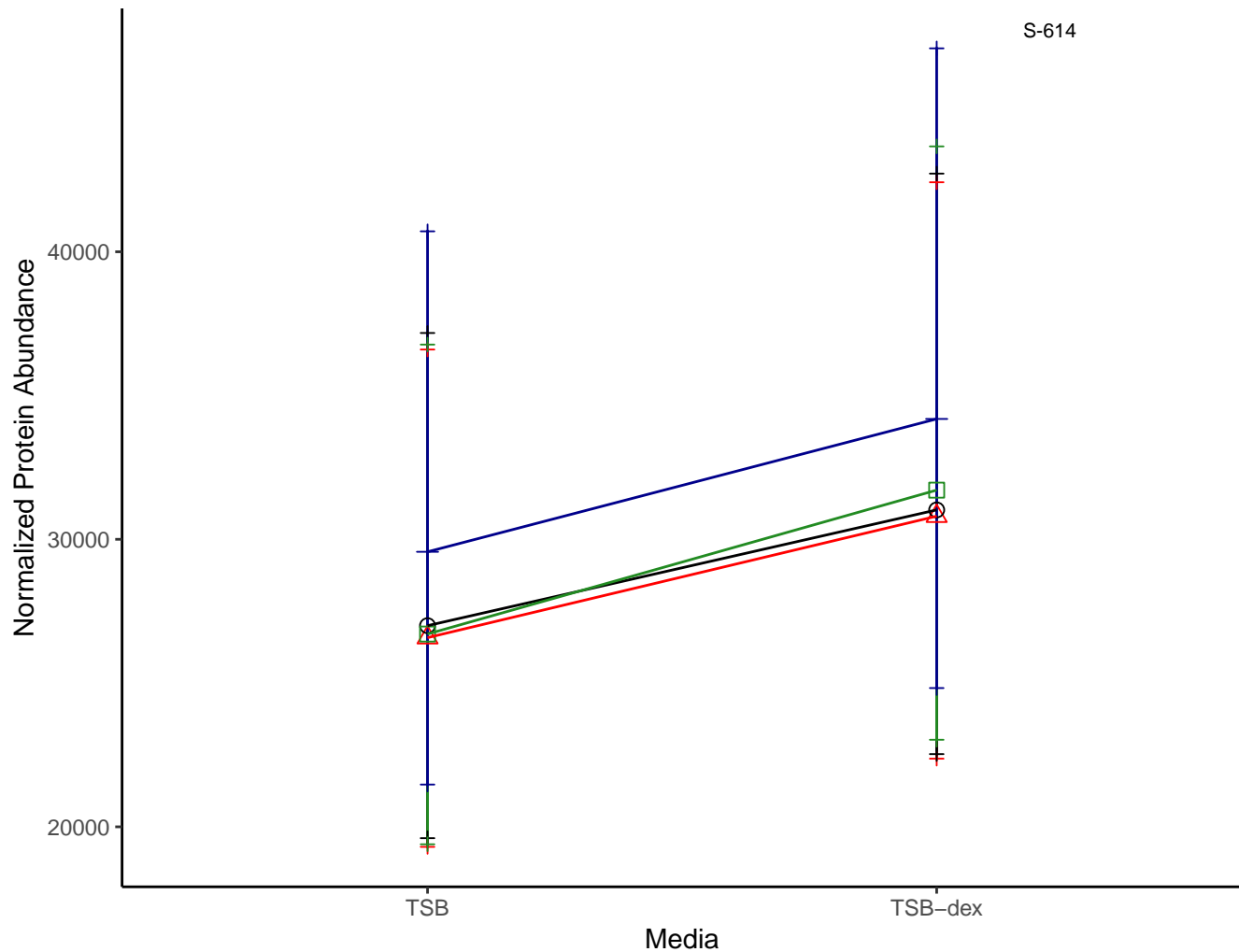
S-613



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FENR\_STAAM

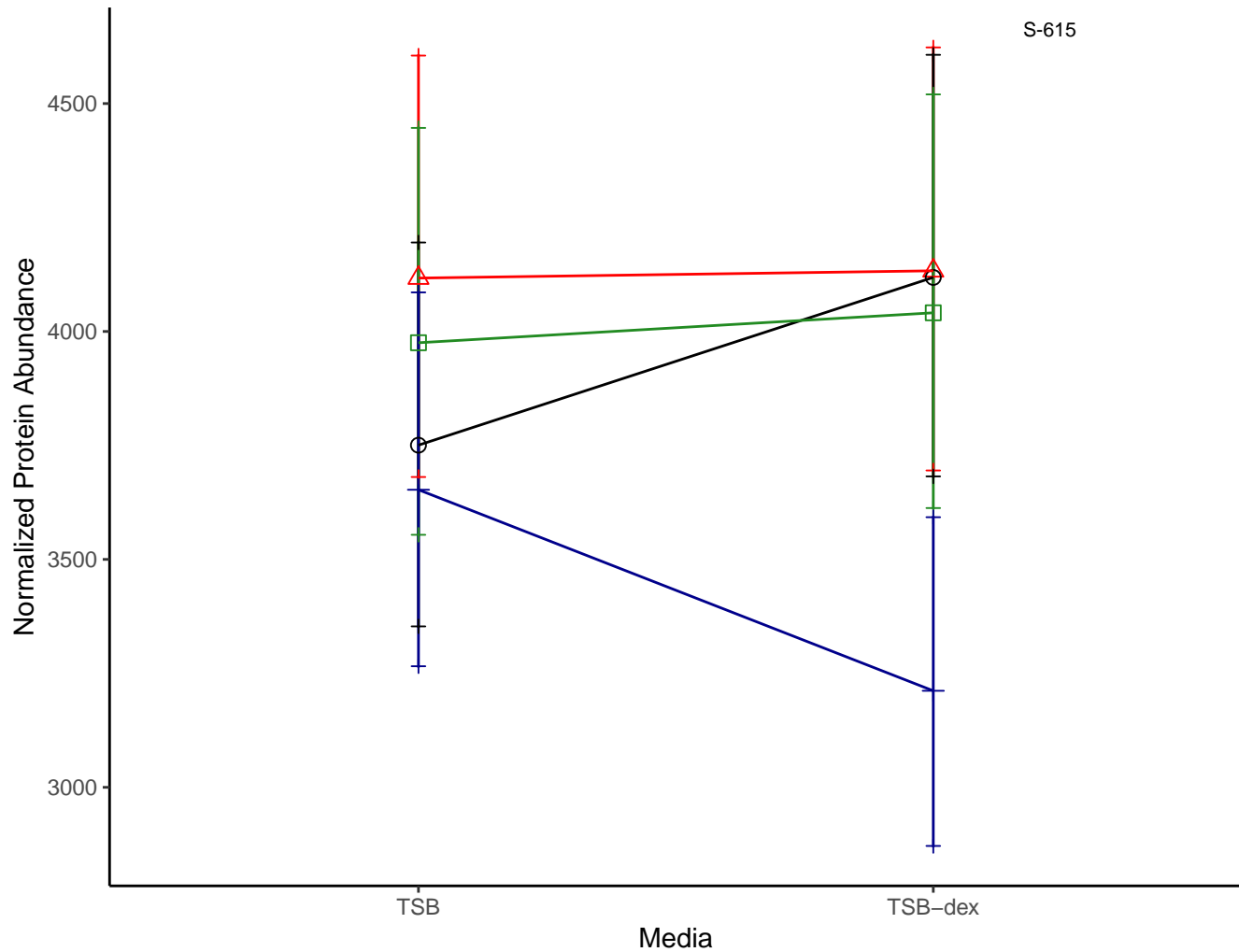
S-614



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FLIPR\_STAAM

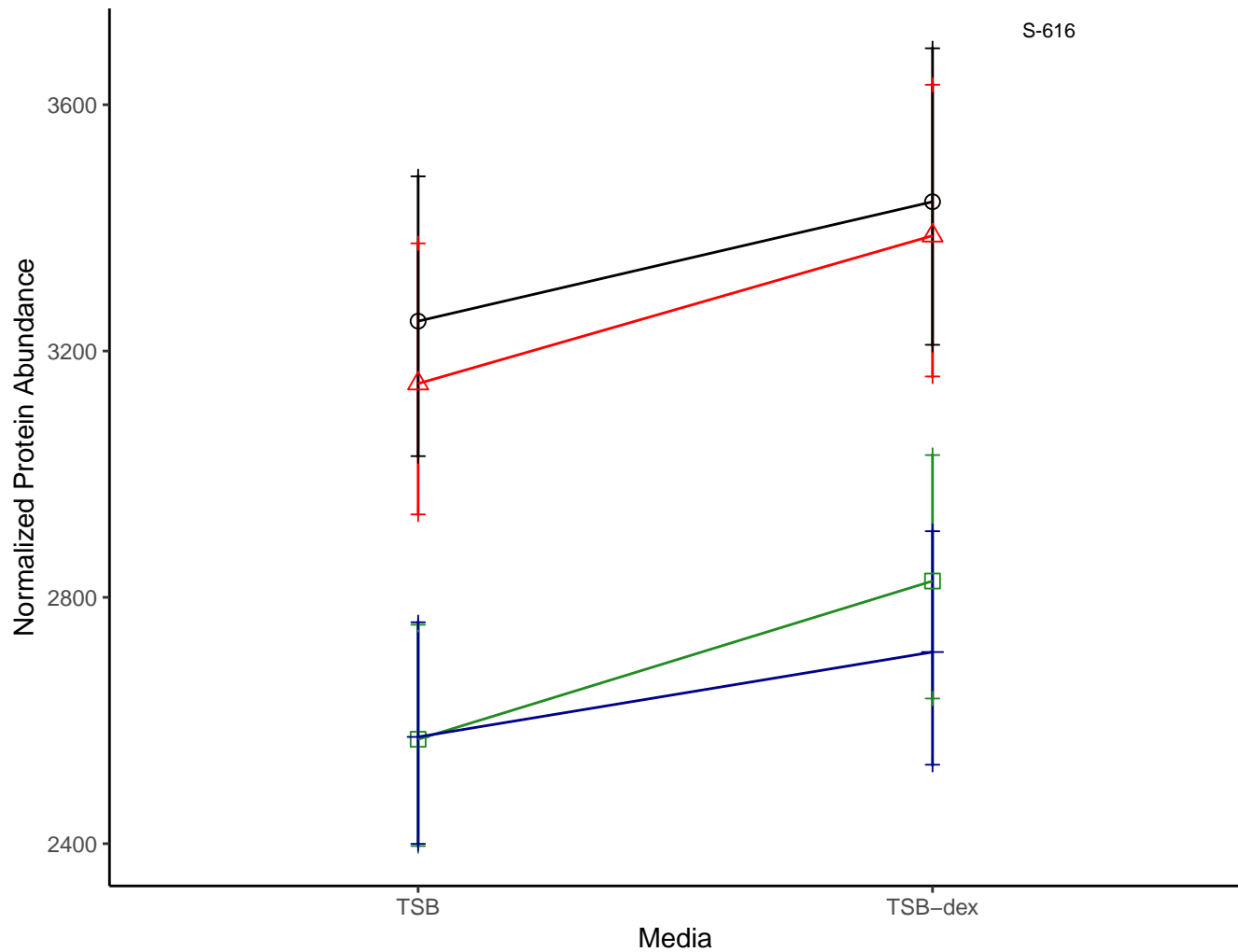
S-615



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FMT\_STAAM

S-616

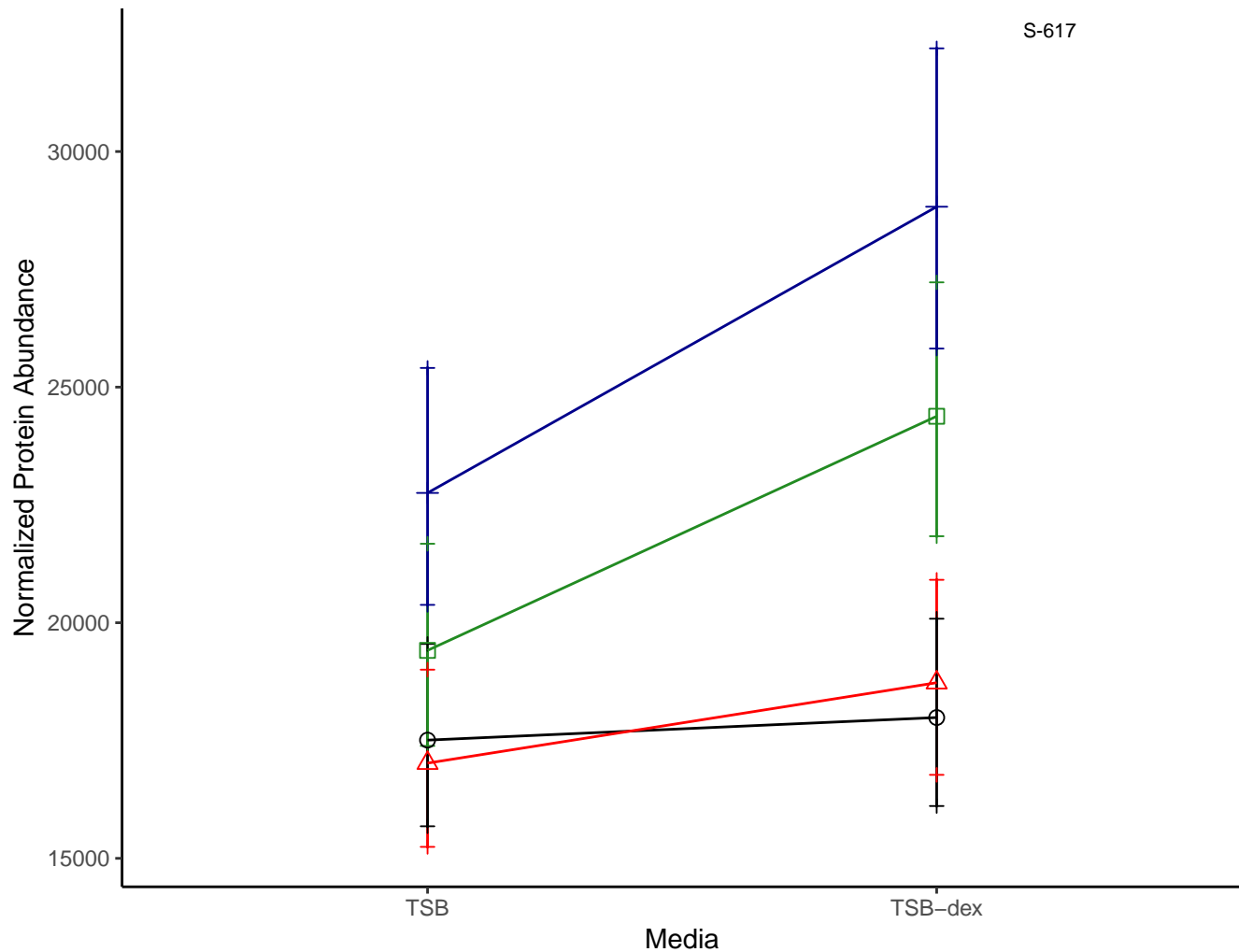


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# FMTA\_STAAM

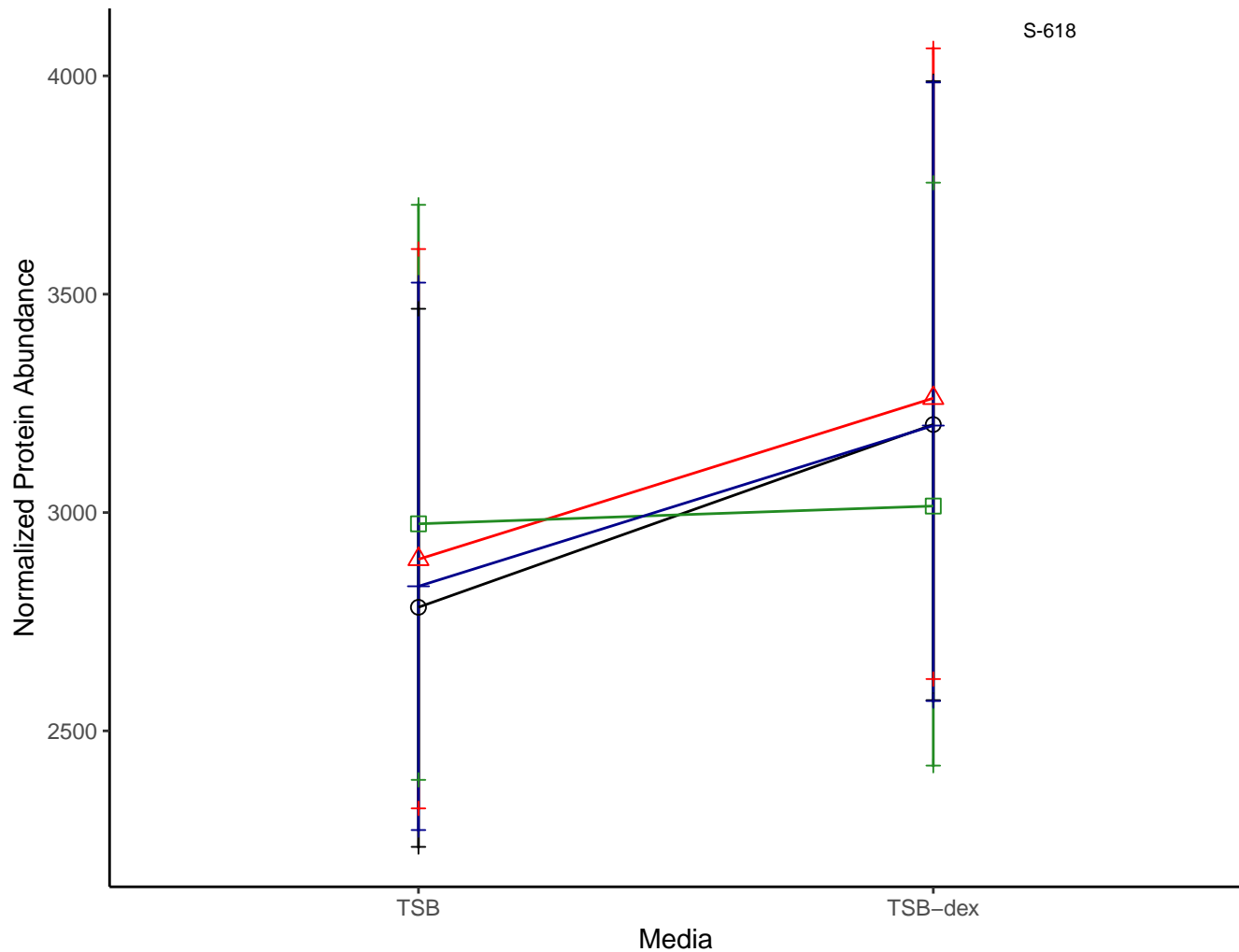
S-617



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FOLB\_STAAM

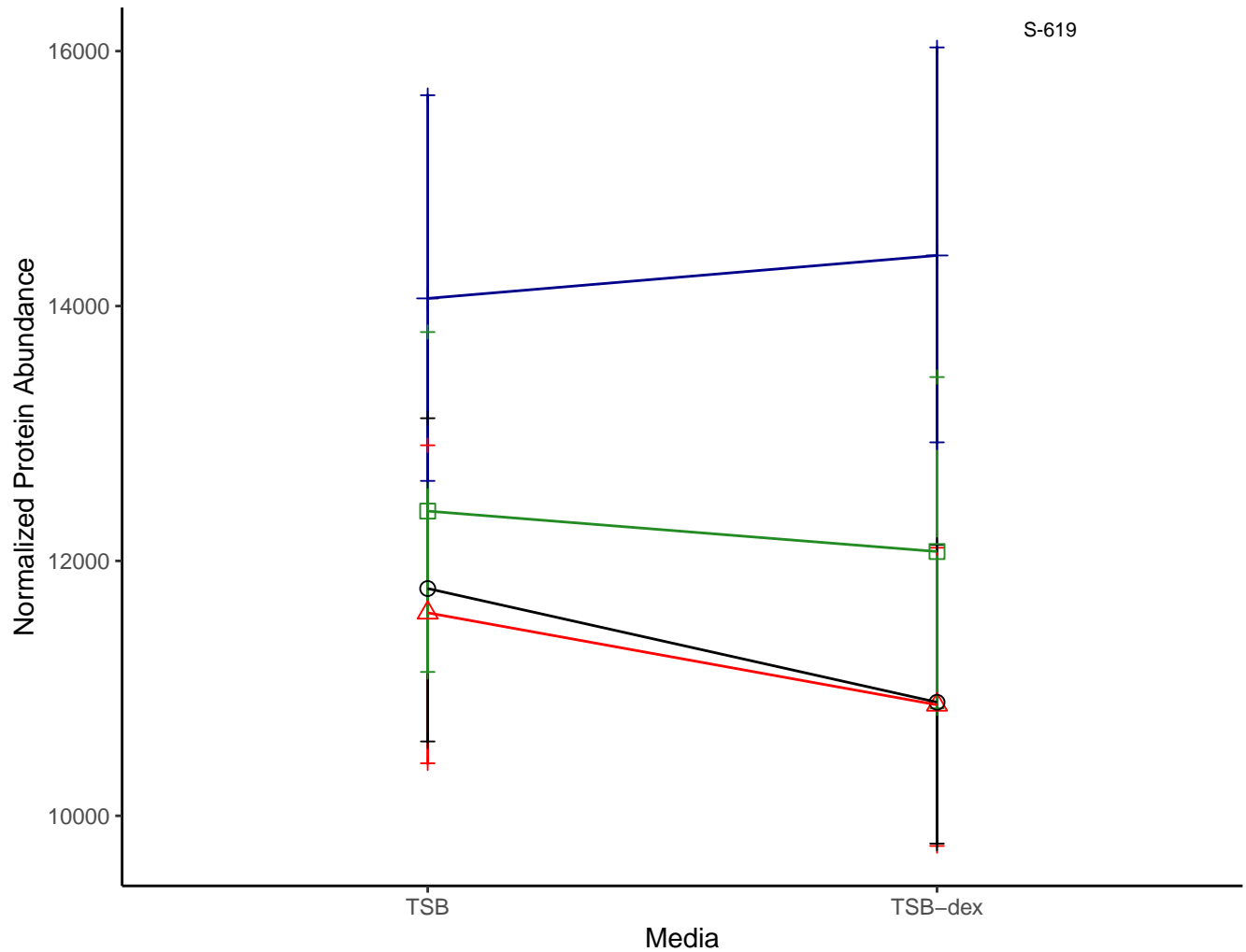
S-618



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FOLD\_STAAM

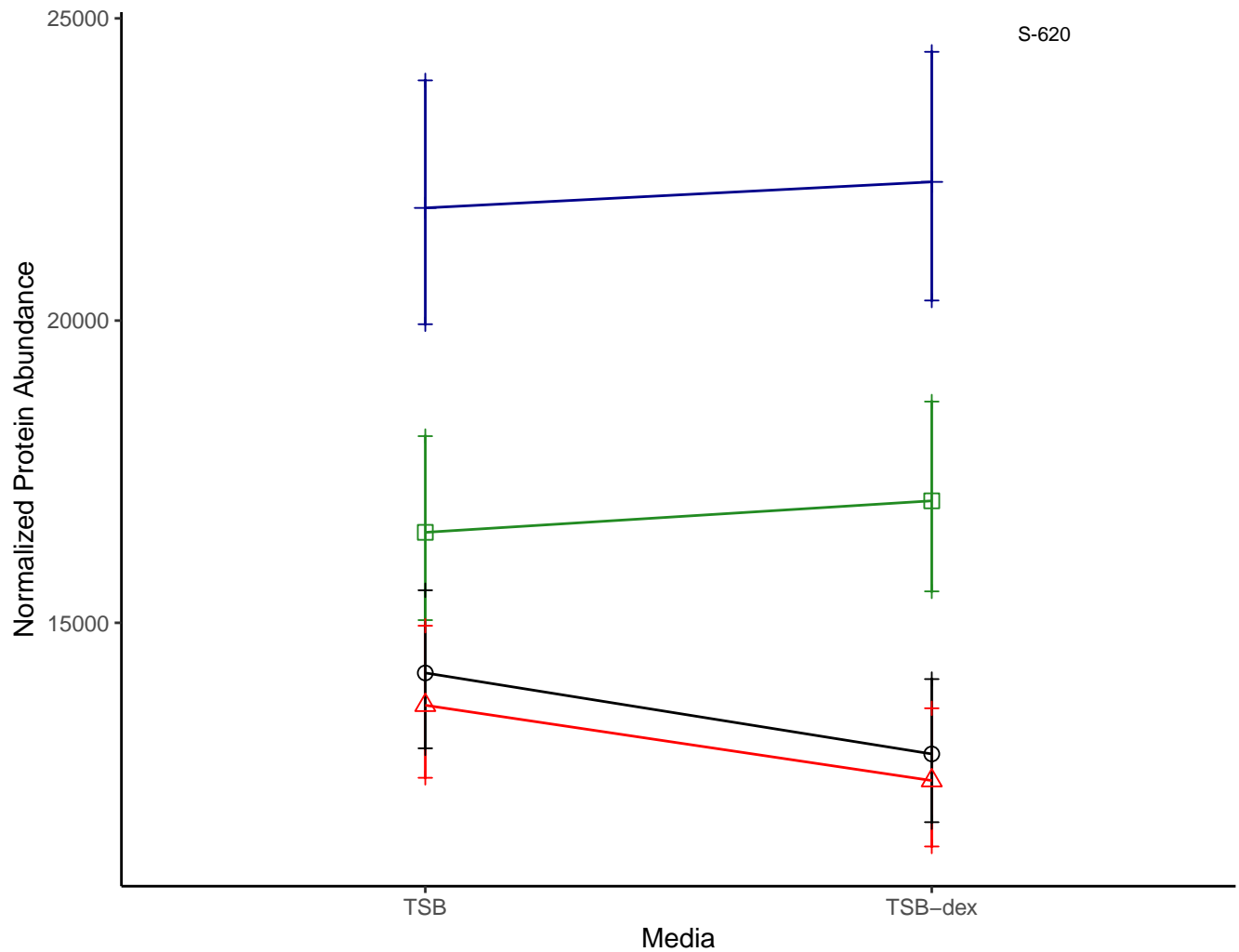
S-619



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTHS\_STAAM

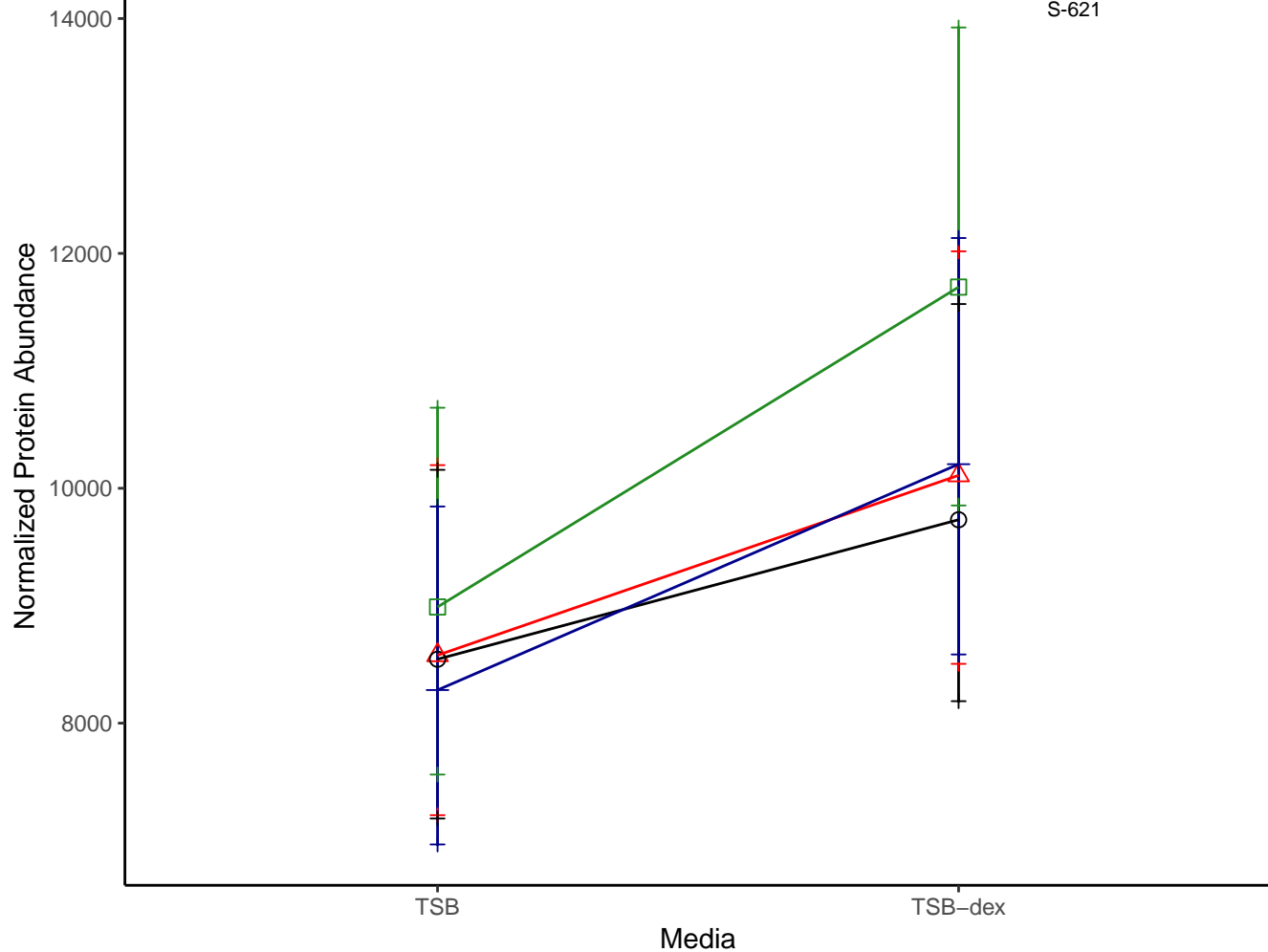
S-620



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTN\_STAAM

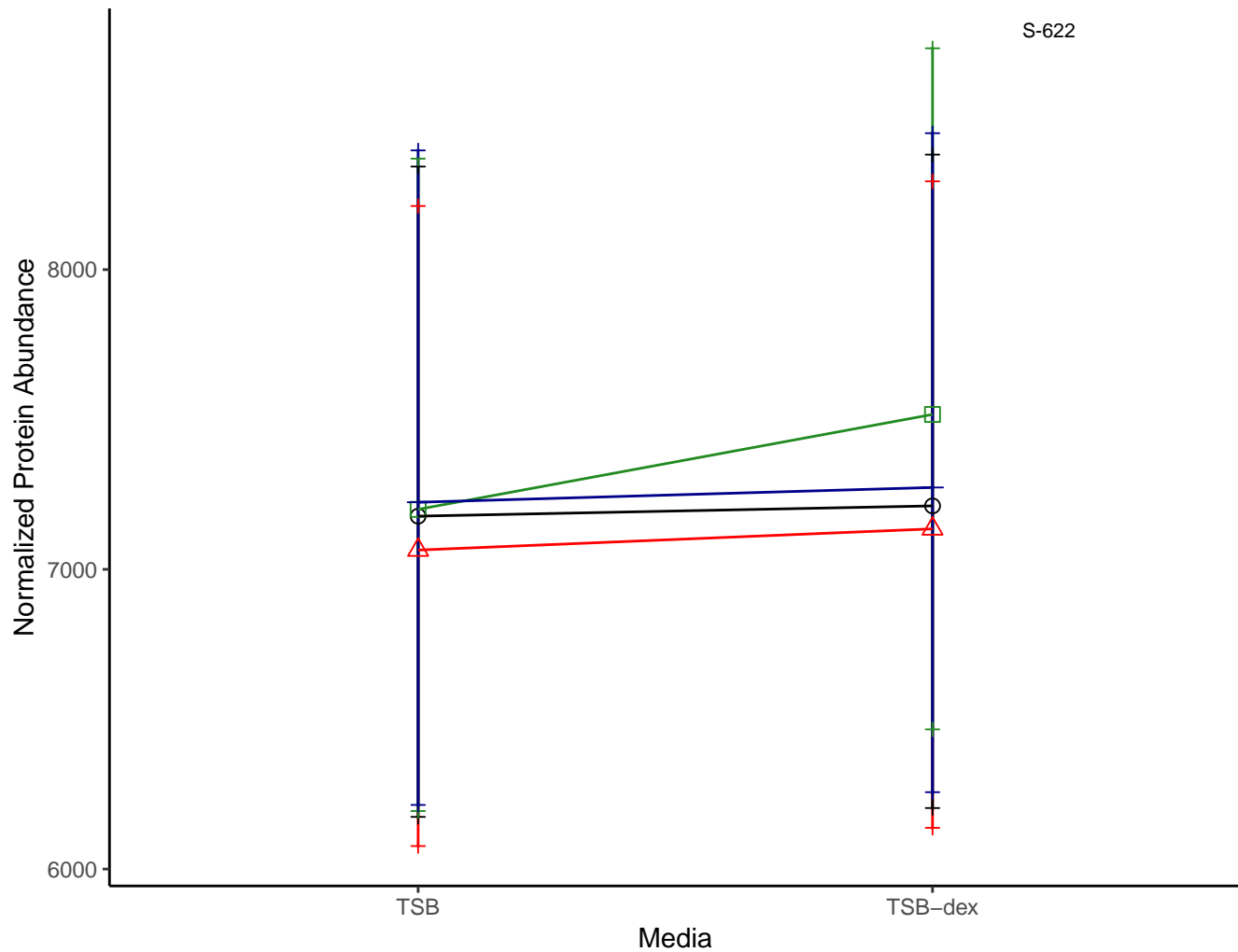
S-621



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# FTSA\_STAAM

S-622



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FTSZ\_STAAM

S-623

Normalized Protein Abundance

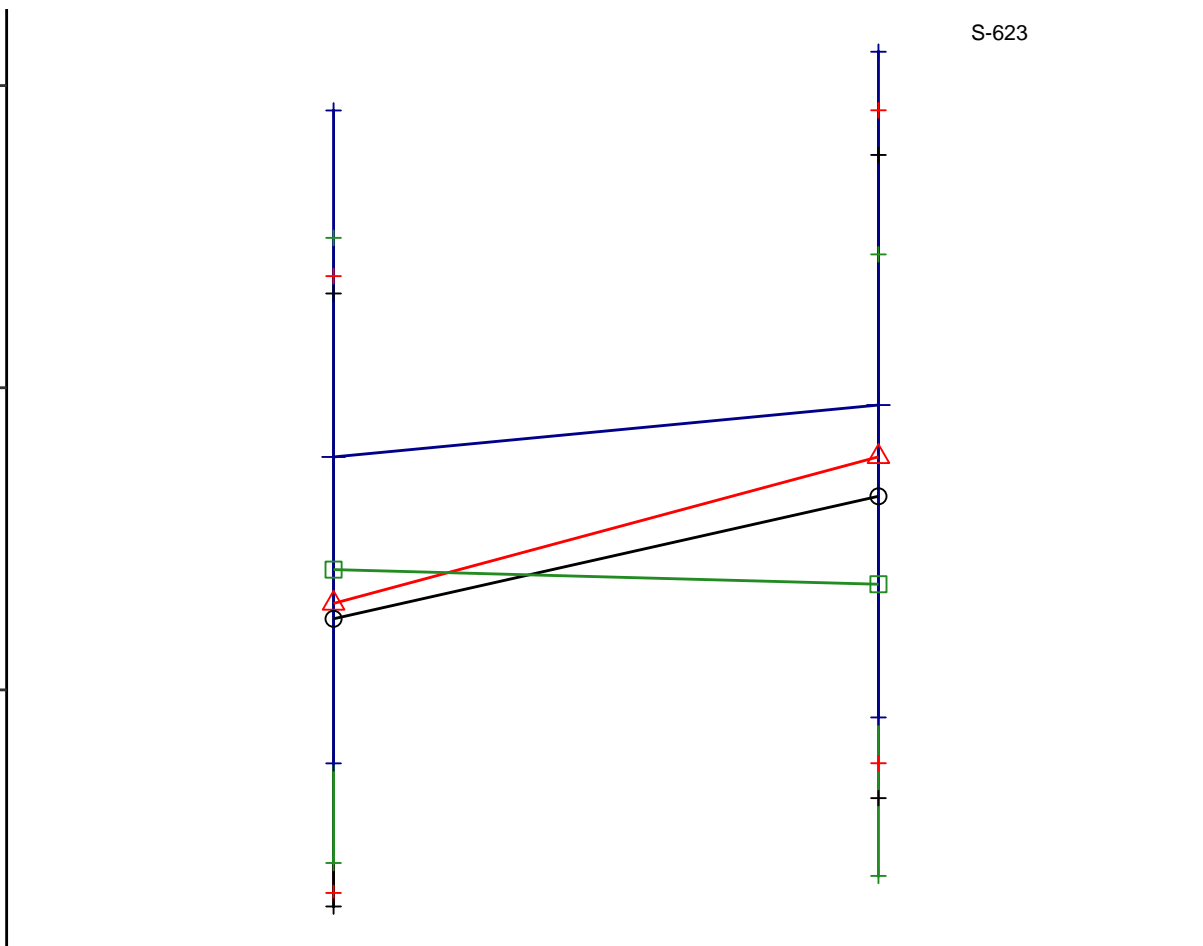
20000  
18000  
16000

TSB

Media

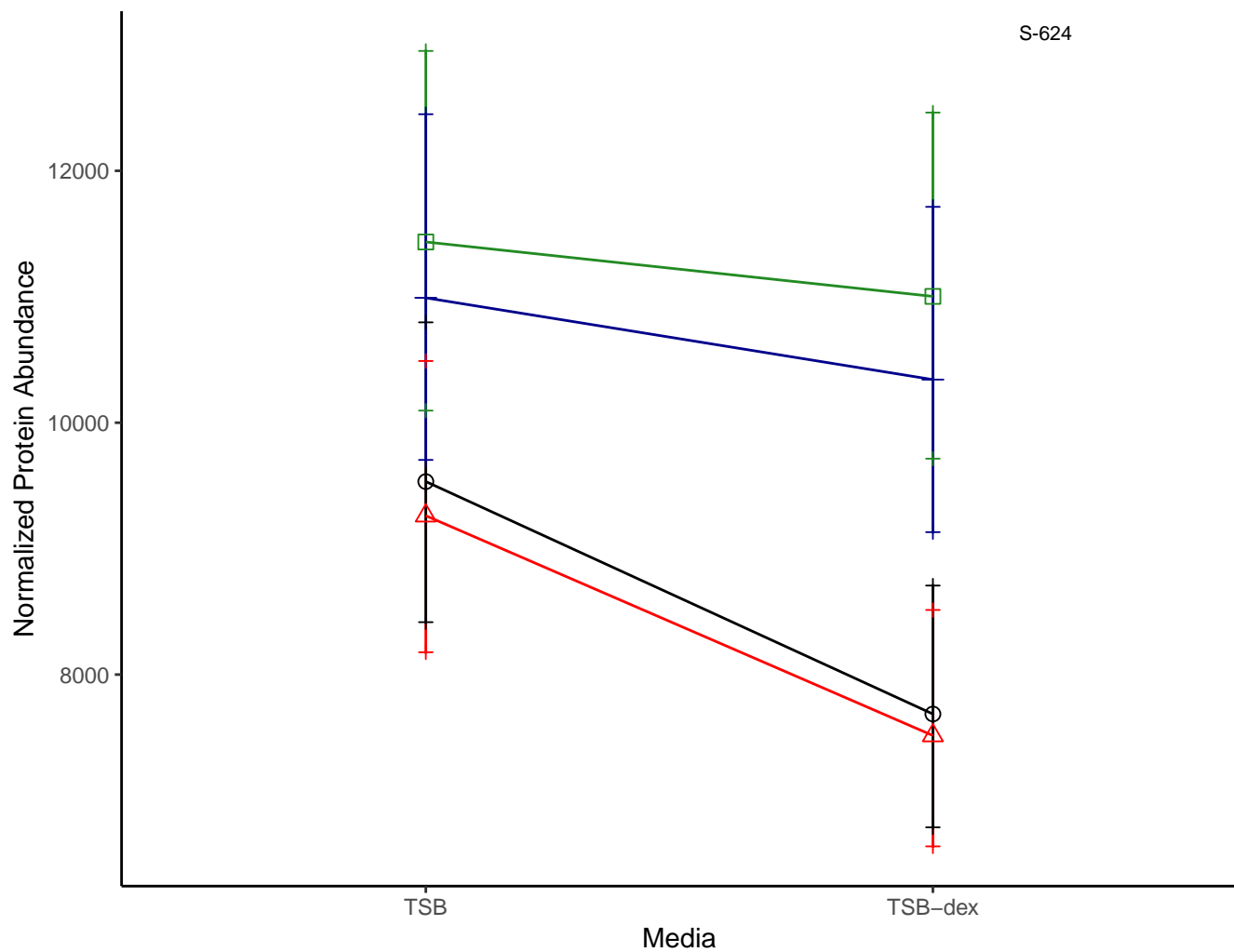
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# FUMC\_STAAM

S-624

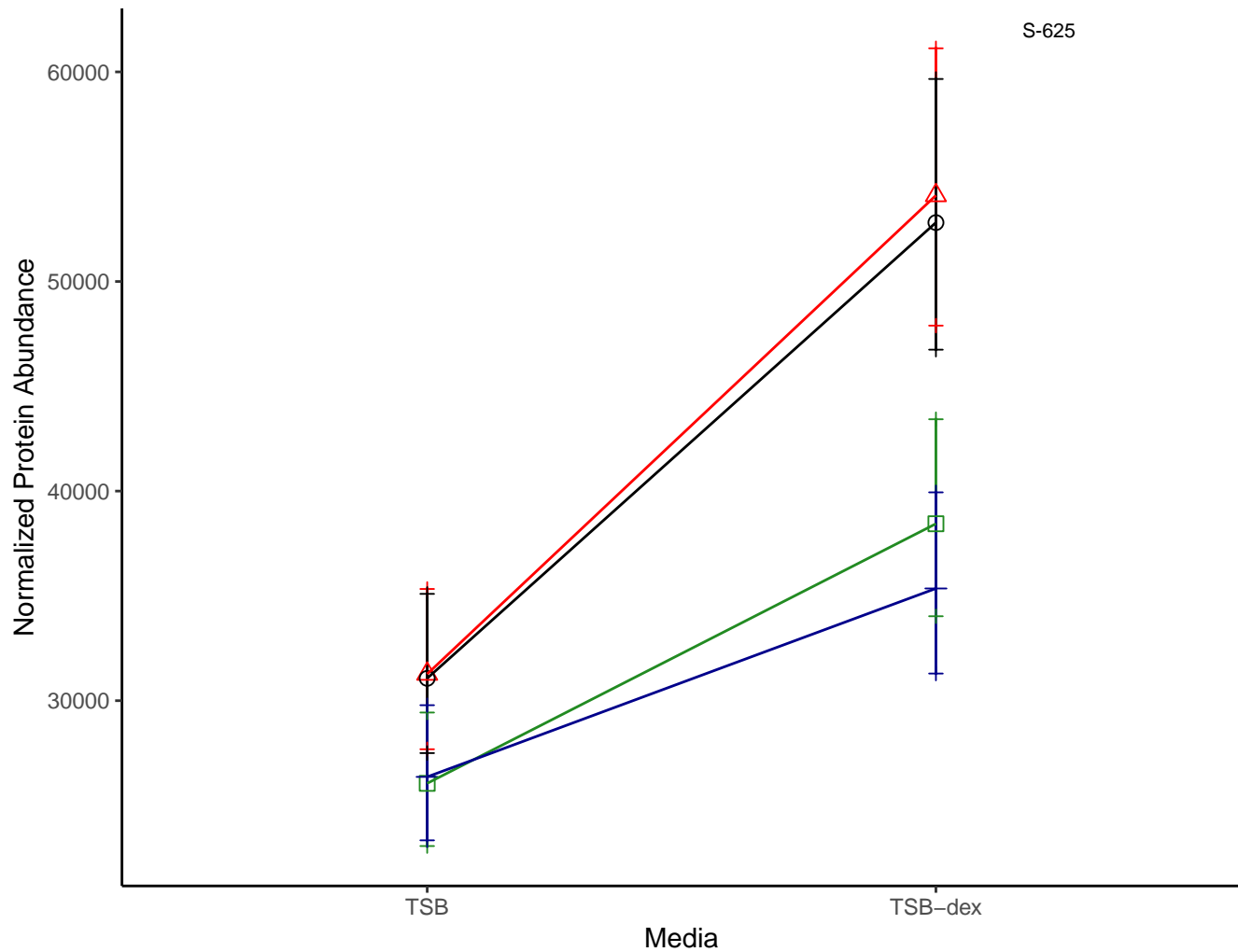


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# G3P1\_STAAM

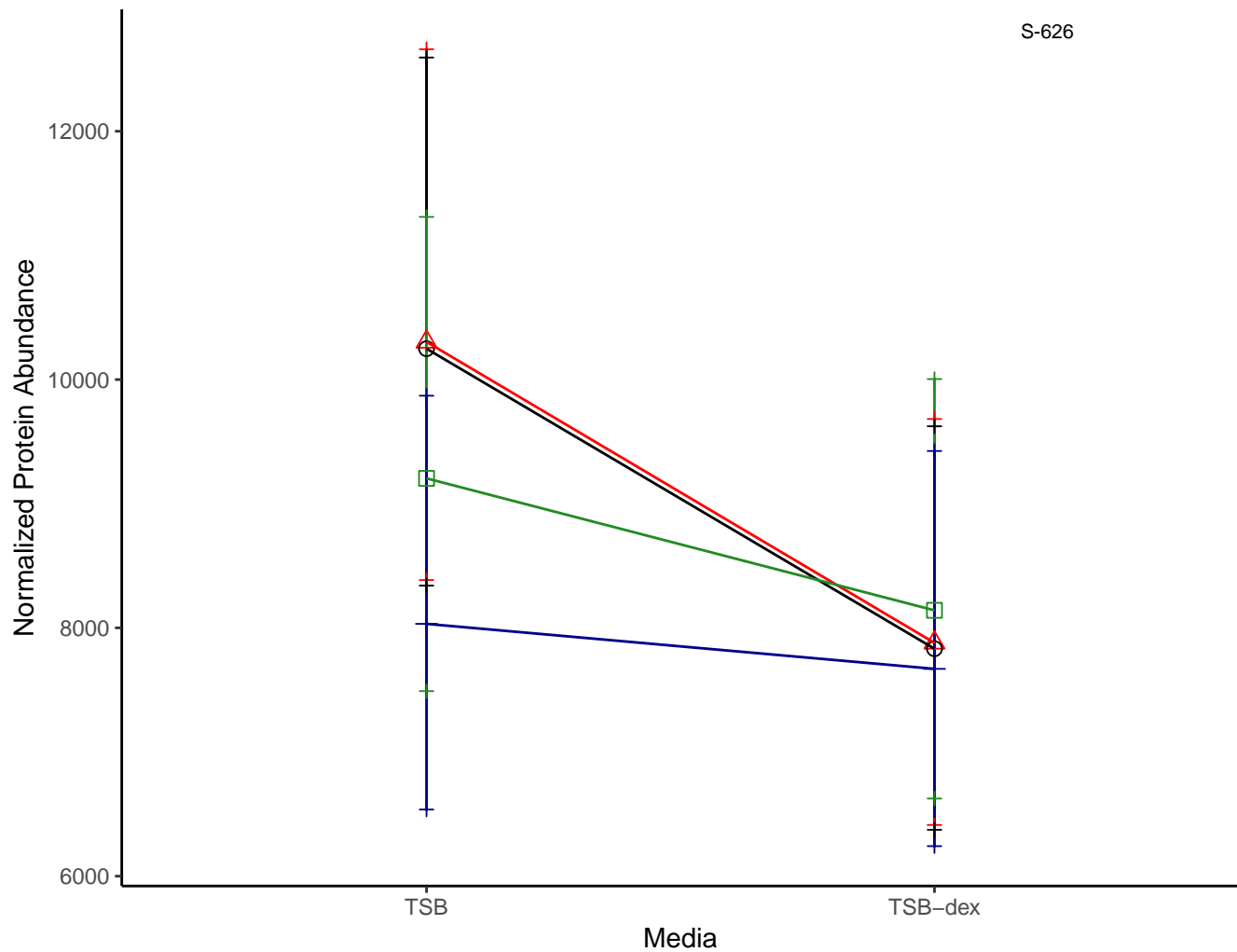
S-625



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# G3P2\_STAAM

S-626



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# G6PI\_STAAM

S-627

Normalized Protein Abundance

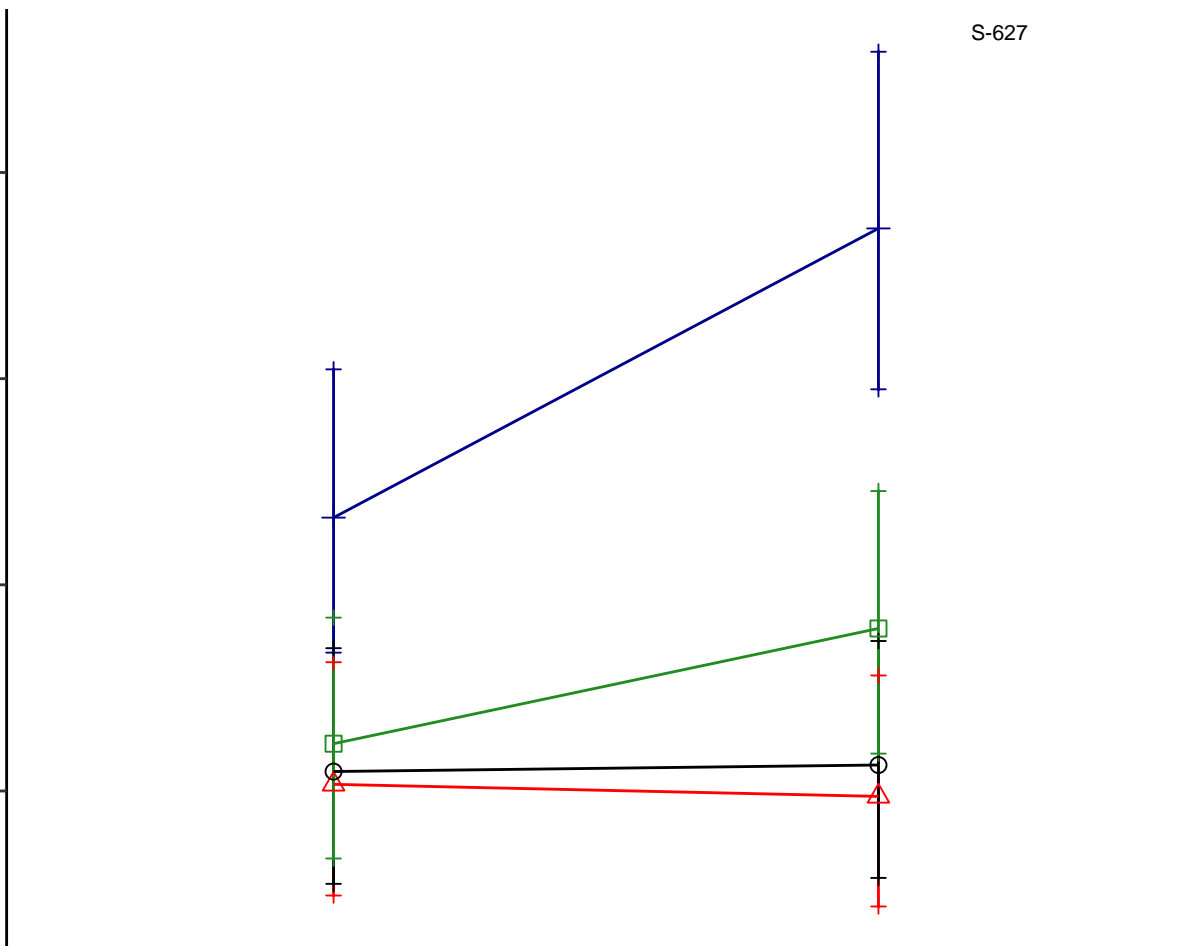
22500  
20000  
17500  
15000

TSB

Media

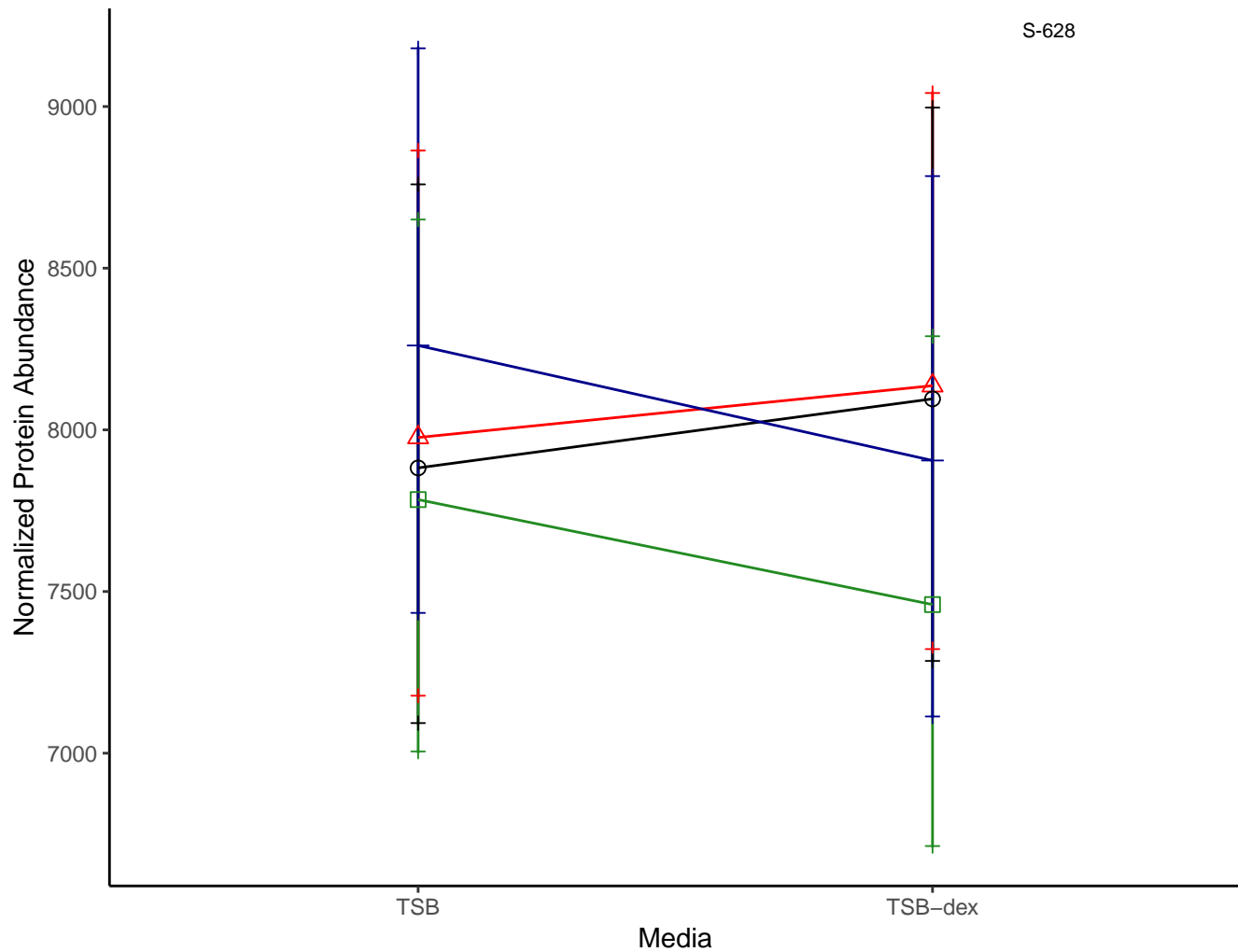
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GATA\_STAAM

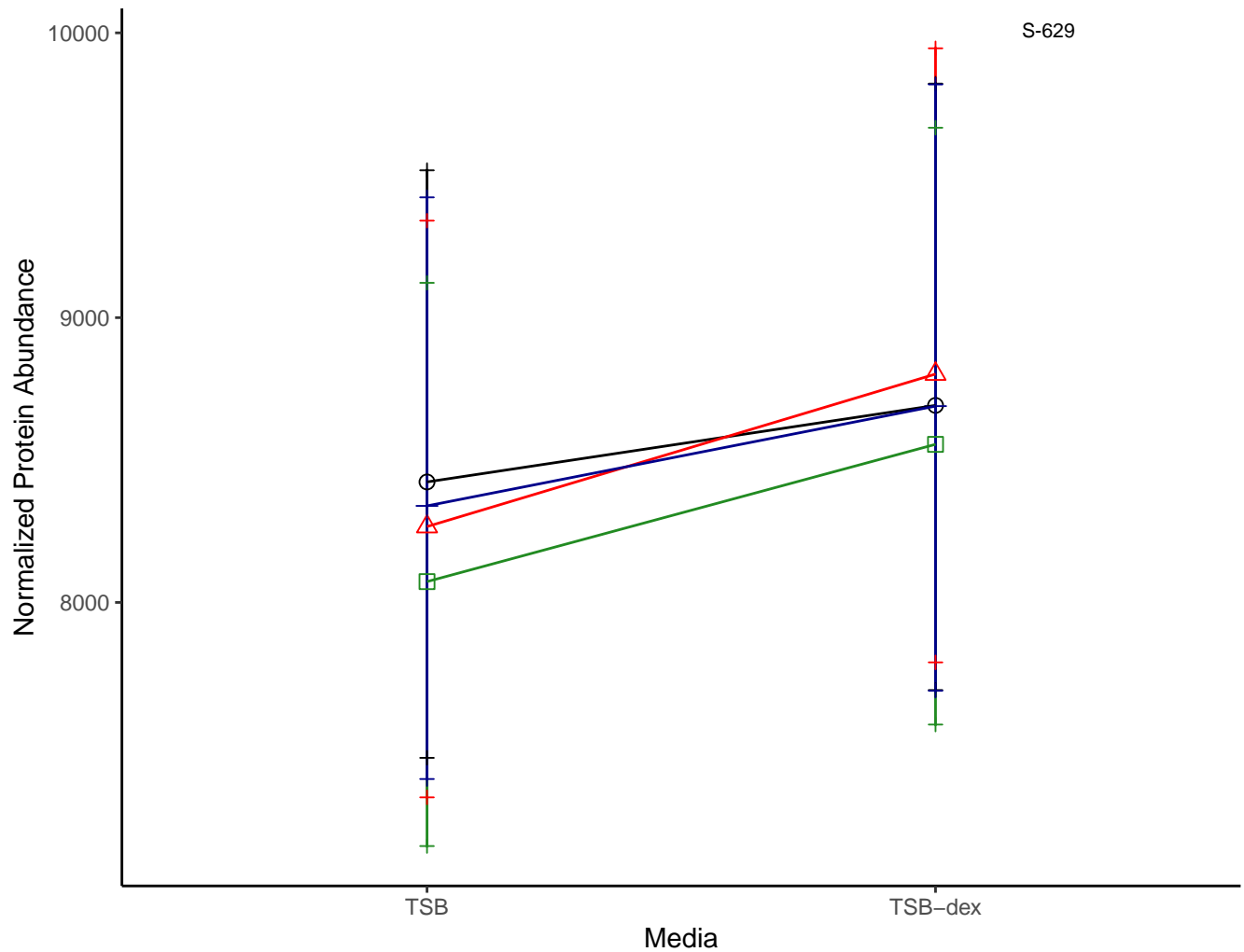
S-628



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GATB\_STAAM

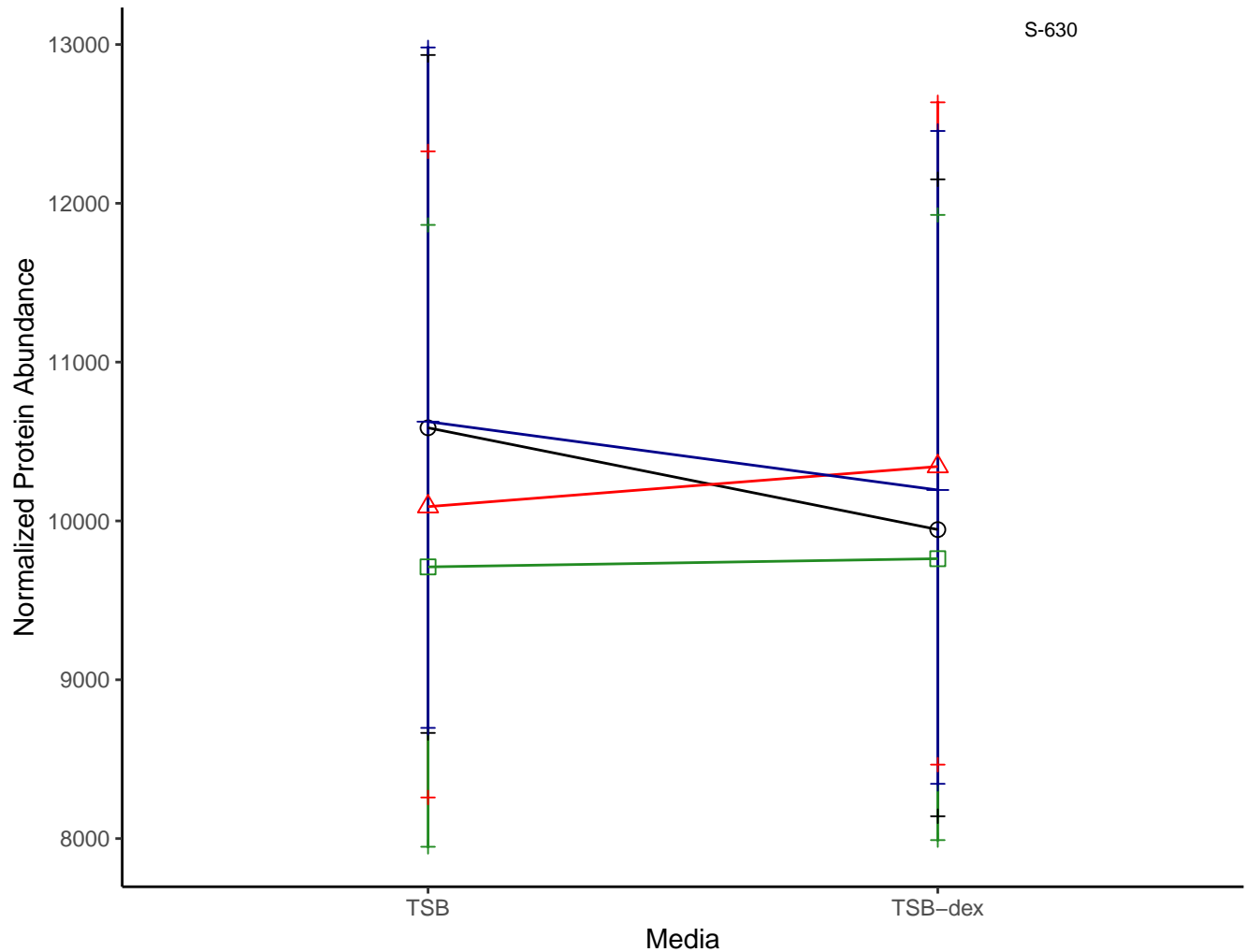
S-629



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATC\_STAAM

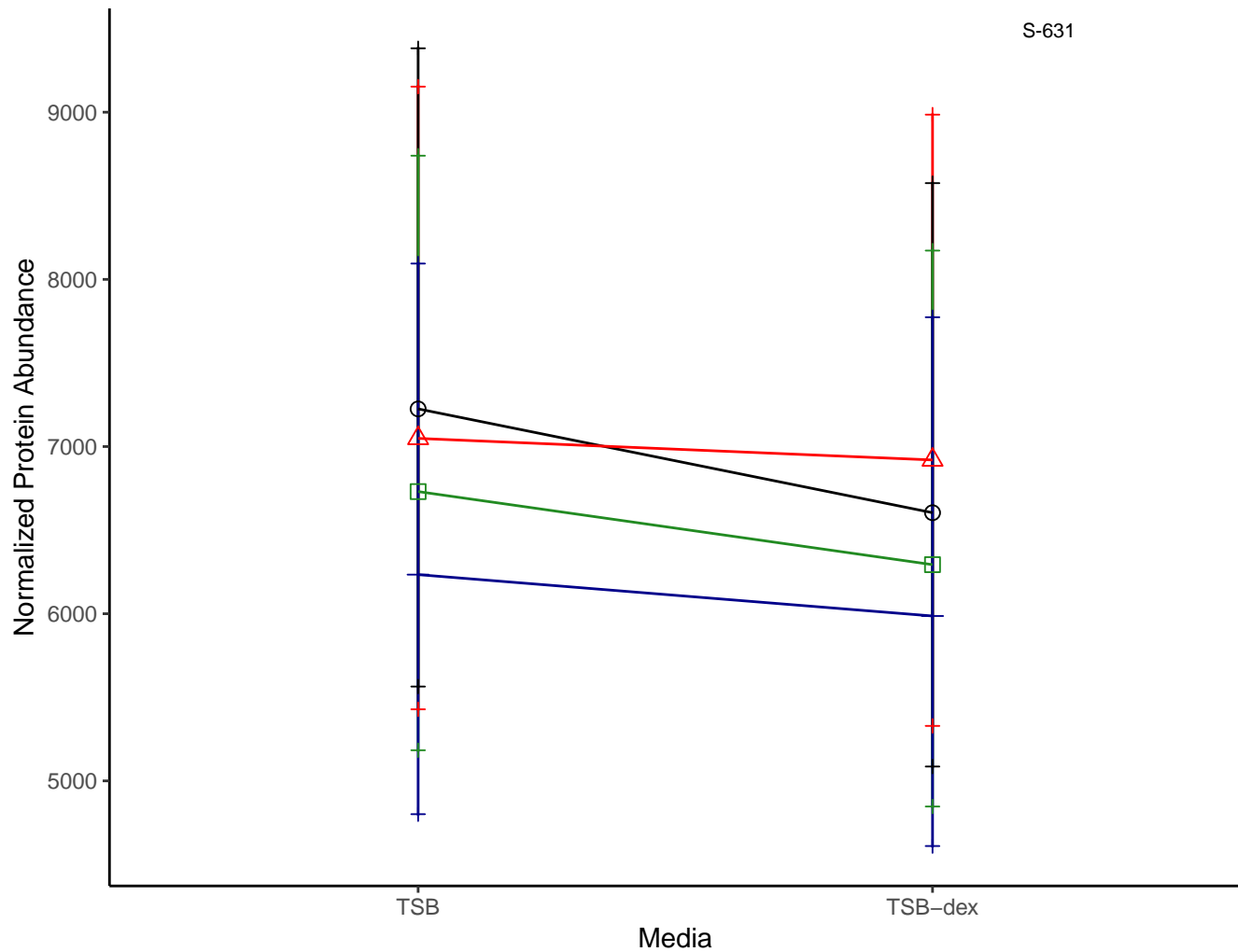
S-630



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GCH4\_STAAM

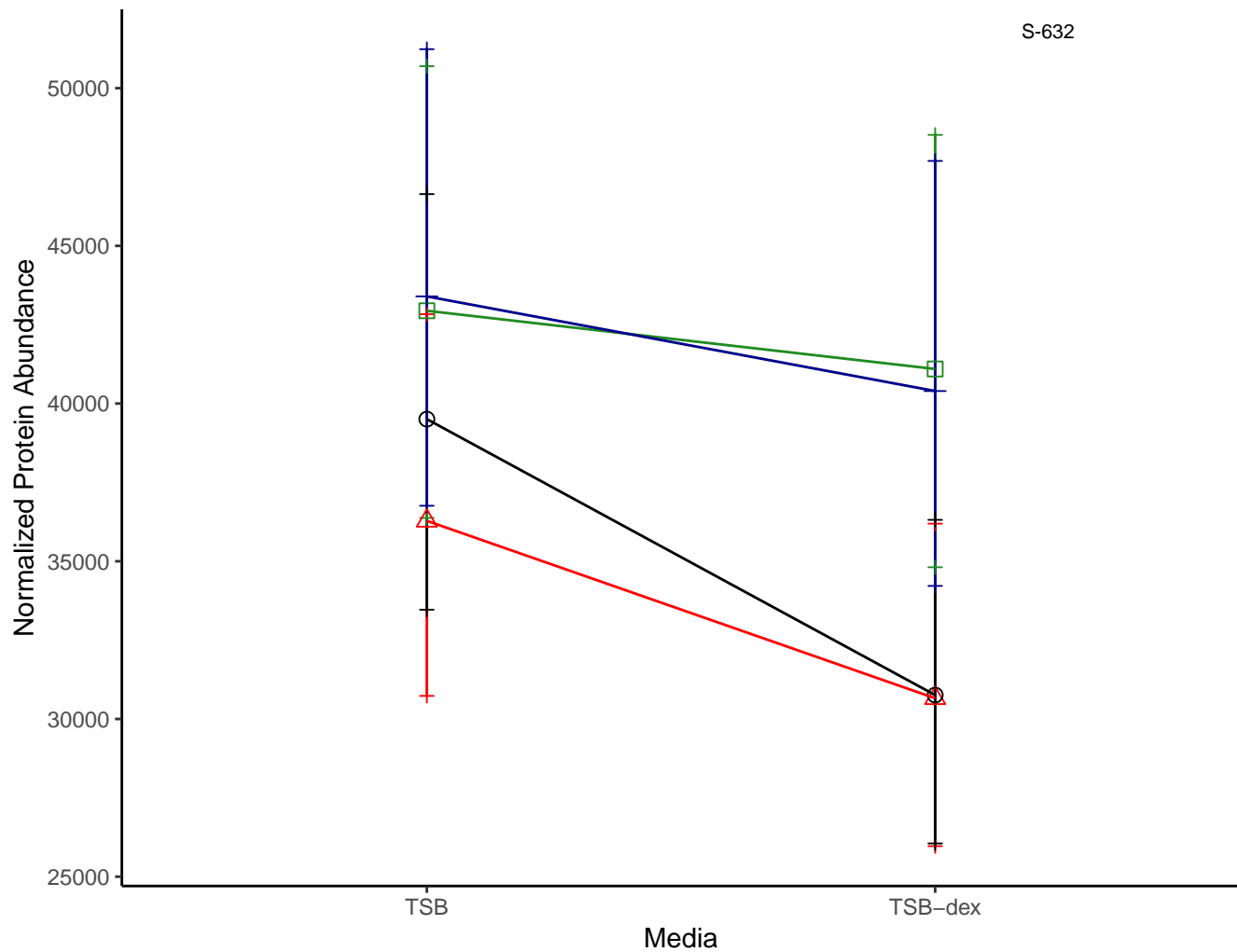
S-631



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GCSH\_STAAM

S-632

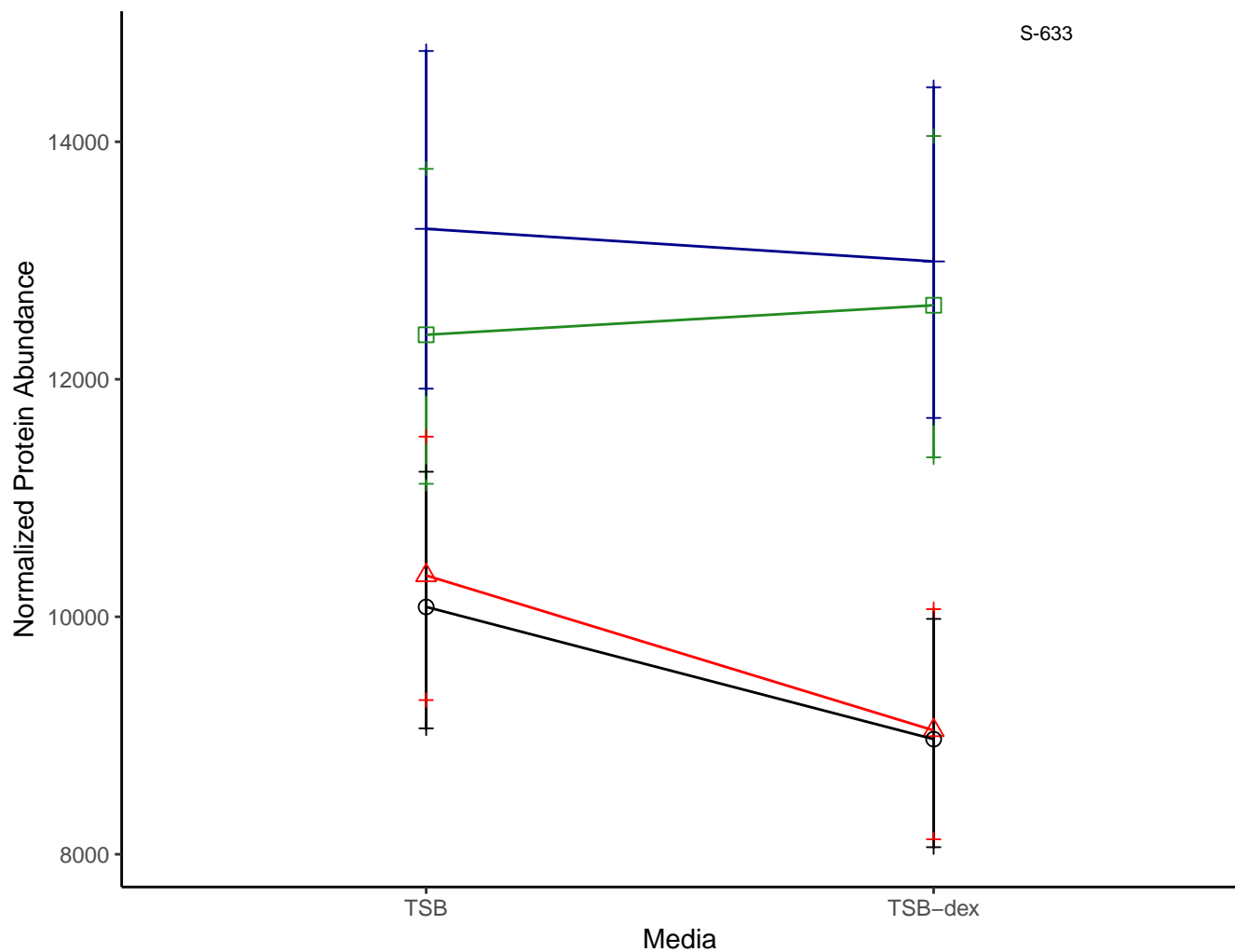


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GCSPA\_STAAM

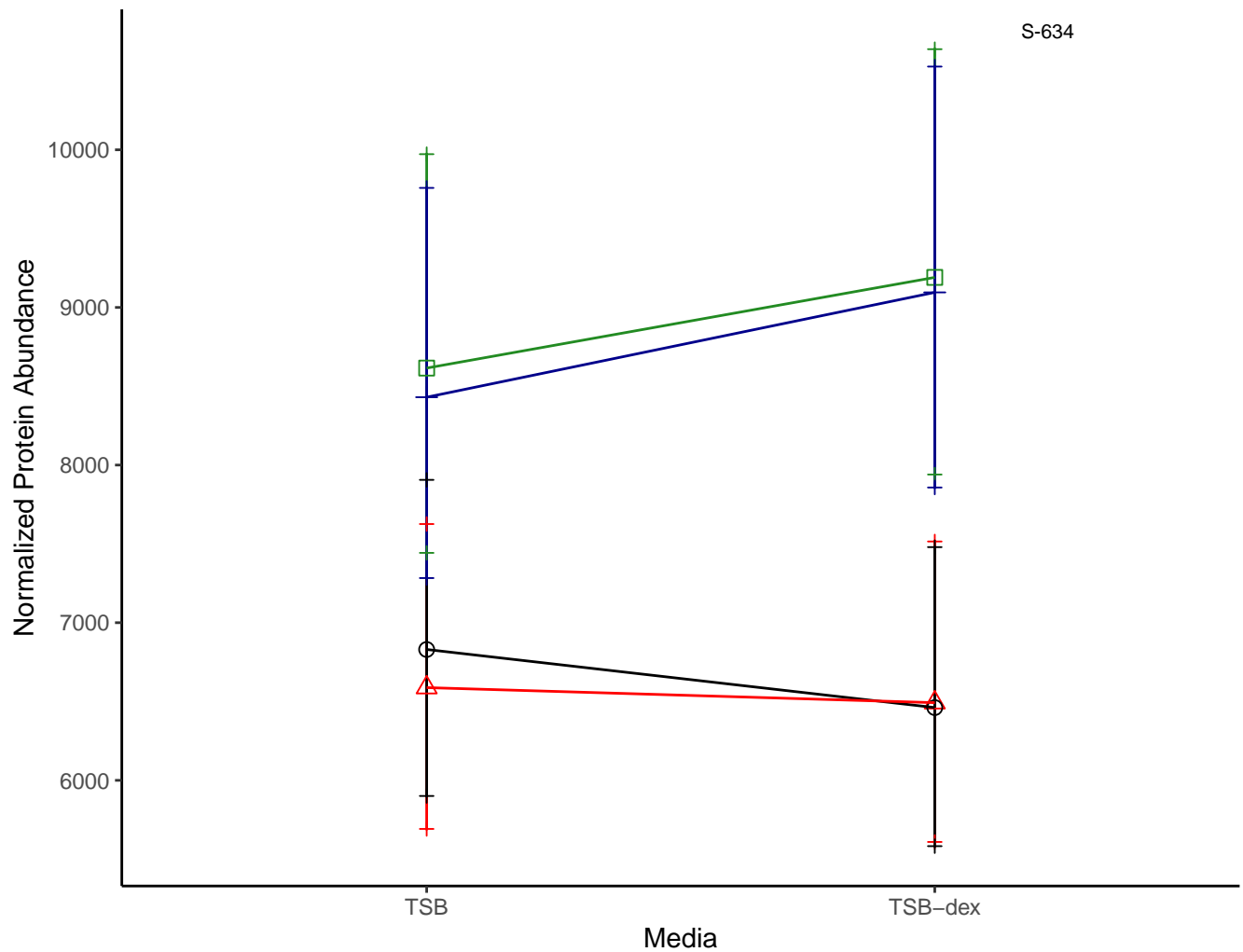
S-633



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GCSPB\_STAAM

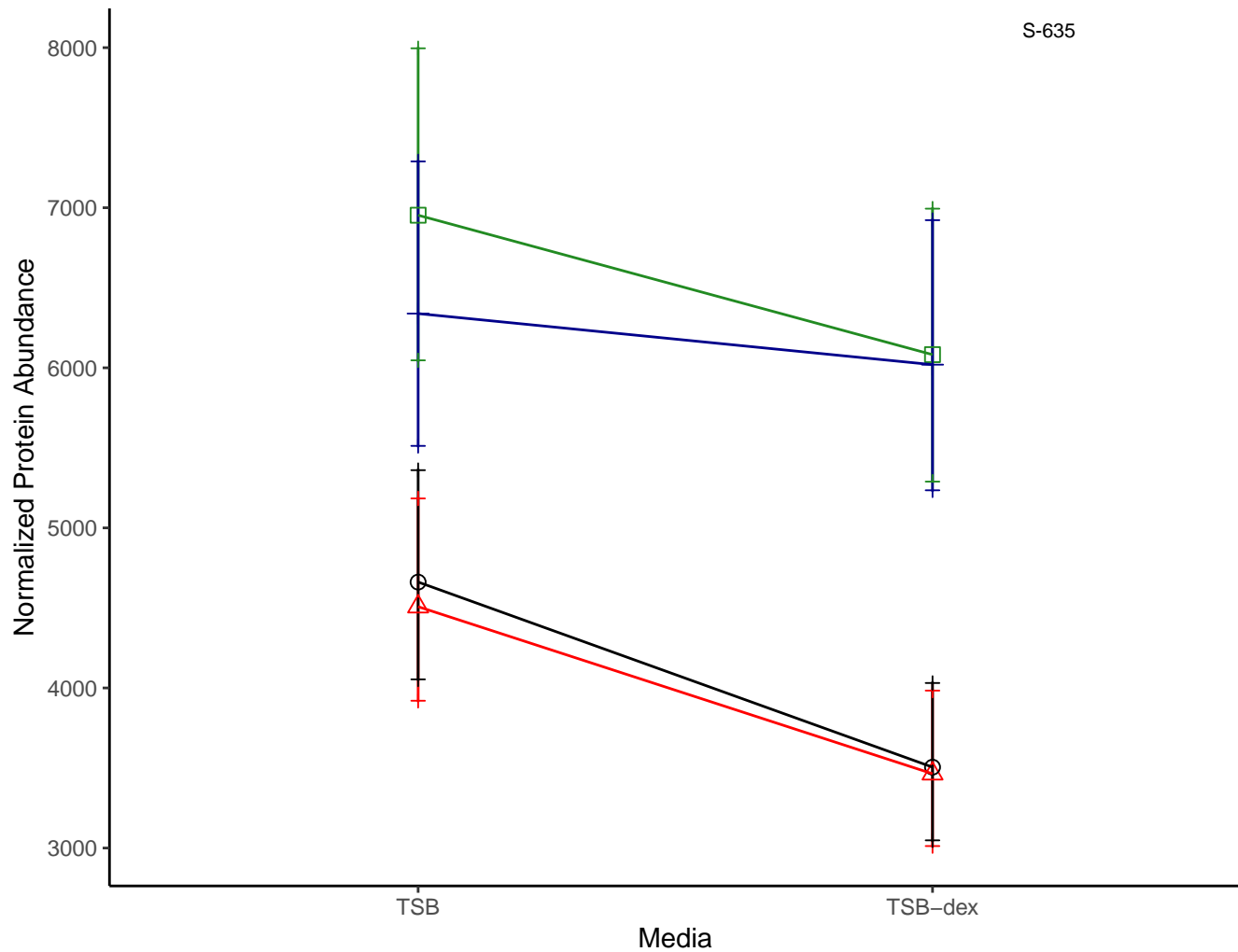
S-634



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GCST\_STAAM

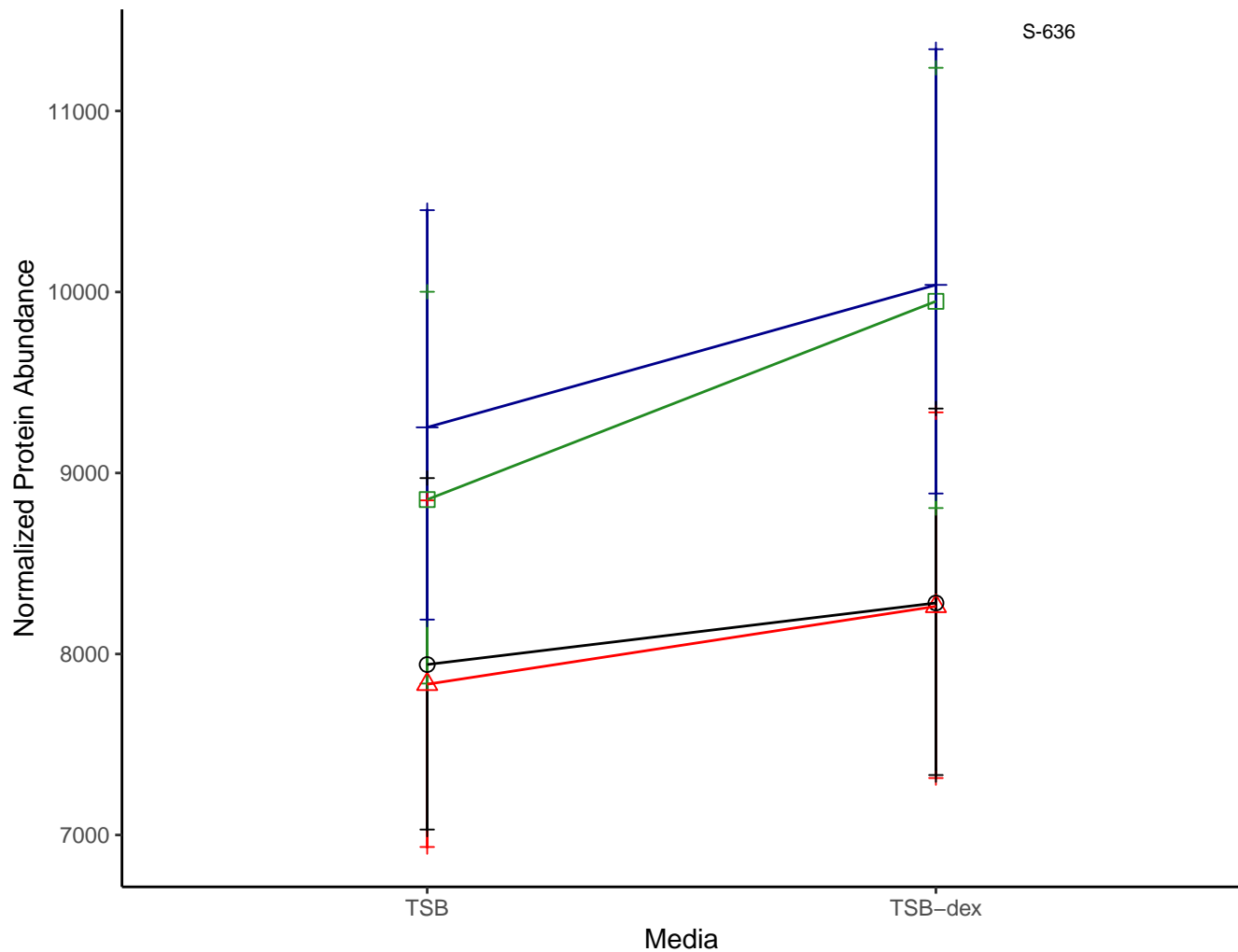
S-635



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLMM\_STAAM

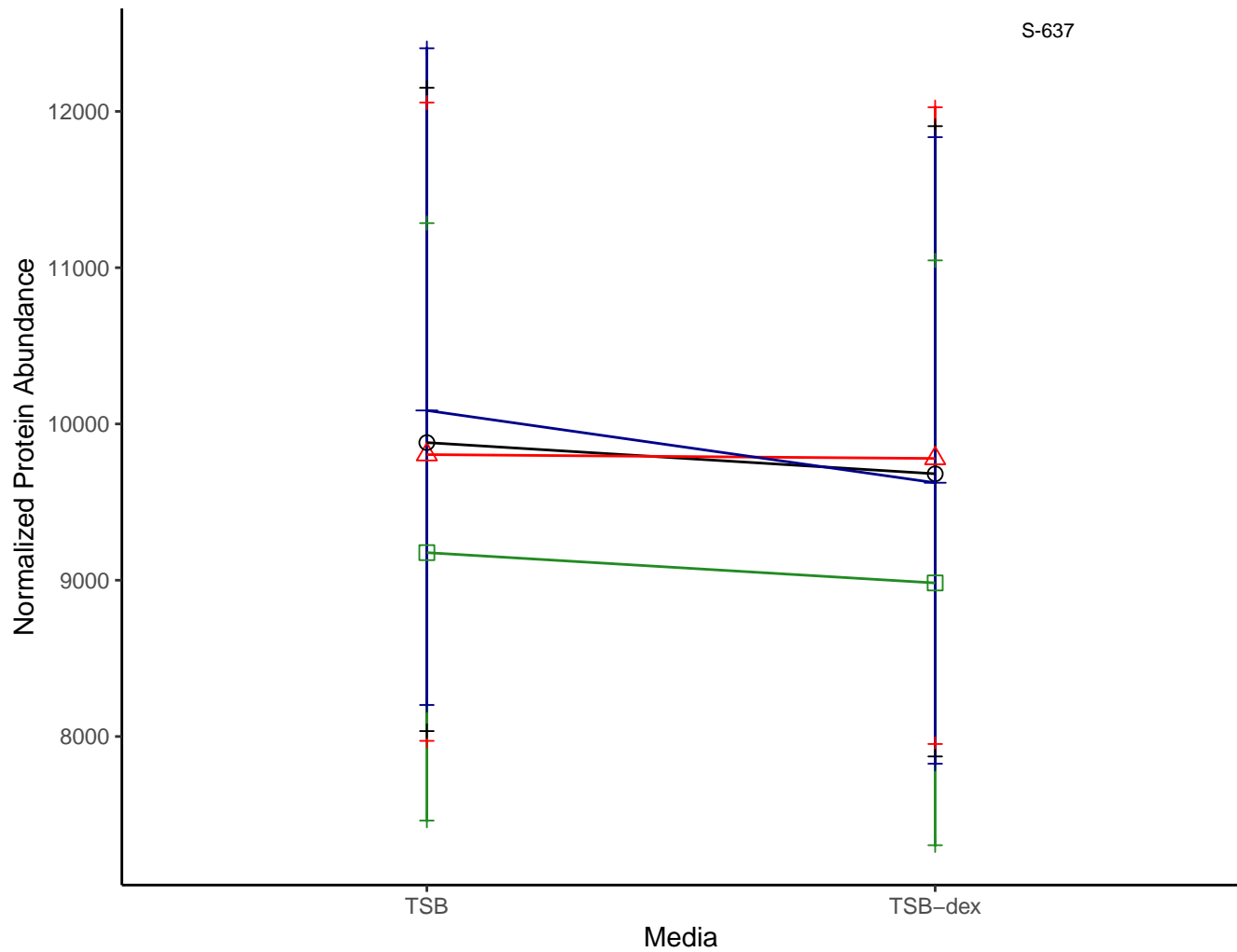
S-636



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLMS\_STAAM

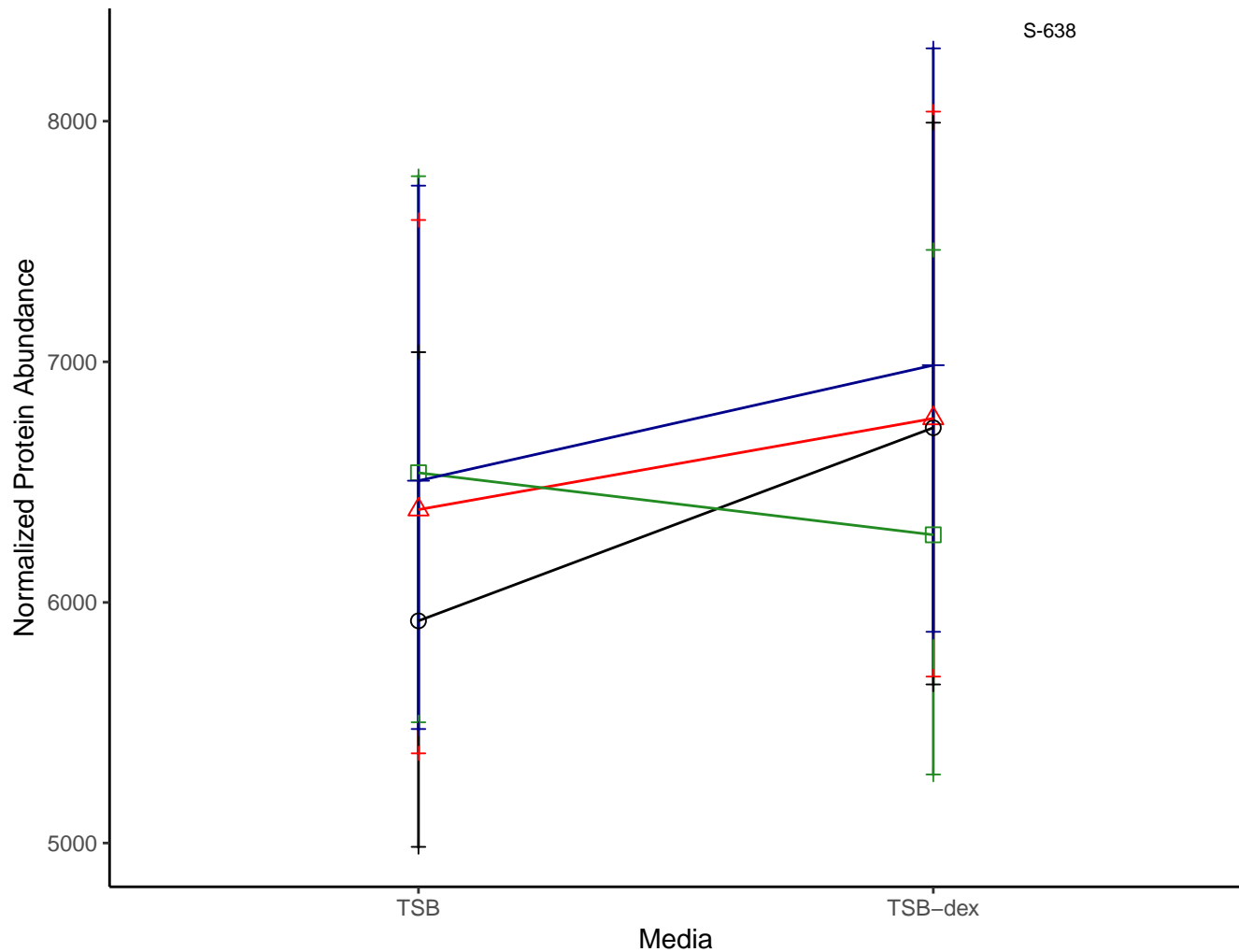
S-637



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GLMU\_STAAM

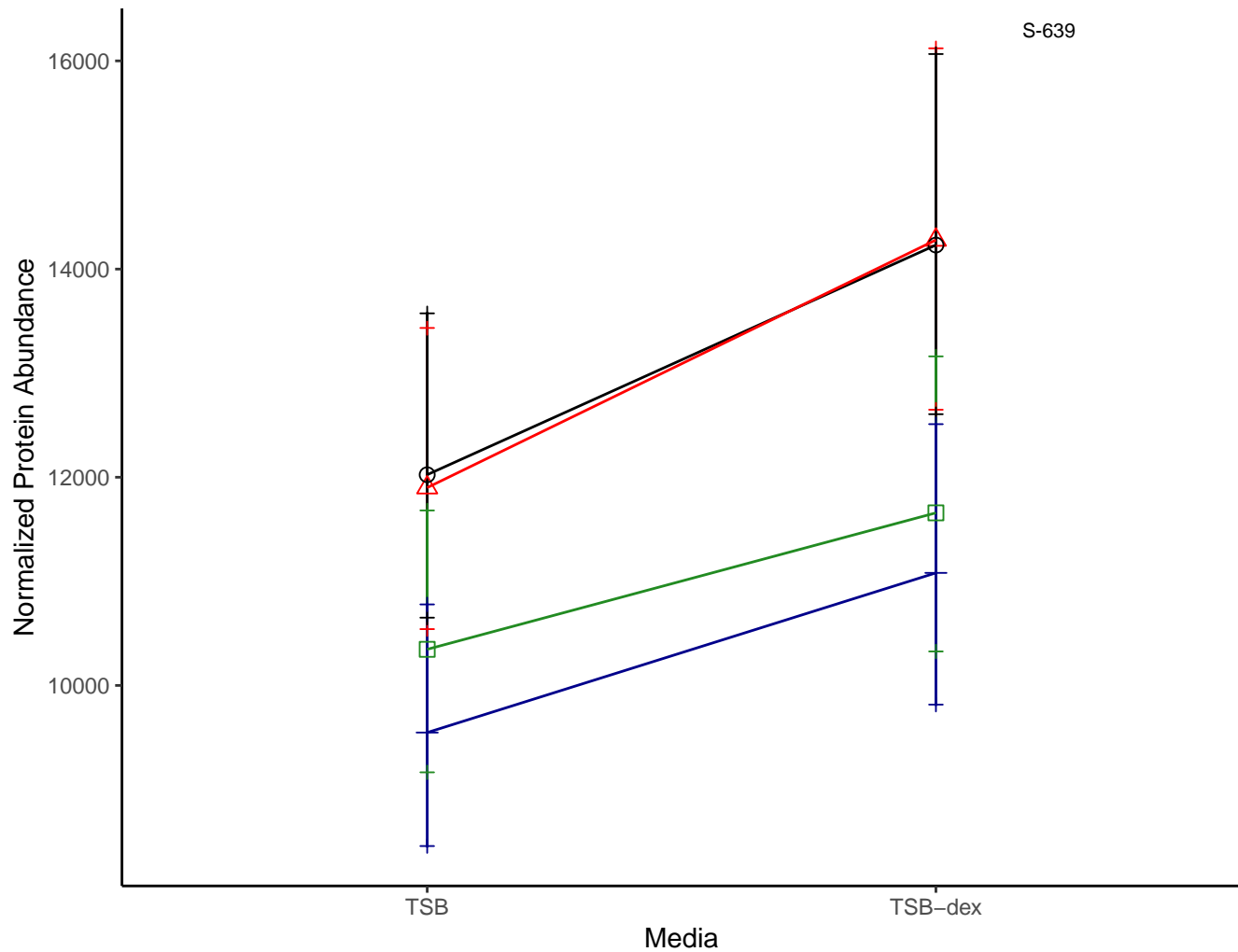
S-638



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLNA\_STAAM

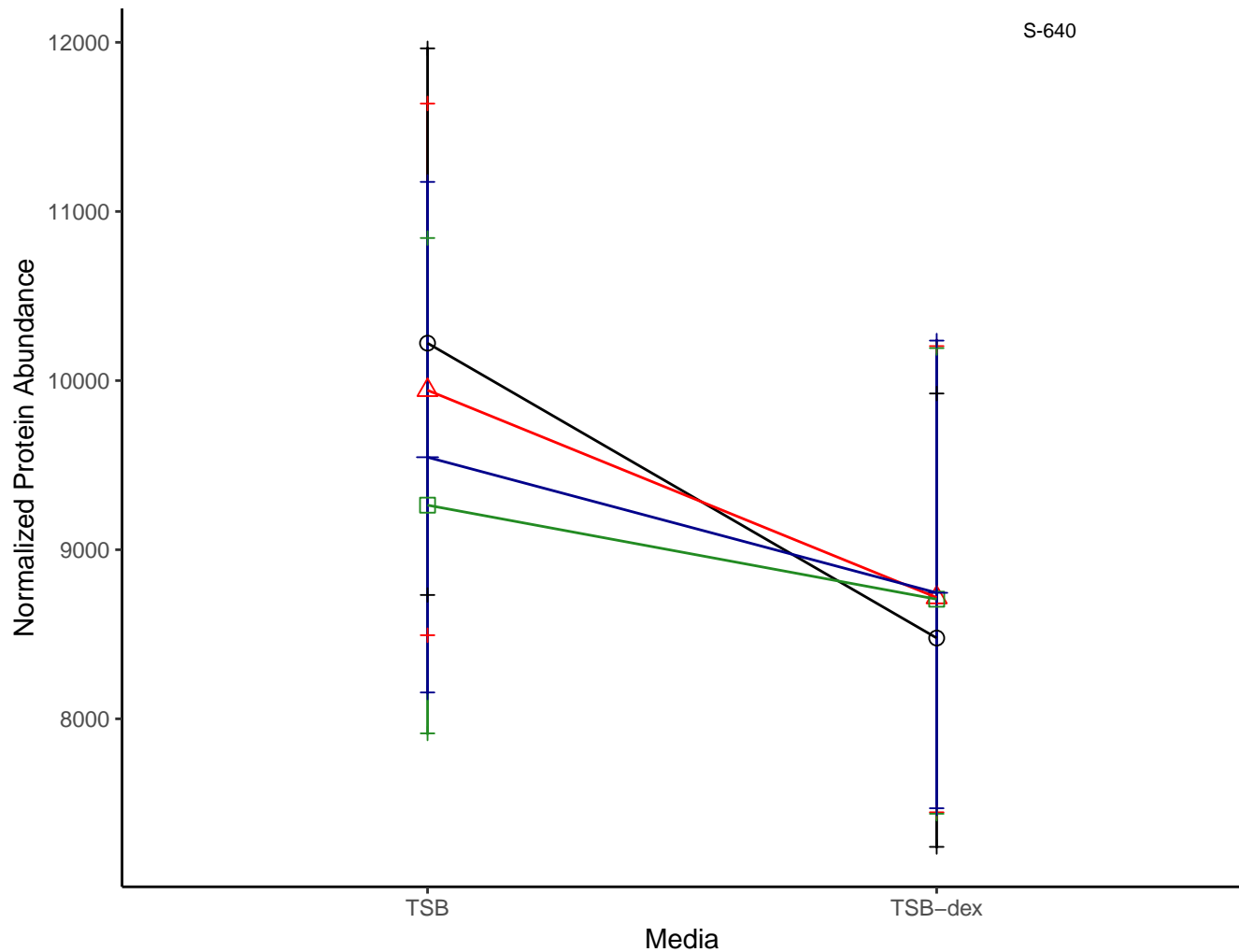
S-639



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLPD\_STAAM

S-640

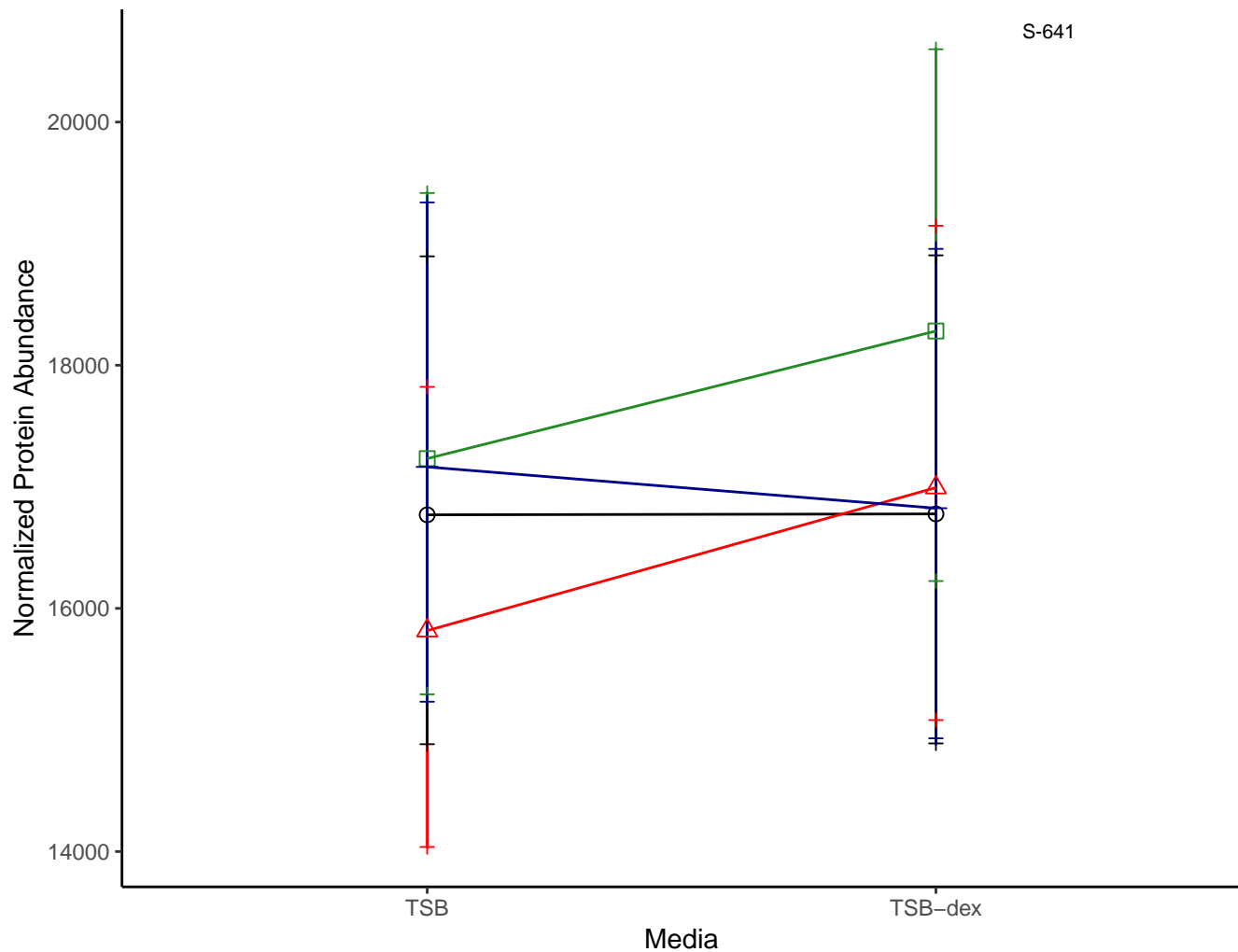


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GLPK\_STAAM

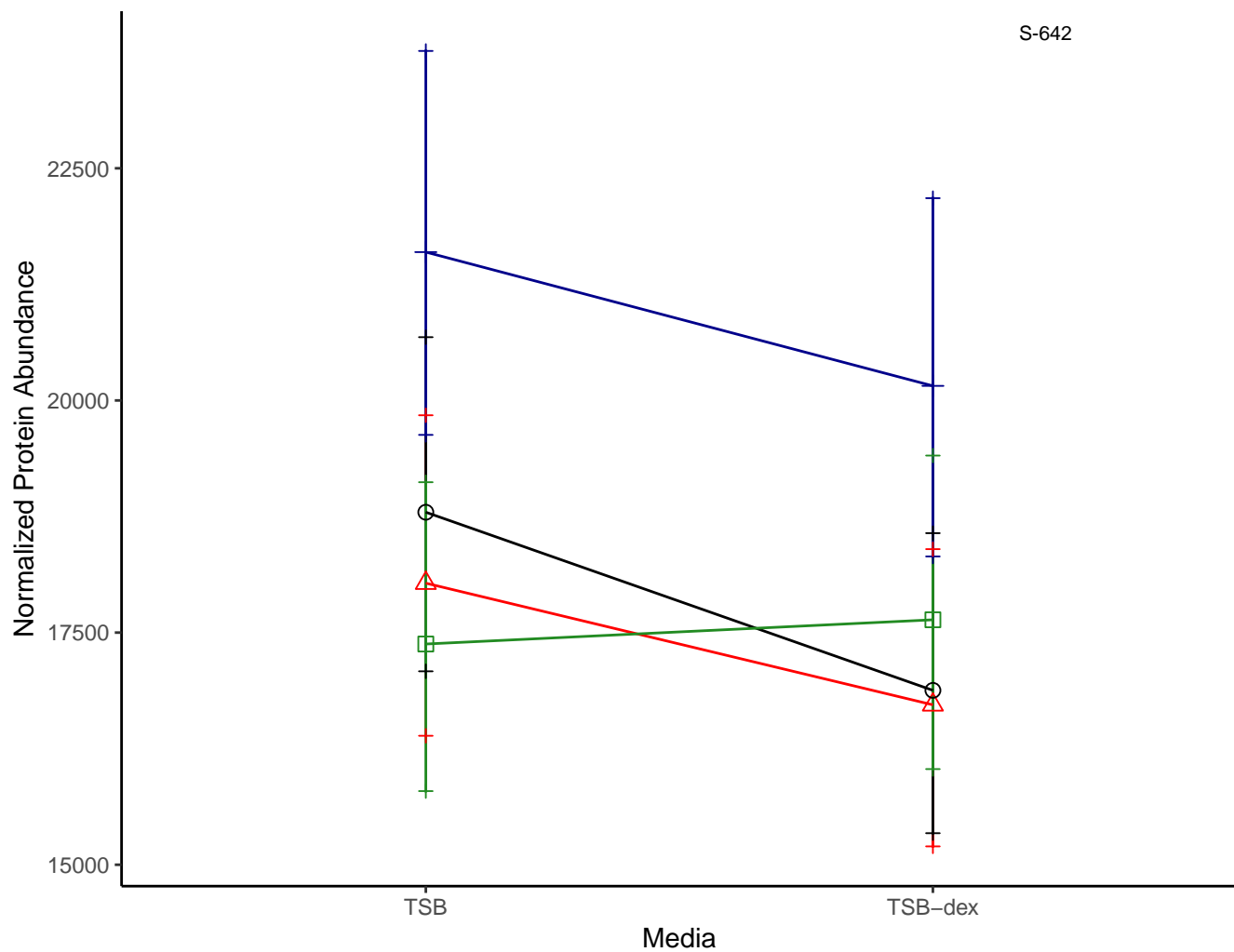
S-641



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLYA\_STAAM

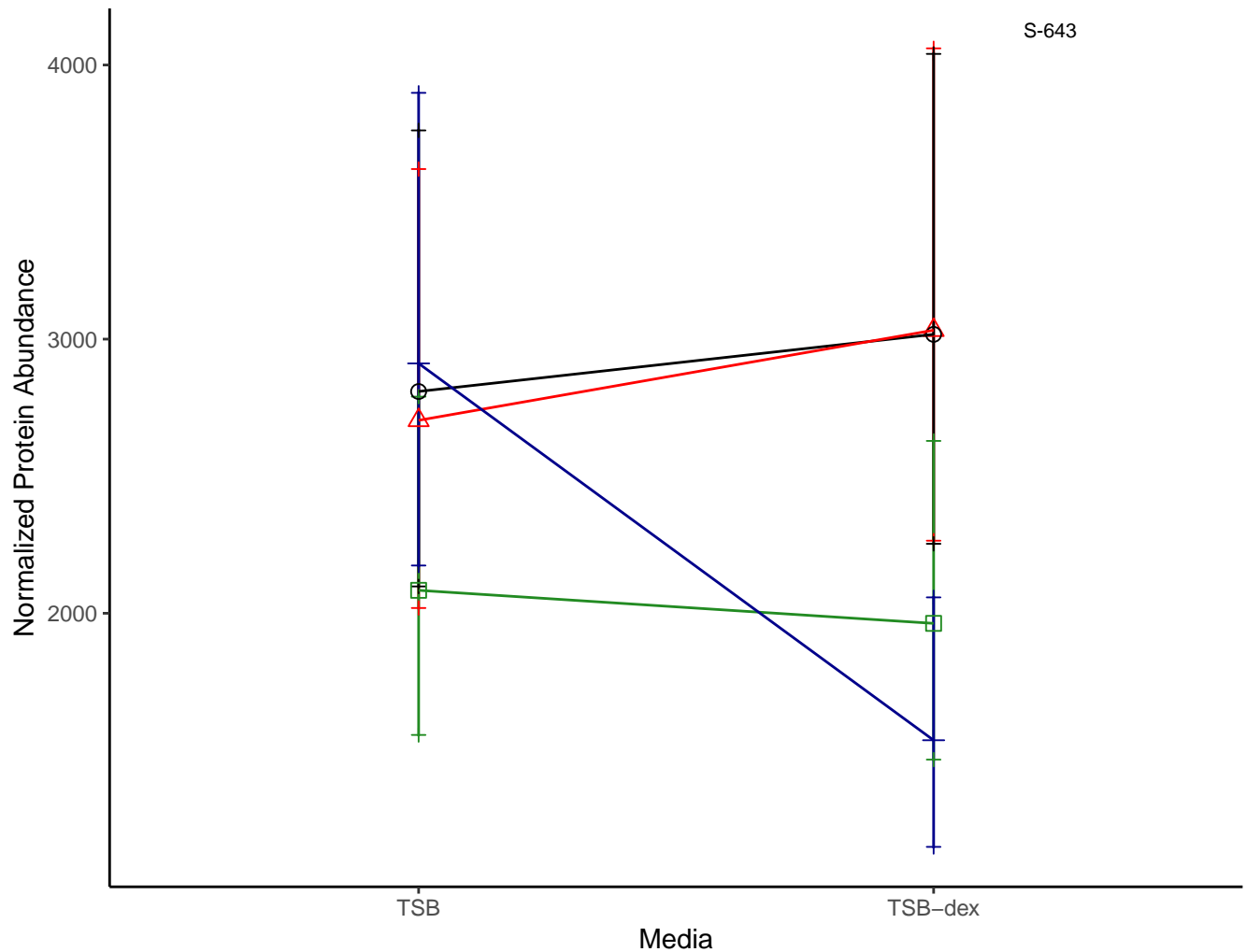
S-642



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GPDA\_STAAM

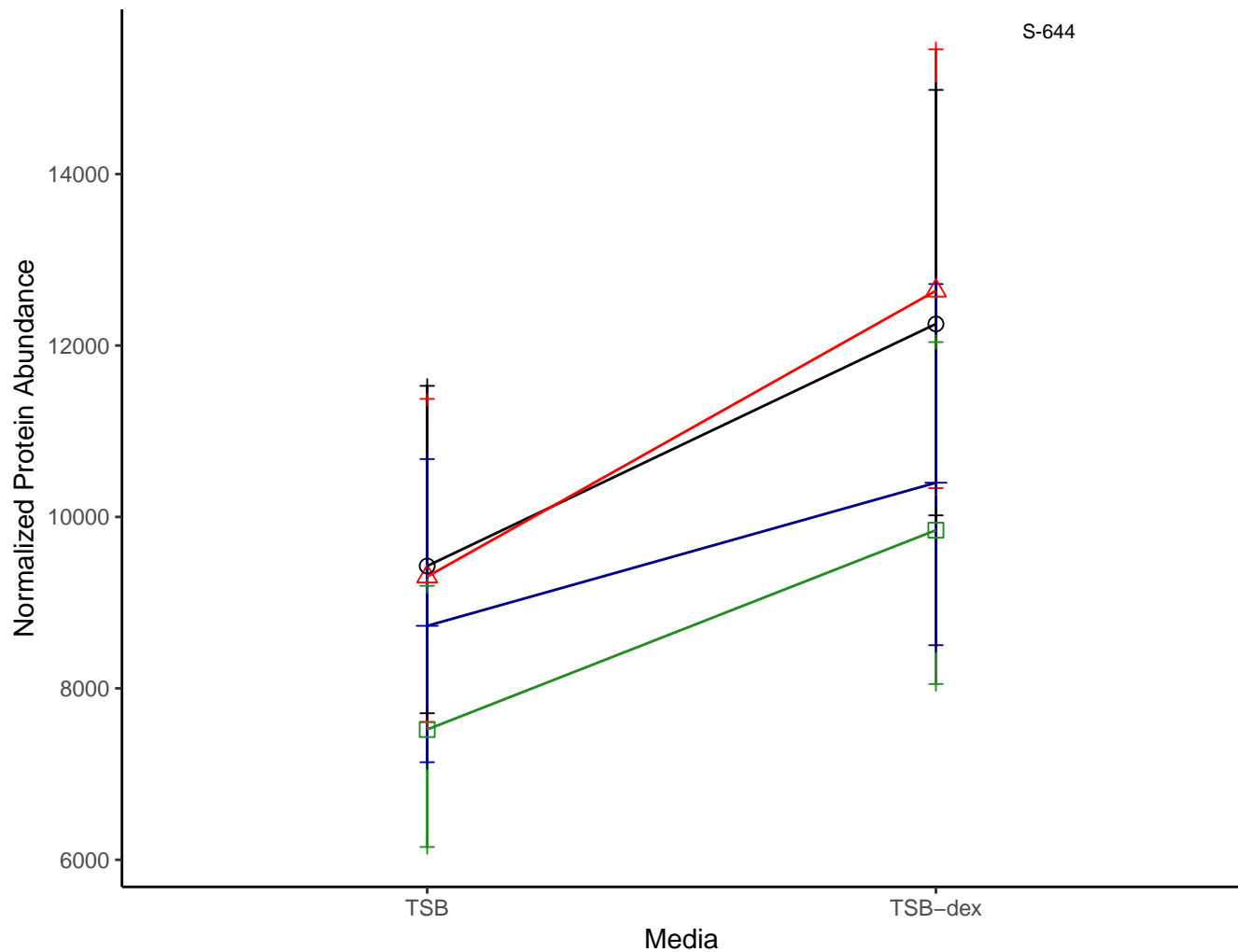
S-643



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GPMA\_STAAM

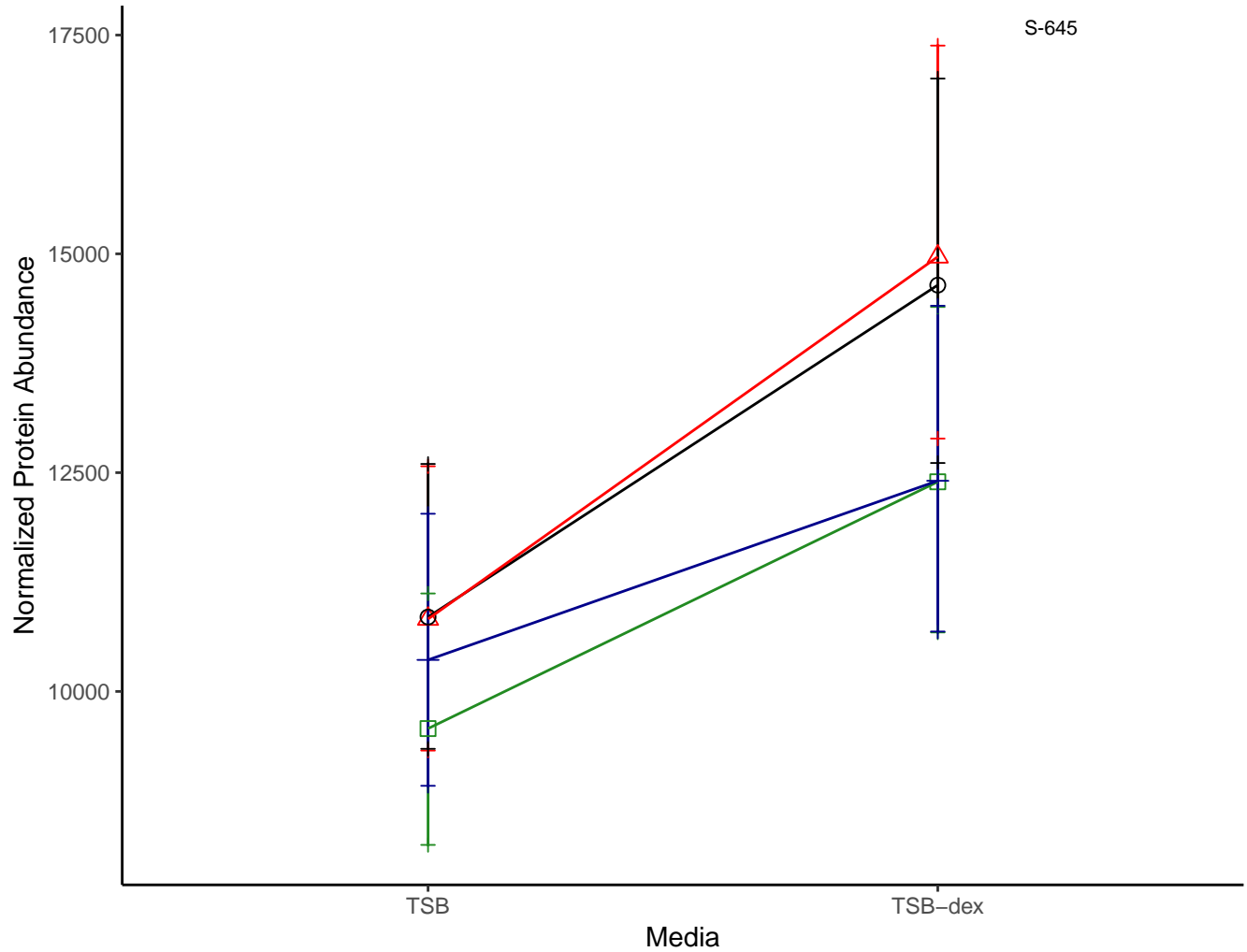
S-644



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GPMI\_STAAM

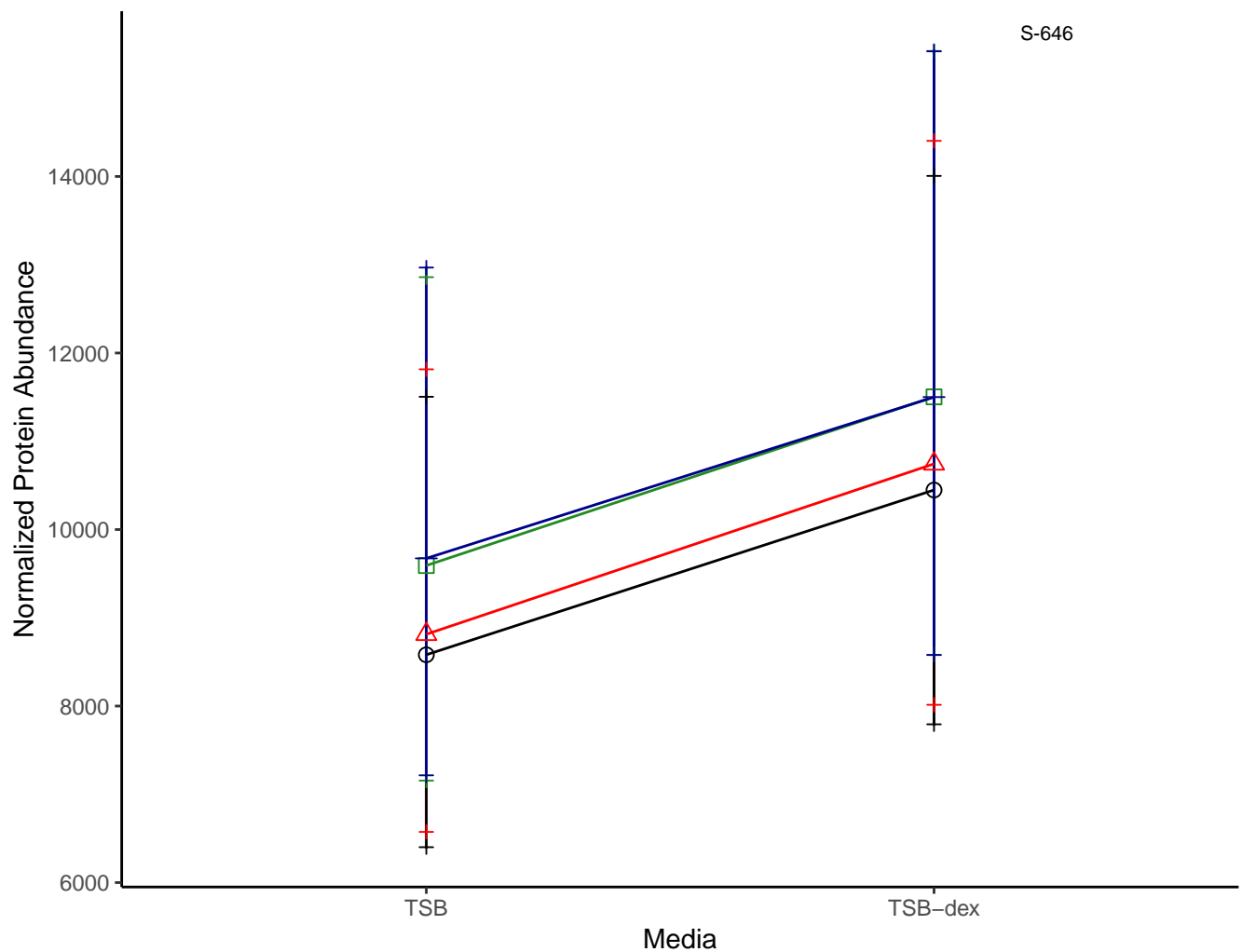
S-645



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GPSB\_STAAM

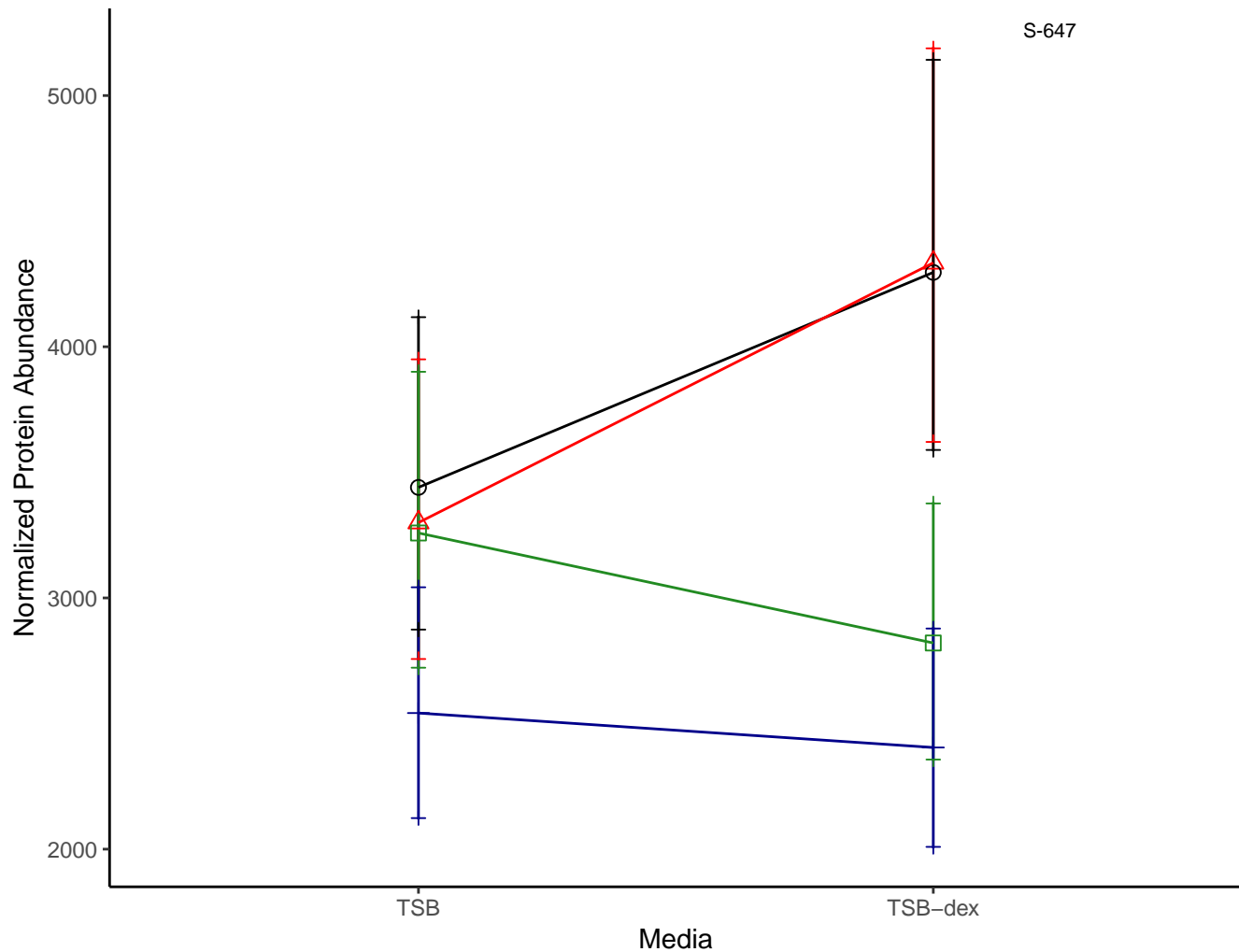
S-646



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GRAR\_STAAM

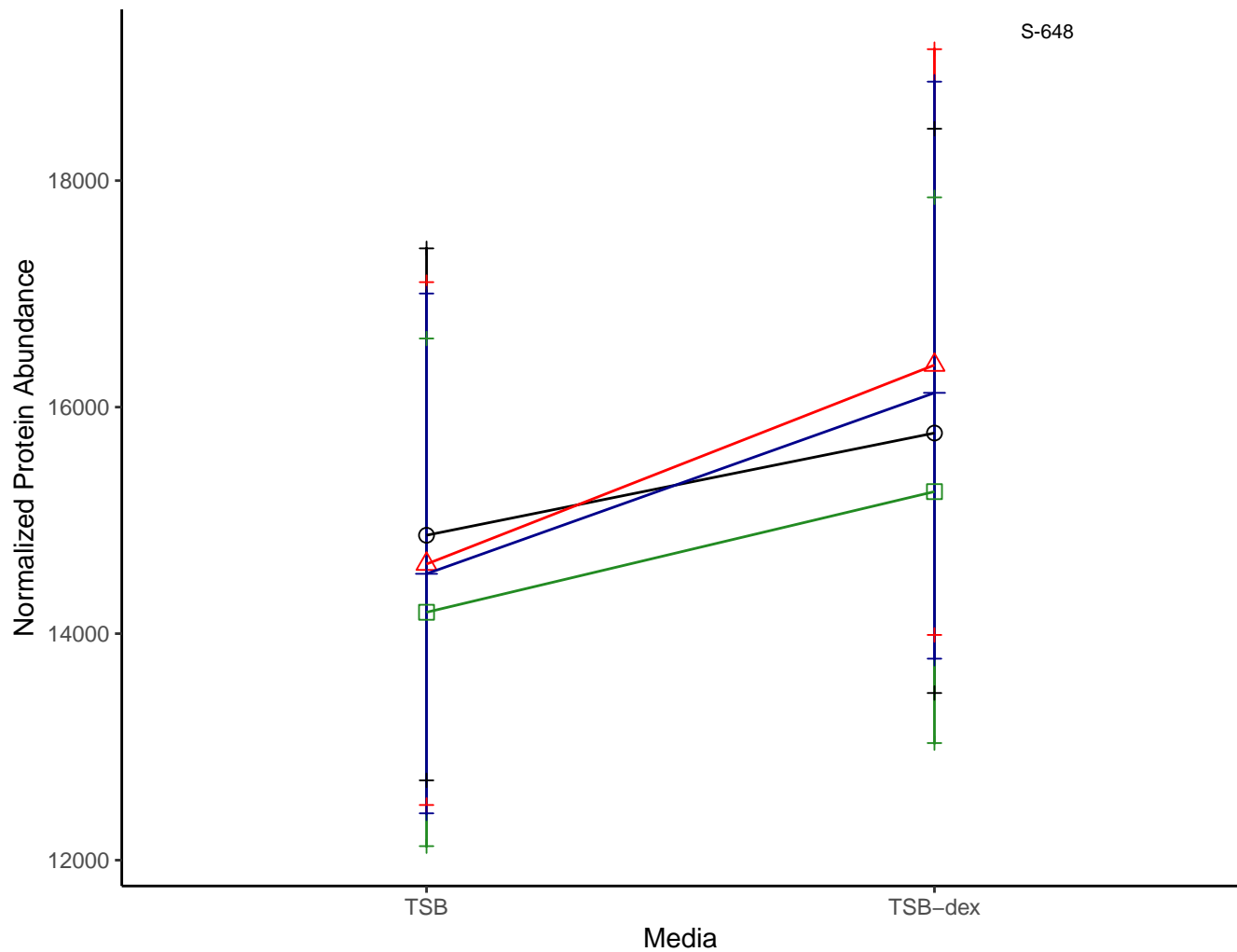
S-647



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GREY\_STAAM

S-648

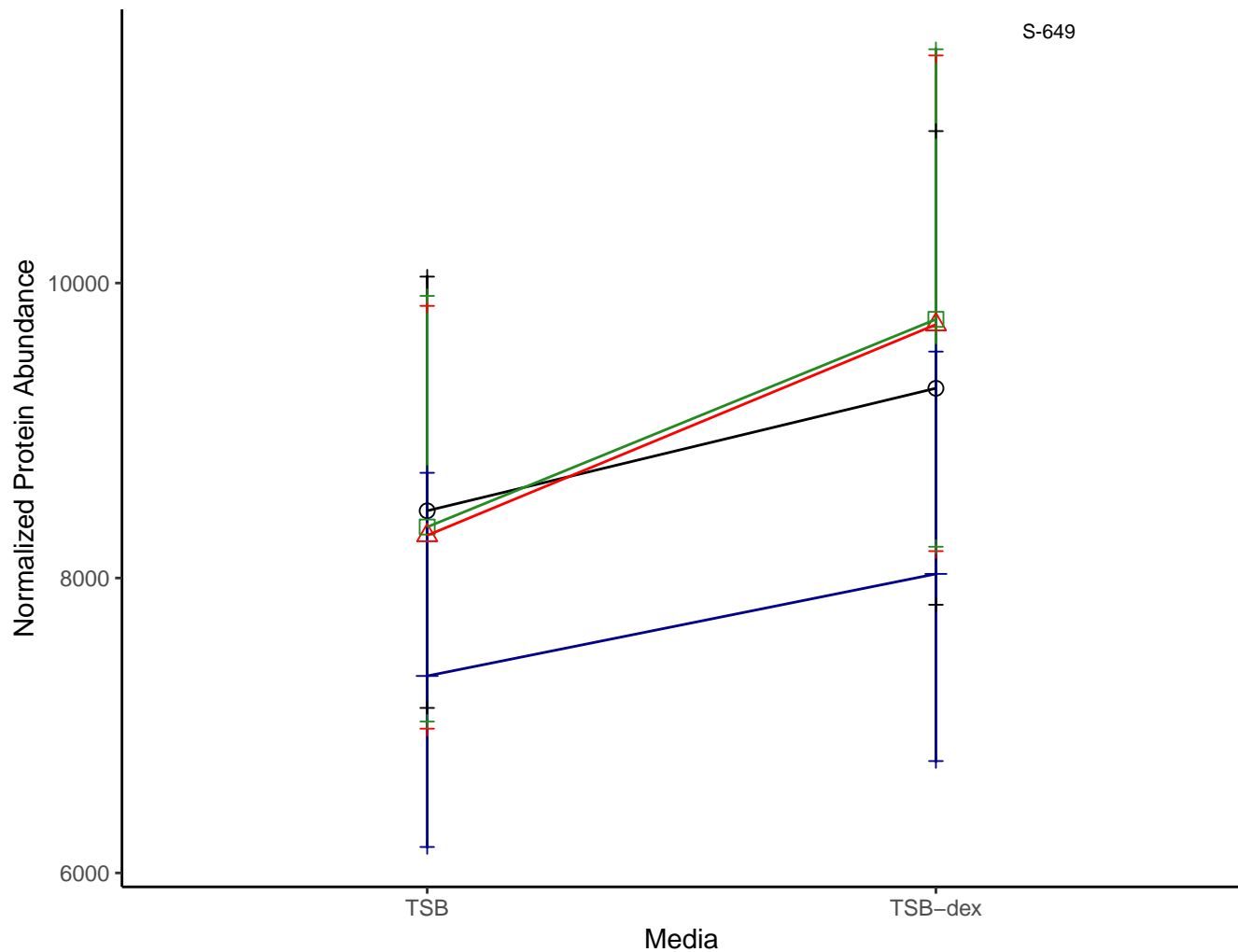


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GRPE\_STAAM

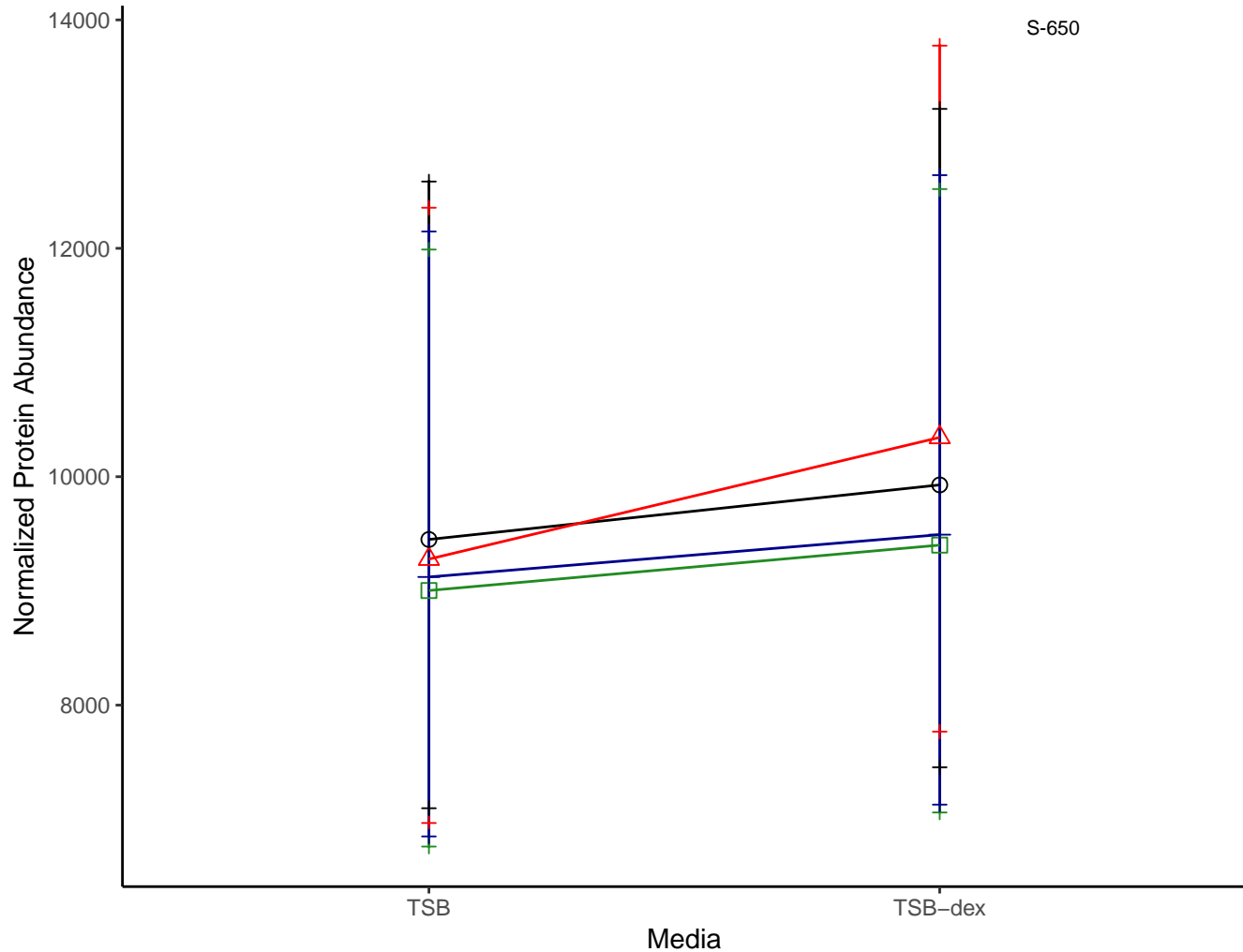
S-649



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GSA1\_STAAM

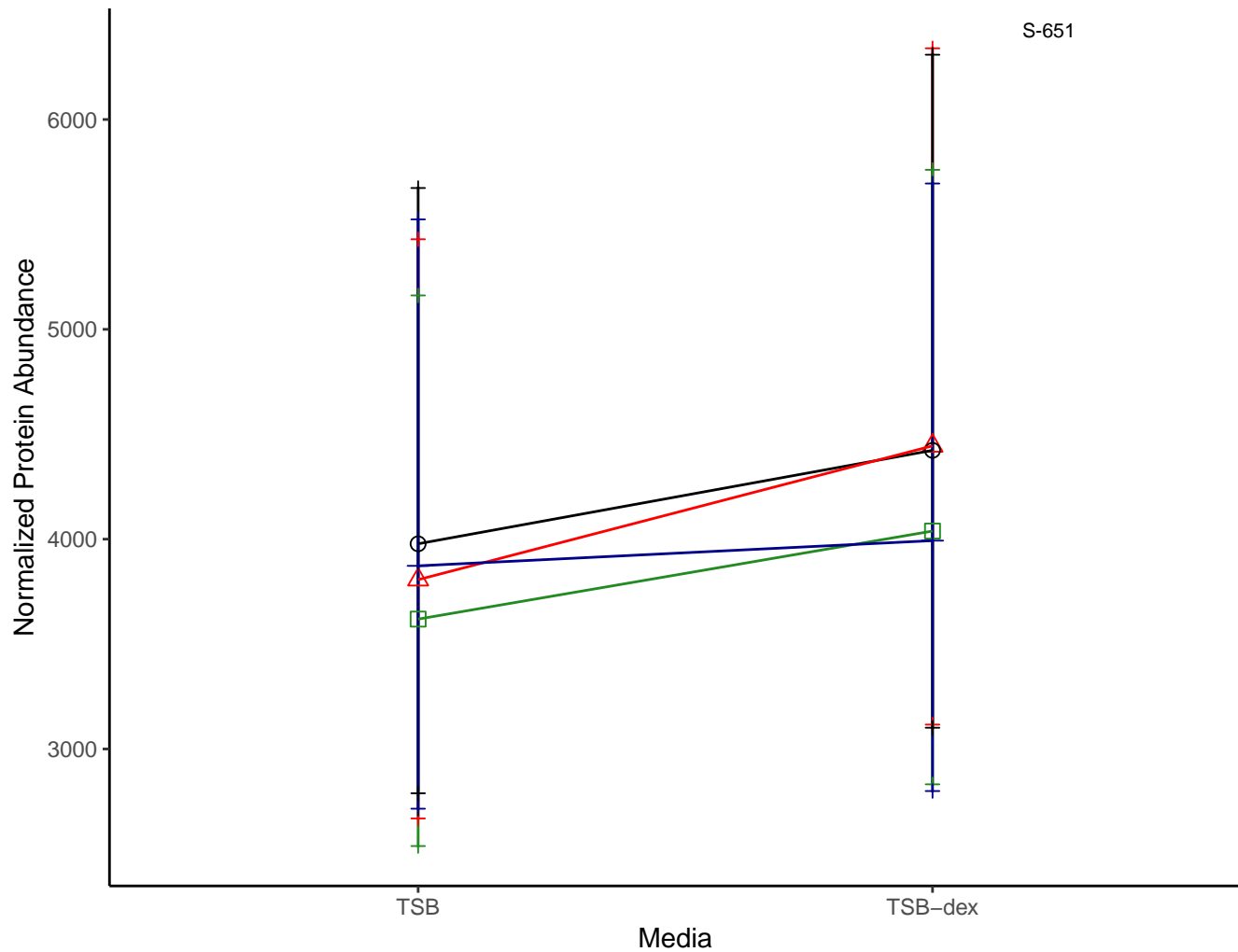
S-650



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GSA2\_STAAM

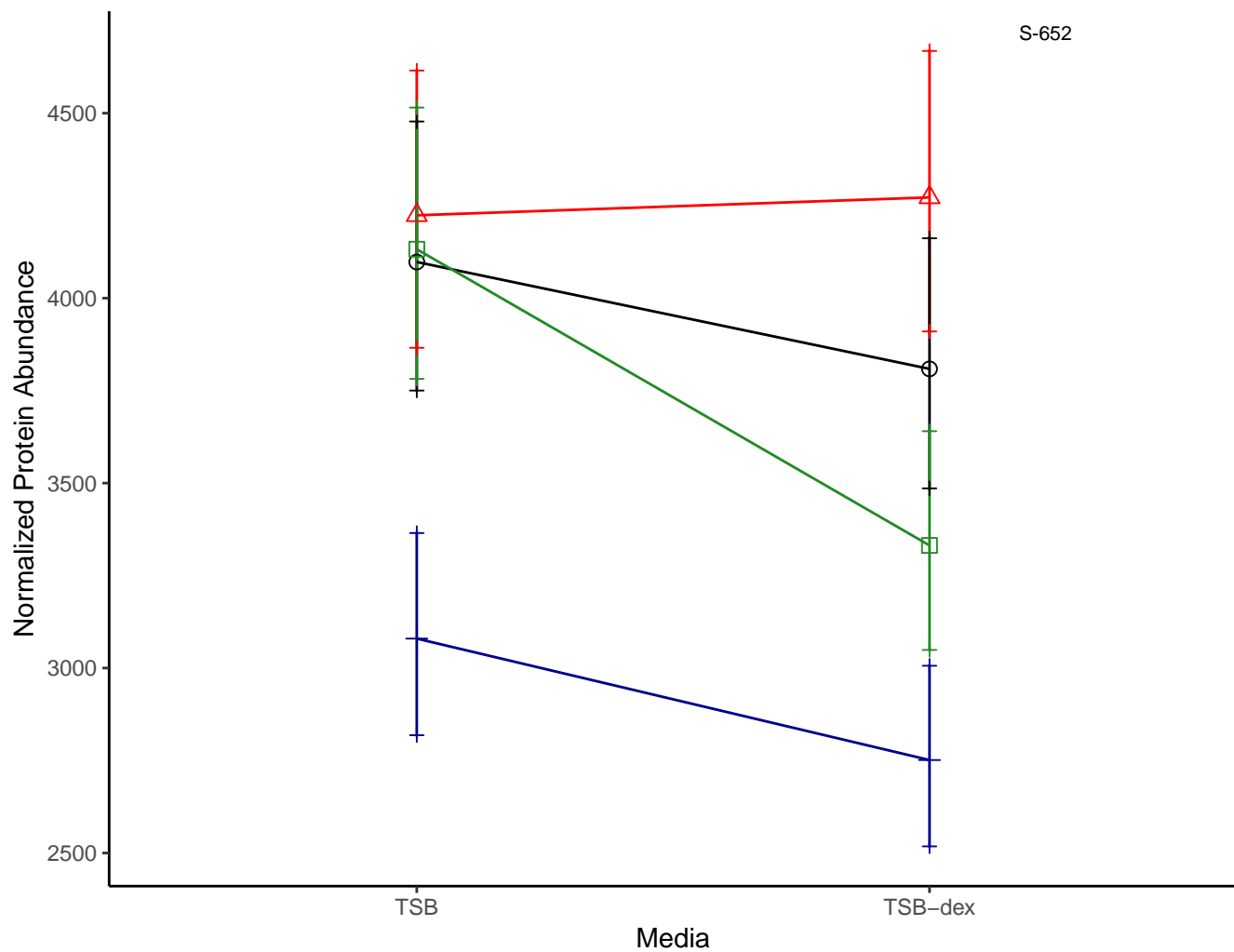
S-651



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# GTAB\_STAAM

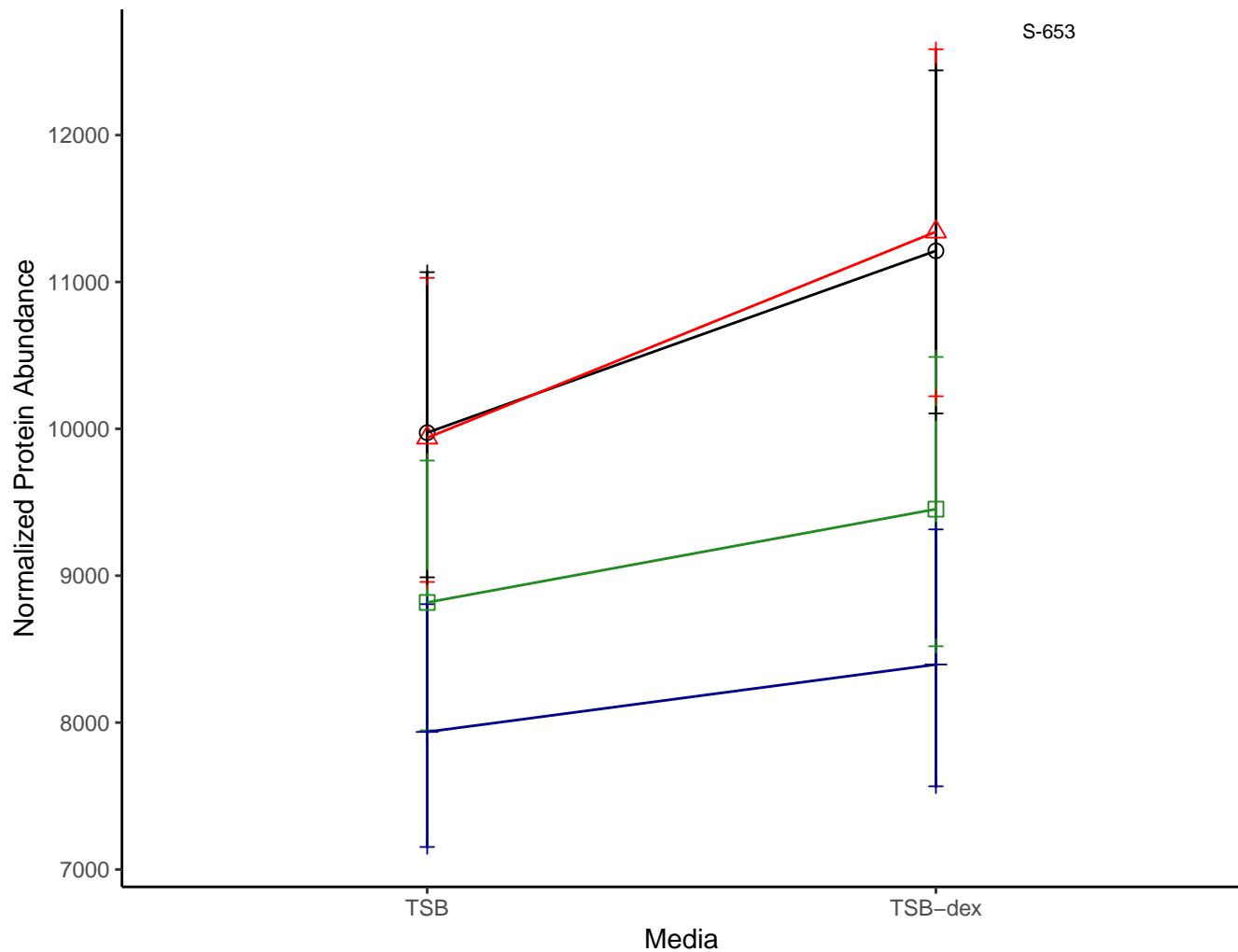
S-652



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GUAA\_STAAM

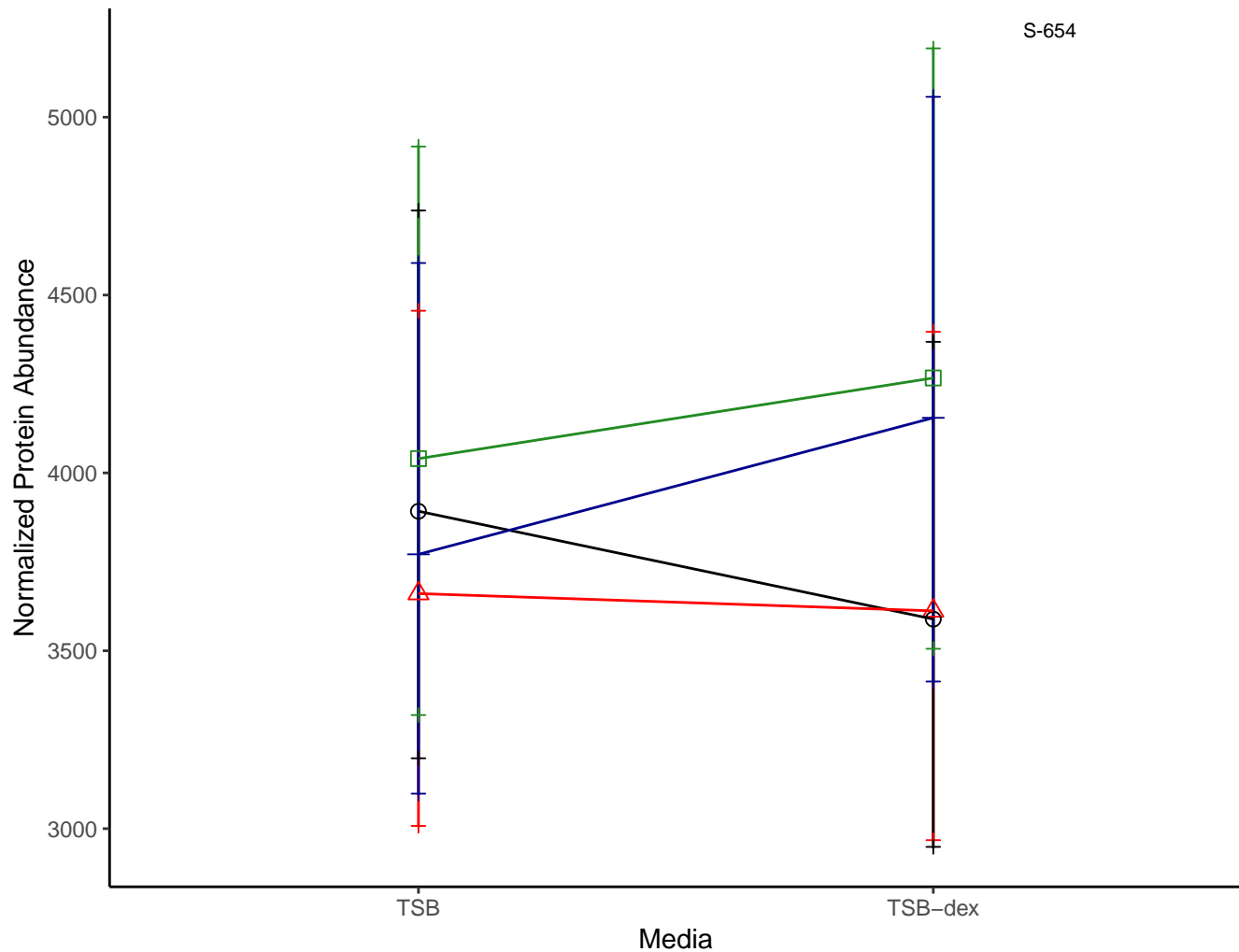
S-653



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GUAC\_STAAM

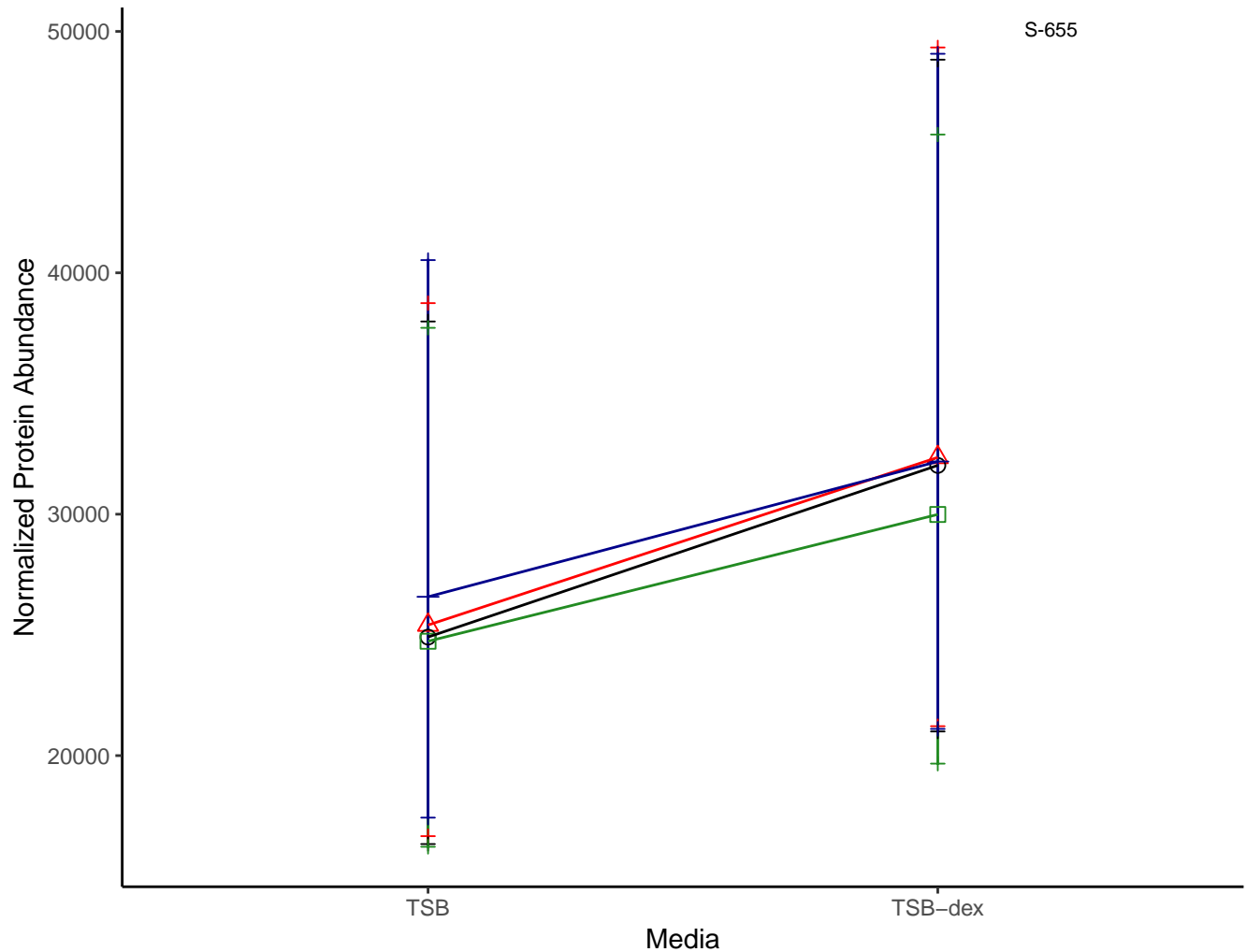
S-654



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GYRB\_STAAM

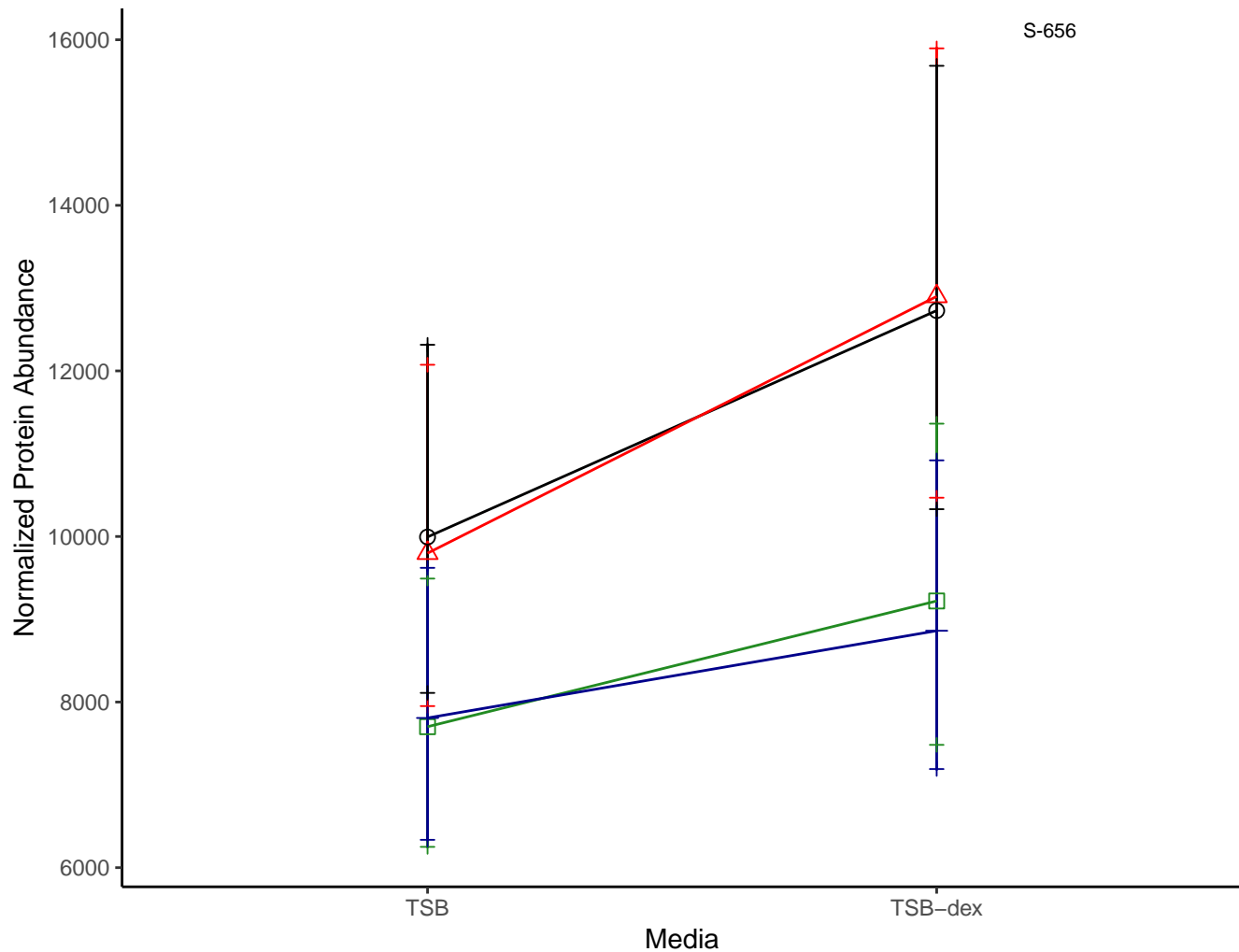
S-655



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HCHA\_STAAM

S-656

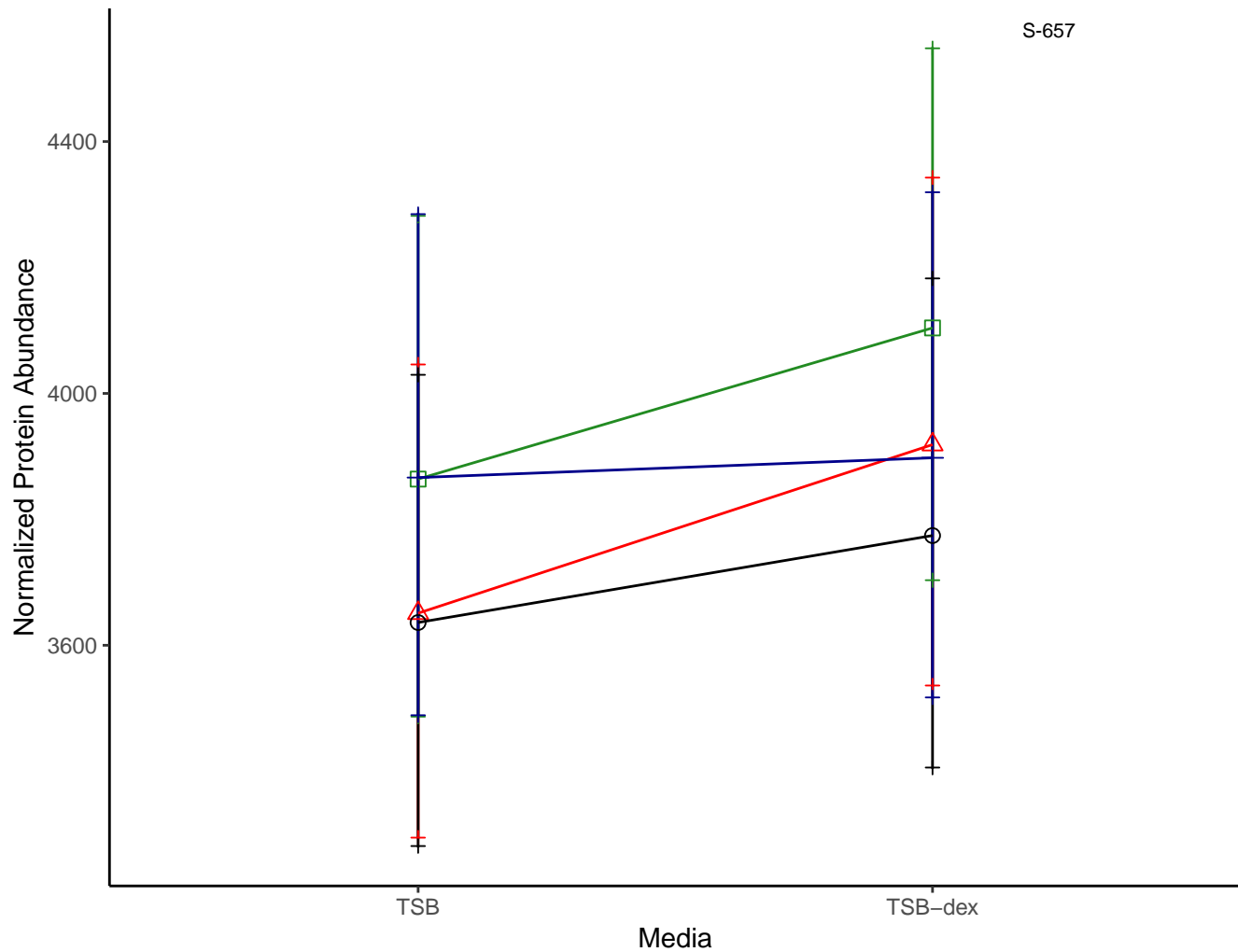


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# HEM2\_STAAM

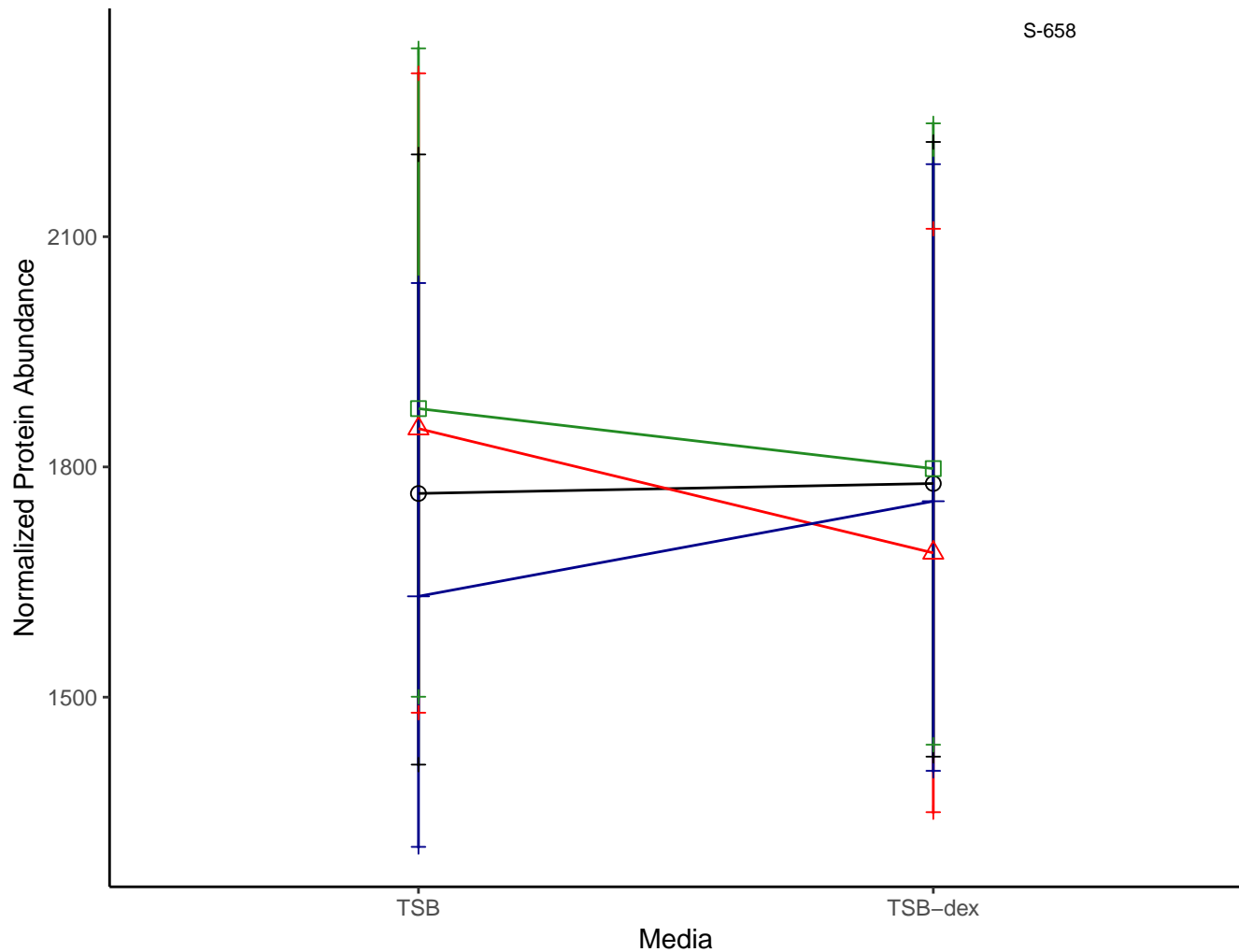
S-657



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HEM3\_STAAM

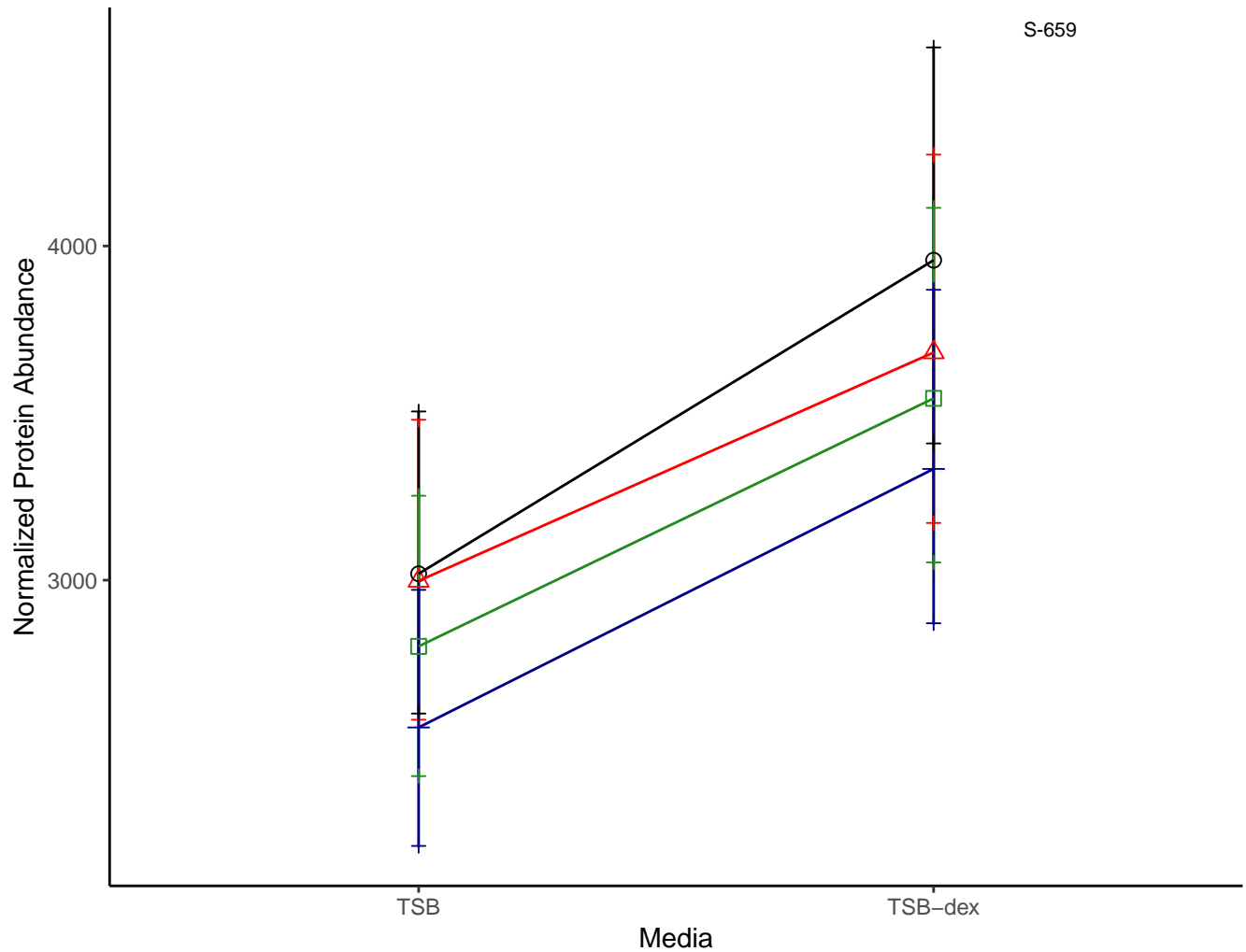
S-658



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HLD\_STAAM

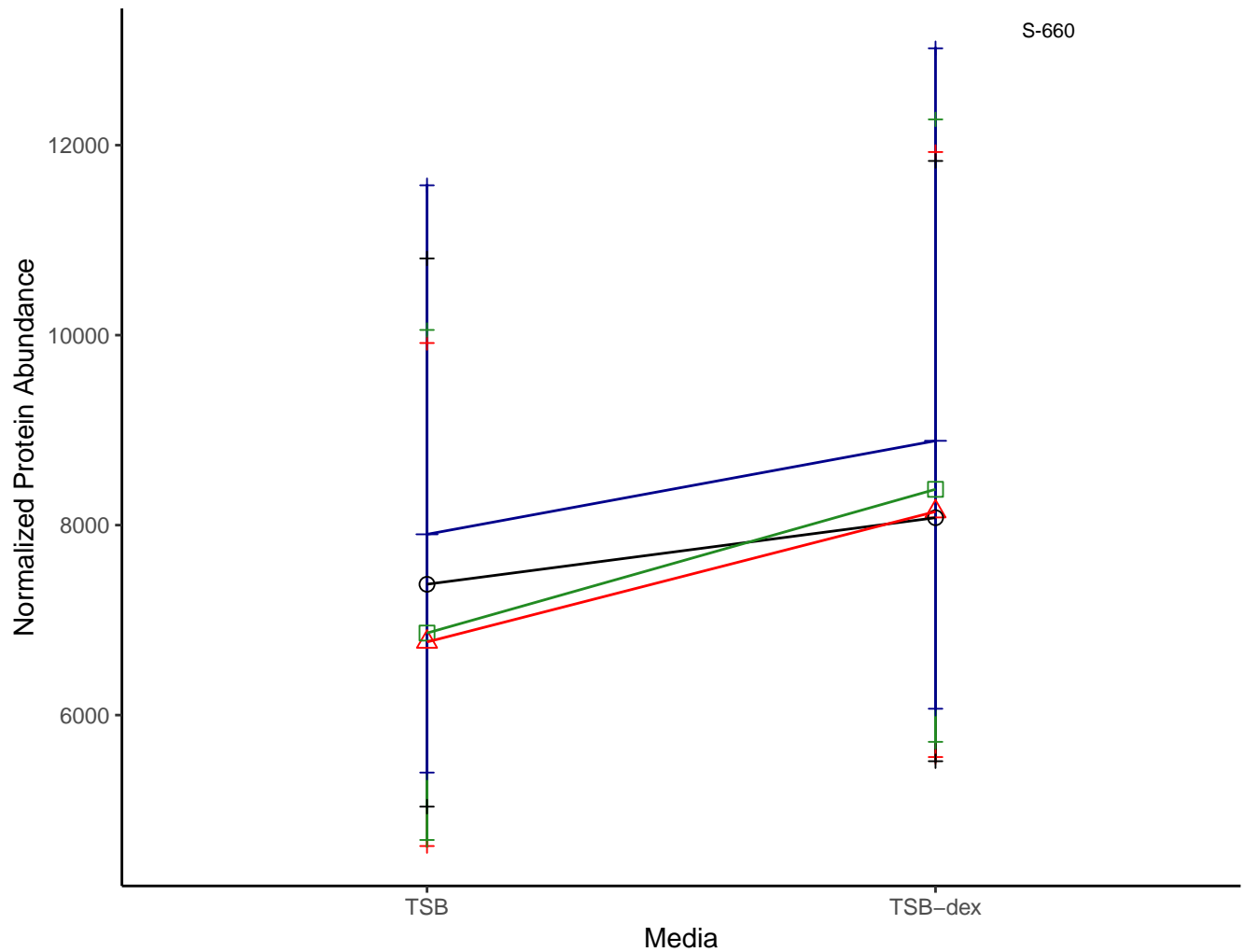
S-659



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HPRK\_STAAM

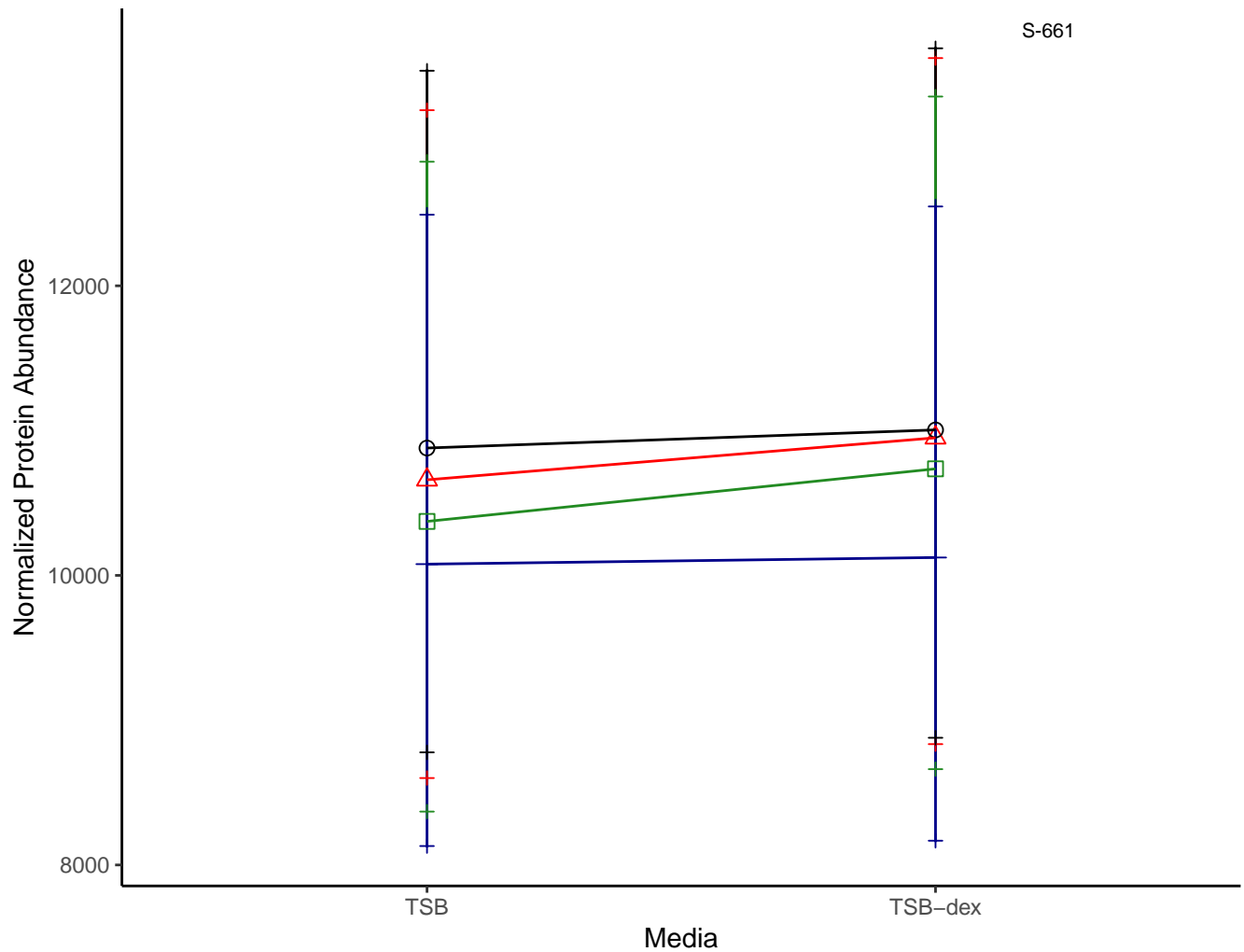
S-660



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HPRT\_STAAM

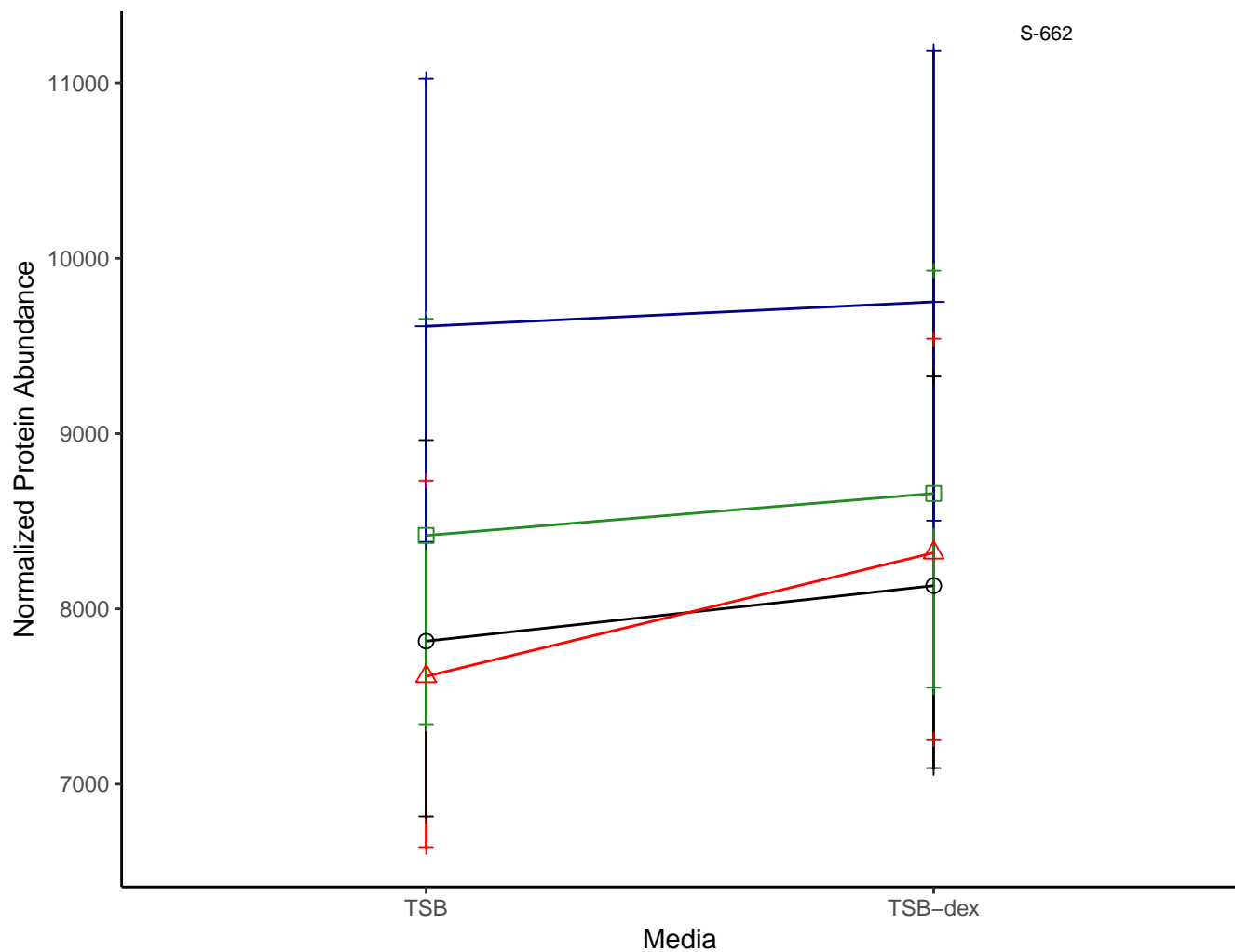
S-661



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# HPS\_STAAM

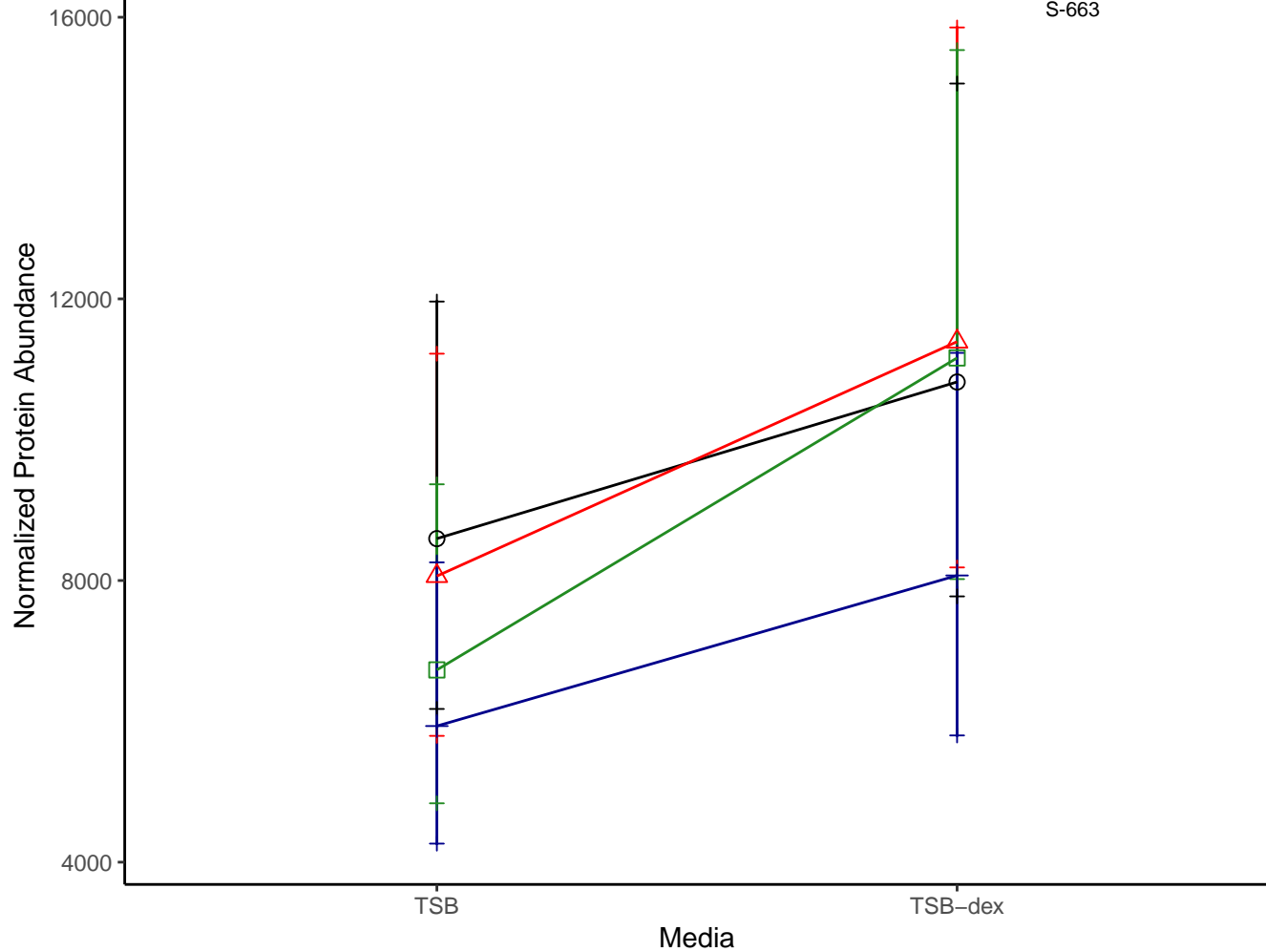
S-662



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HRTA\_STAAM

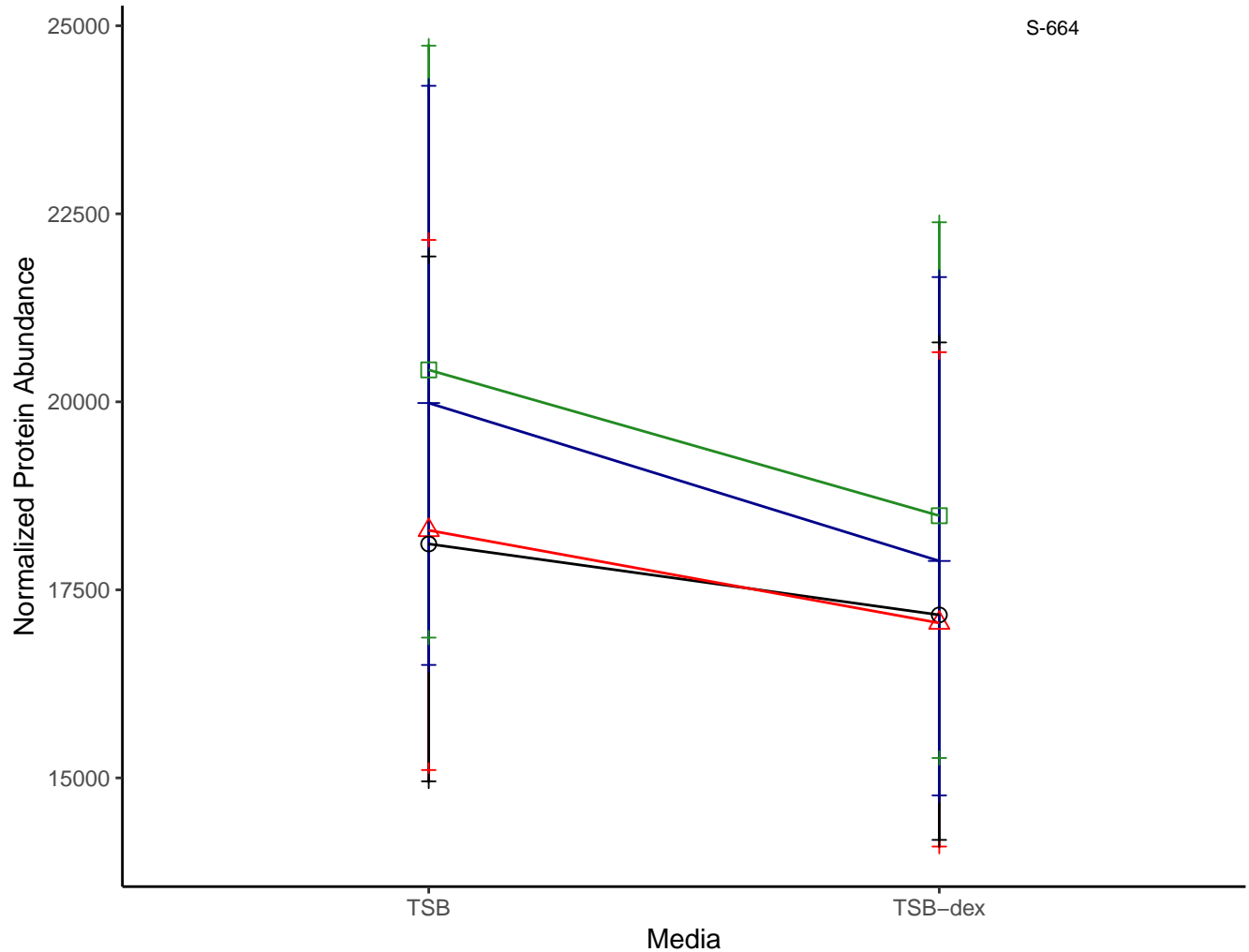
S-663



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HSLO\_STAAM

S-664

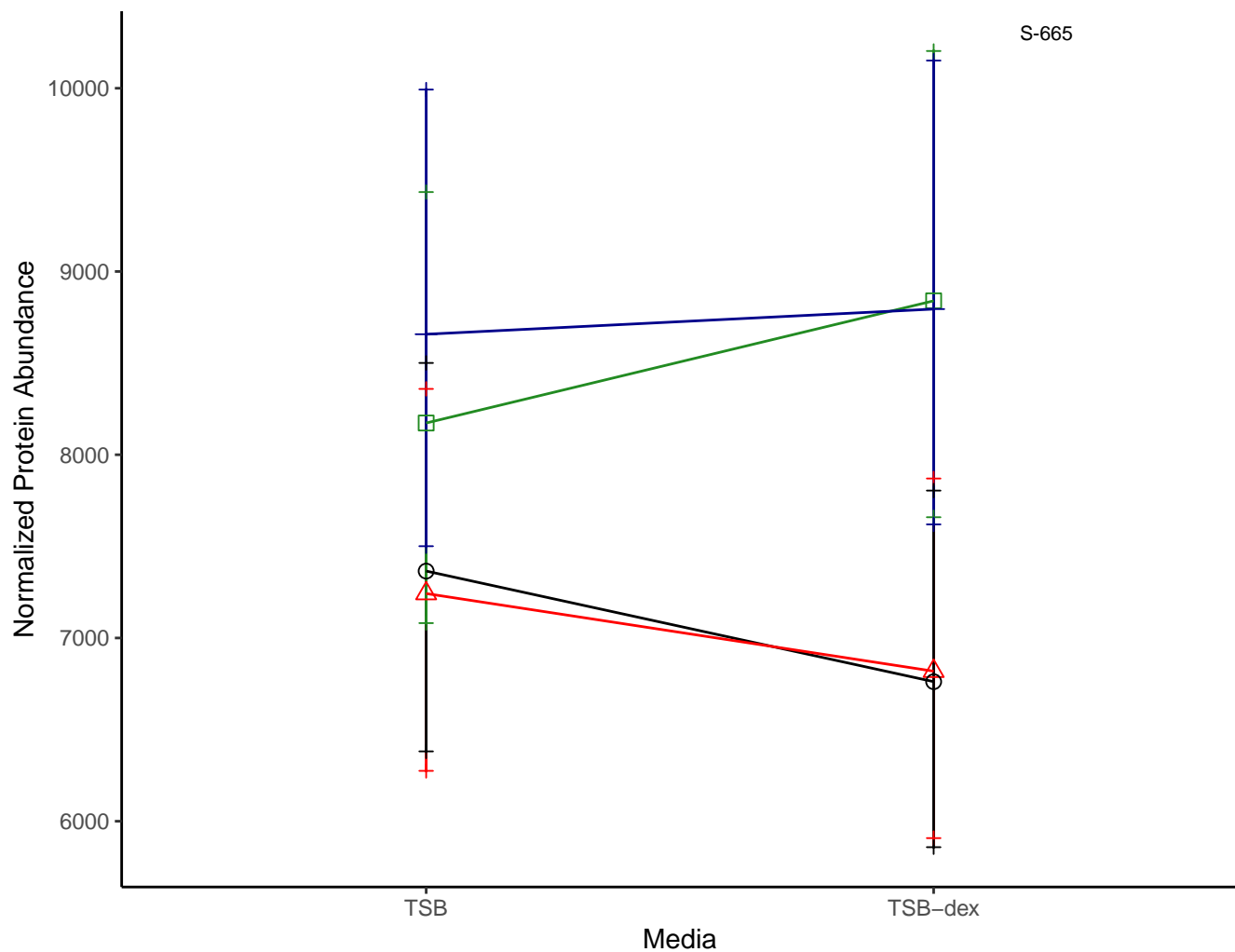


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# HSLU\_STAAM

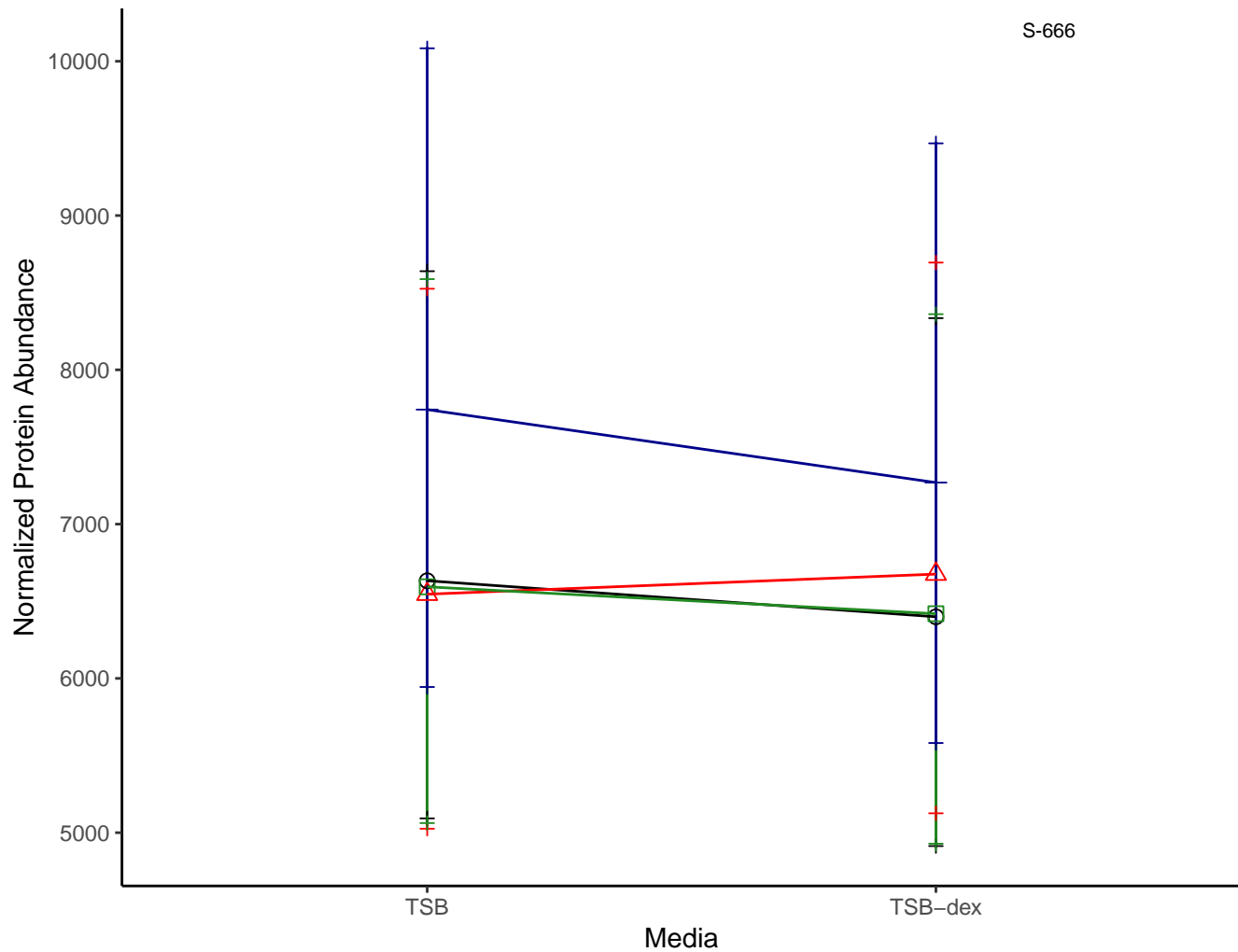
S-665



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊠ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HSLV\_STAAM

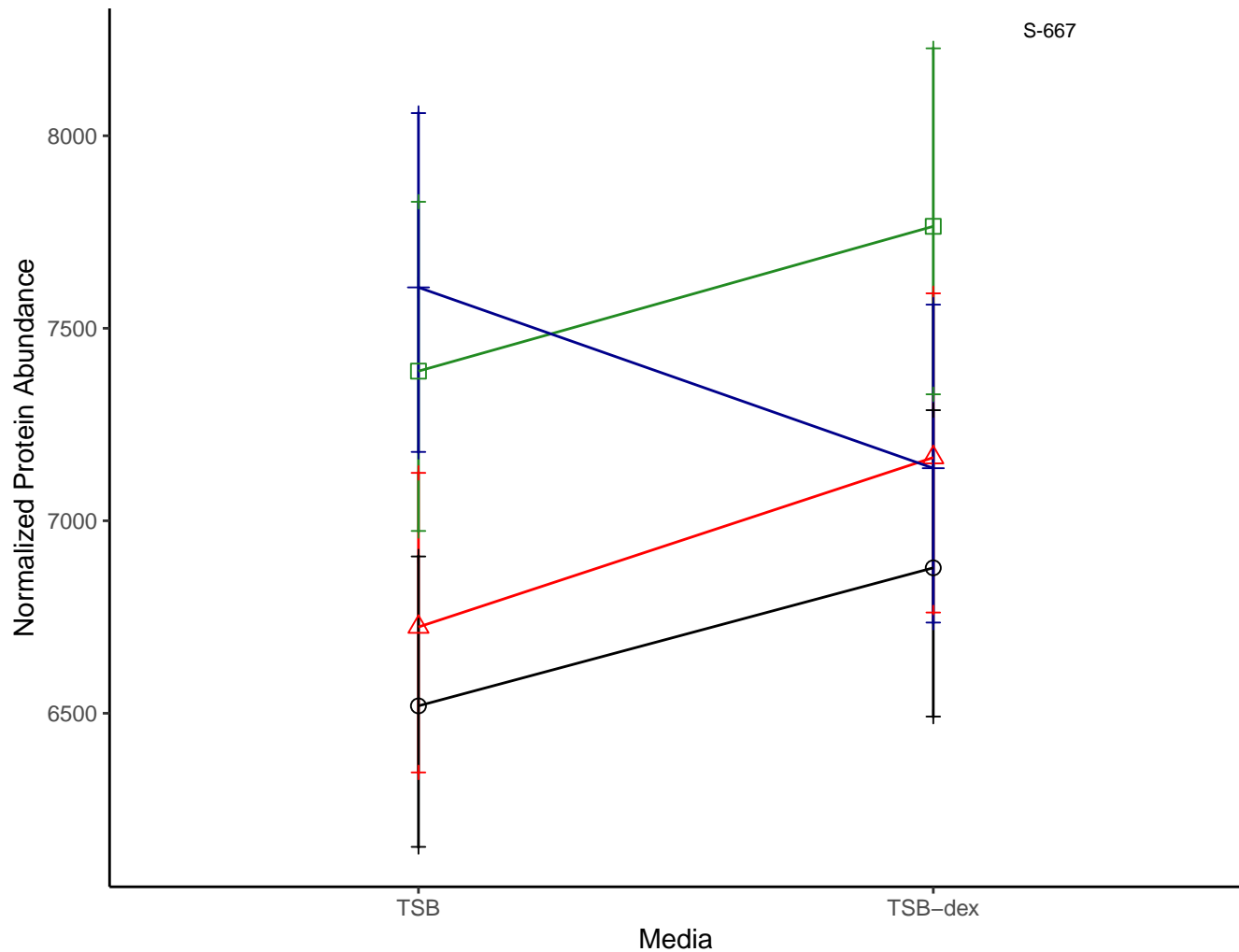
S-666



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HUTH\_STAAM

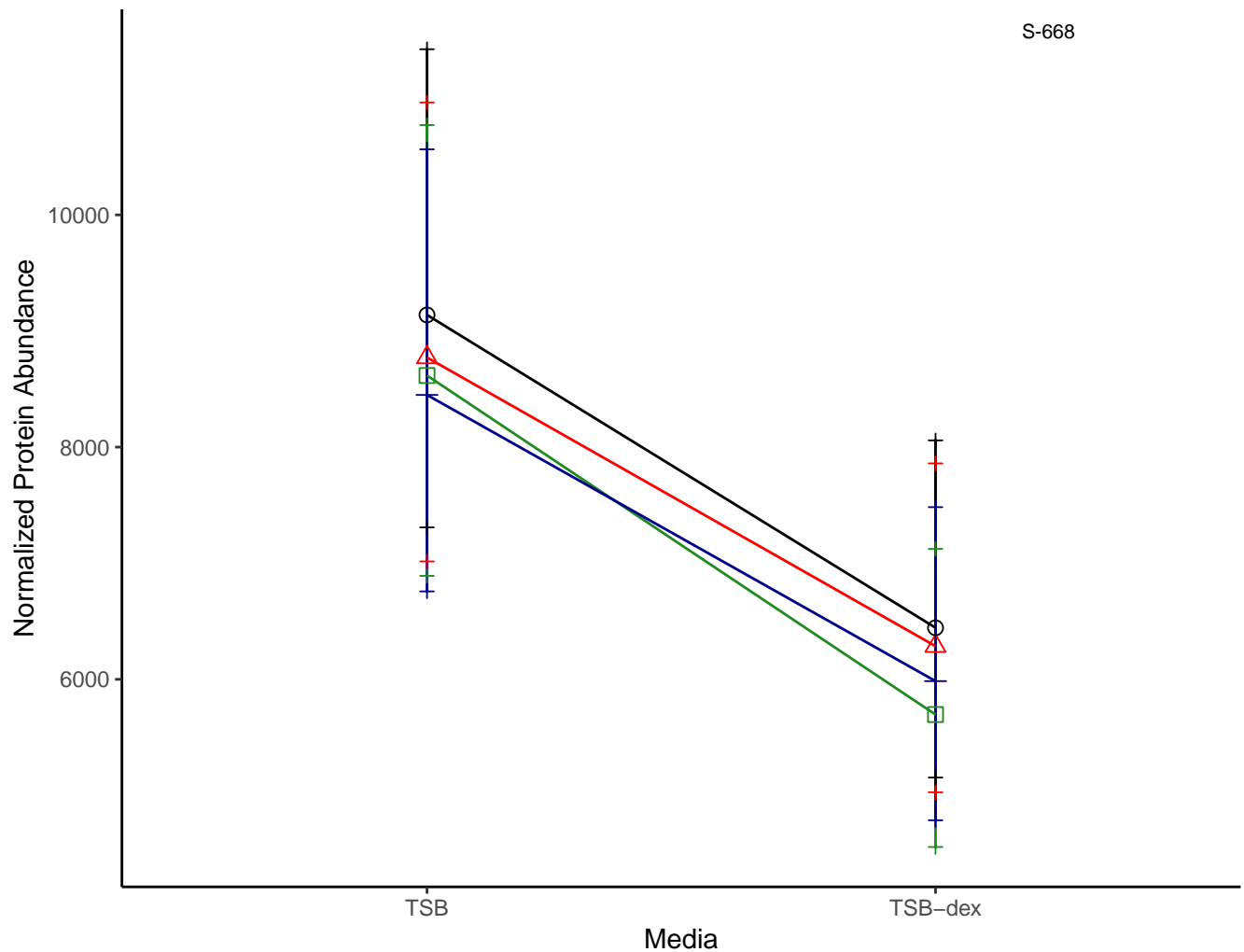
S-667



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊠ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HUTI\_STAAM

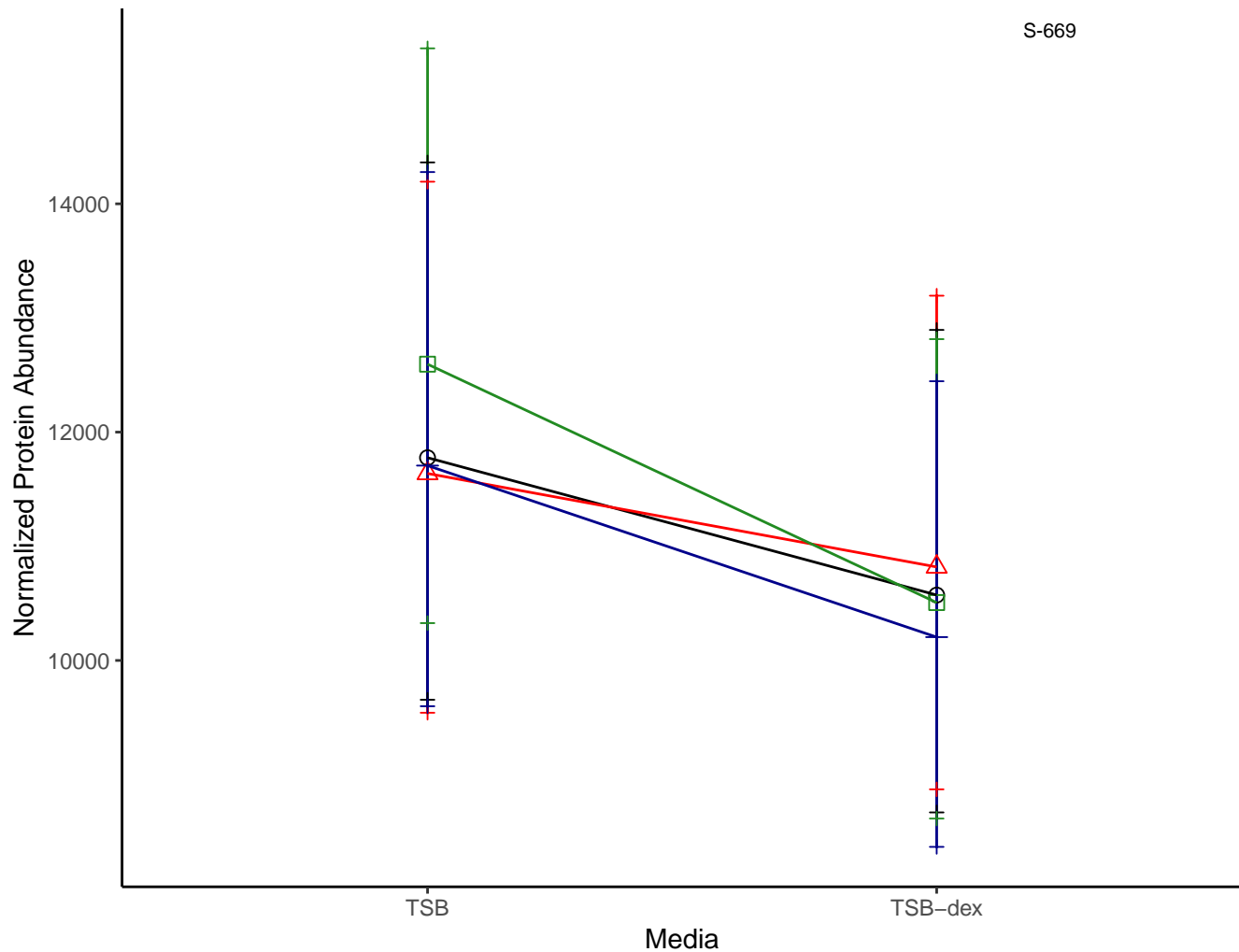
S-668



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# HUTU\_STAAM

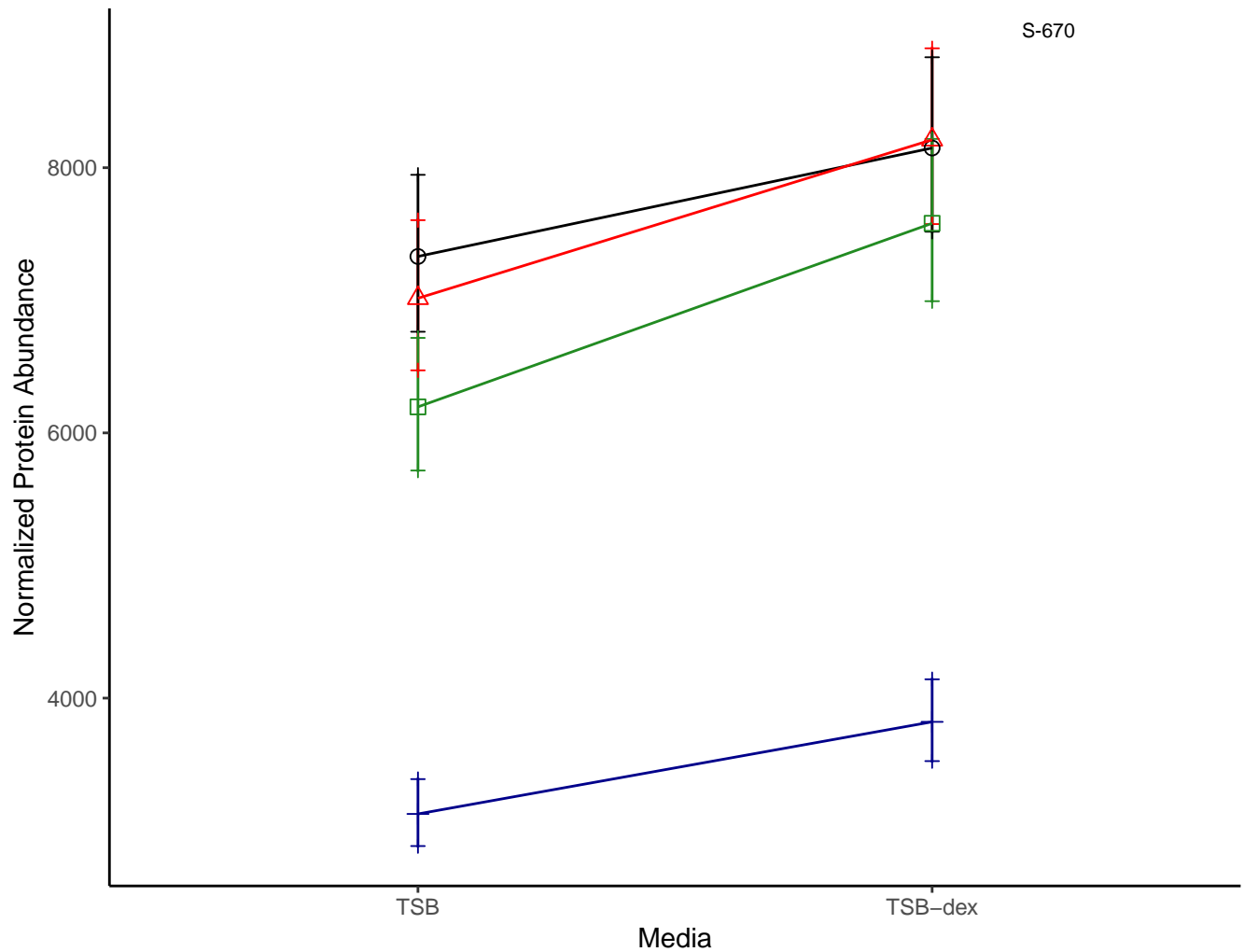
S-669



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ICAB\_STAAM

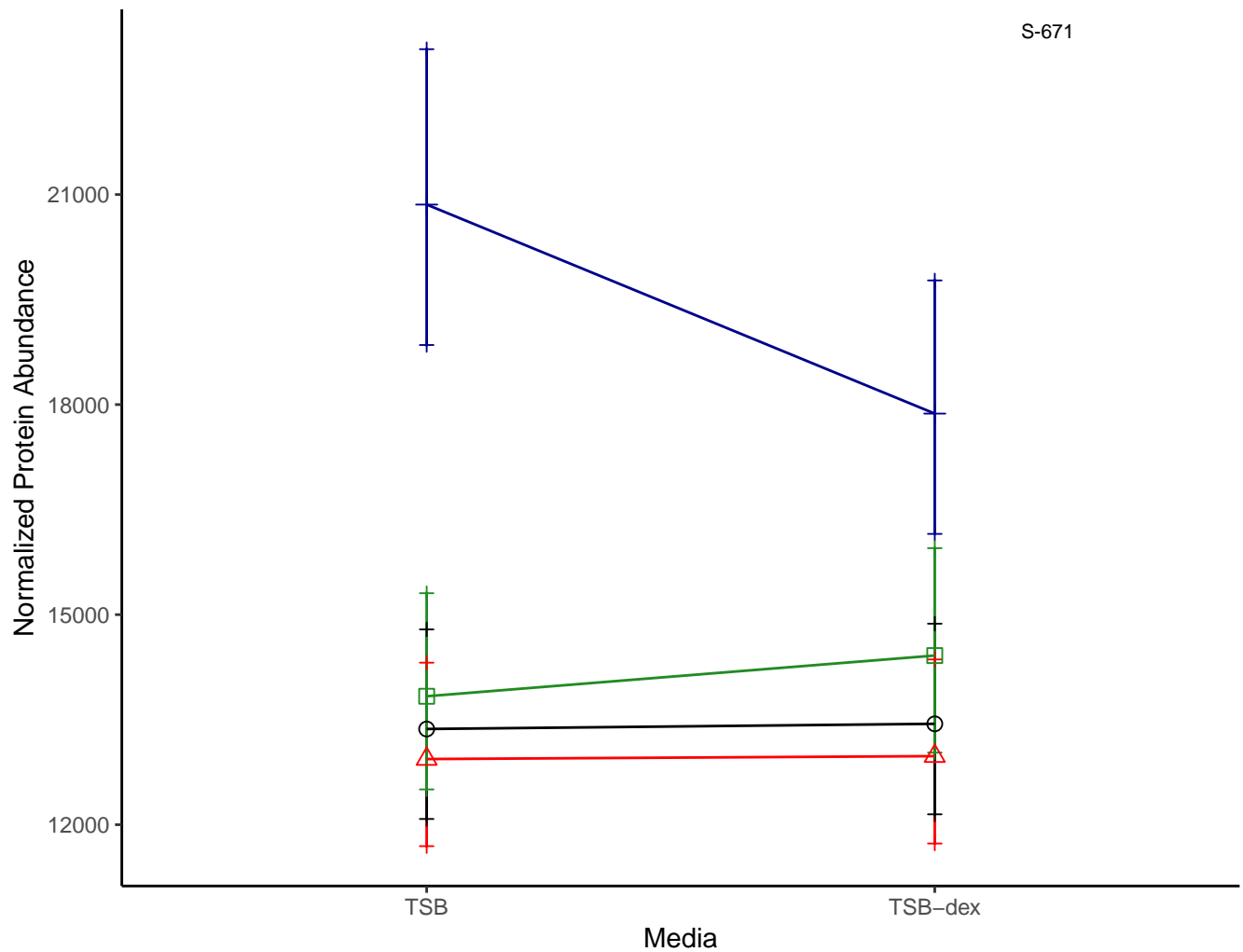
S-670



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*

# IDH\_STAAM

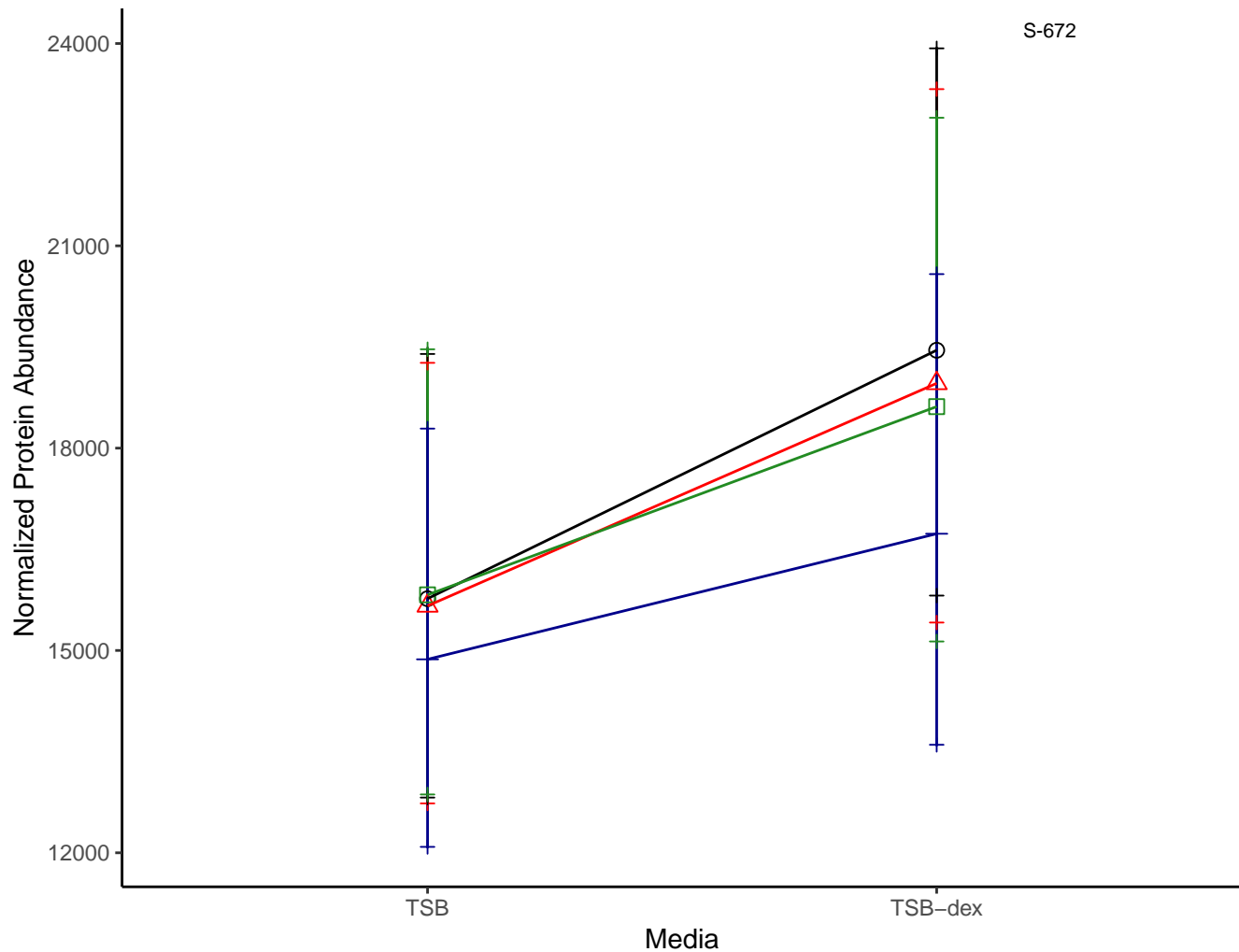
S-671



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IF1\_STAAM

S-672

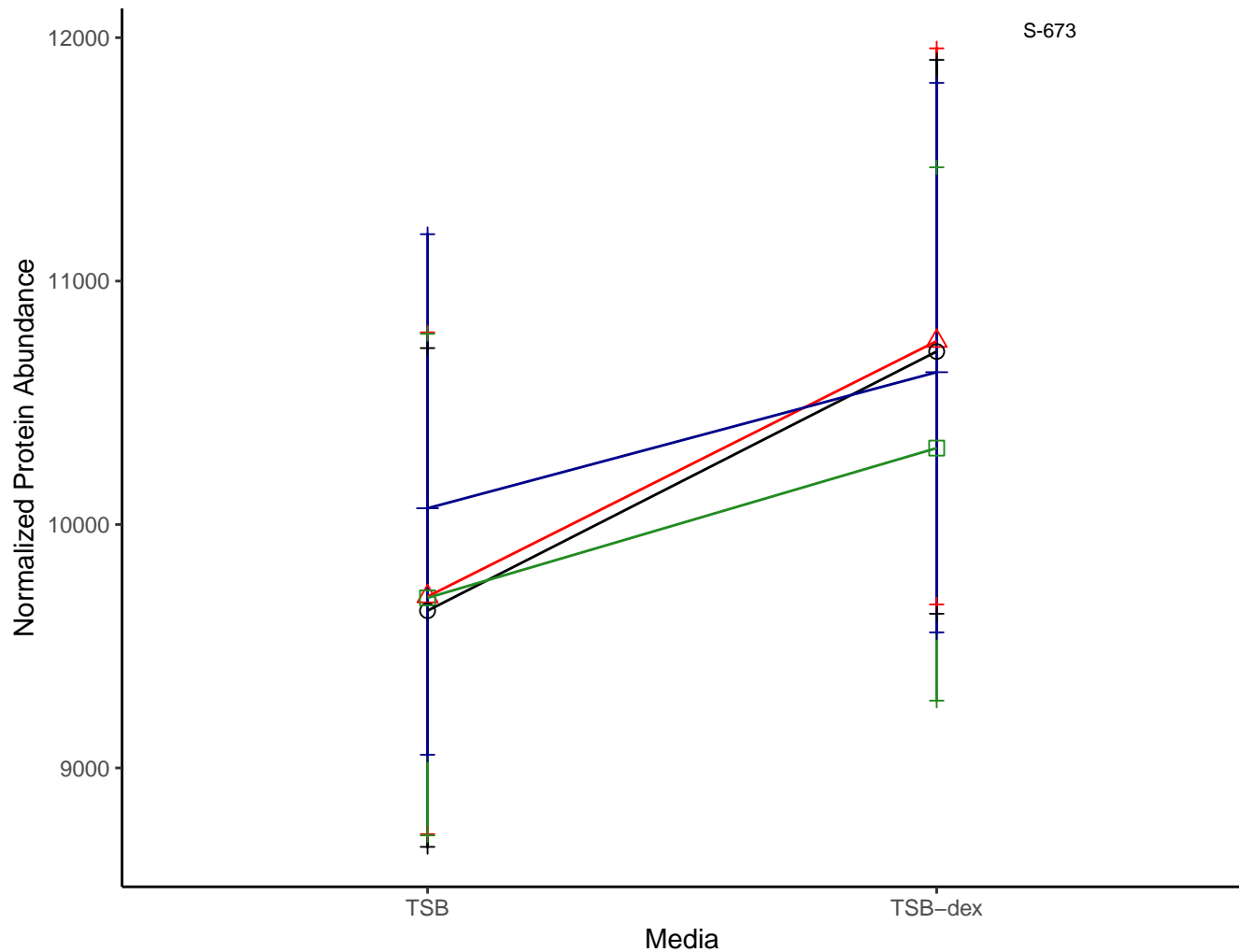


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# IF2\_STAAM

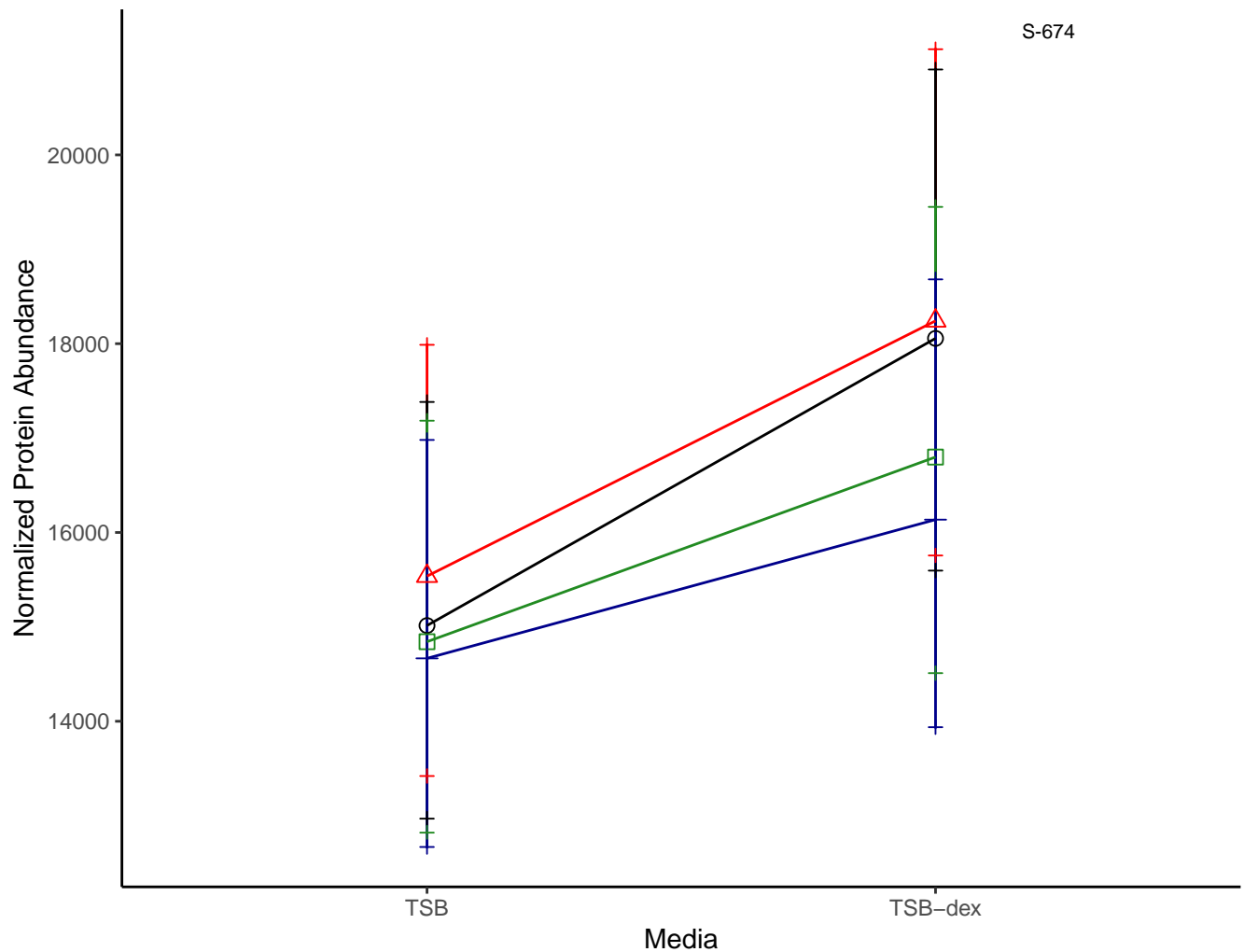
S-673



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# IF3\_STAAM

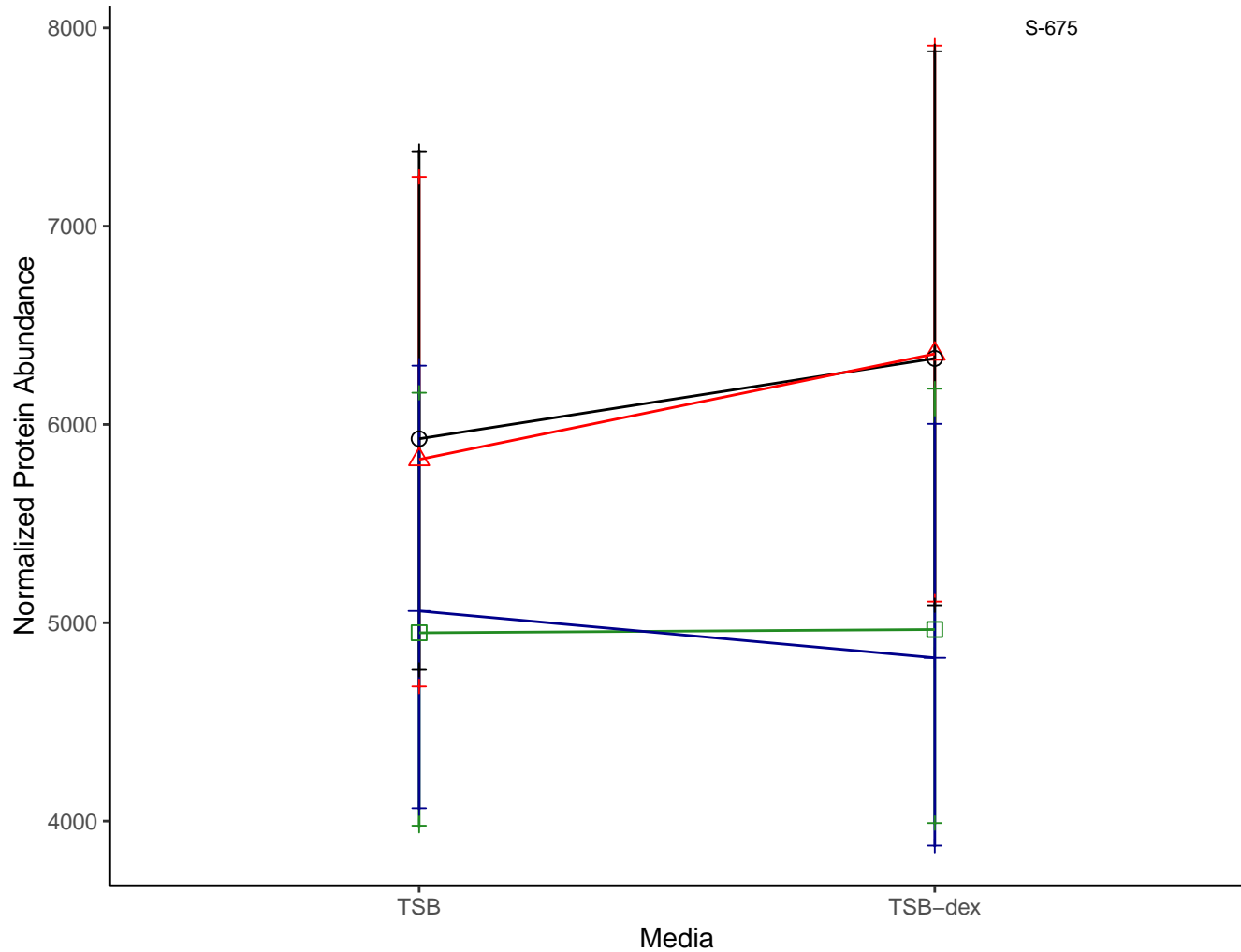
S-674



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ILVC\_STAAM

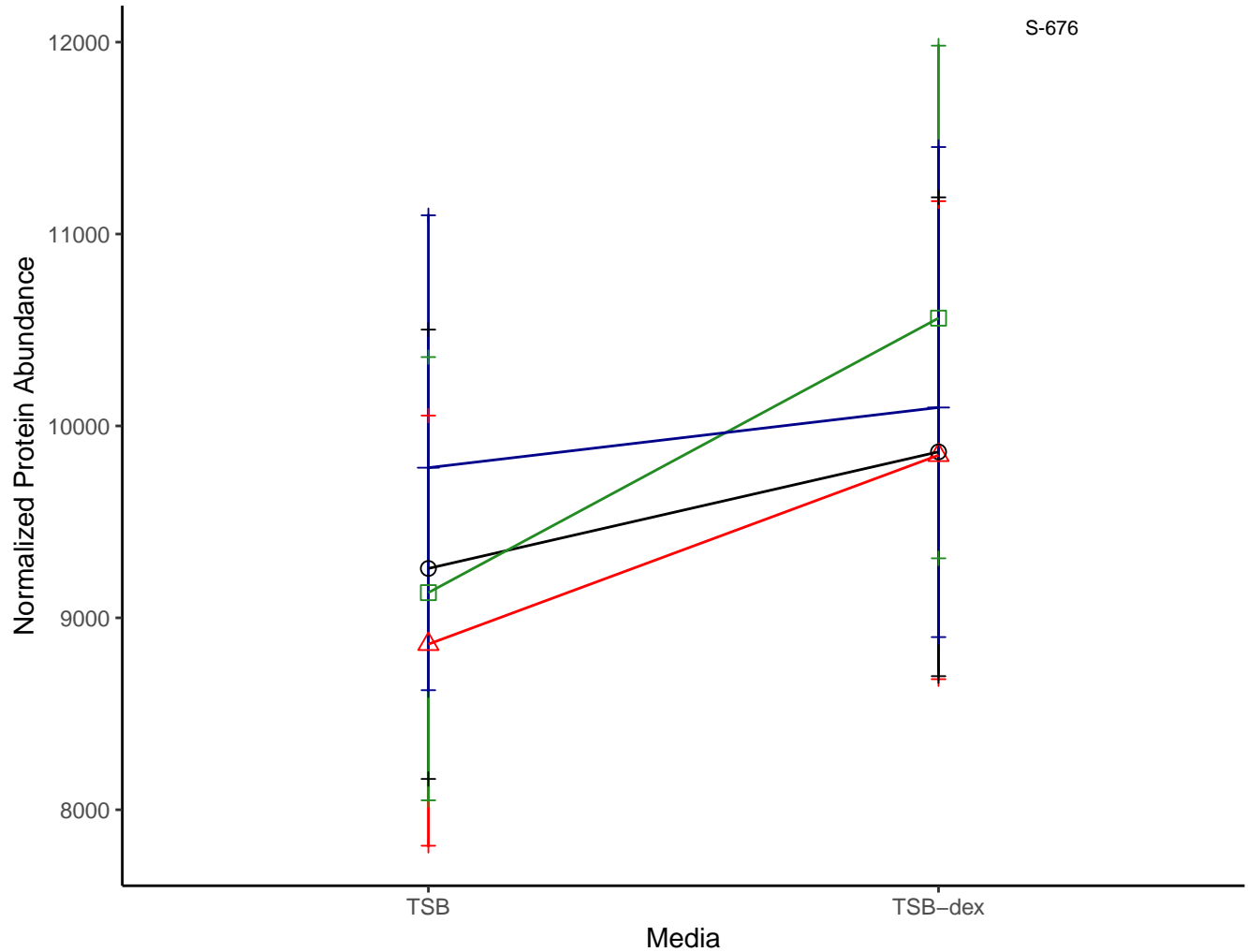
S-675



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ILVE\_STAAM

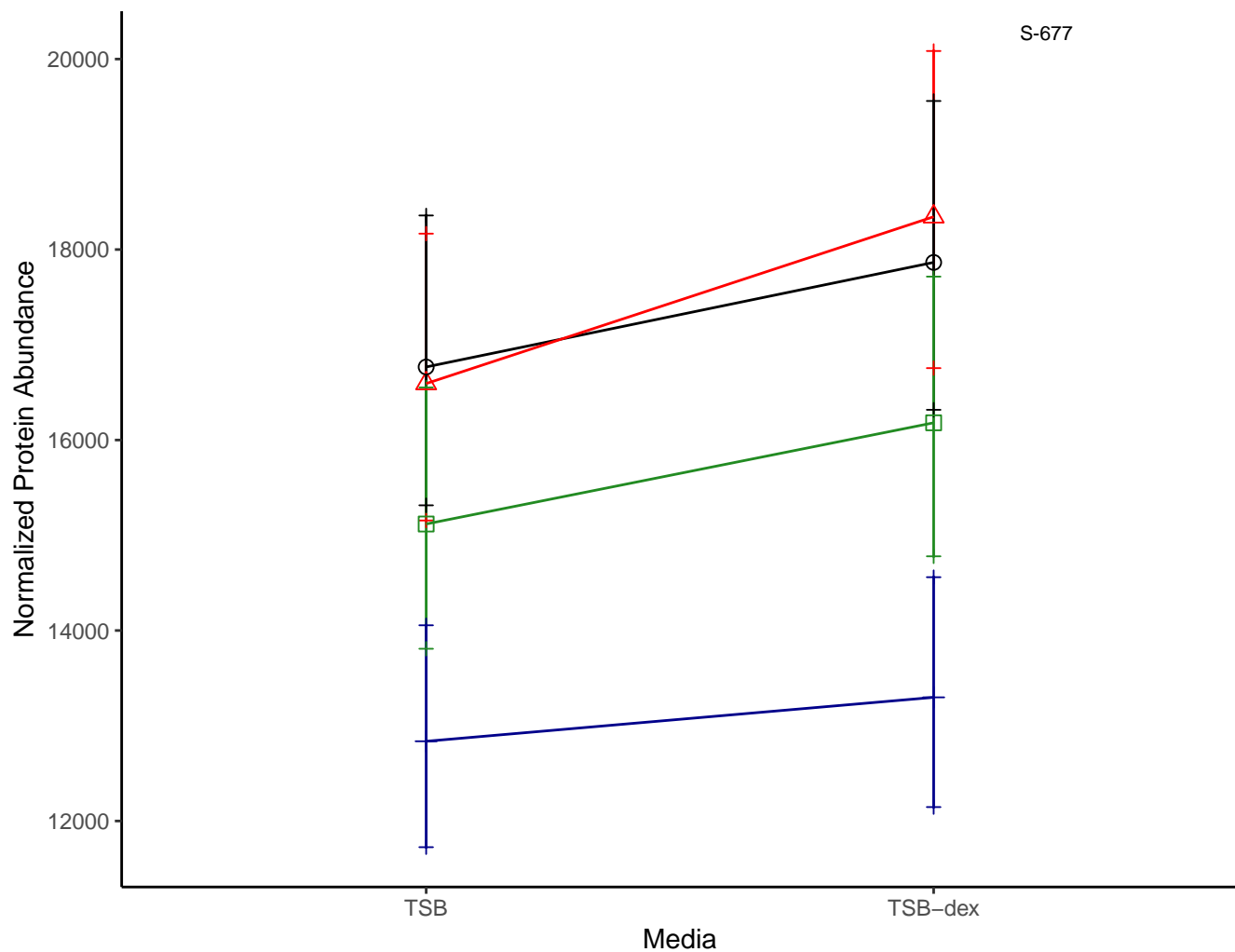
S-676



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# IMDH\_STAAM

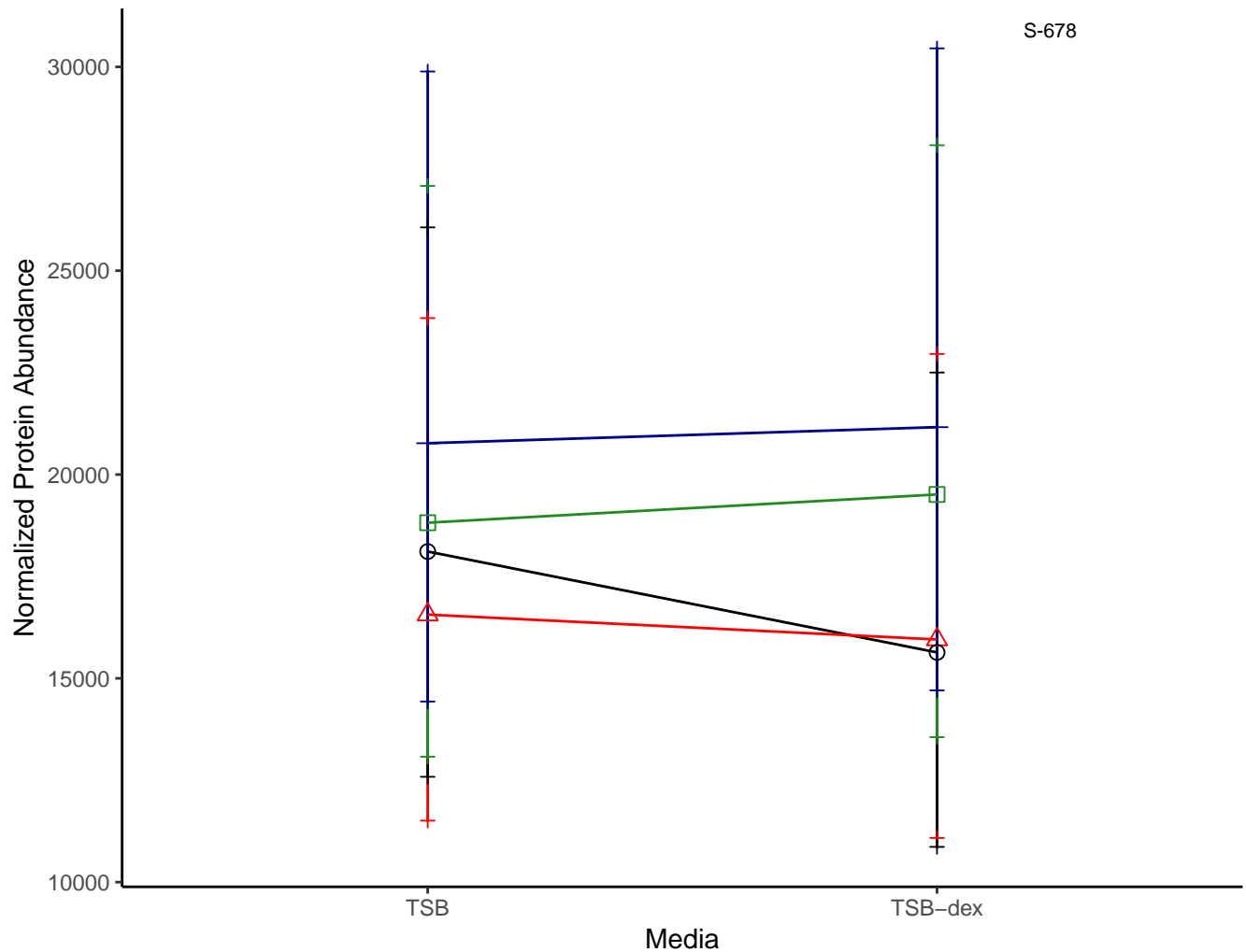
S-677



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ISAA\_STAAM

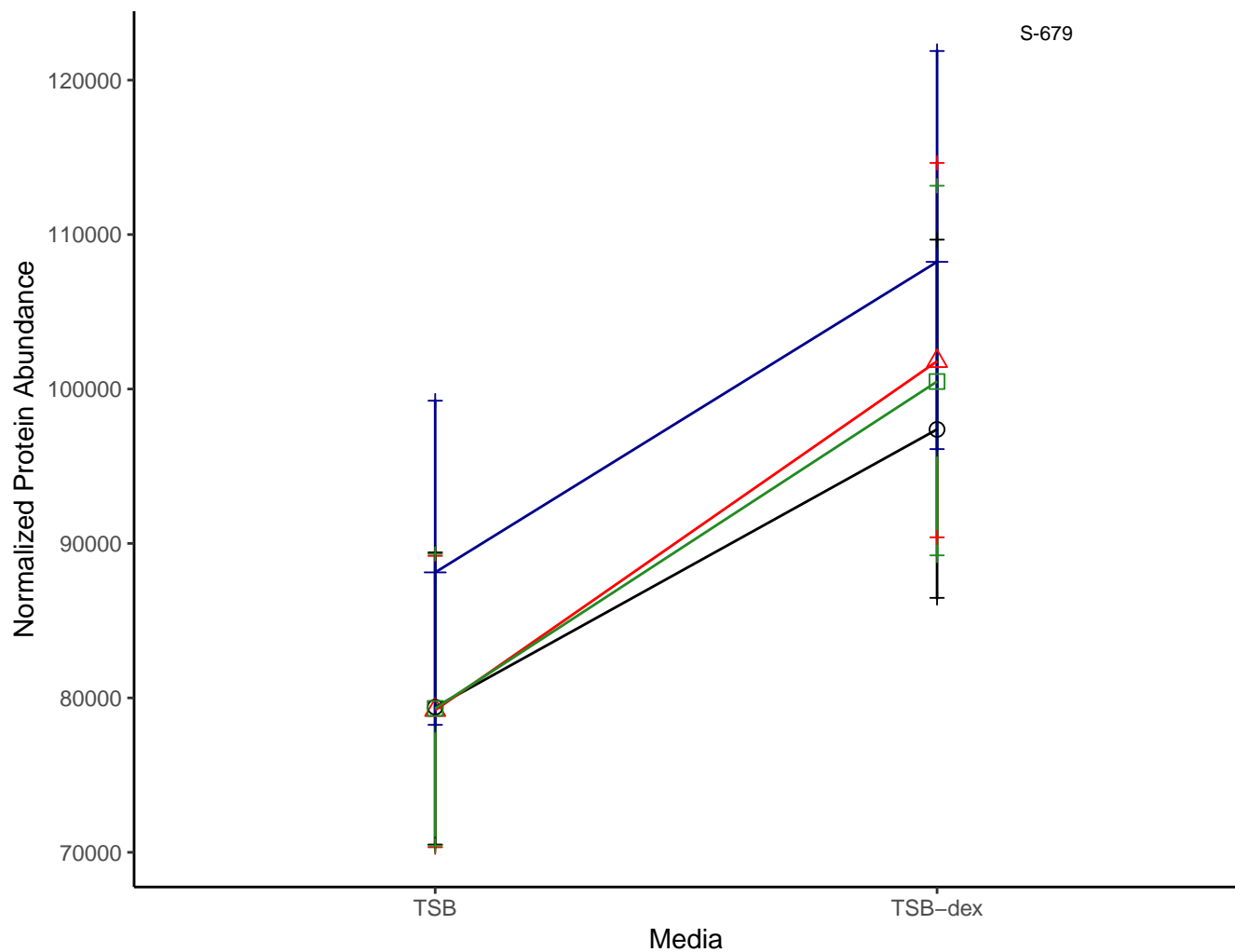
S-678



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ISPD1\_STAAM

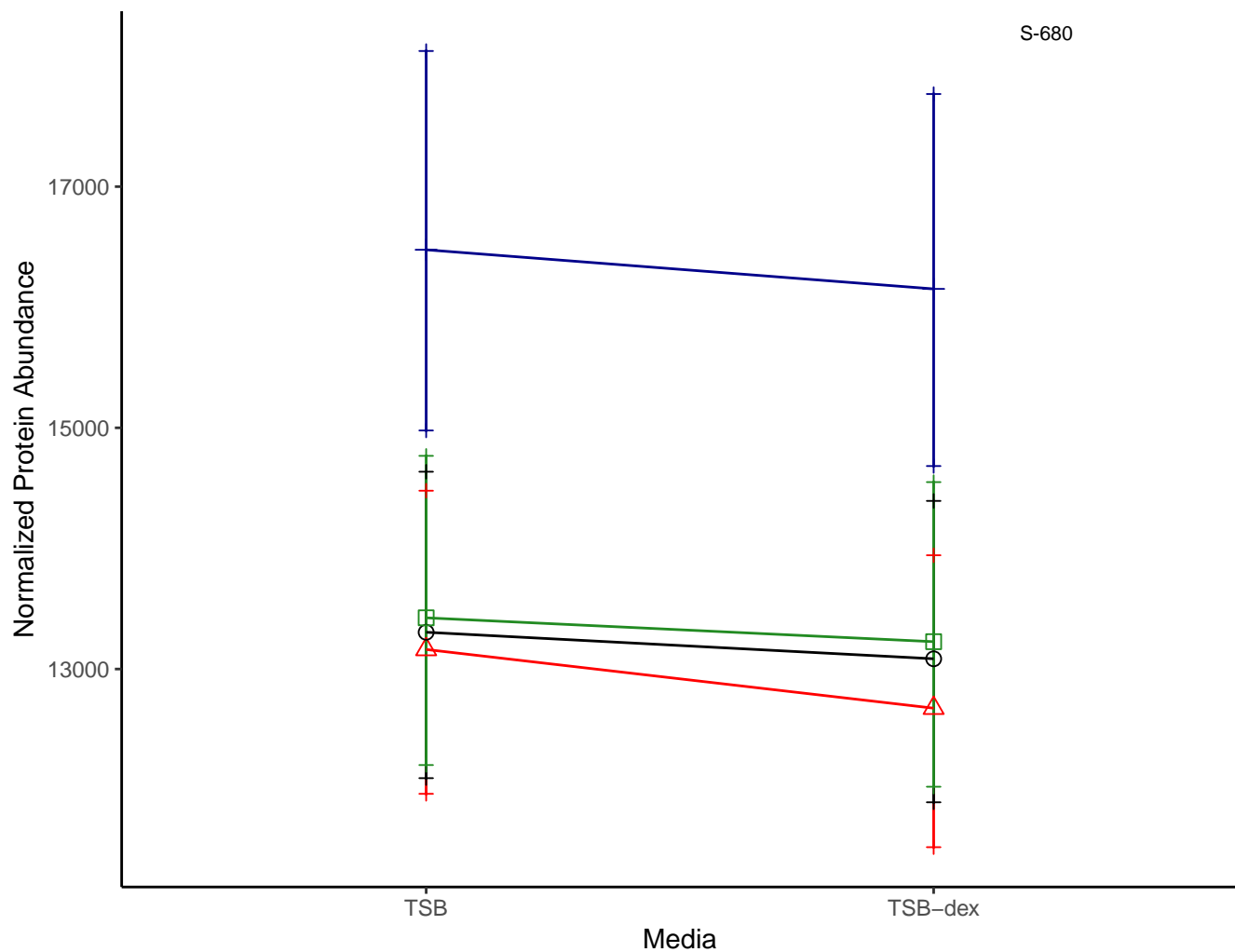
S-679



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## ISPD2\_STAAM

S-680

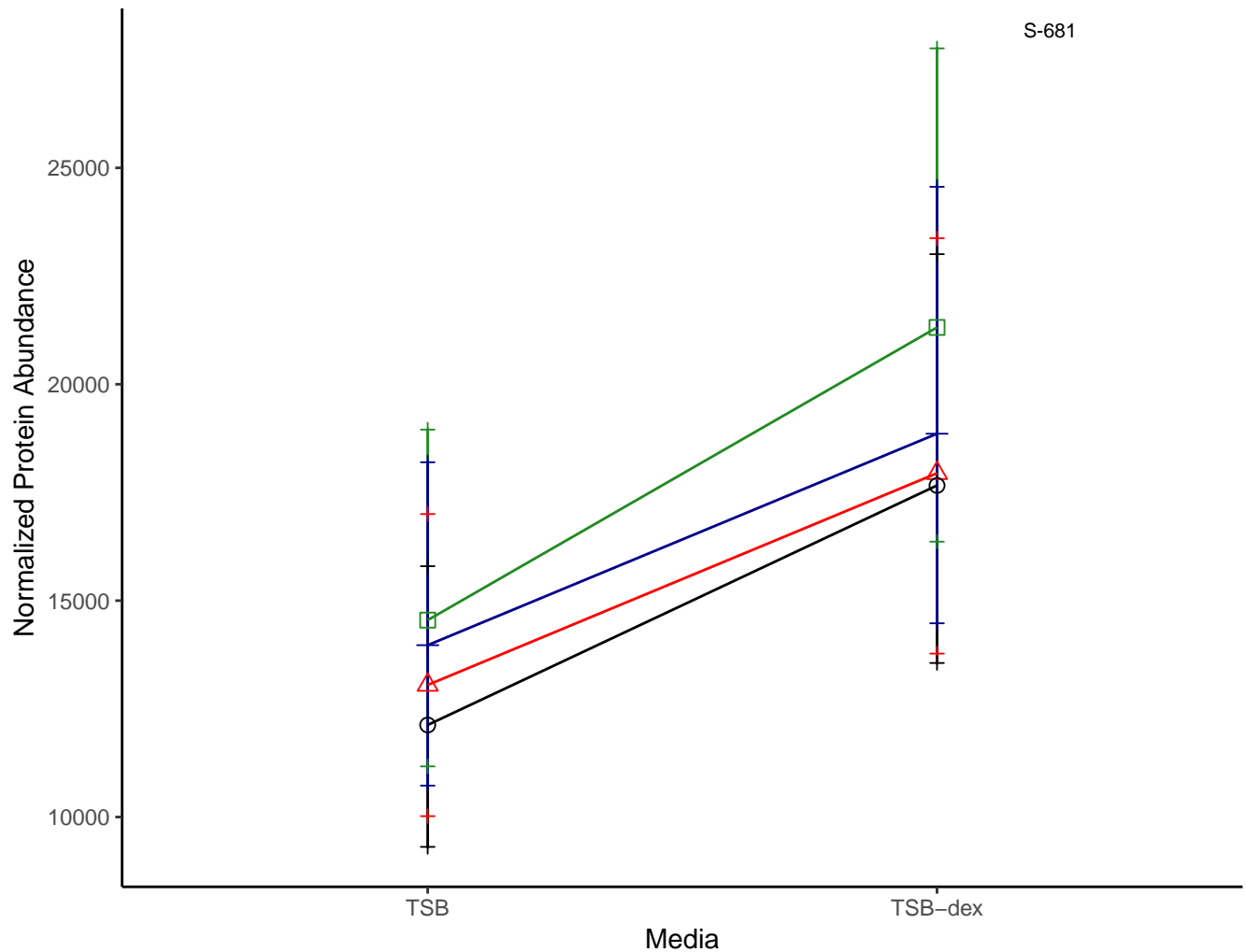


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ISPE\_STAAM

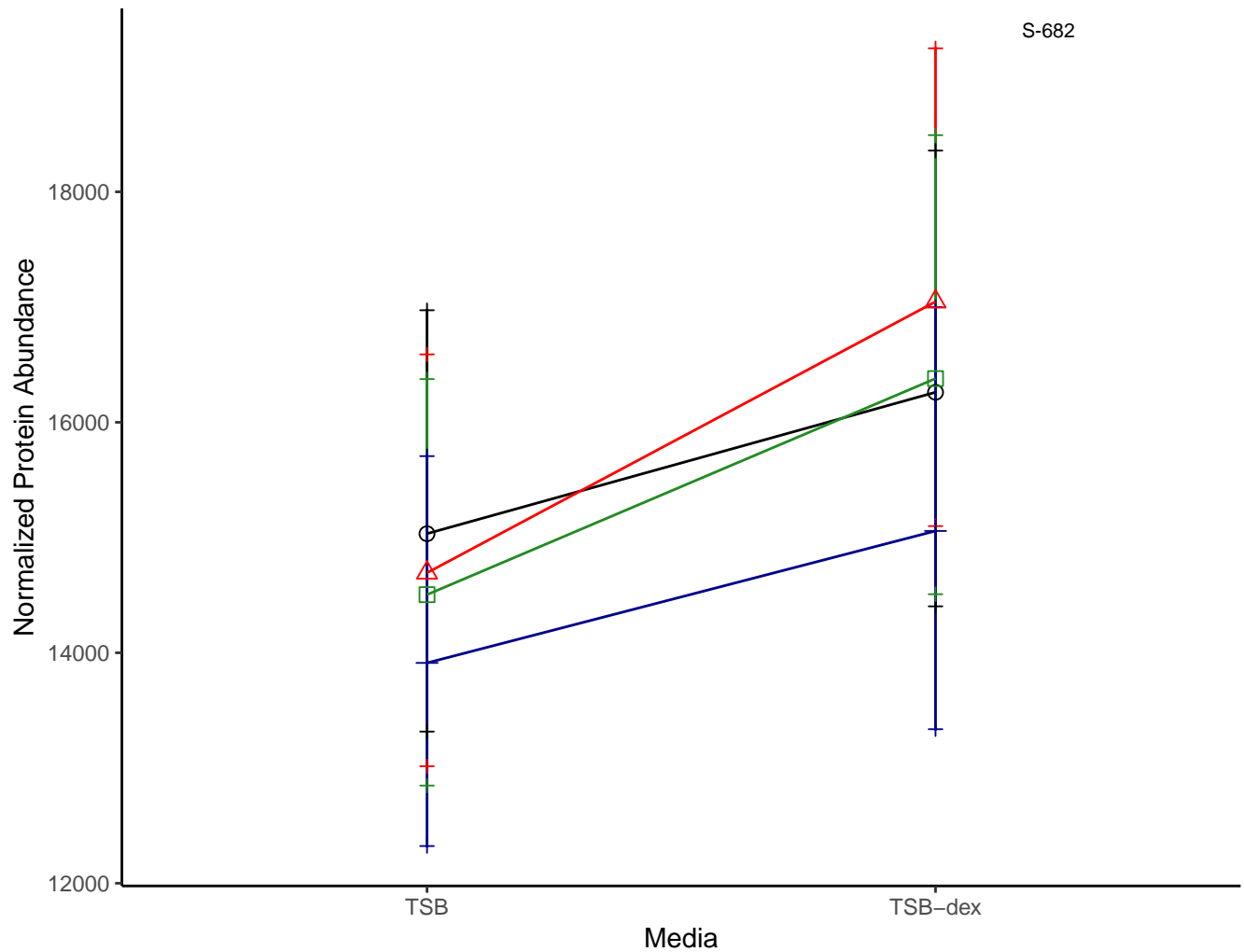
S-681



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KAD\_STAAM

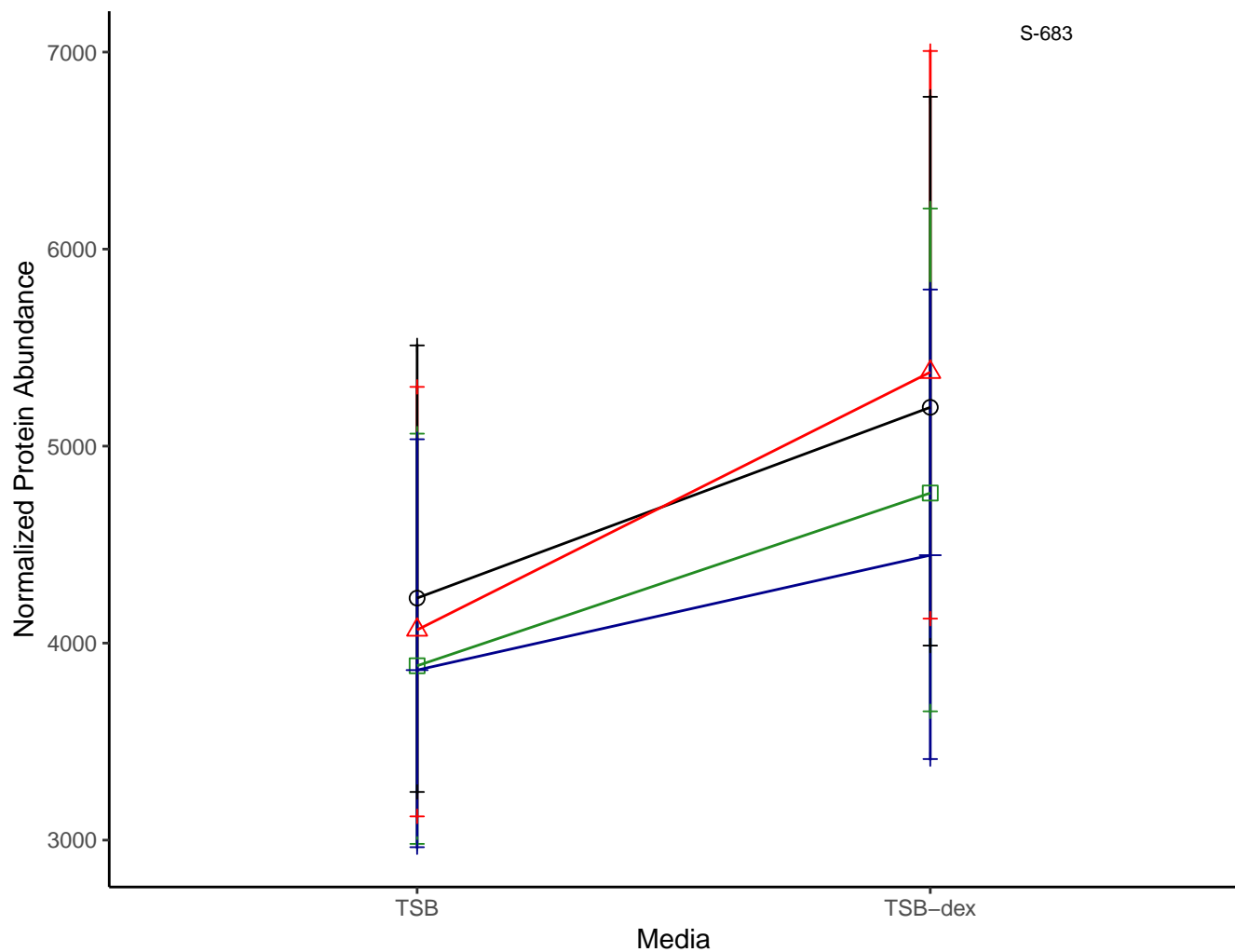
S-682



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KCY\_STAAM

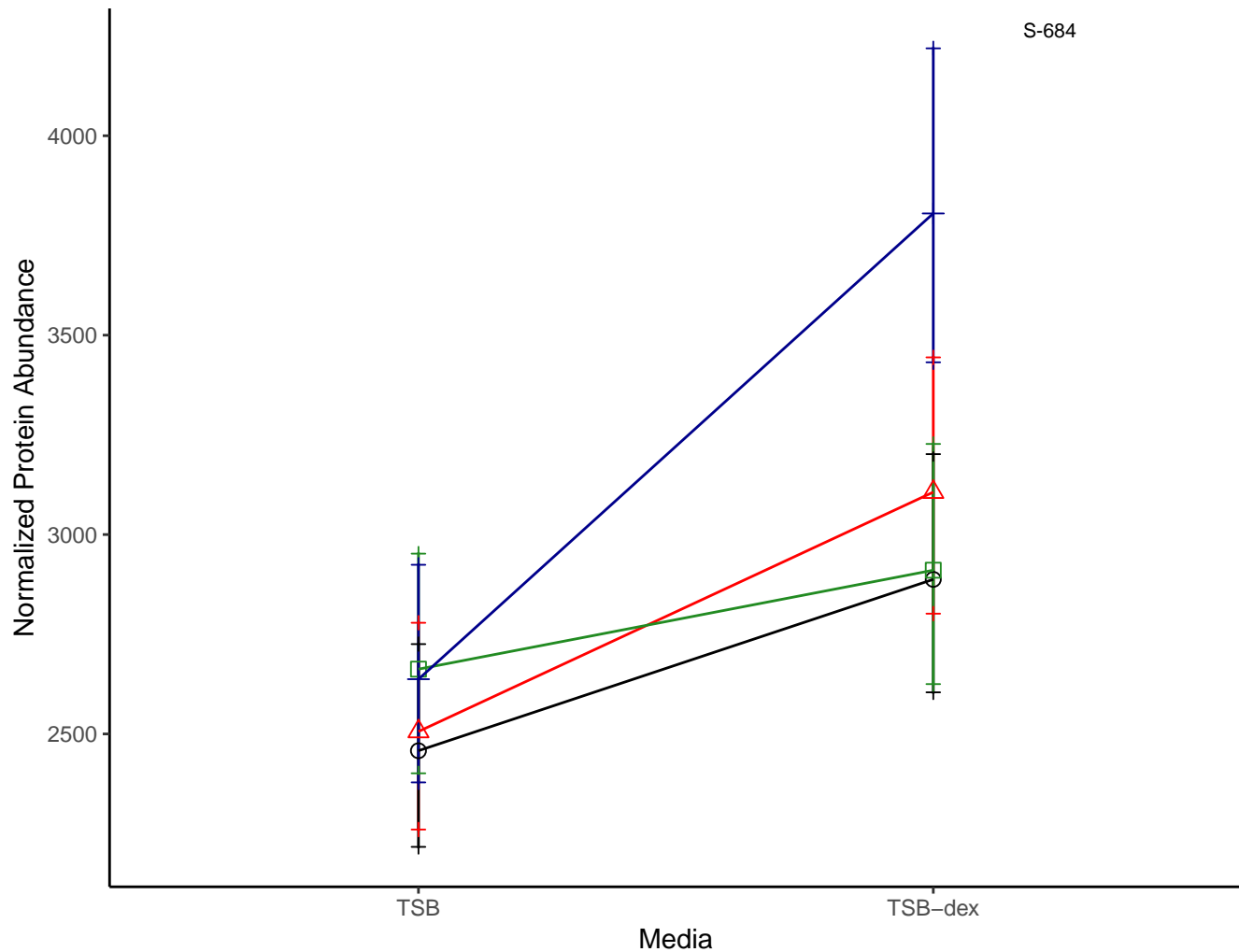
S-683



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KITH\_STAAM

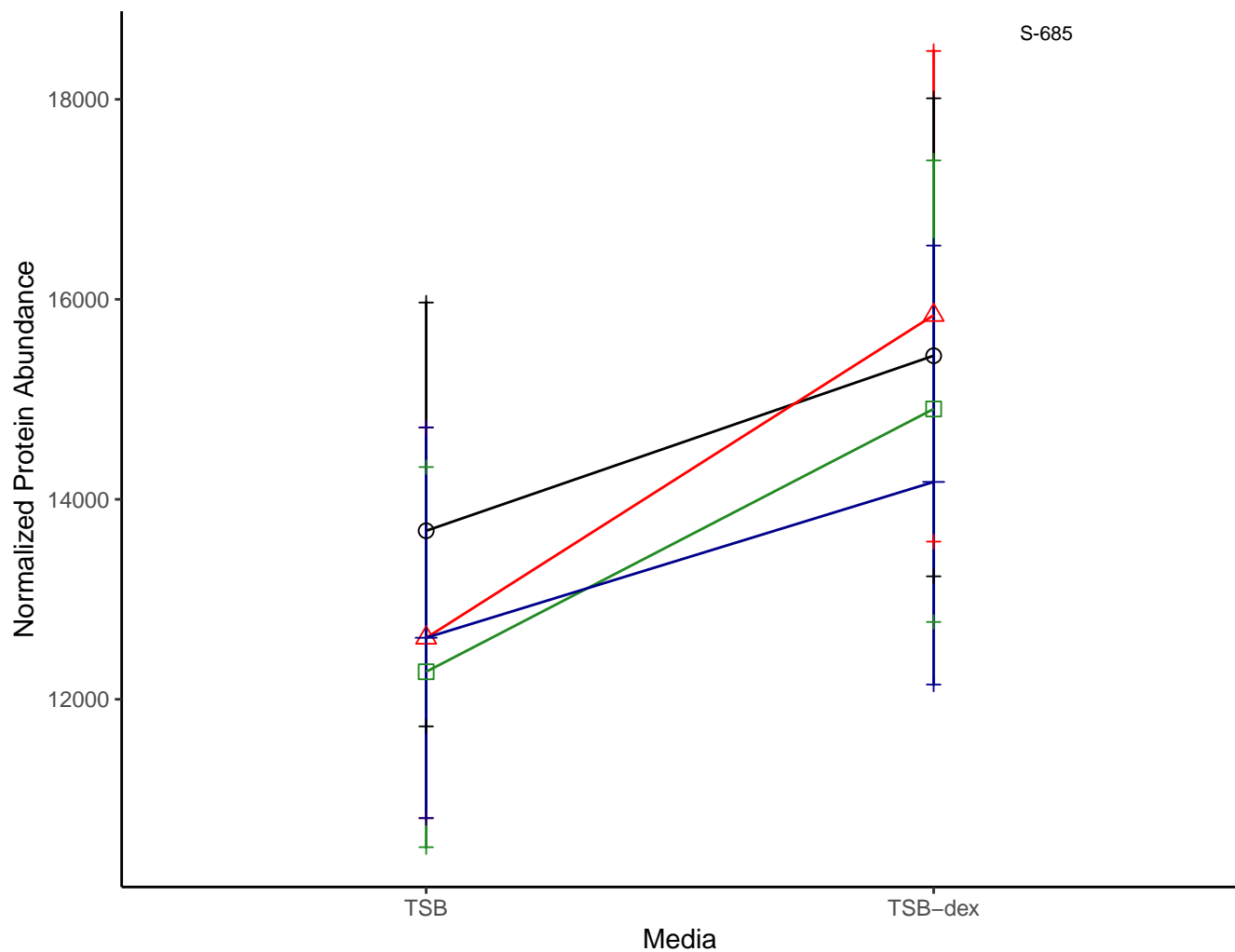
S-684



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KPRS\_STAAM

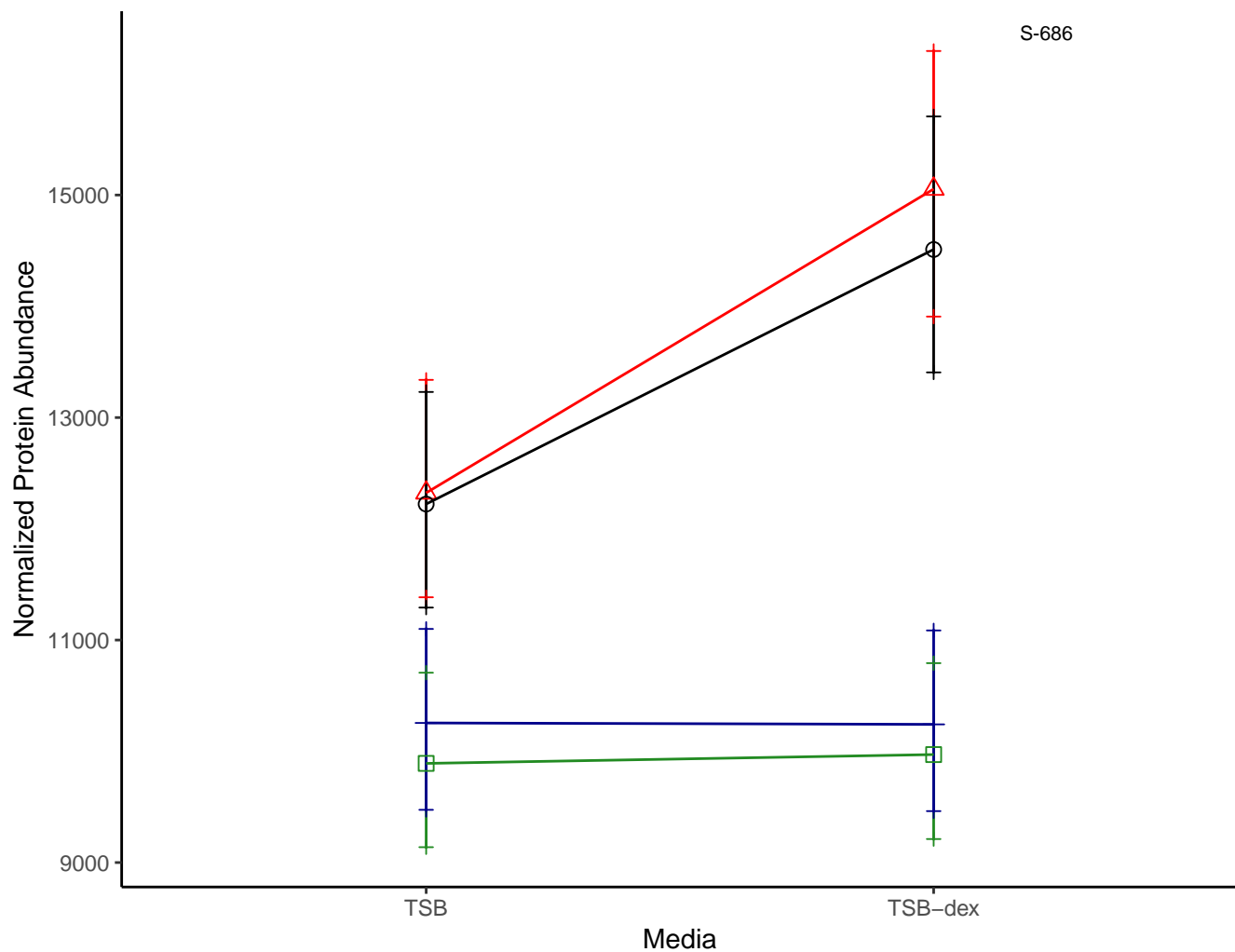
S-685



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# KPYK\_STAAM

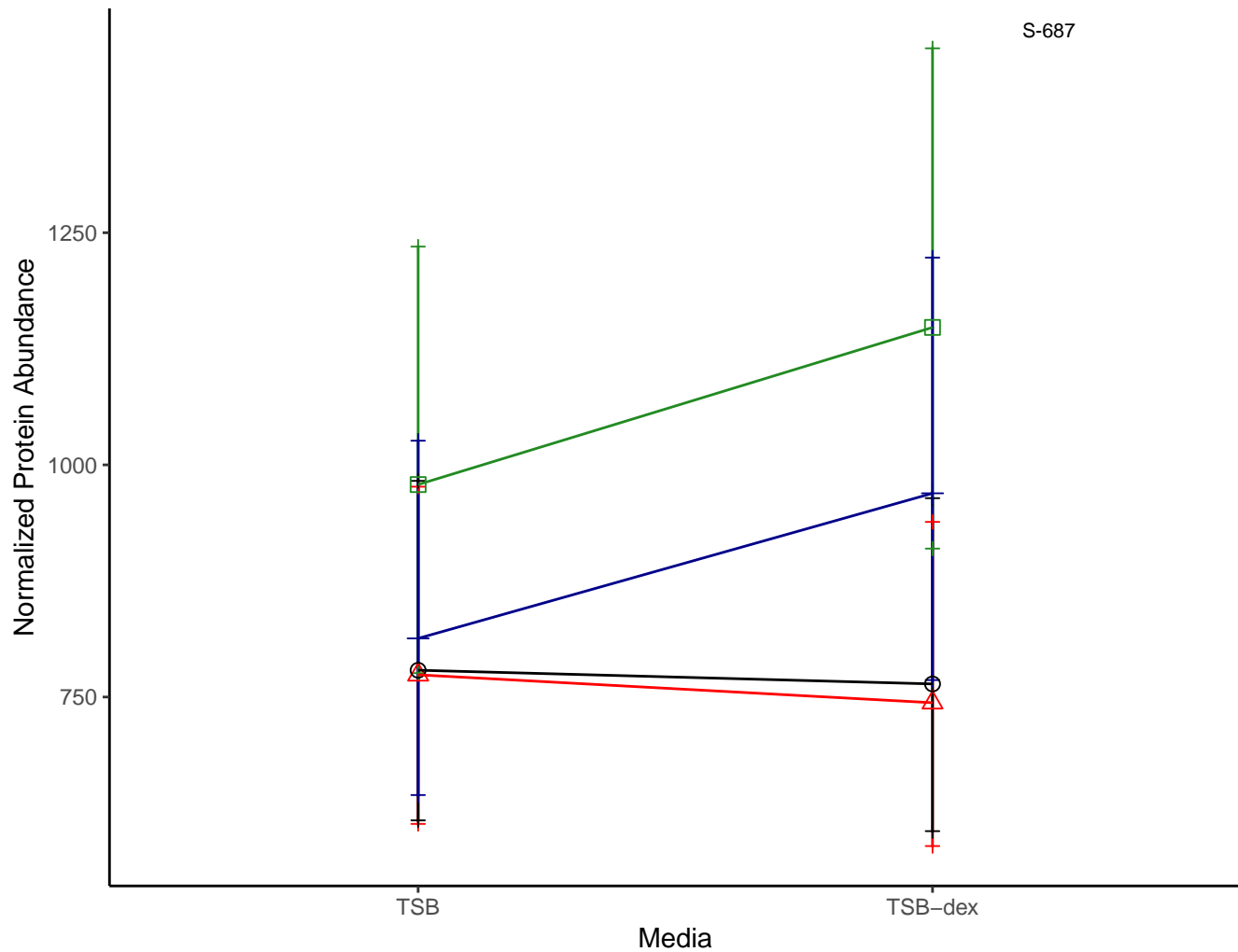
S-686



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# KTHY\_STAAM

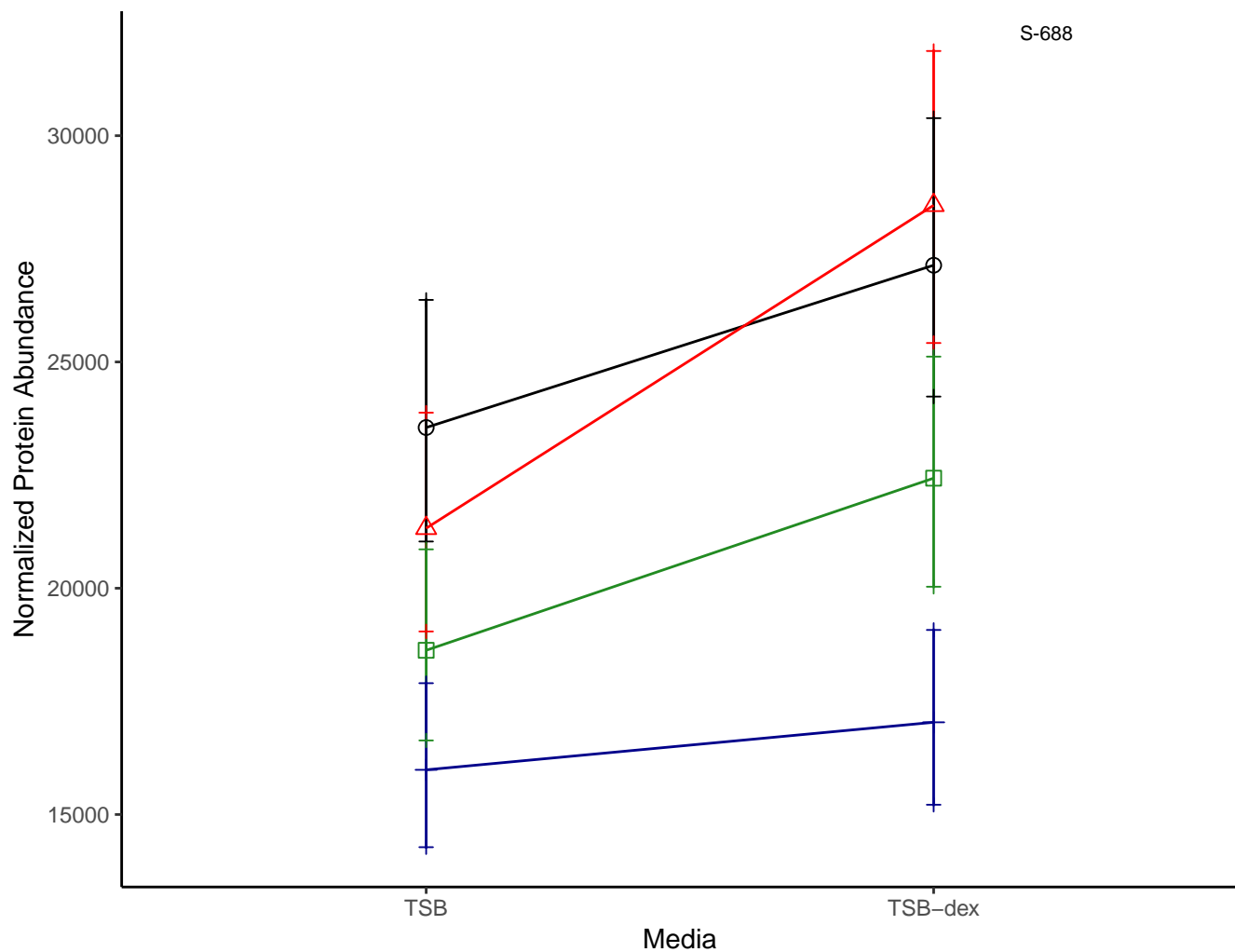
S-687



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# LACA\_STAAM

S-688

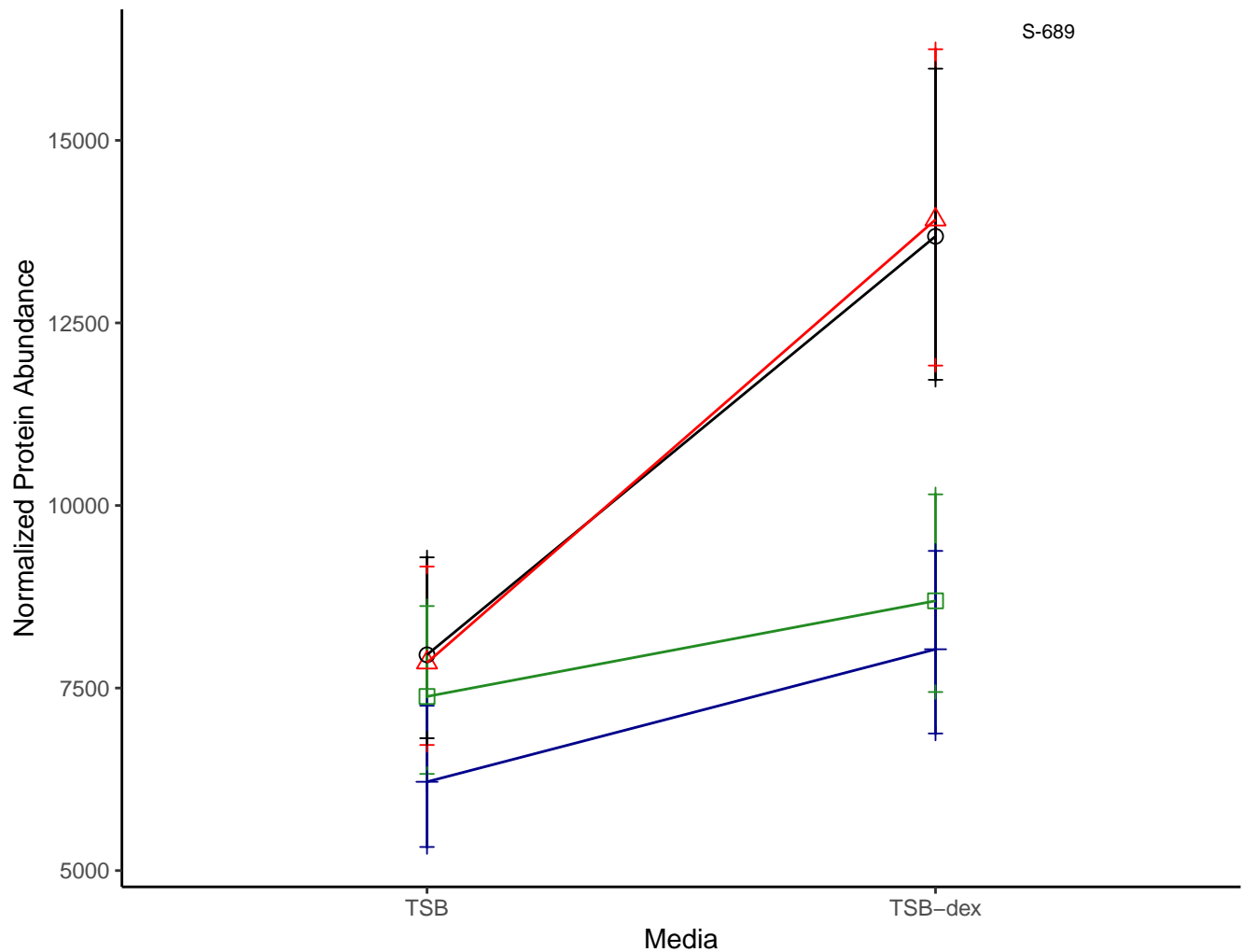


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# LDH1\_STAAM

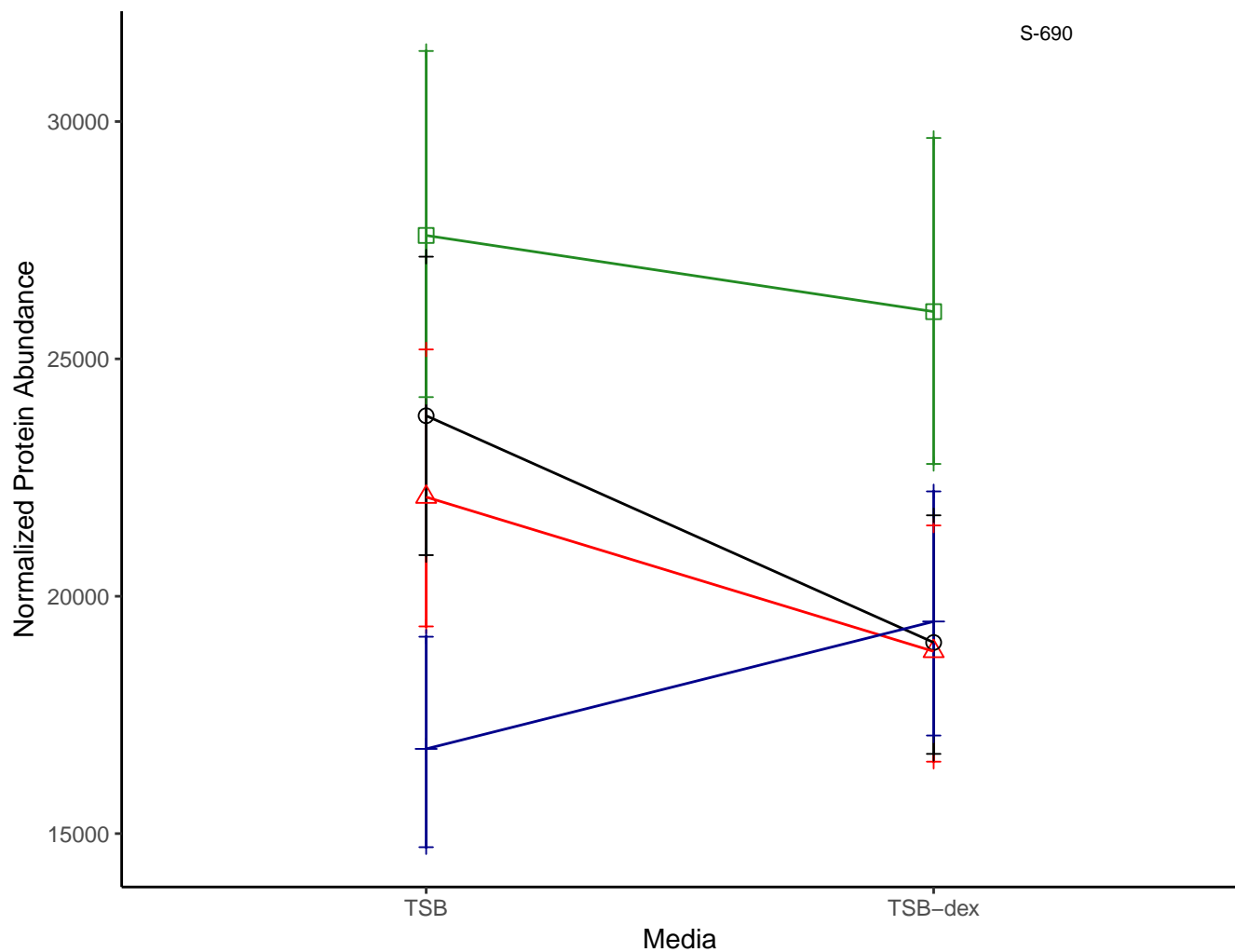
S-689



- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# LDH2\_STAAM

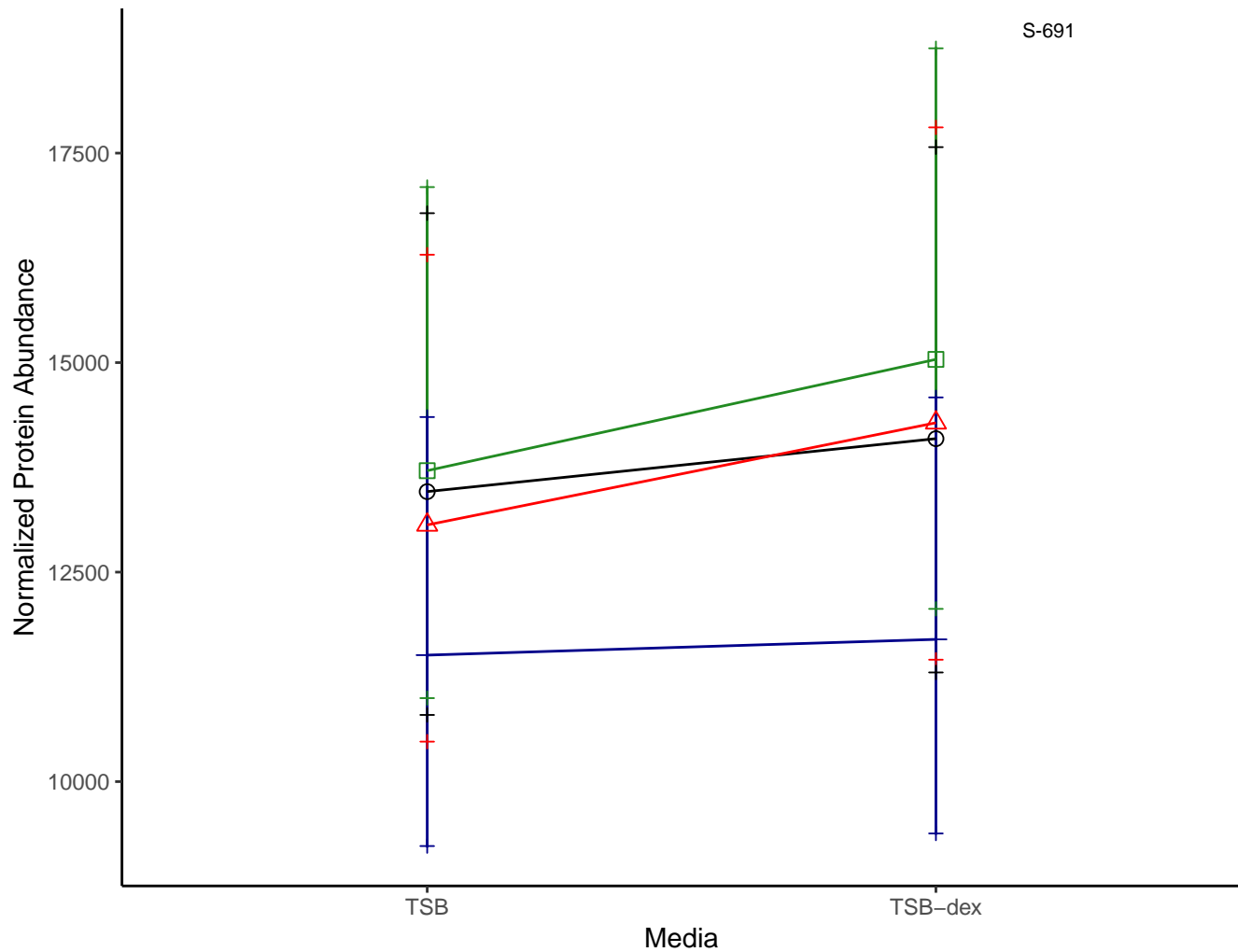
S-690



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## LDHD\_STAAM

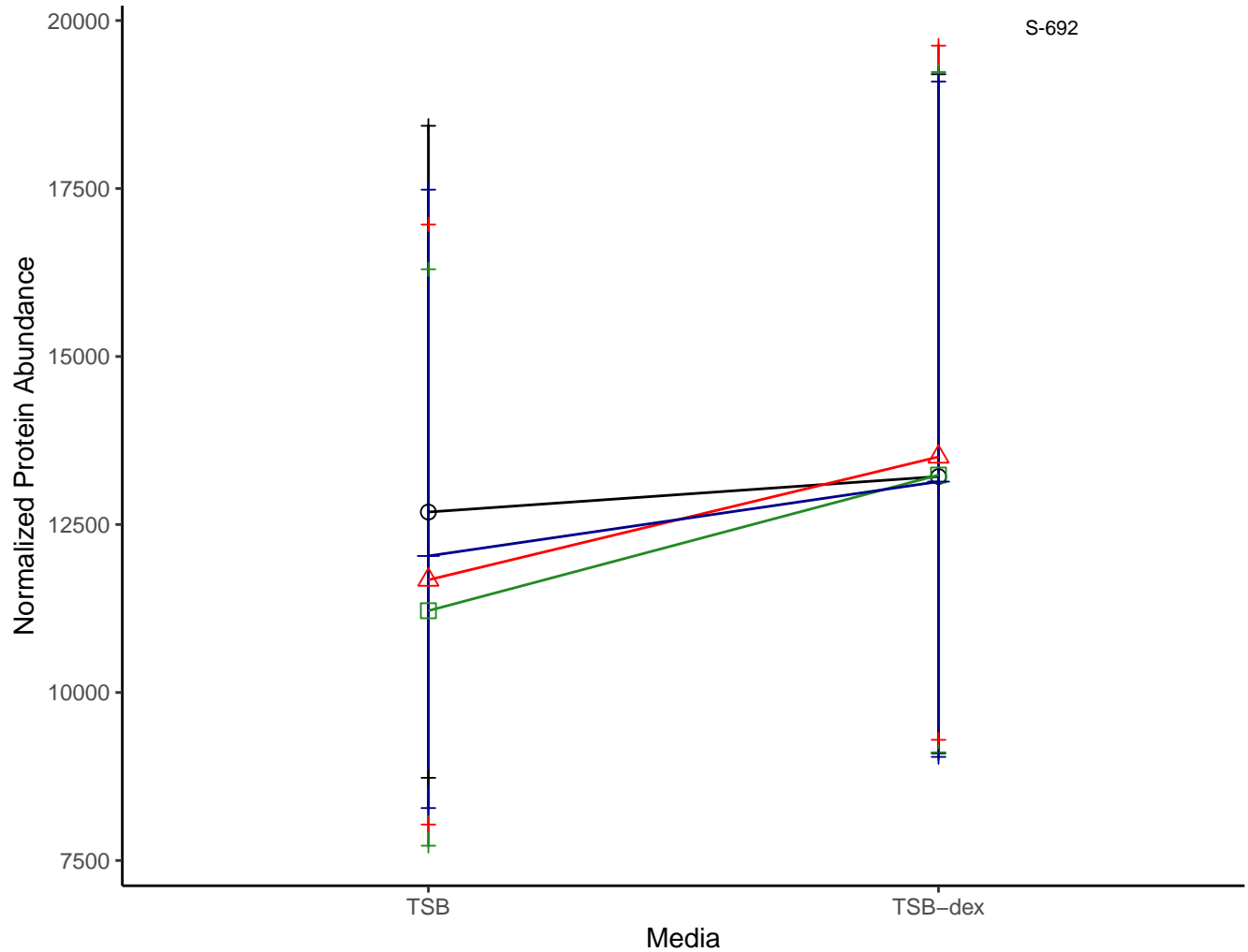
S-691



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# LEP\_STAAM

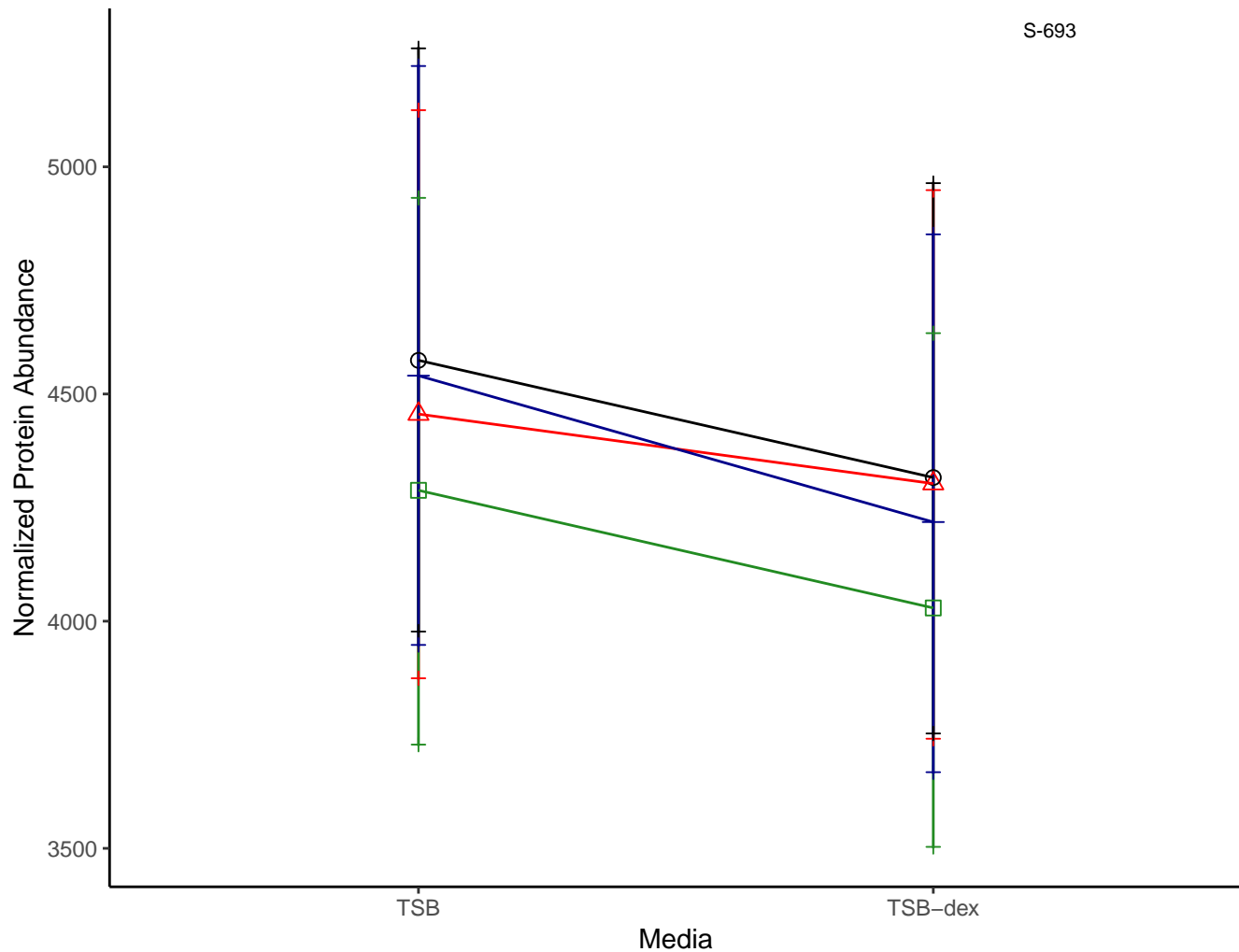
S-692



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# LEPA\_STAAM

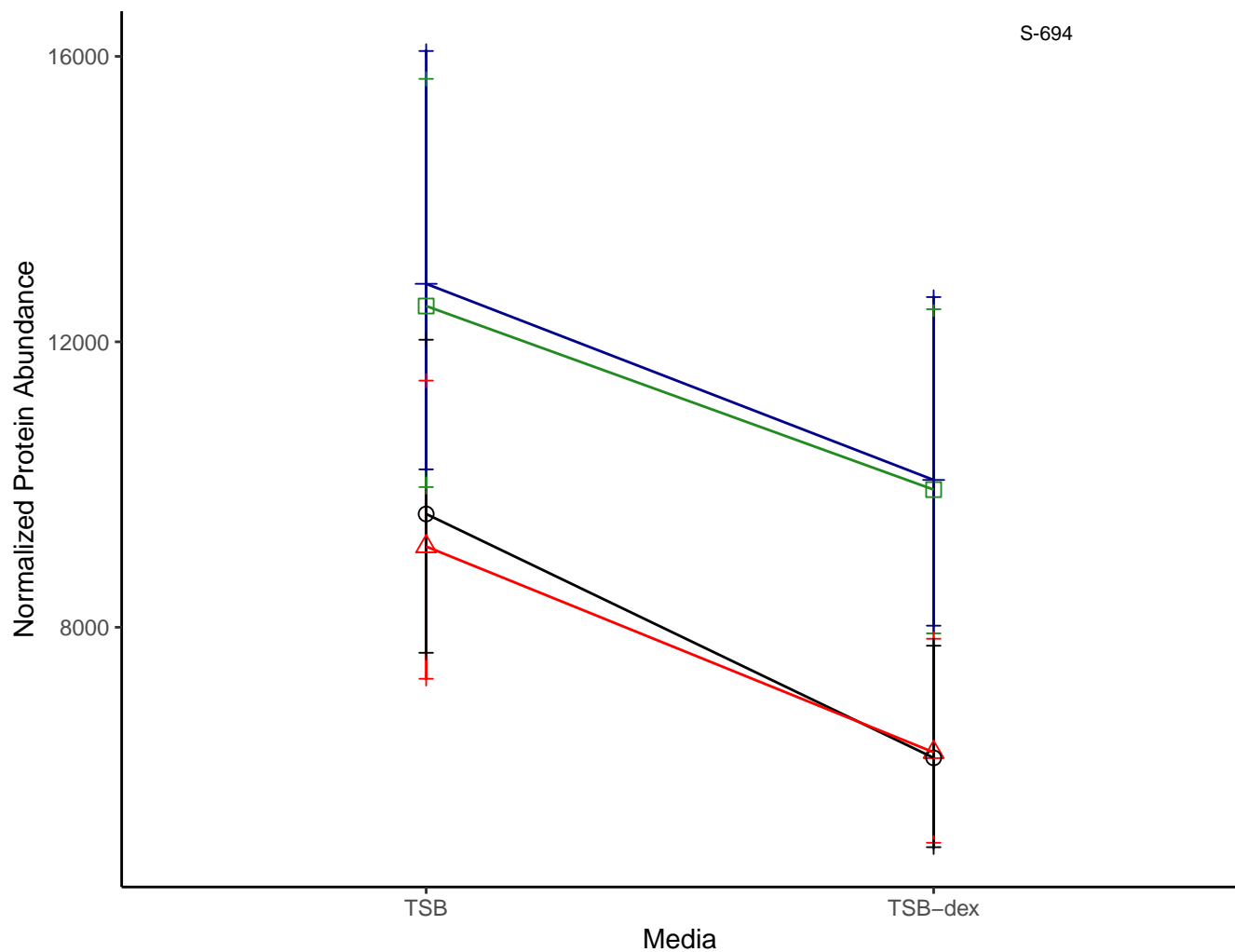
S-693



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LEU1\_STAAM

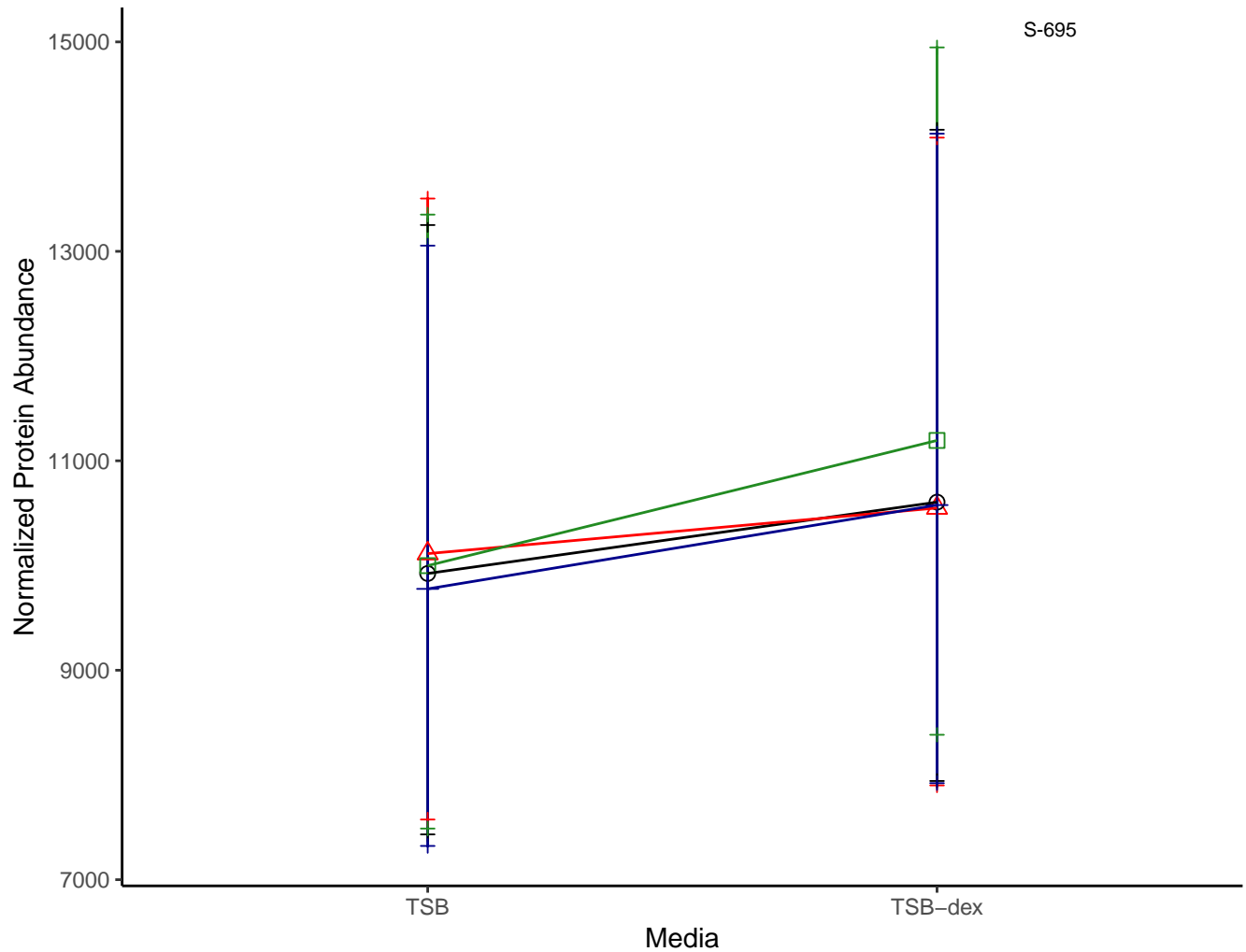
S-694



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LIPA\_STAAM

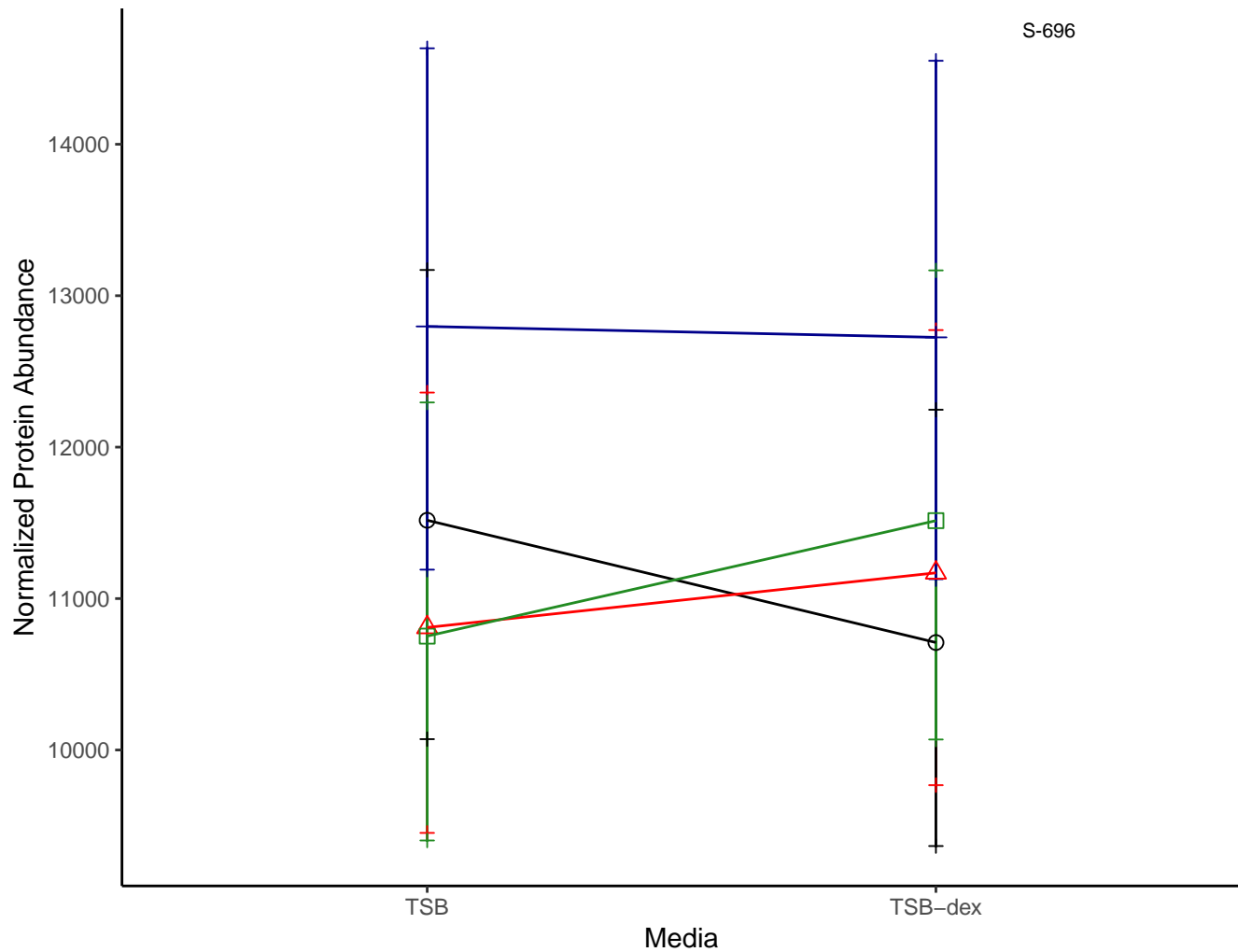
S-695



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# LUXS\_STAAM

S-696

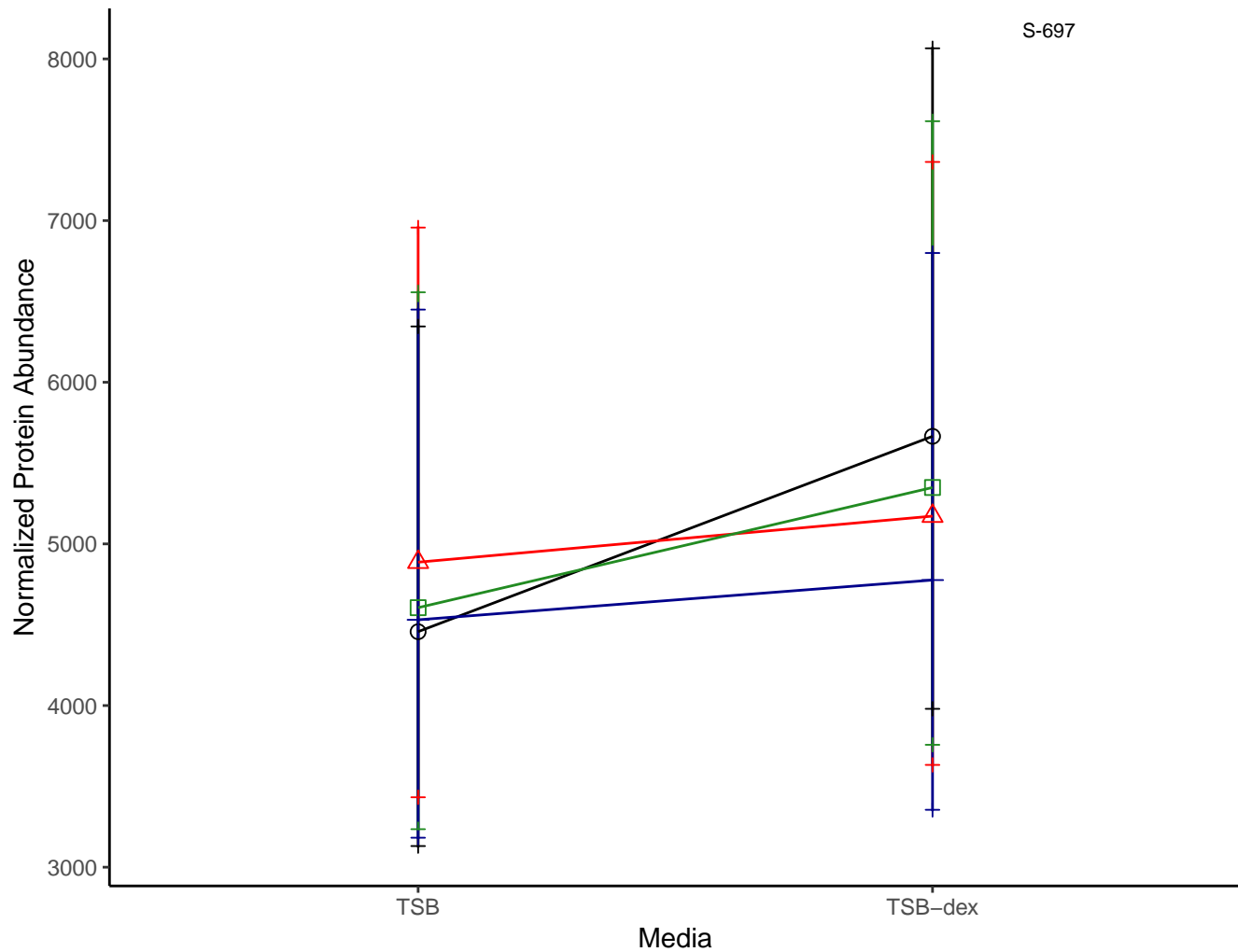


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# LYTH\_STAAM

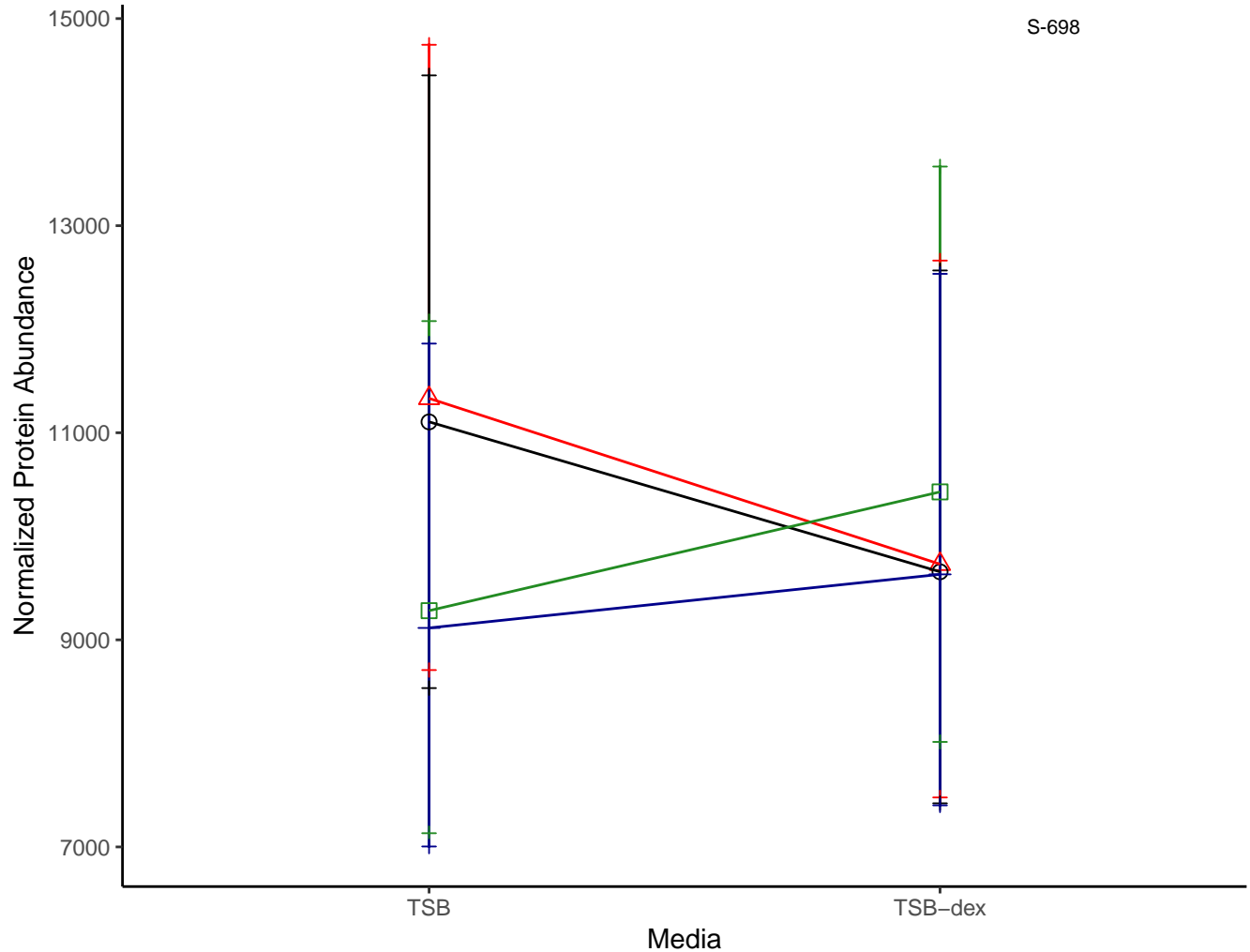
S-697



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LYTN\_STAAM

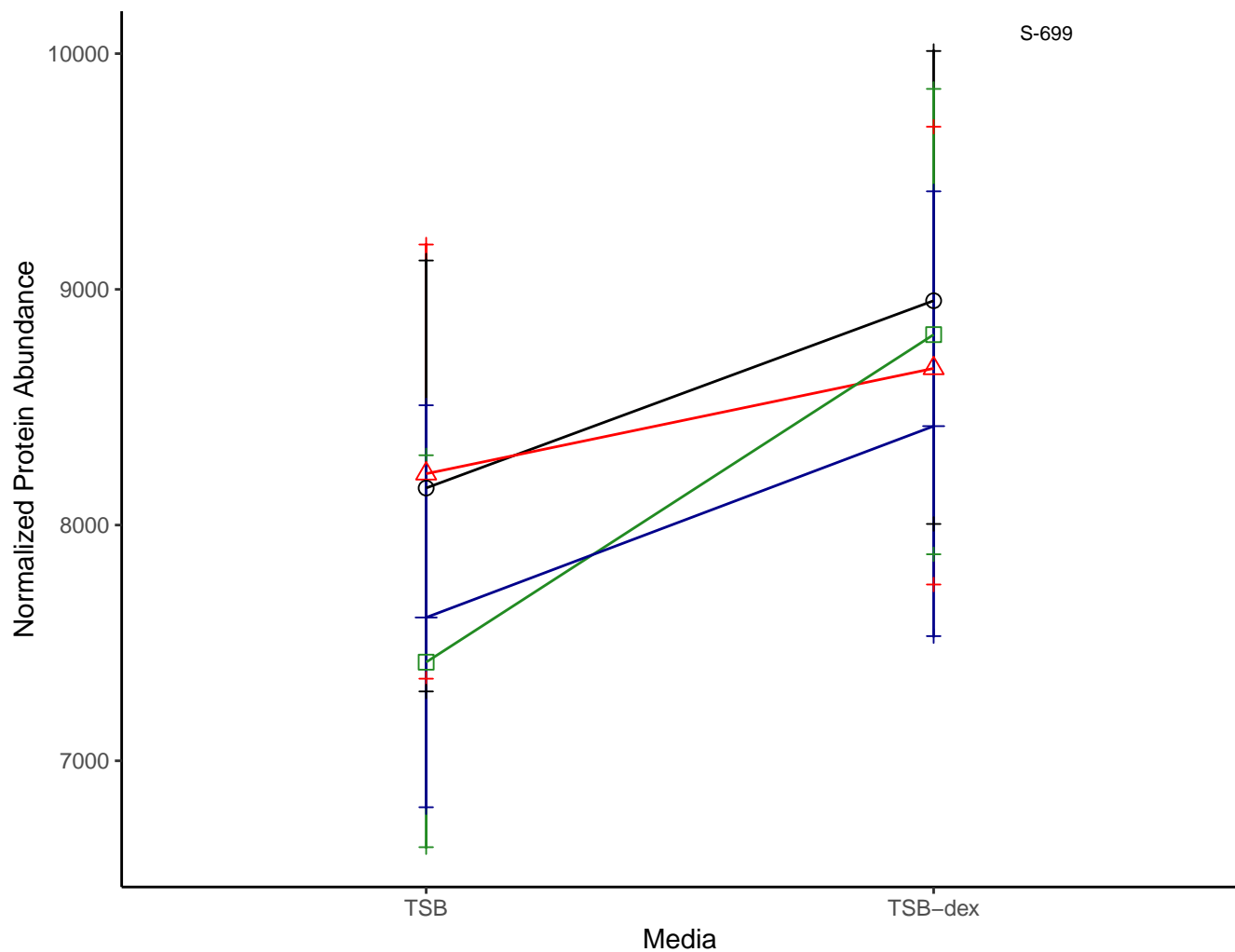
S-698



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MAP\_STAAM

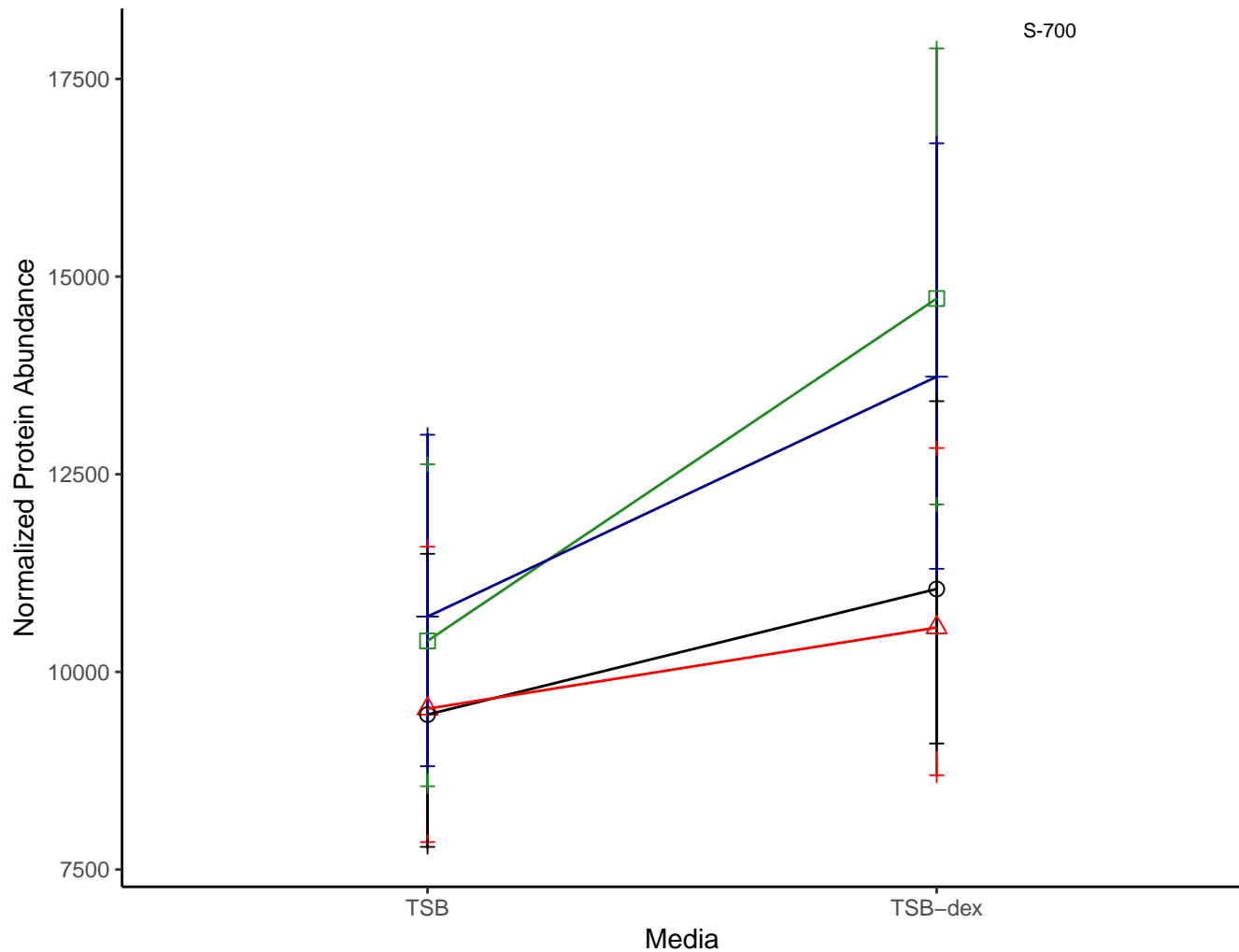
S-699



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MAP1\_STAAM

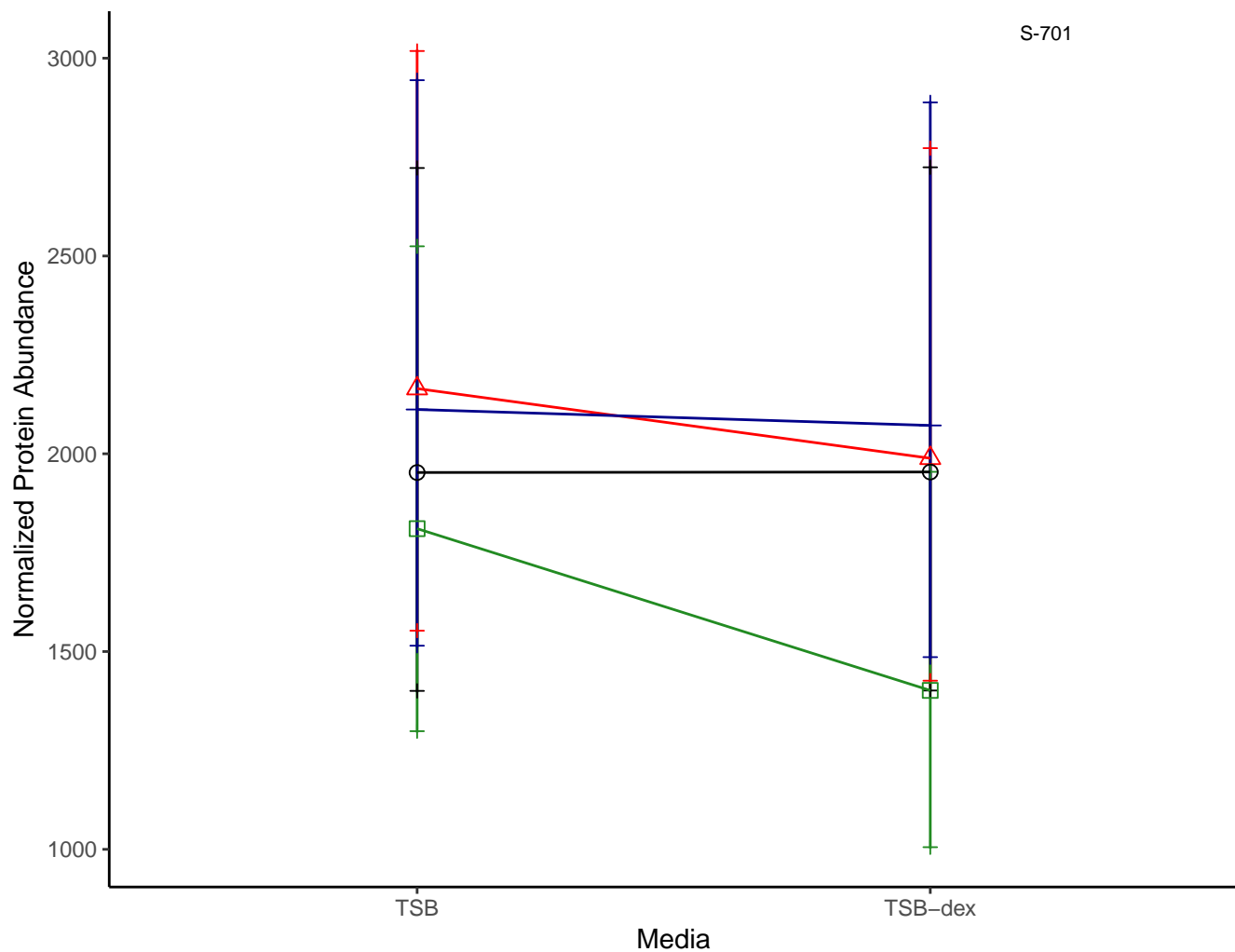
S-700



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MAZF\_STAAM

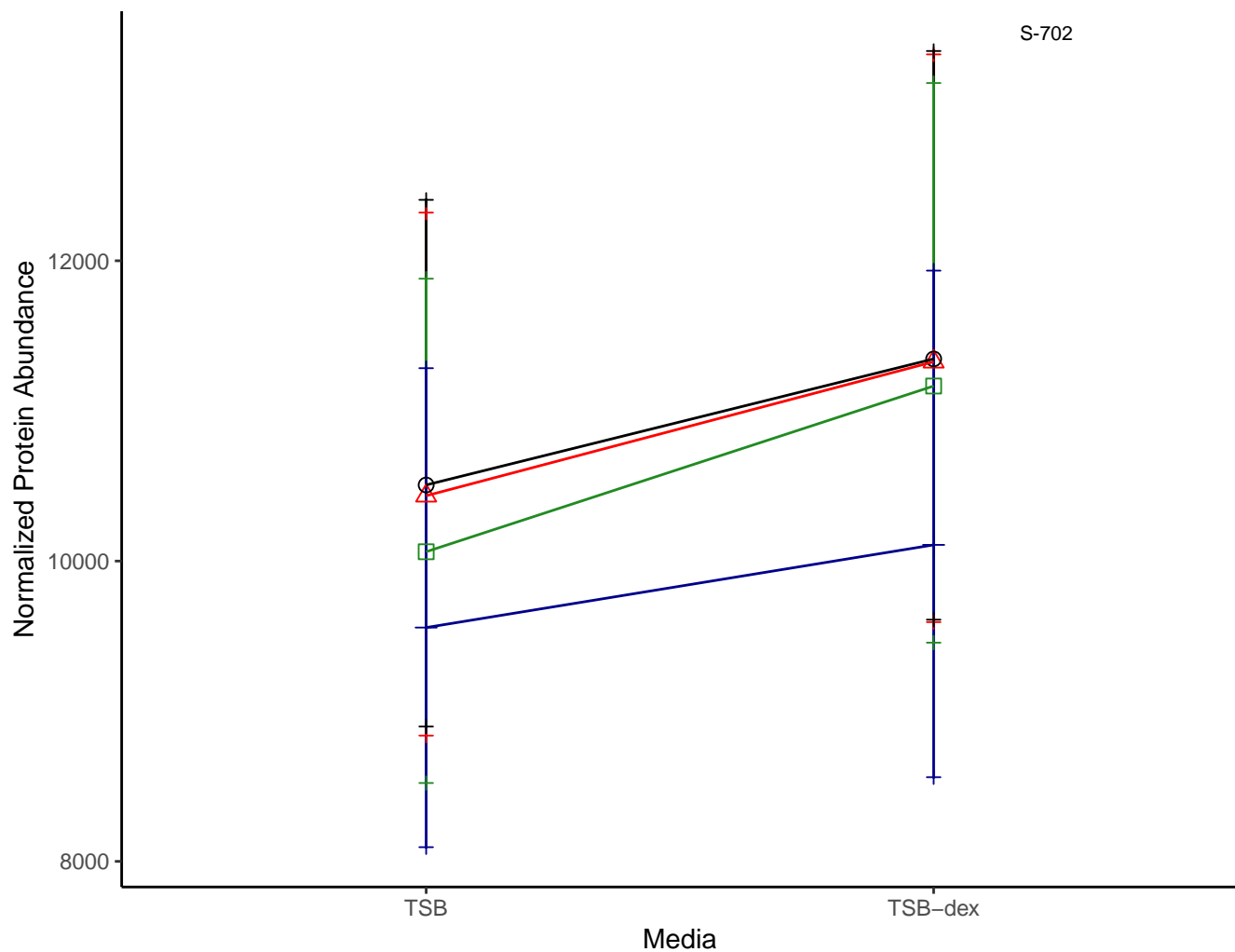
S-701



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MENB\_STAAM

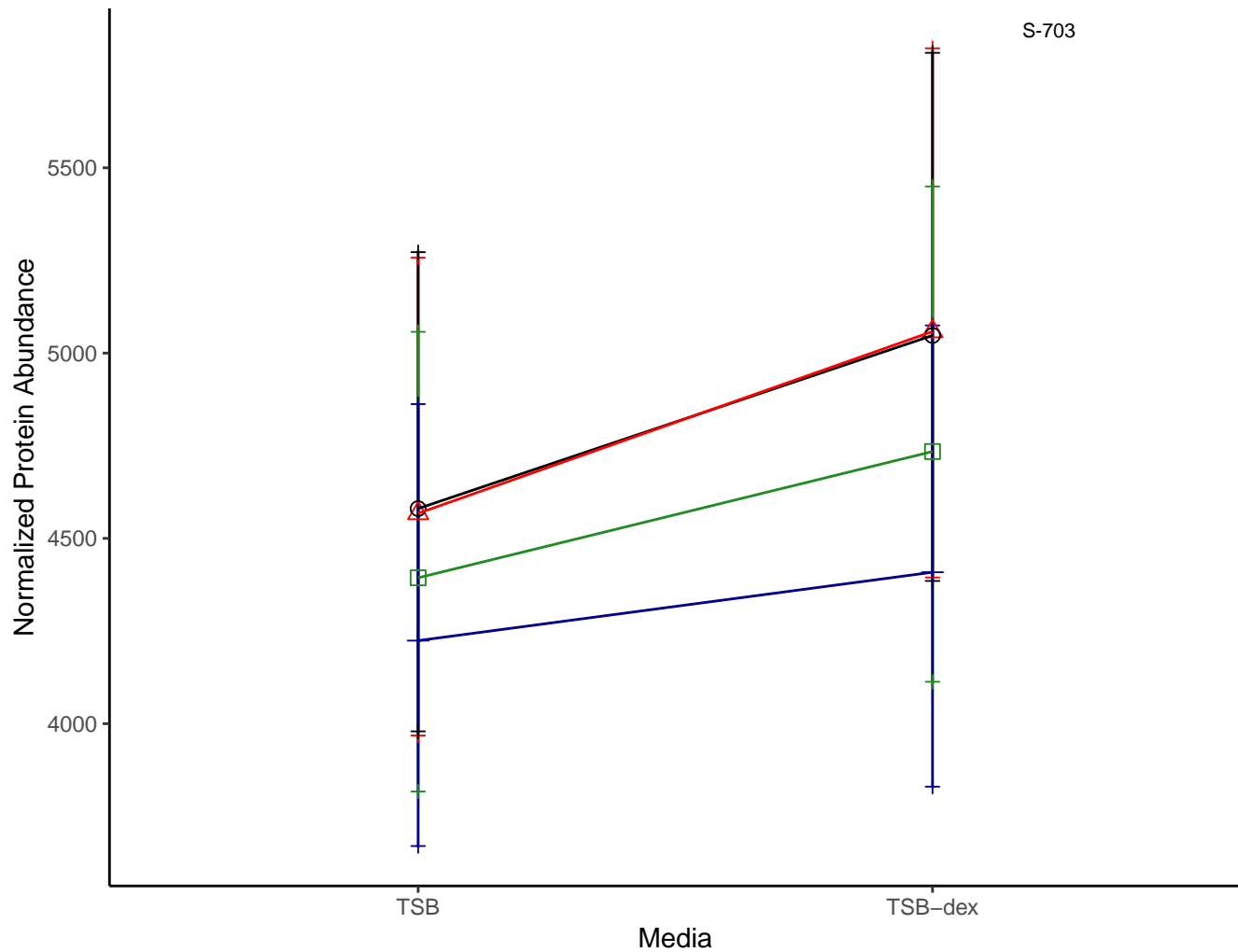
S-702



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MENG\_STAAM

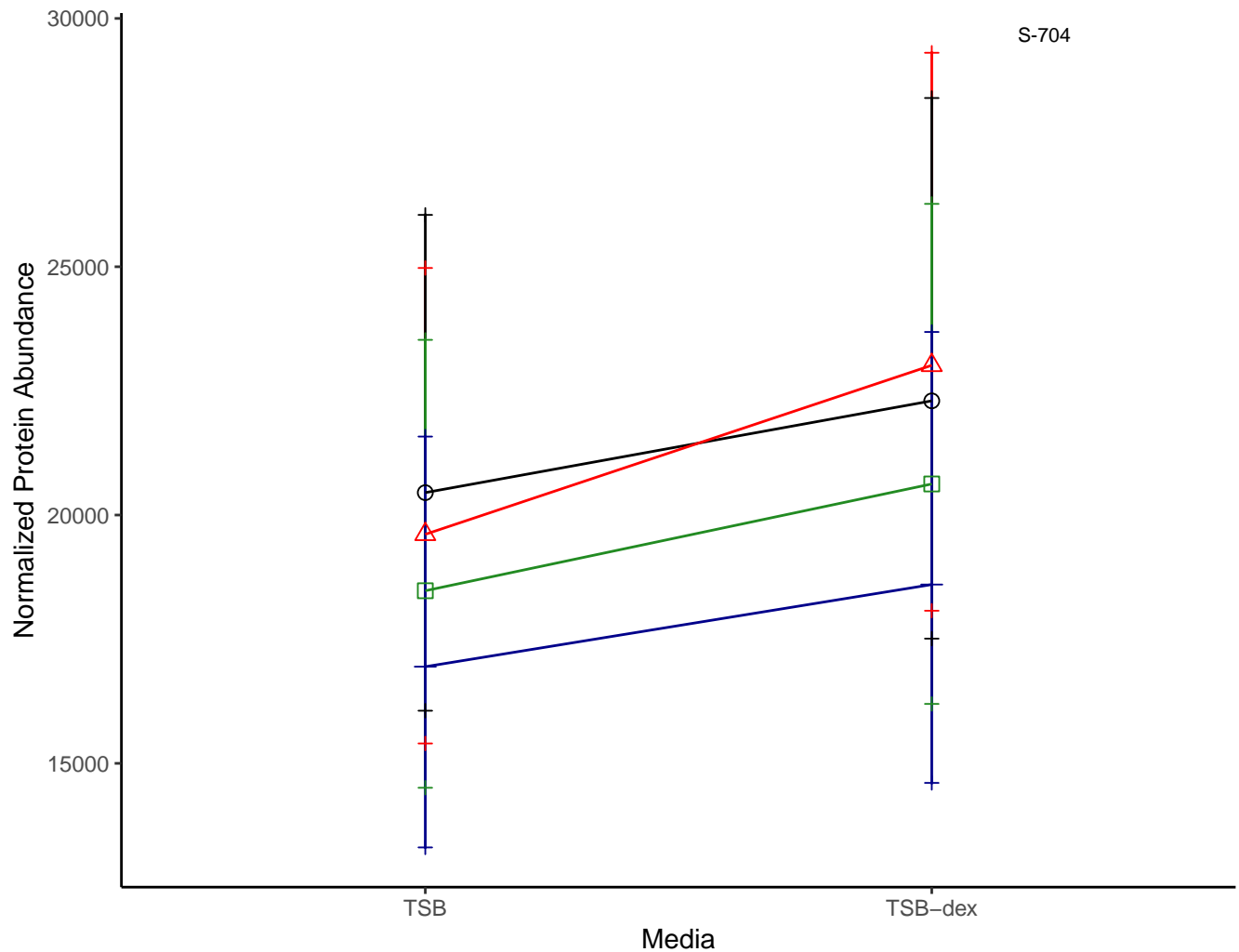
S-703



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# METK\_STAAM

S-704

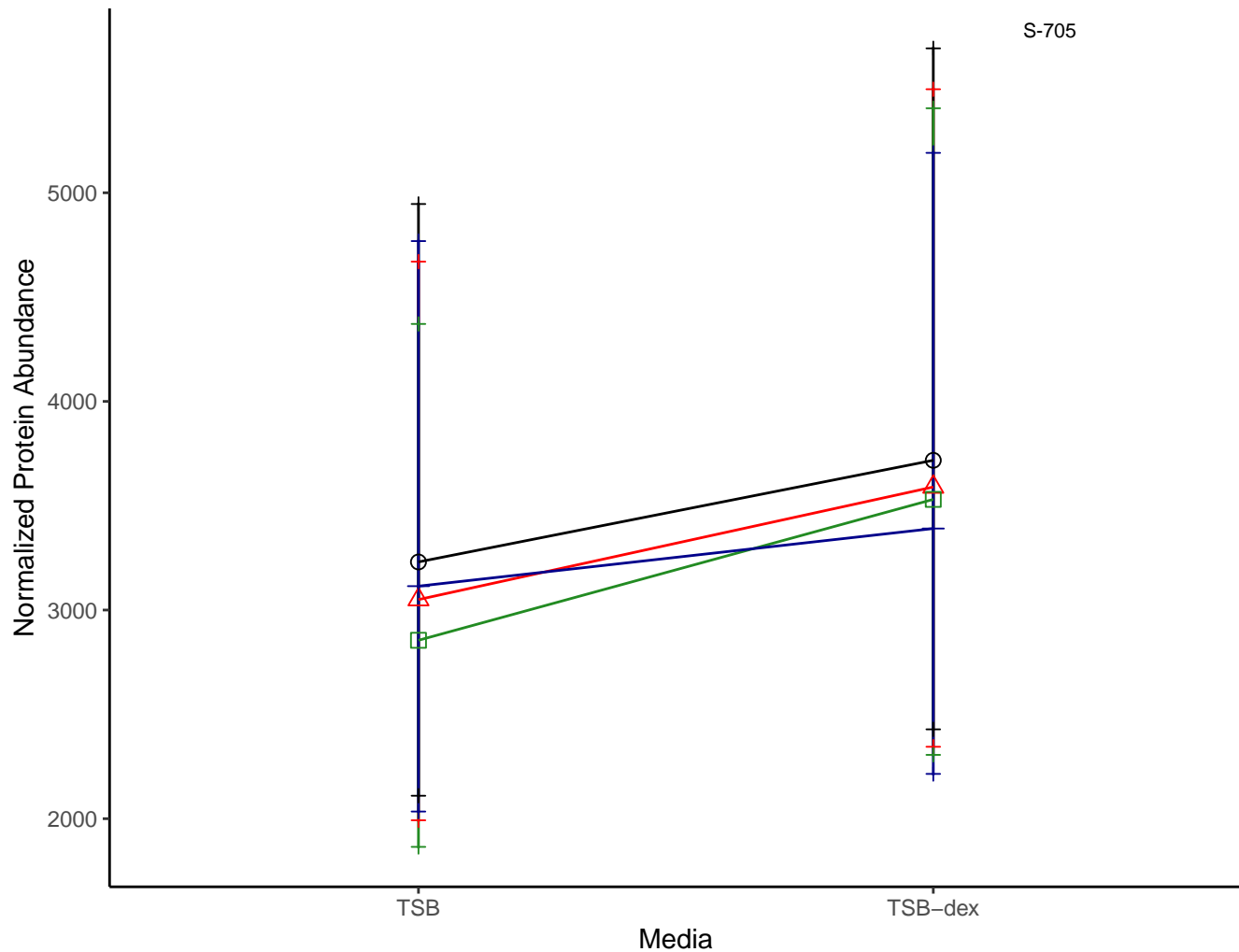


- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# METN2\_STAAM

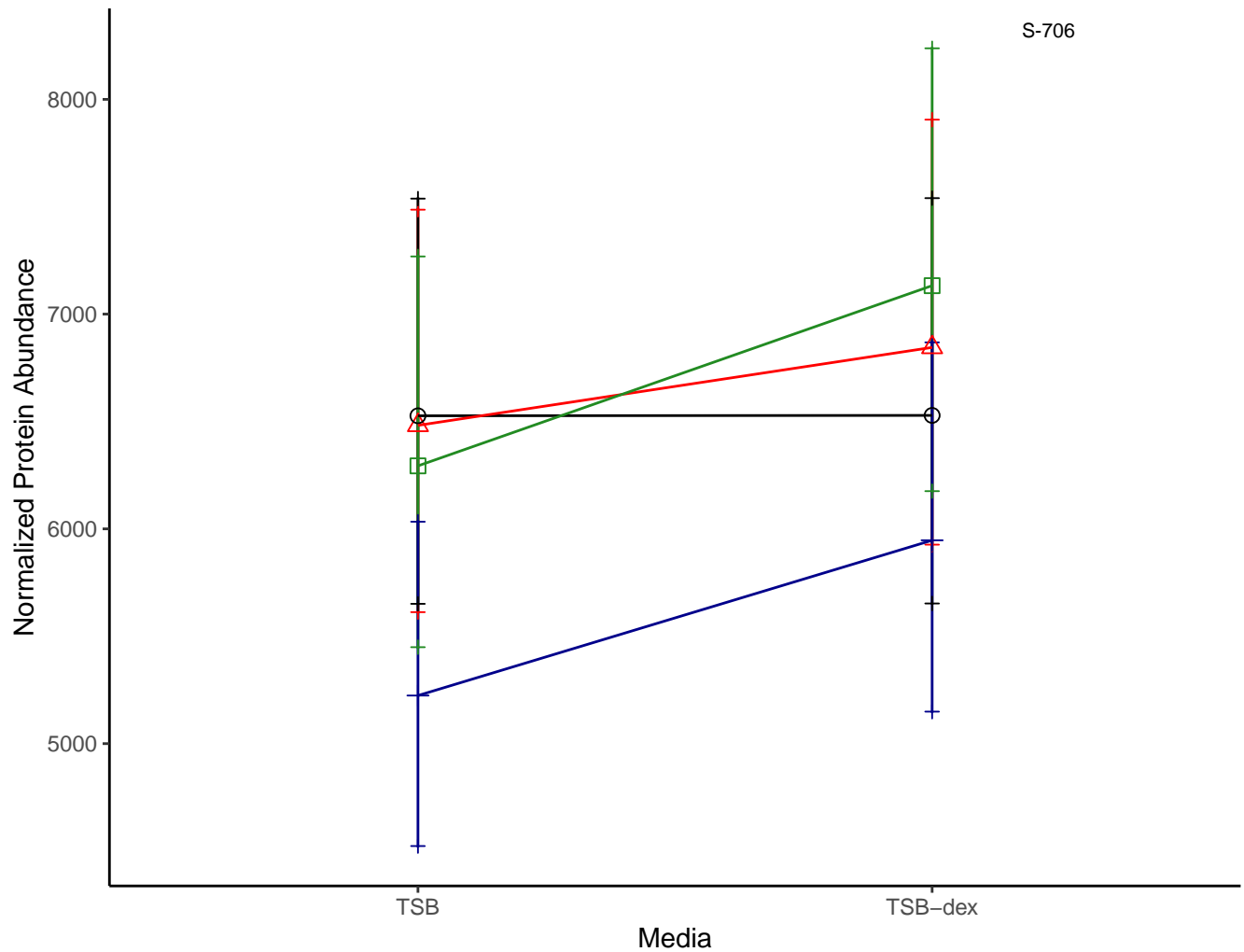
S-705



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MGRA\_STAAM

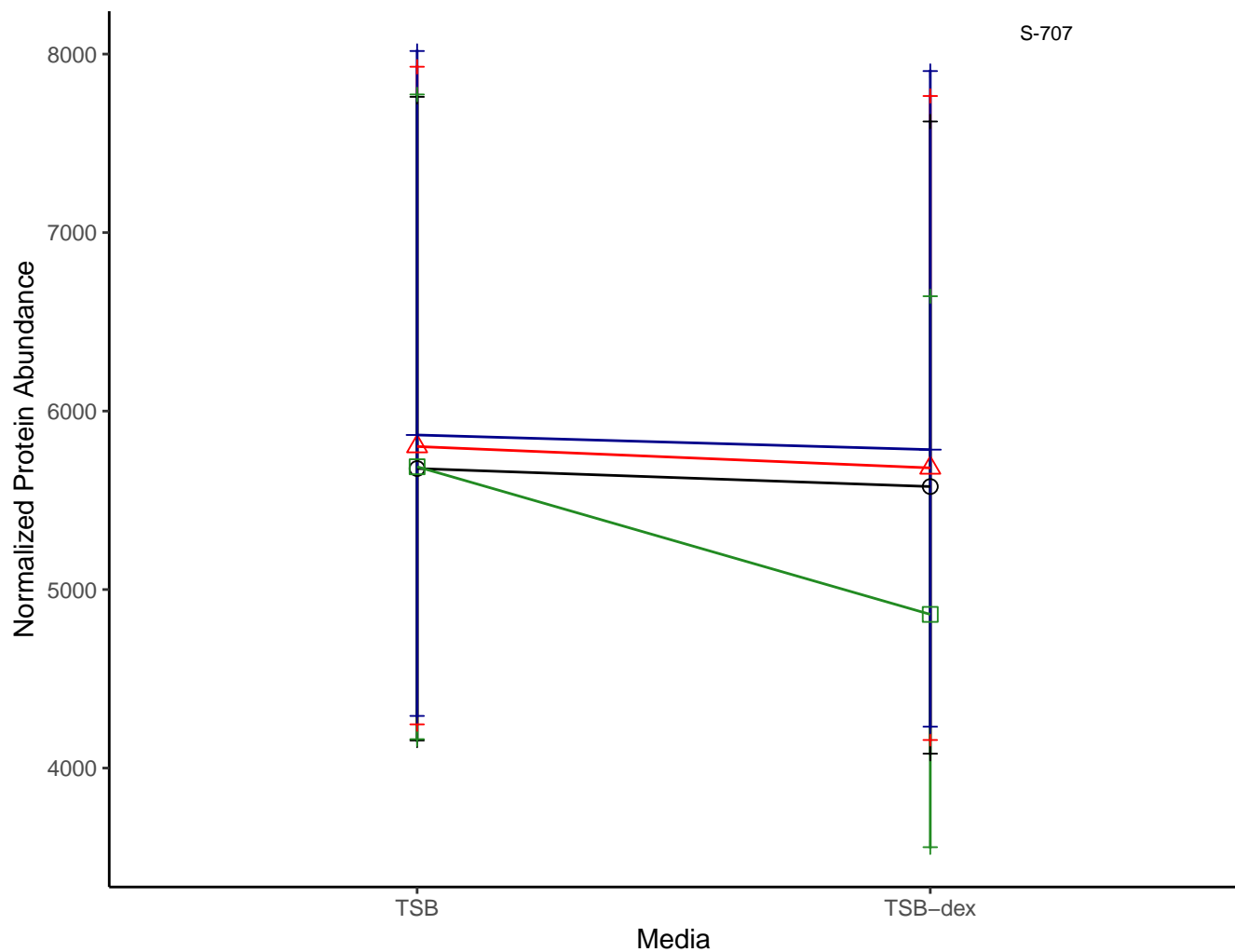
S-706



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MIAB\_STAAM

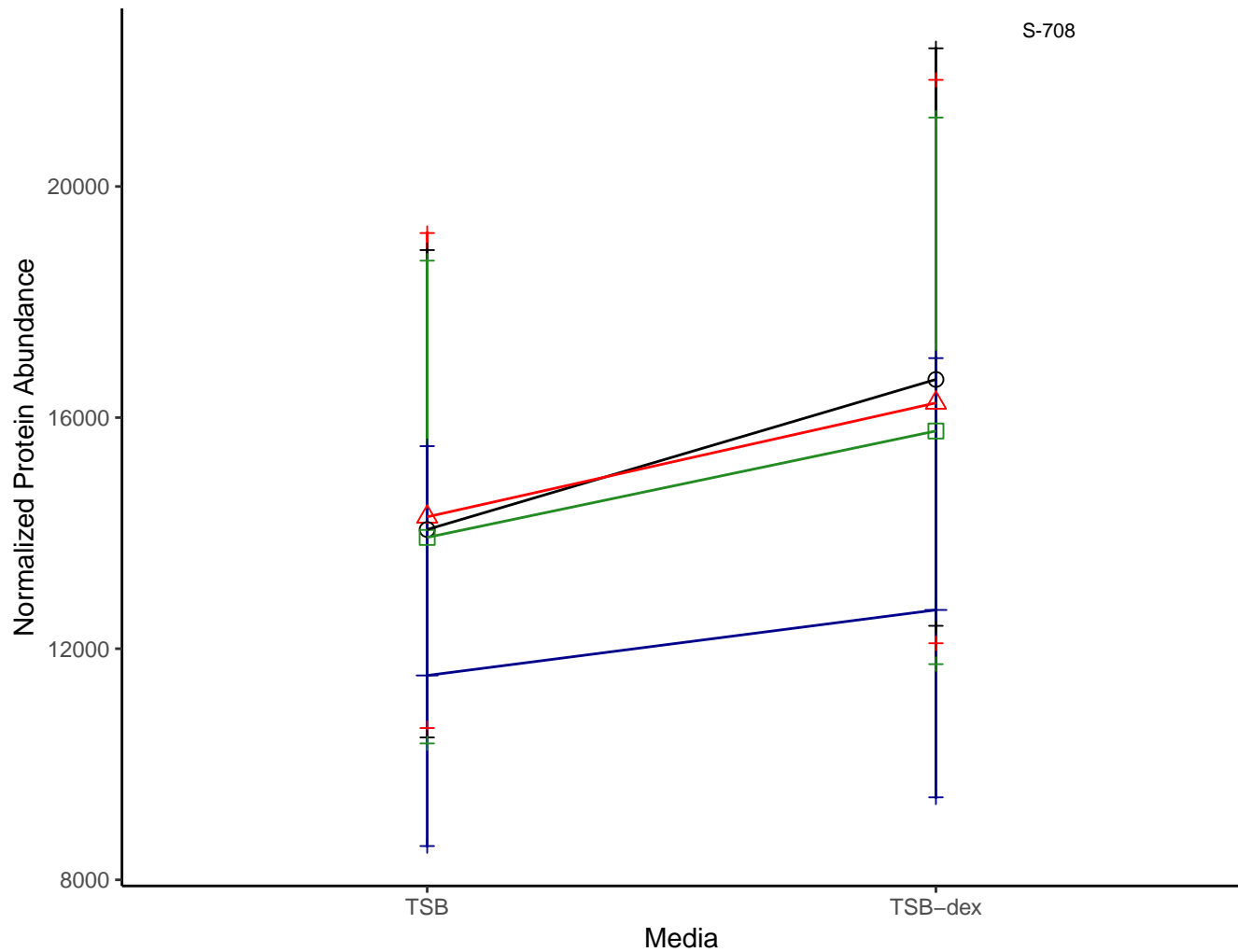
S-707



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# MNME\_STAAM

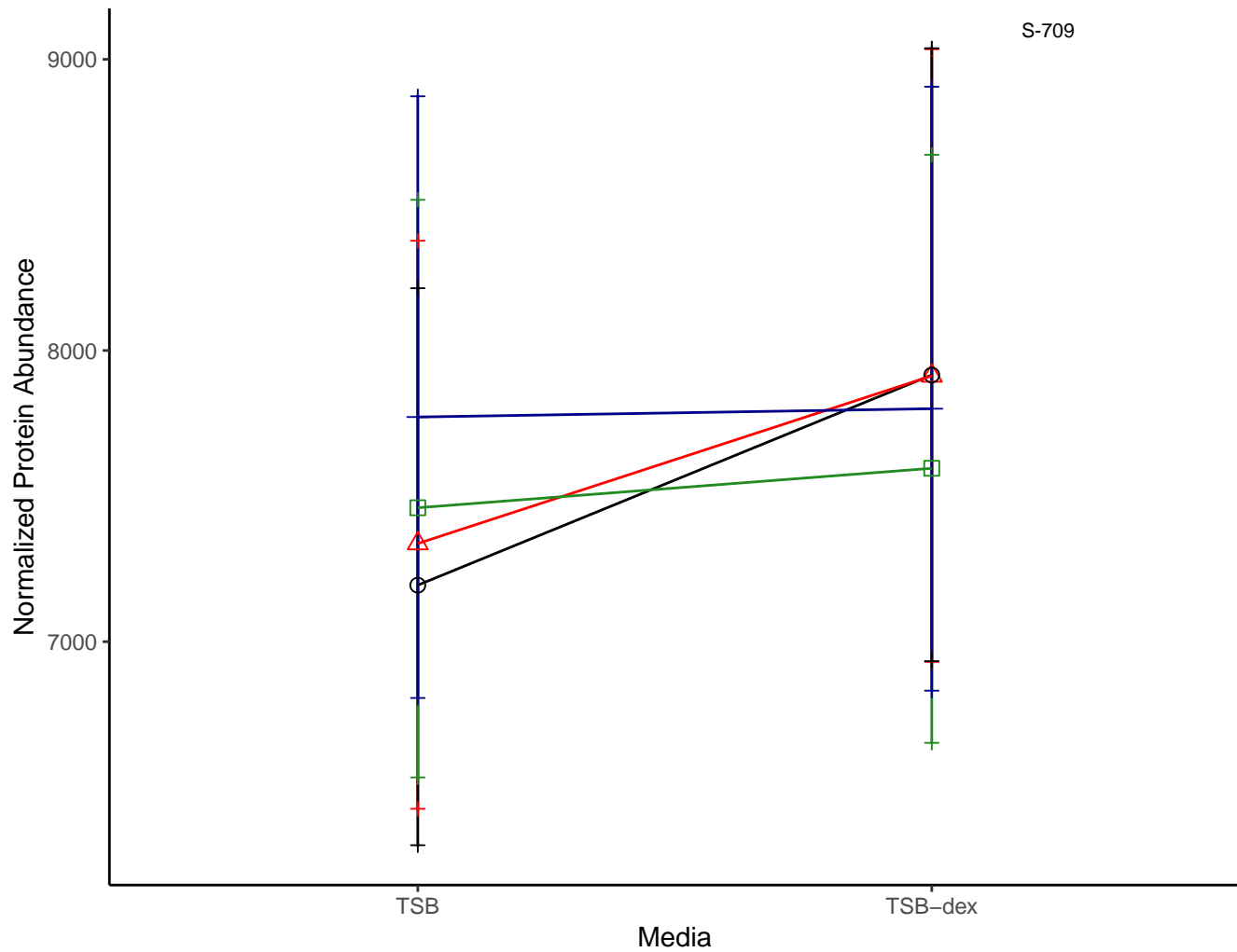
S-708



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MNMG\_STAAM

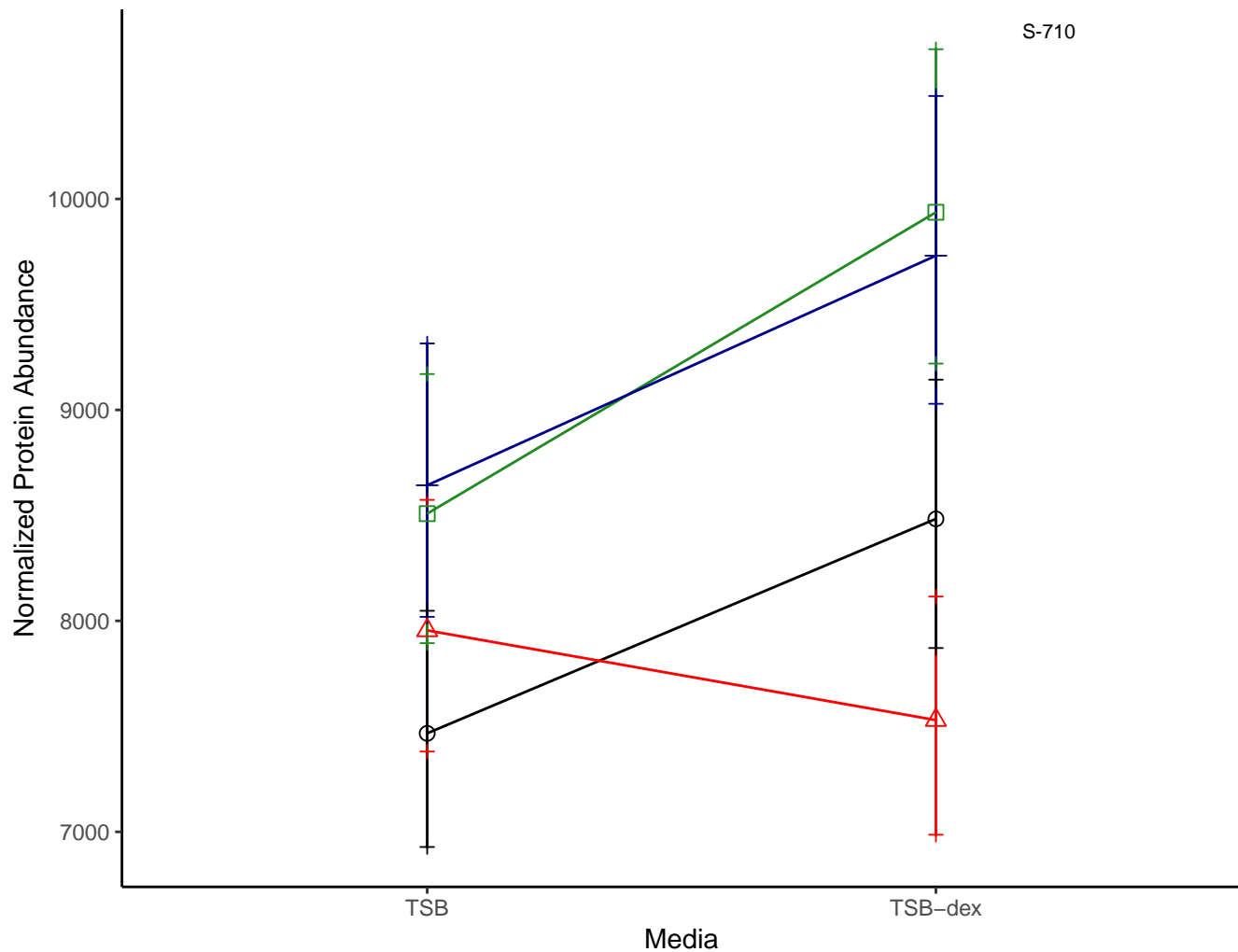
S-709



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MOAC\_STAAM

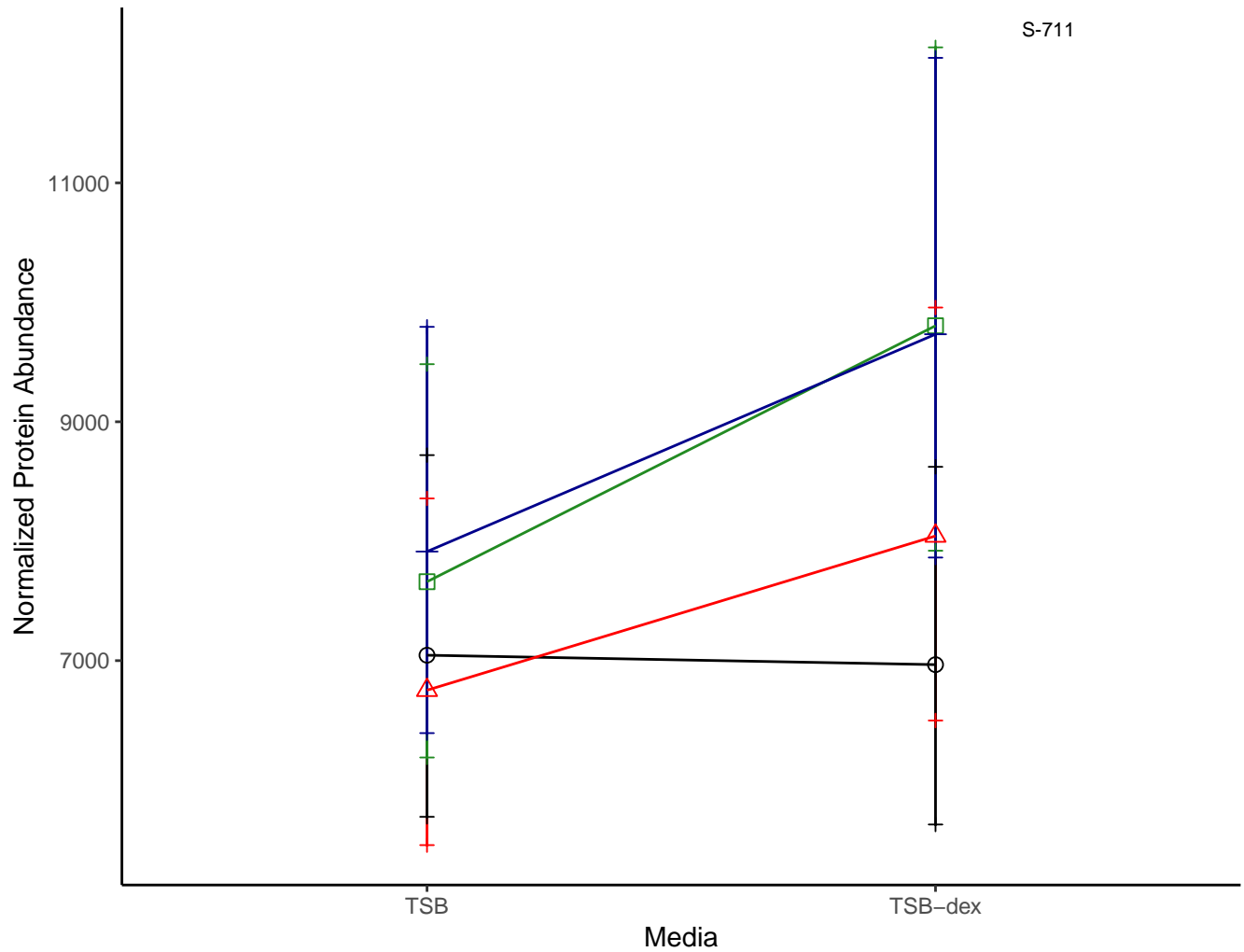
S-710



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MOEA\_STAAM

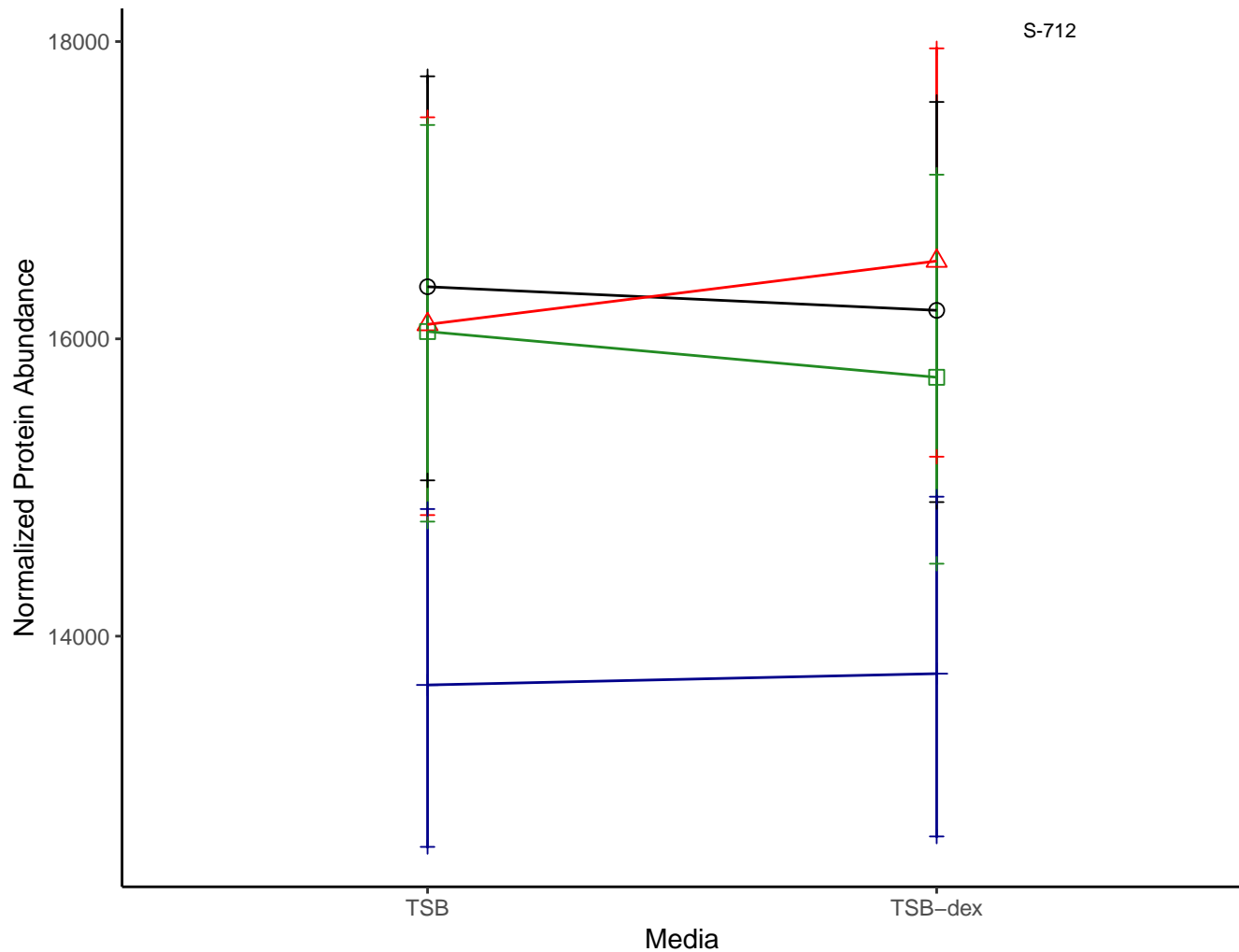
S-711



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## MQO2\_STAAM

S-712

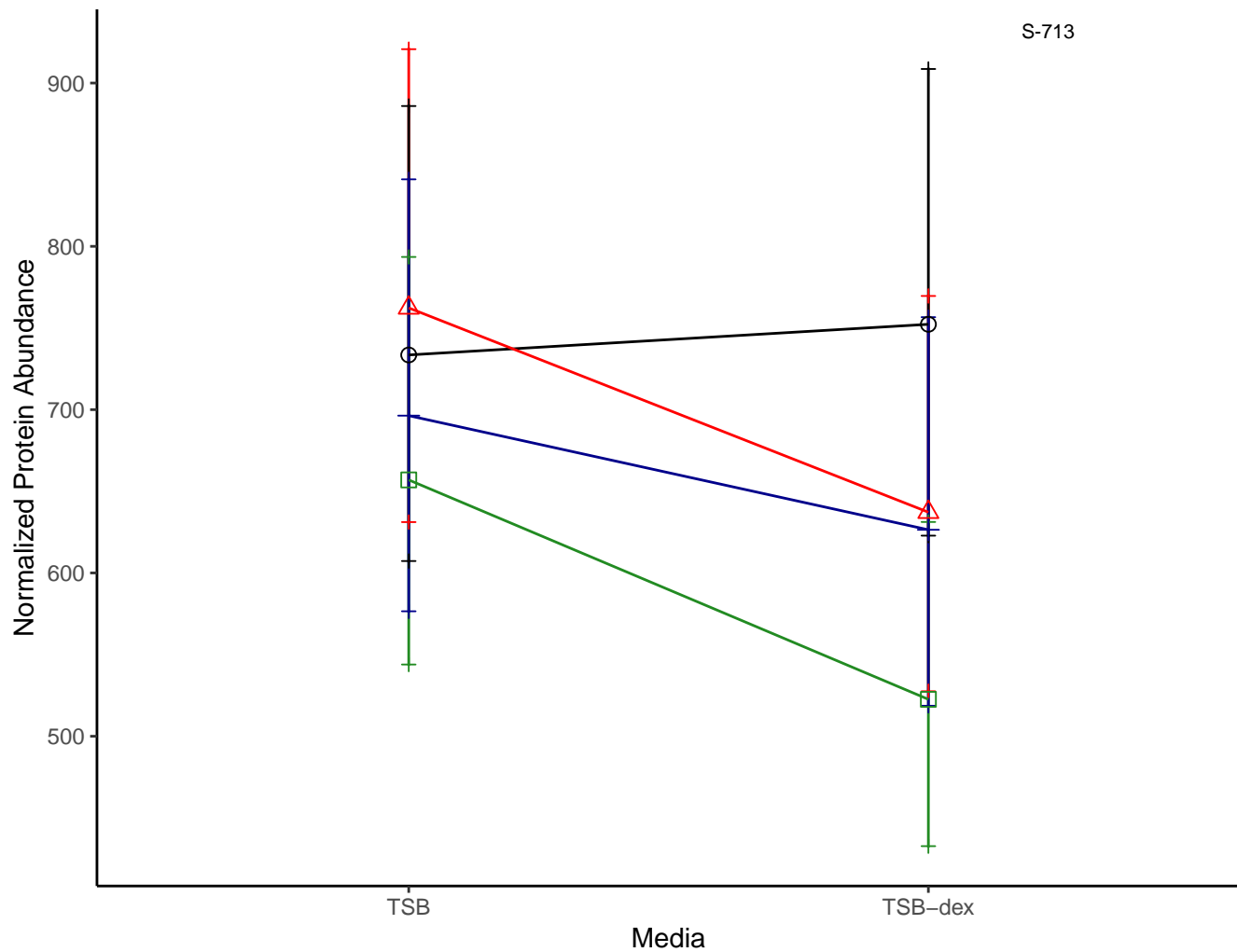


- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$



# MSRA1\_STAAM

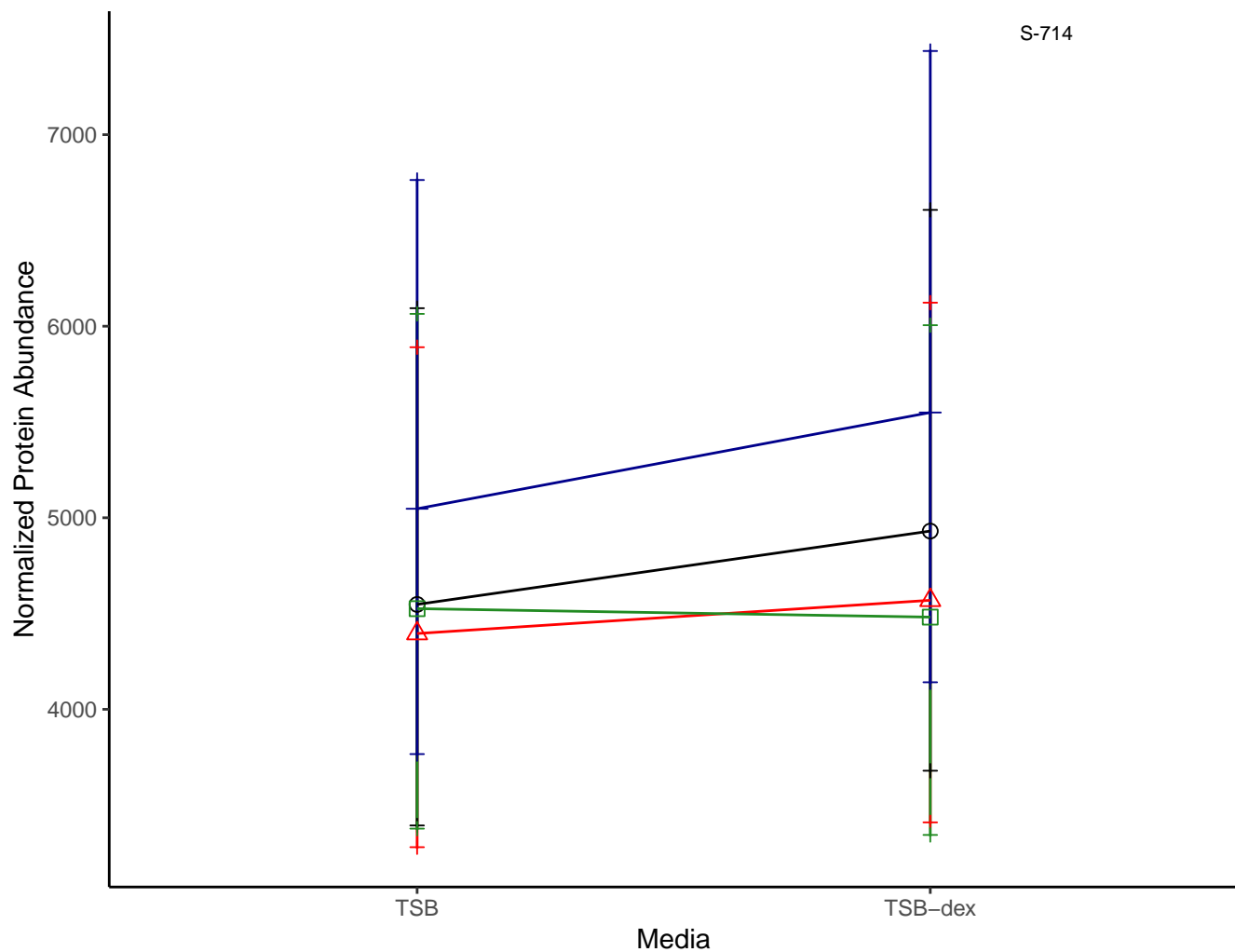
S-713



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# MSRA2\_STAAM

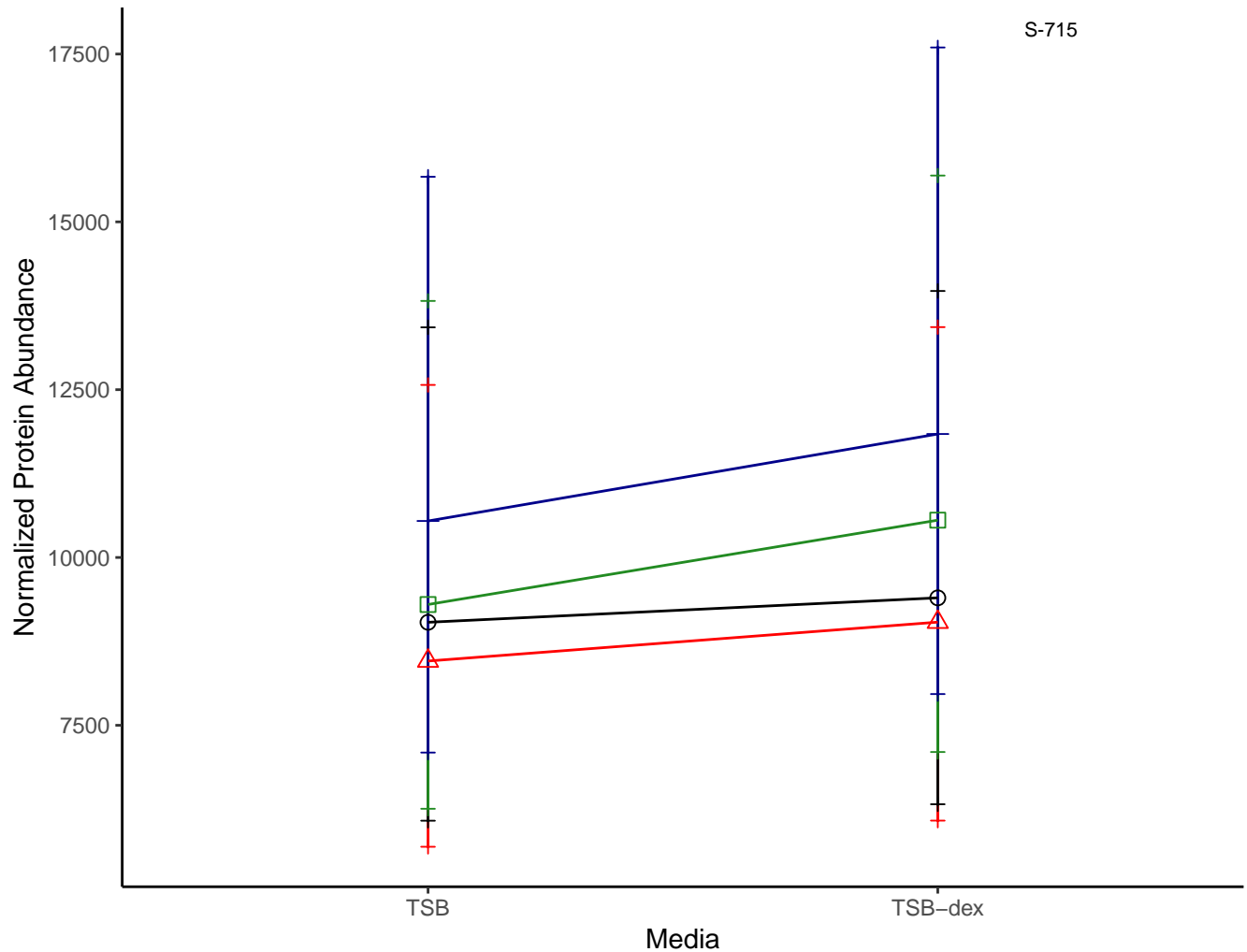
S-714



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MSRB\_STAAM

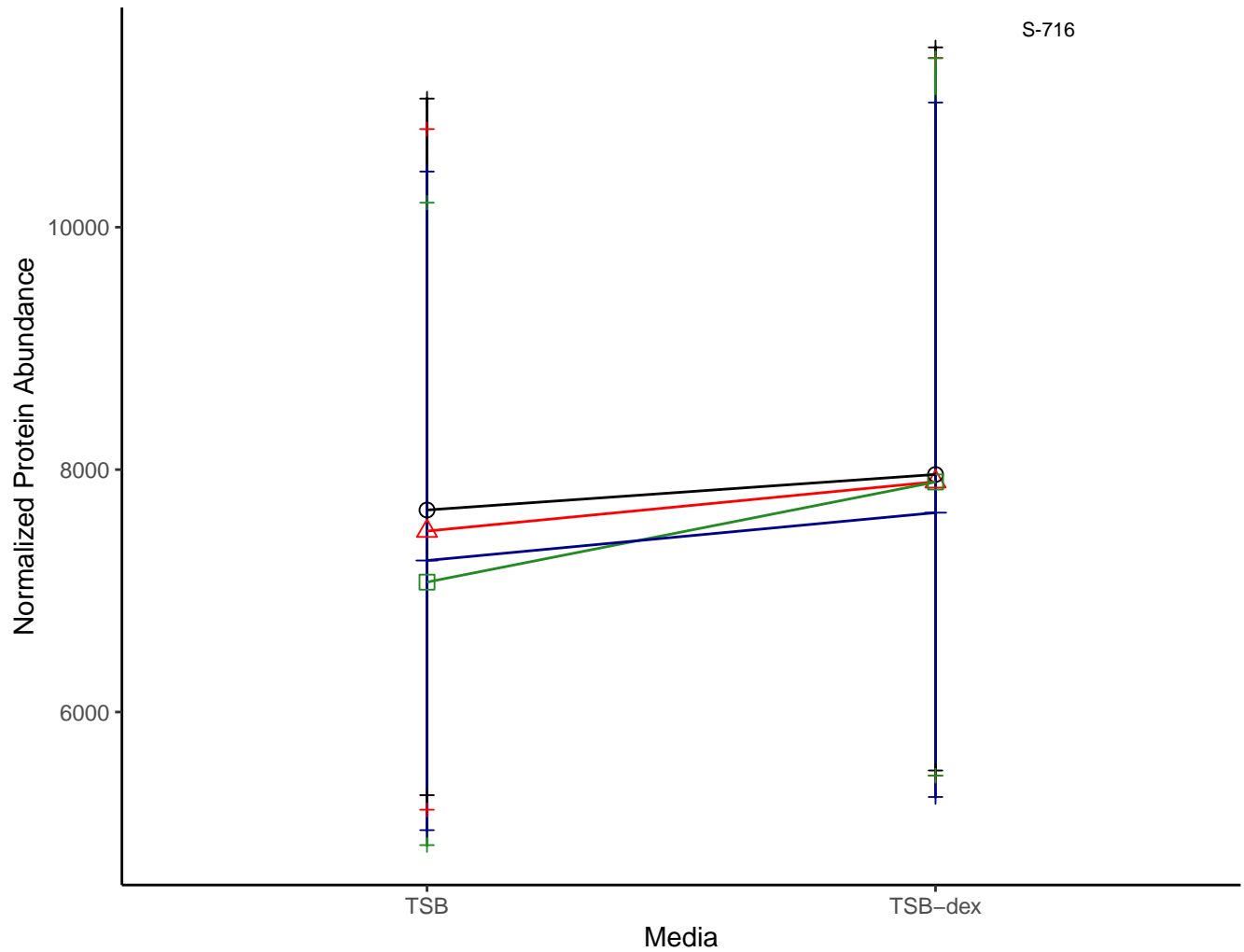
S-715



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MTLD\_STAAM

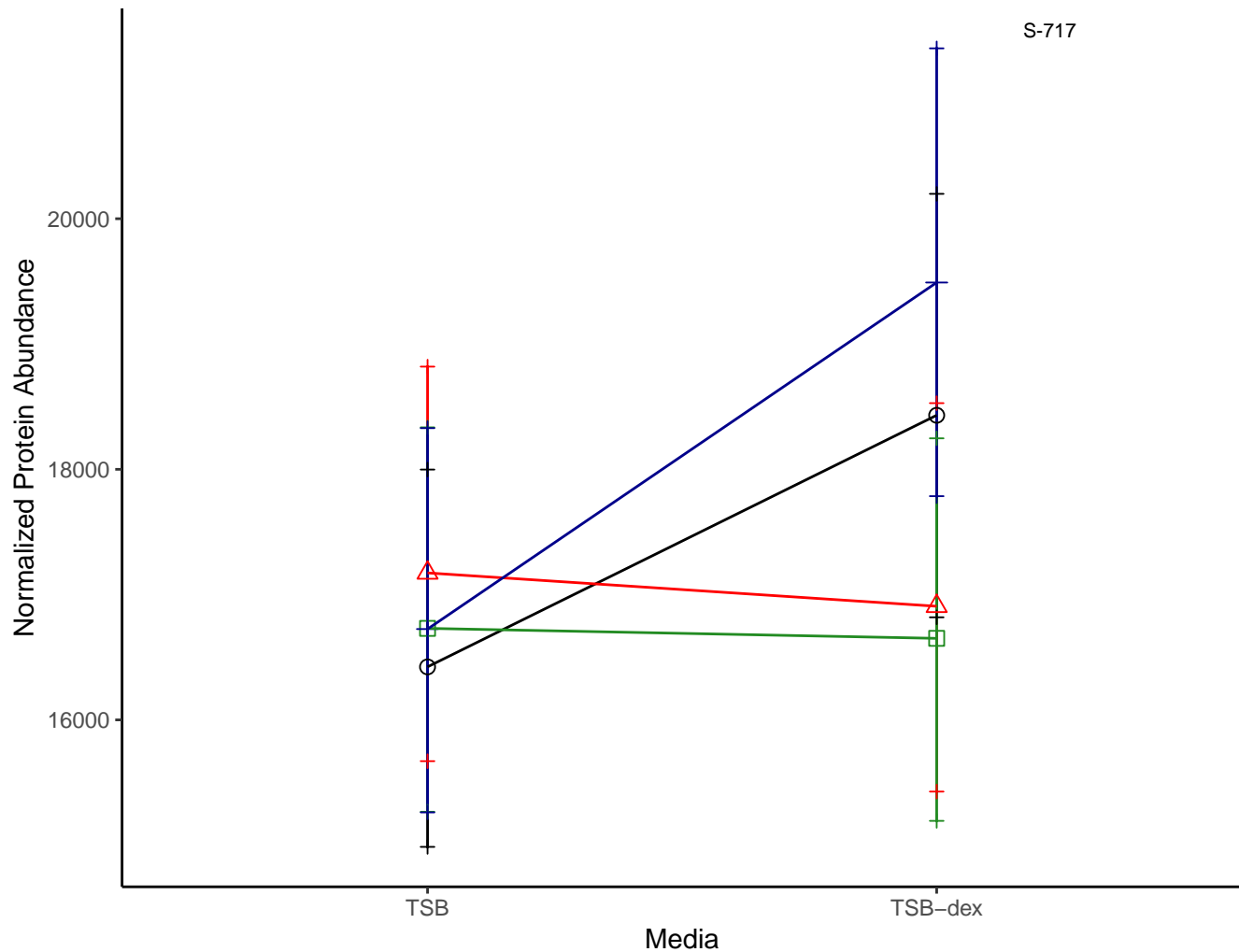
S-716



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# MTNN\_STAAM

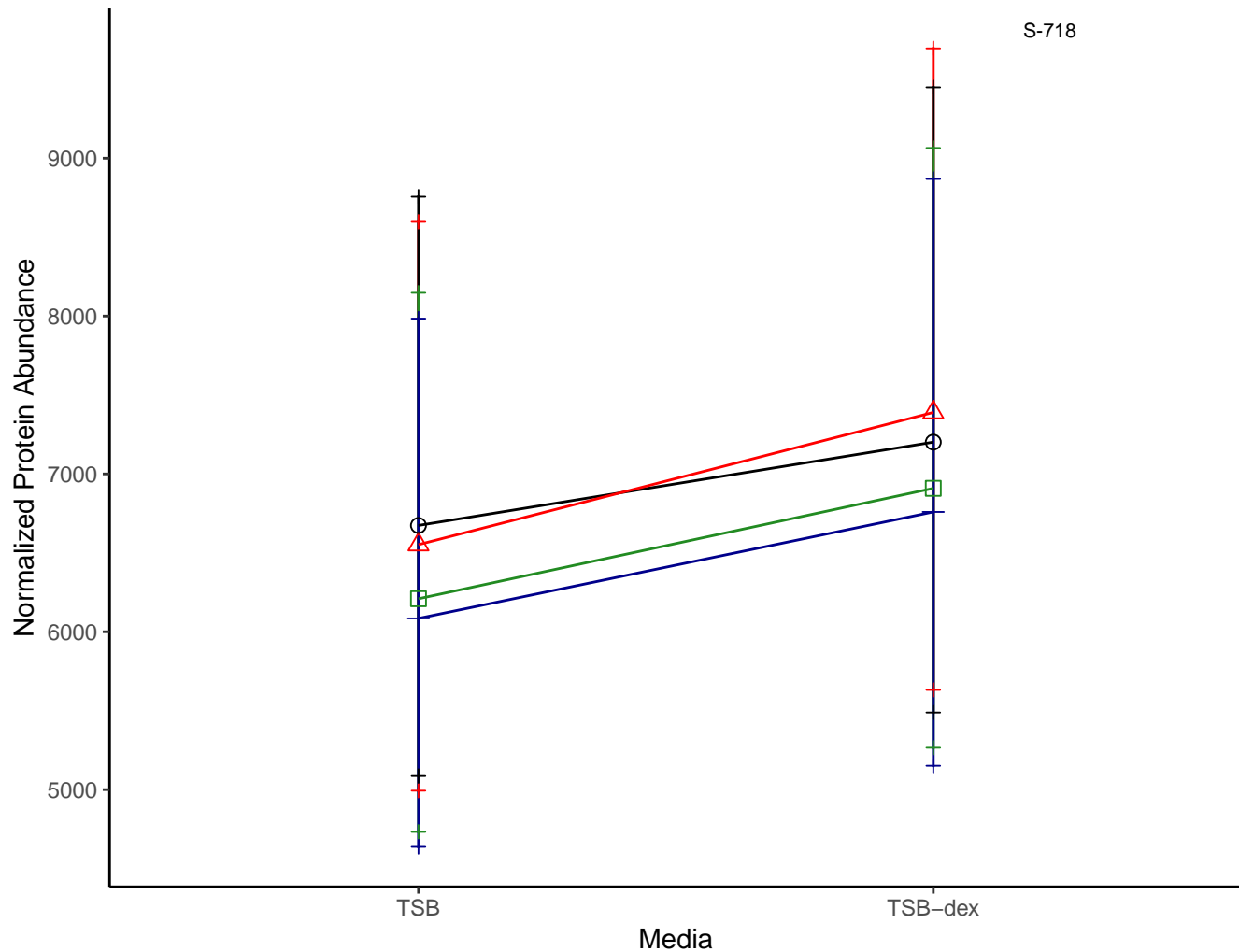
S-717



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MURA1\_STAAM

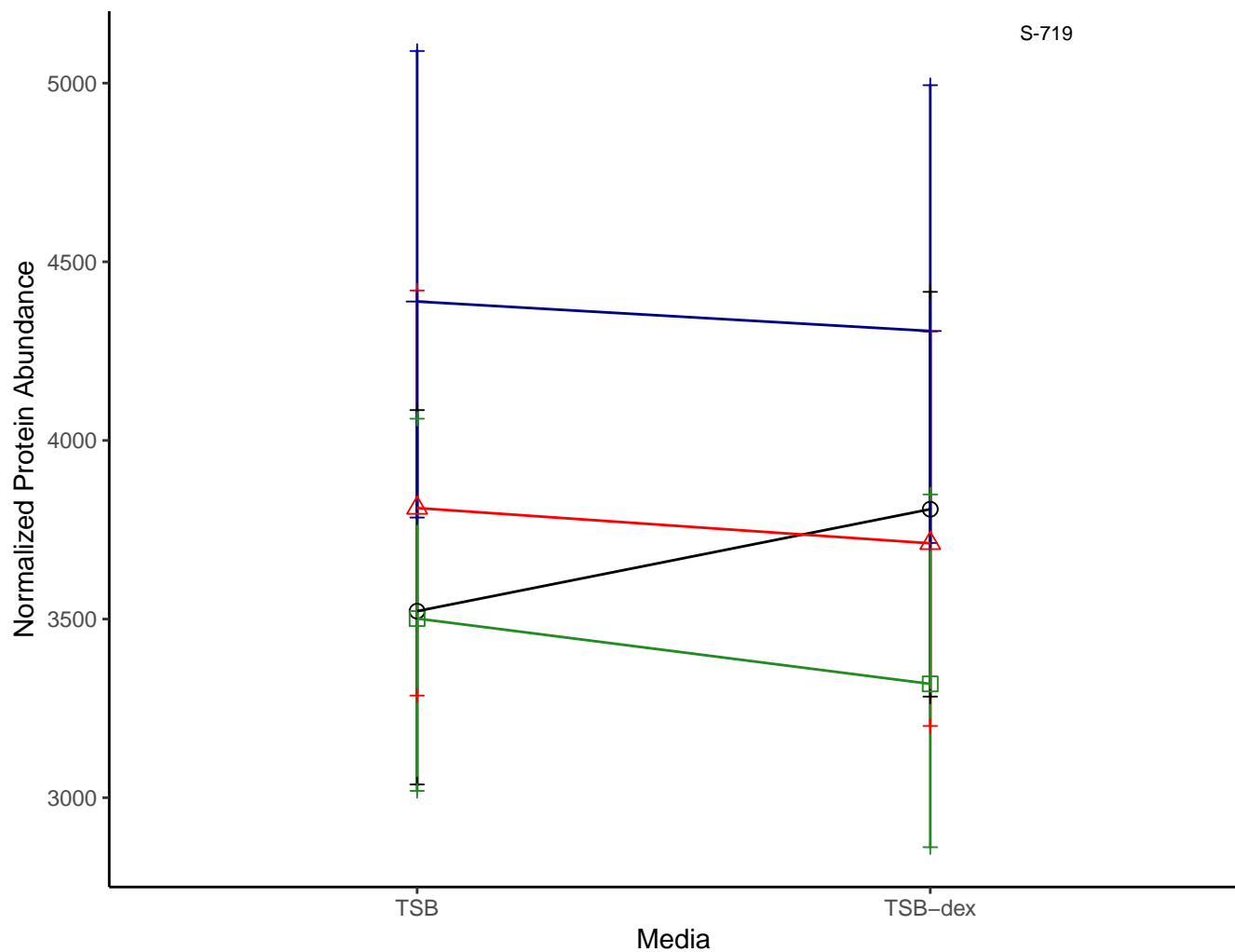
S-718



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MURA2\_STAAM

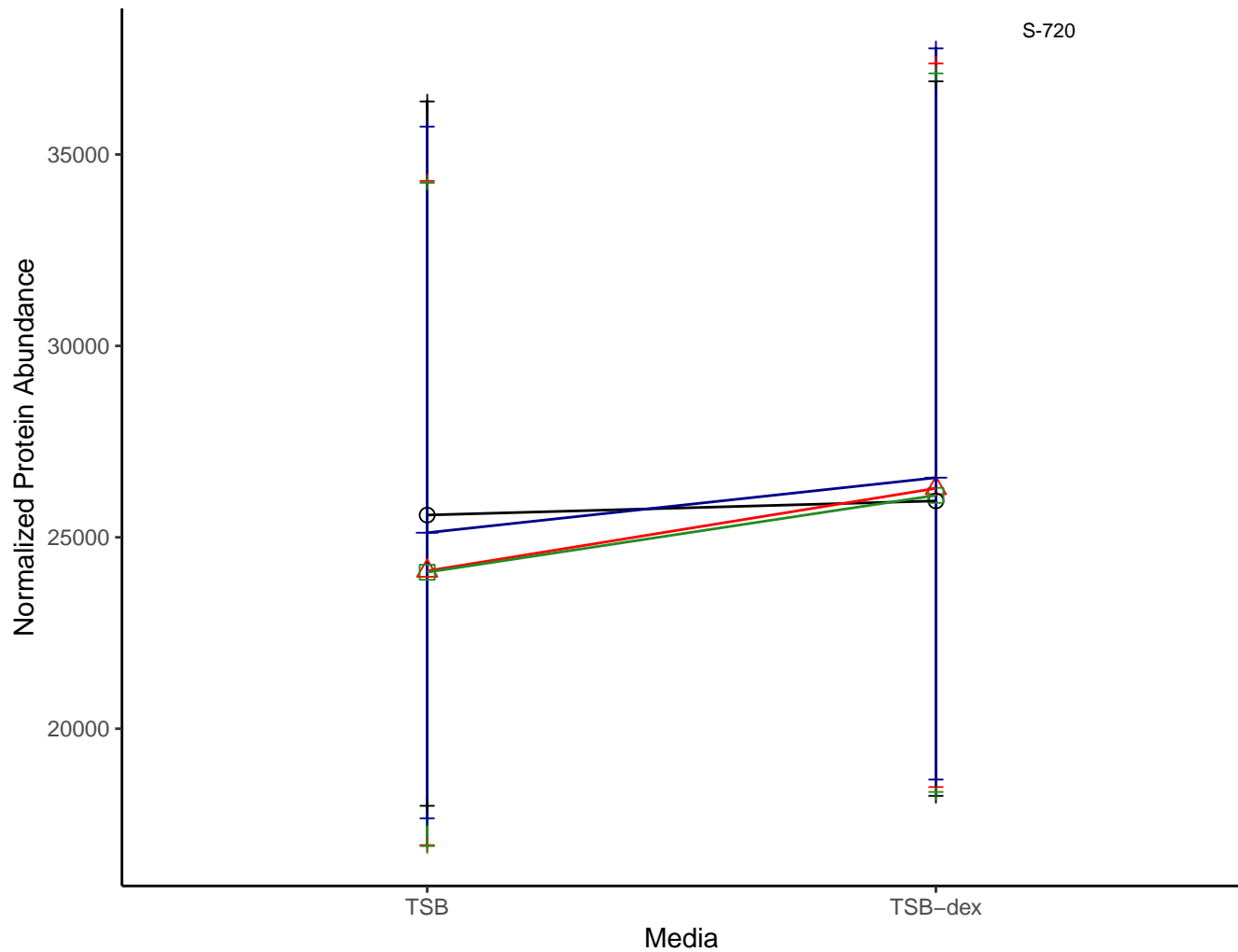
S-719



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MURC\_STAAM

S-720

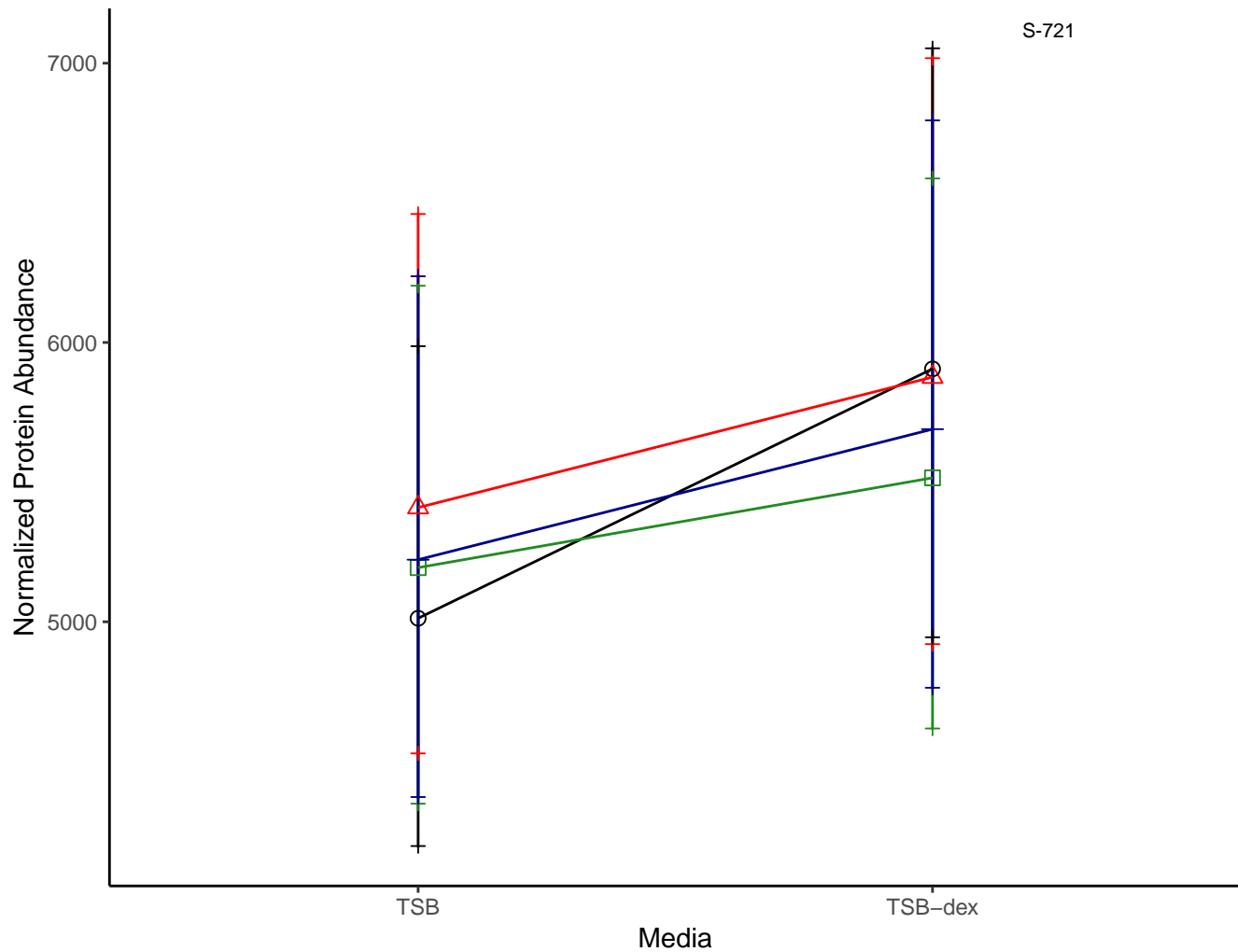


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MURD\_STAAM

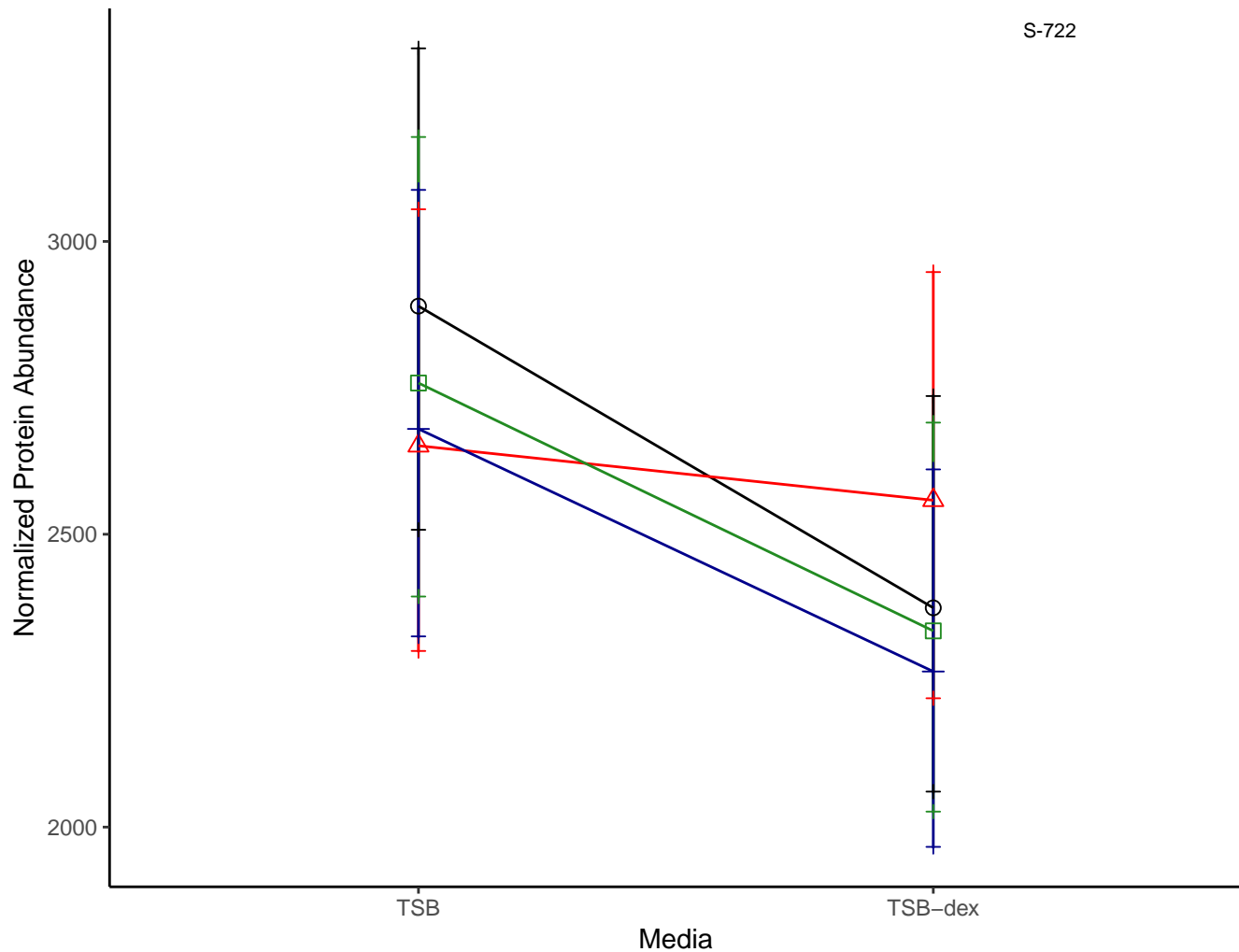
S-721



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# MURE\_STAAM

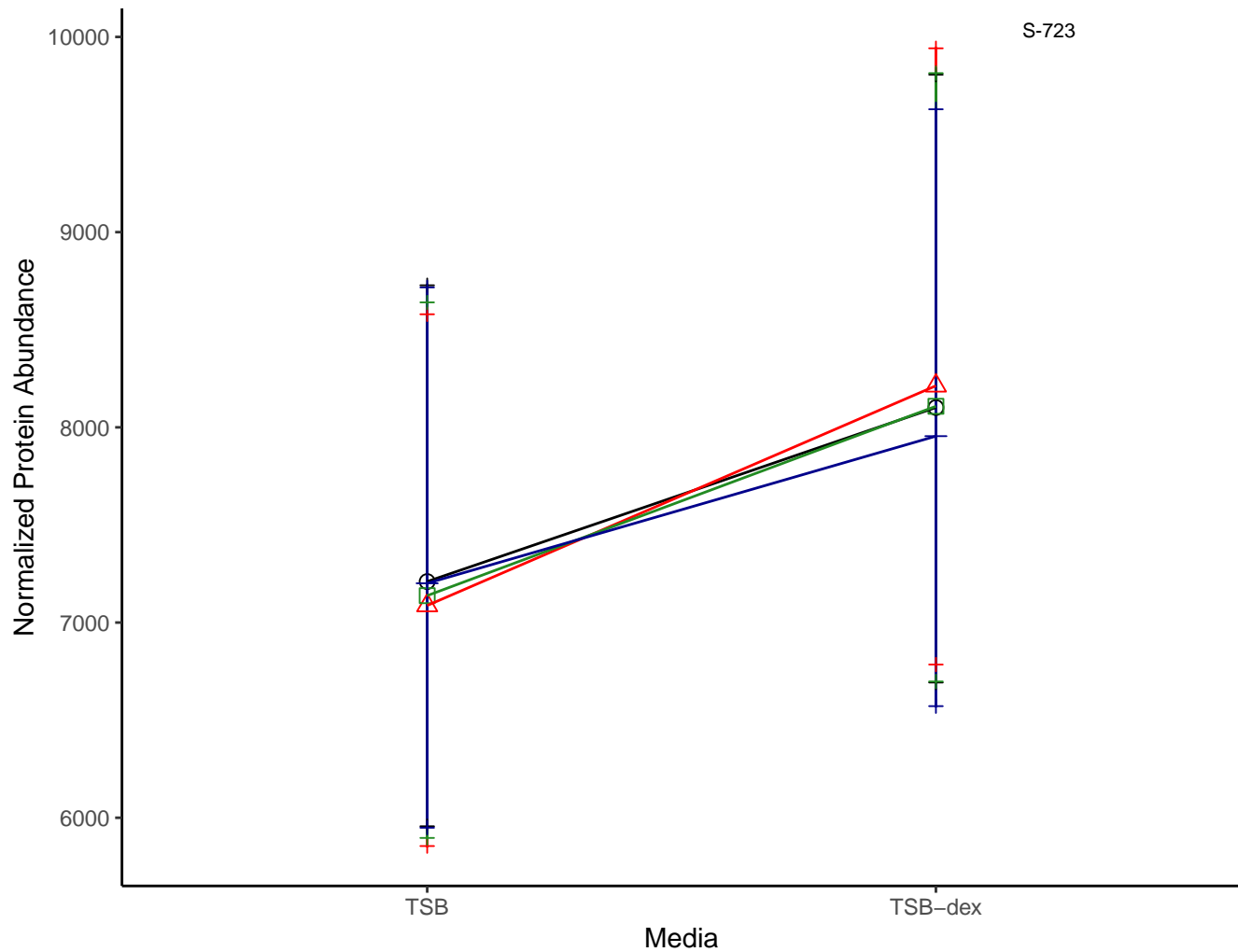
S-722



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURG\_STAAM

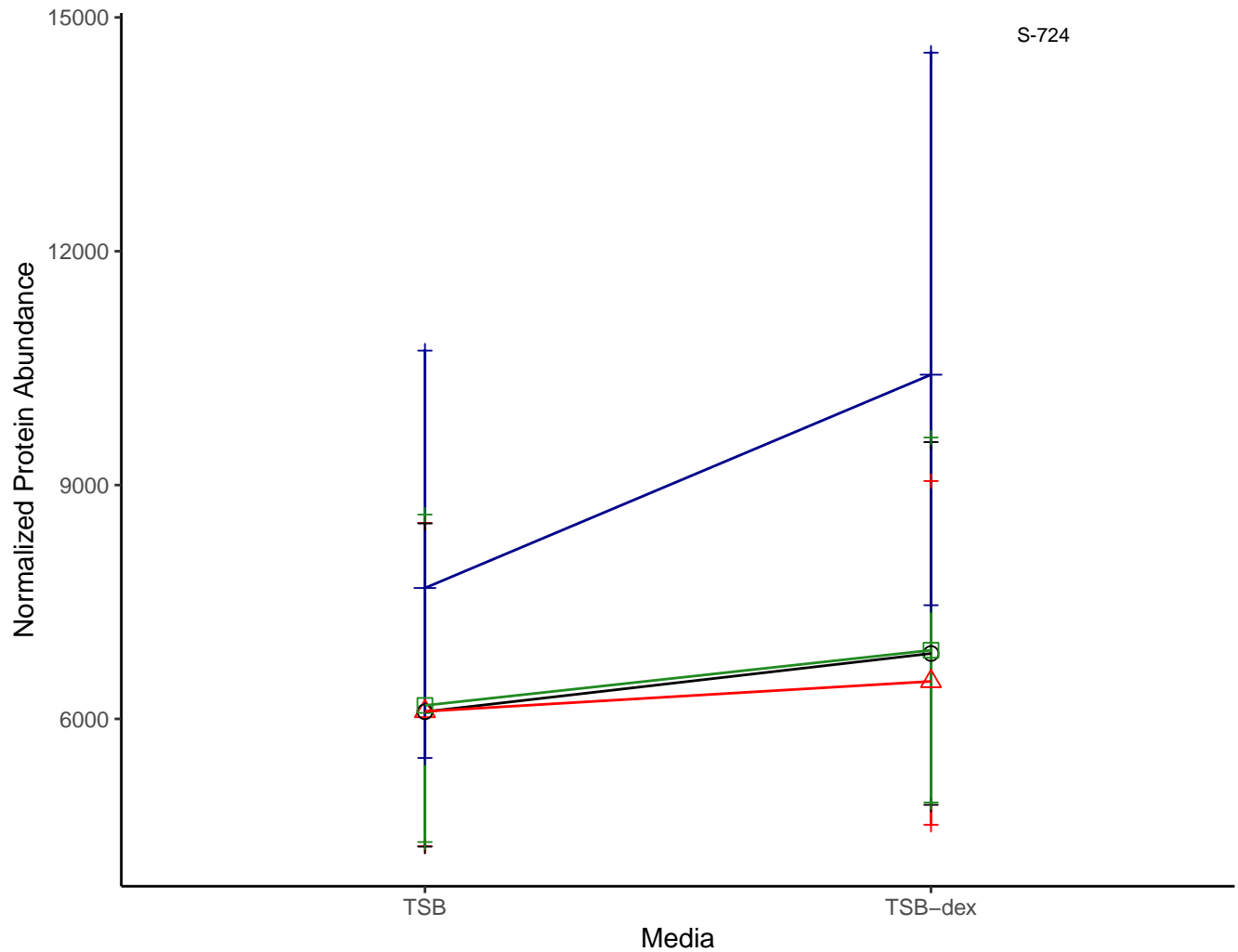
S-723



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MURI\_STAAM

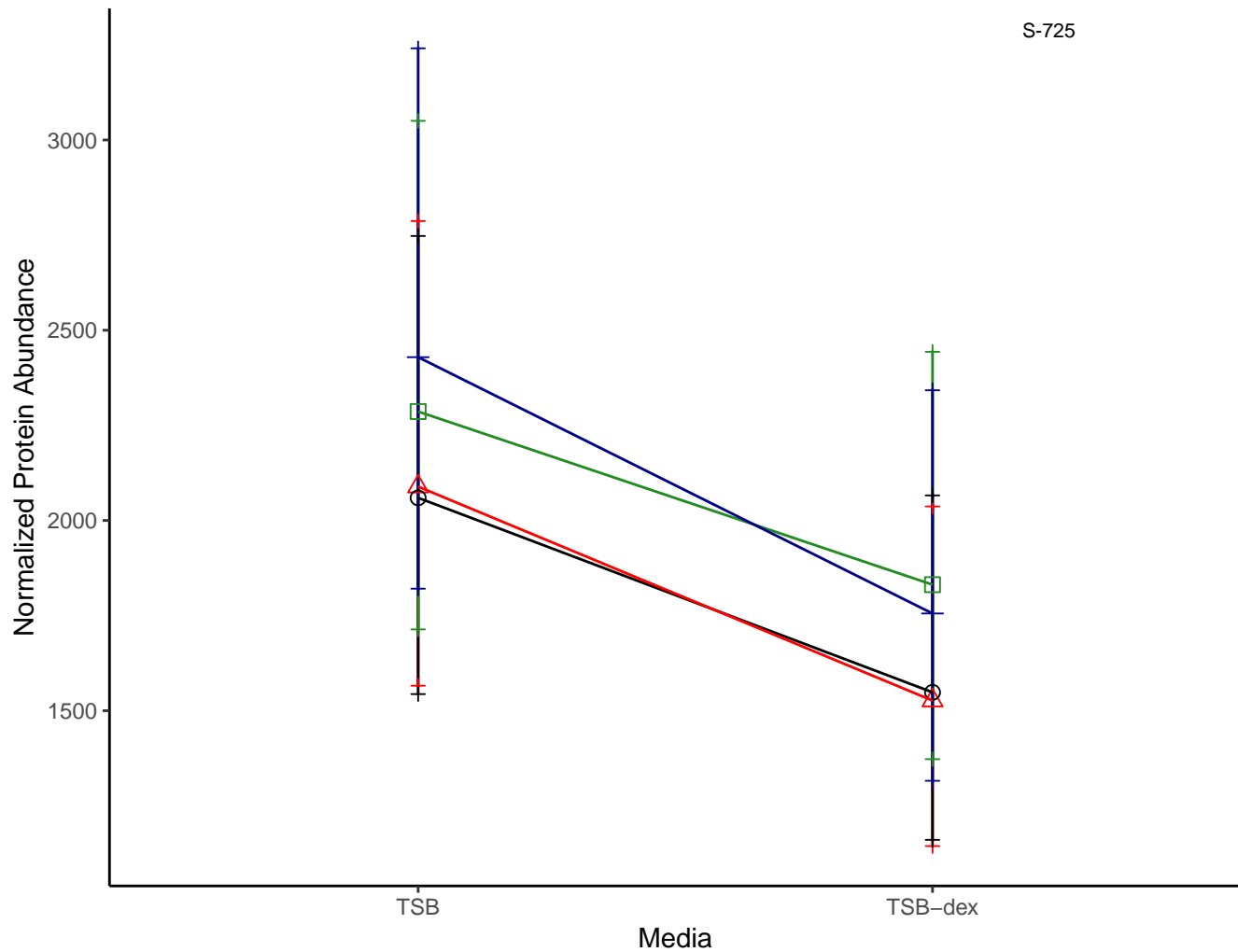
S-724



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MUTS\_STAAM

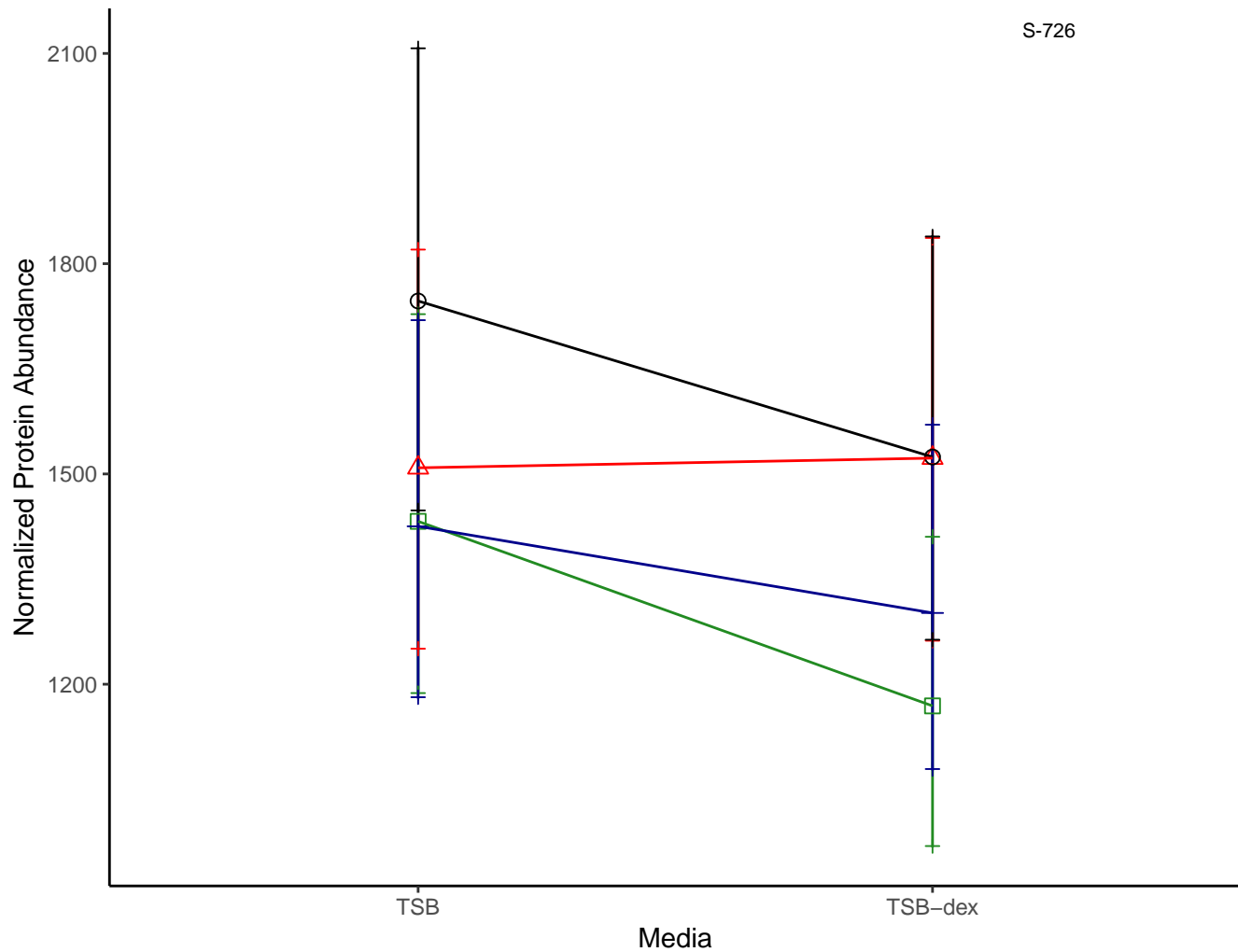
S-725



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# NADD\_STAAM

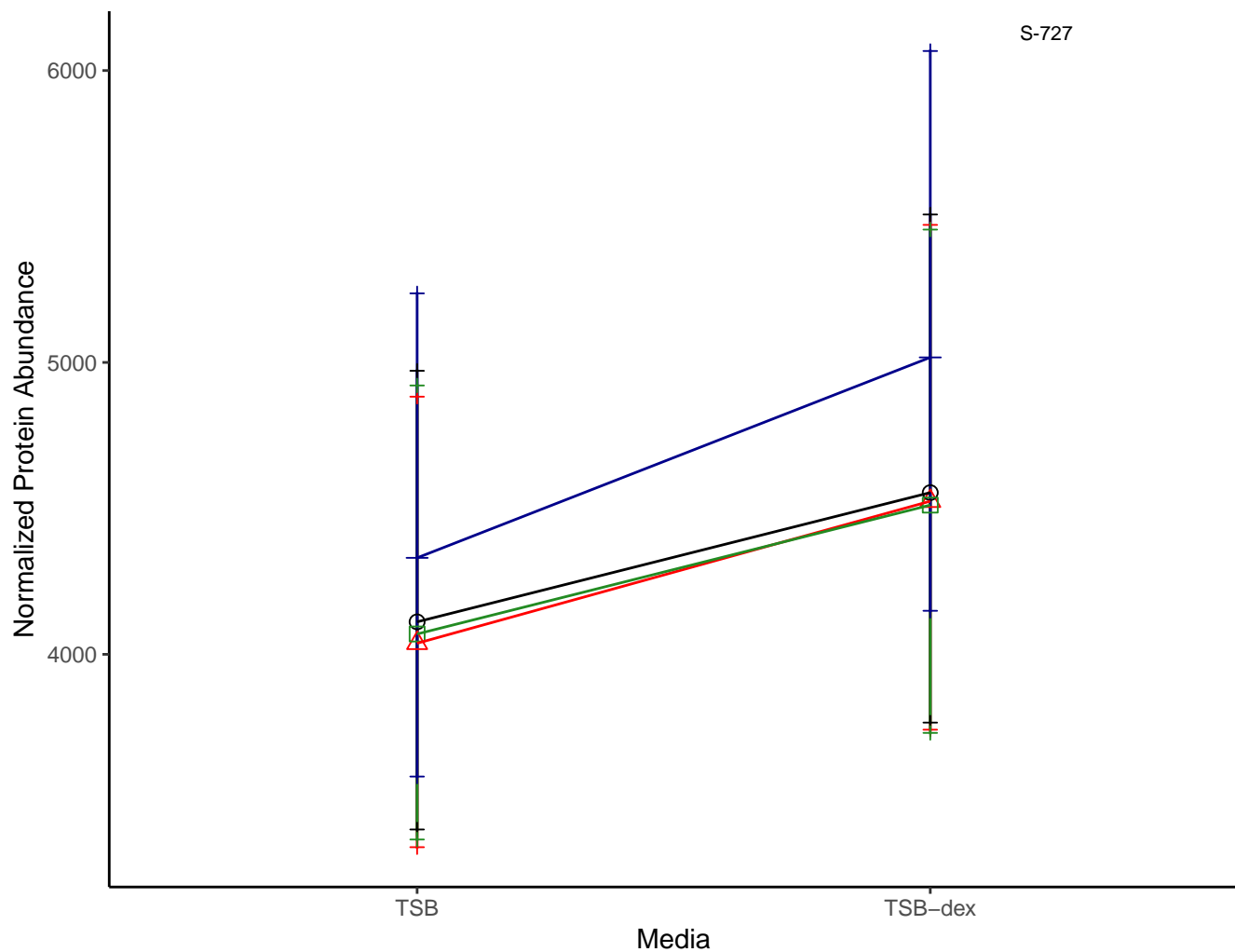
S-726



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# NADE\_STAAM

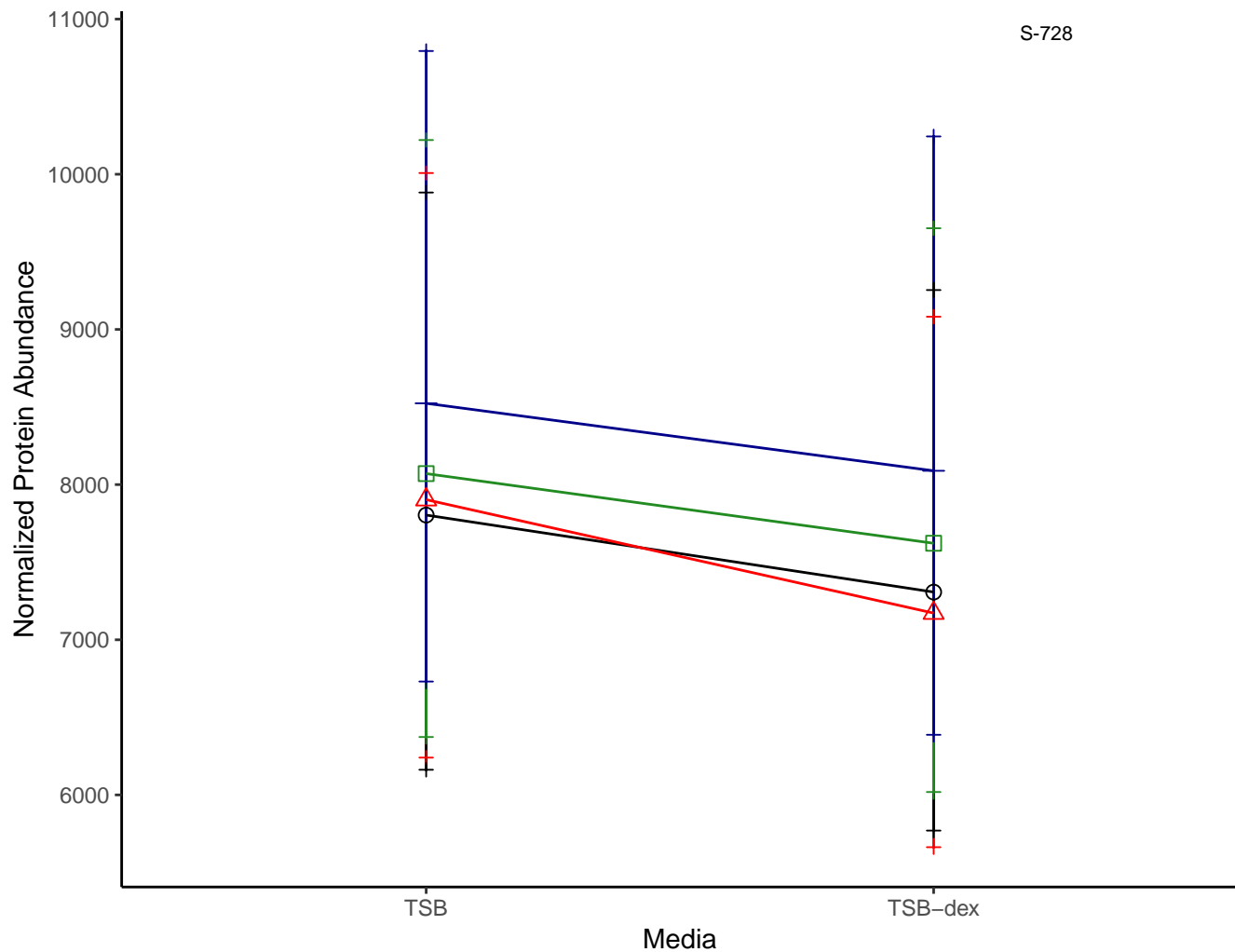
S-727



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# NAGD\_STAAM

S-728

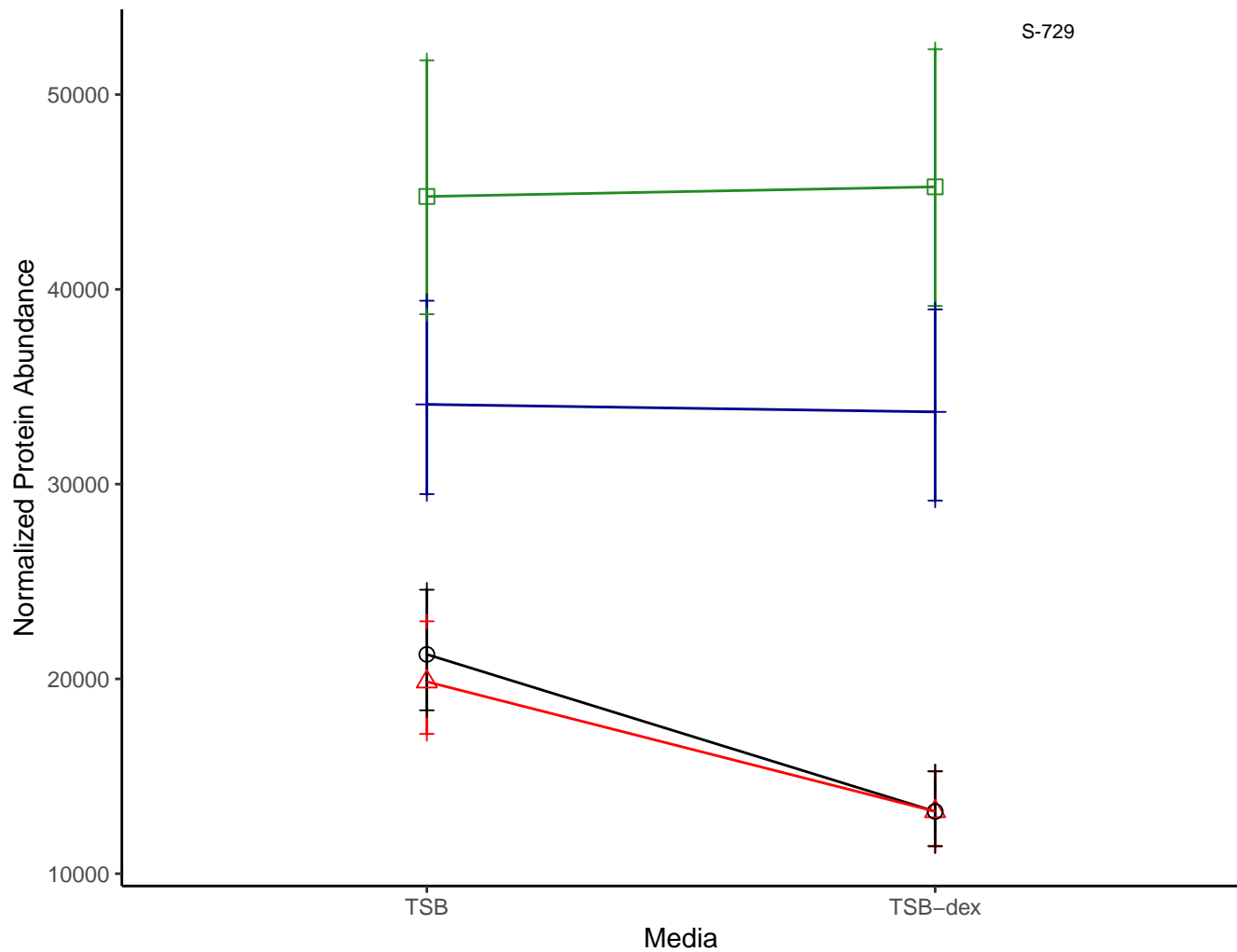


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# NDK\_STAAM

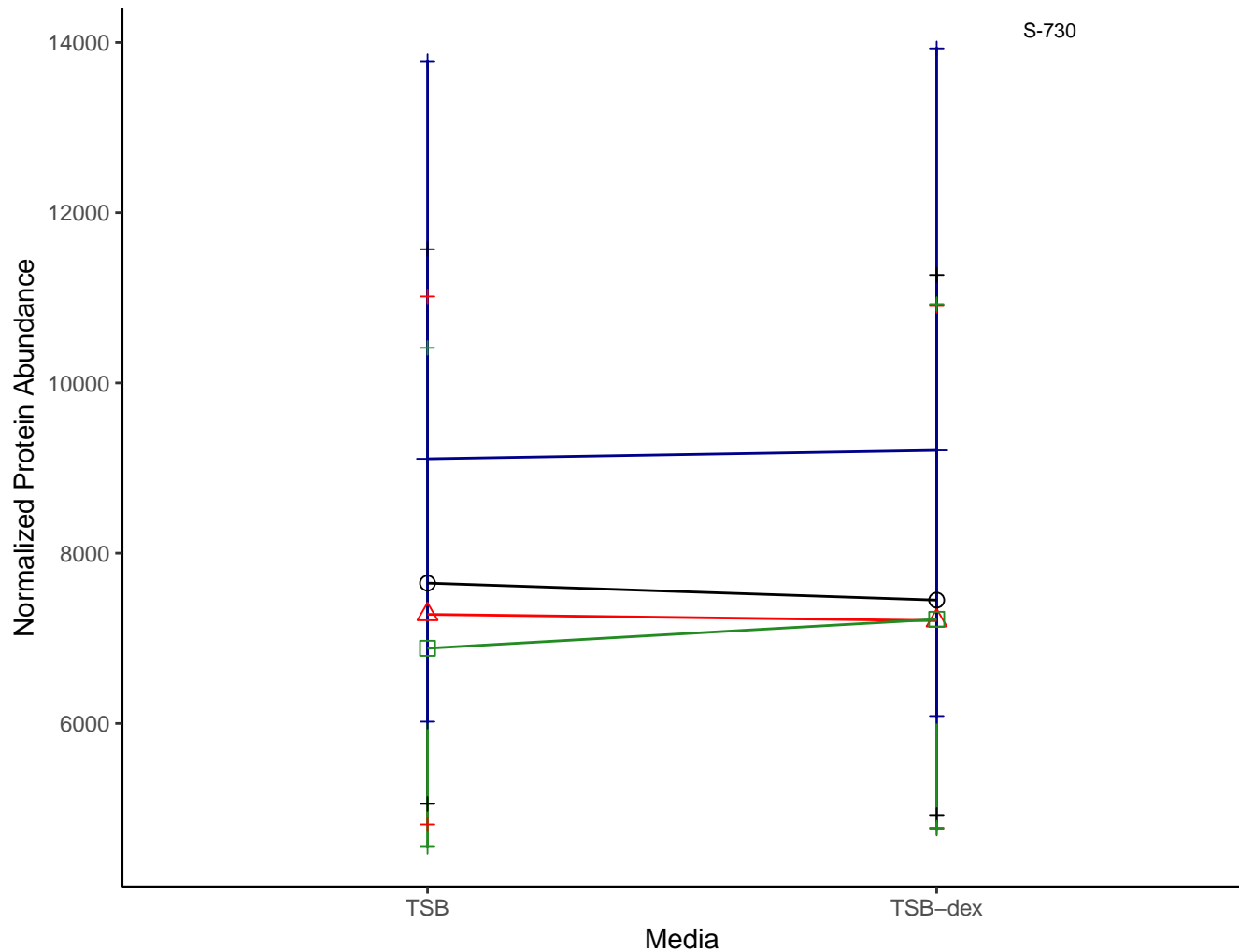
S-729



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## NRDR\_STAAM

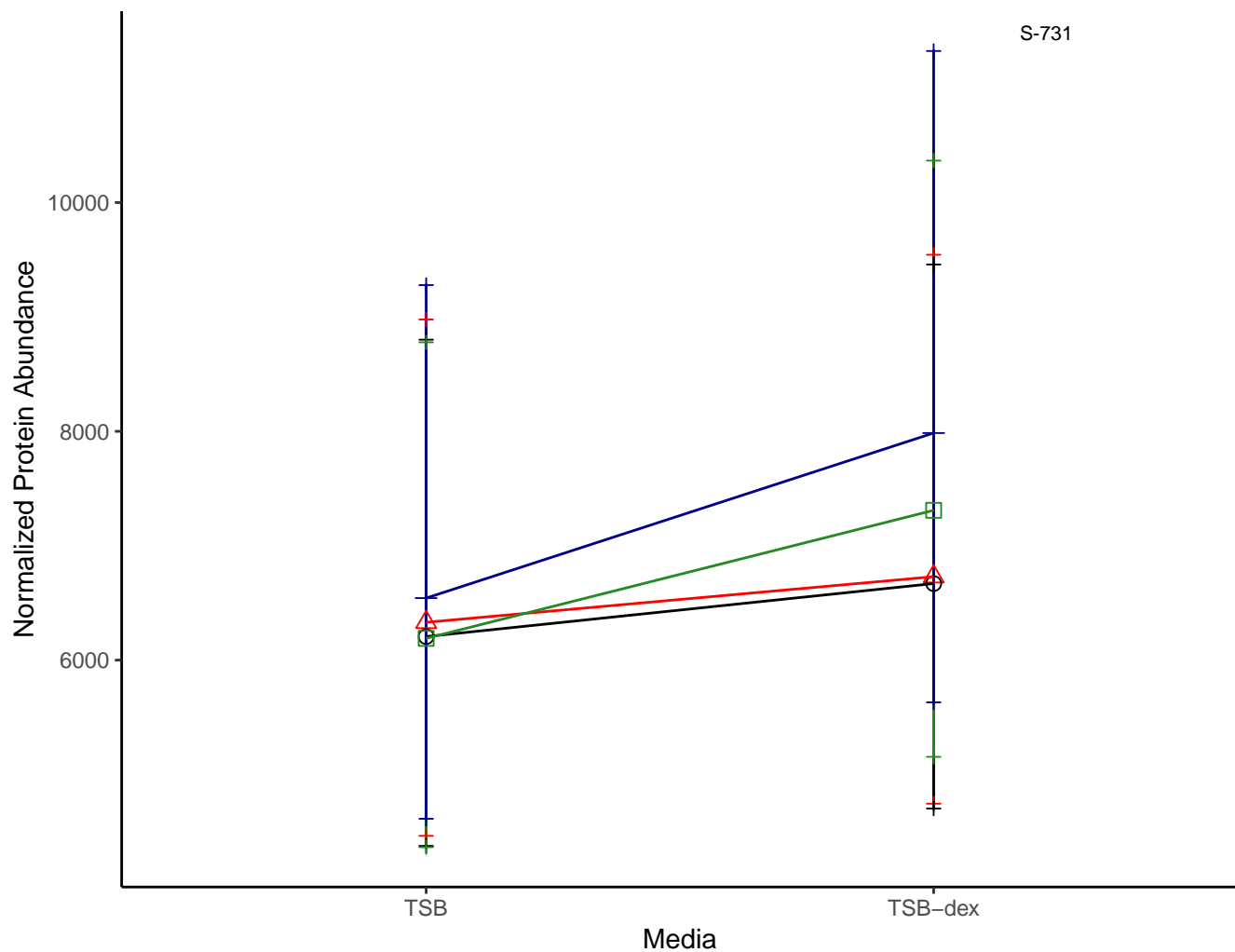
S-730



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NREB\_STAAM

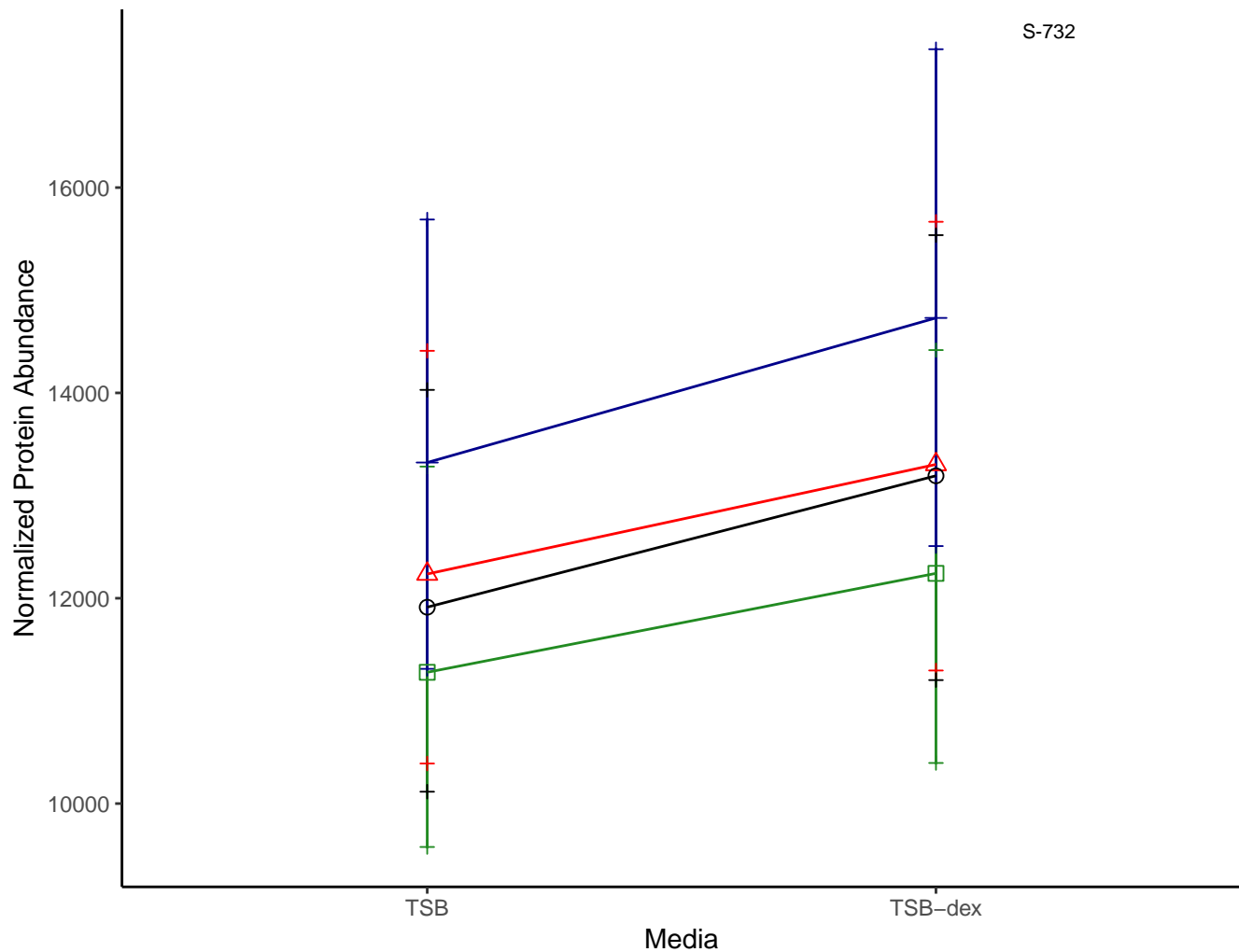
S-731



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NUSG\_STAAM

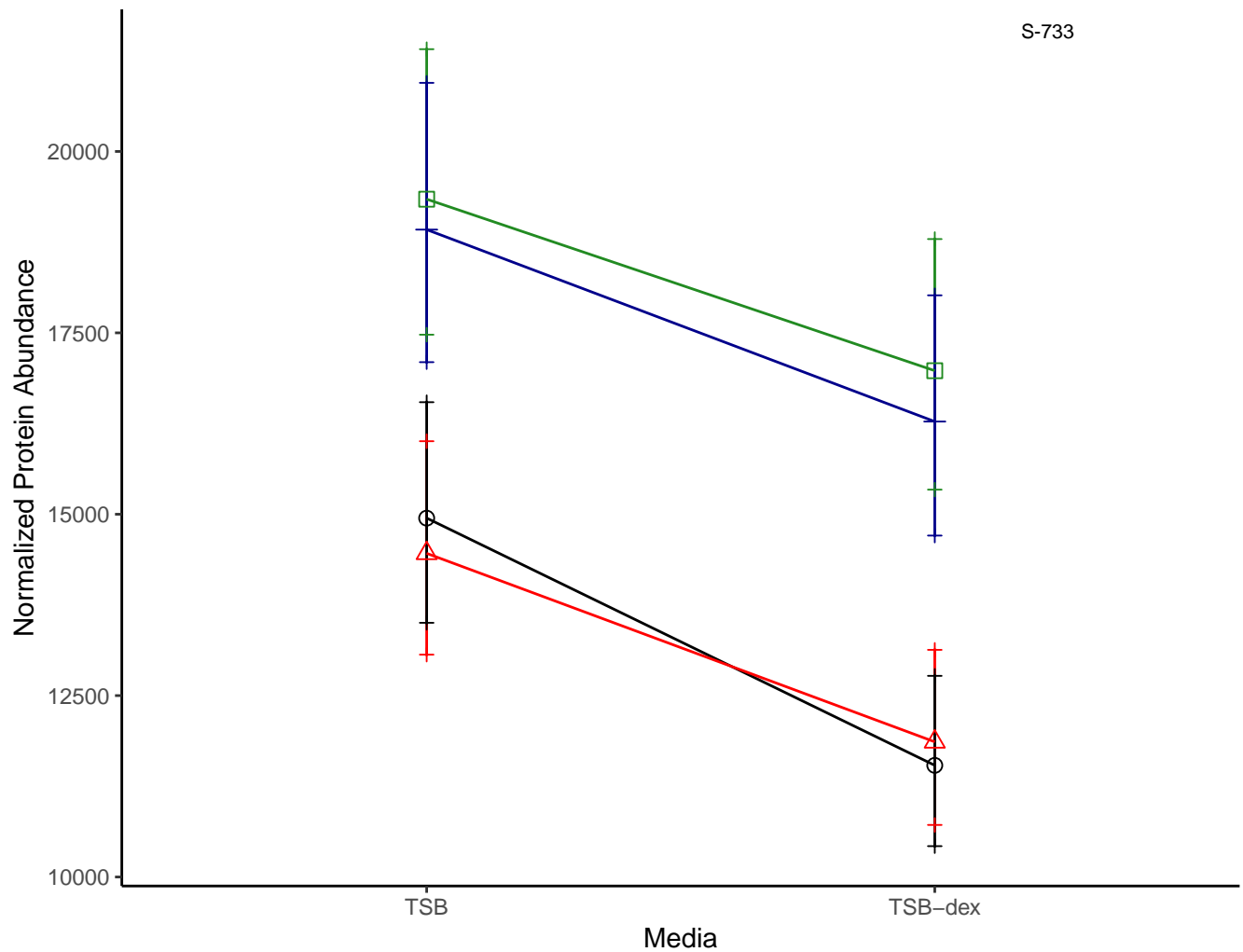
S-732



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# OAT2\_STAAM

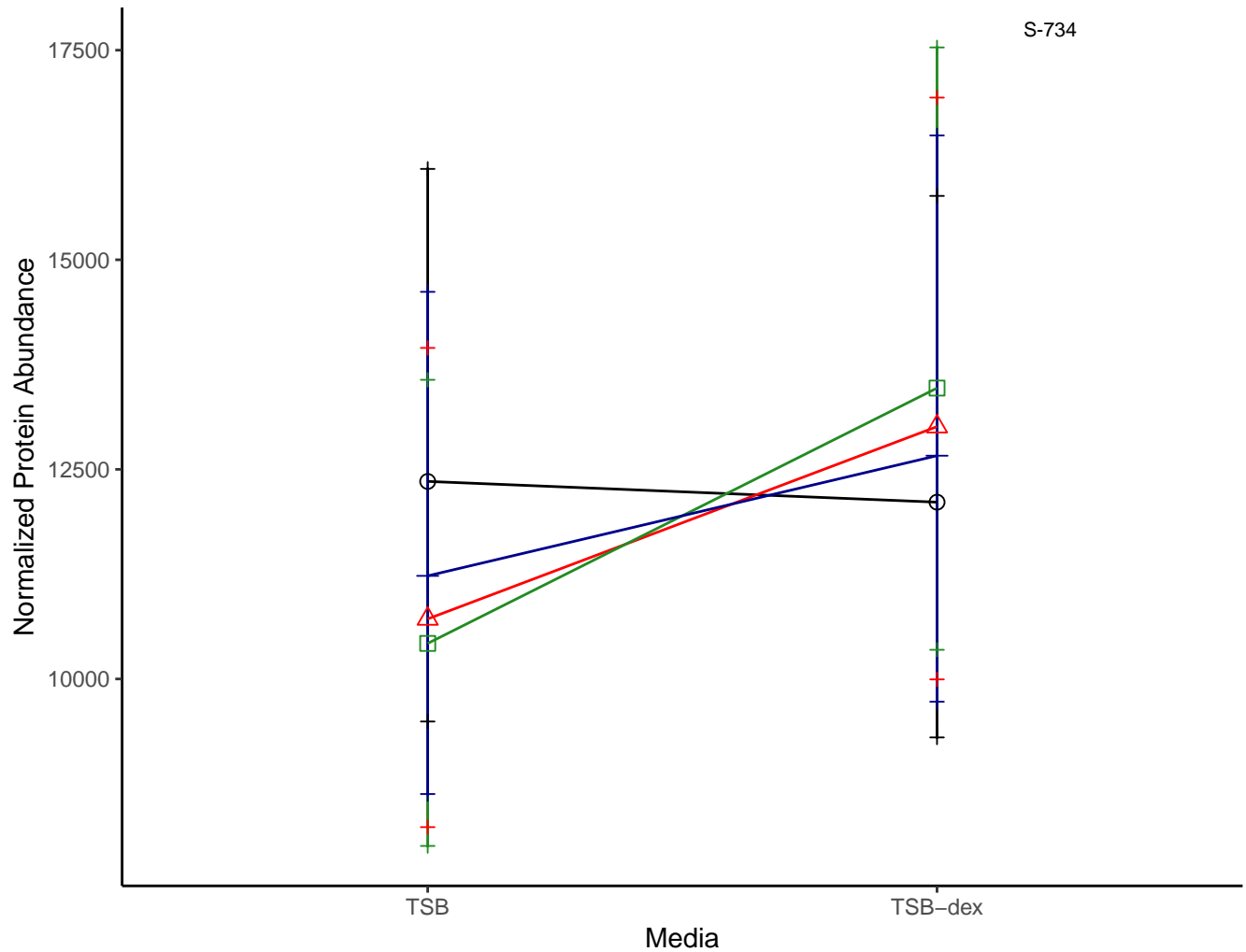
S-733



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# OBG\_STAAM

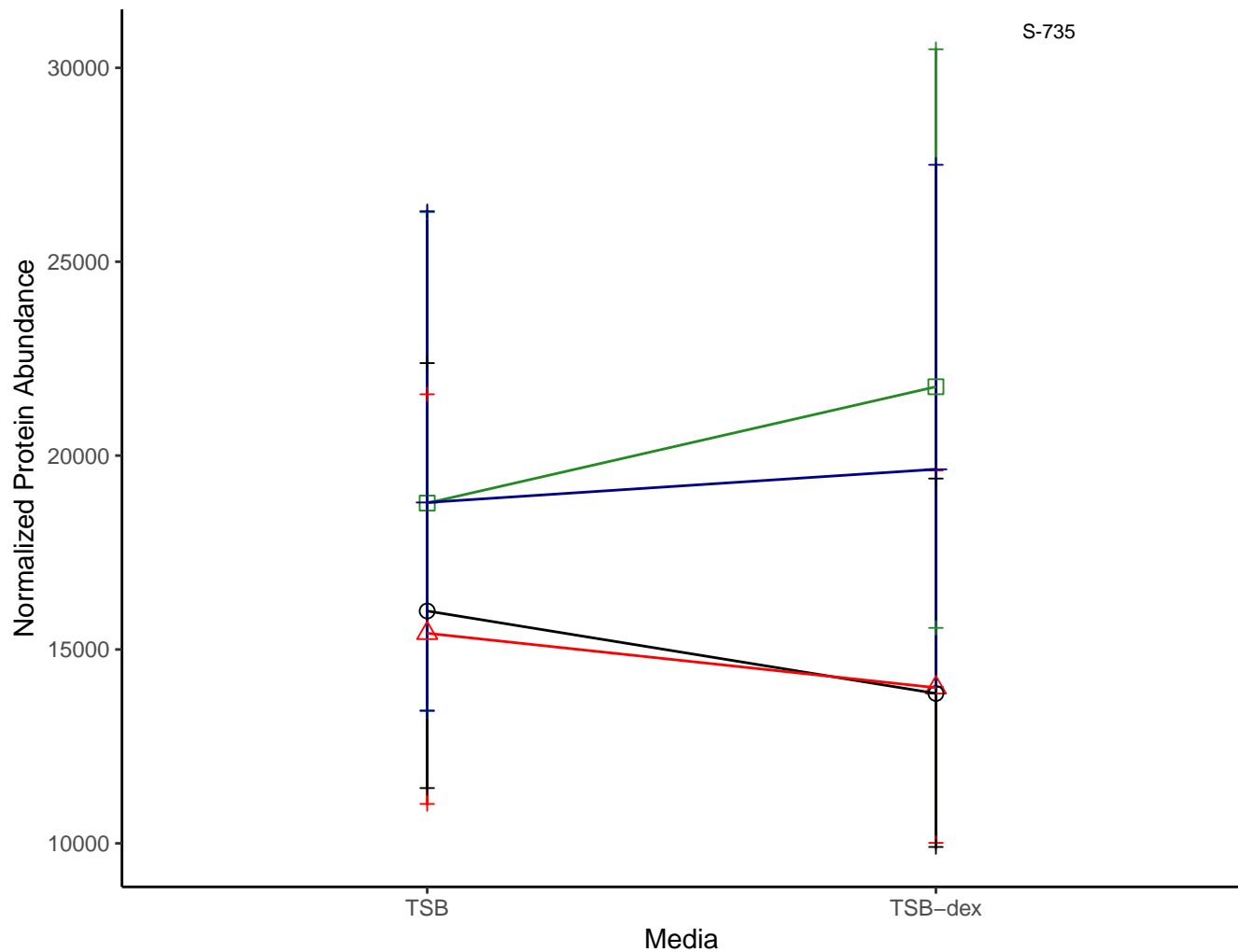
S-734



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODO1\_STAAM

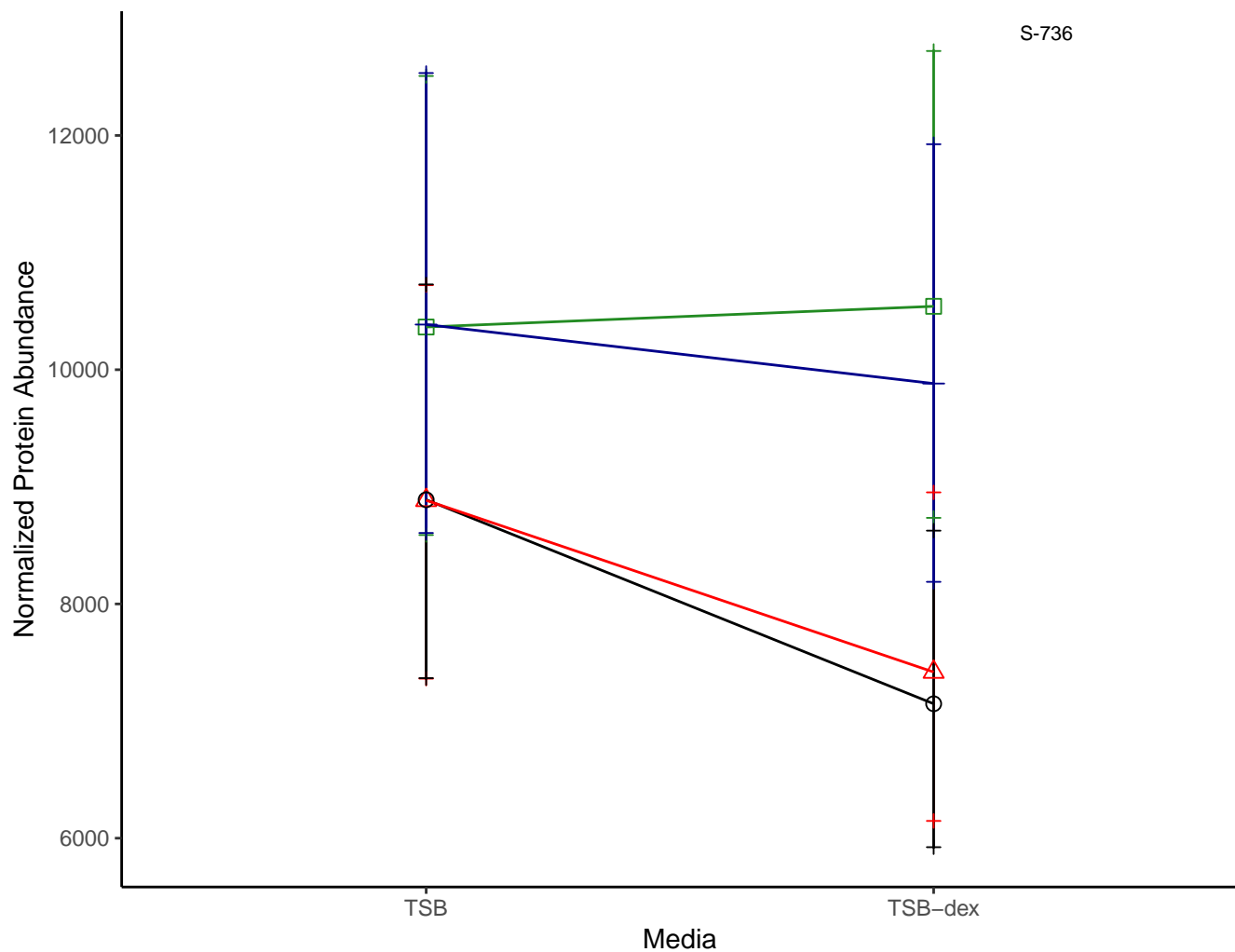
S-735



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ODO2\_STAAM

S-736



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA



# ODP2\_STAAM

S-737

Normalized Protein Abundance

30000

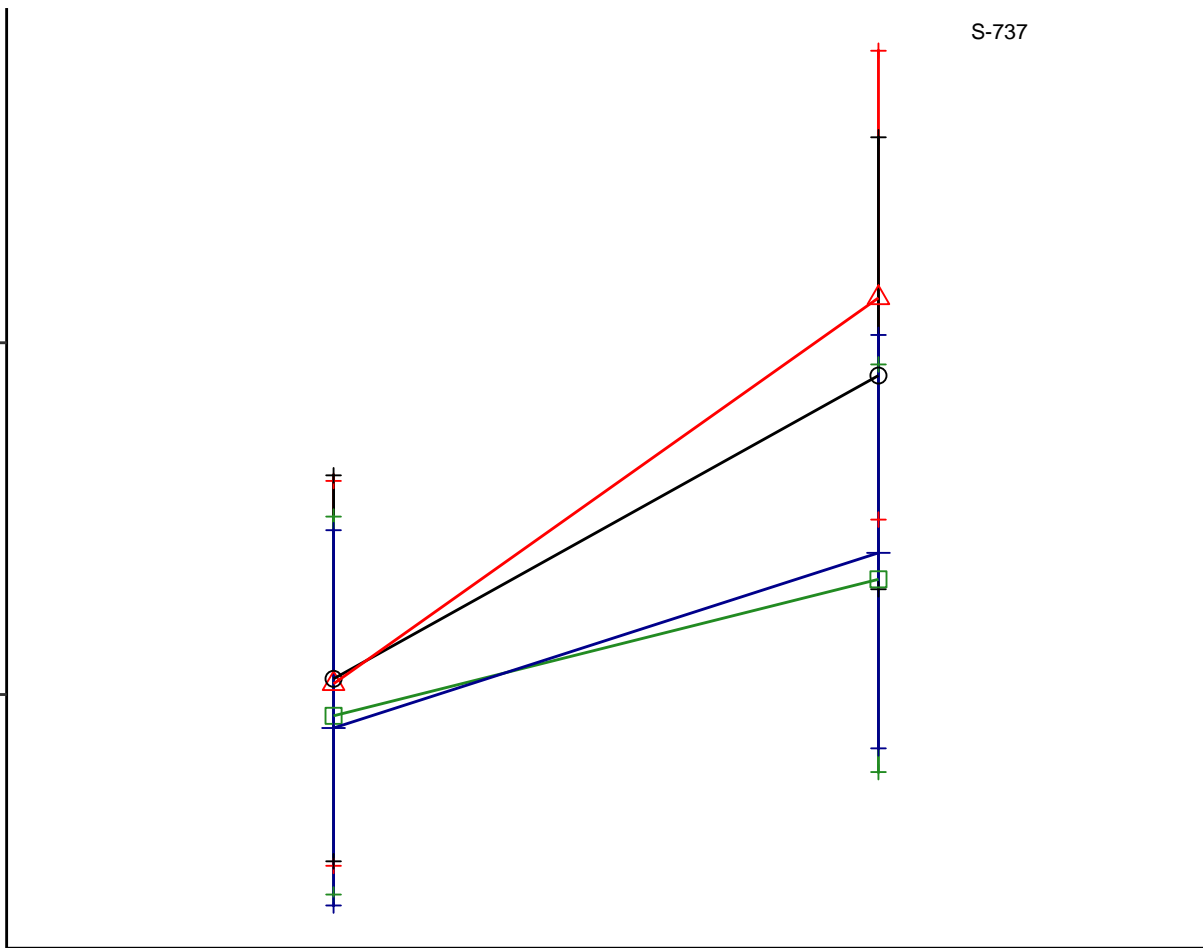
25000

TSB

TSB-dex

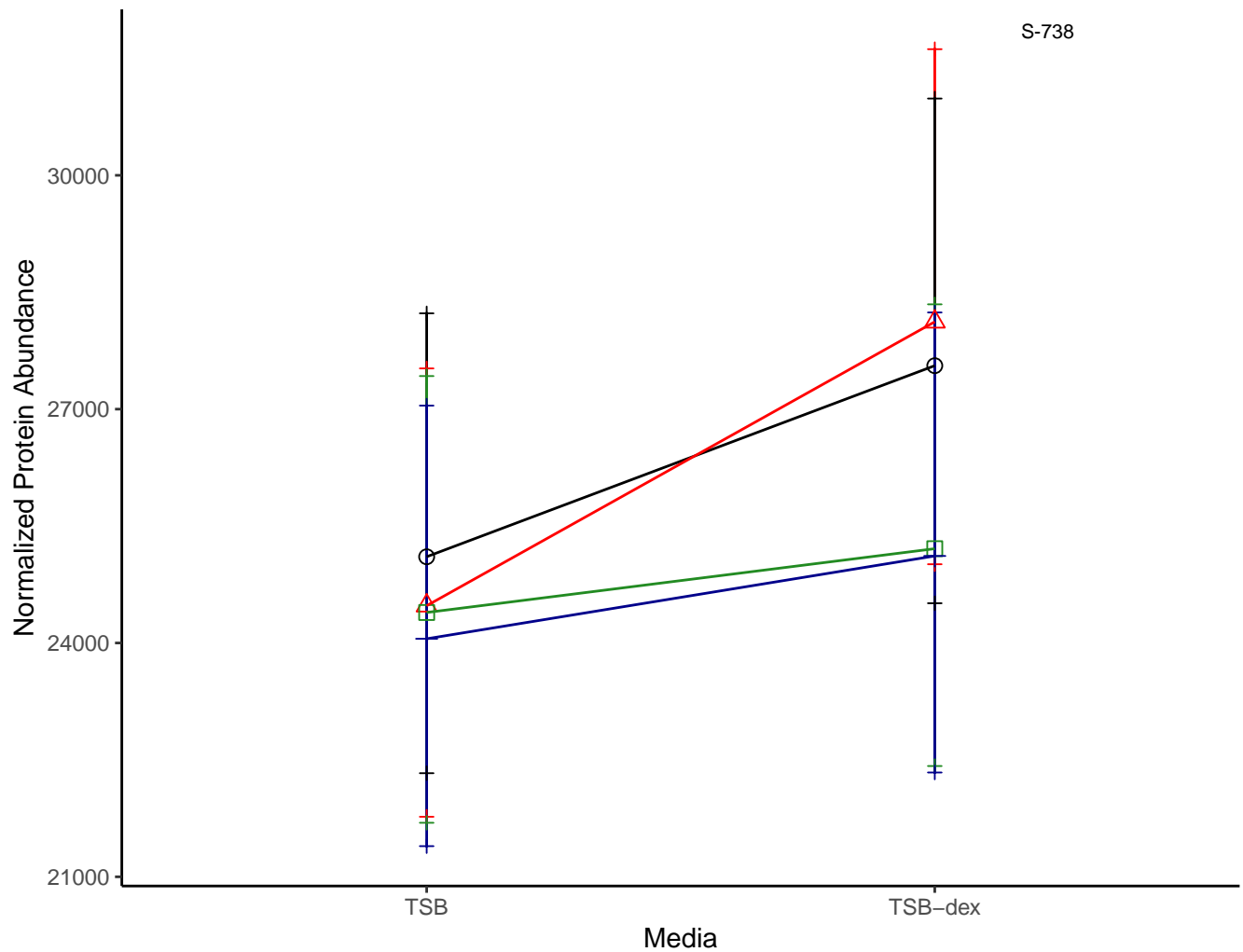
Media

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ODPA\_STAAM

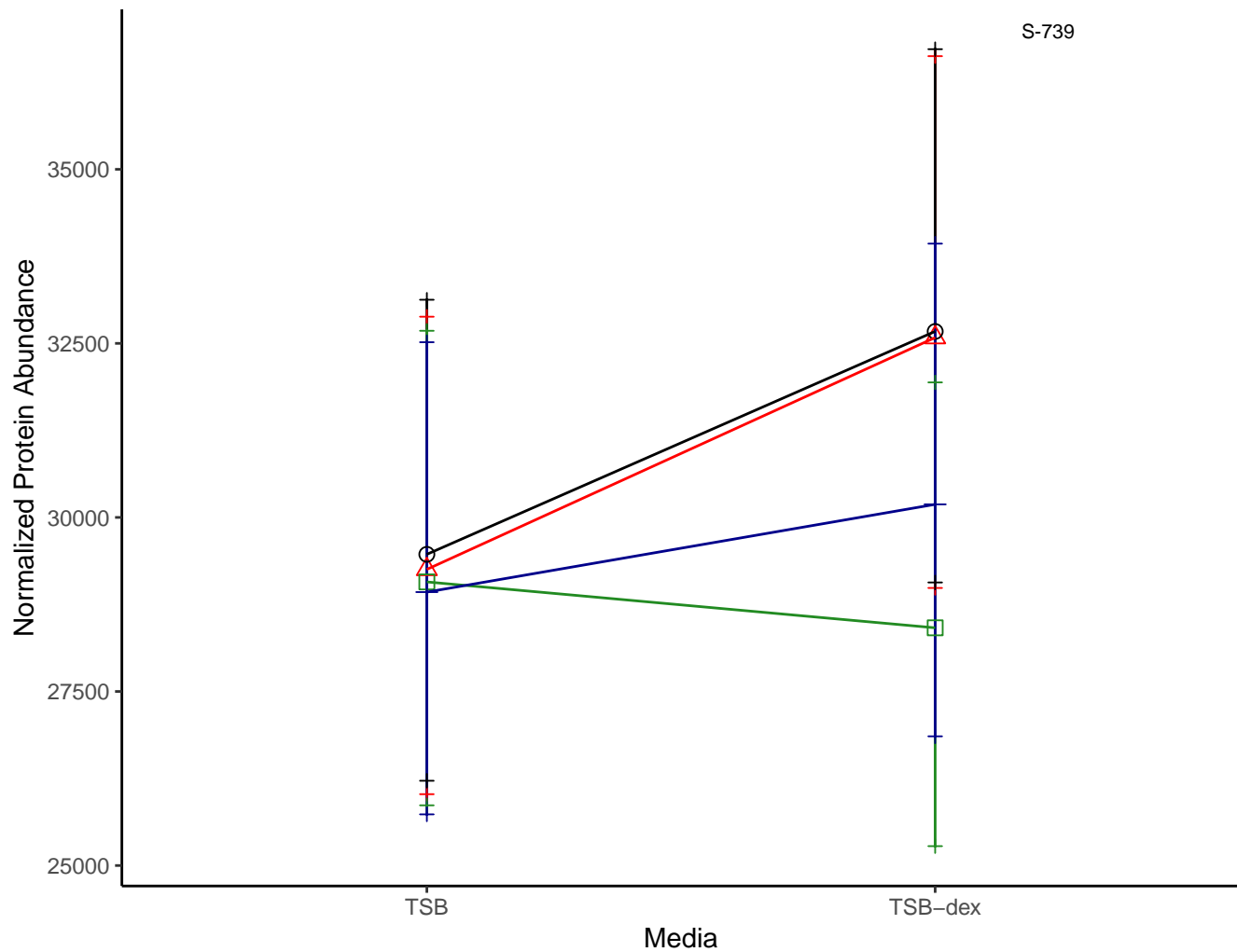
S-738



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ODPB\_STAAM

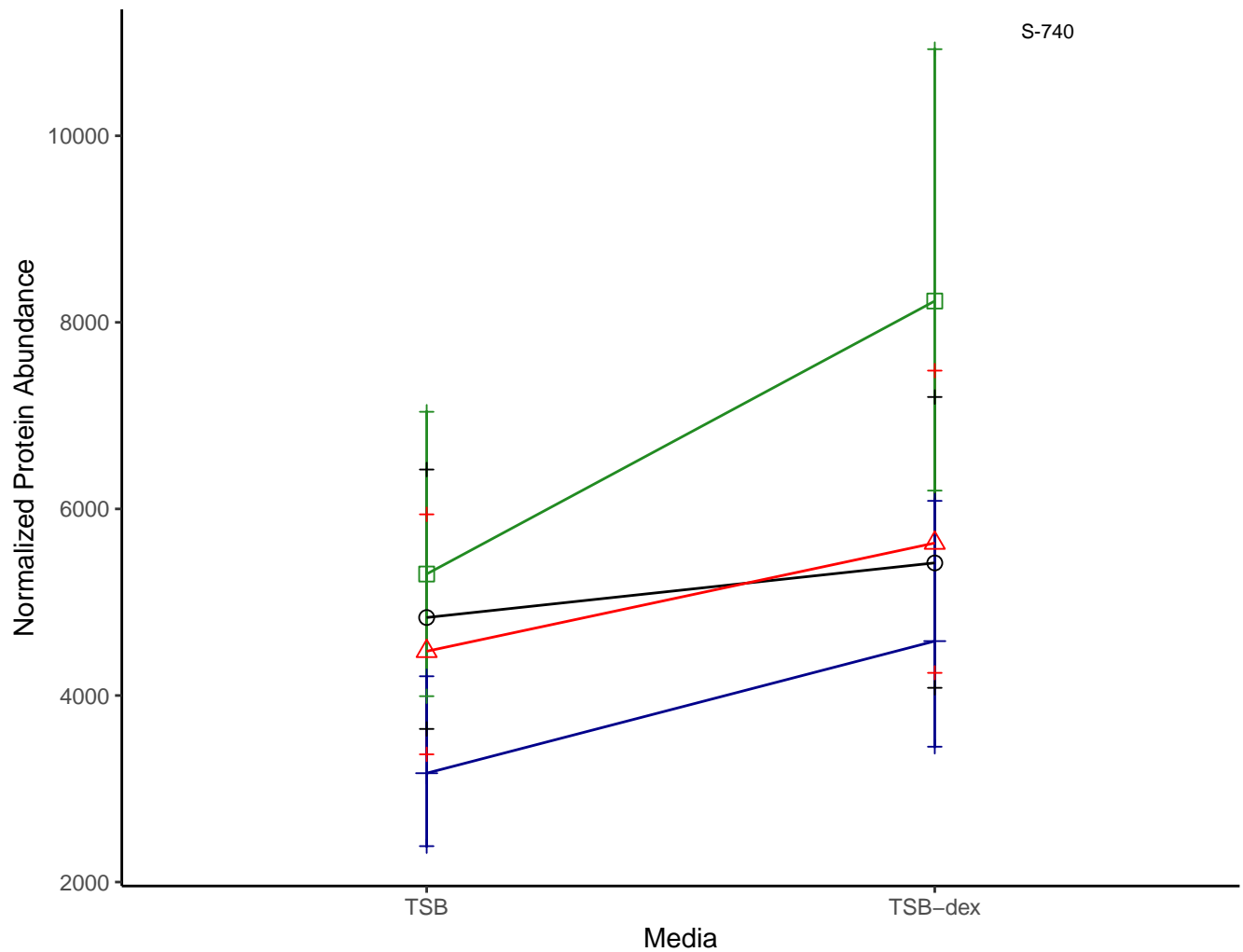
S-739



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# OHRL\_STAAM

S-740



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# OTC\_STAAM

S-741

Normalized Protein Abundance

15000

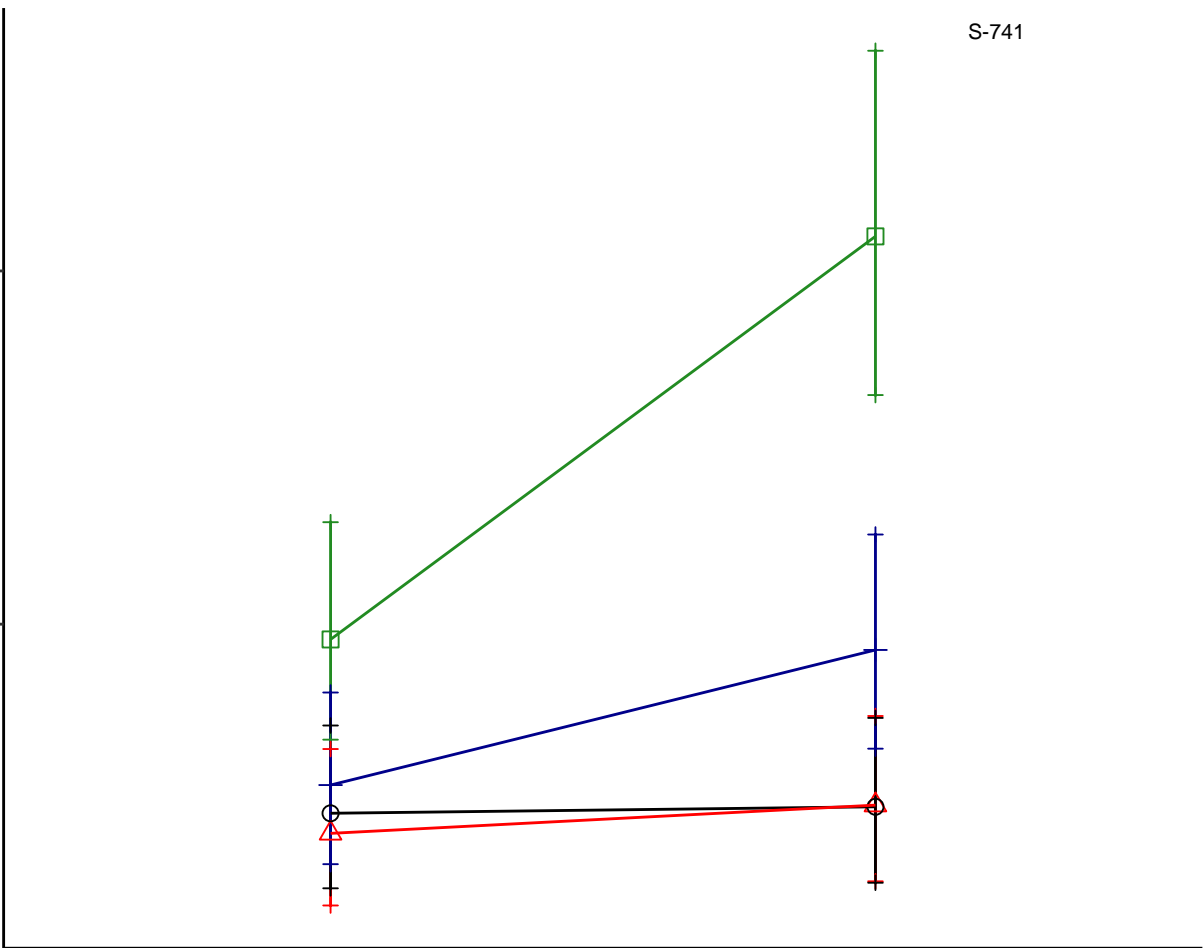
10000

TSB

TSB-dex

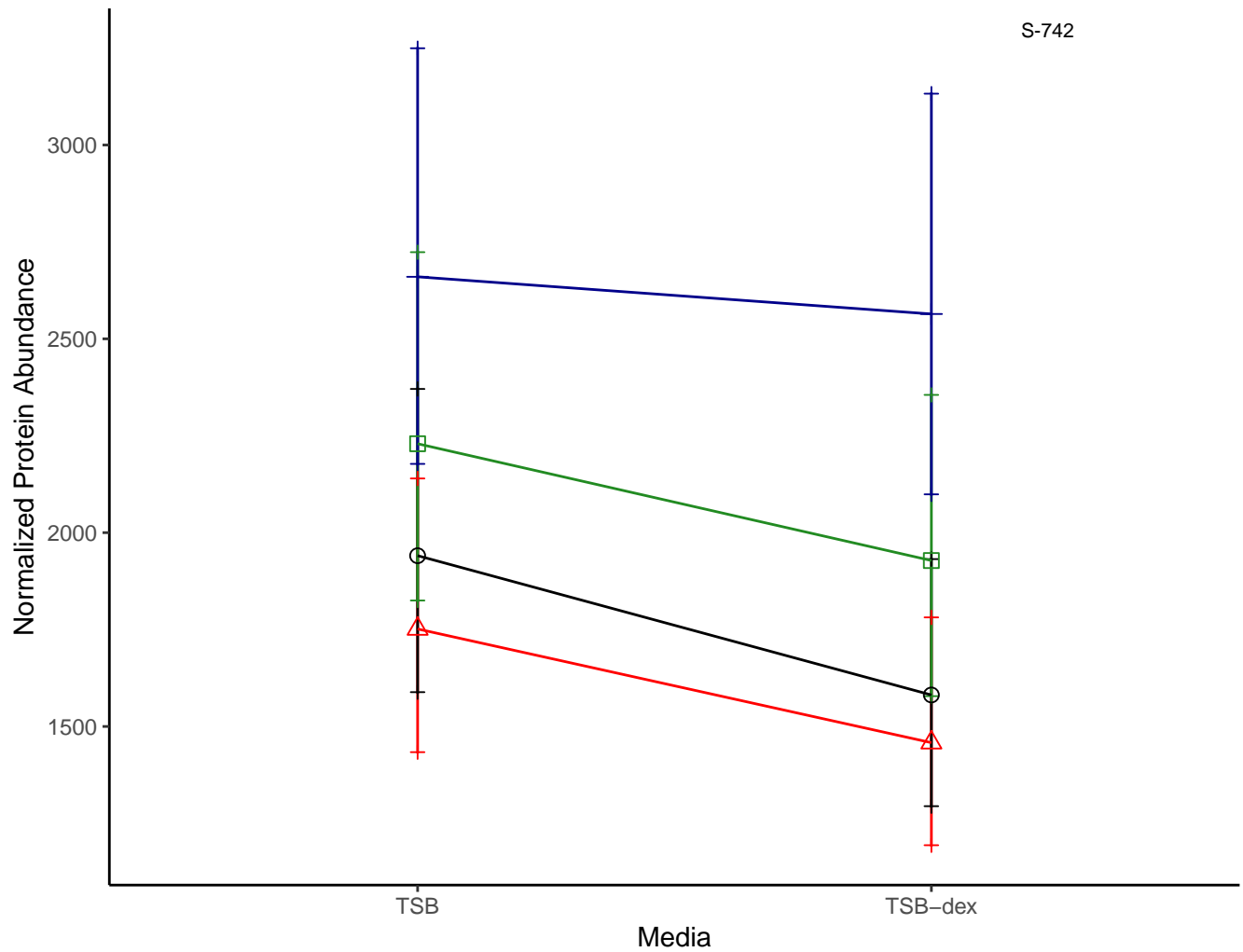
Media

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# OTCC\_STAAM

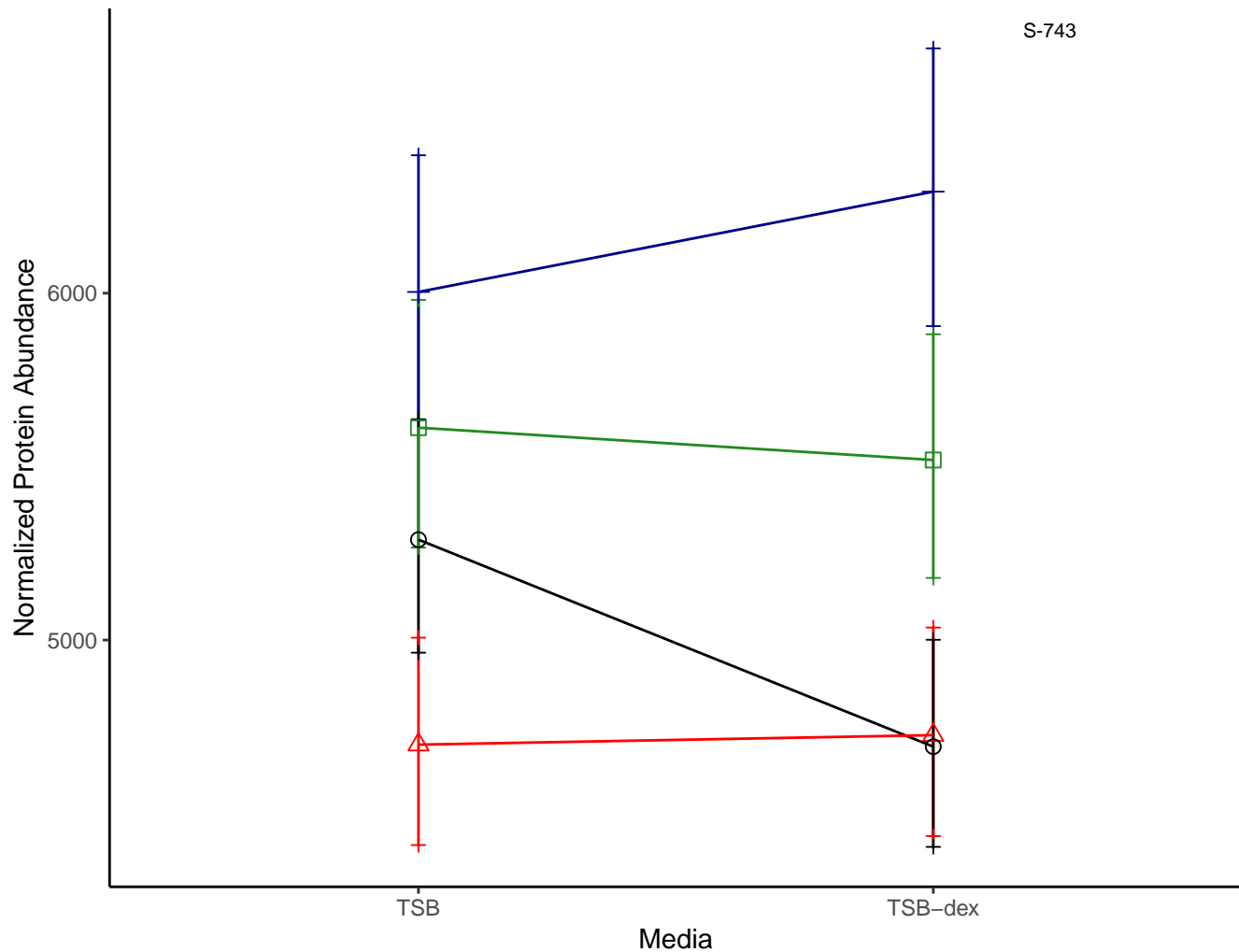
S-742



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# P5CR\_STAAM

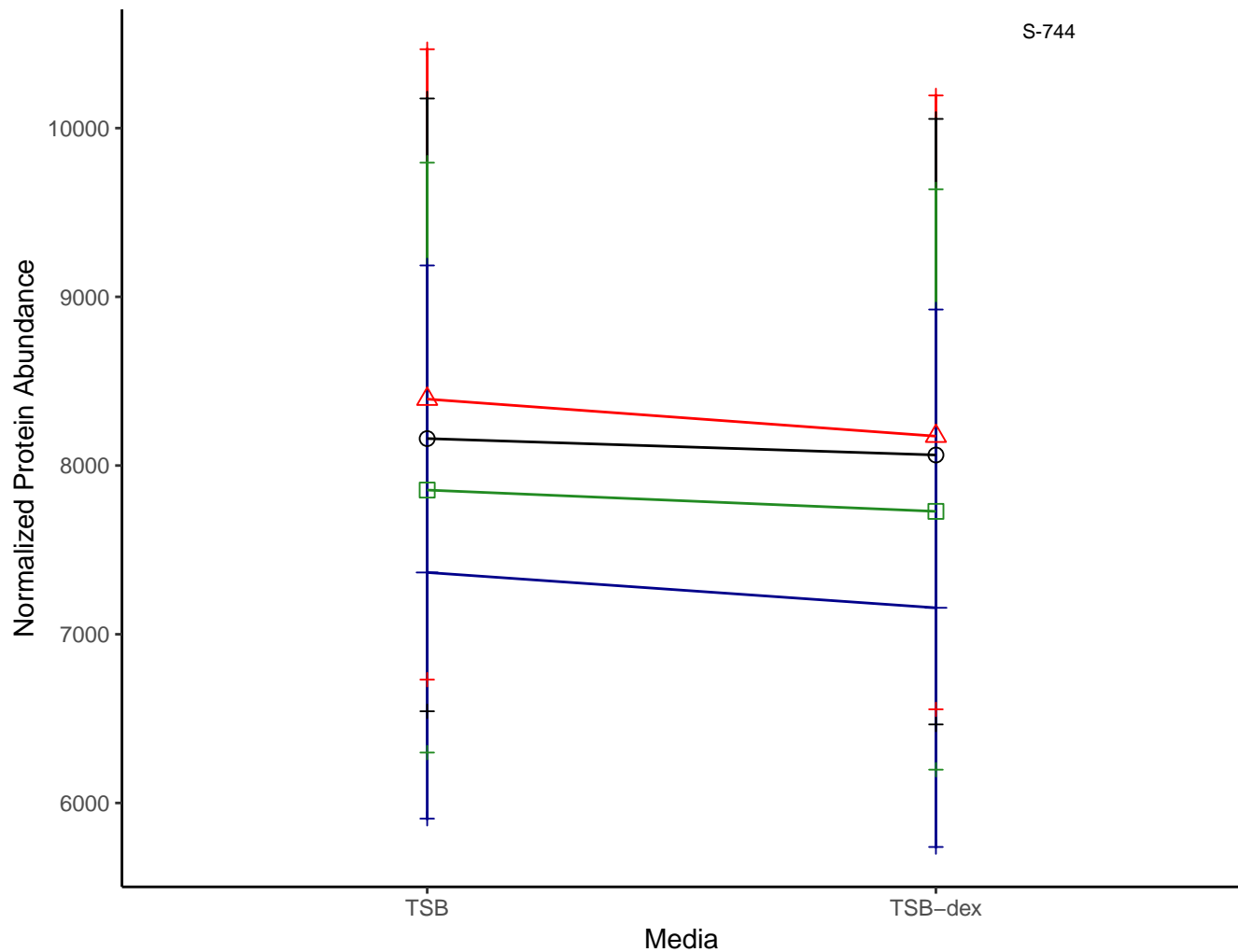
S-743



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PANB\_STAAM

S-744

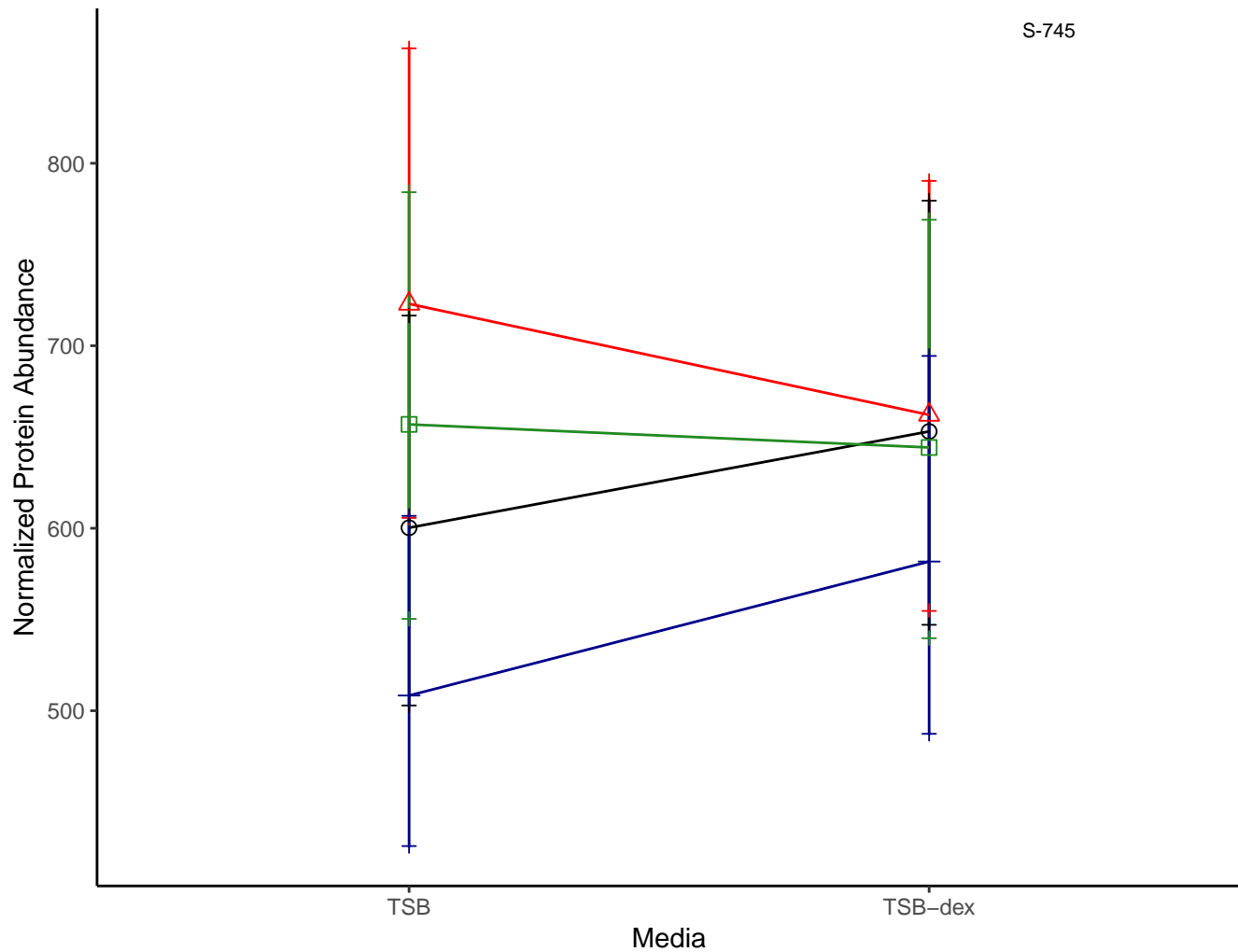


- ⊕ SA564
- △ SA564-Δ*hptRS*
- ⊞ SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



# PAND\_STAAM

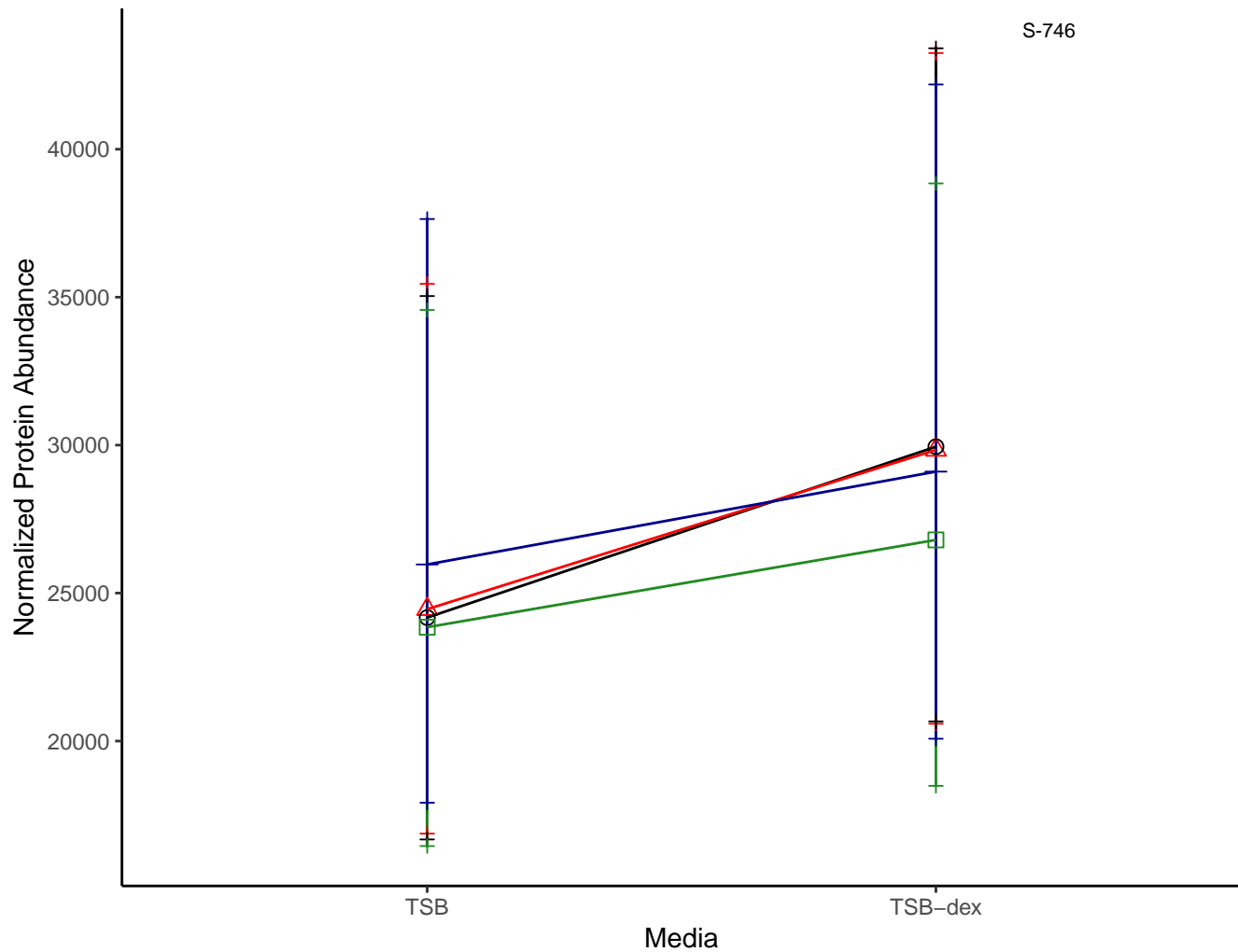
S-745



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# PARC\_STAAM

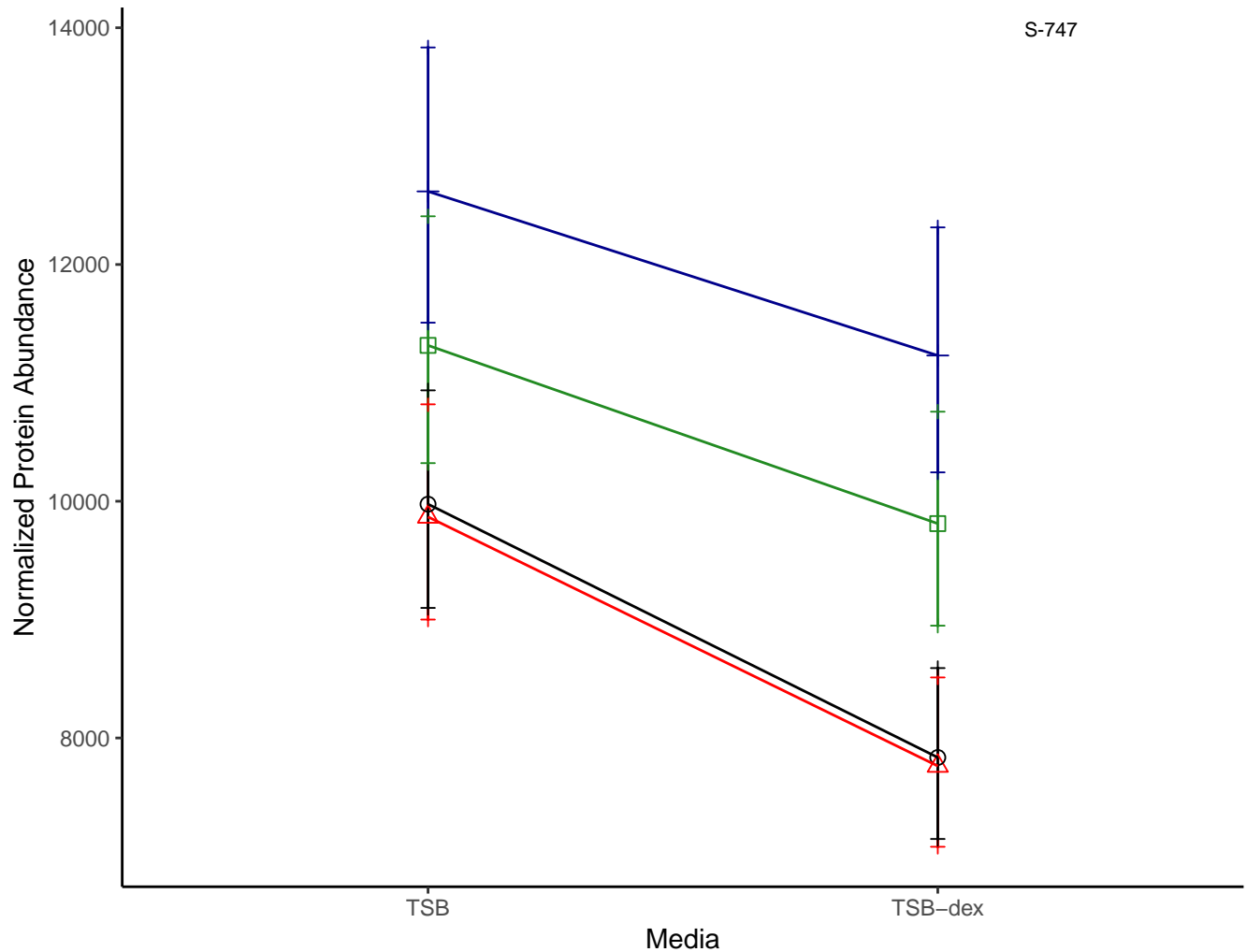
S-746



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PCKA\_STAAM

S-747



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PCRA\_STAAM

S-748

Normalized Protein Abundance

2000

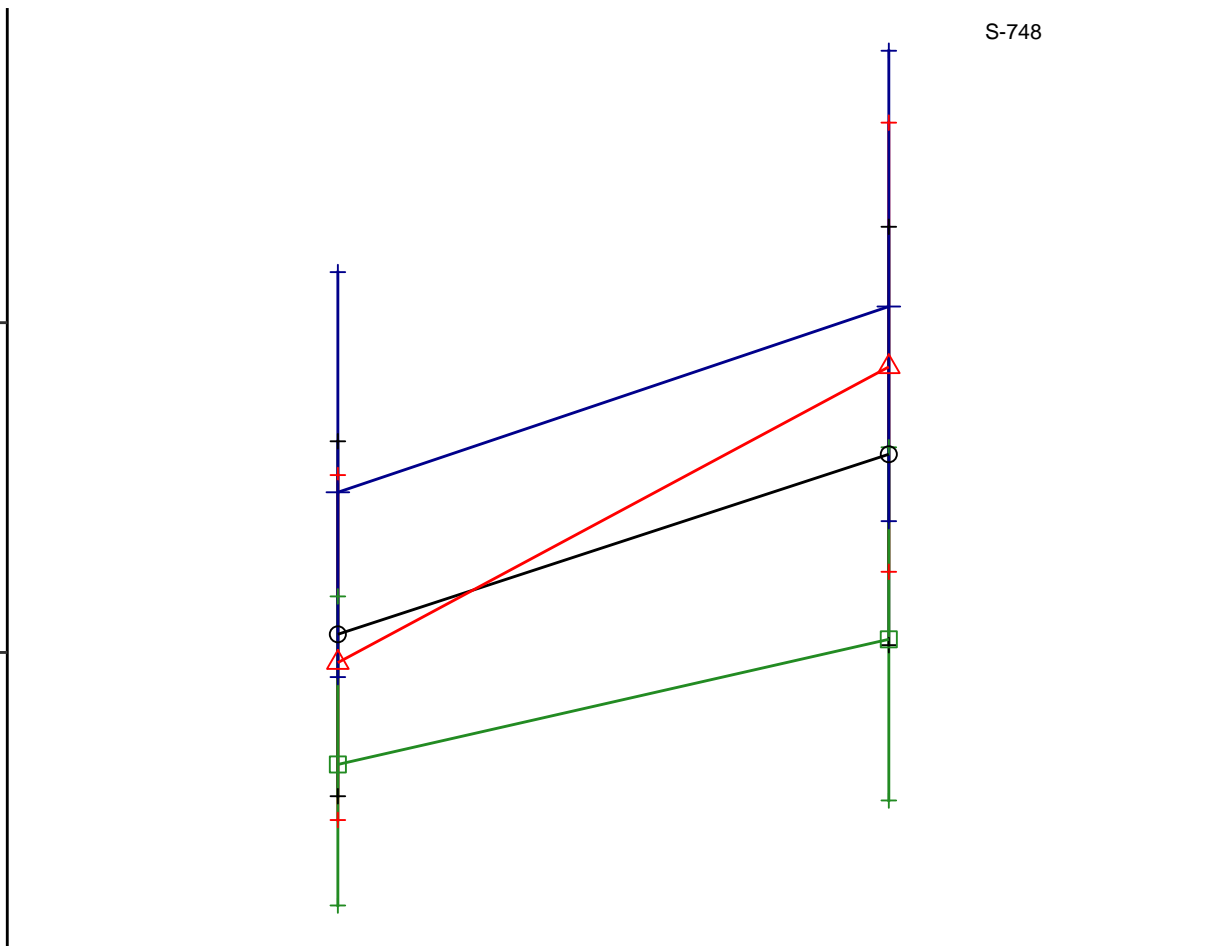
1500

TSB

TSB-dex

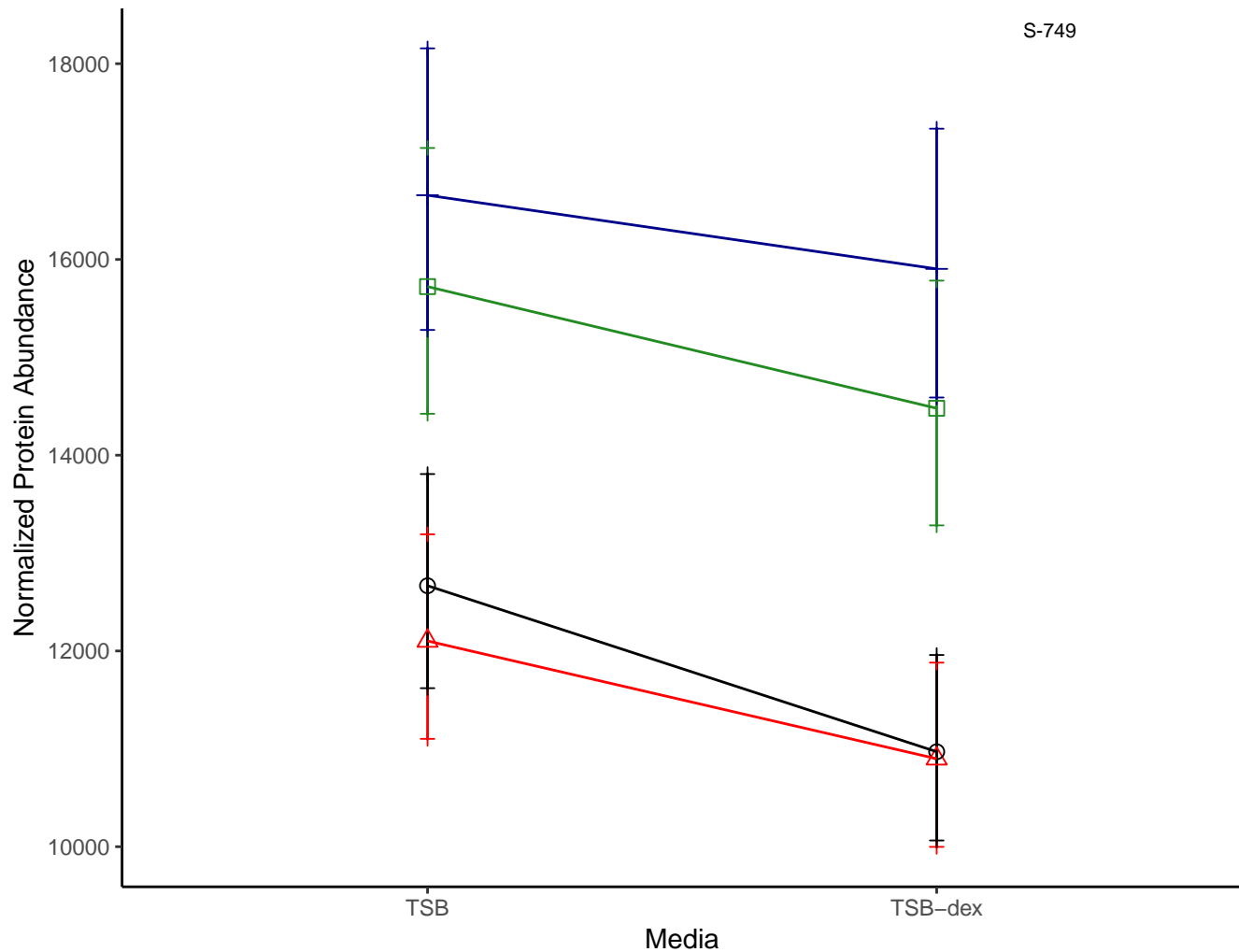
Media

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PDP\_STAAM

S-749



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PDRP\_STAAM

S-750

Normalized Protein Abundance

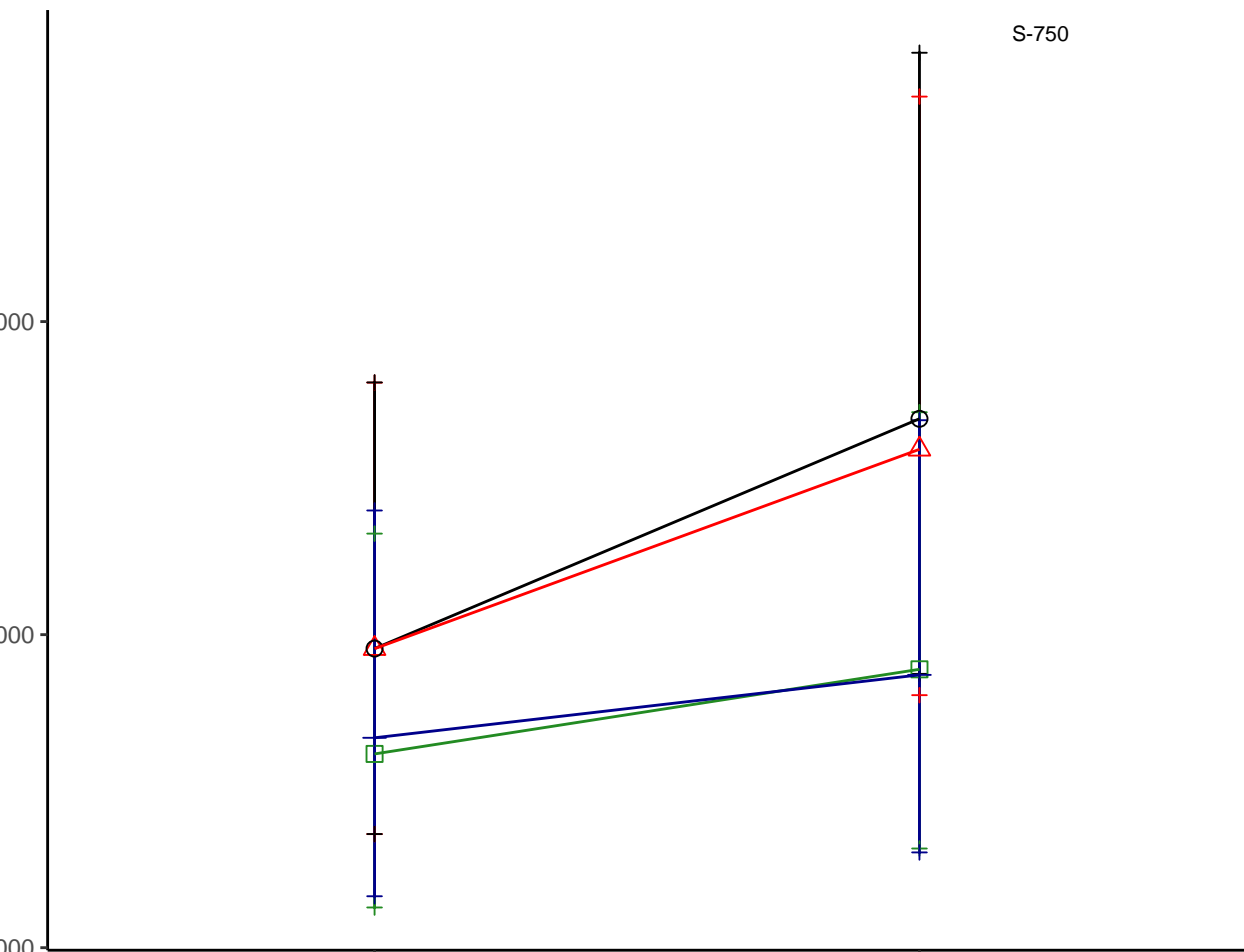
15000  
10000  
5000

TSB

Media

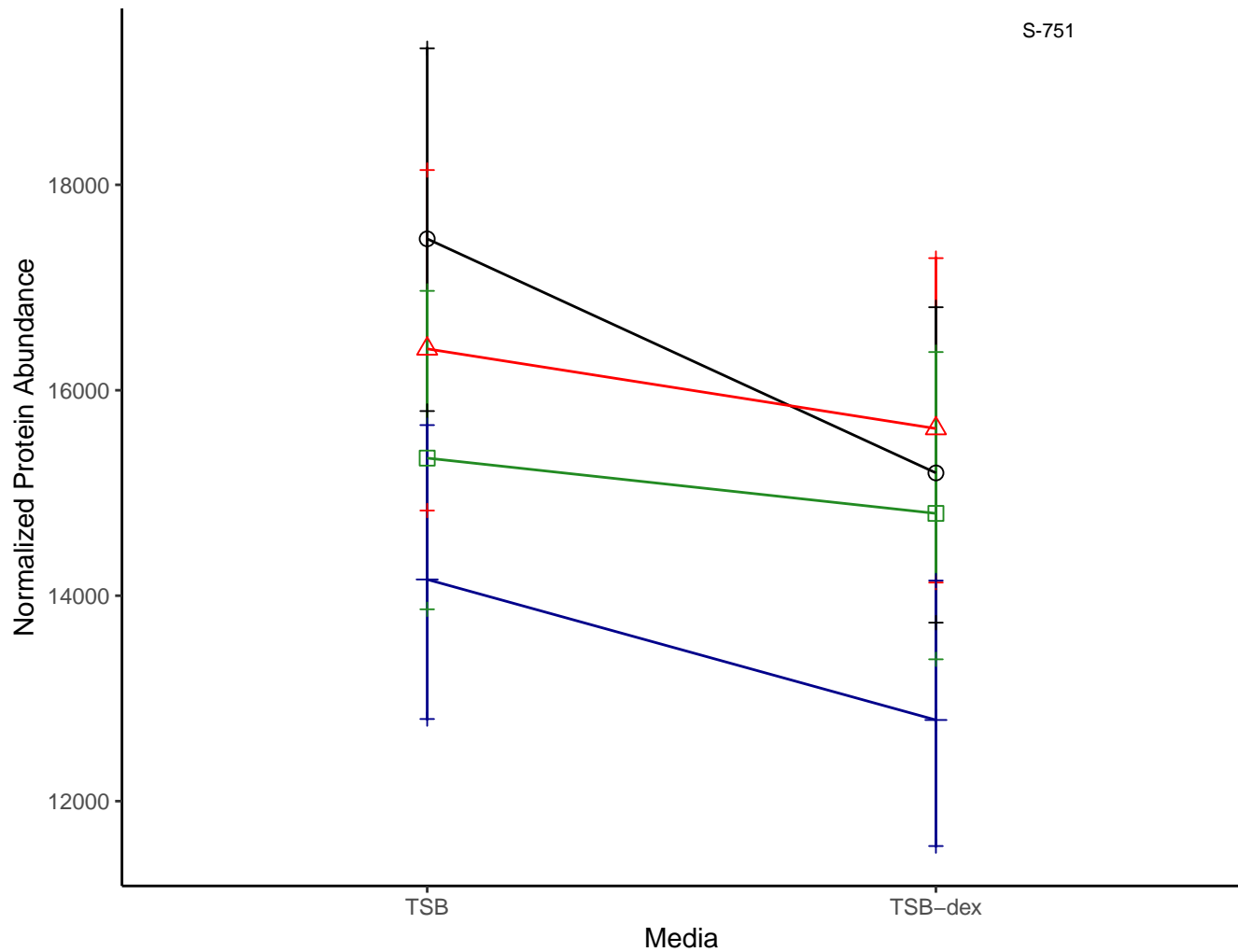
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PDXS\_STAAM

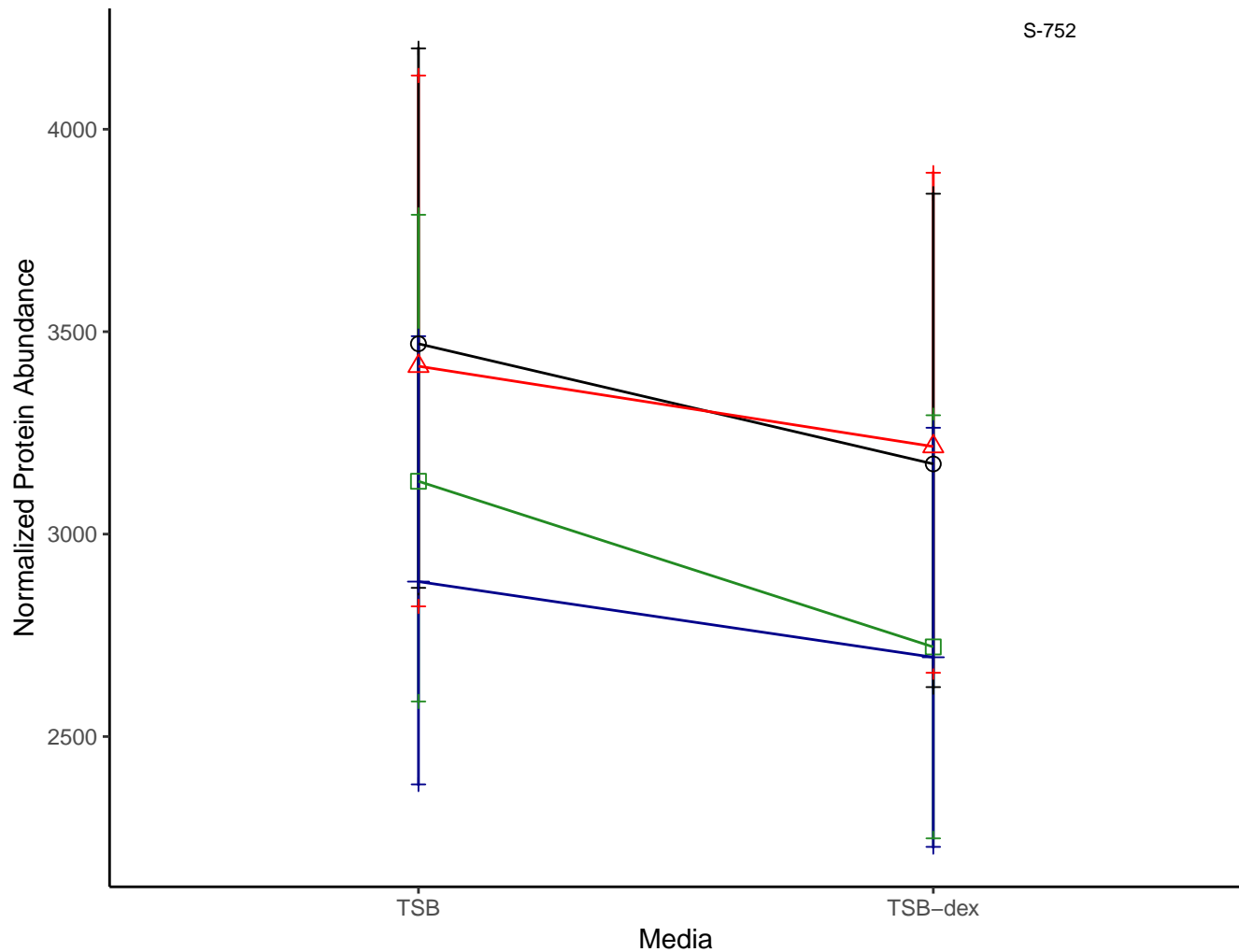
S-751



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# PDXT\_STAAM

S-752

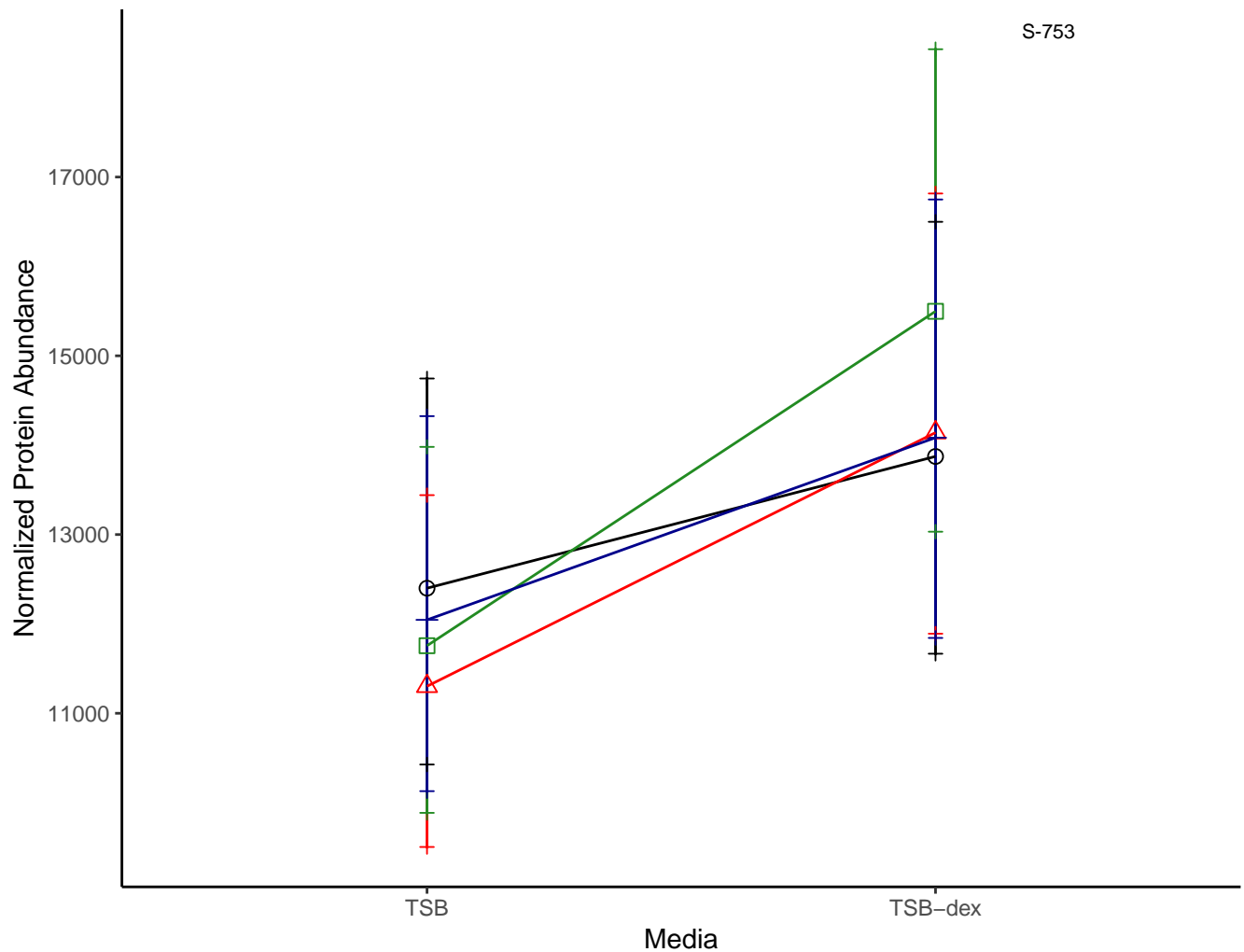


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# PEPVL\_STAAM

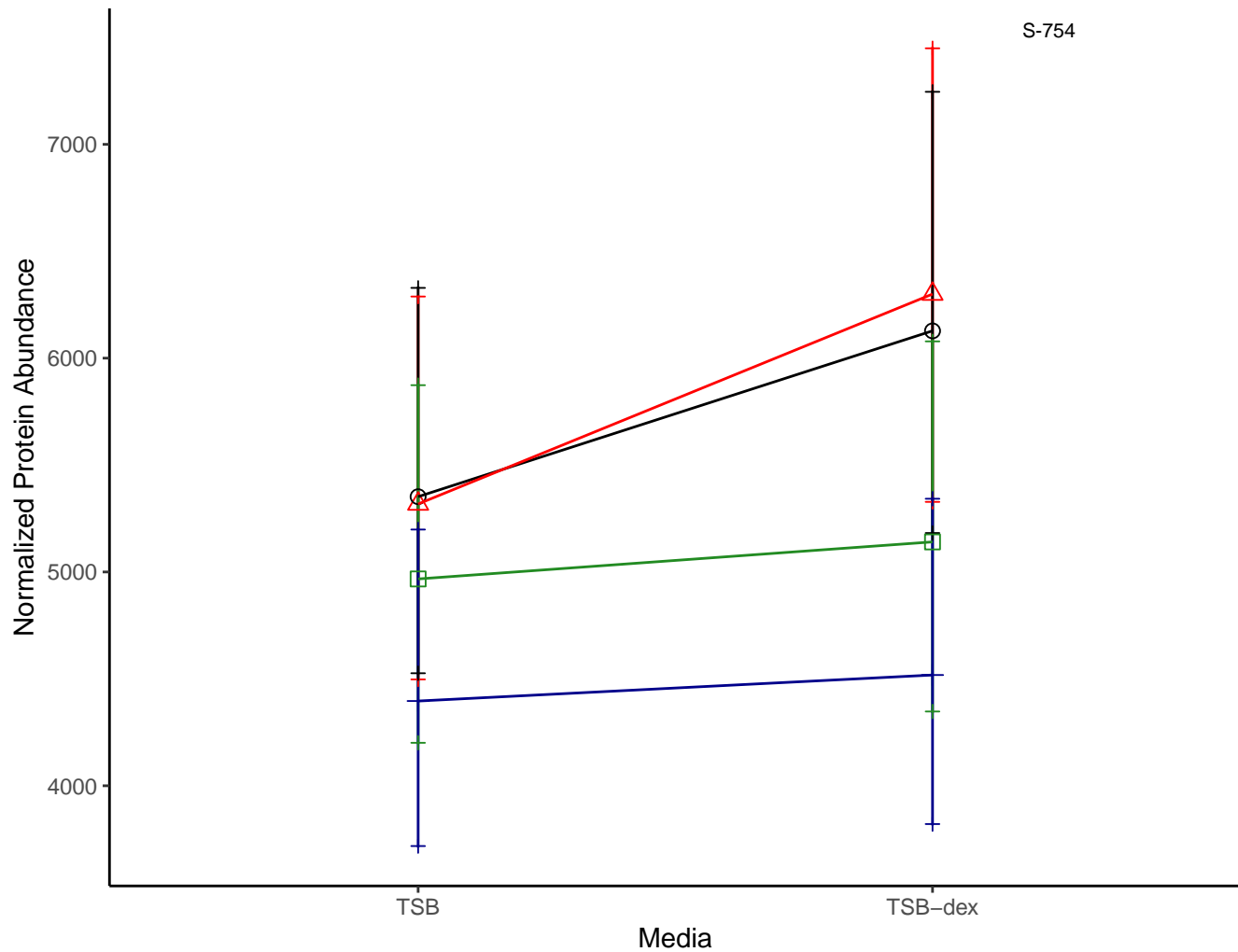
S-753



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PERR\_STAAM

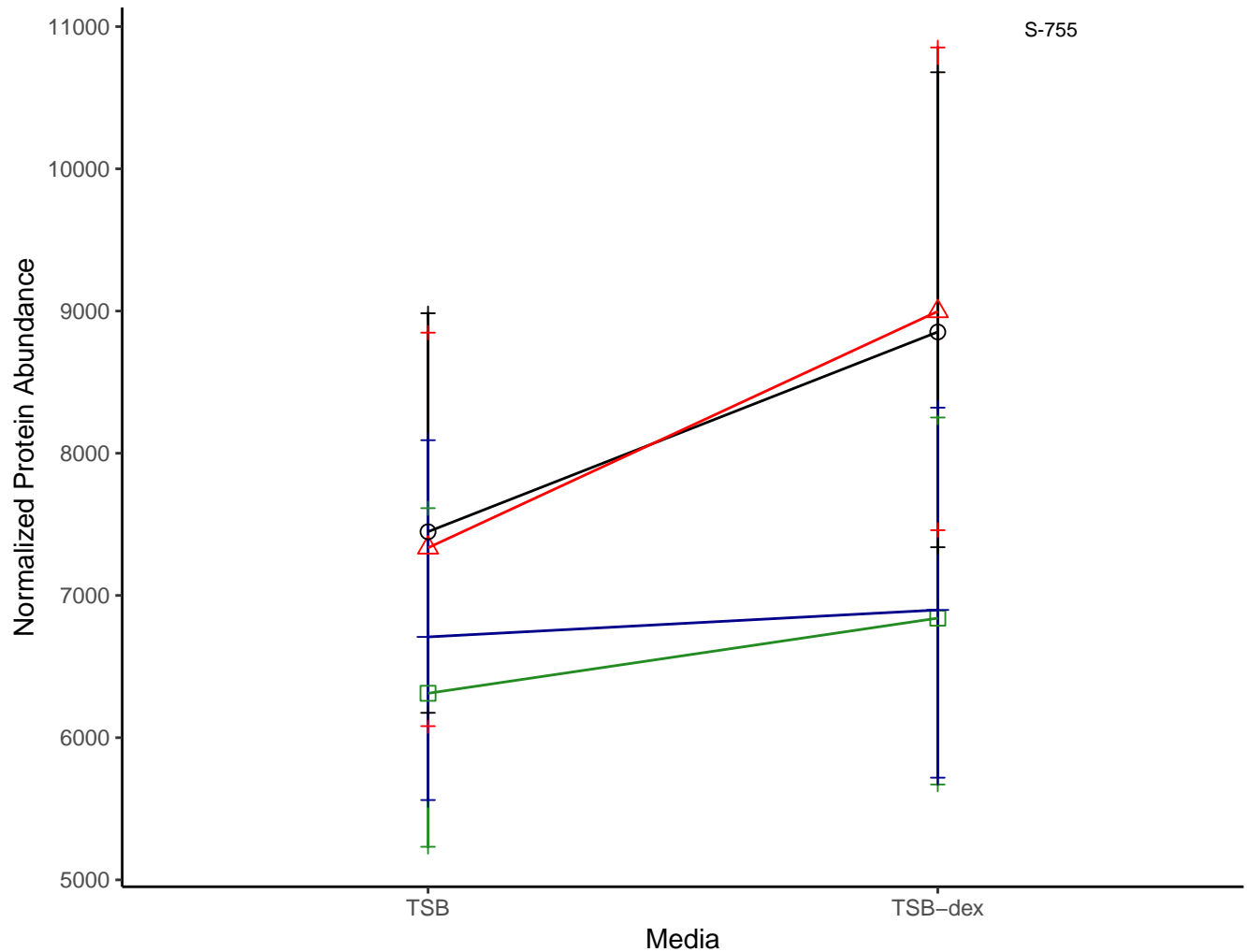
S-754



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PFKA\_STAAM

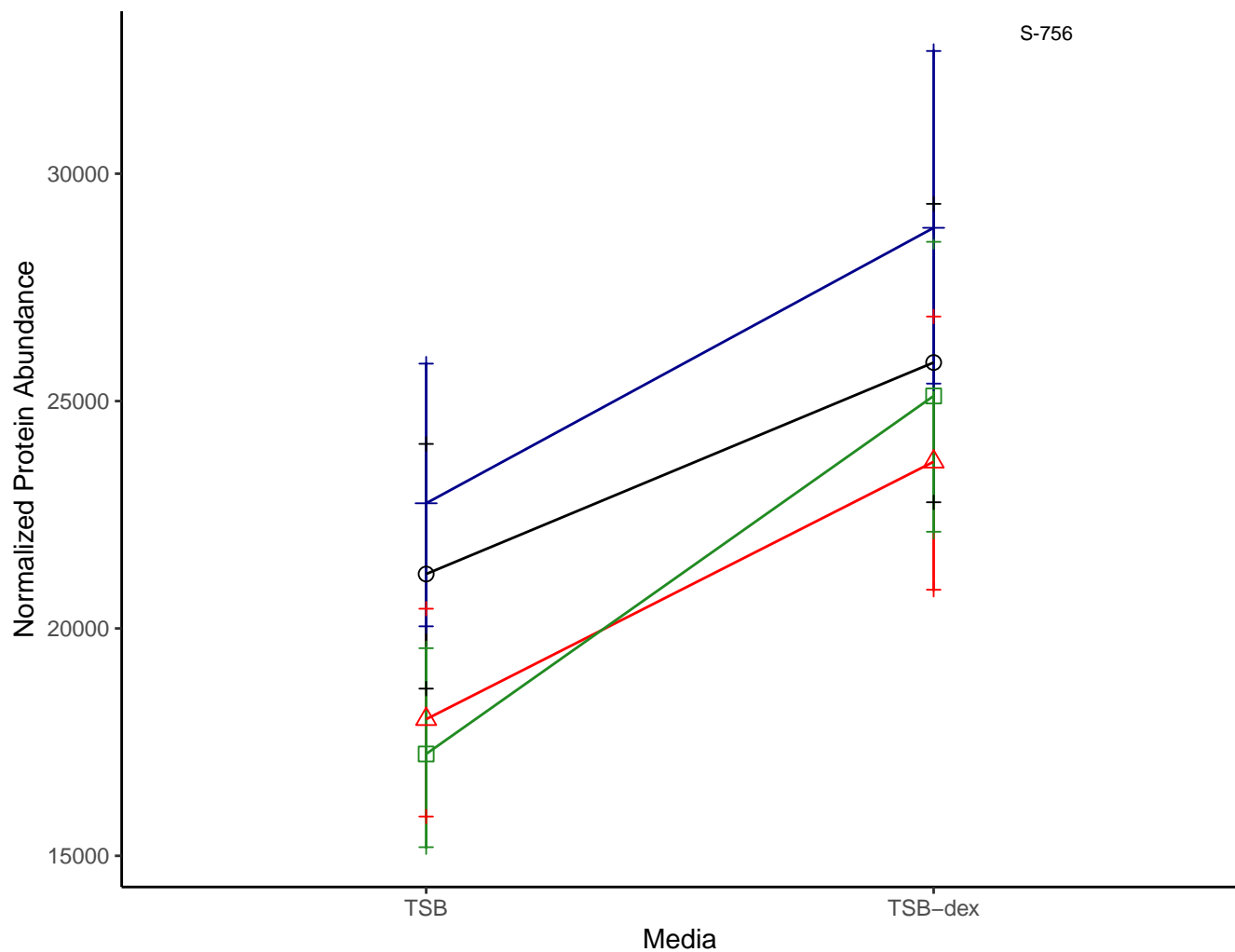
S-755



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PFLA\_STAAM

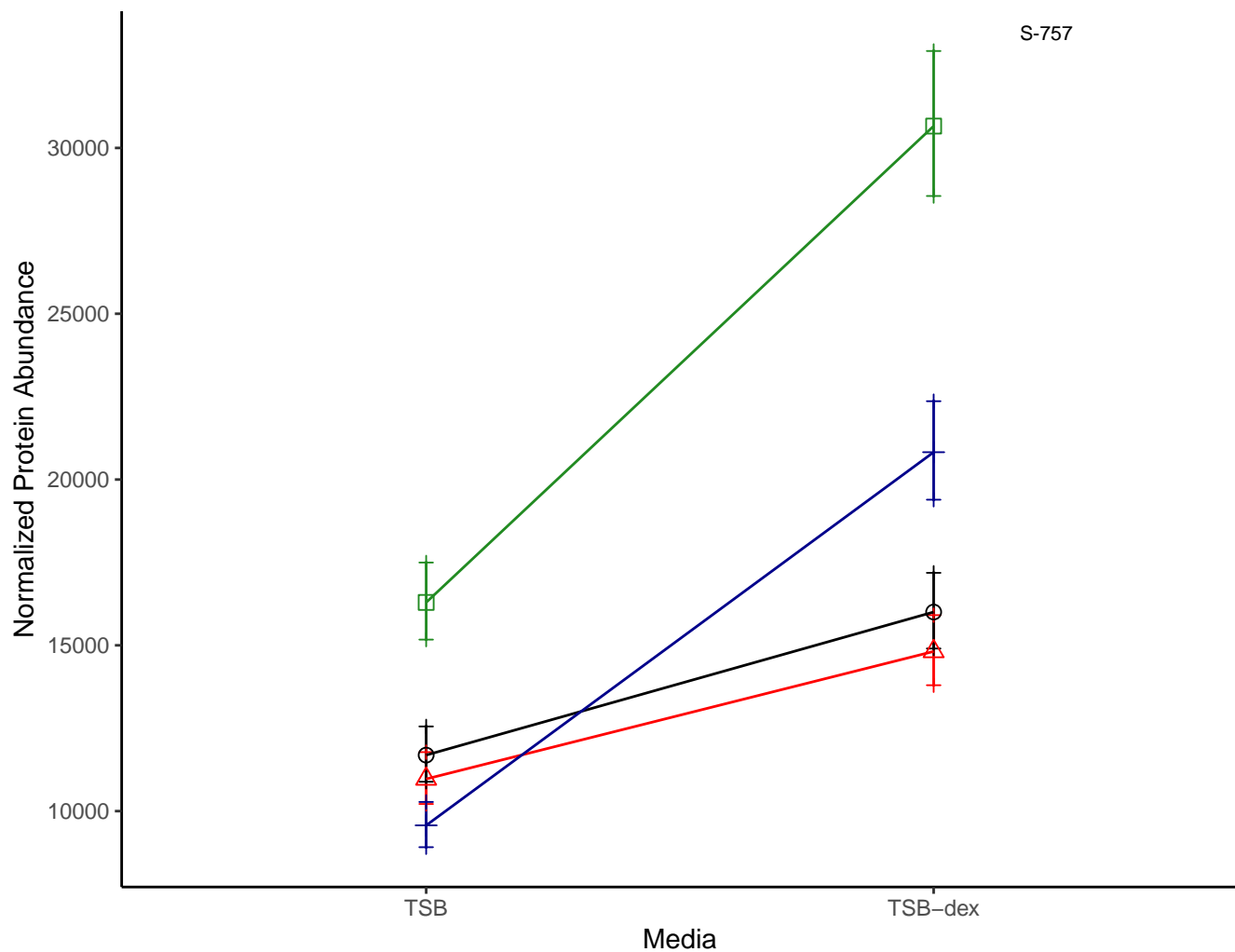
S-756



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PFLB\_STAAM

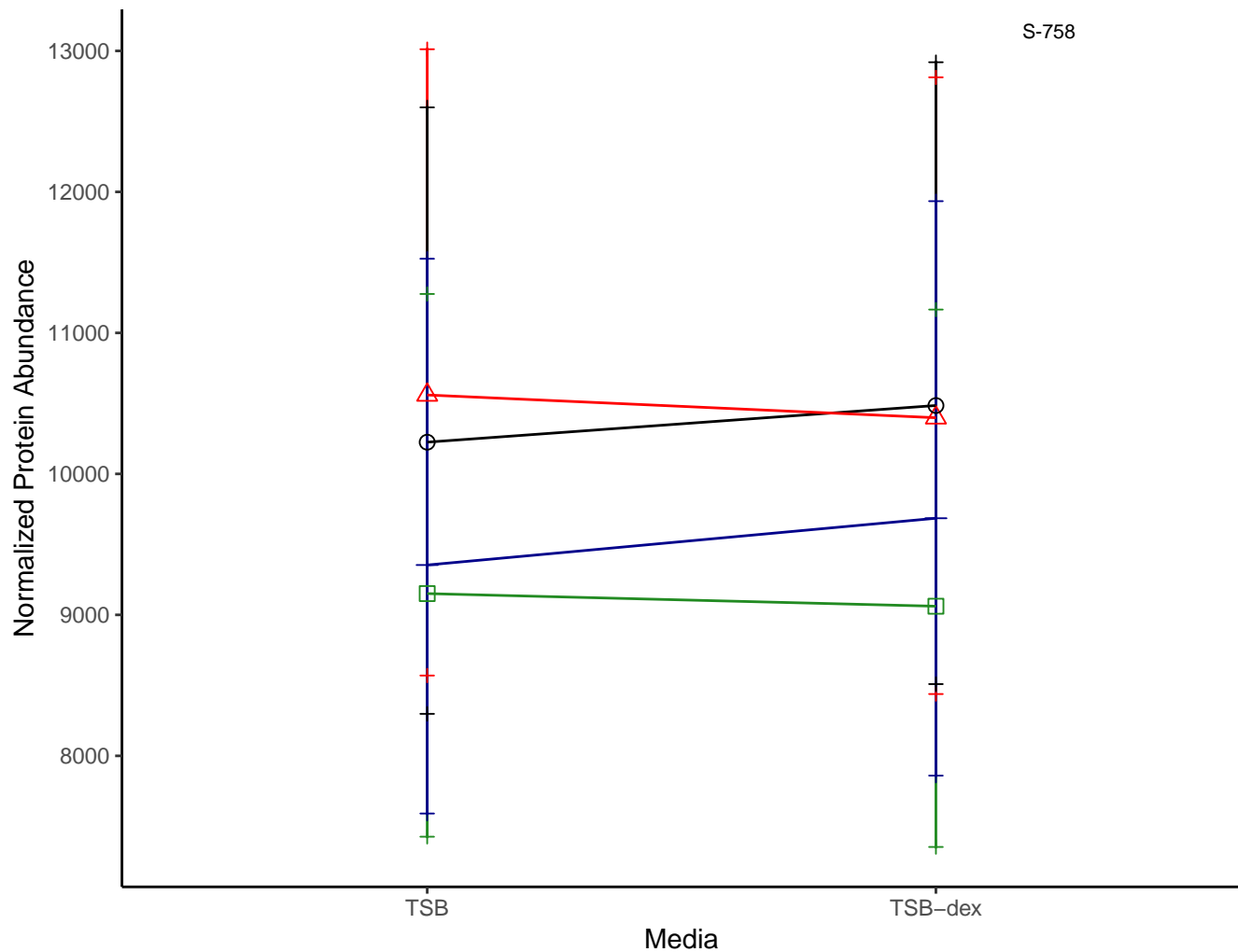
S-757



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PGCA\_STAAM

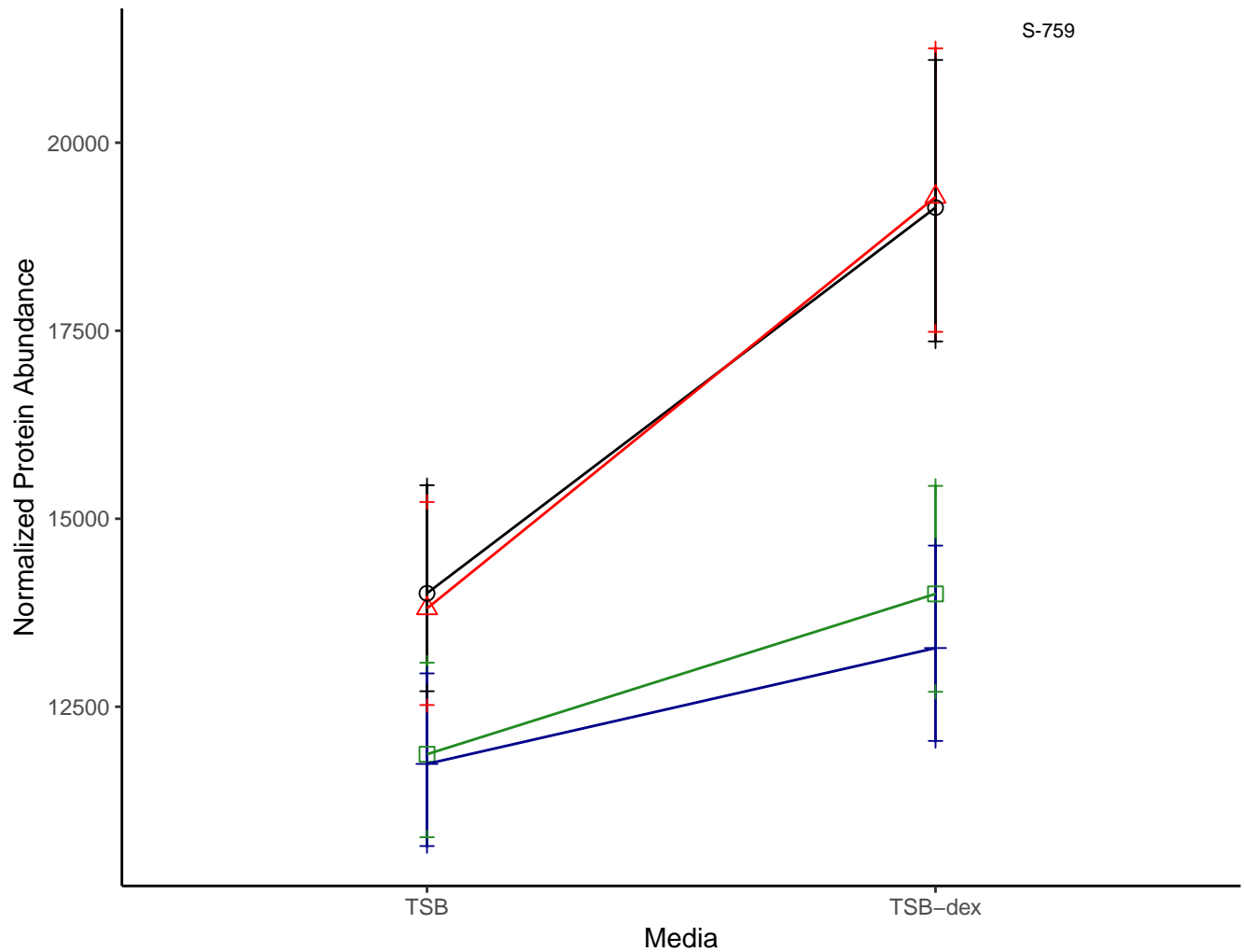
S-758



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PGK\_STAAM

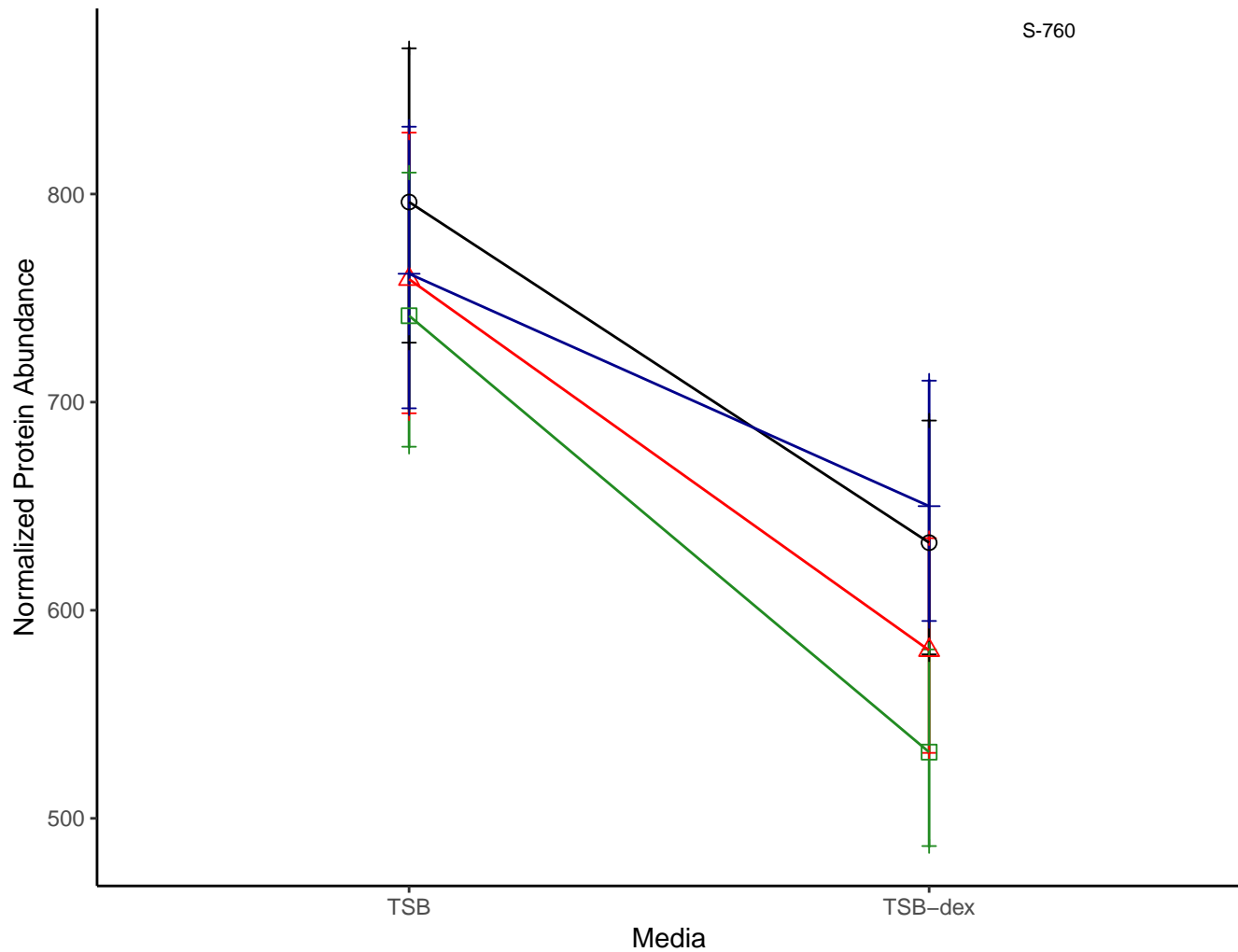
S-759



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PHNC\_STAAM

S-760

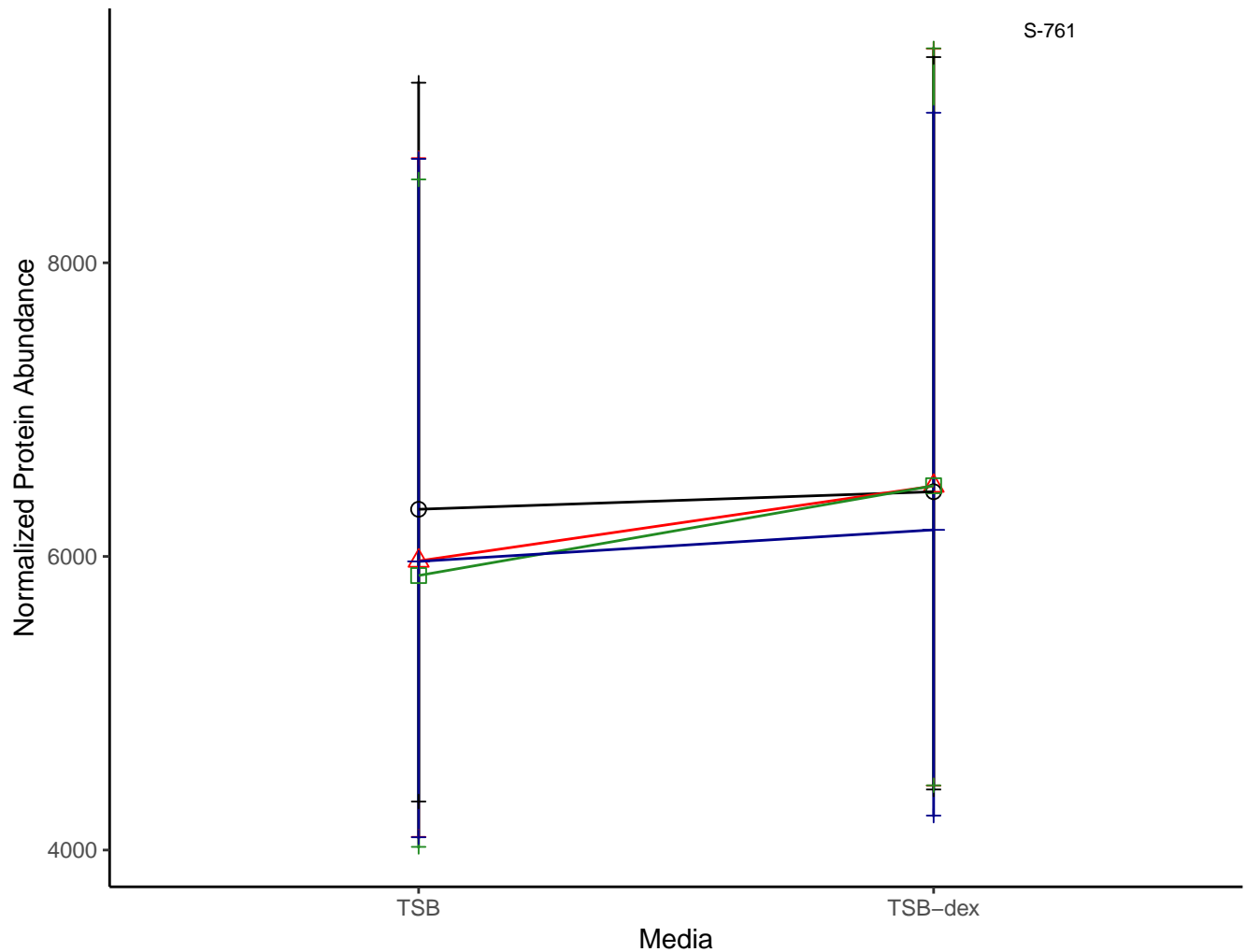


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA



# PLSX\_STAAM

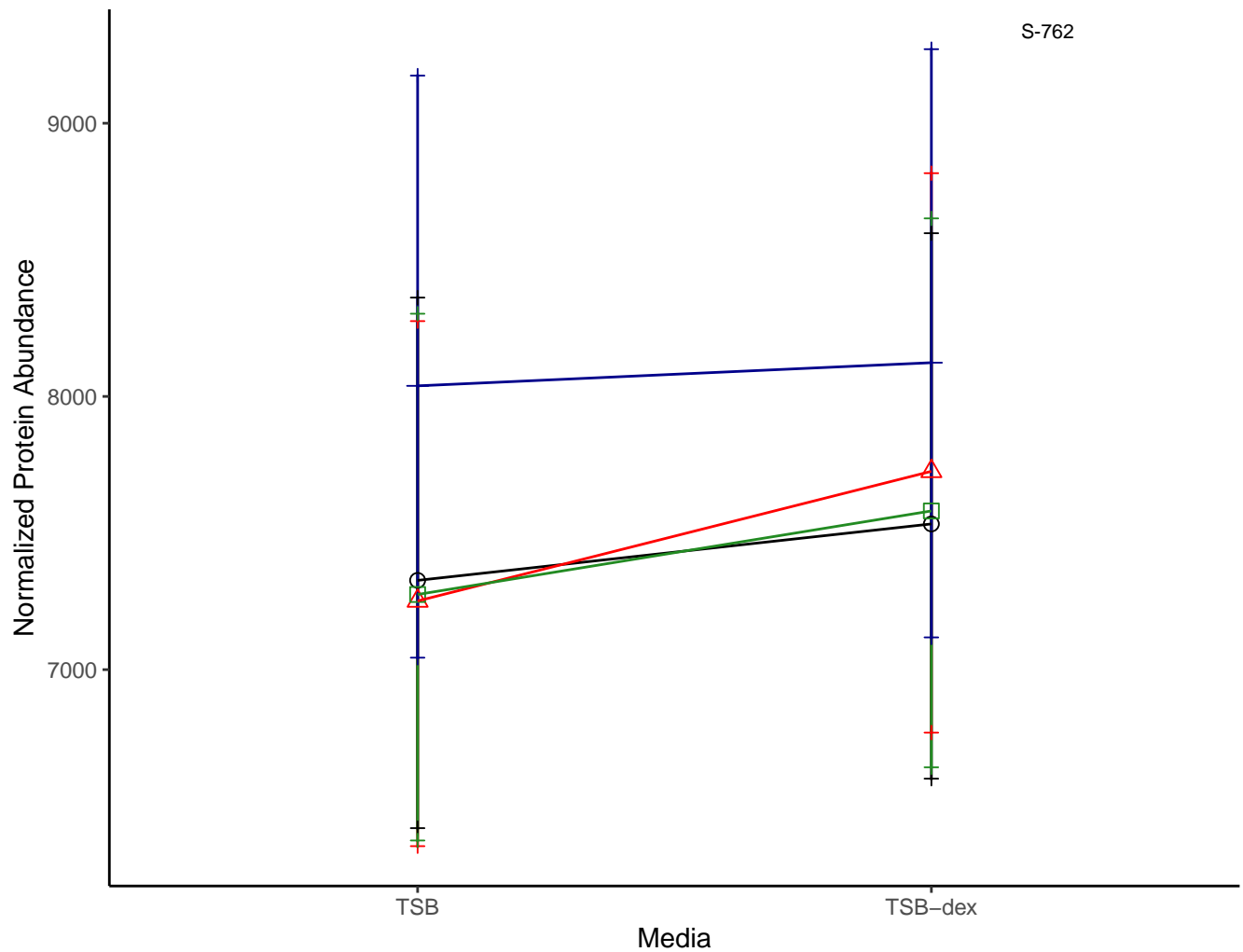
S-761



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PNP\_STAAM

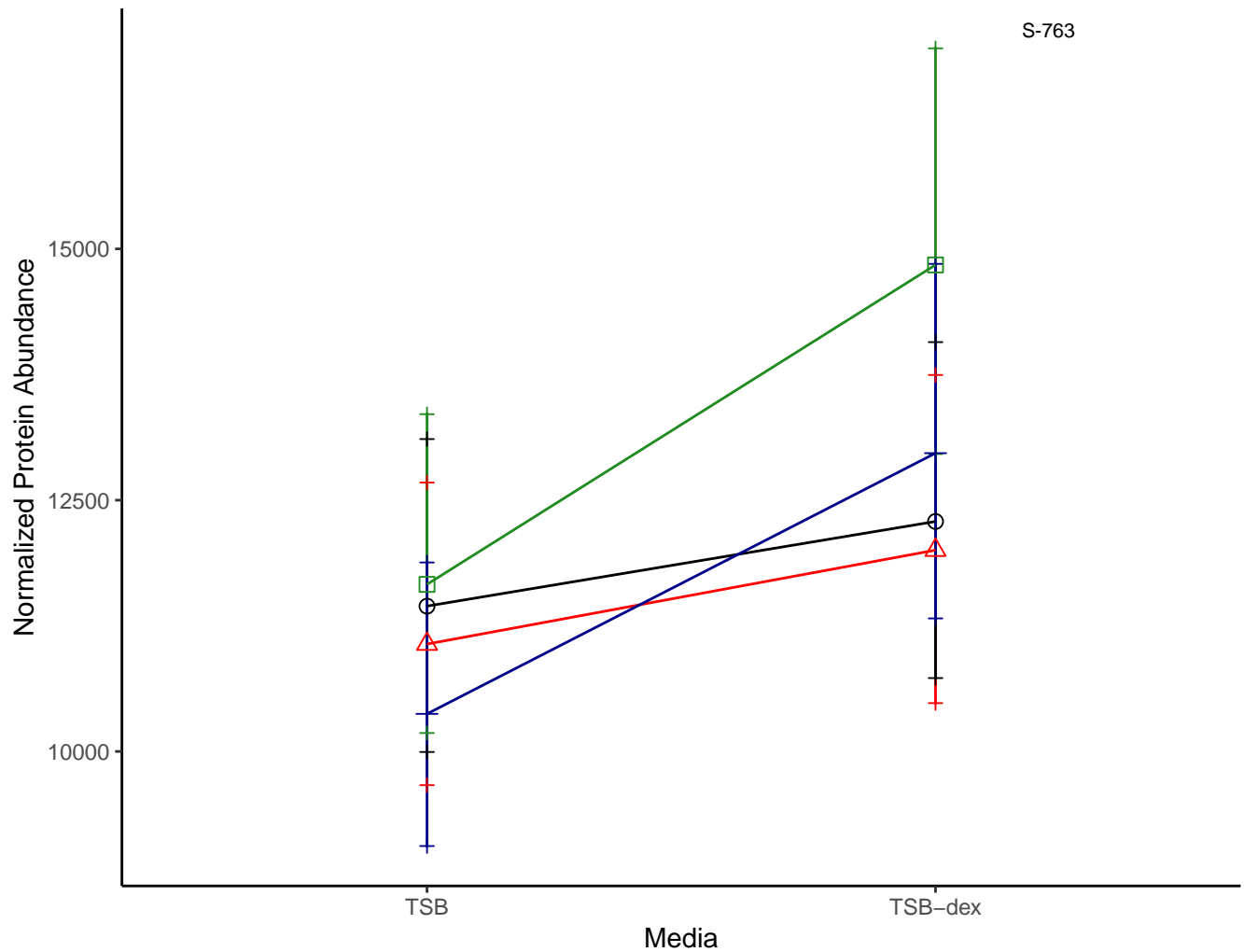
S-762



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PPAC\_STAAM

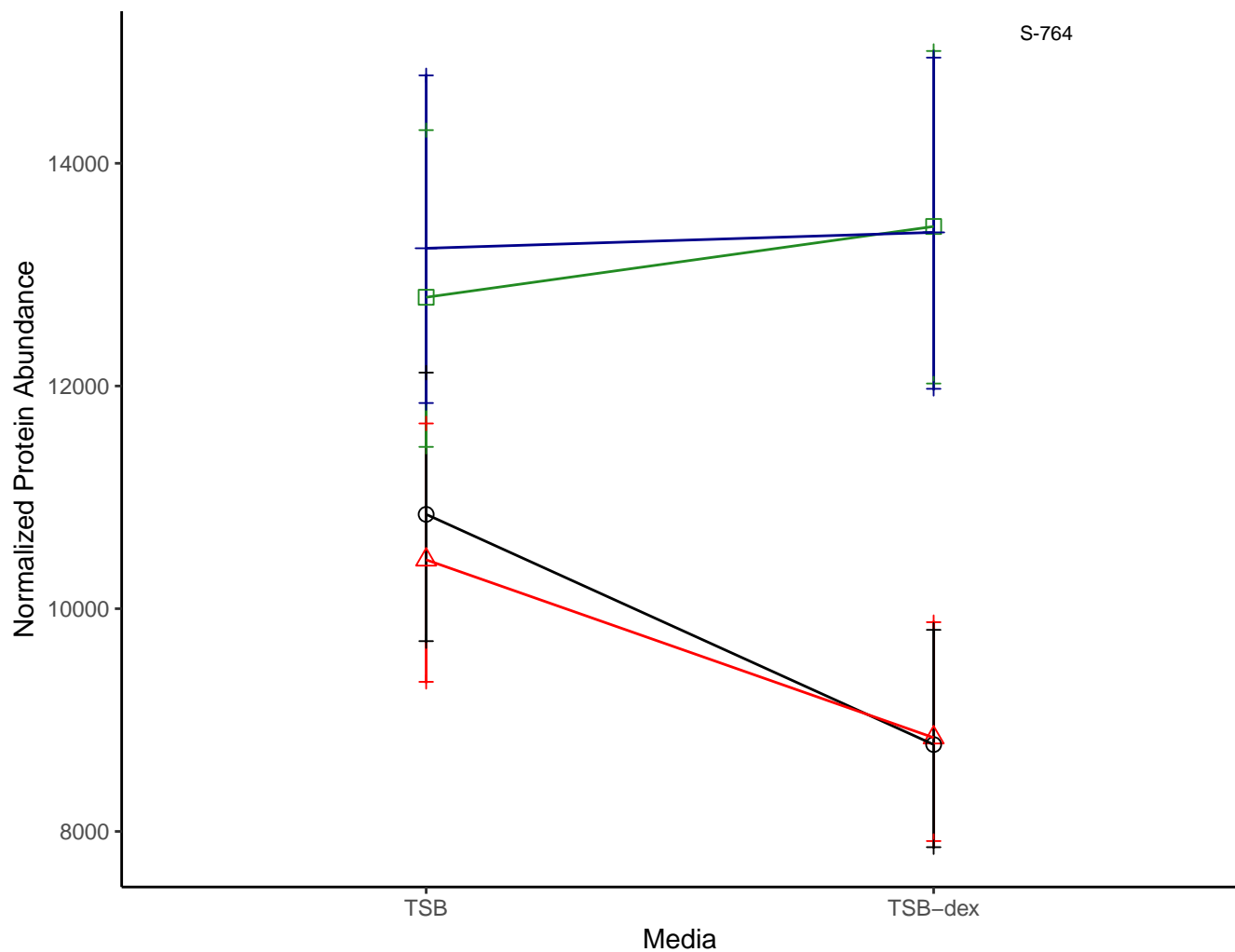
S-763



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PPAT\_STAAM

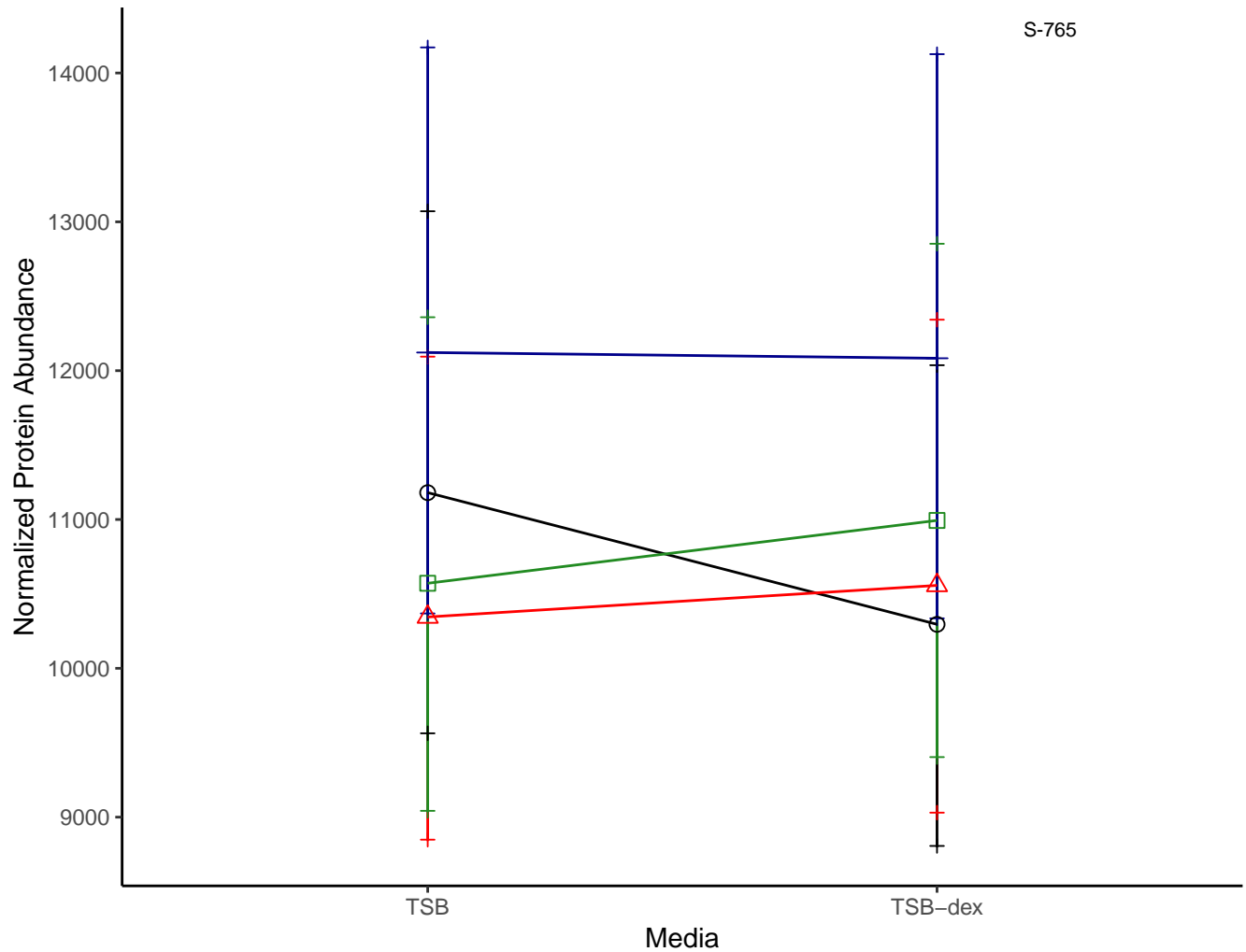
S-764



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PPI1\_STAAM

S-765



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PRSA\_STAAM

S-766

Normalized Protein Abundance

14000  
12000  
10000  
8000

TSB

Media

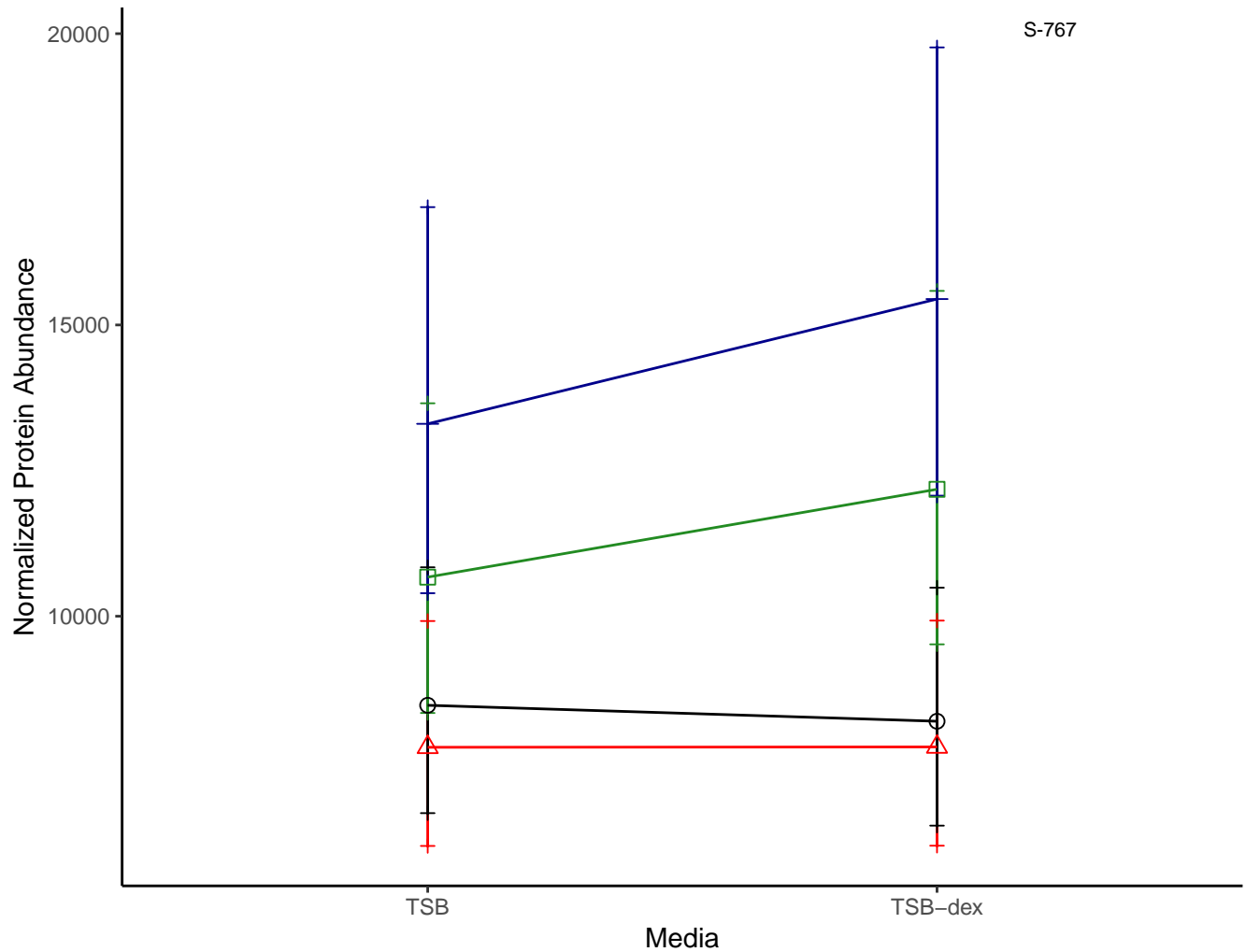
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PSTB\_STAAM

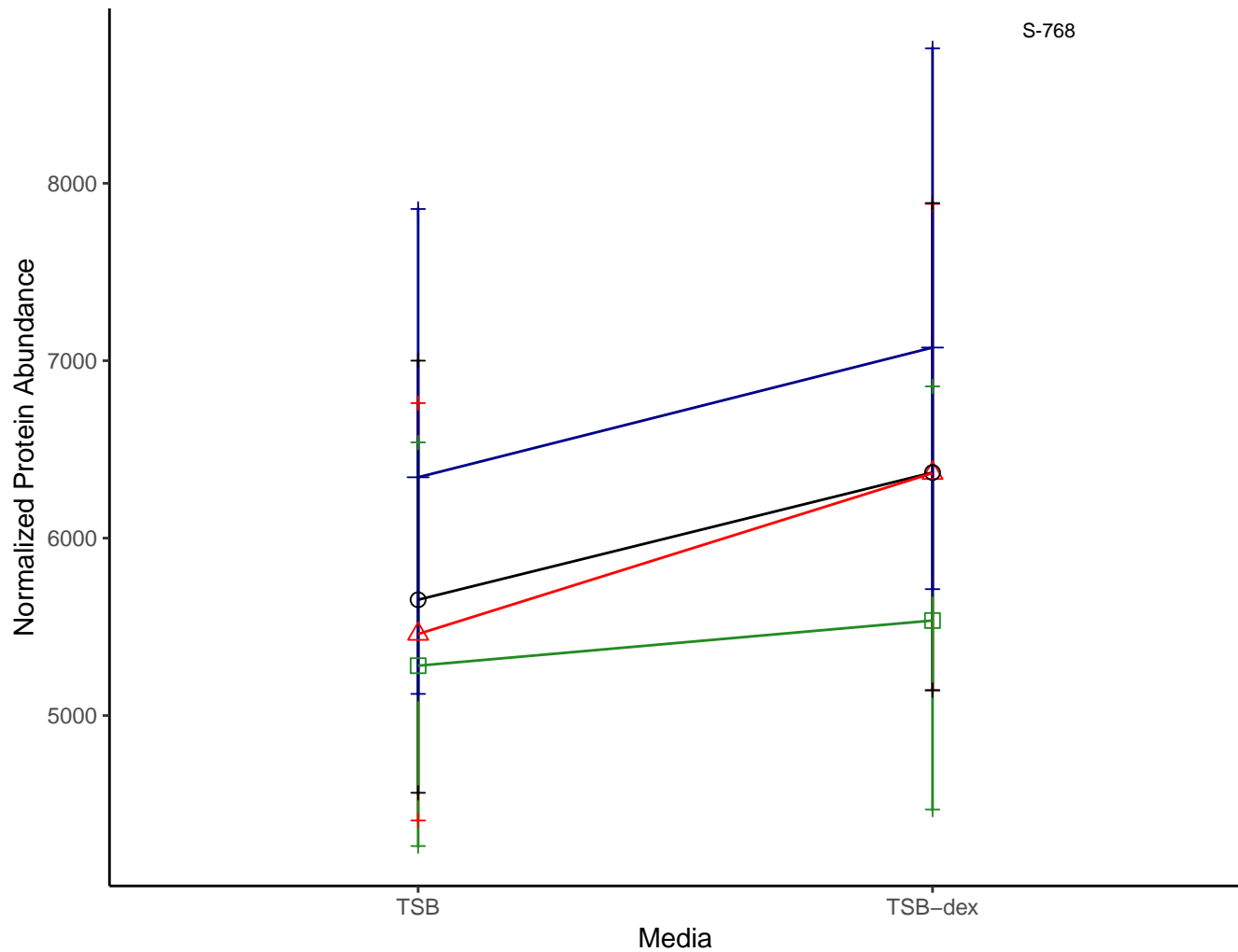
S-767



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PSTS\_STAAM

S-768

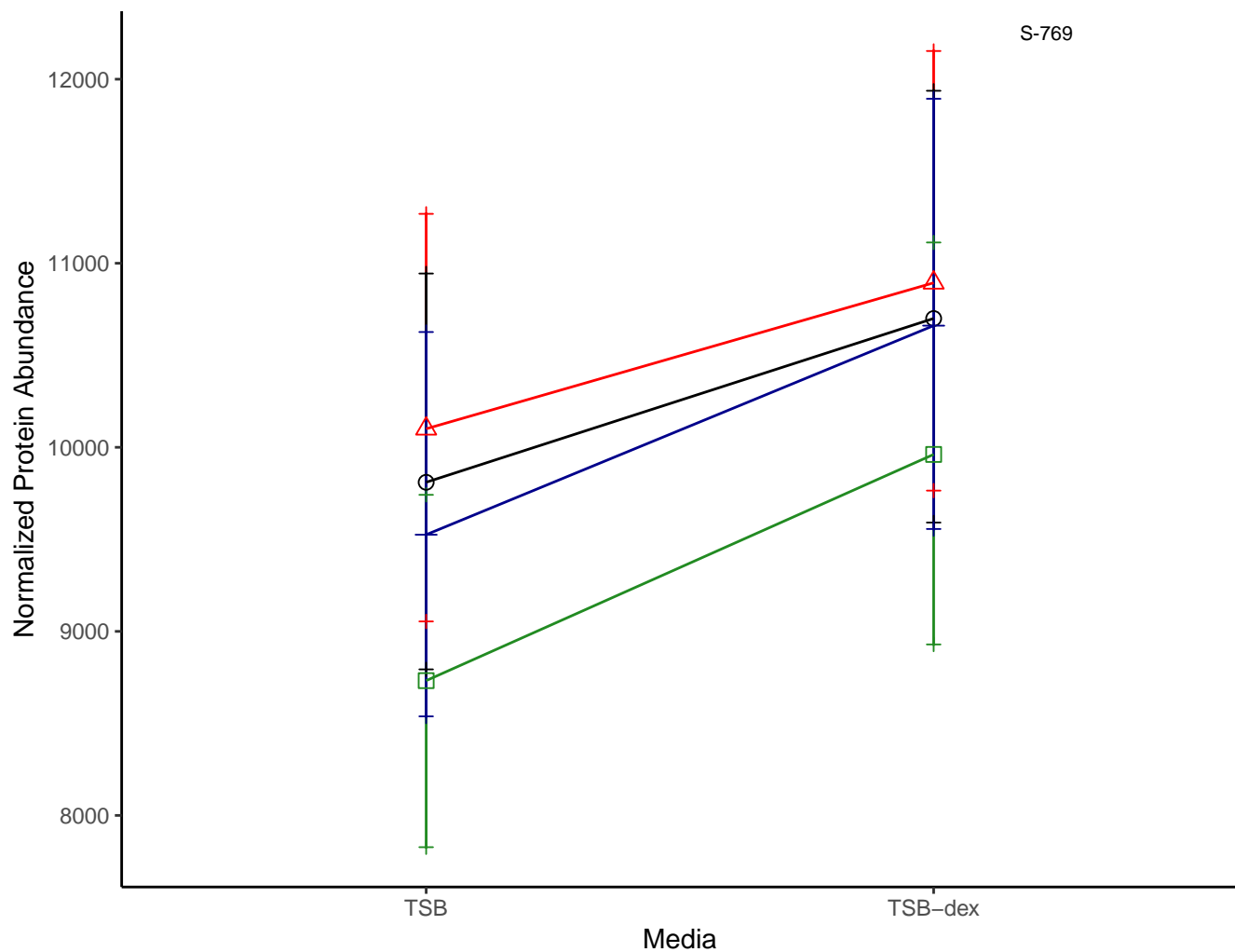


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# PT1\_STAAM

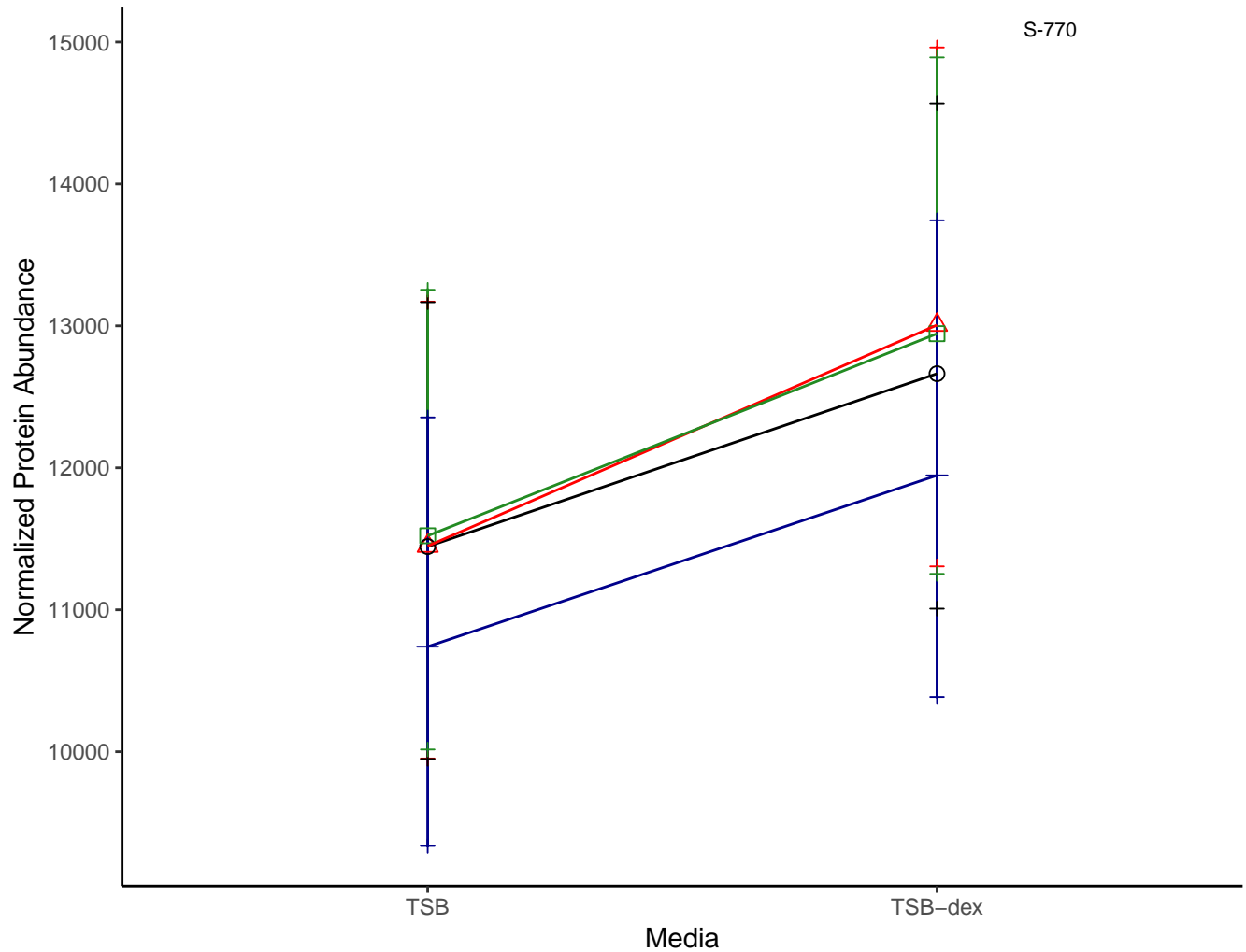
S-769



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## PTAS\_STAAM

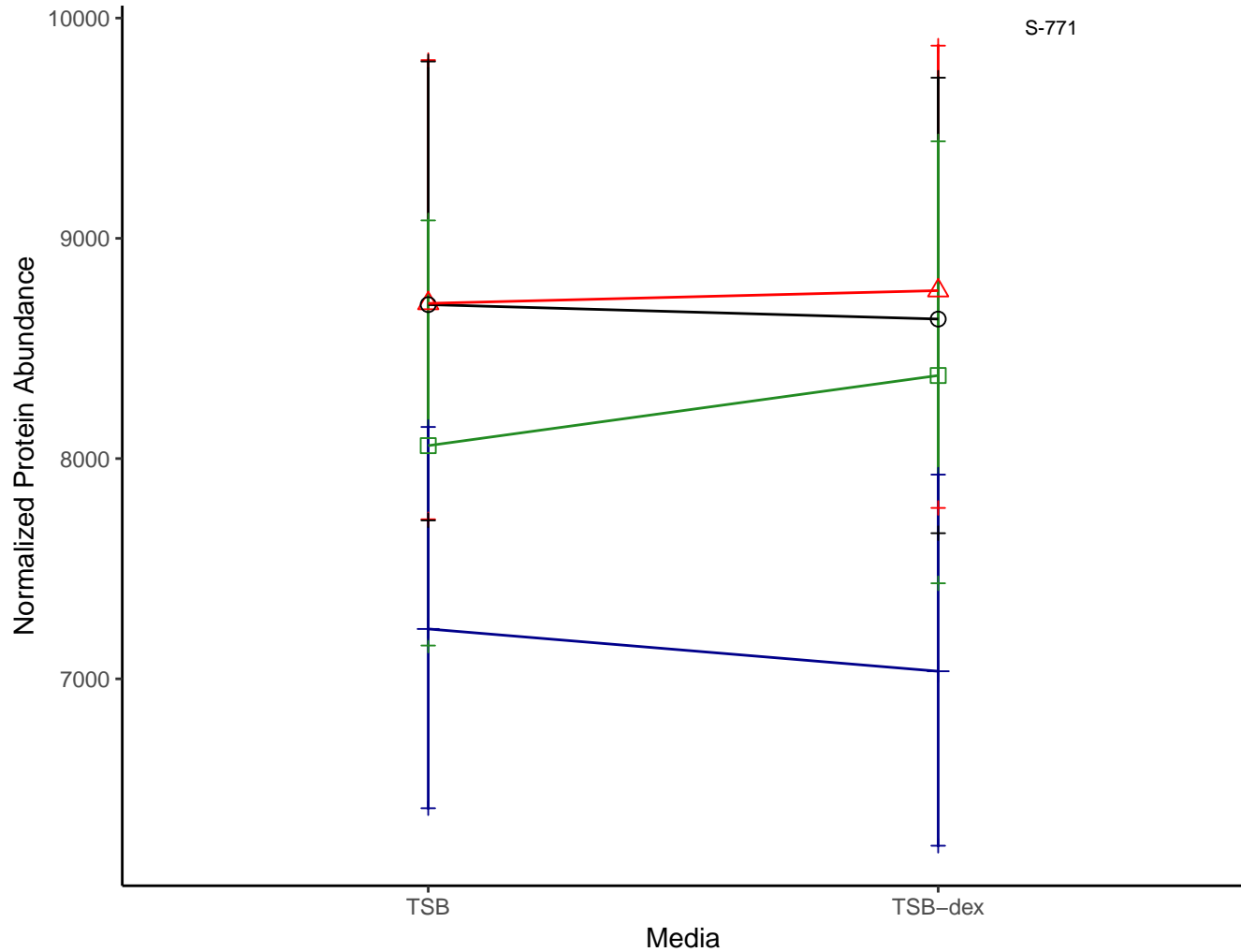
S-770



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# PTG3C\_STAAM

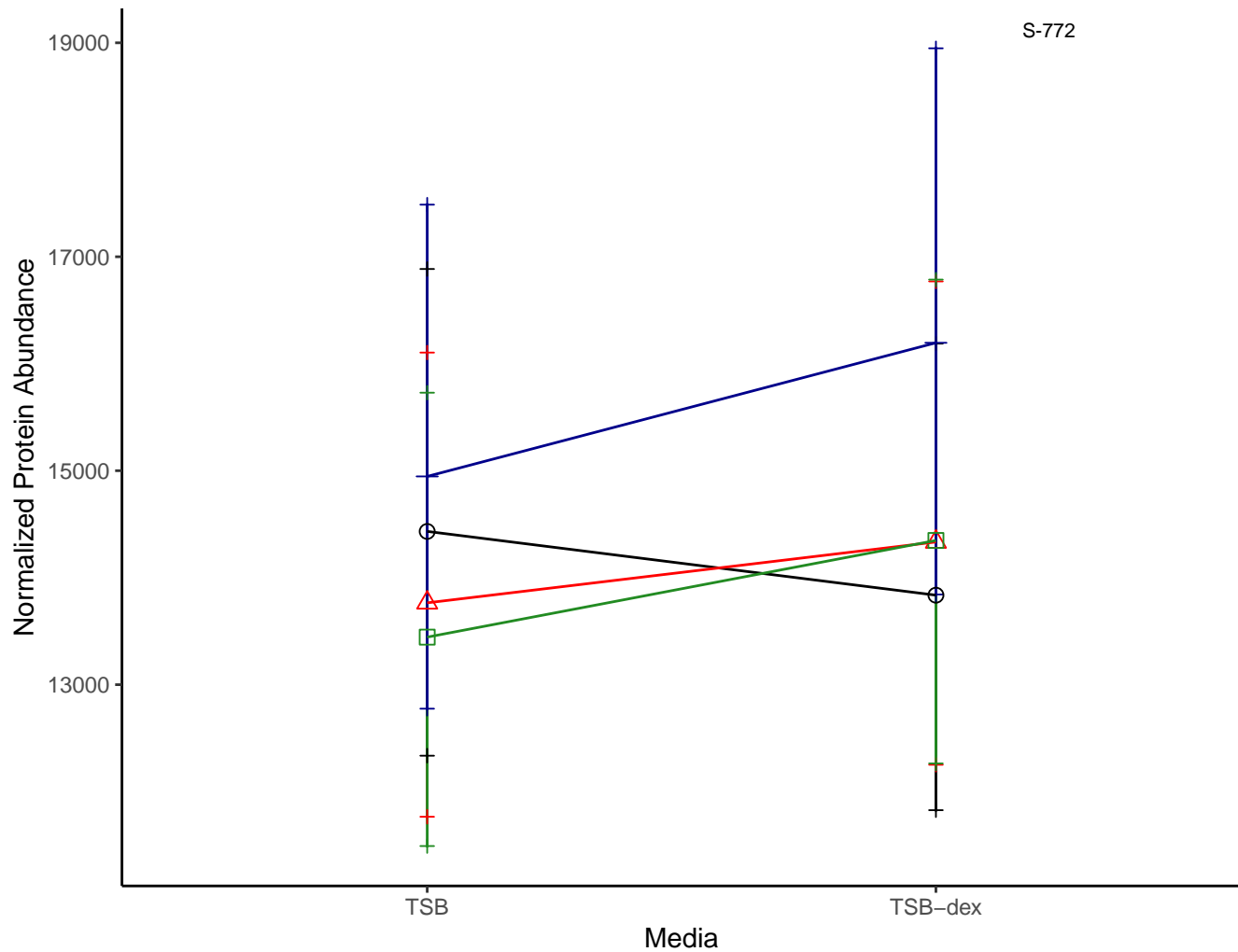
S-771



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

## PTGA\_STAAM

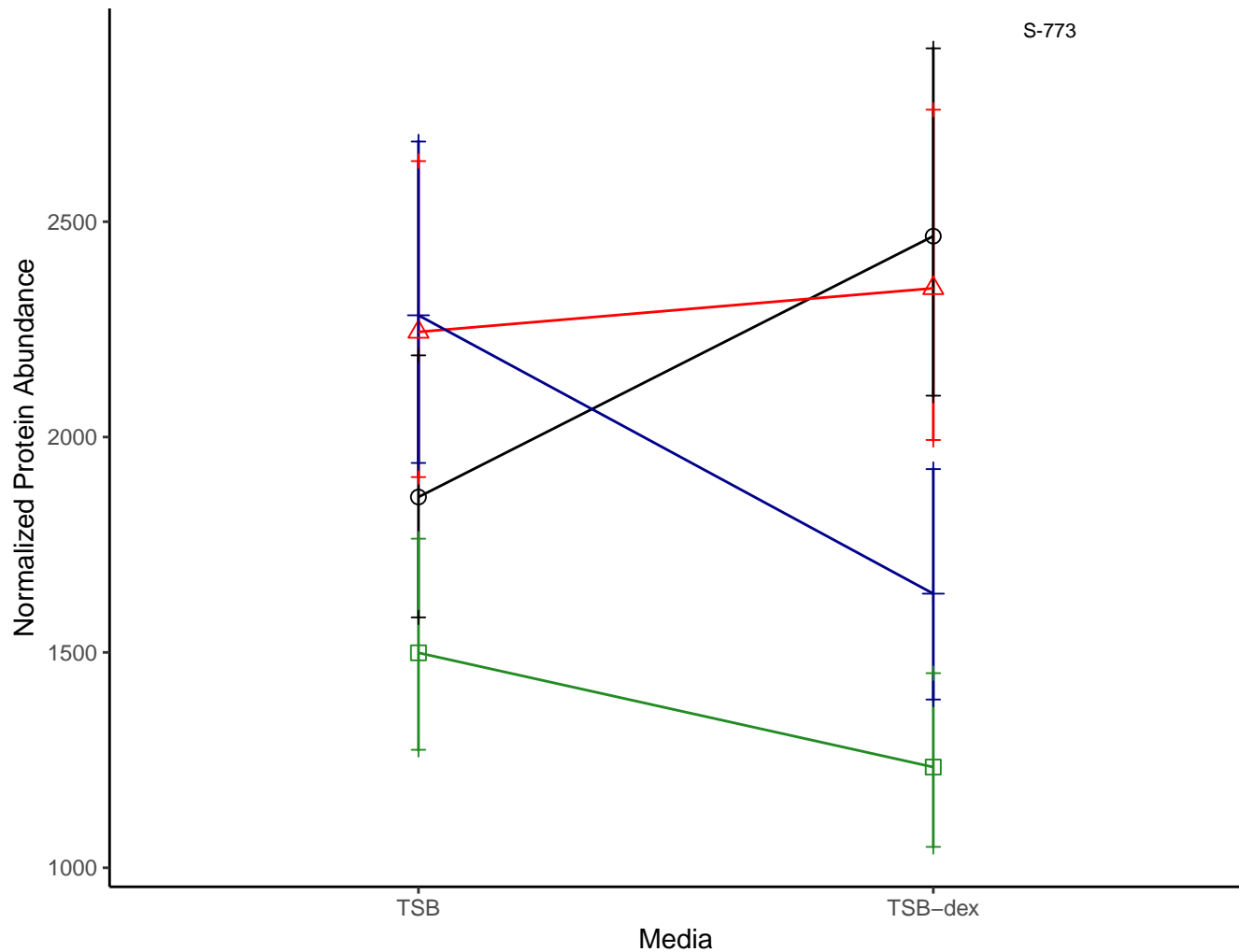
S-772



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PTH\_STAAM

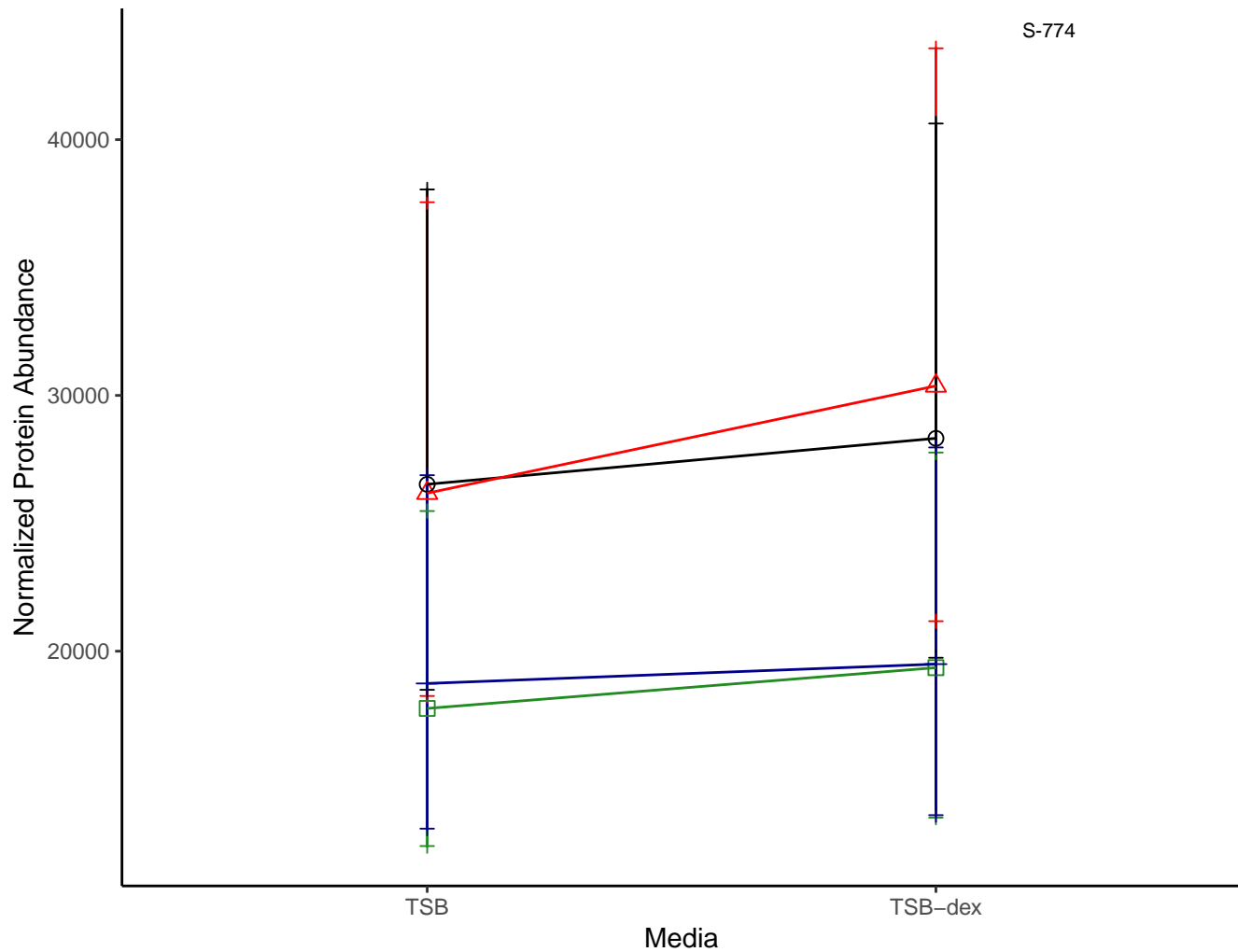
S-773



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PTHP\_STAAM

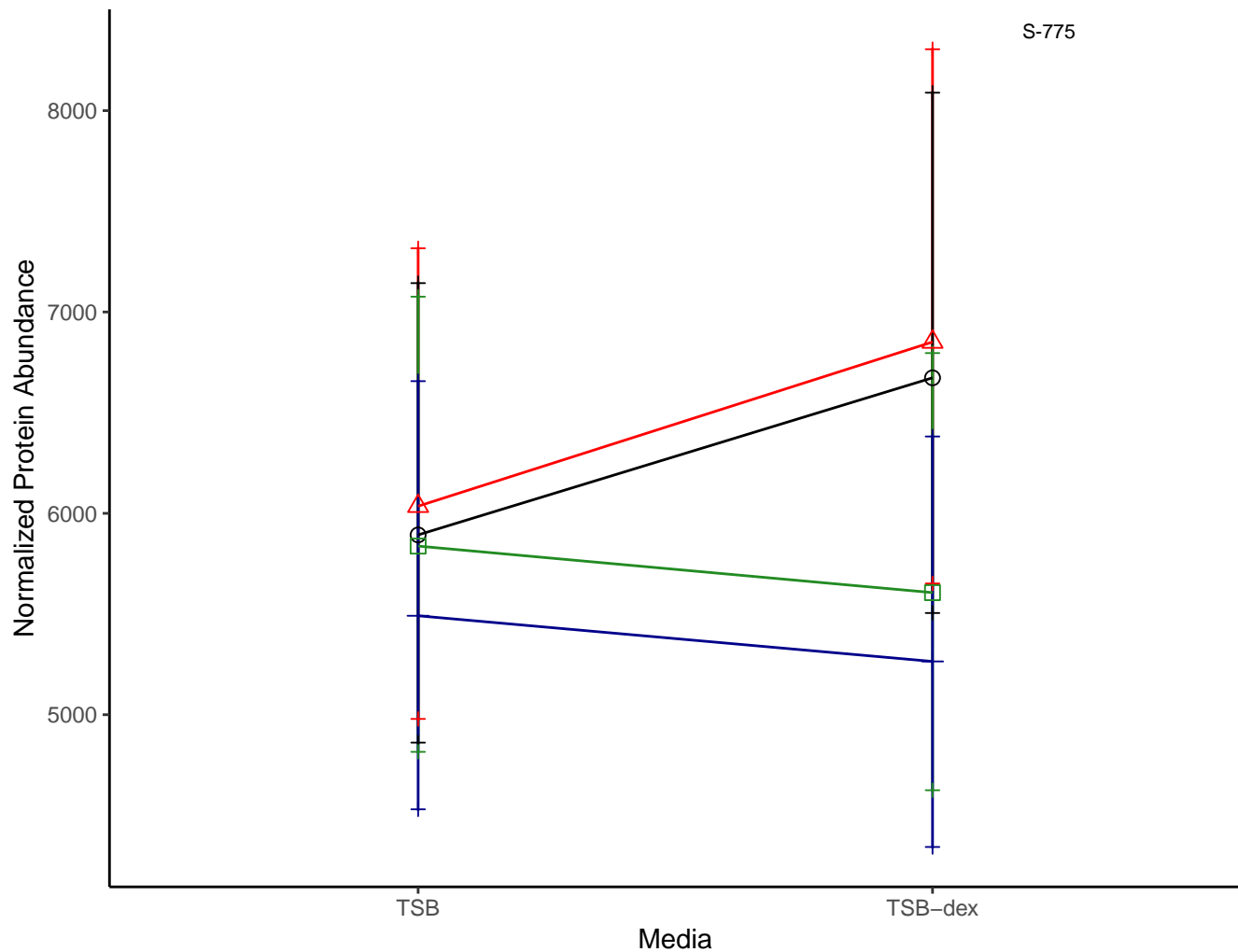
S-774



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PTMA\_STAAM

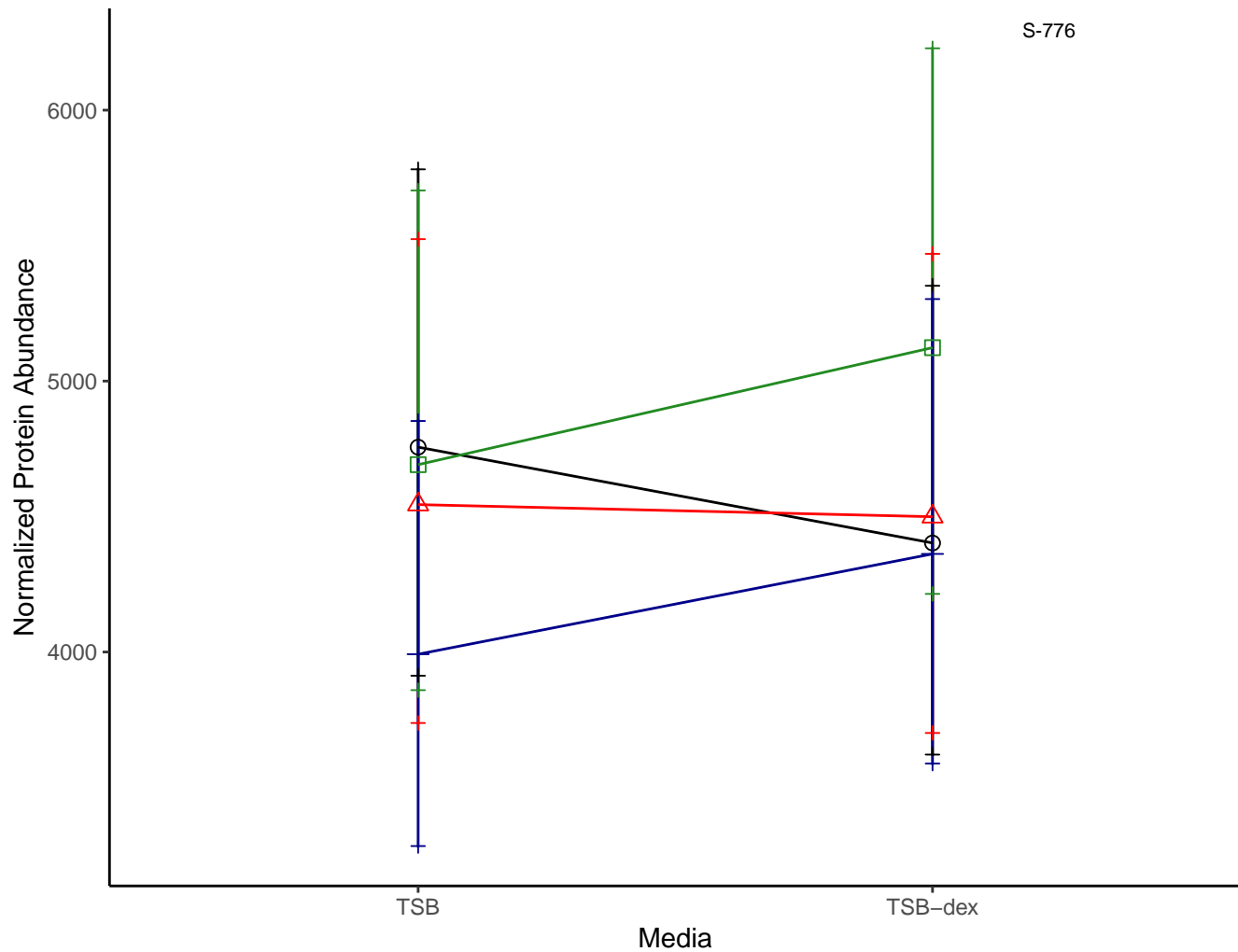
S-775



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR1\_STAAM

S-776

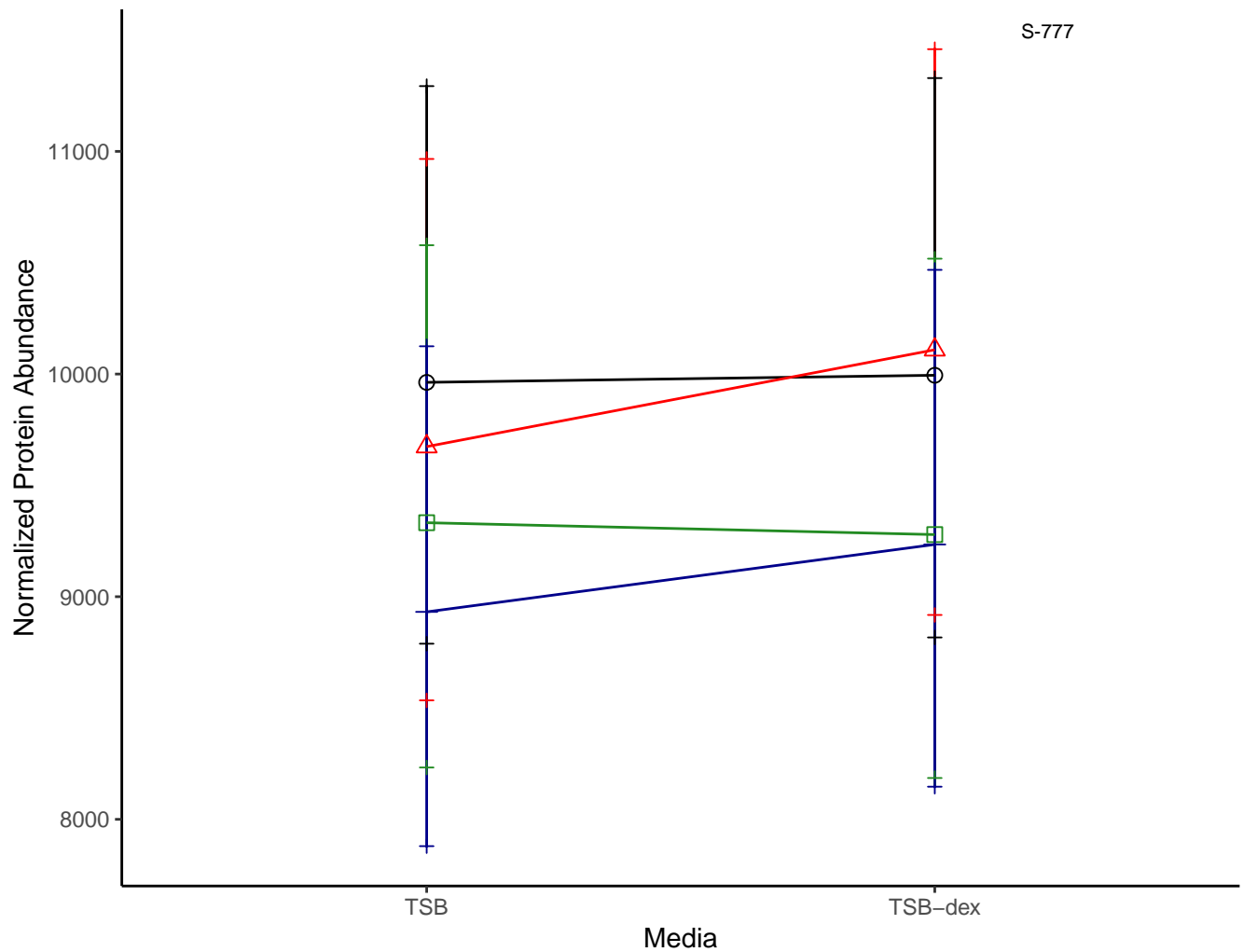


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PUR2\_STAAM

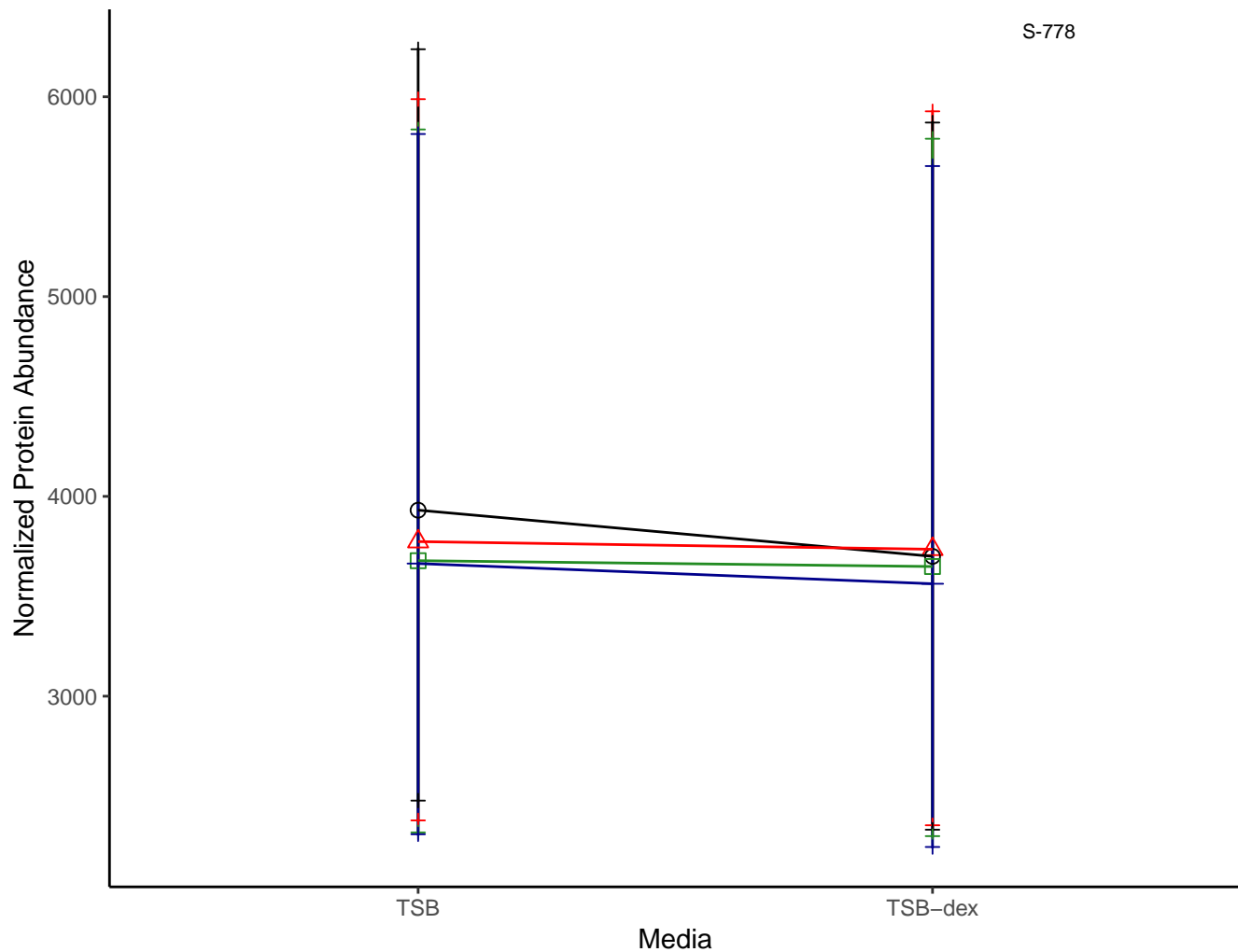
S-777



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PUR3\_STAAM

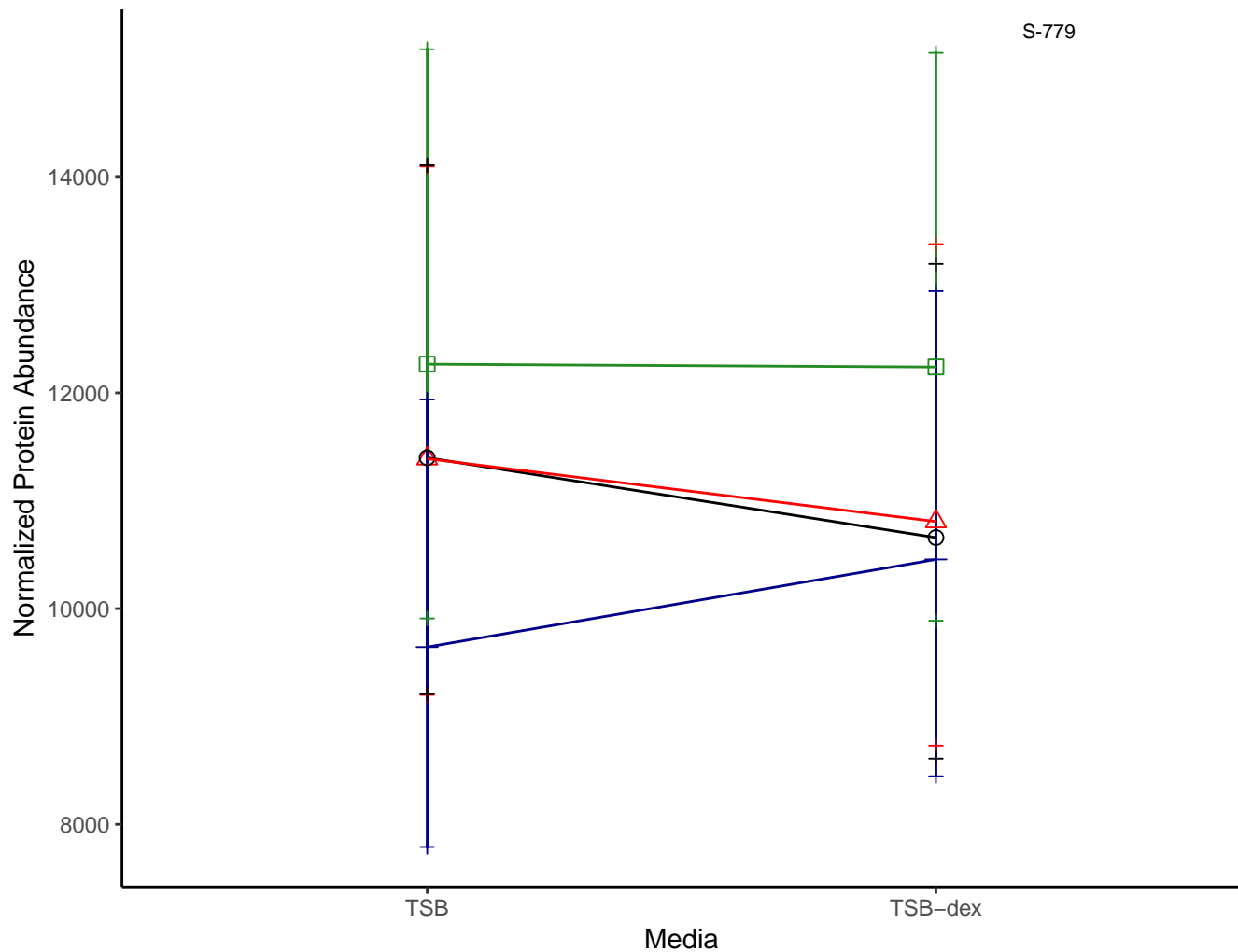
S-778



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR5\_STAAM

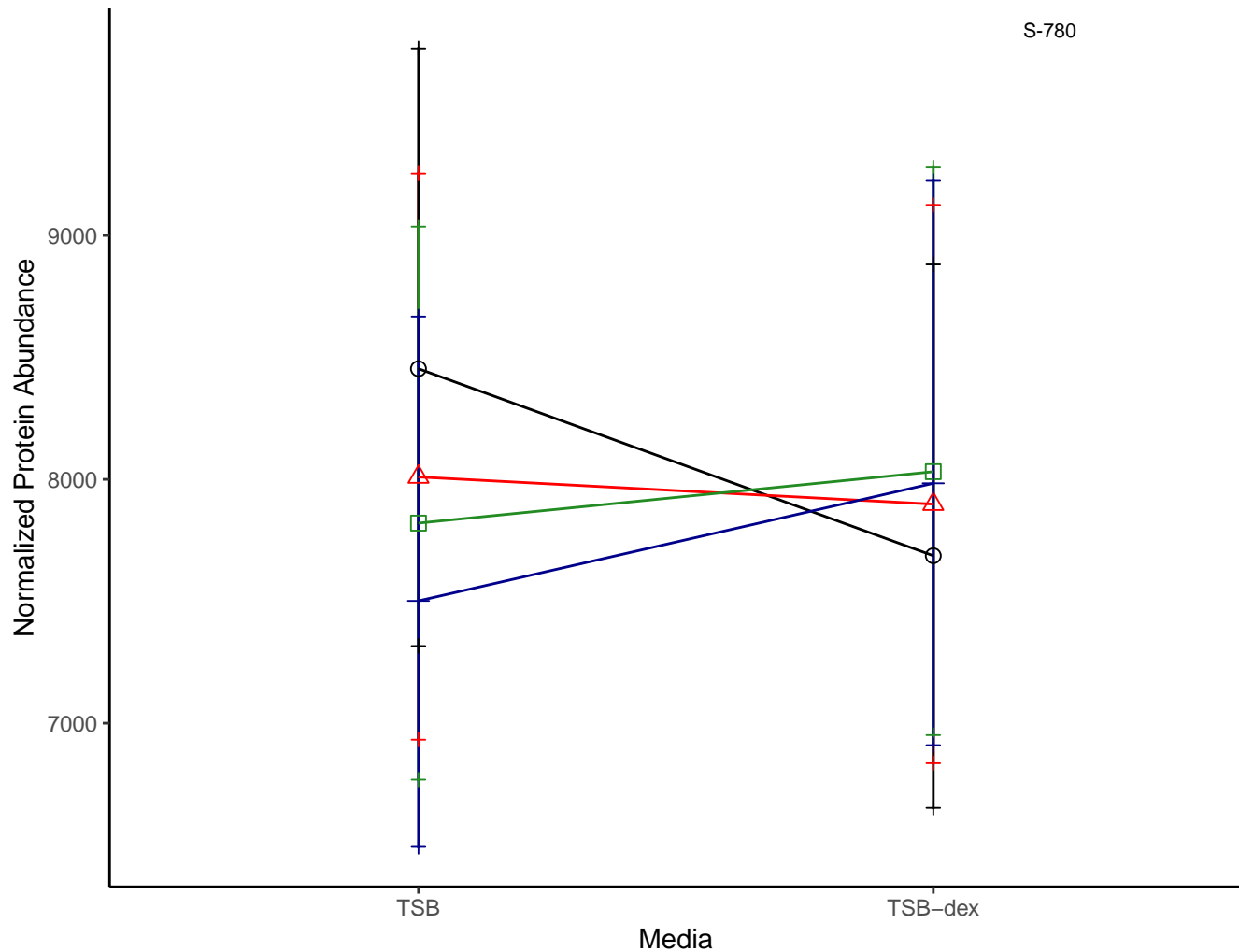
S-779



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# PUR7\_STAAM

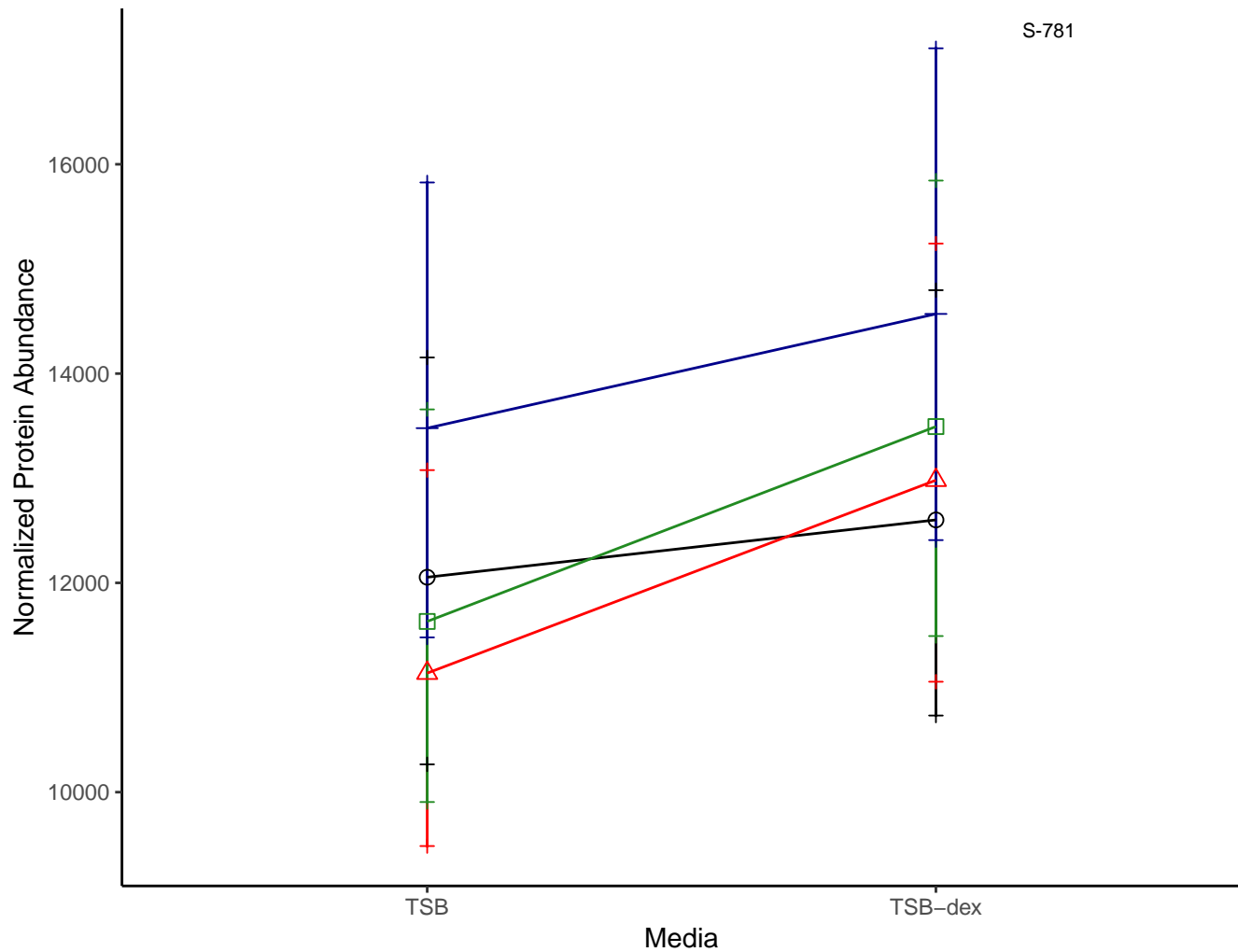
S-780



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PUR8\_STAAM

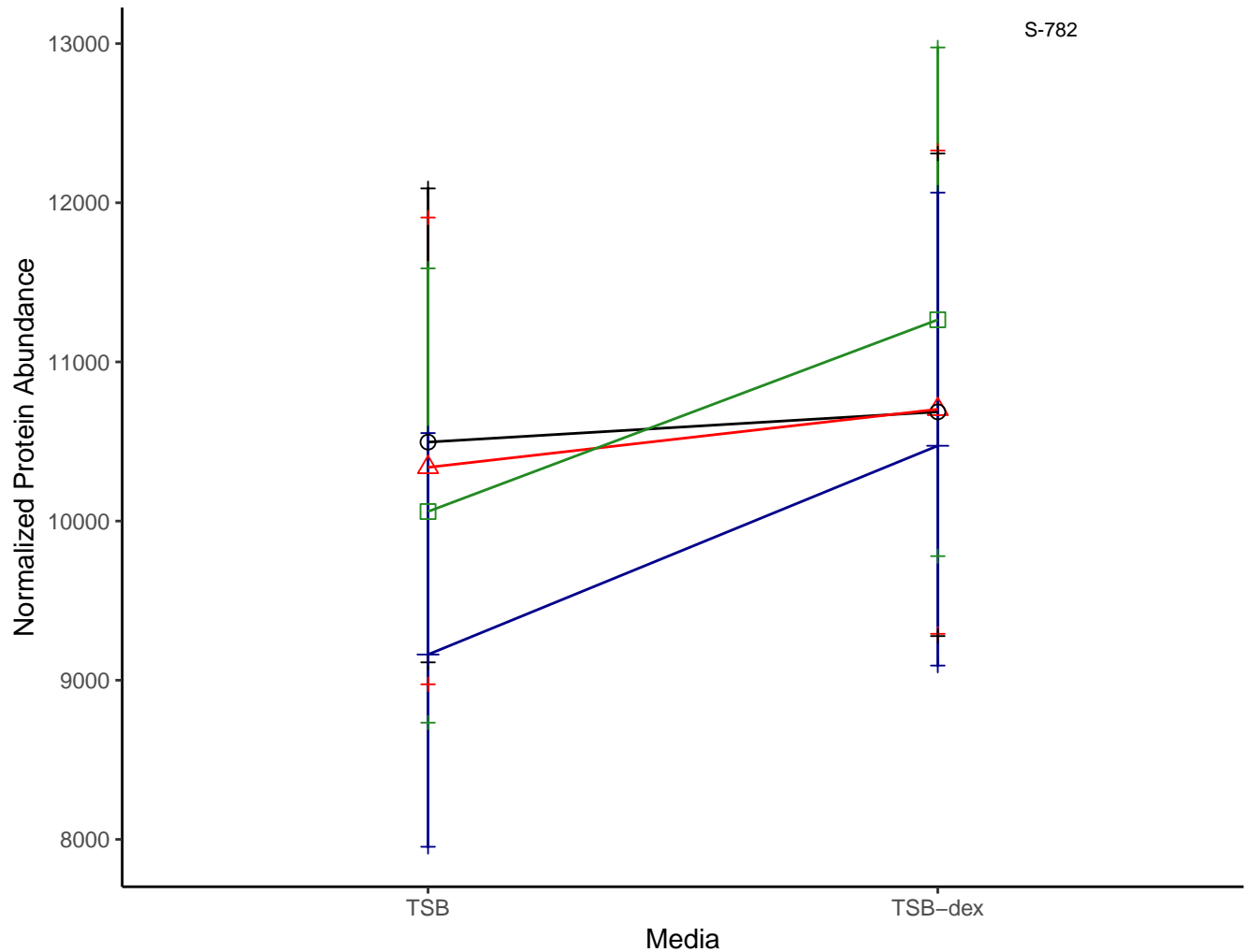
S-781



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PUR9\_STAAM

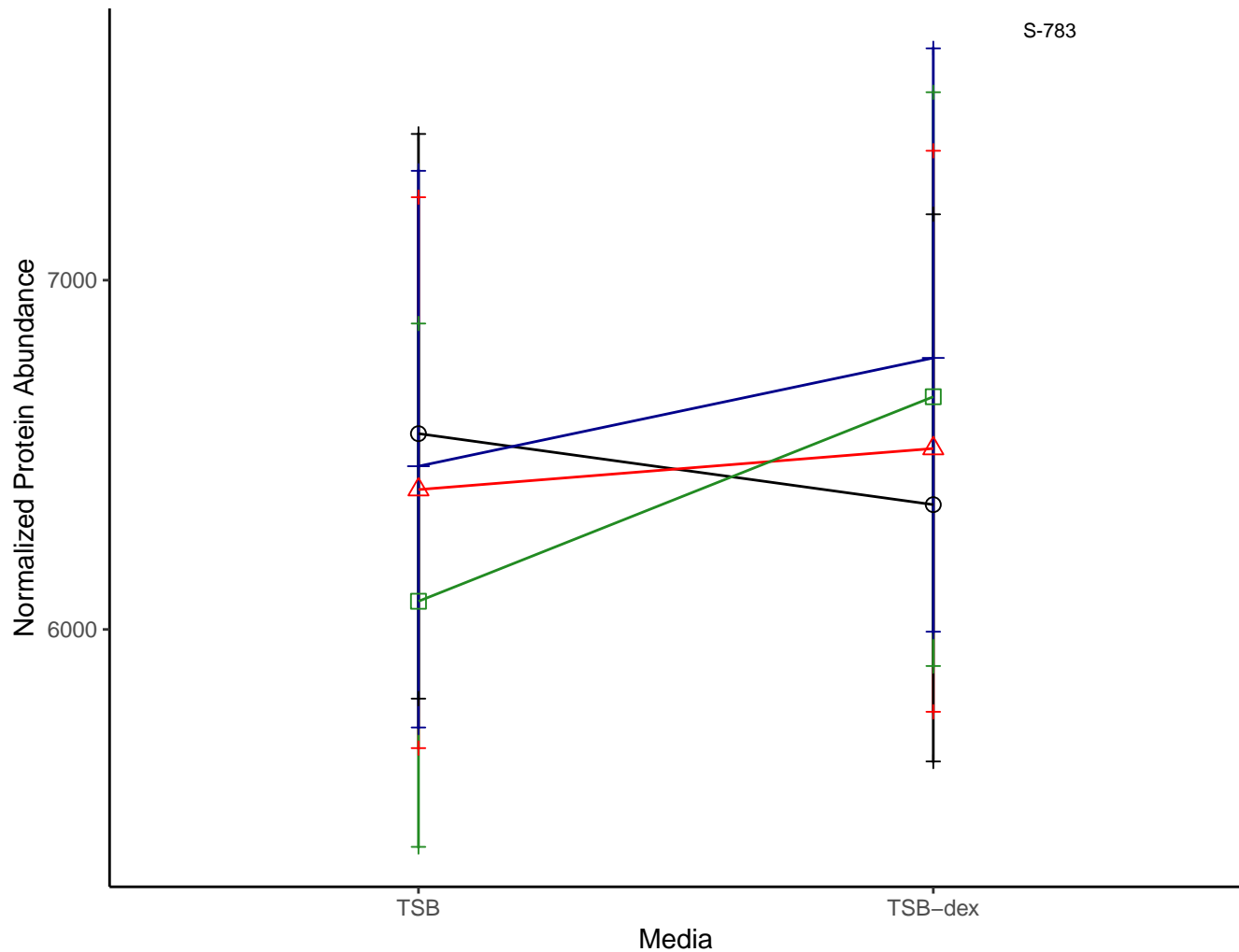
S-782



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# PURA\_STAAM

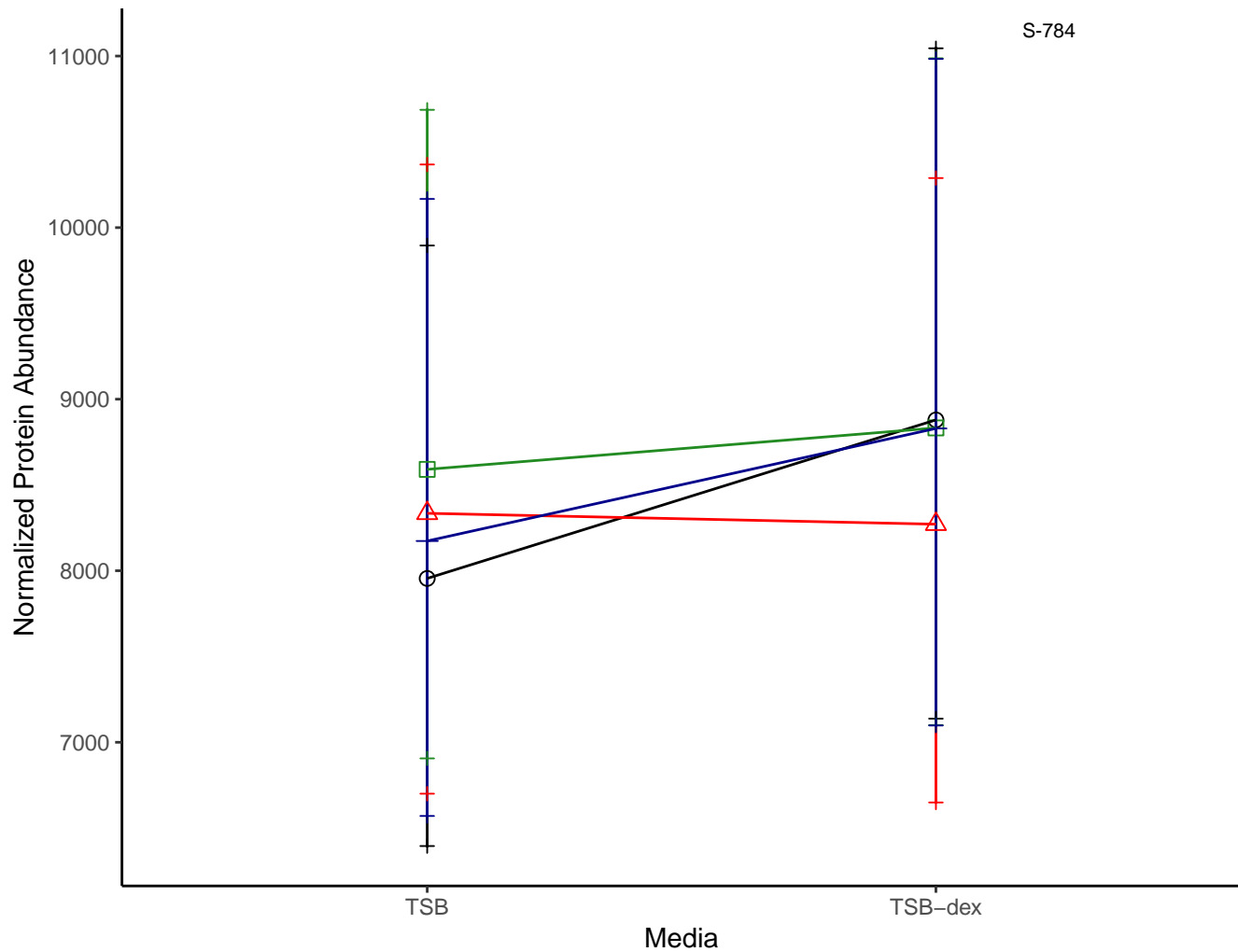
S-783



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PURK\_STAAM

S-784

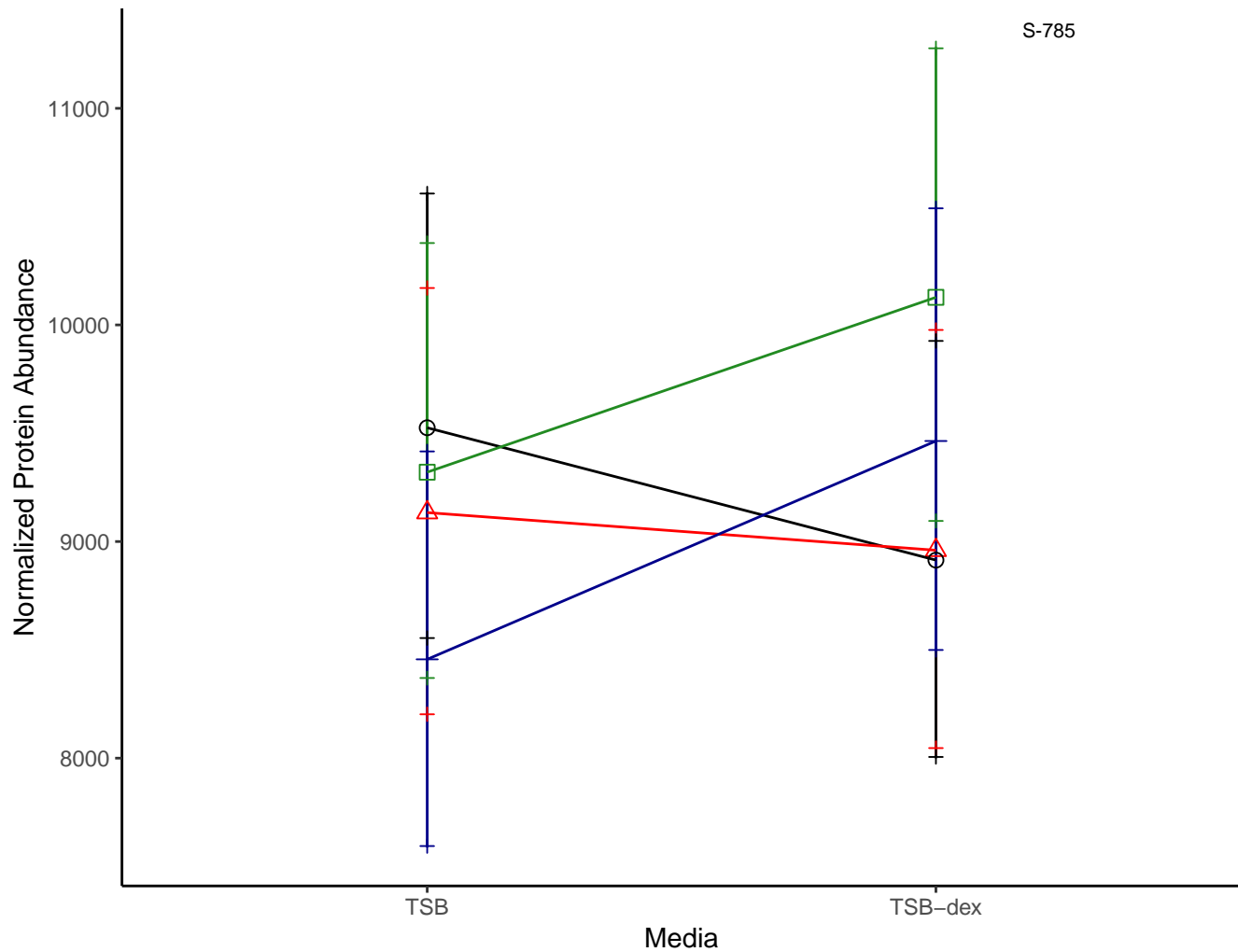


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PURL\_STAAM

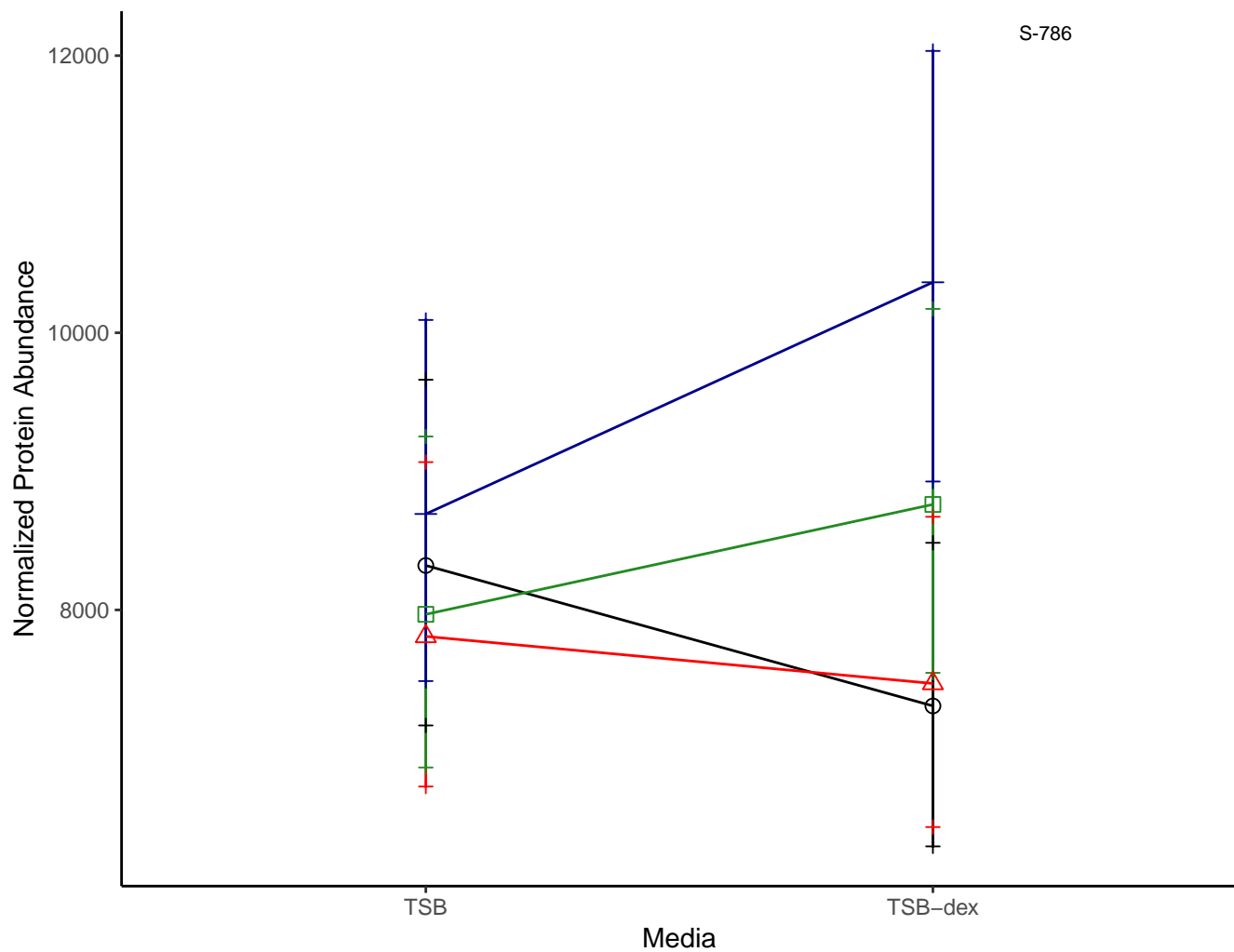
S-785



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PURQ\_STAAM

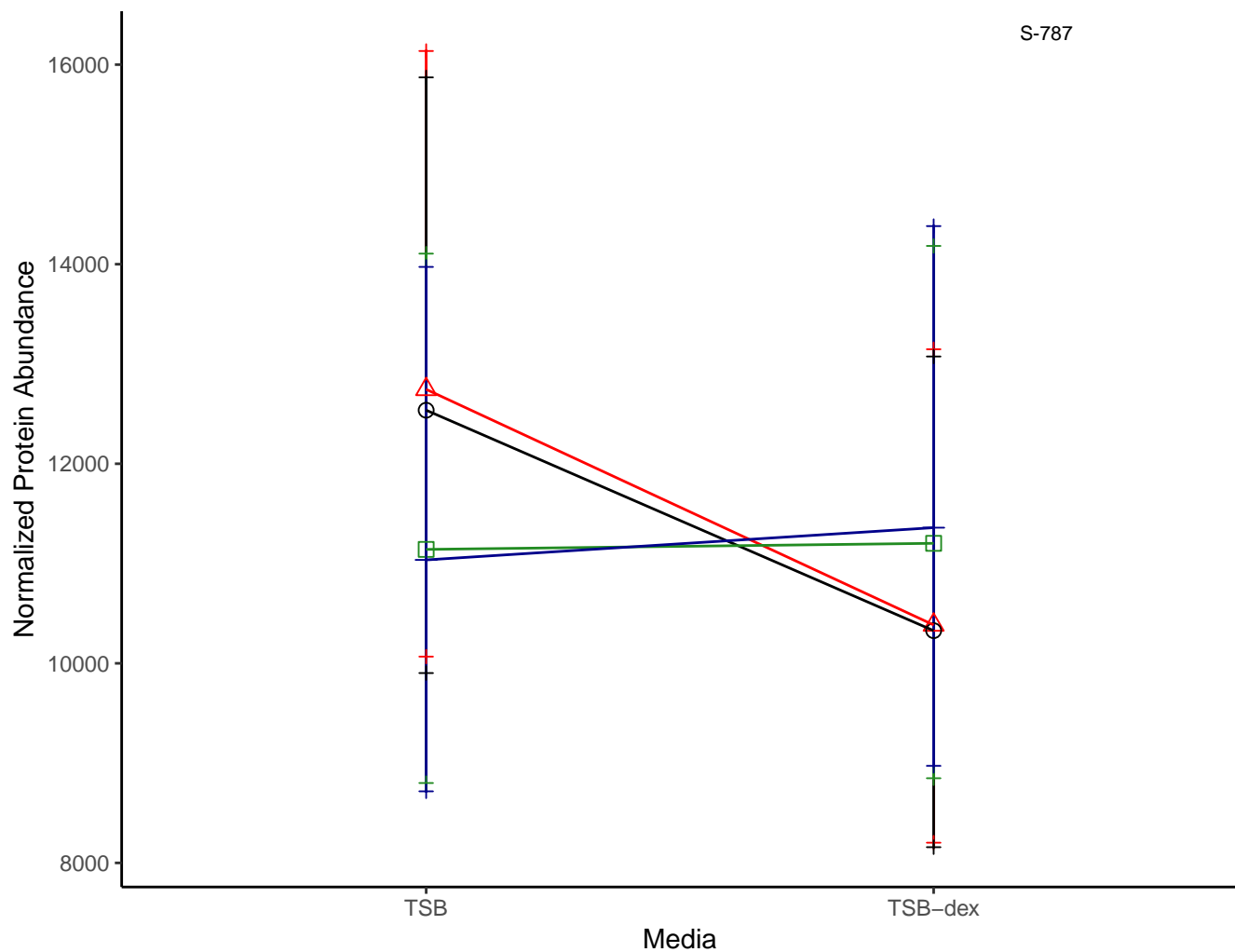
S-786



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PYRB\_STAAM

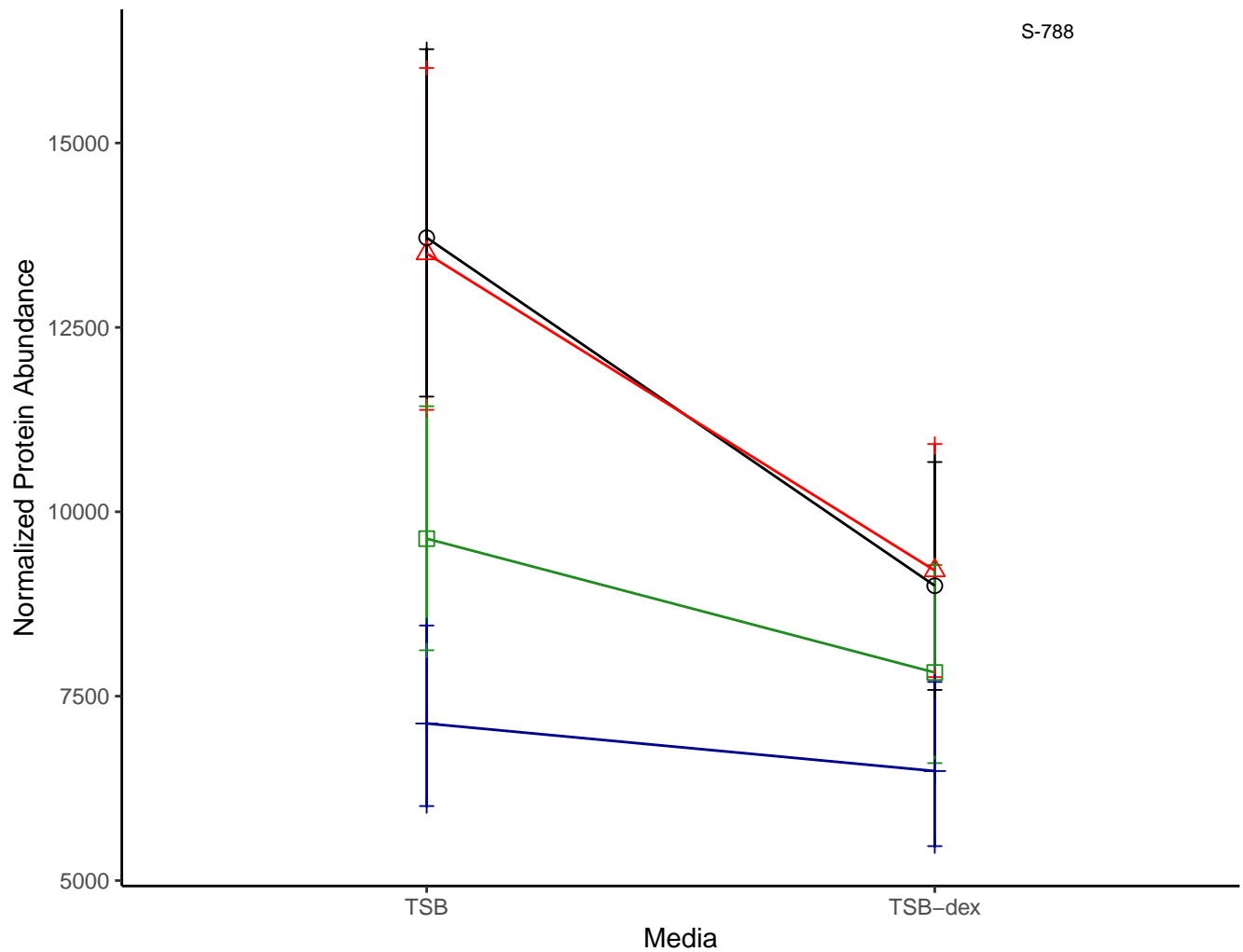
S-787



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRC\_STAAM

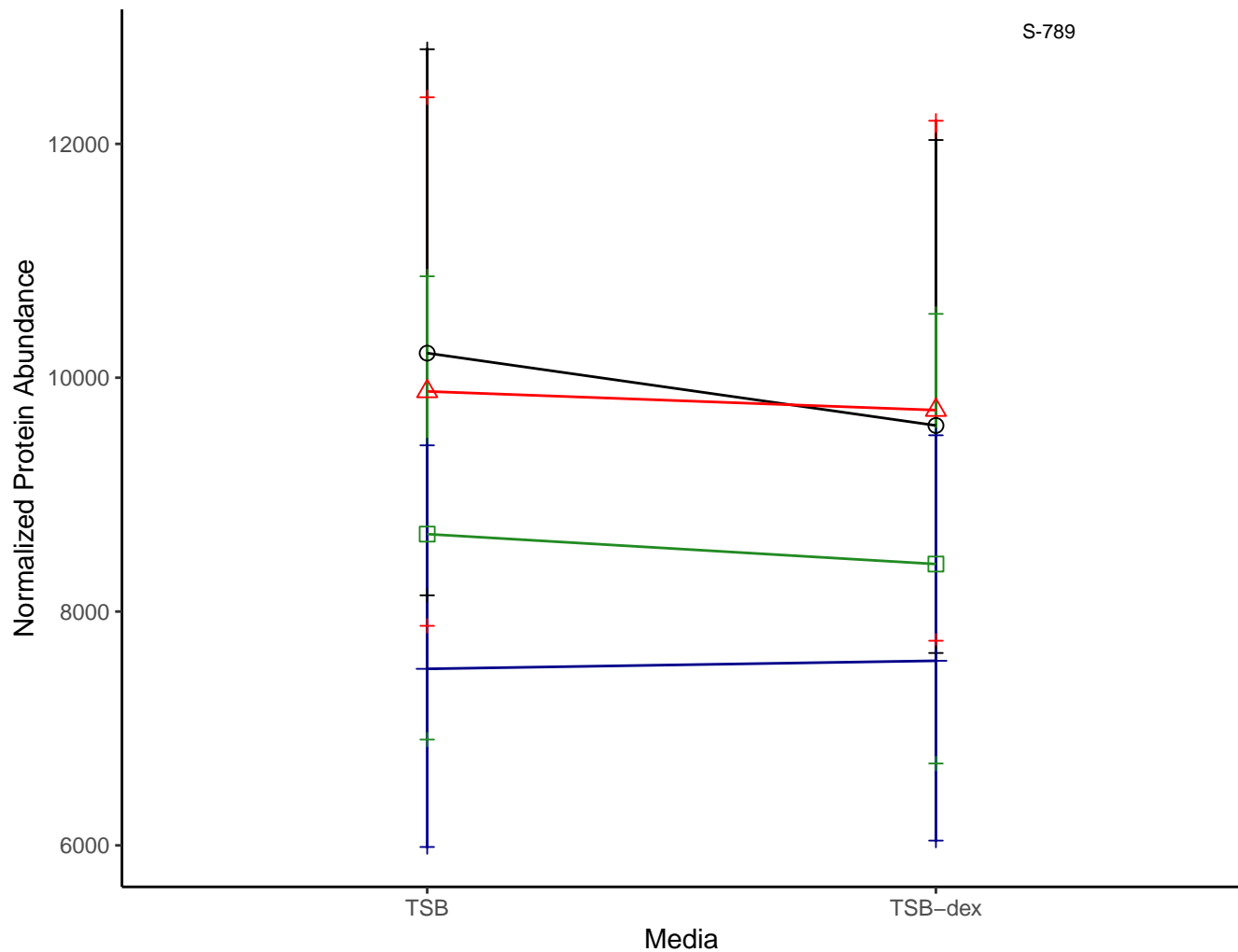
S-788



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRE\_STAAM

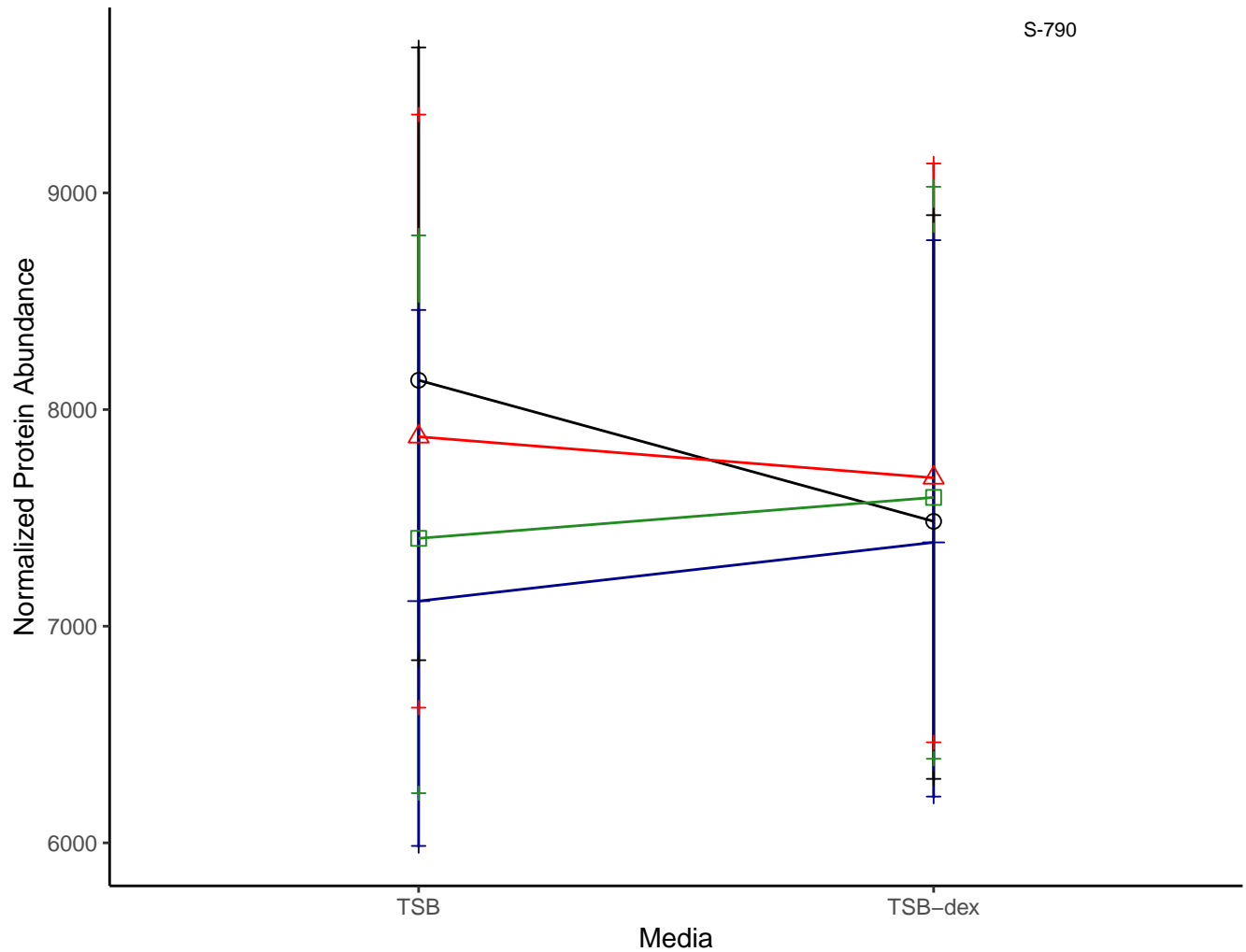
S-789



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PYRF\_STAAM

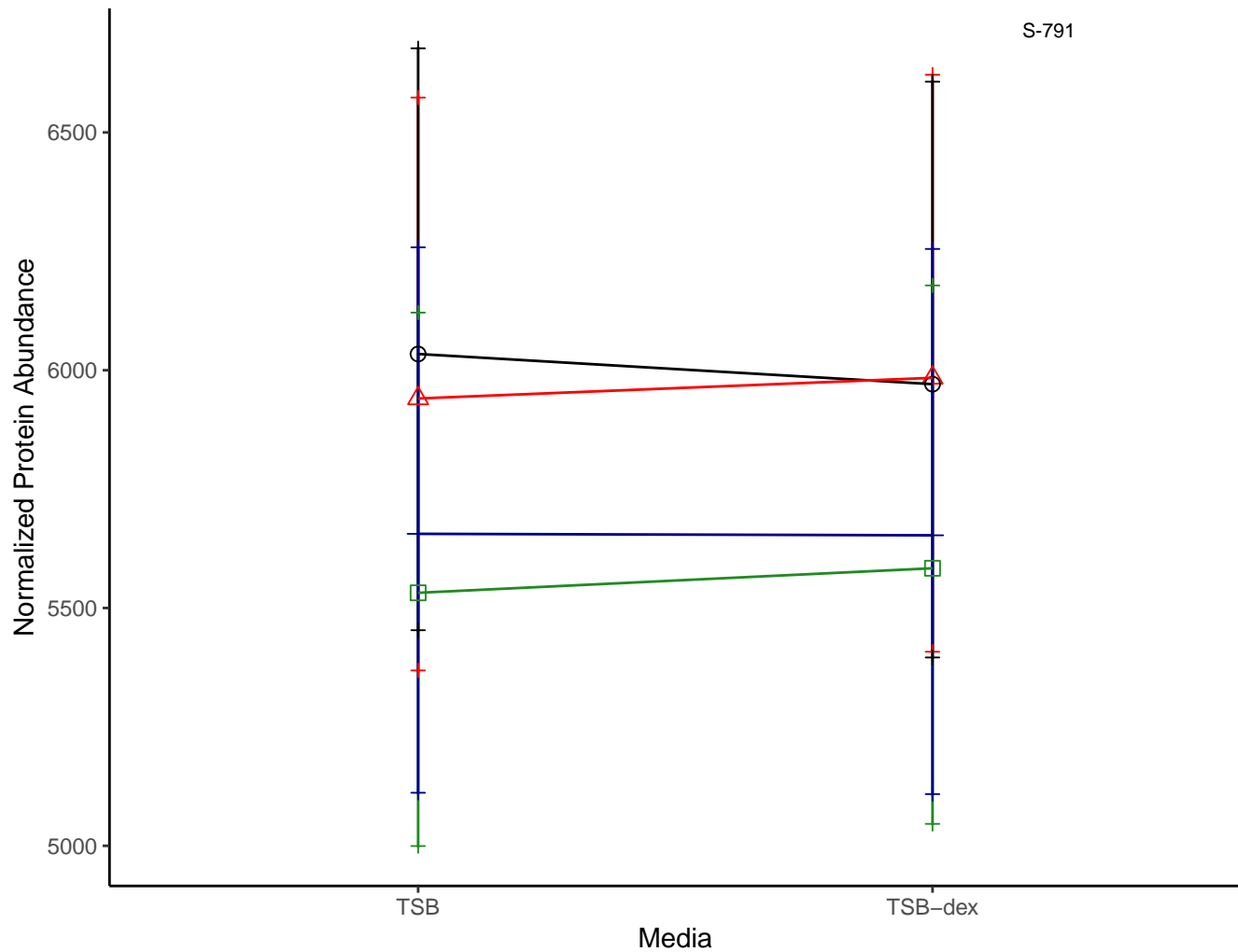
S-790



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PYRG\_STAAM

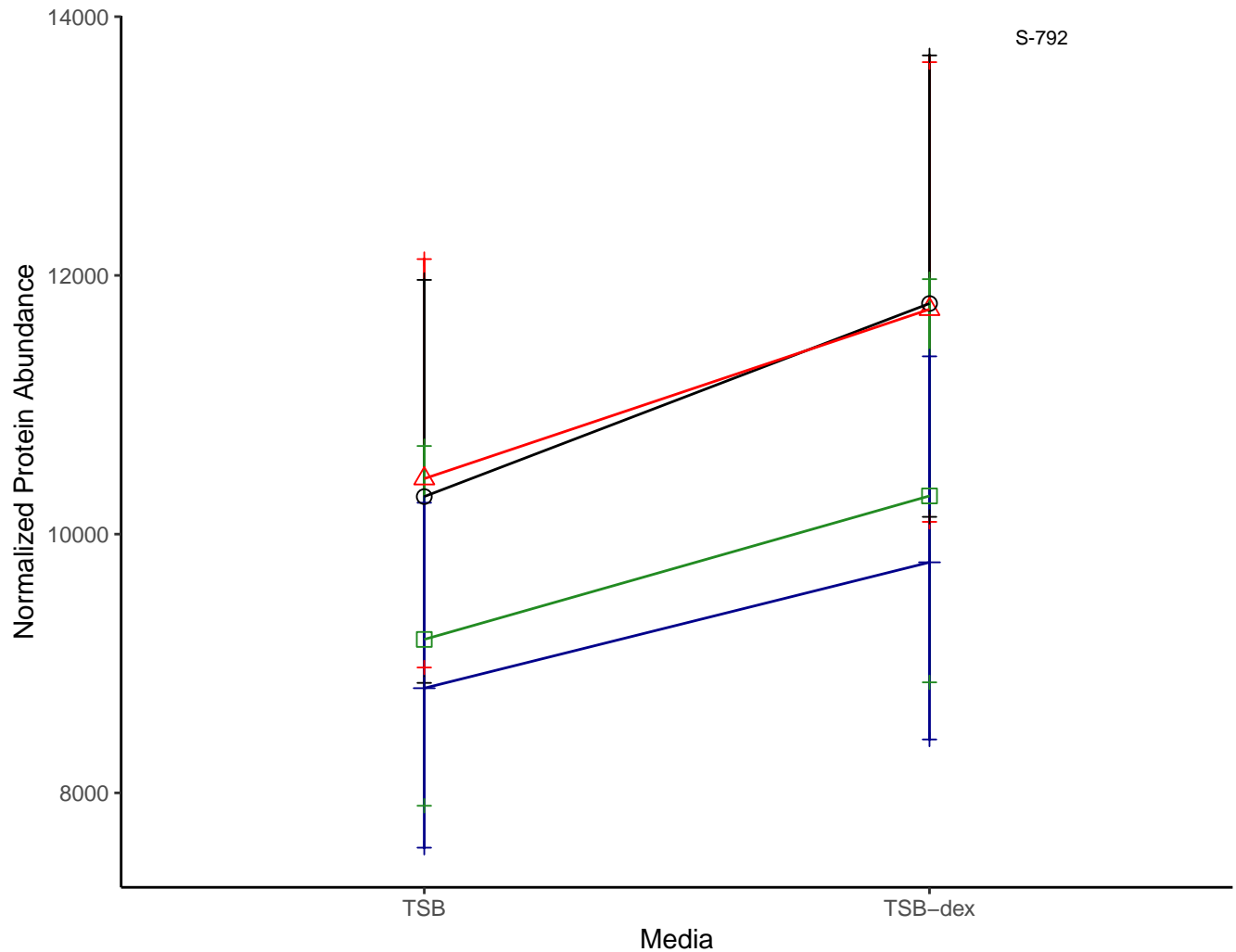
S-791



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# PYRH\_STAAM

S-792

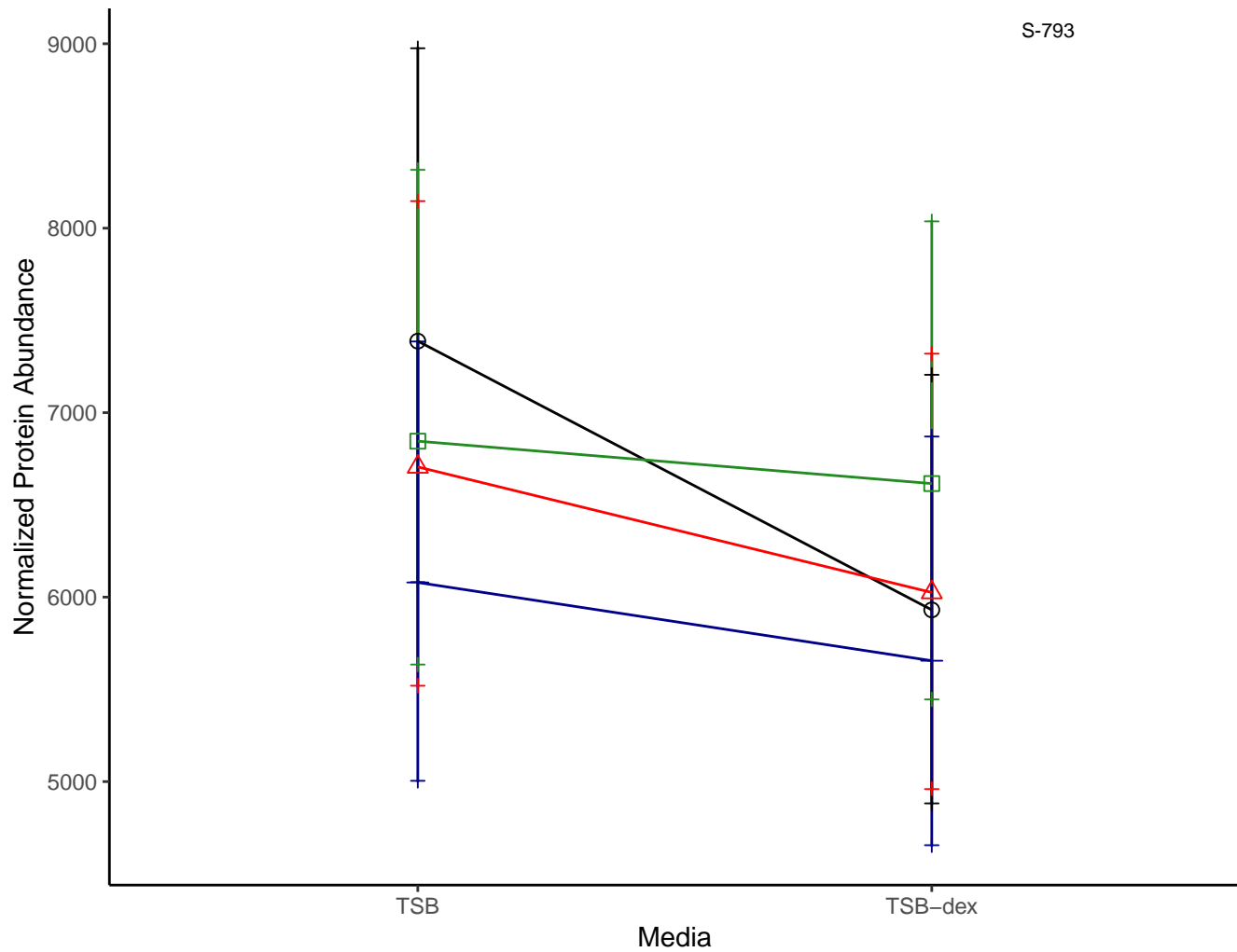


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# PYRR\_STAAM

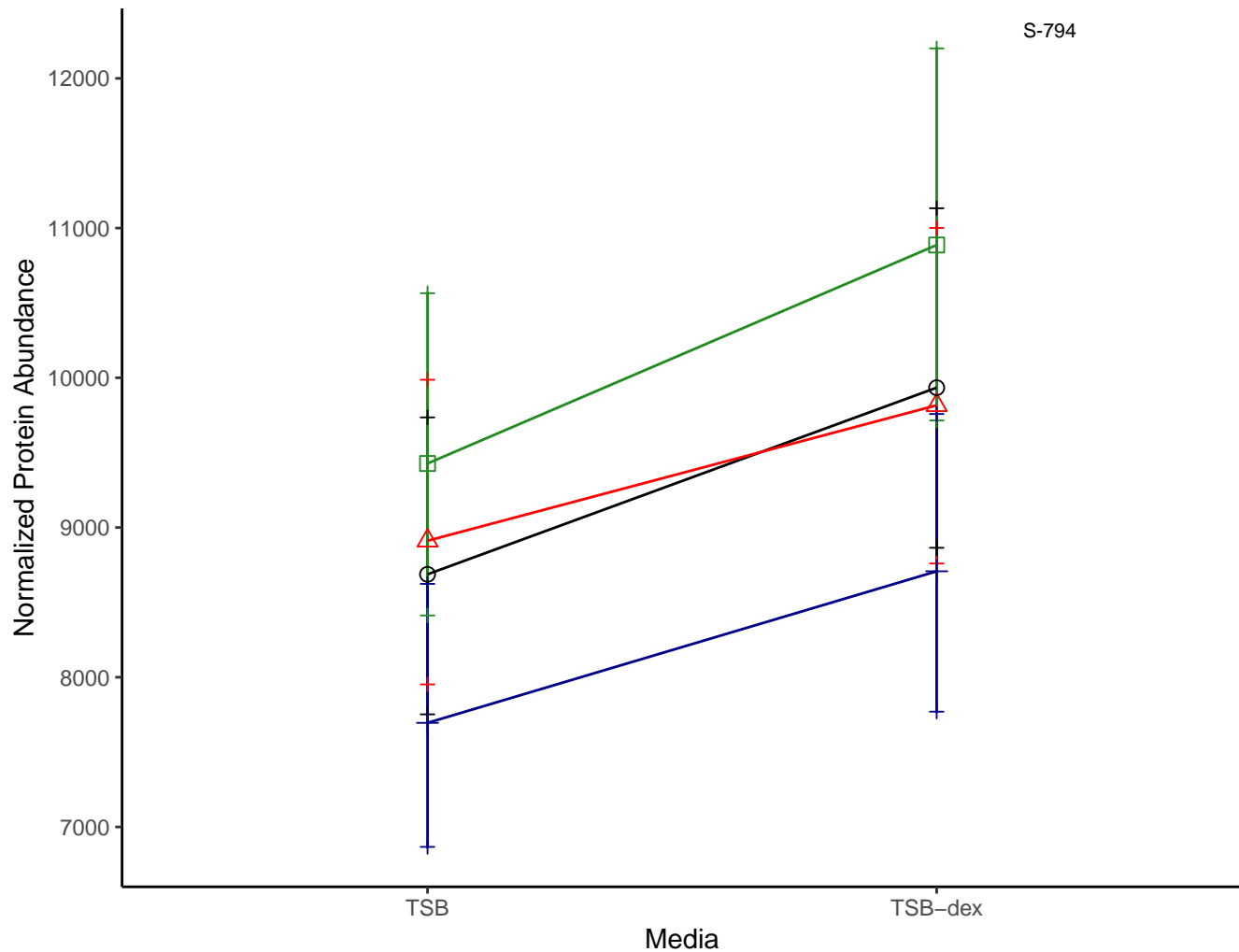
S-793



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# QOX2\_STAAM

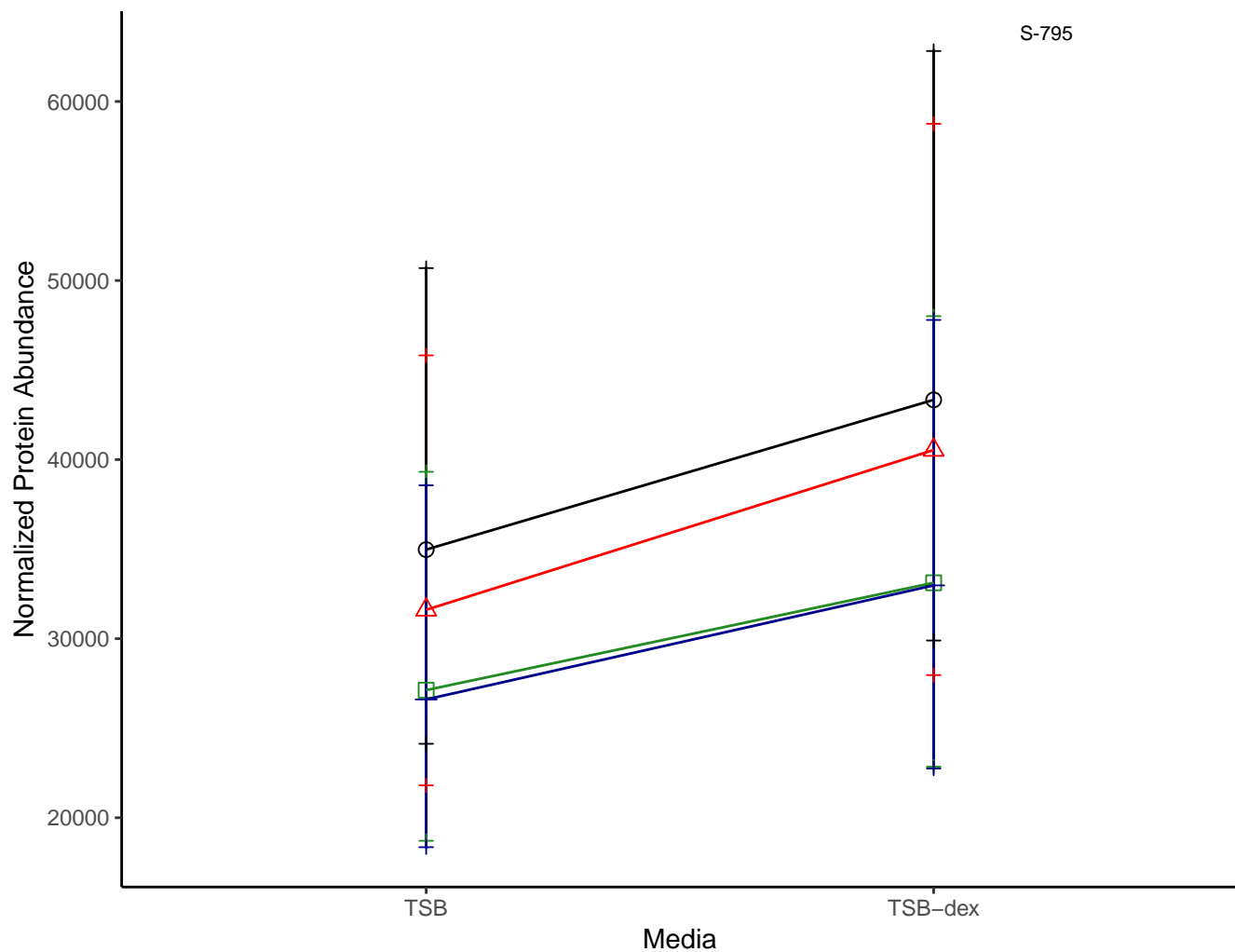
S-794



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# QUEA\_STAAM

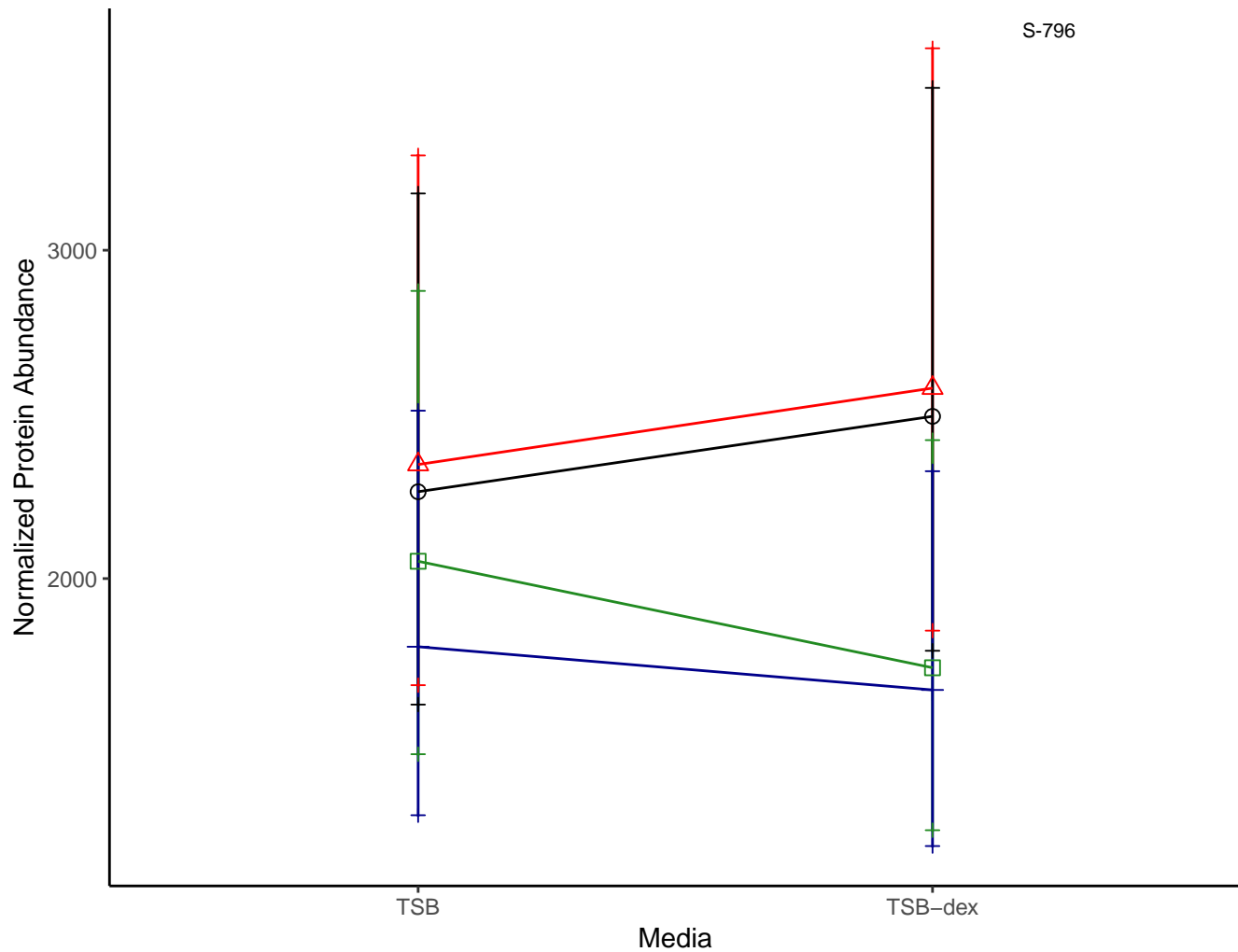
S-795



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# QUEC\_STAAM

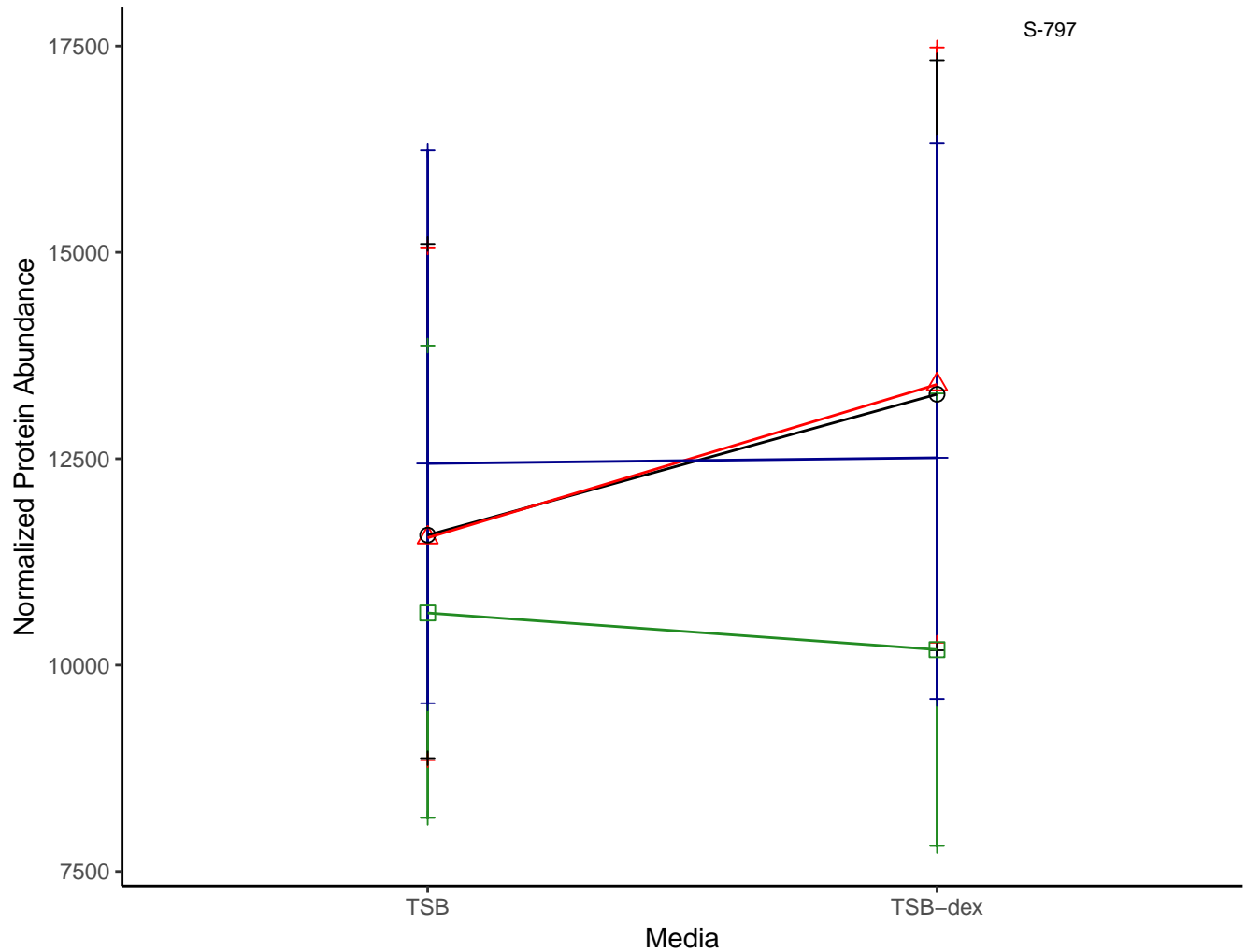
S-796



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RBFA\_STAAM

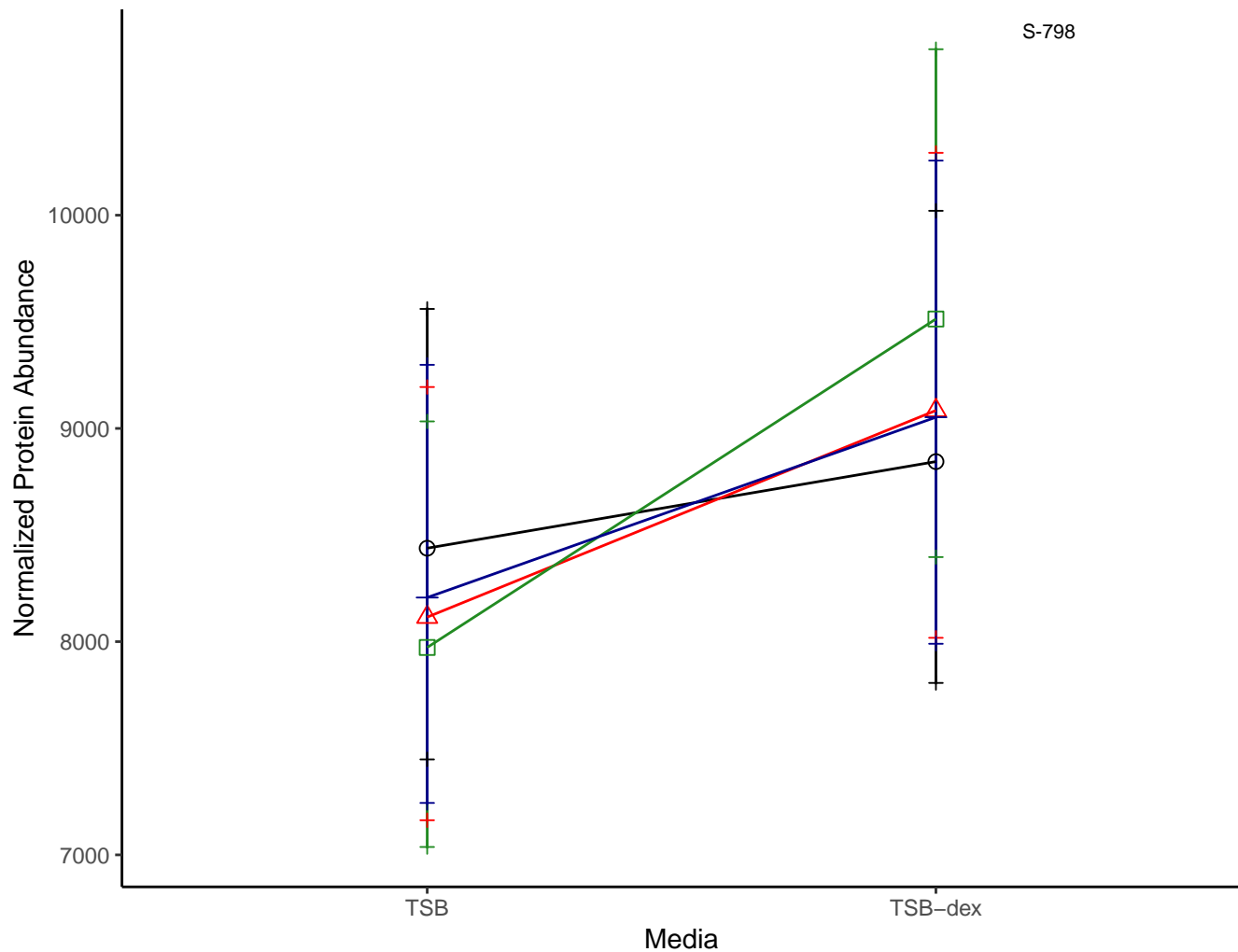
S-797



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RECA\_STAAM

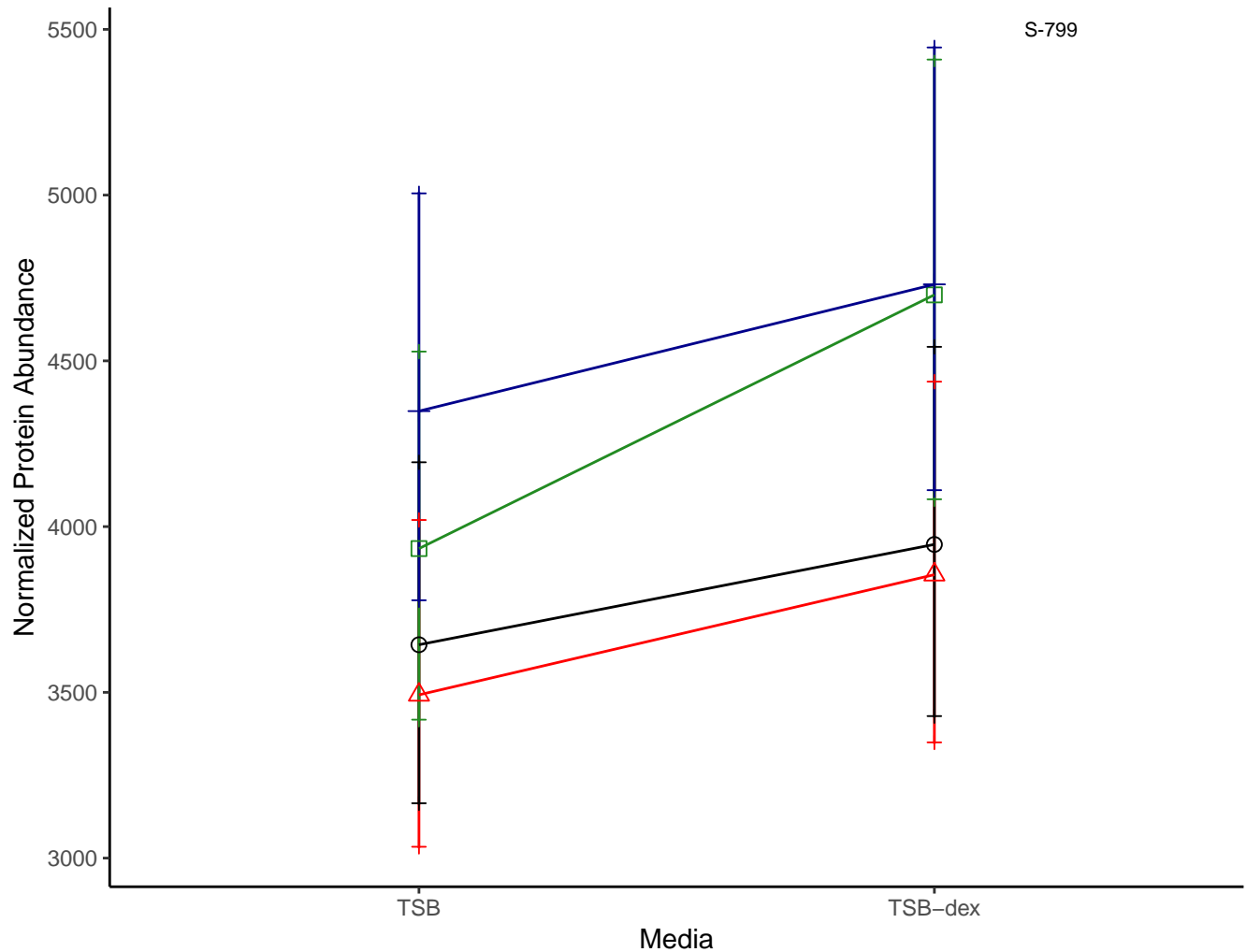
S-798



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RELA\_STAAM

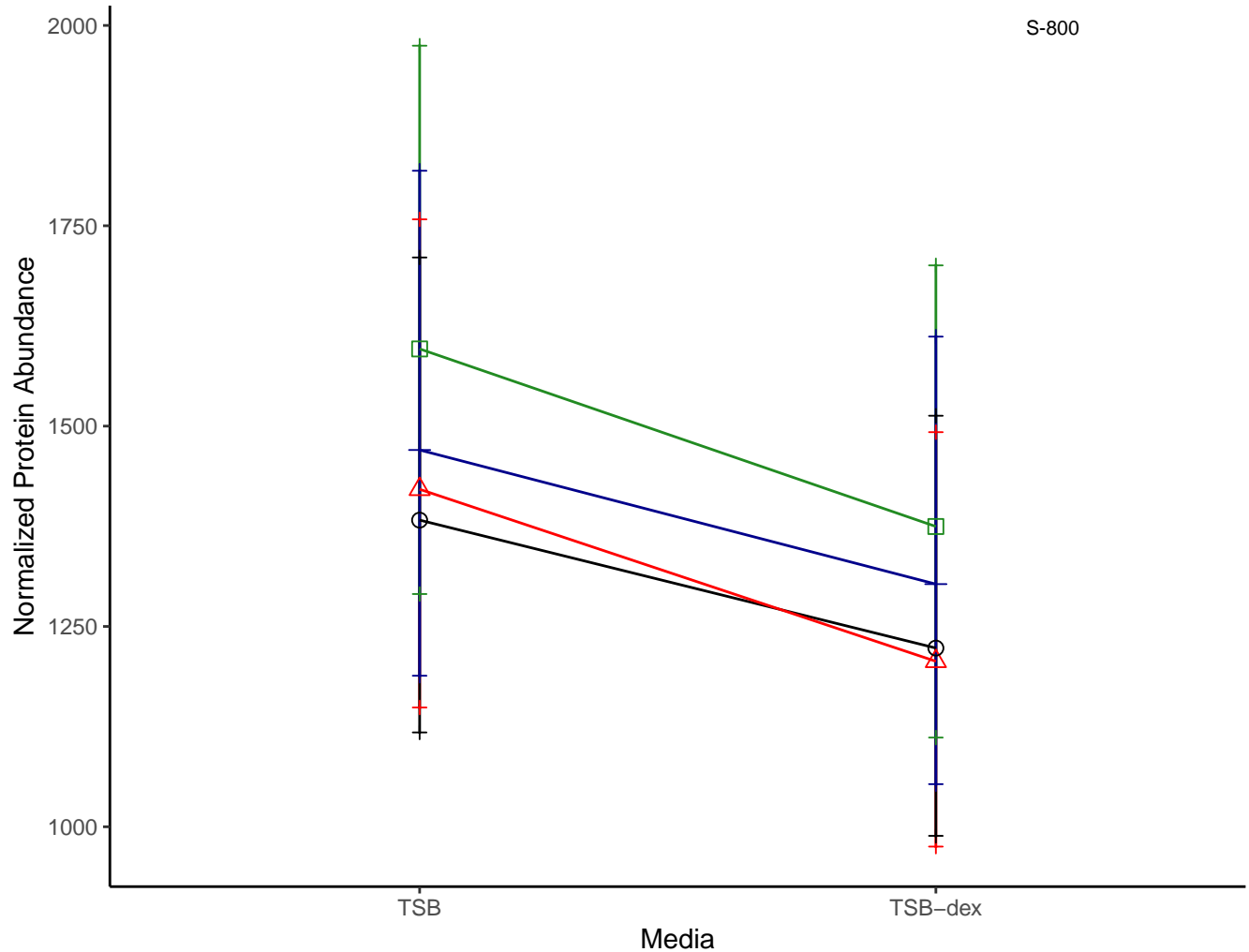
S-799



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# REX\_STAAM

S-800

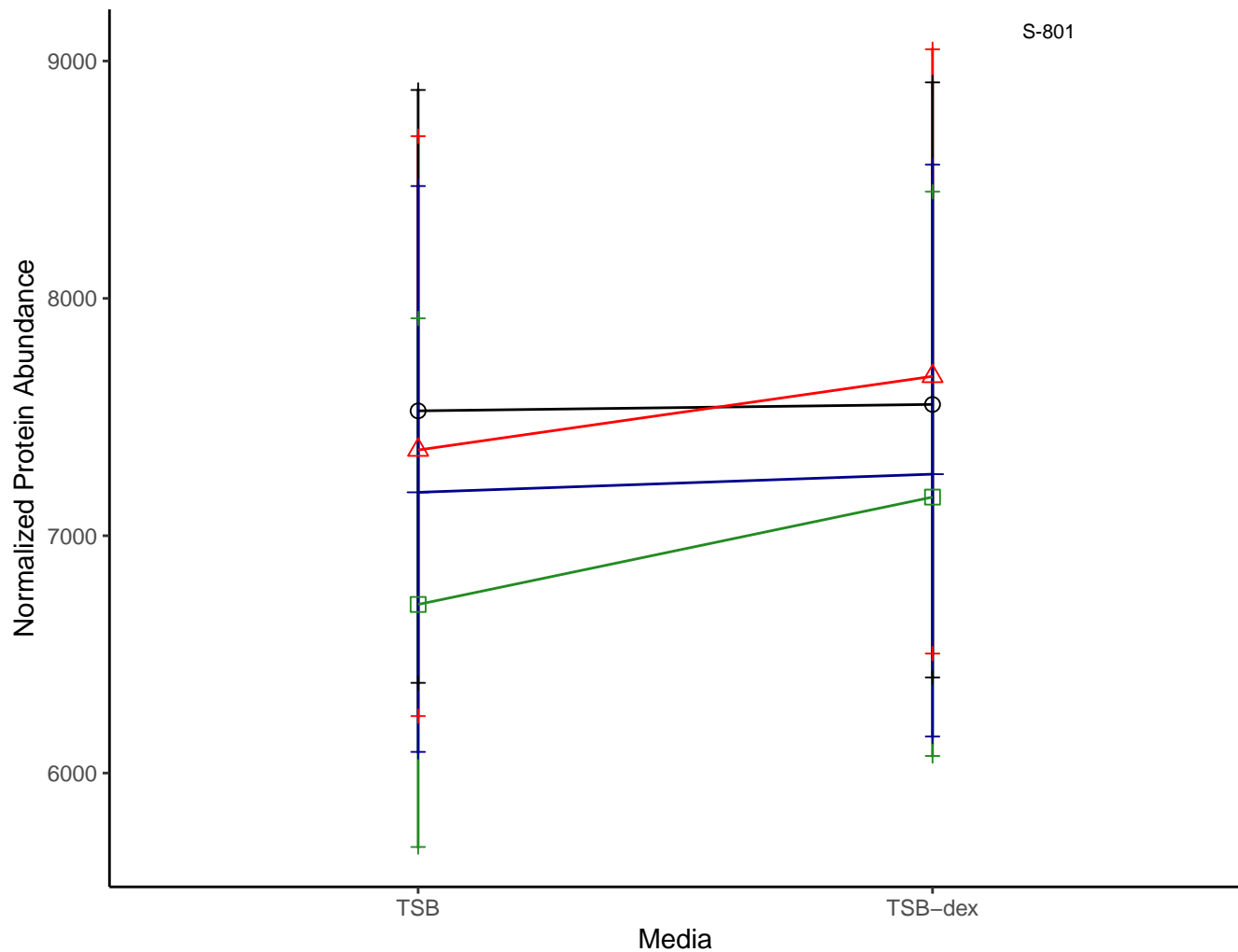


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



## RF1\_STAAM

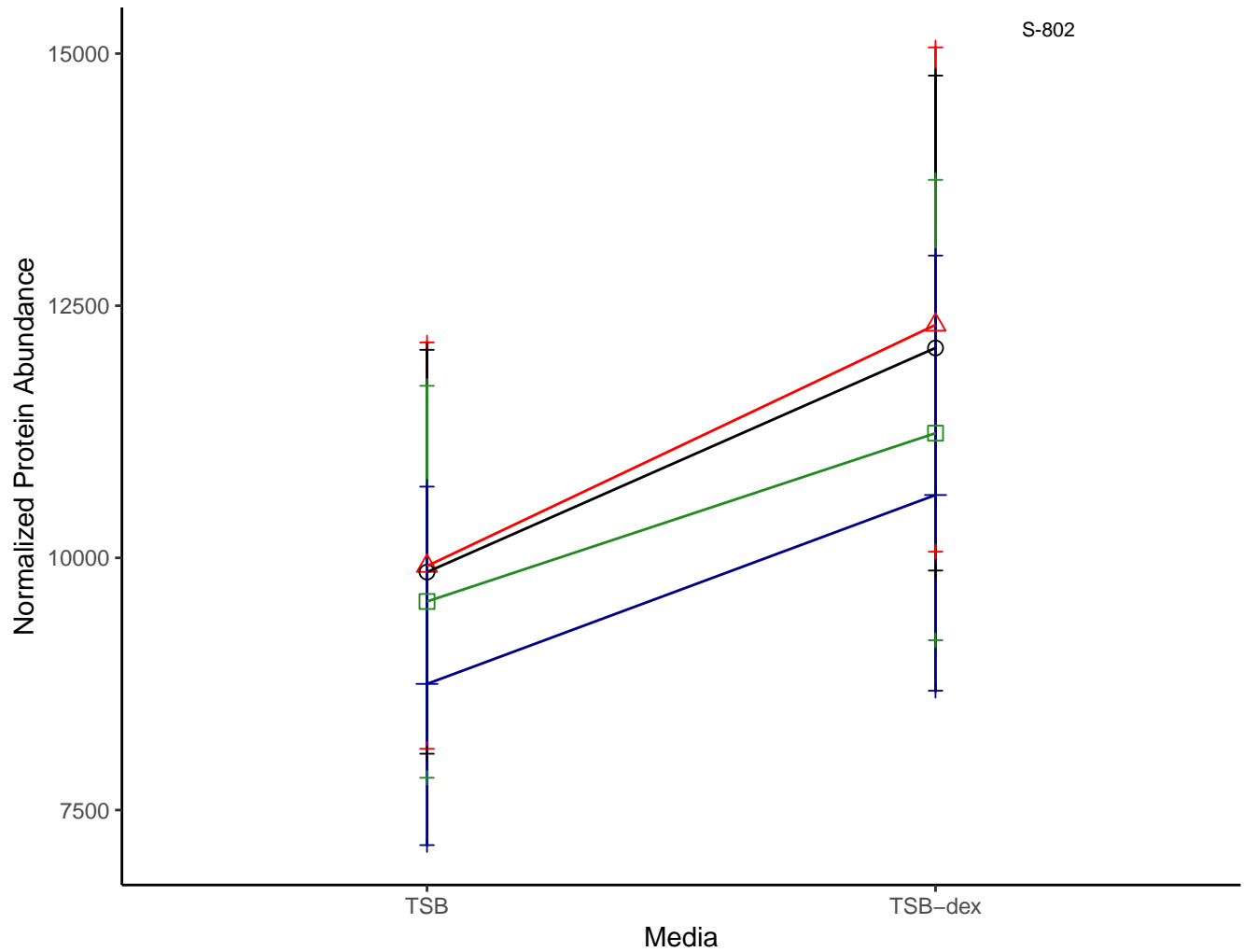
S-801



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RIBBA\_STAAM

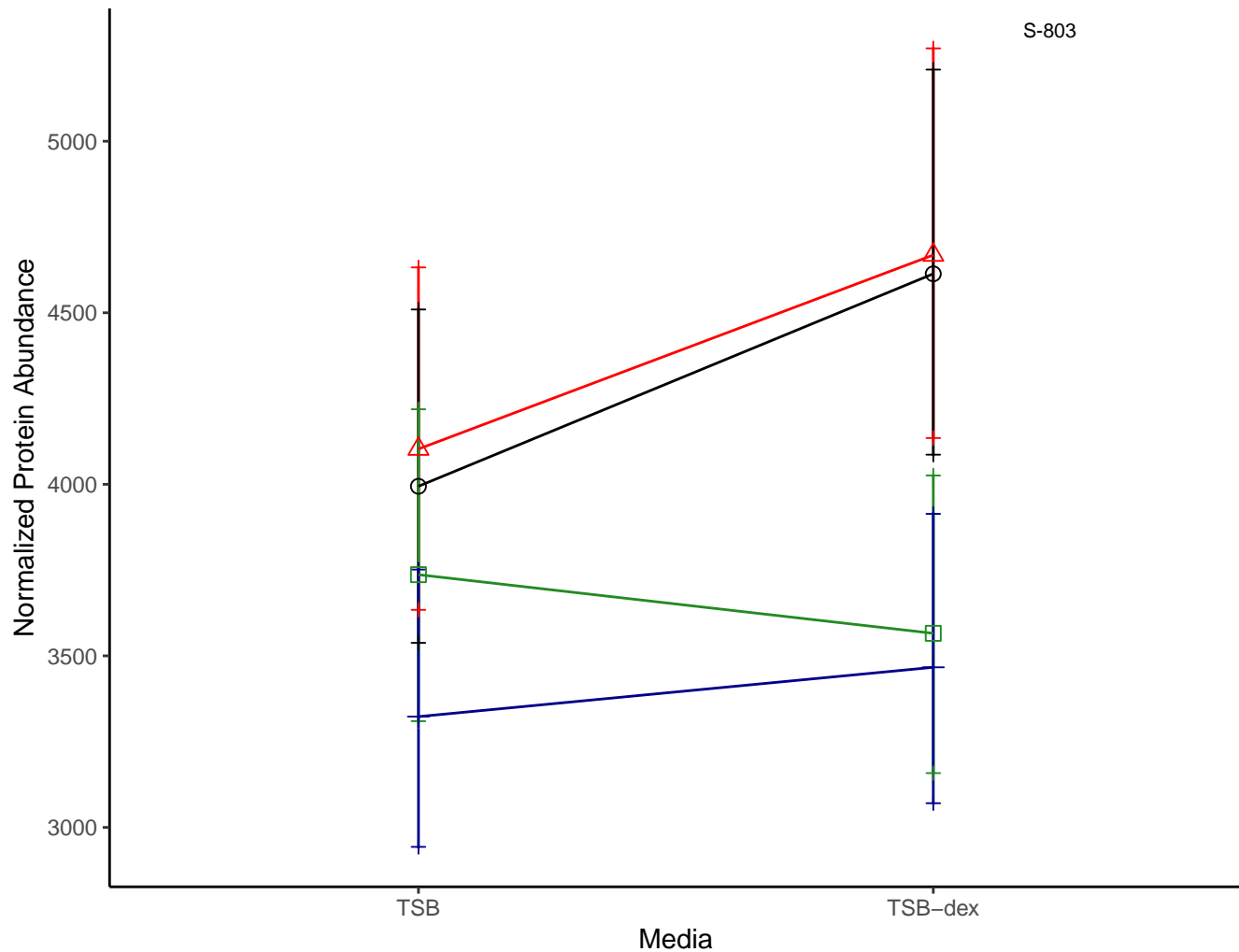
S-802



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RIMM\_STAAM

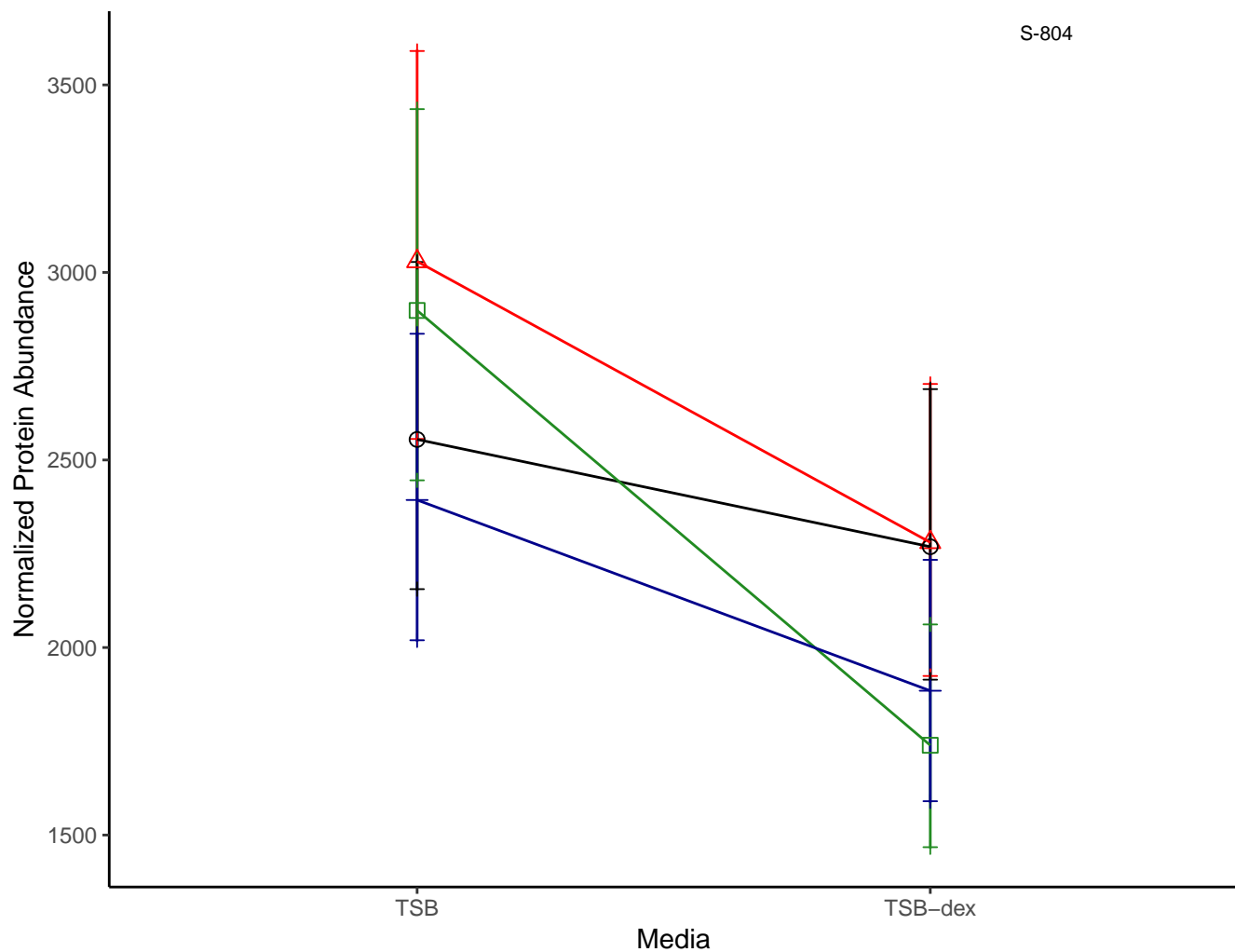
S-803



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RISB\_STAAM

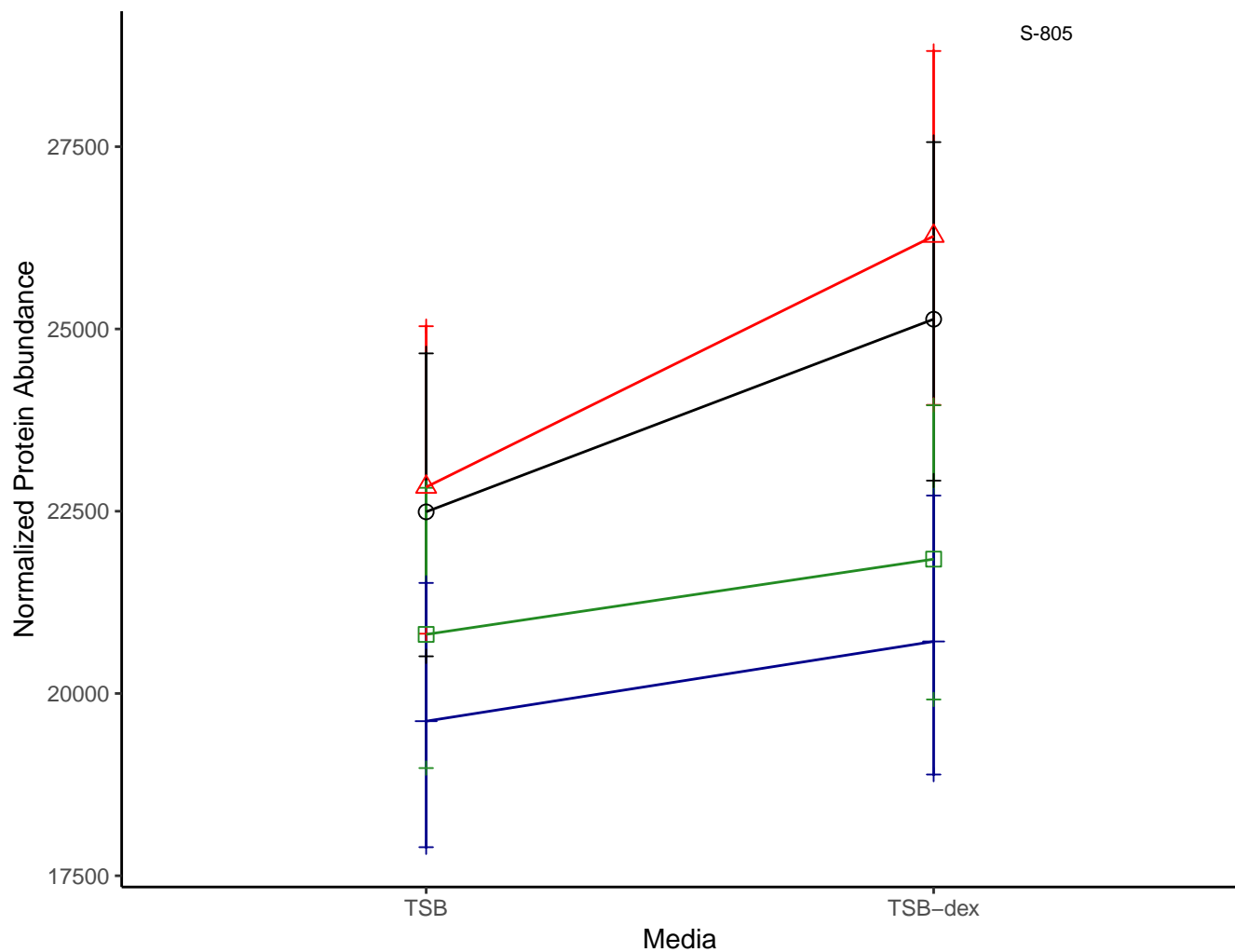
S-804



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# RL1\_STAAM

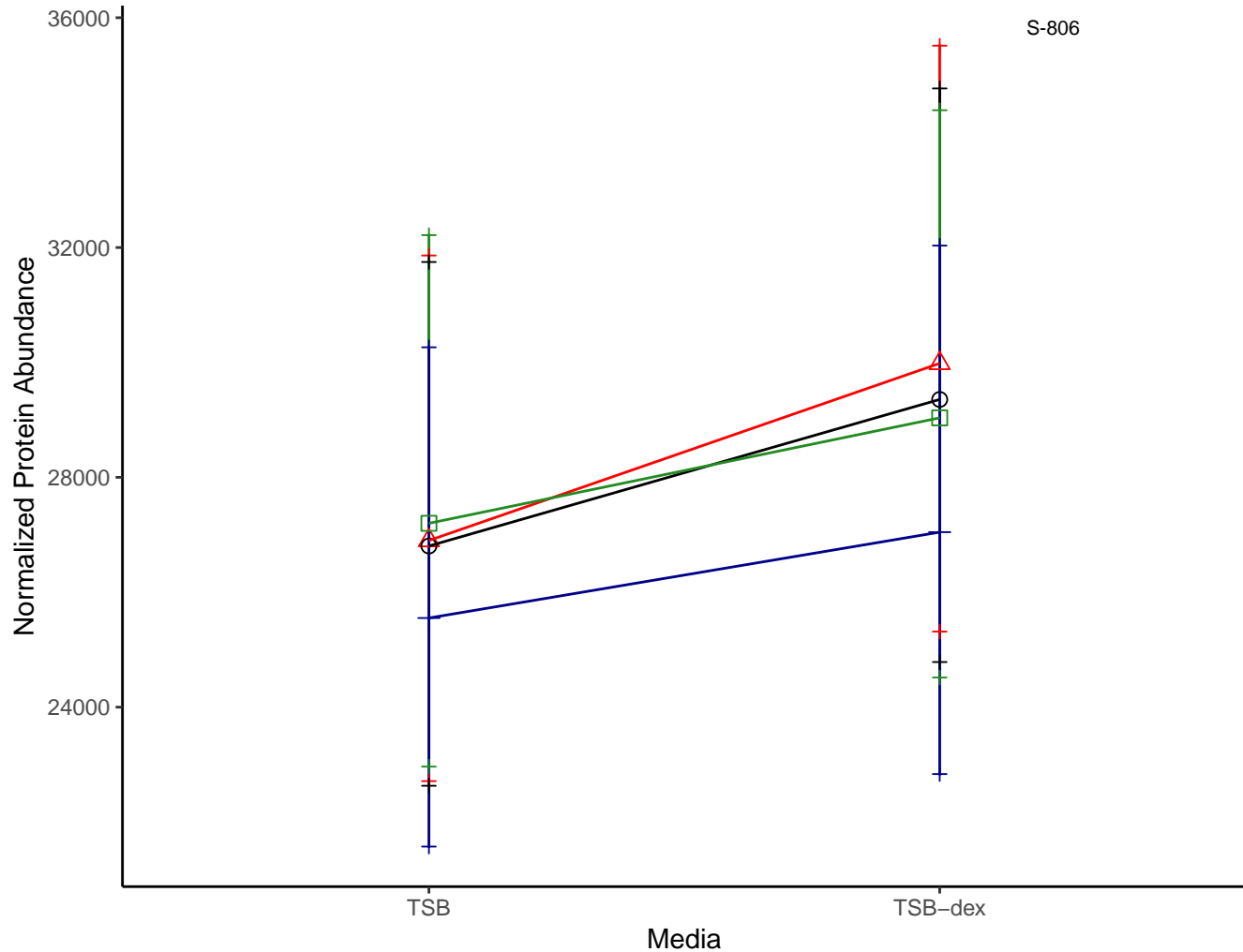
S-805



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL10\_STAAM

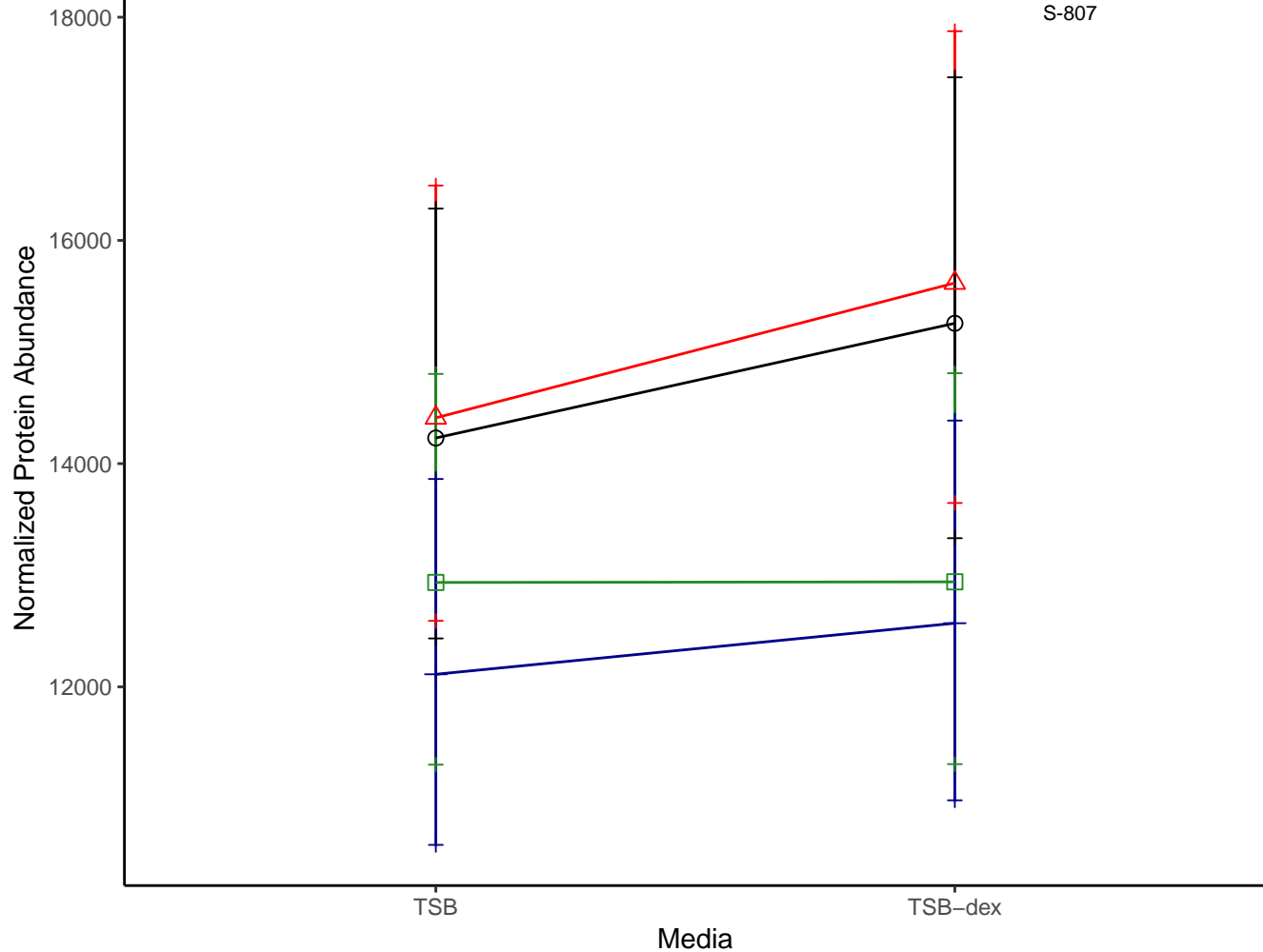
S-806



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL11\_STAAM

S-807



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# RL13\_STAAM

S-808

Normalized Protein Abundance

25000

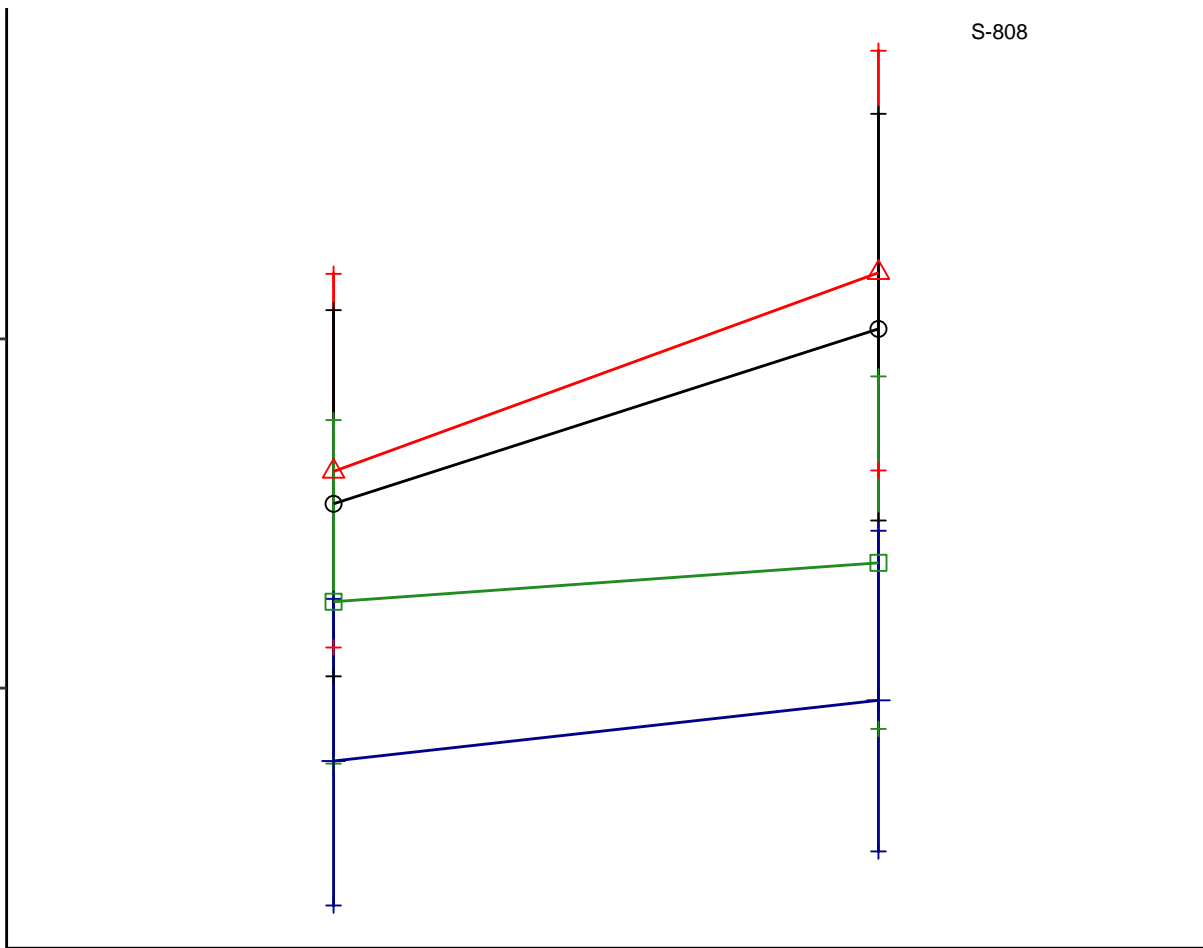
20000

TSB

TSB-dex

Media

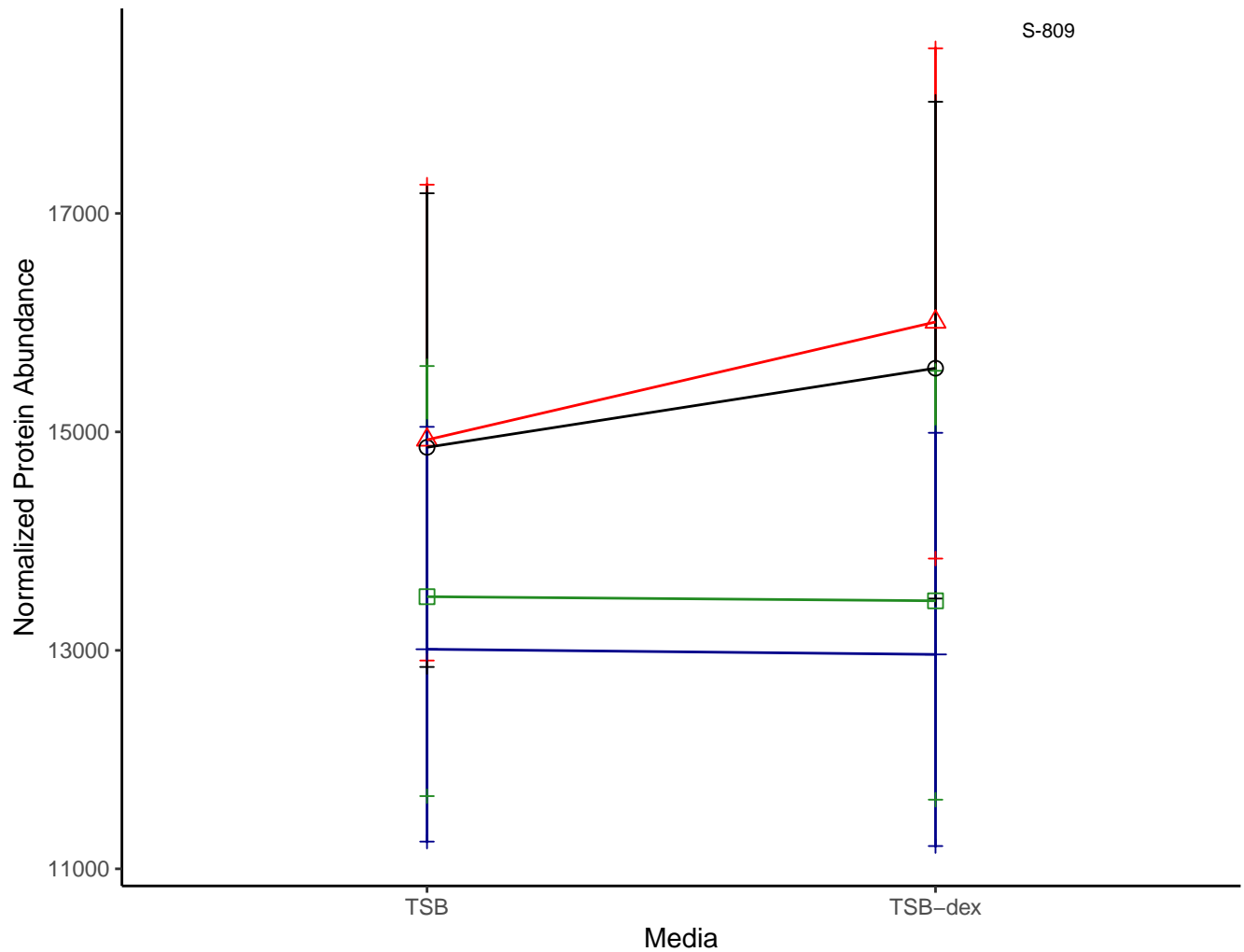
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*





# RL14\_STAAM

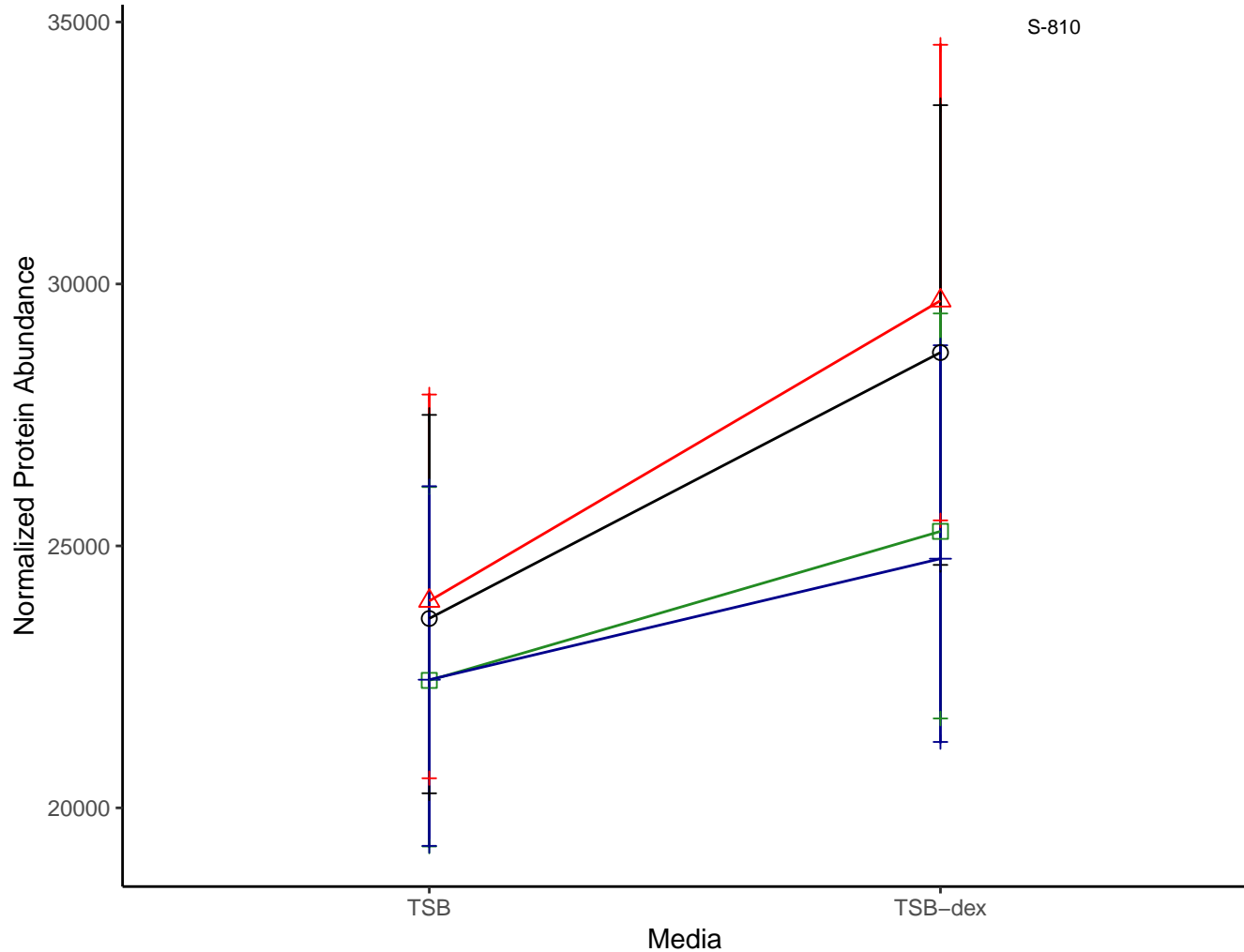
S-809



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL15\_STAAM

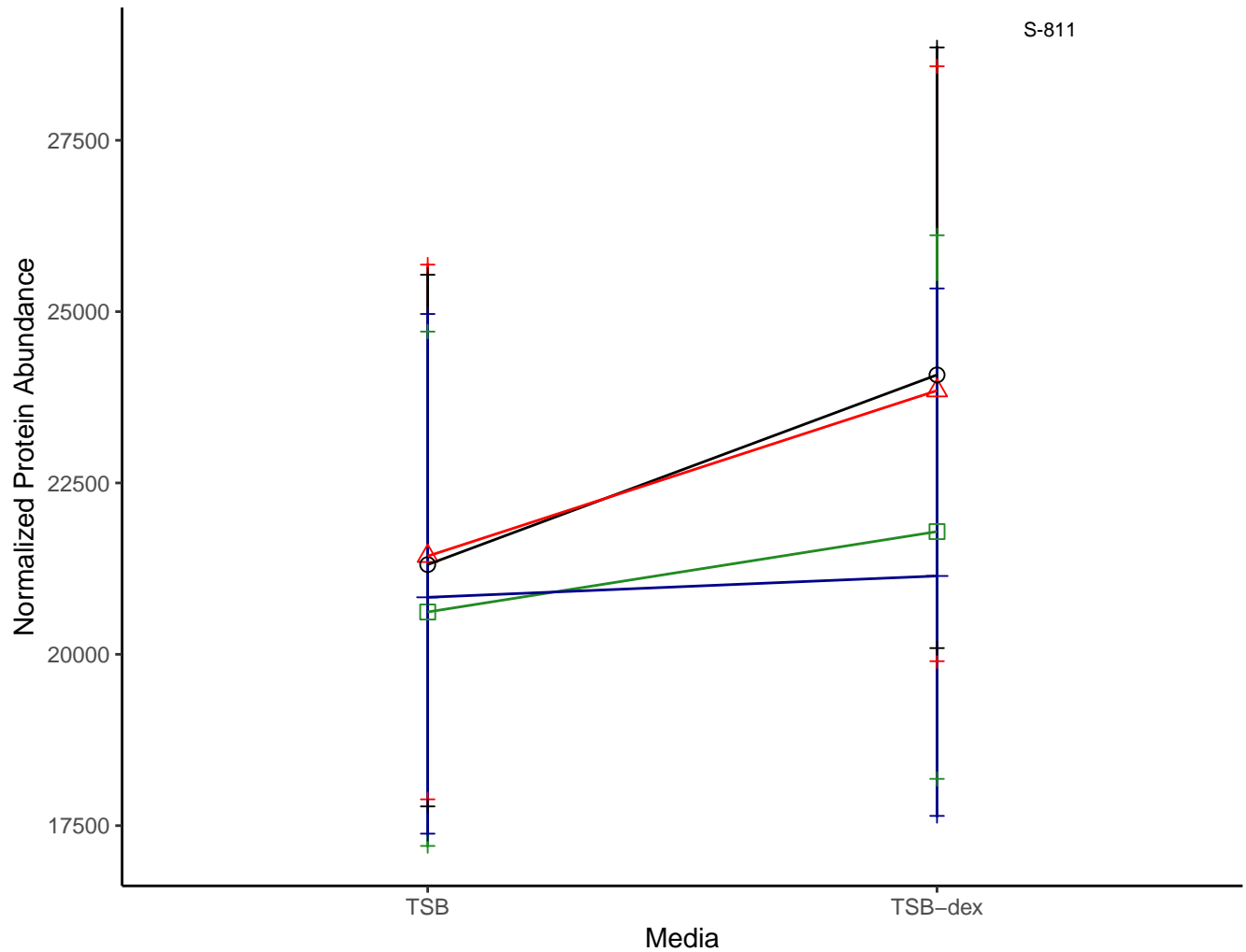
S-810



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL16\_STAAM

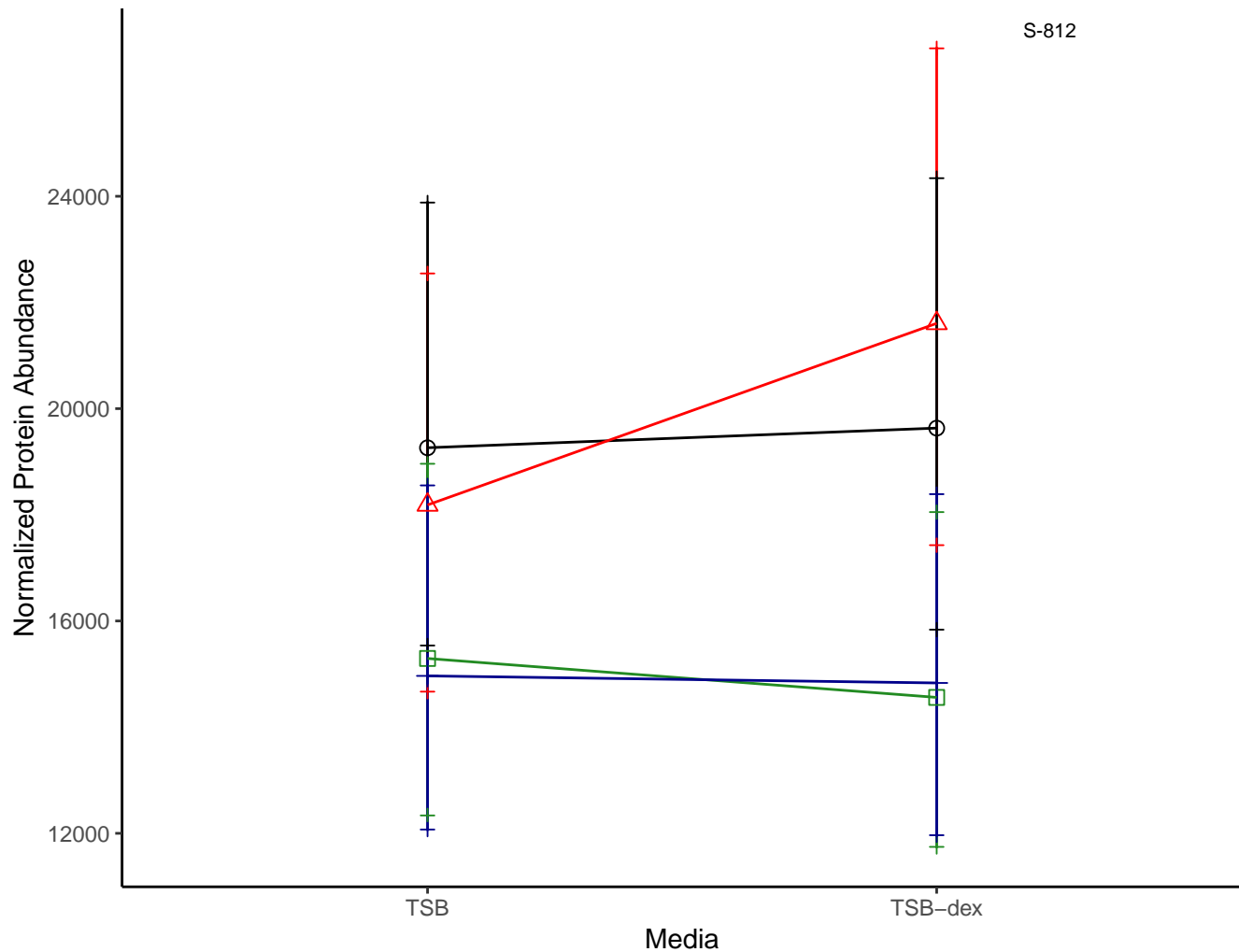
S-811



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL17\_STAAM

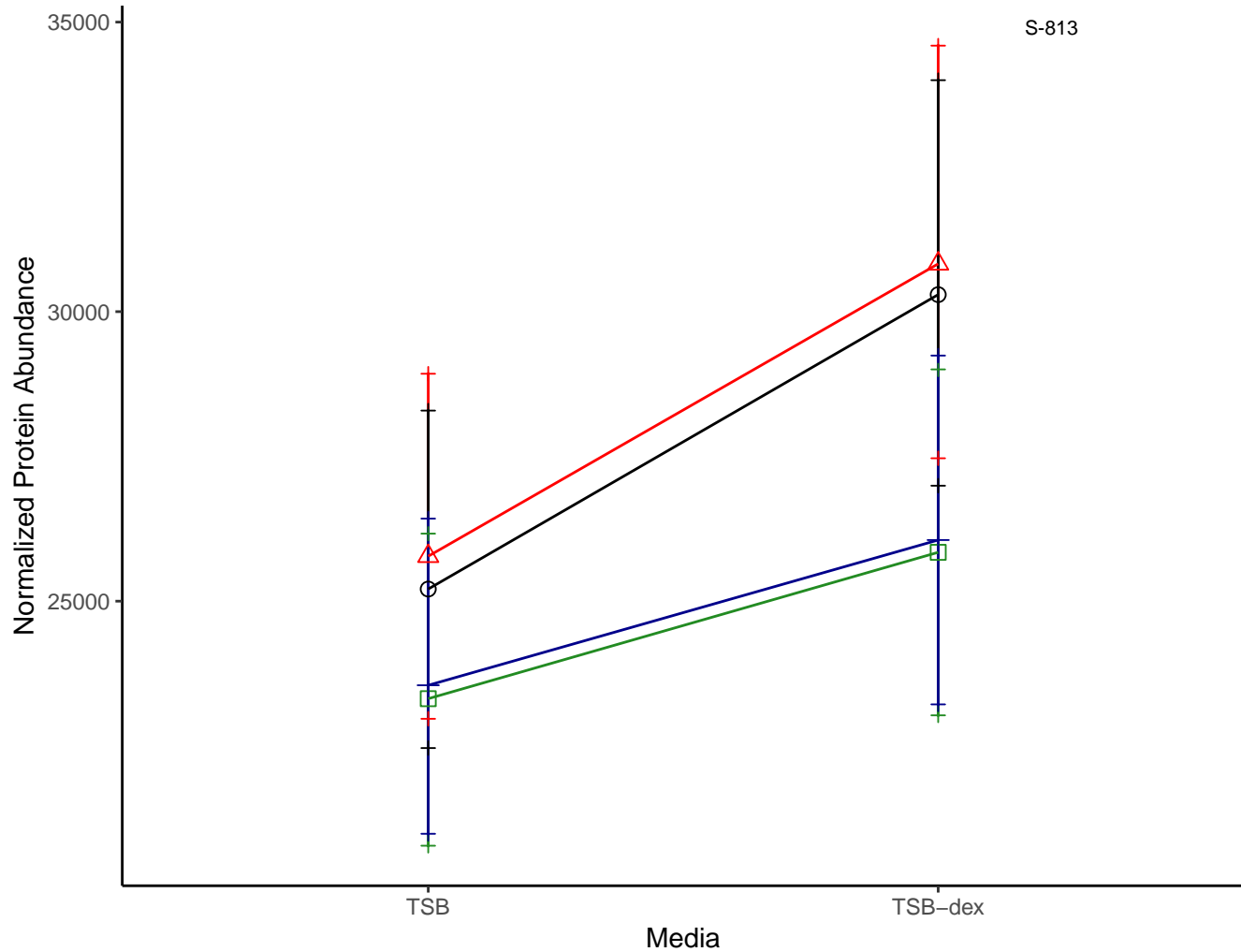
S-812



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL18\_STAAM

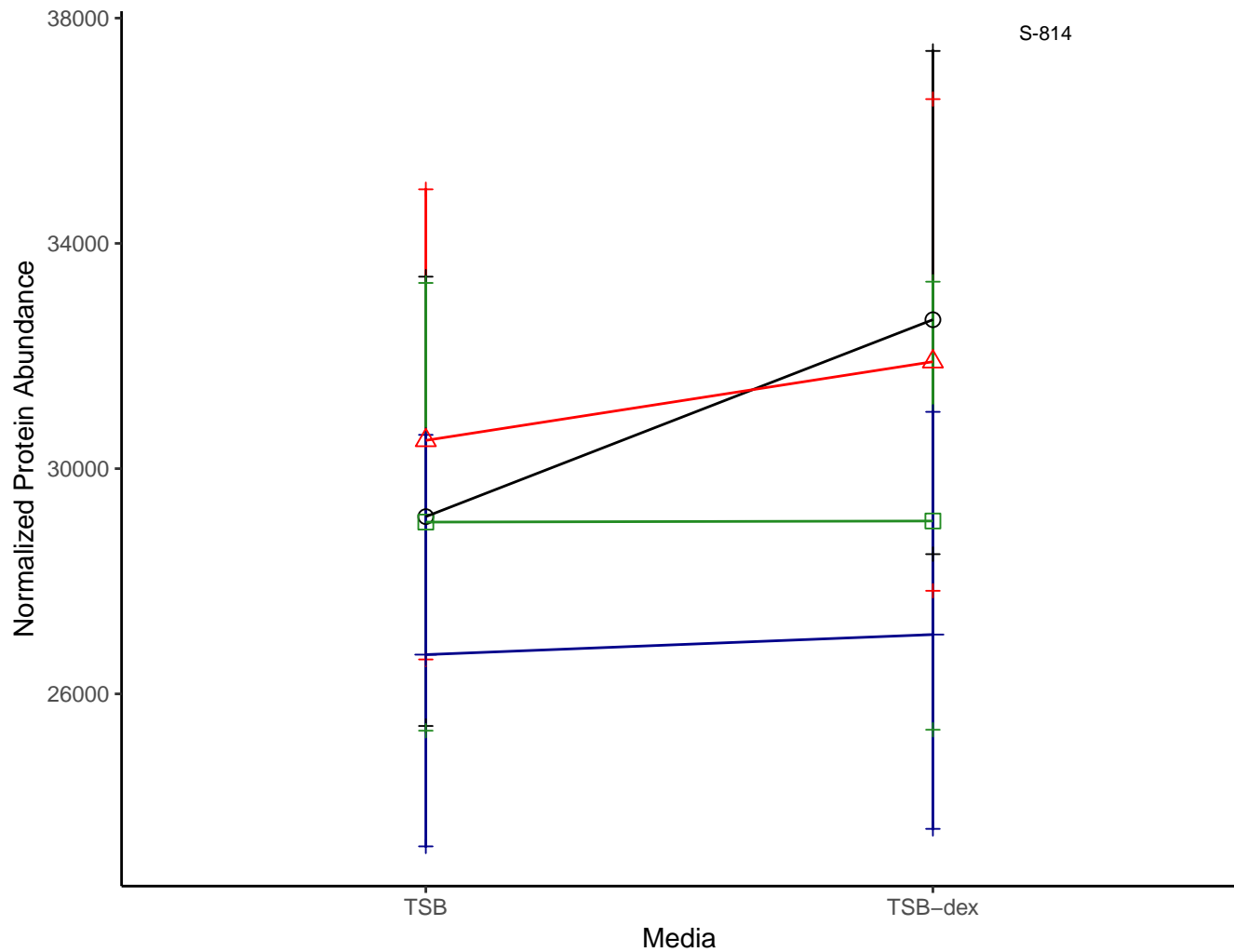
S-813



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL19\_STAAM

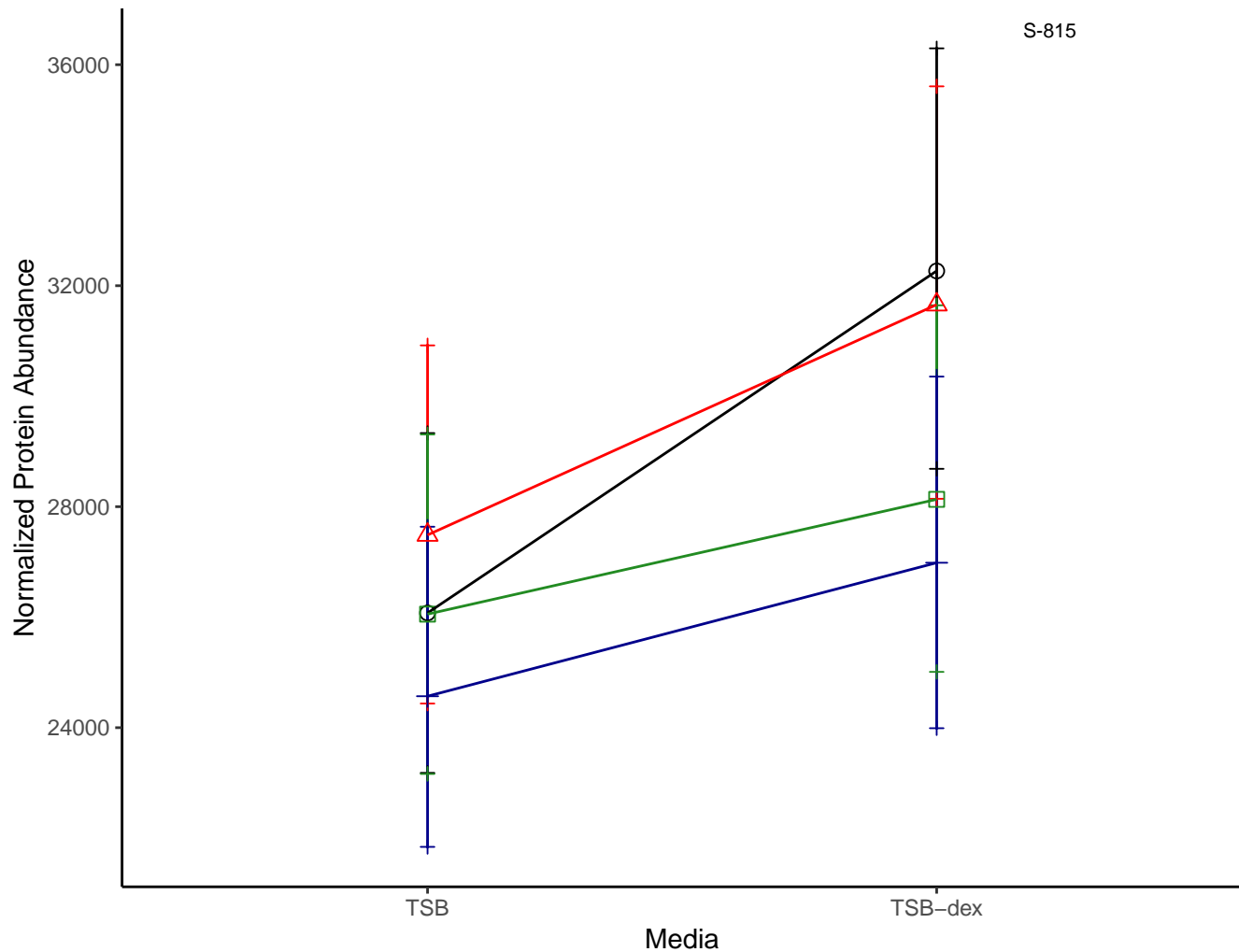
S-814



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# RL2\_STAAM

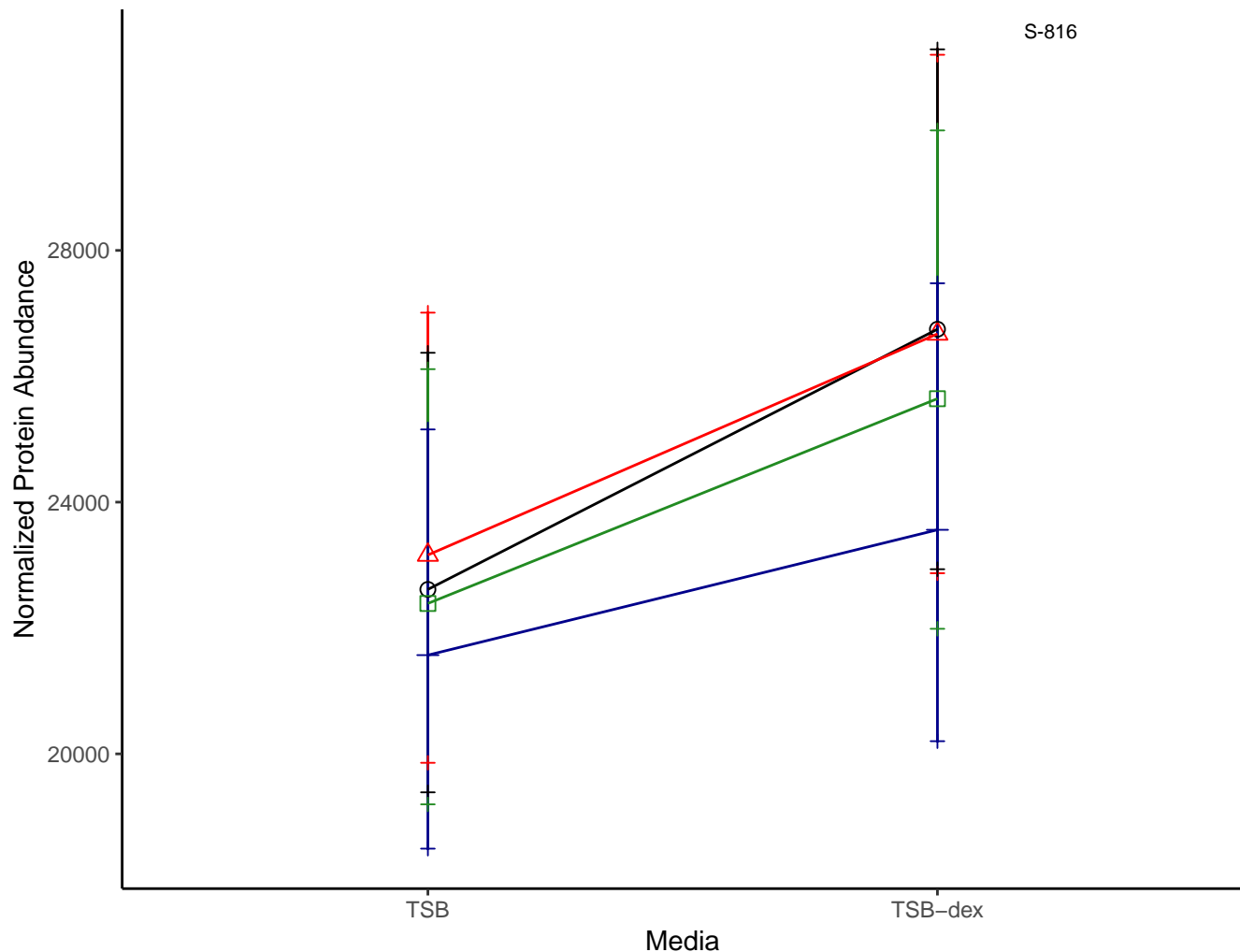
S-815



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RL20\_STAAM

S-816

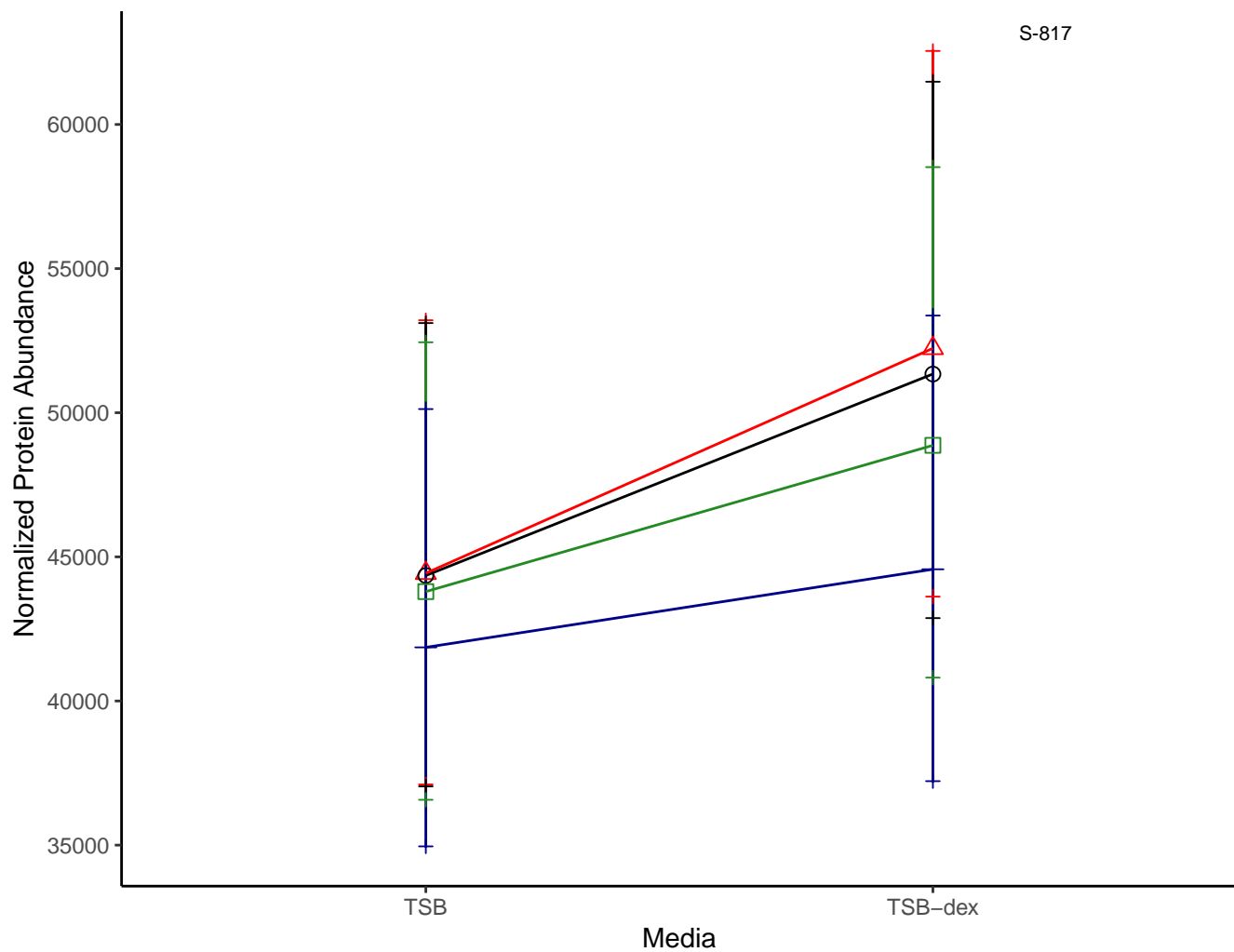


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# RL21\_STAAM

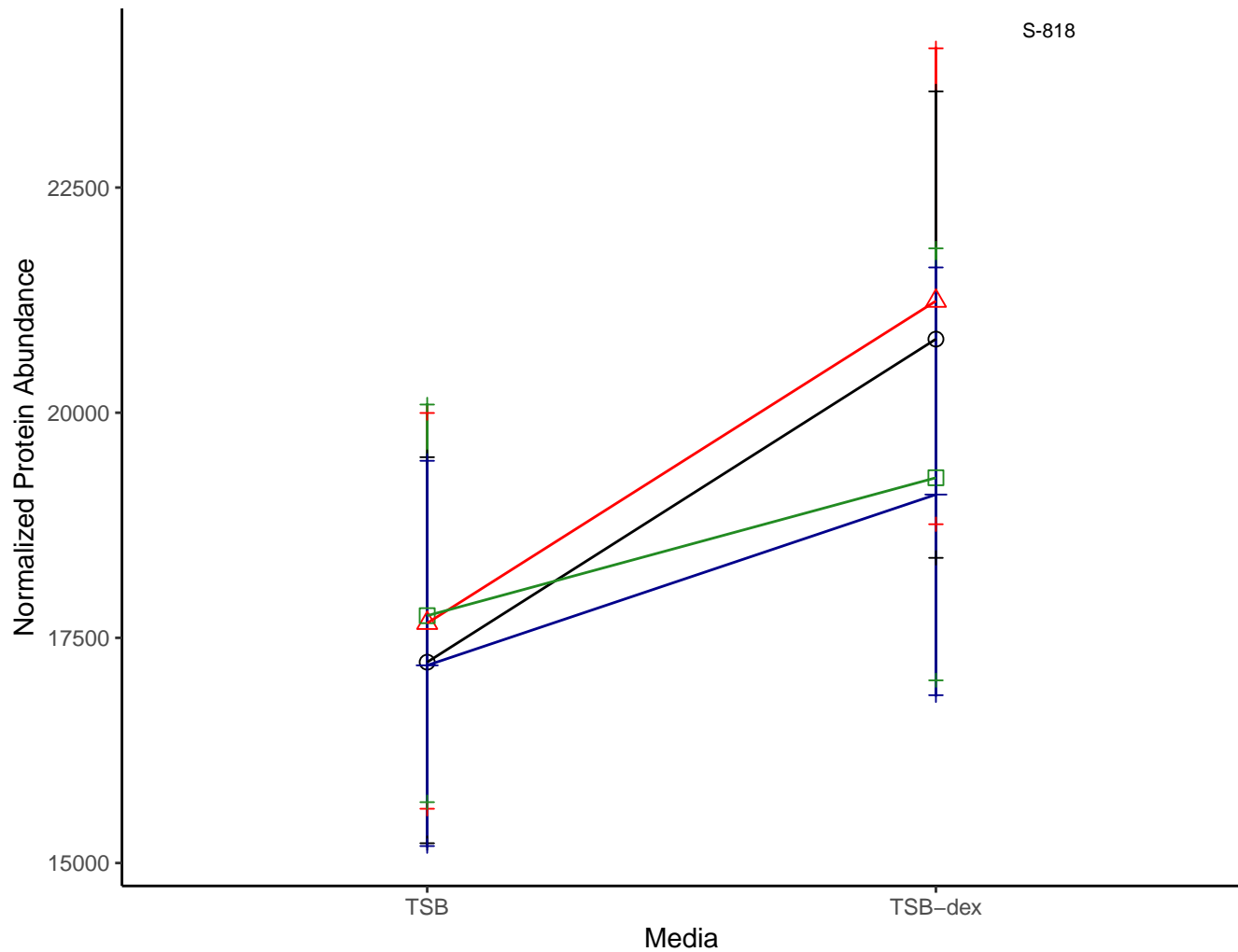
S-817



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# RL22\_STAAM

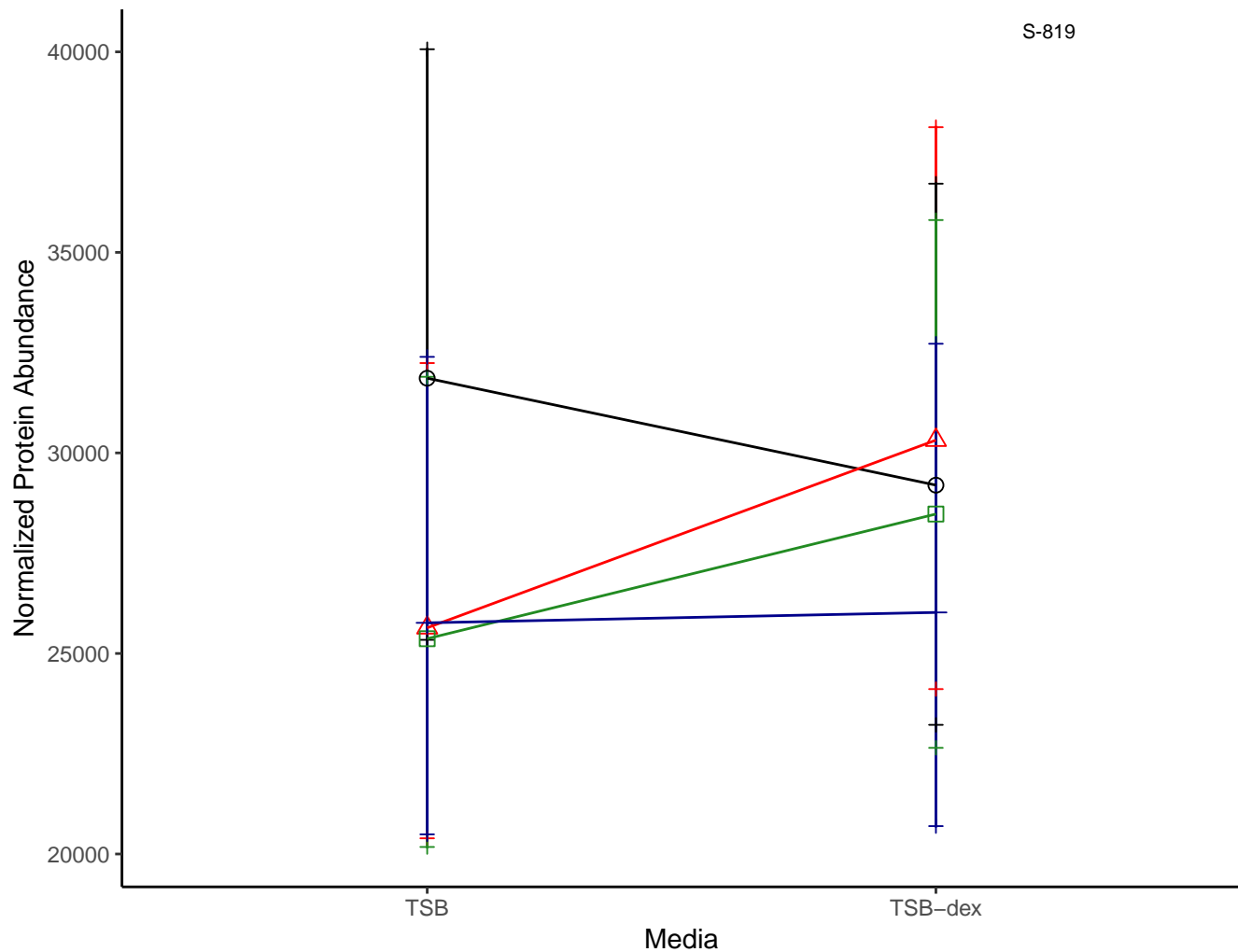
S-818



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL23\_STAAM

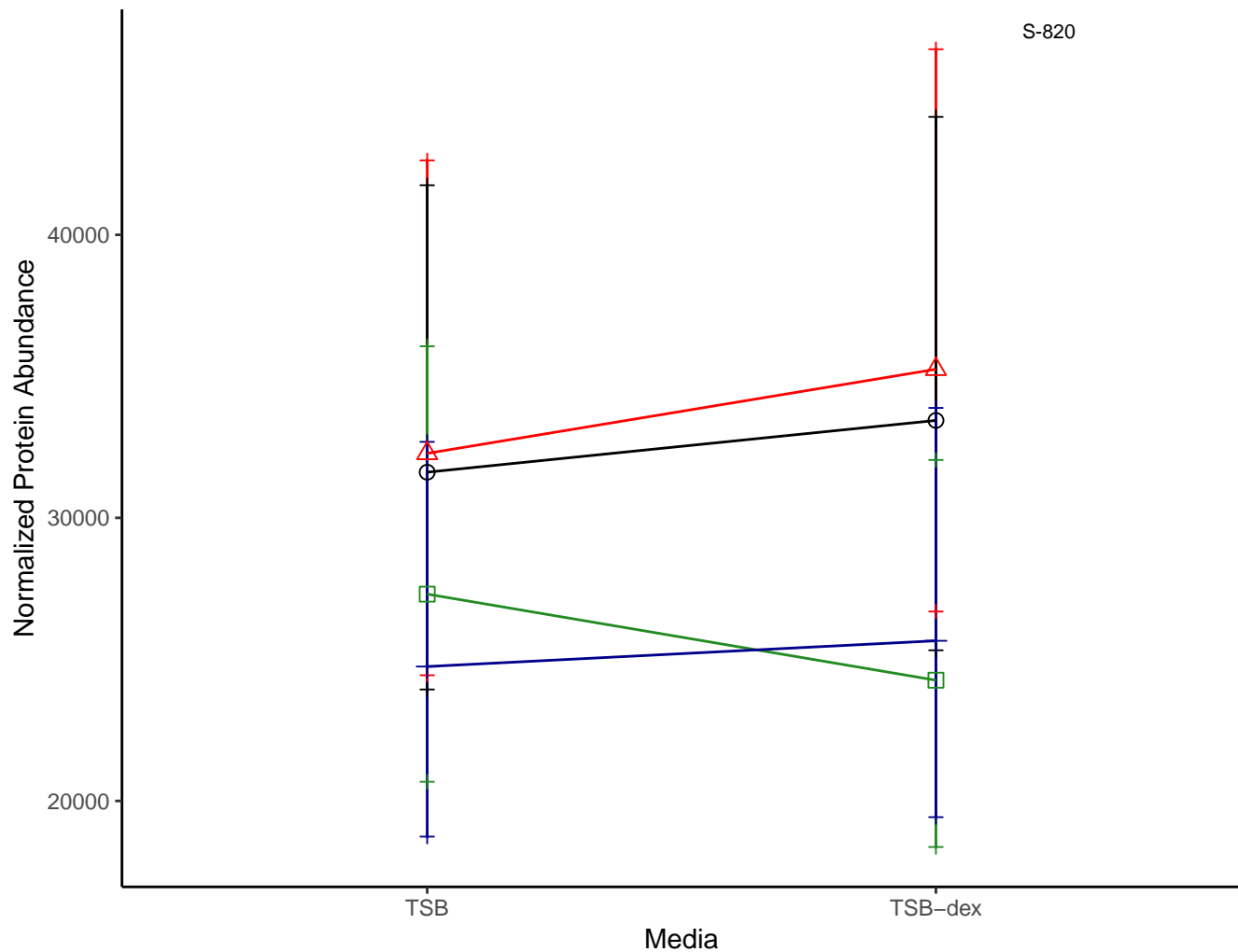
S-819



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL24\_STAAM

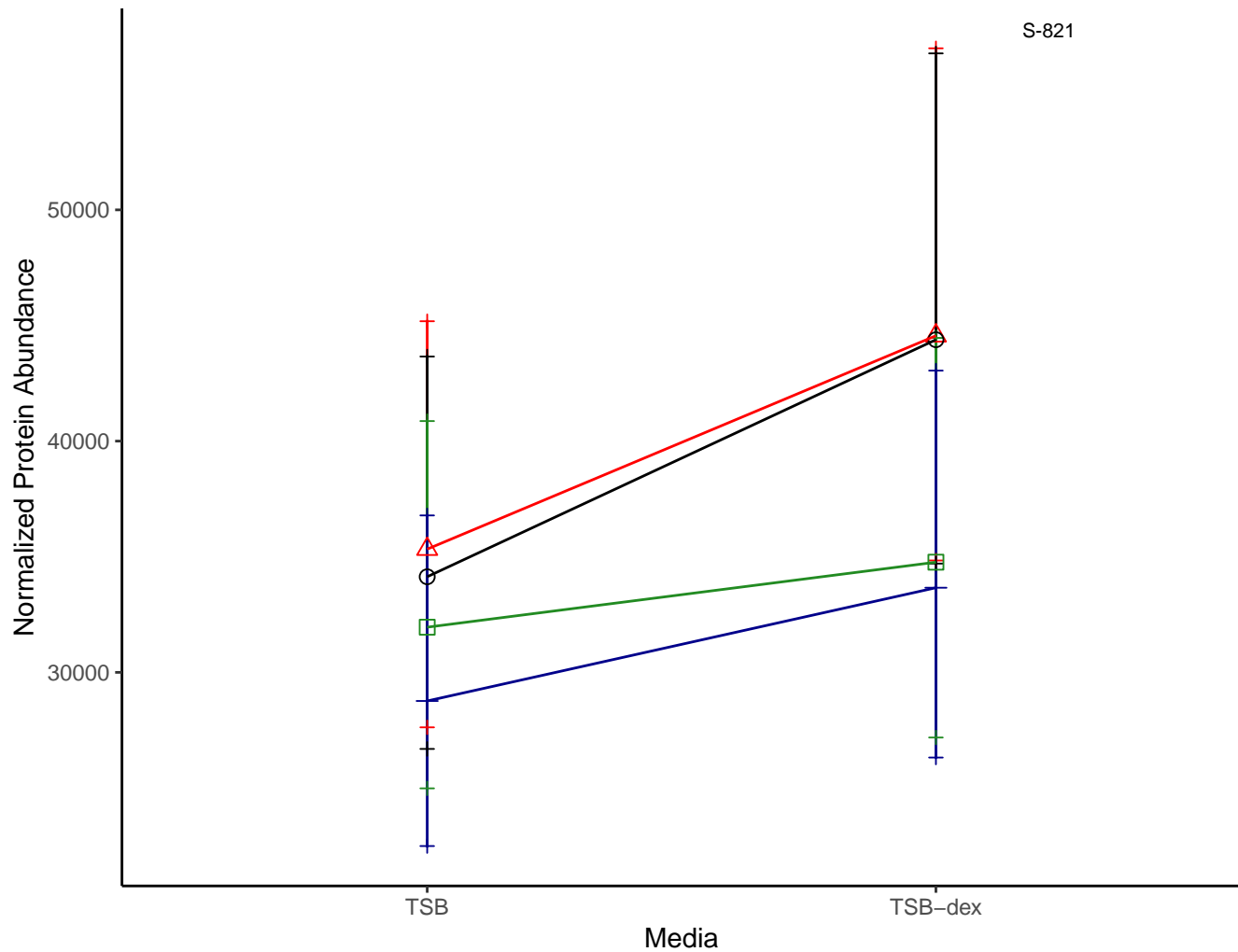
S-820



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL25\_STAAM

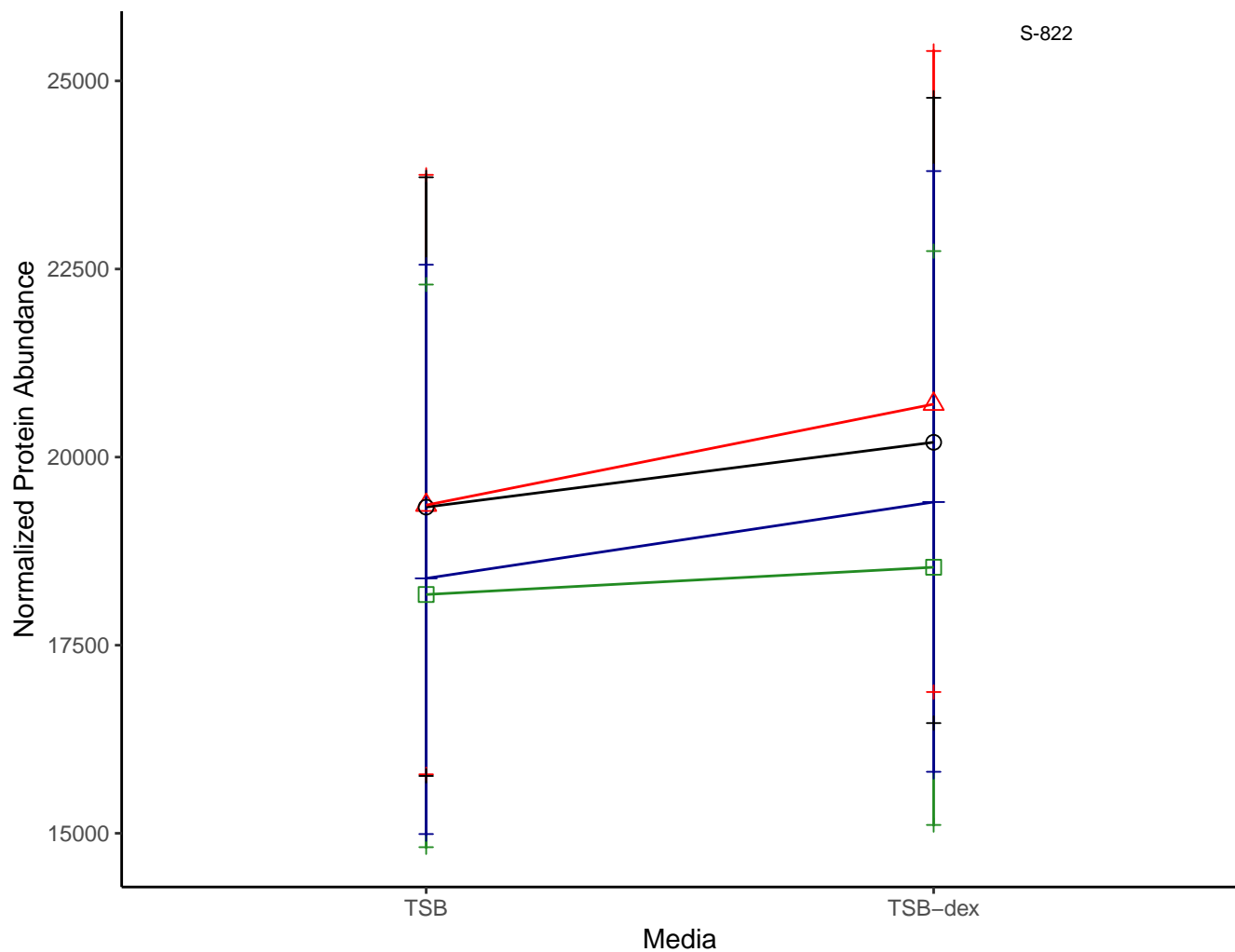
S-821



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL27\_STAAM

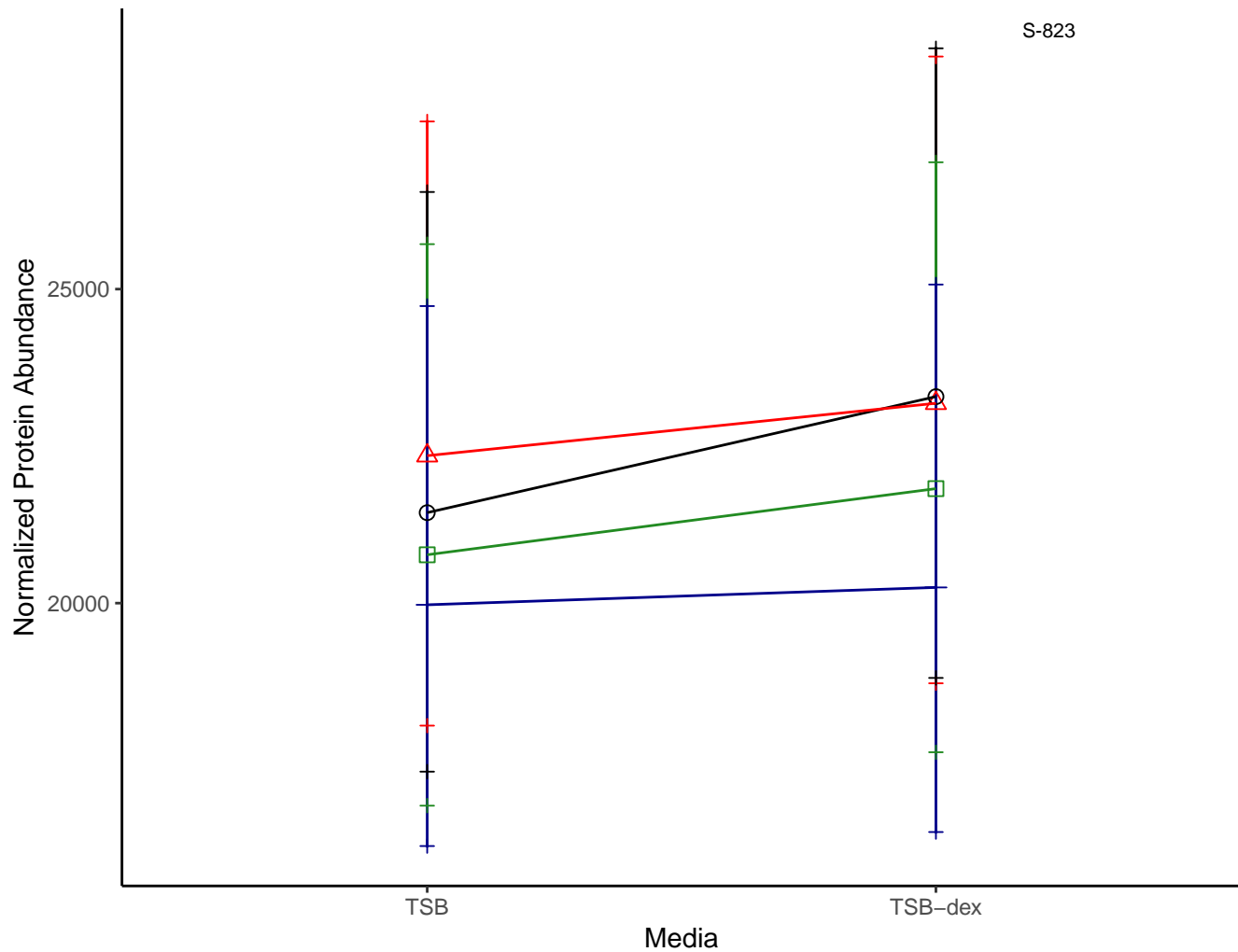
S-822



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL28\_STAAM

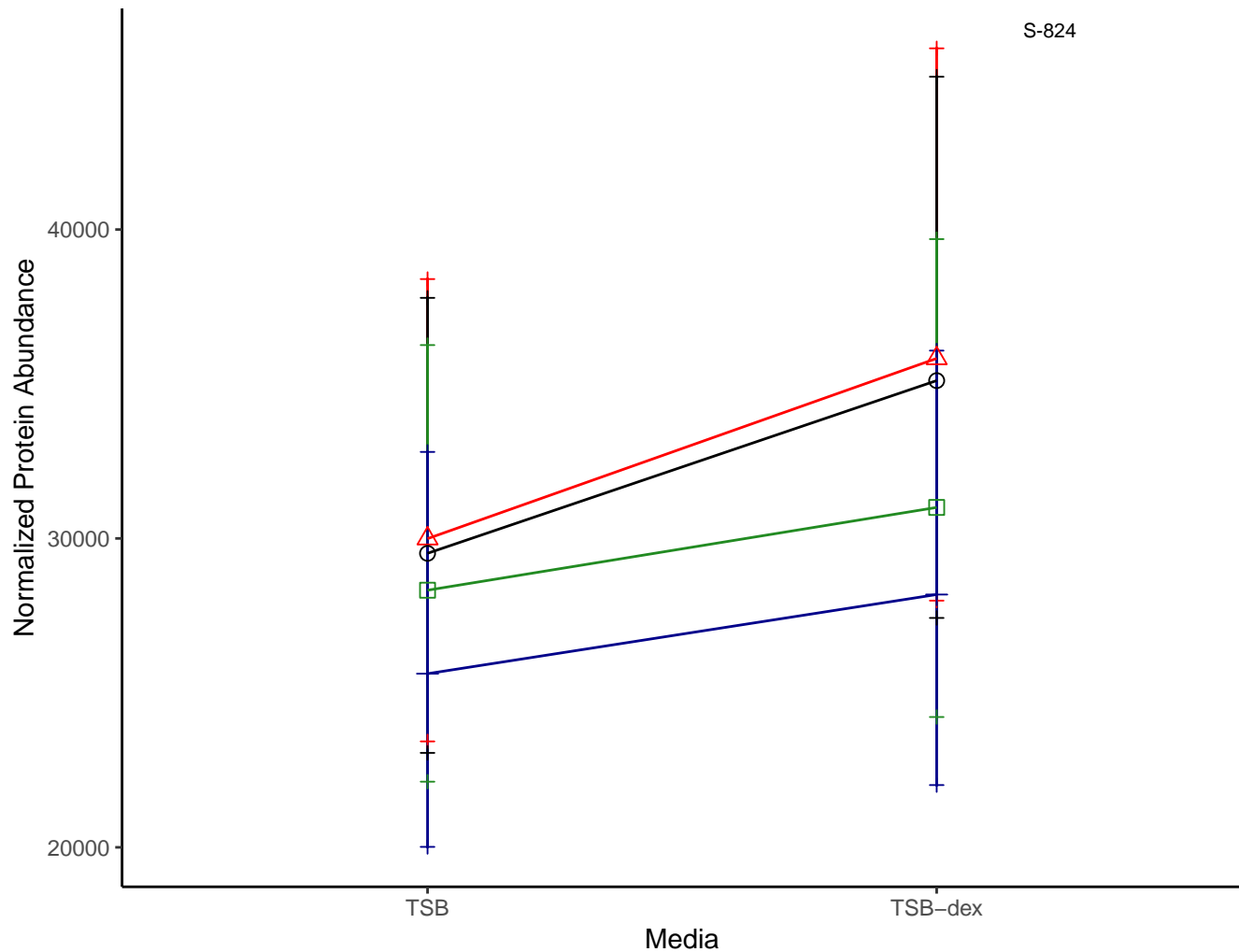
S-823



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL29\_STAAM

S-824

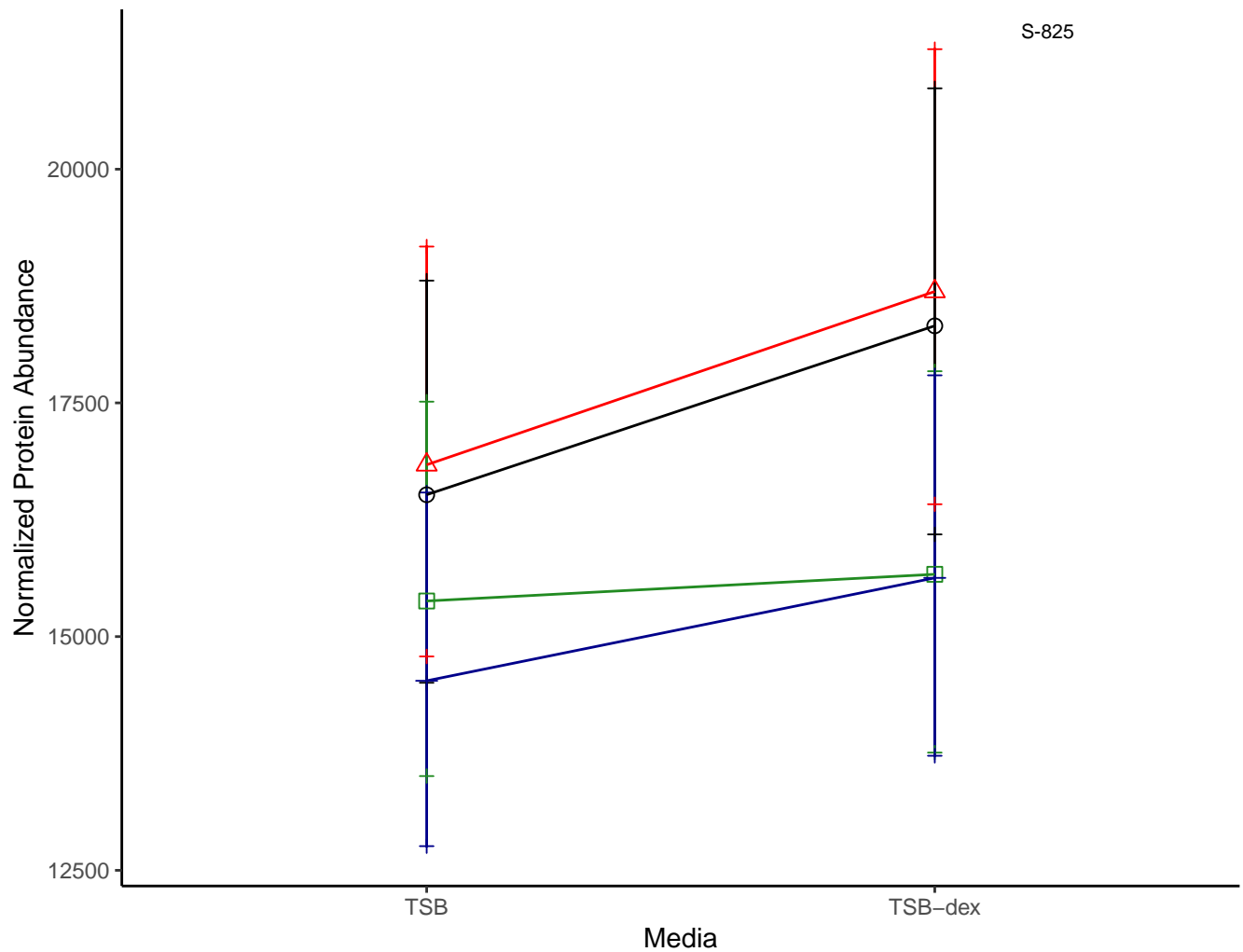


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# RL3\_STAAM

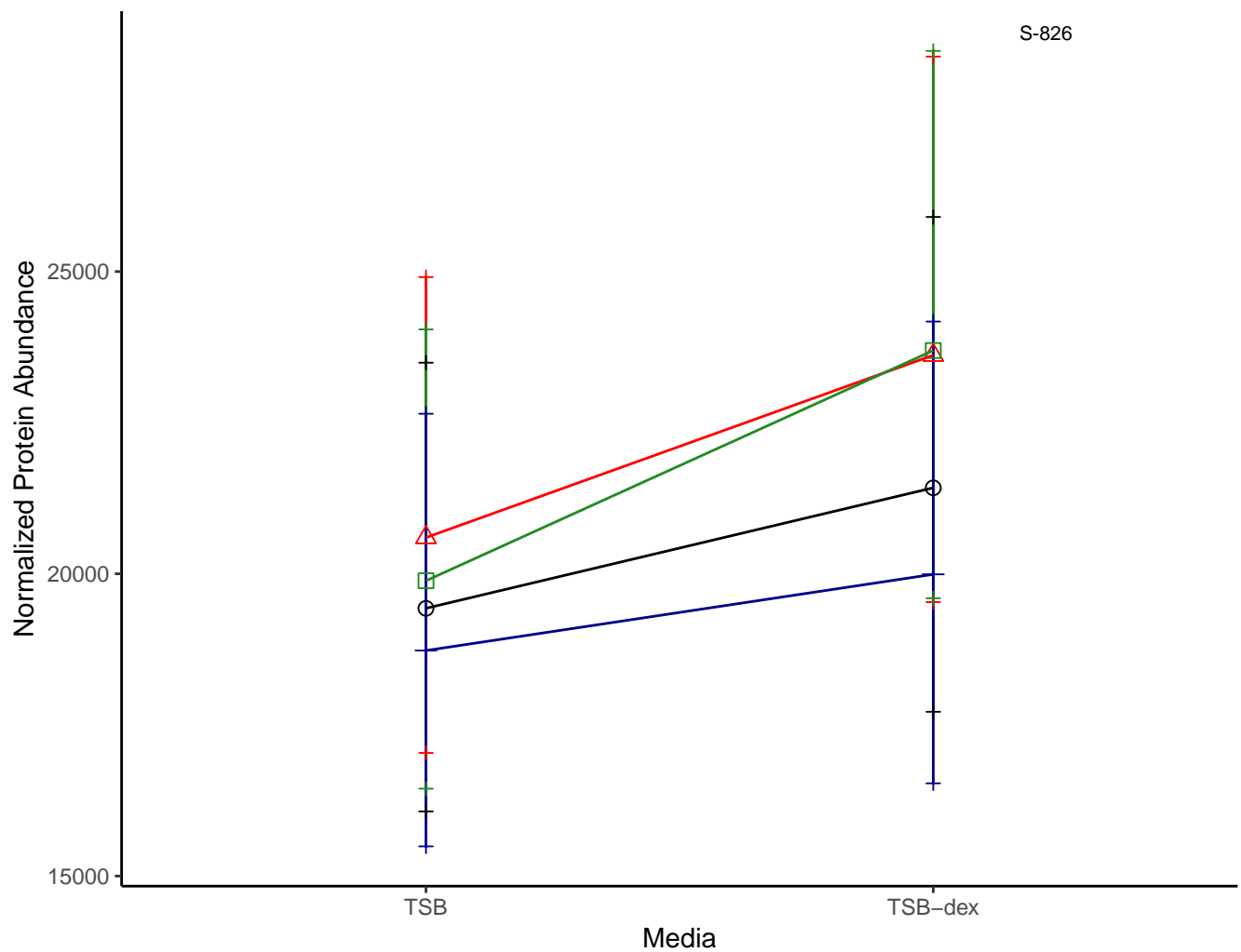
S-825



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL30\_STAAM

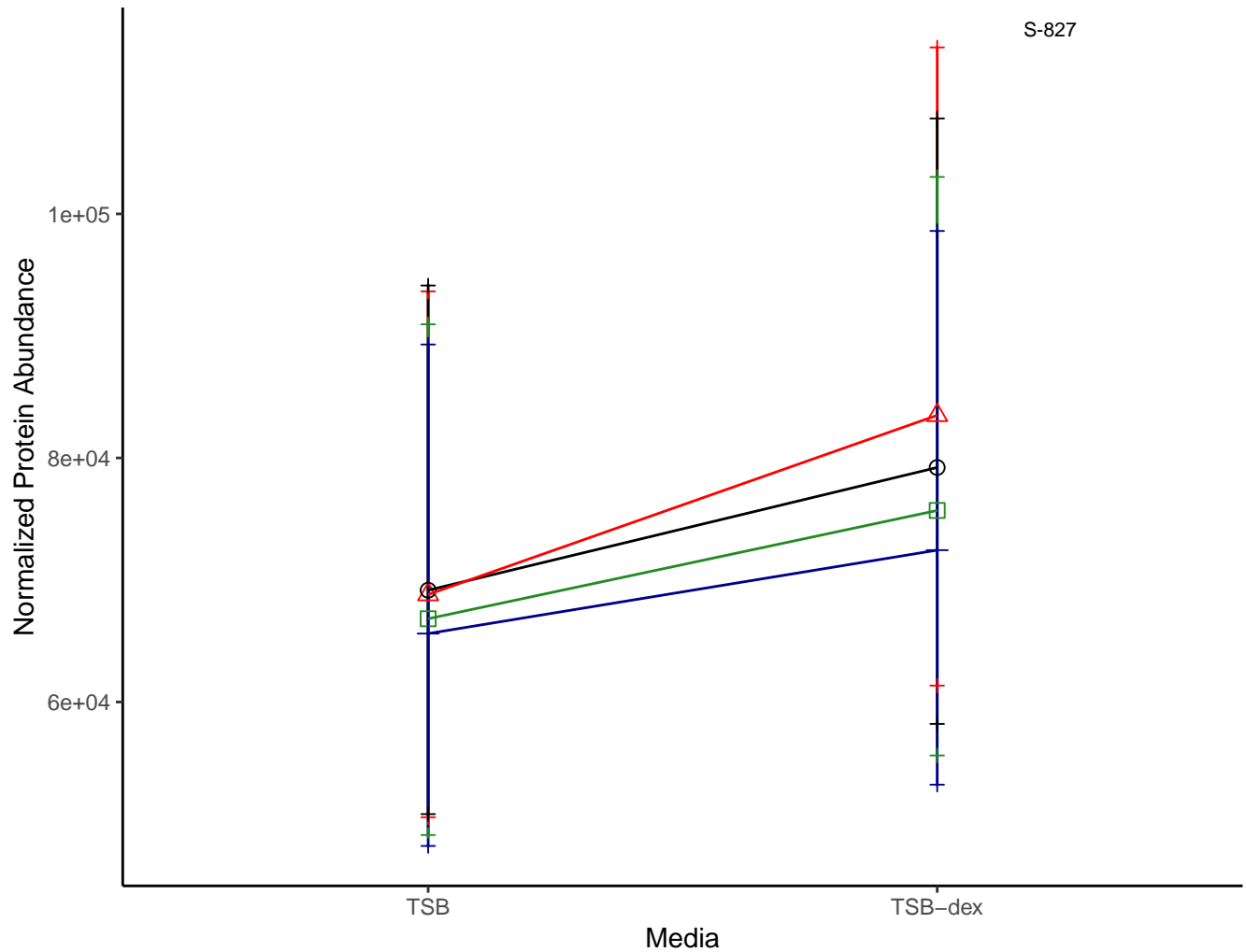
S-826



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL31B\_STAAM

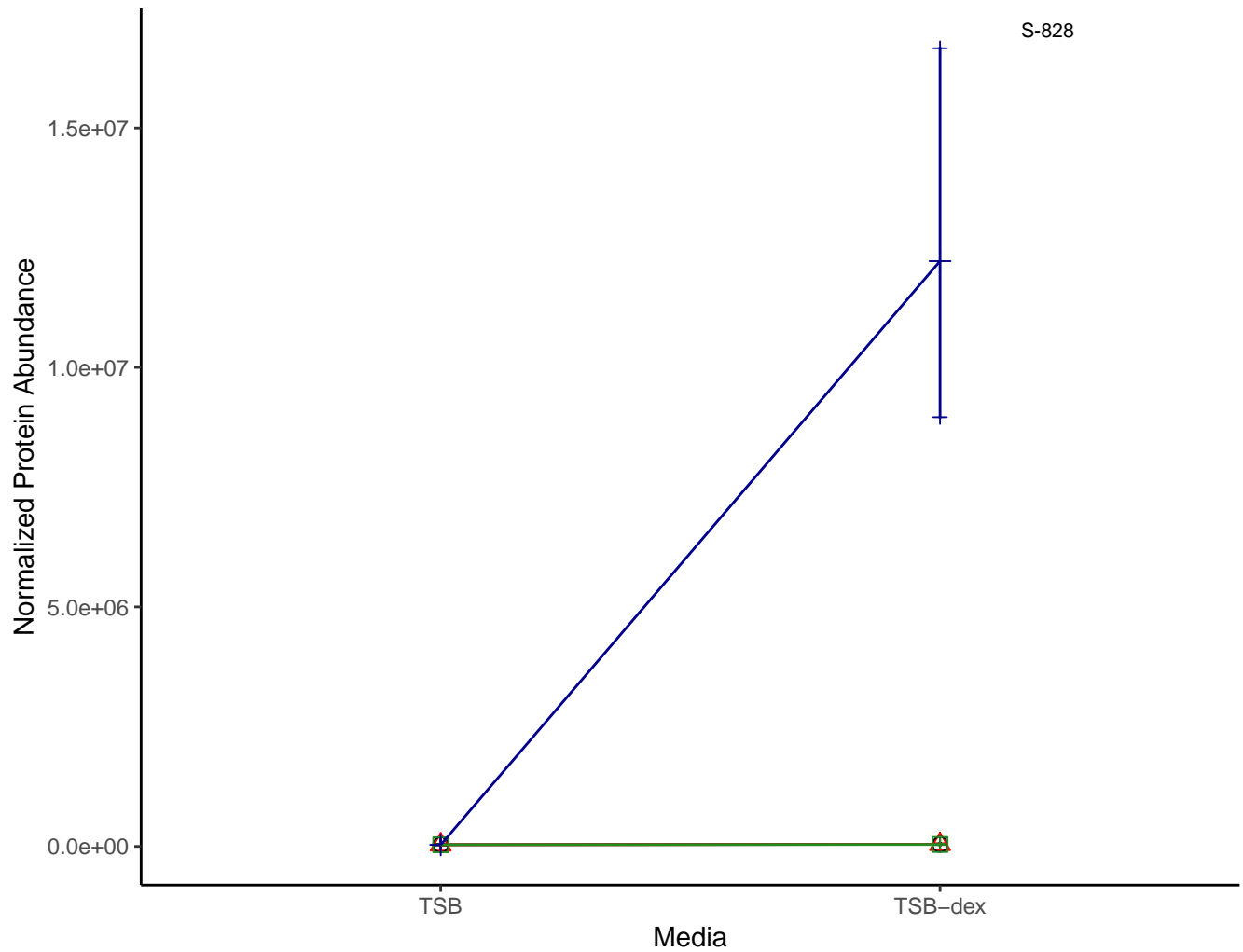
S-827



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL32\_STAAM

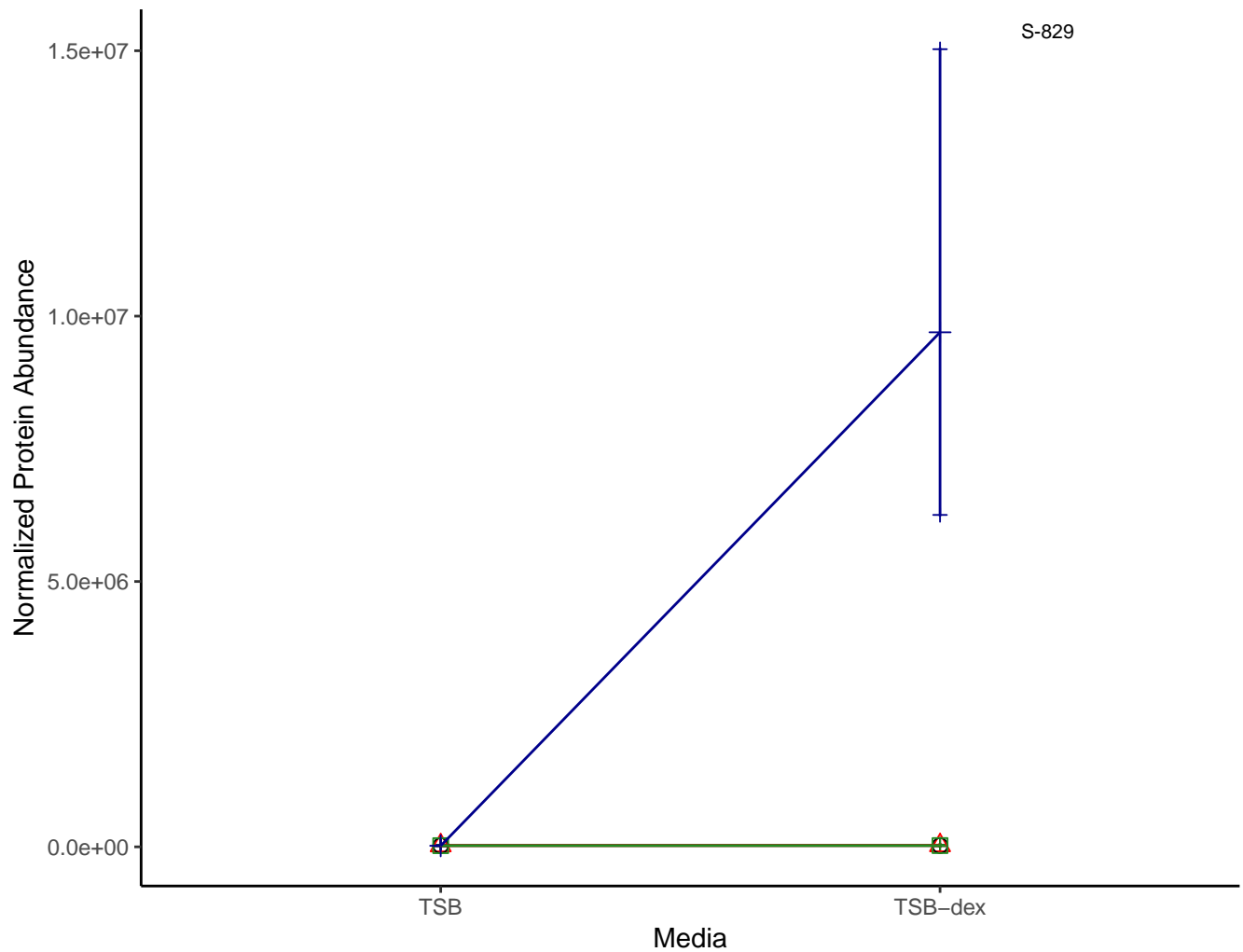
S-828



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL331\_STAAM

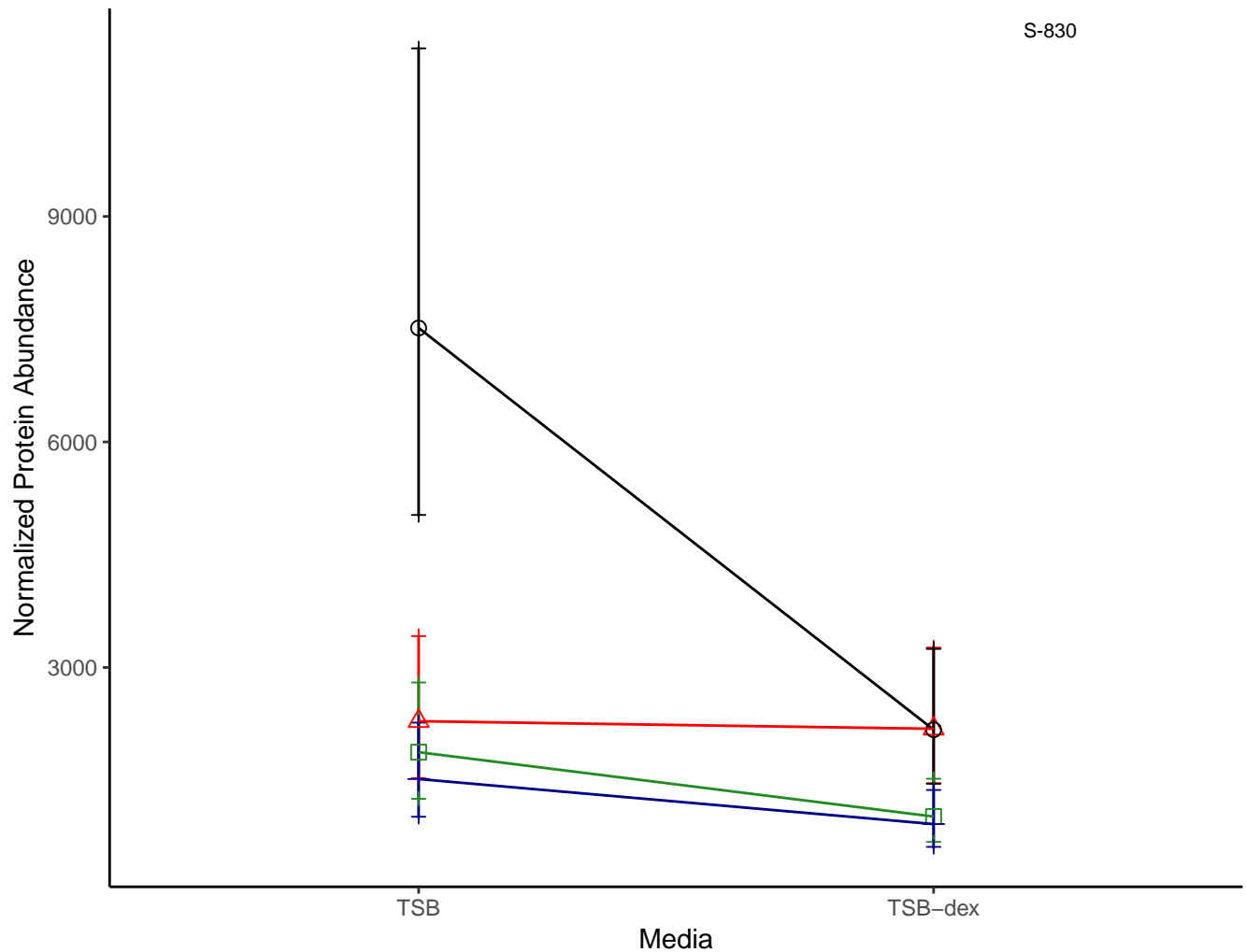
S-829



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL332\_STAAM

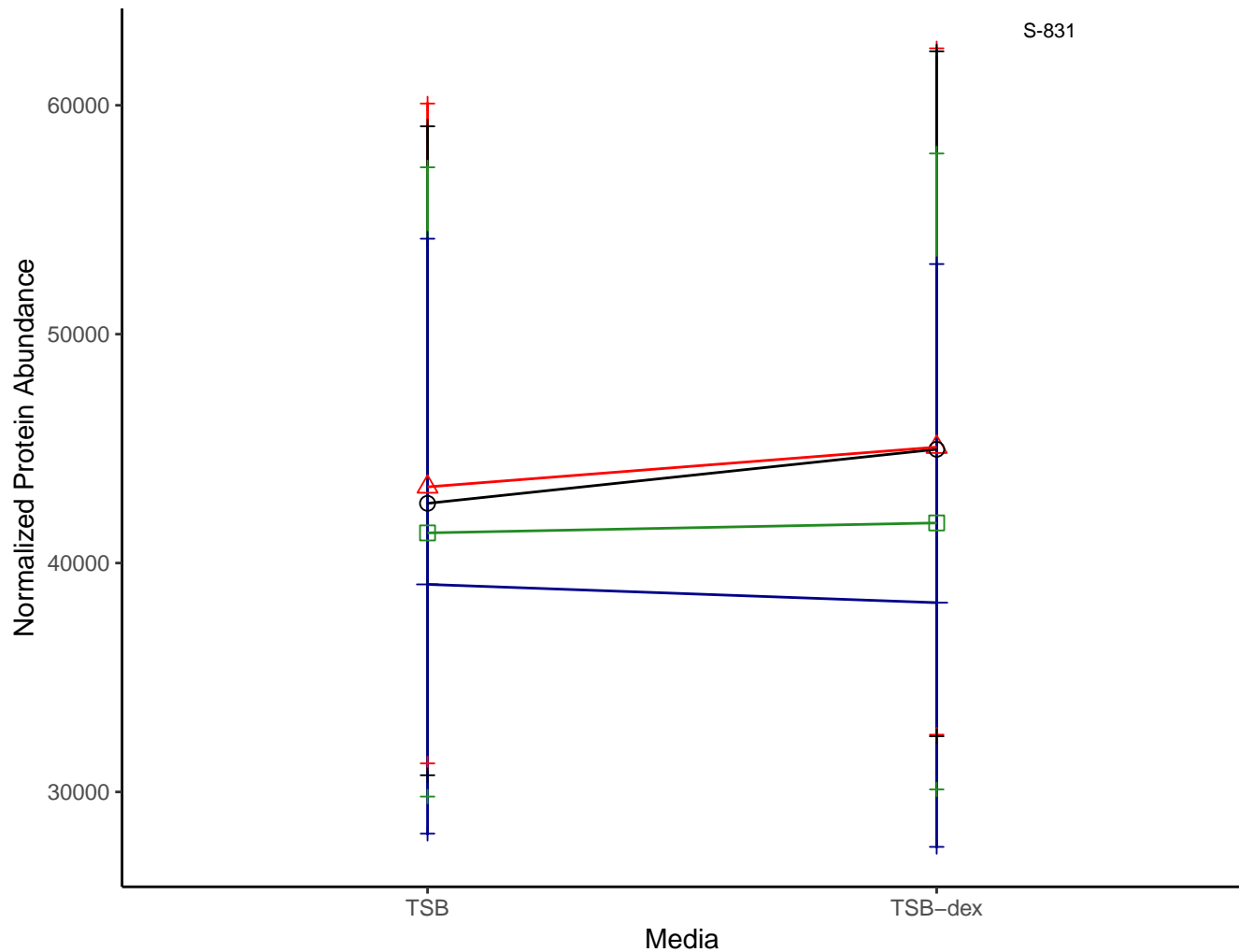
S-830



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL35\_STAAM

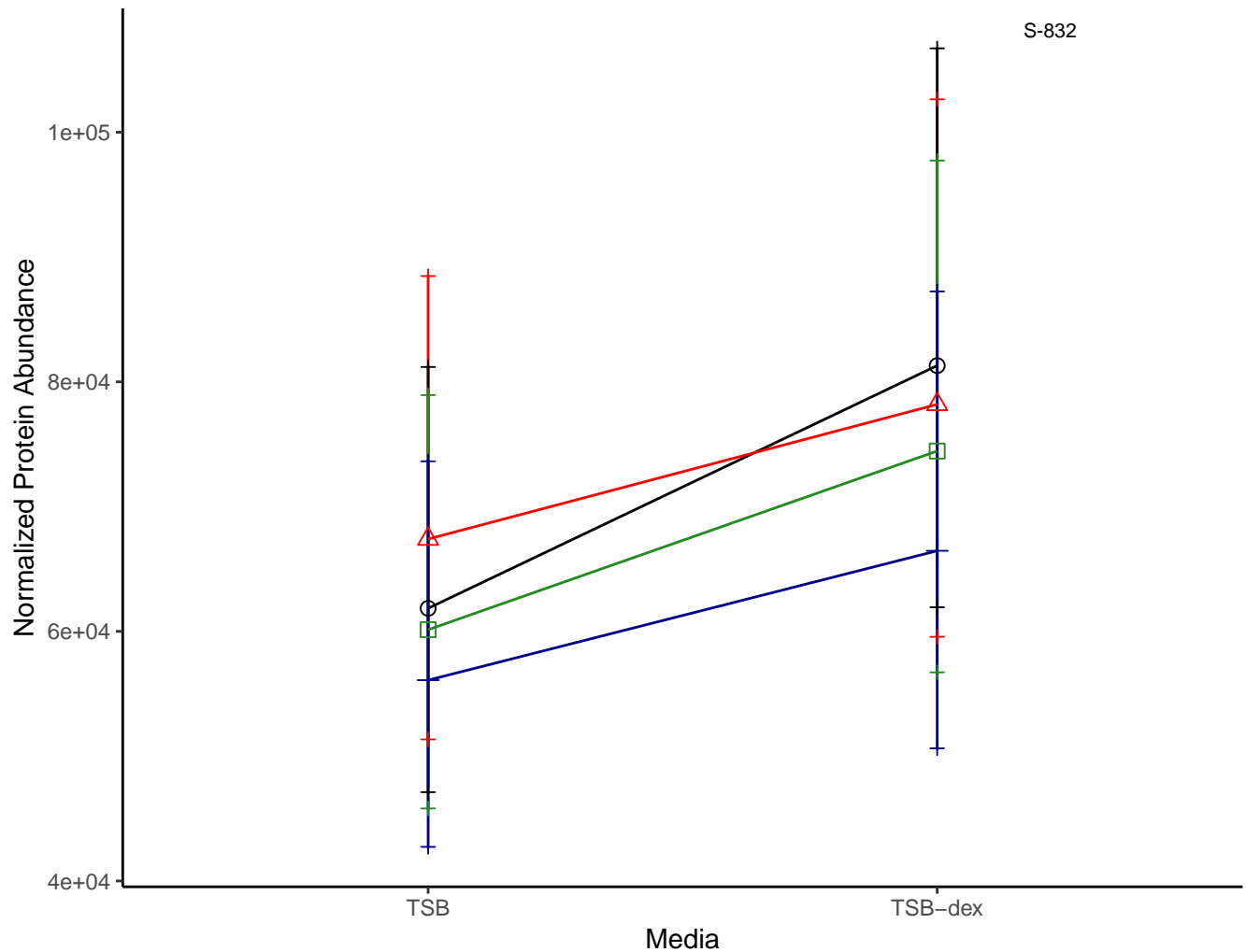
S-831



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL36\_STAAM

S-832

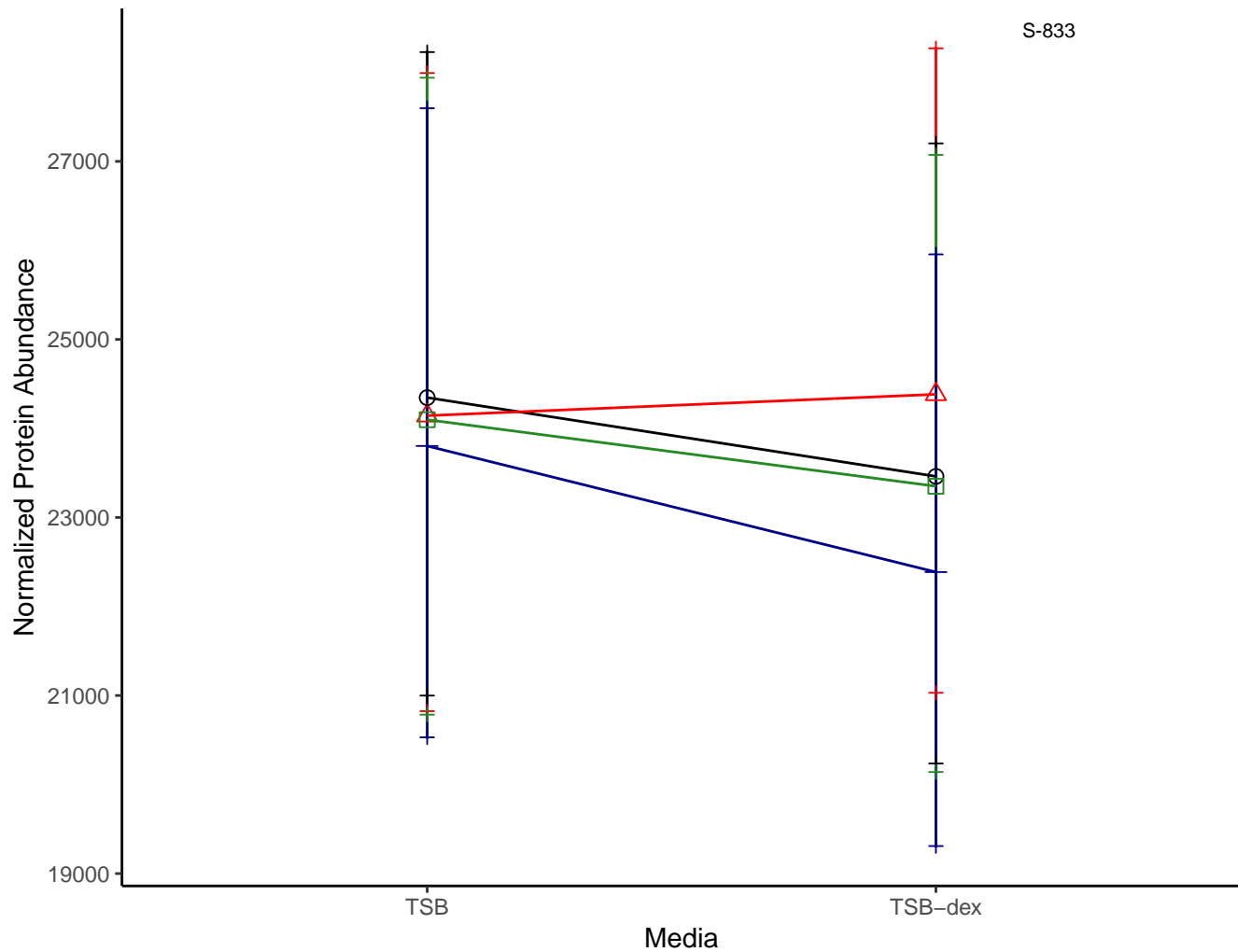


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# RL4\_STAAM

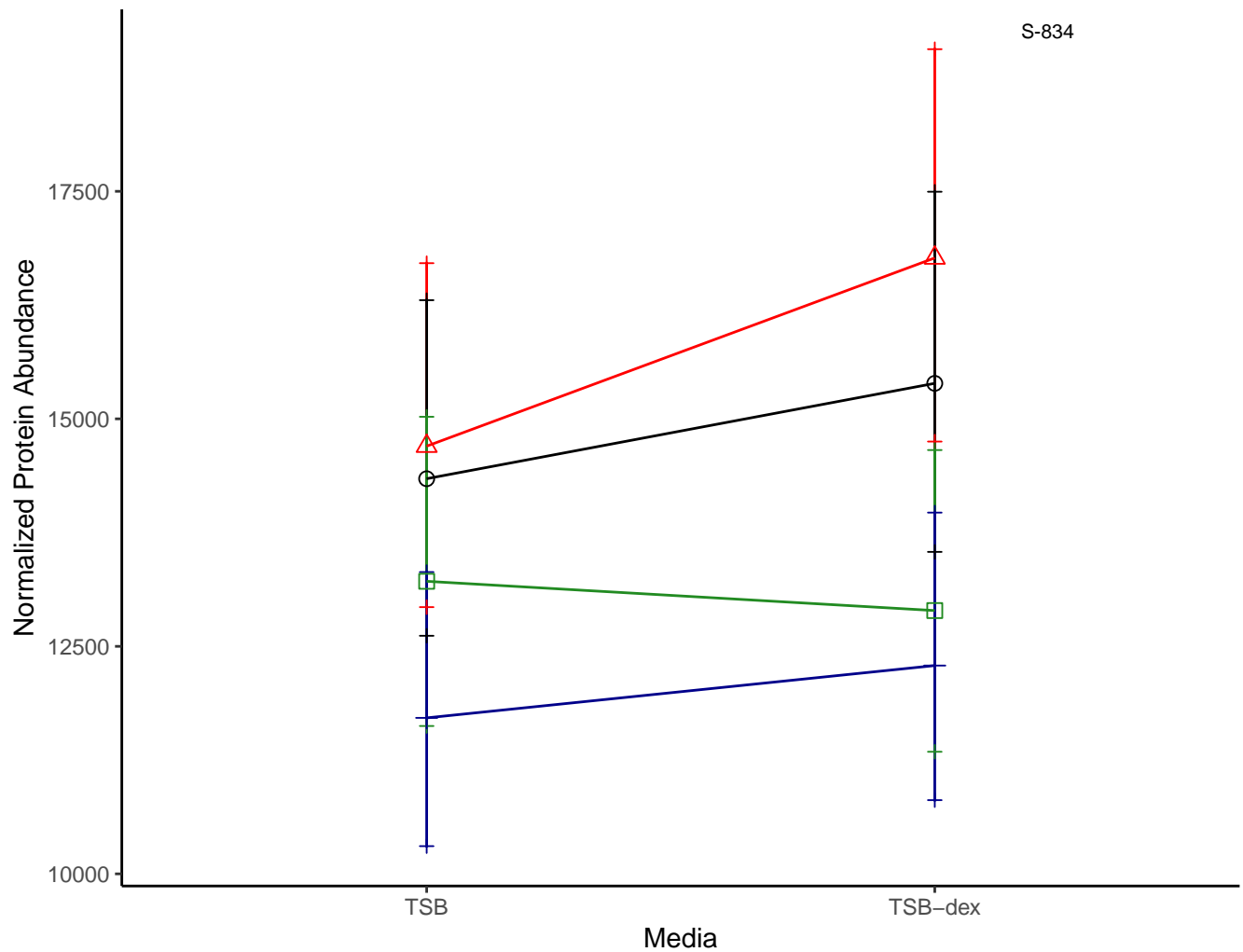
S-833



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL5\_STAAM

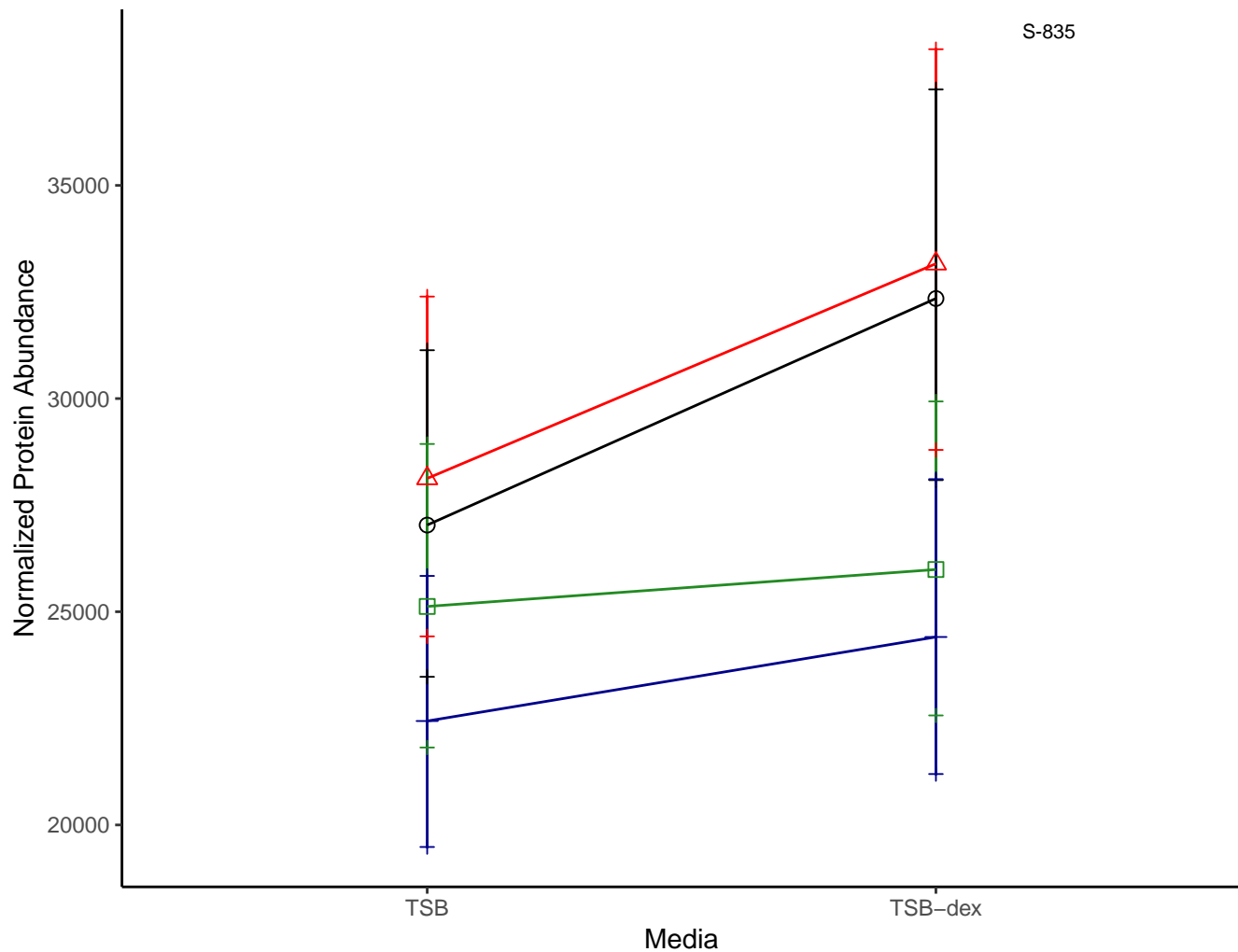
S-834



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL6\_STAAM

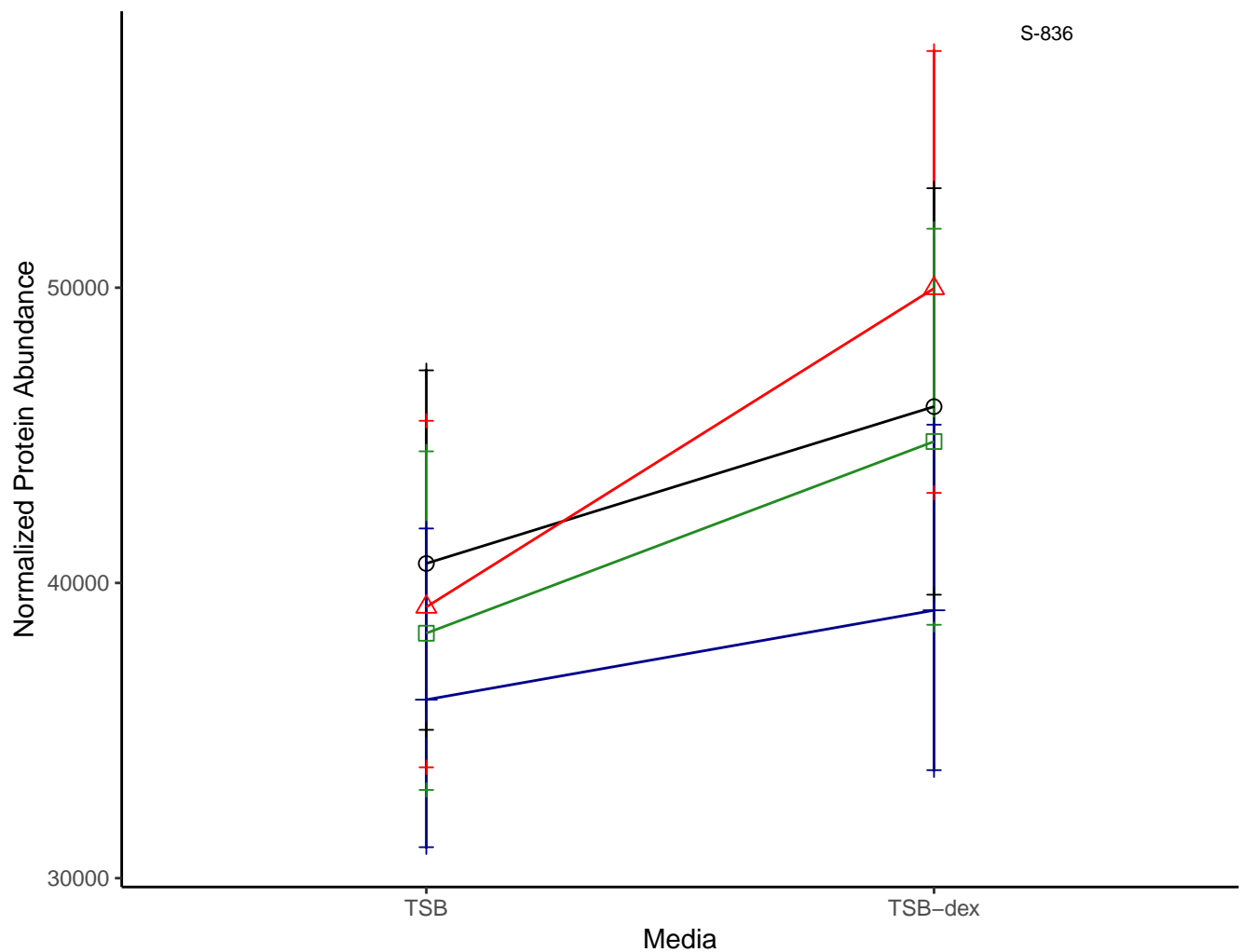
S-835



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL7\_STAAM

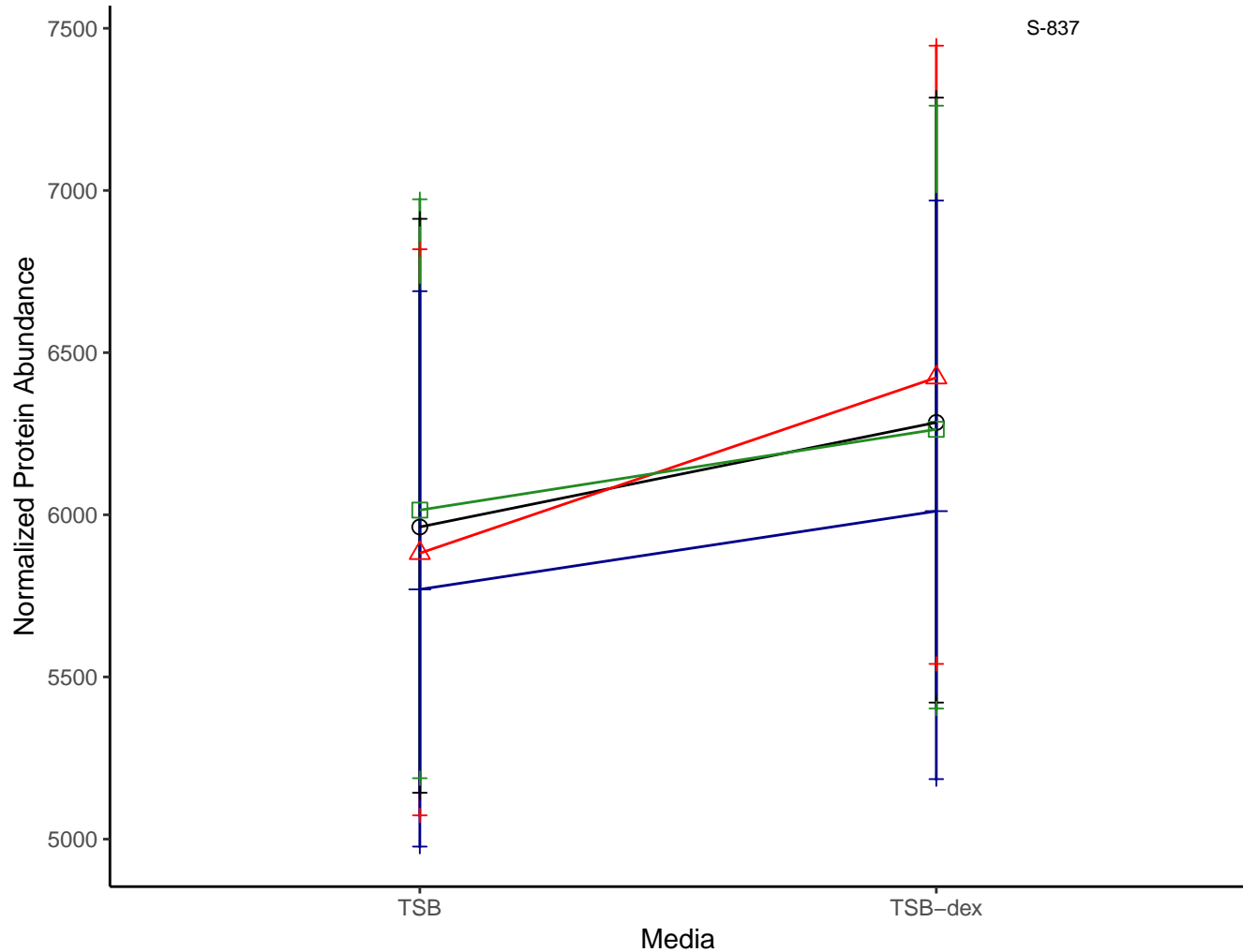
S-836



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL9\_STAAM

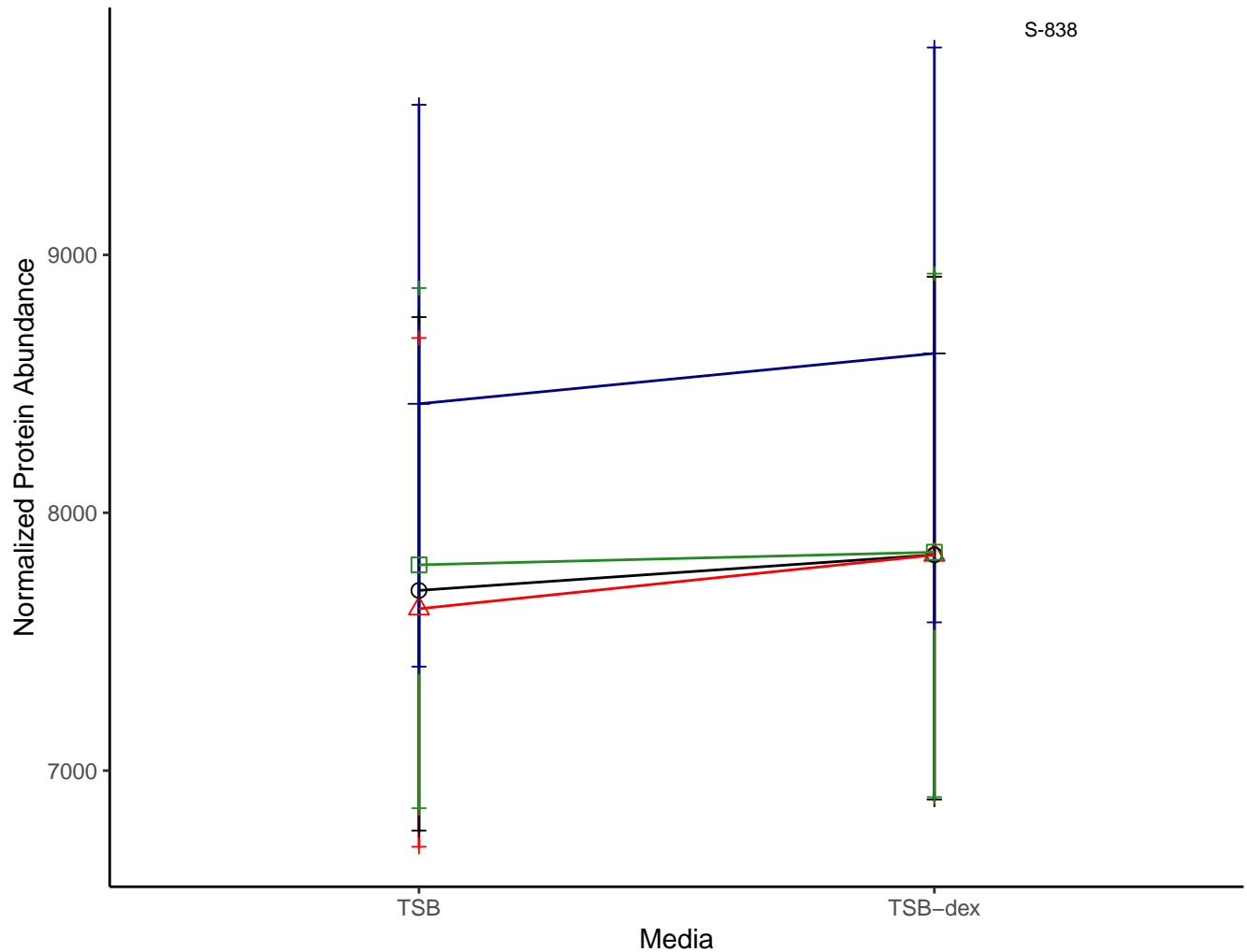
S-837



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RNJ1\_STAAM

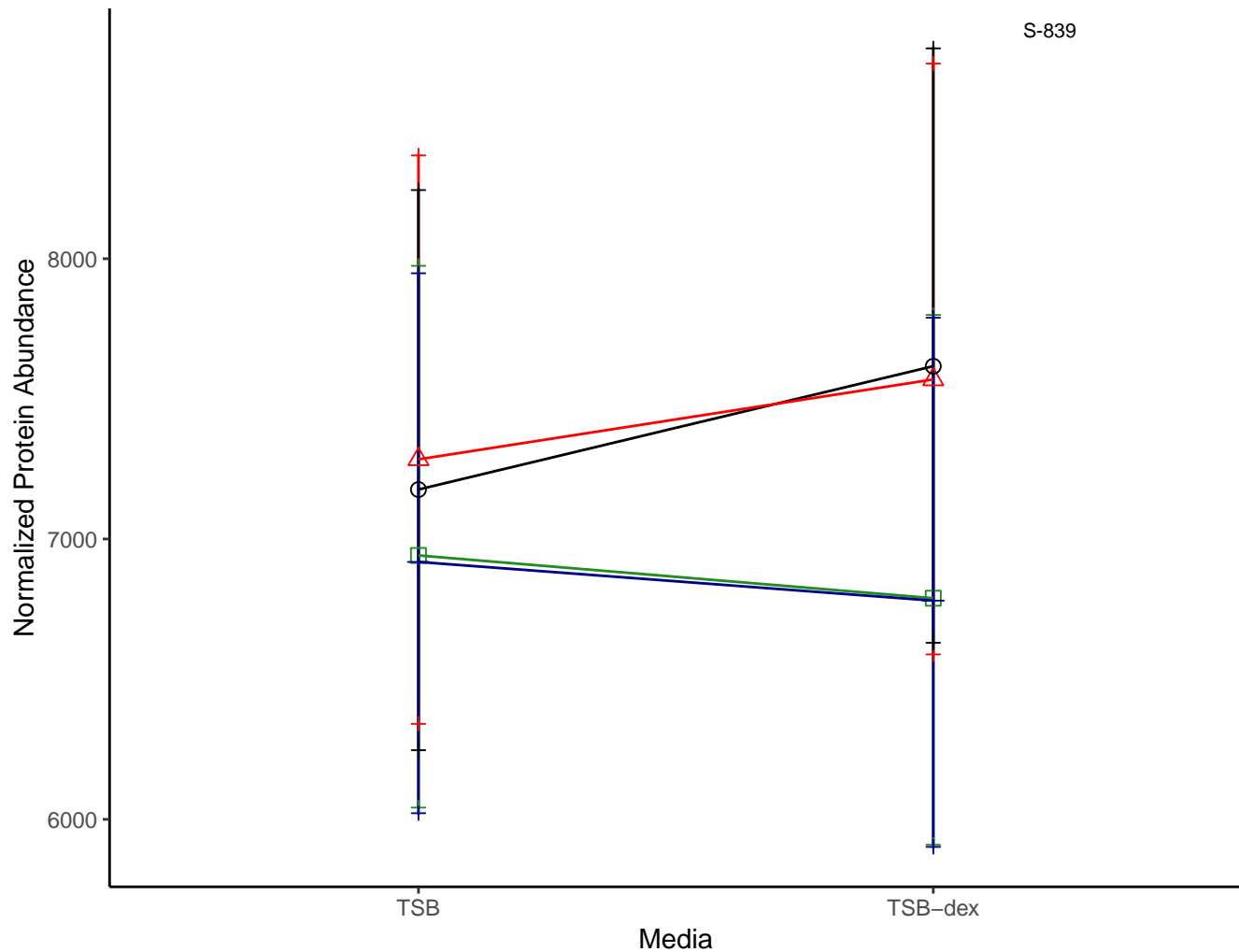
S-838



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RNJ2\_STAAM

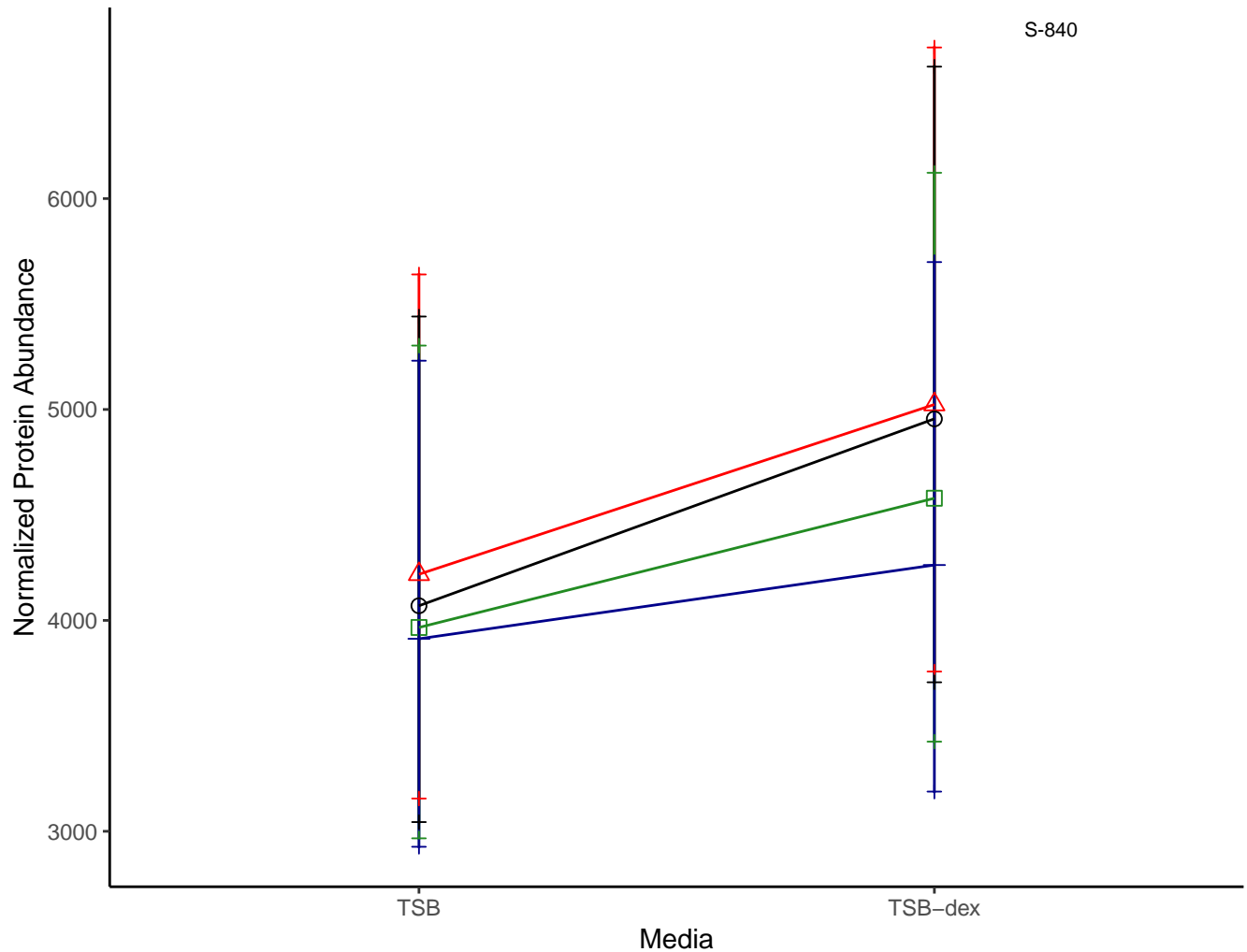
S-839



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RNY\_STAAM

S-840

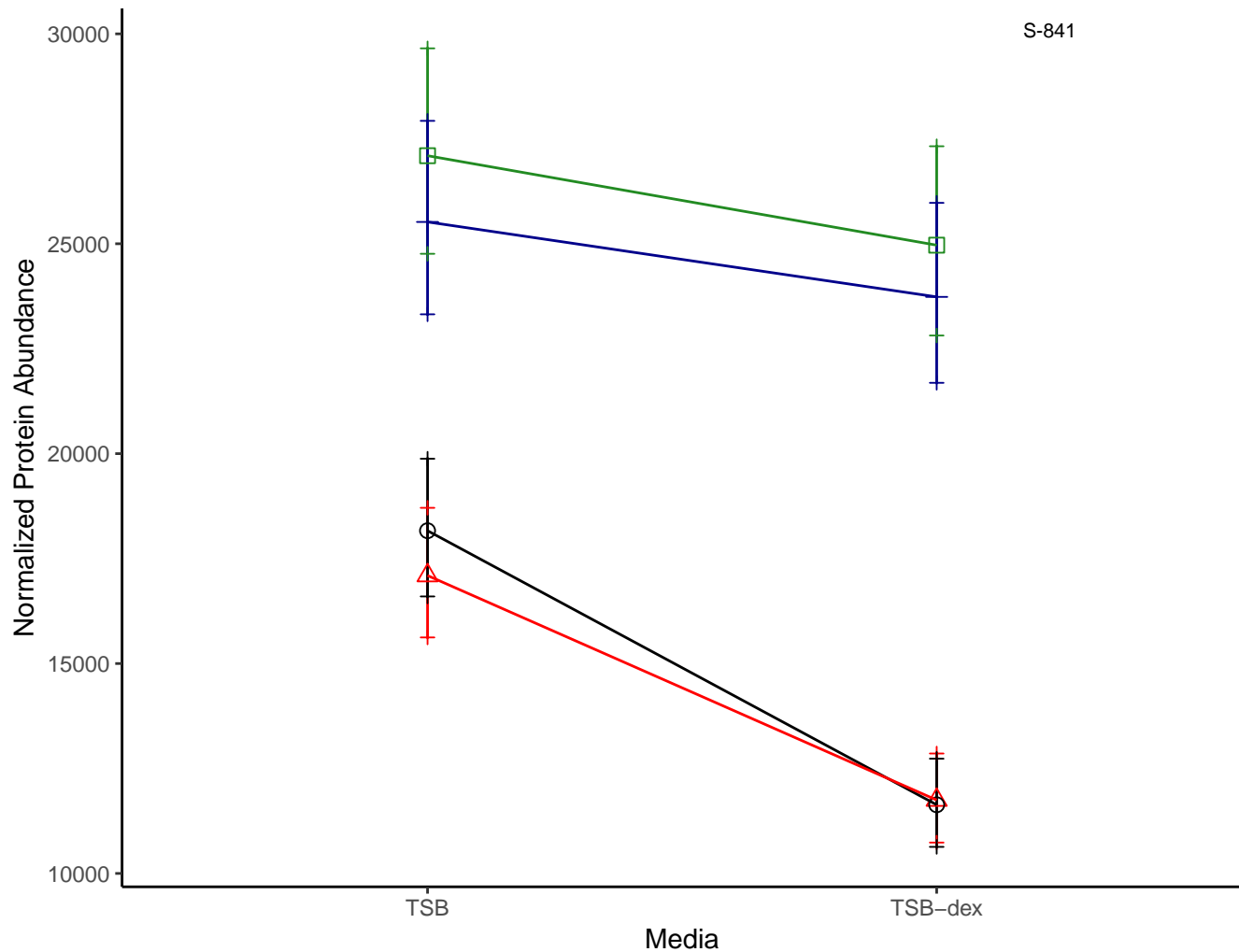


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



## ROCA\_STAAM

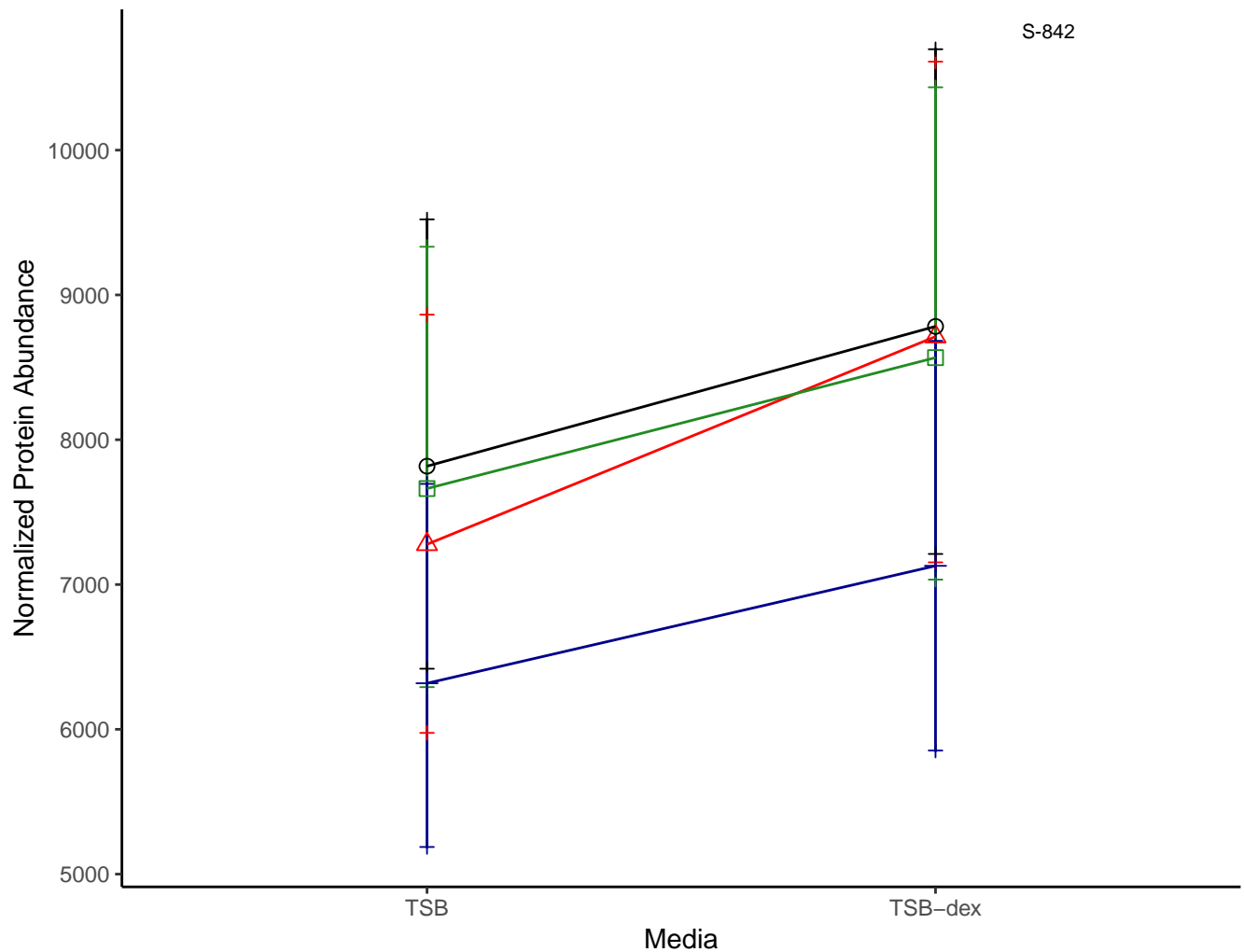
S-841



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ROT\_STAAM

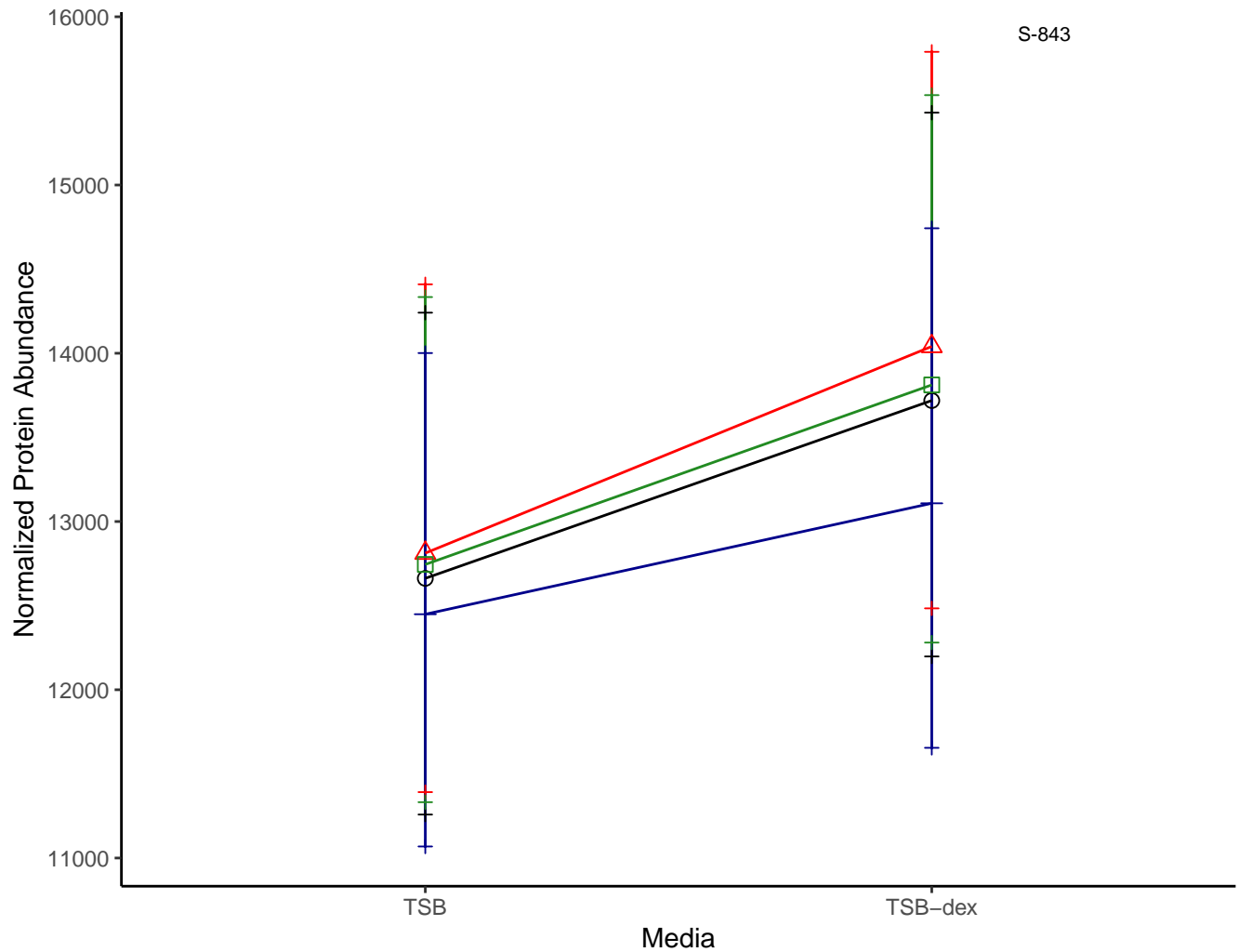
S-842



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOA\_STAAM

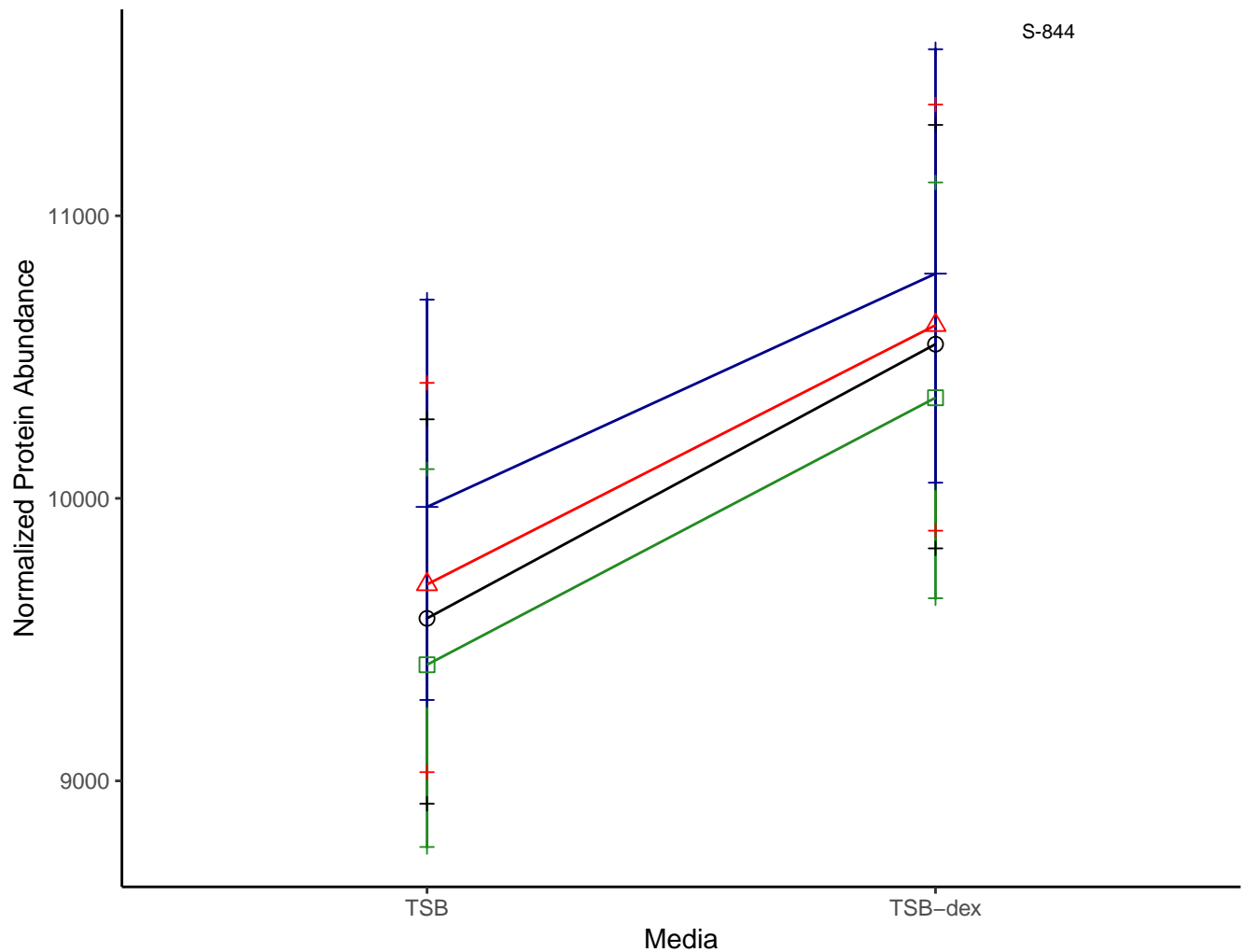
S-843



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOB\_STAAM

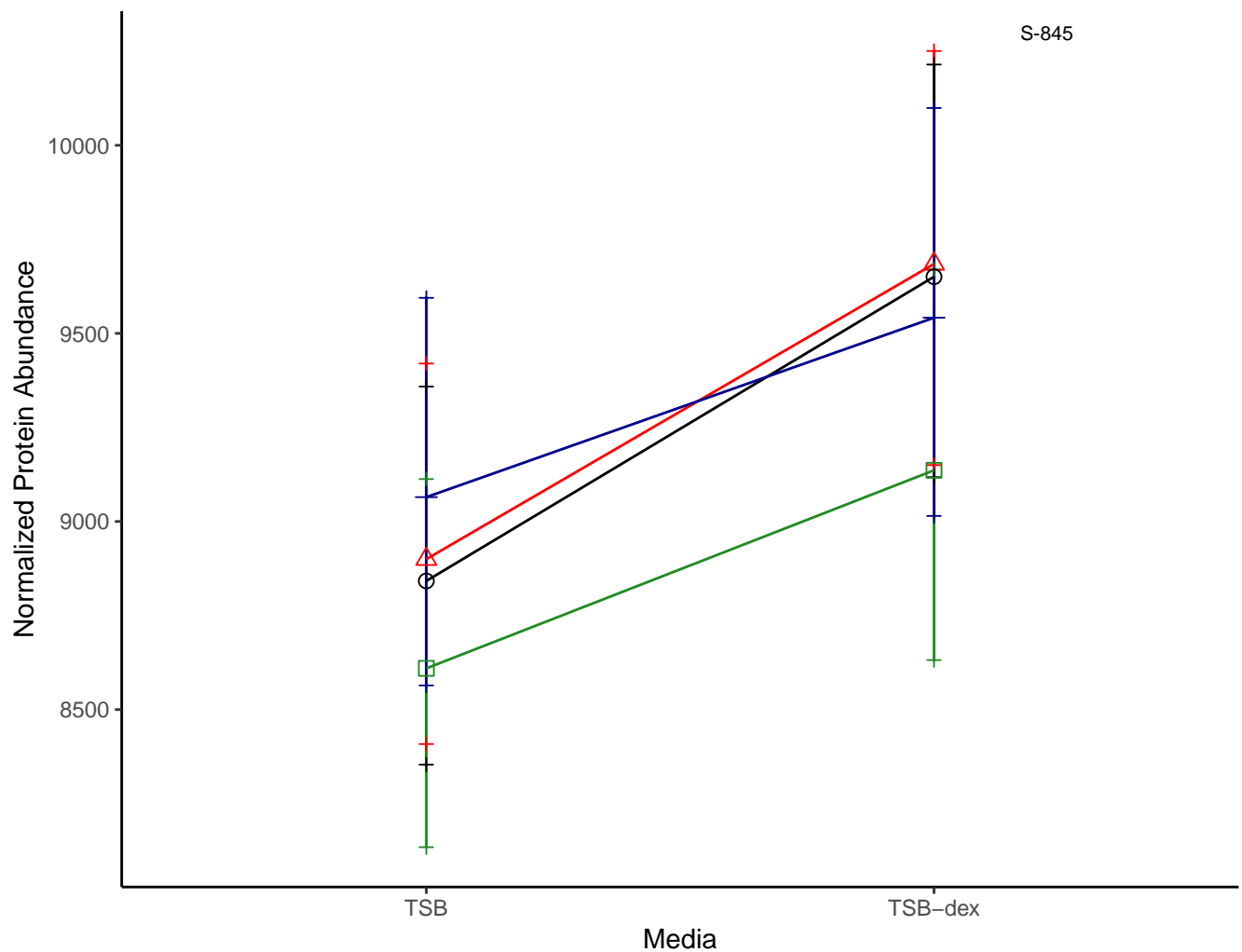
S-844



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOC\_STAAM

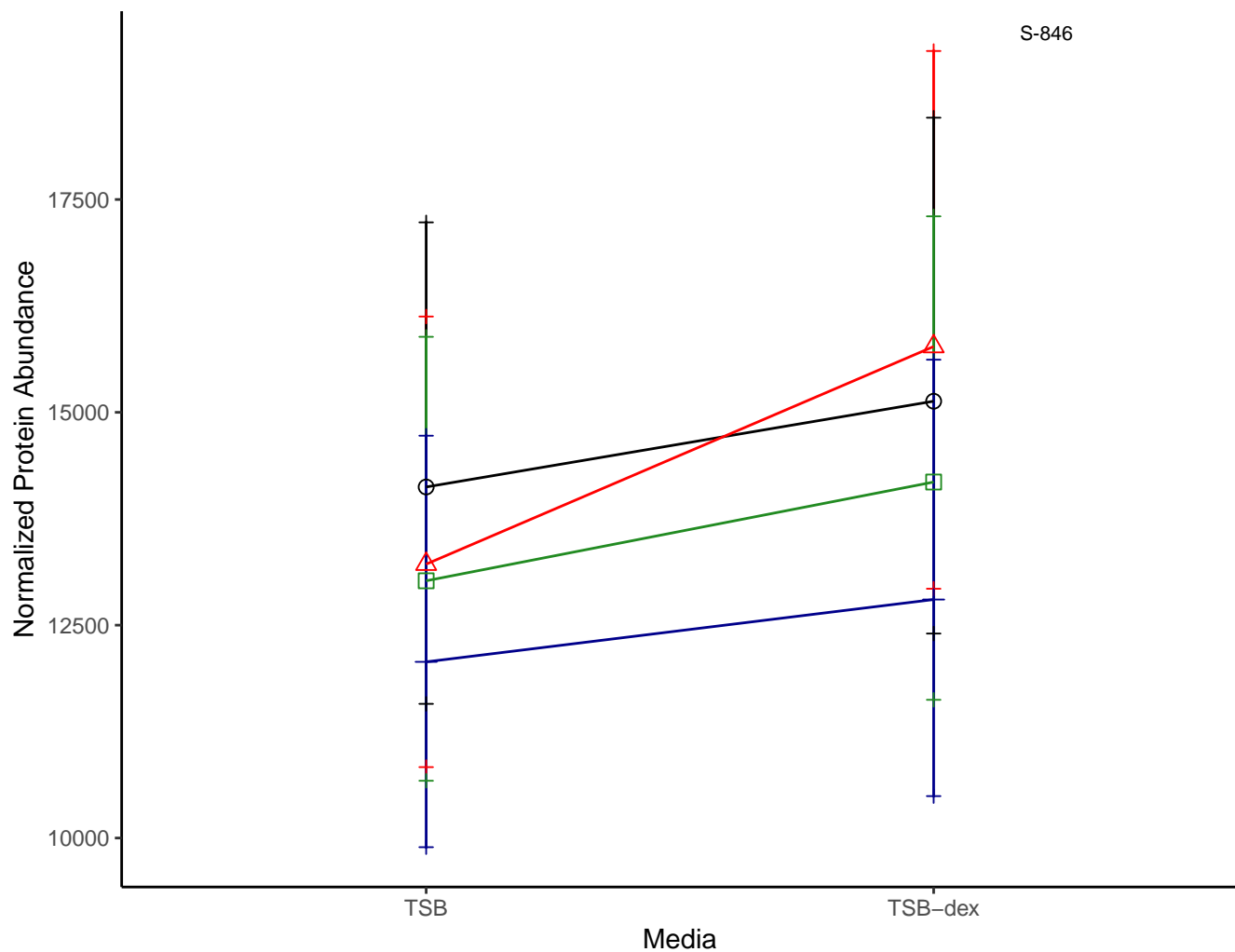
S-845



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOE\_STAAM

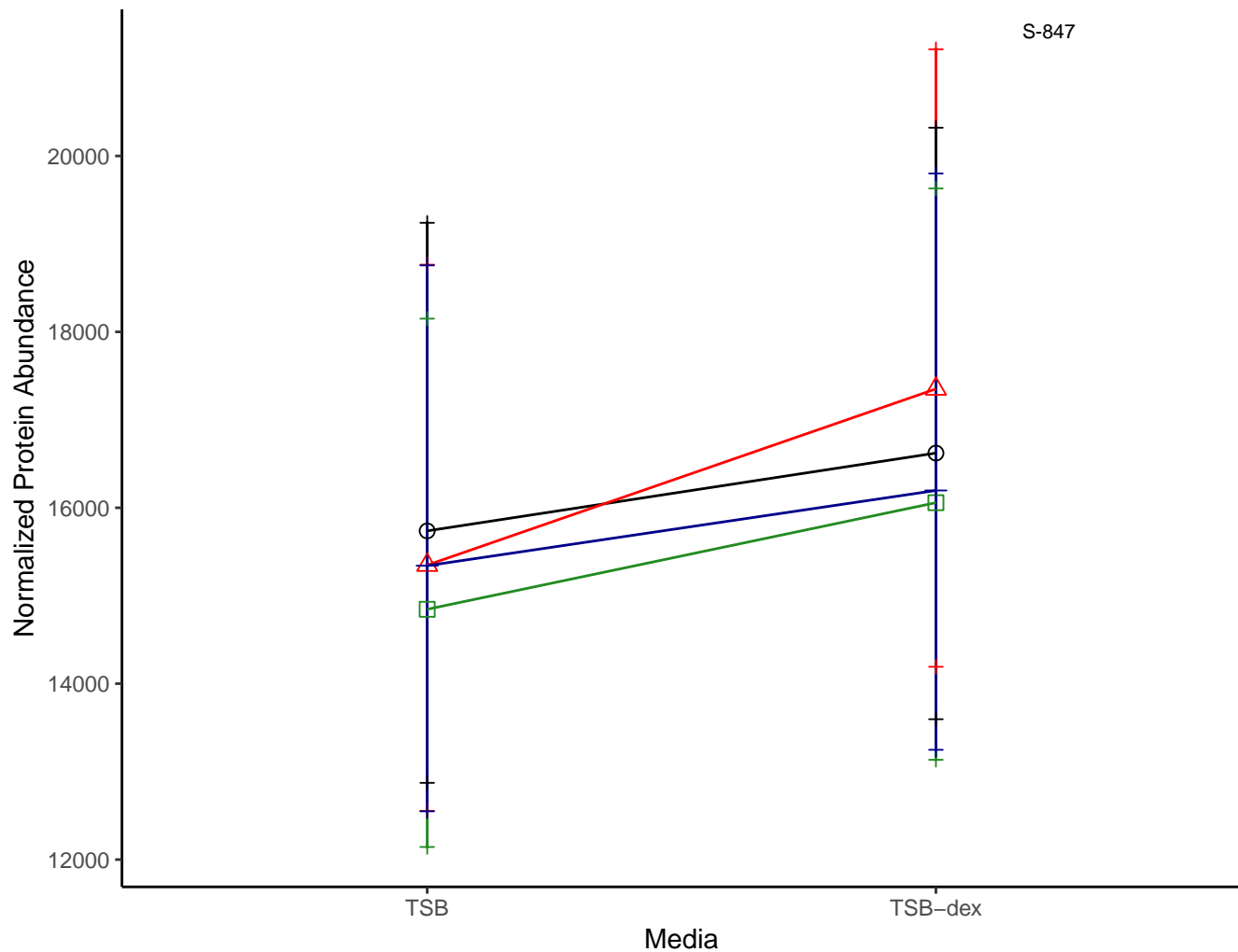
S-846



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOZ\_STAAM

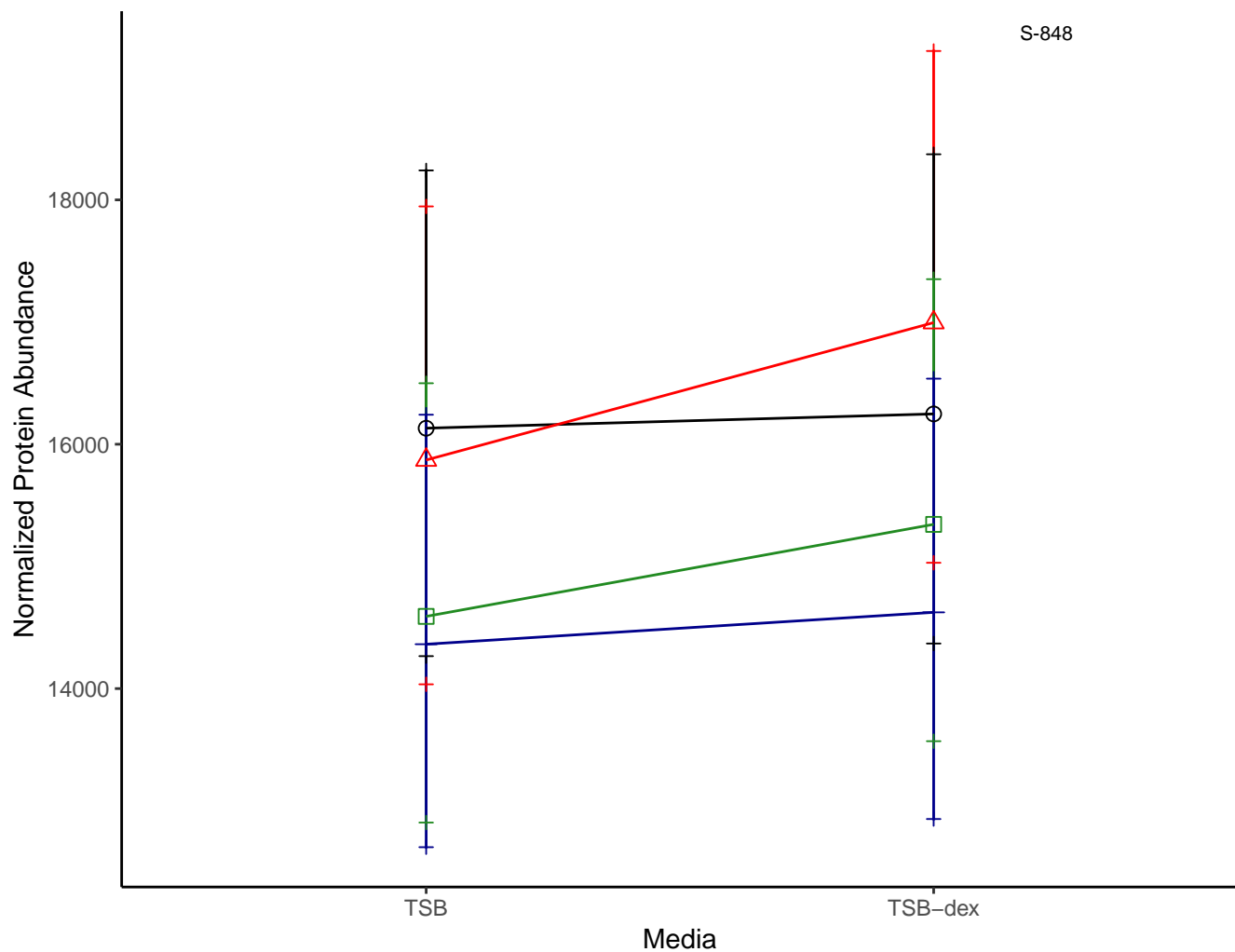
S-847



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# RRF\_STAAM

S-848

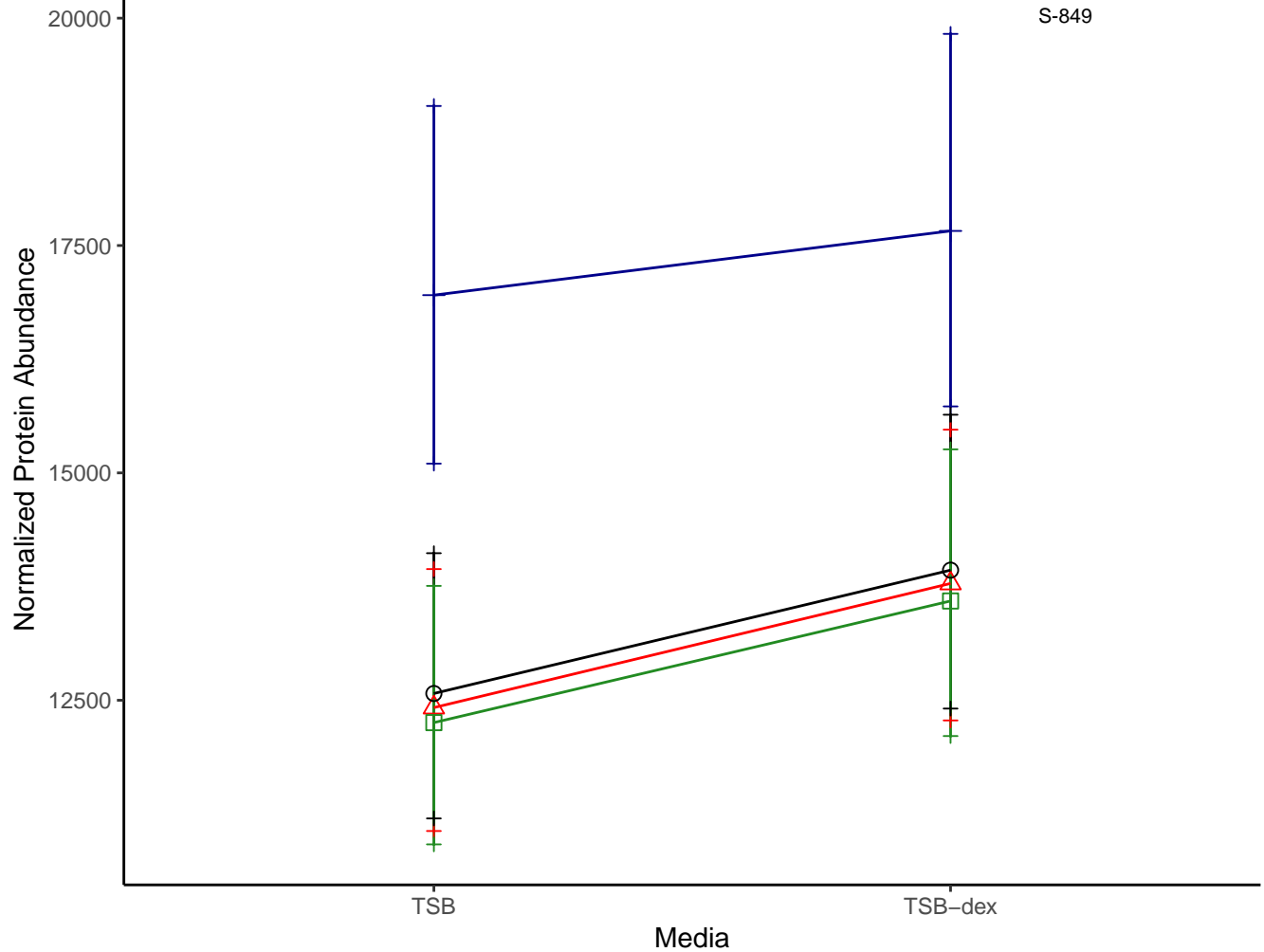


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# RS1\_STAAM

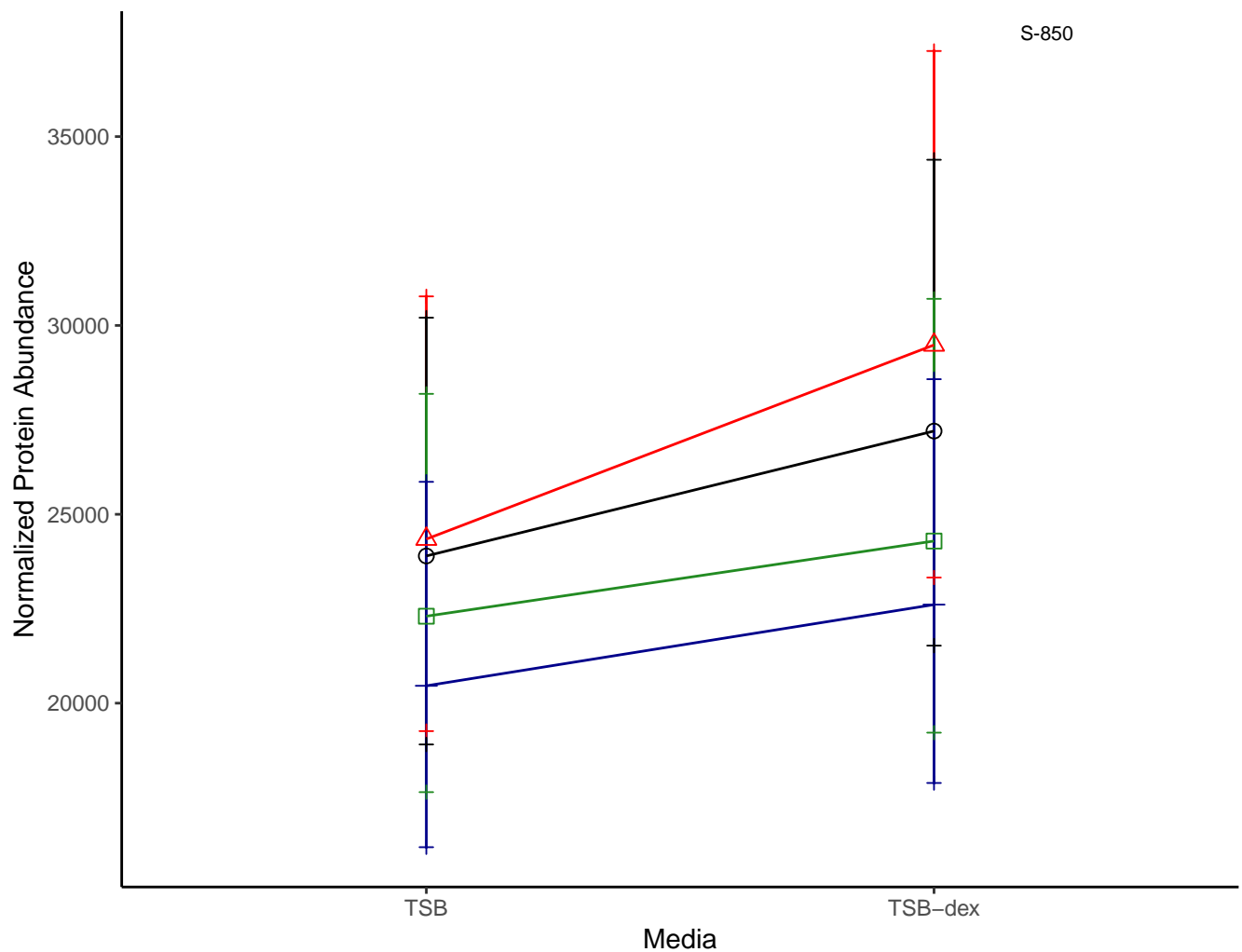
S-849



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS10\_STAAM

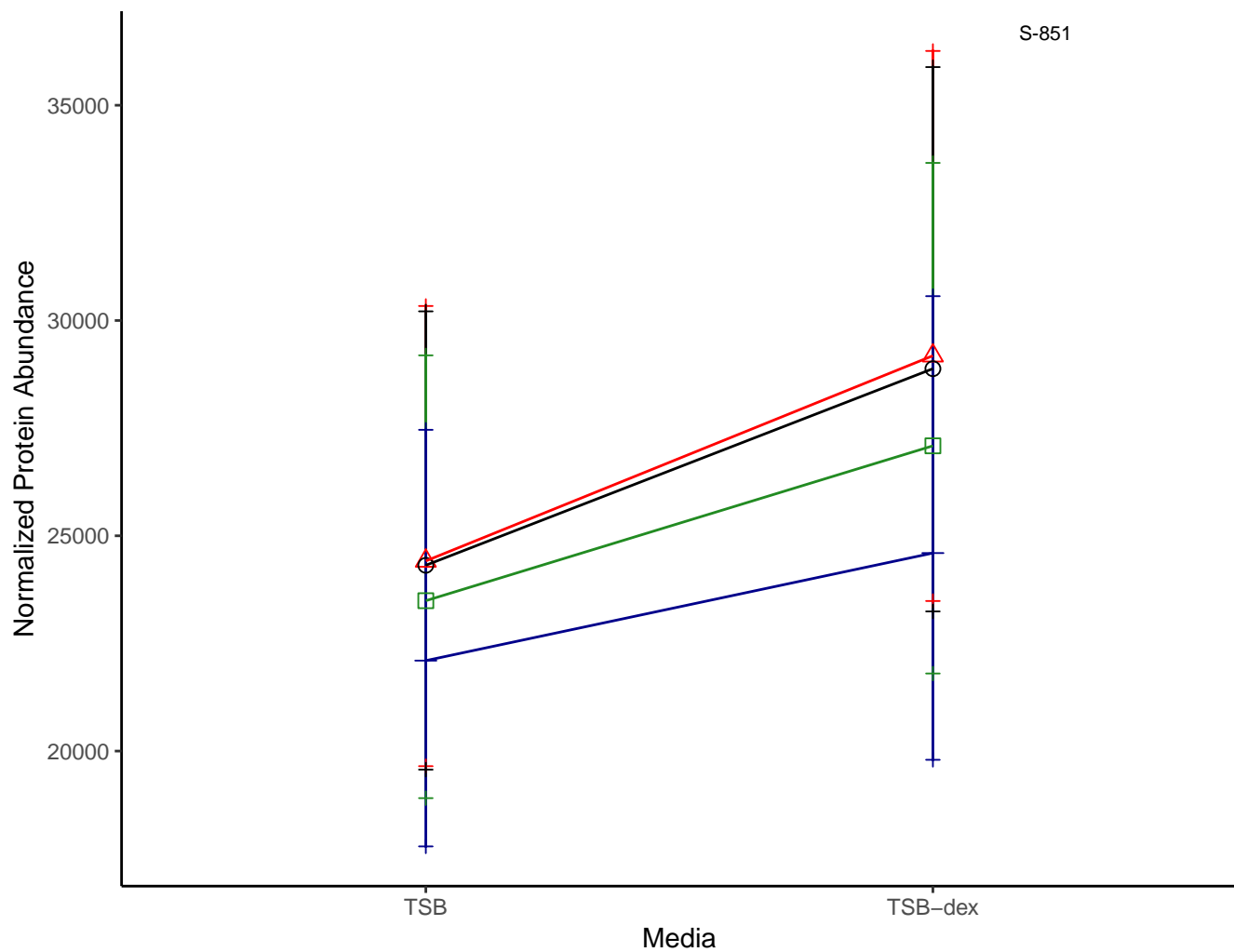
S-850



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS11\_STAAM

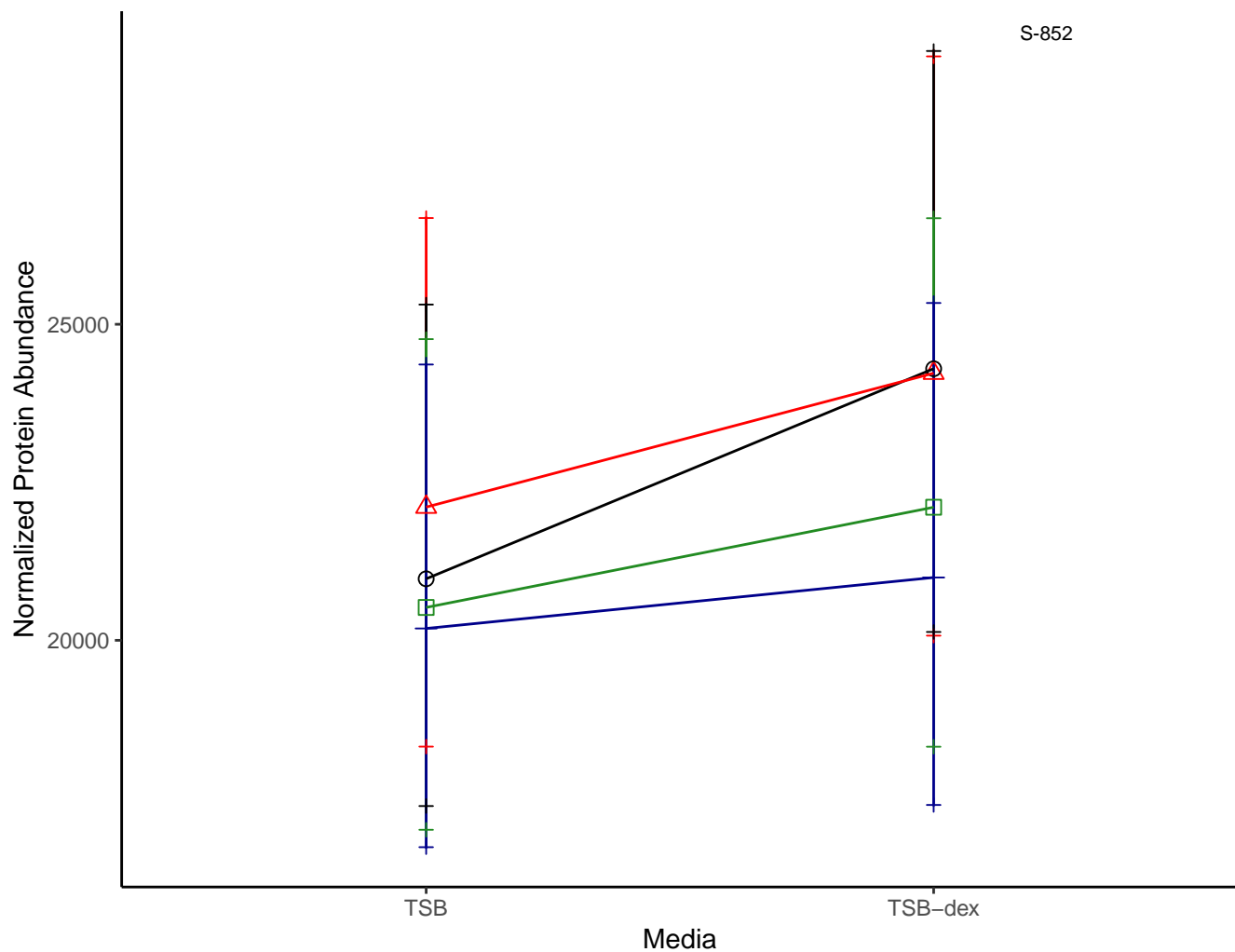
S-851



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS12\_STAAM

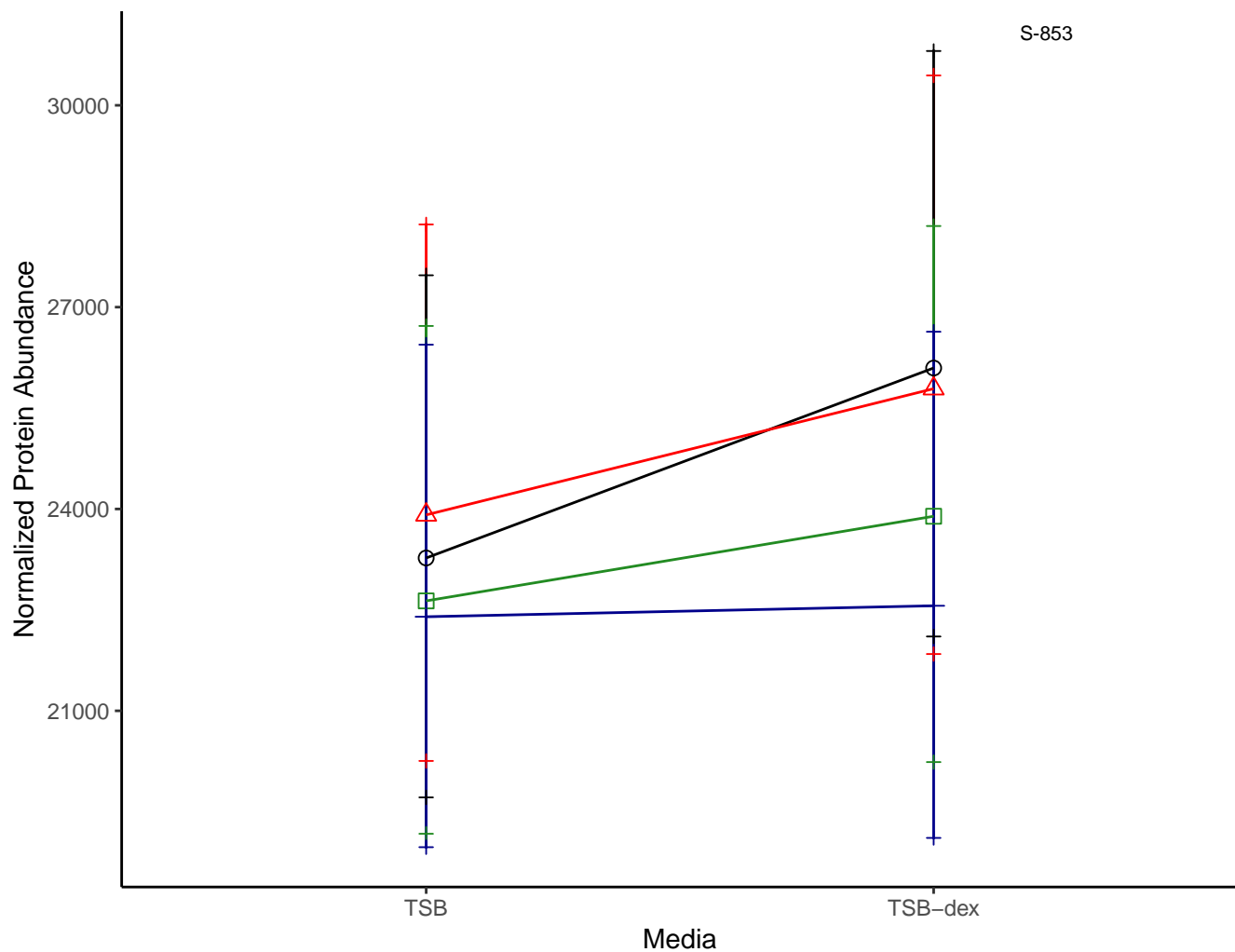
S-852



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS13\_STAAM

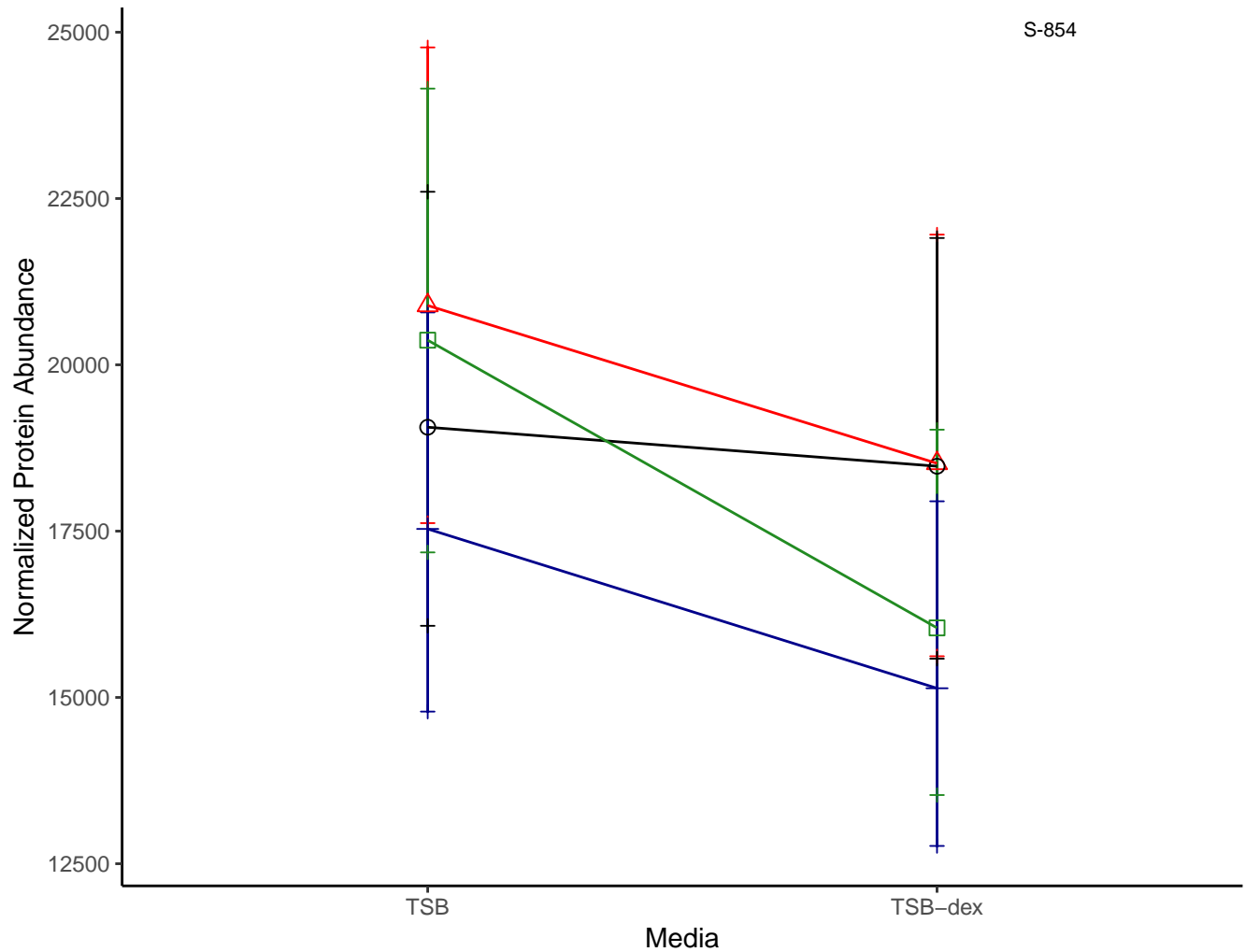
S-853



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS15\_STAAM

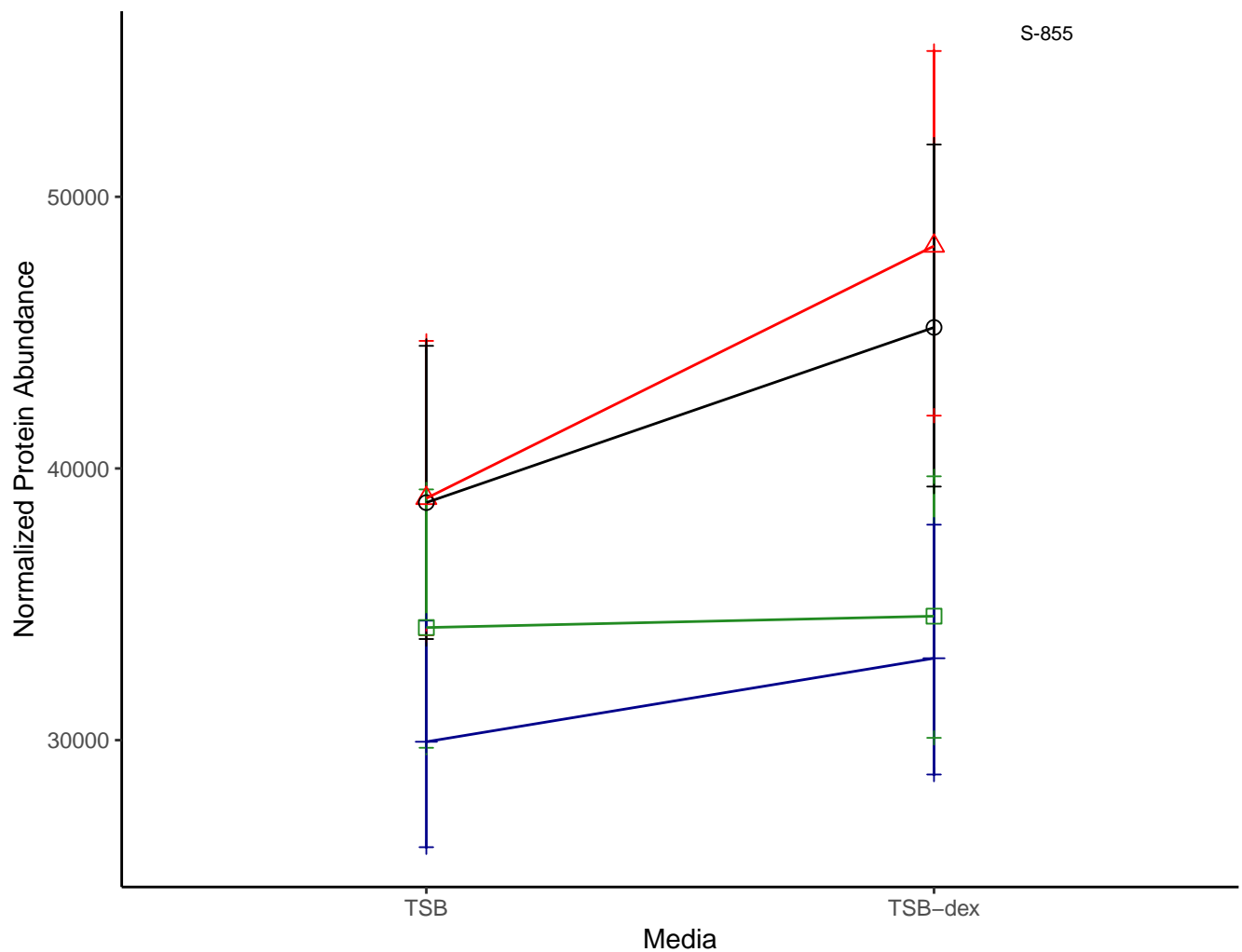
S-854



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS16\_STAAM

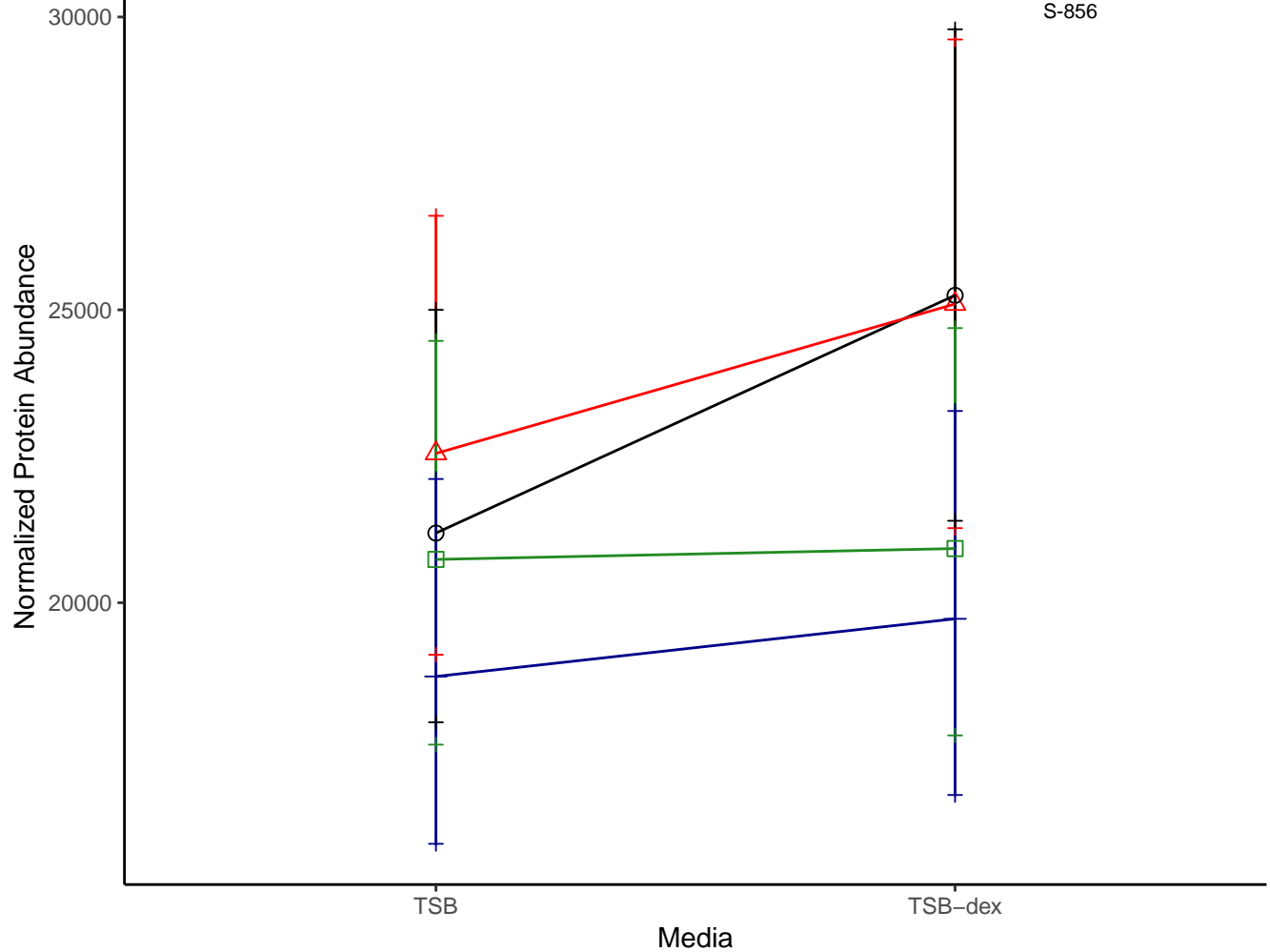
S-855



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS17\_STAAM

S-856

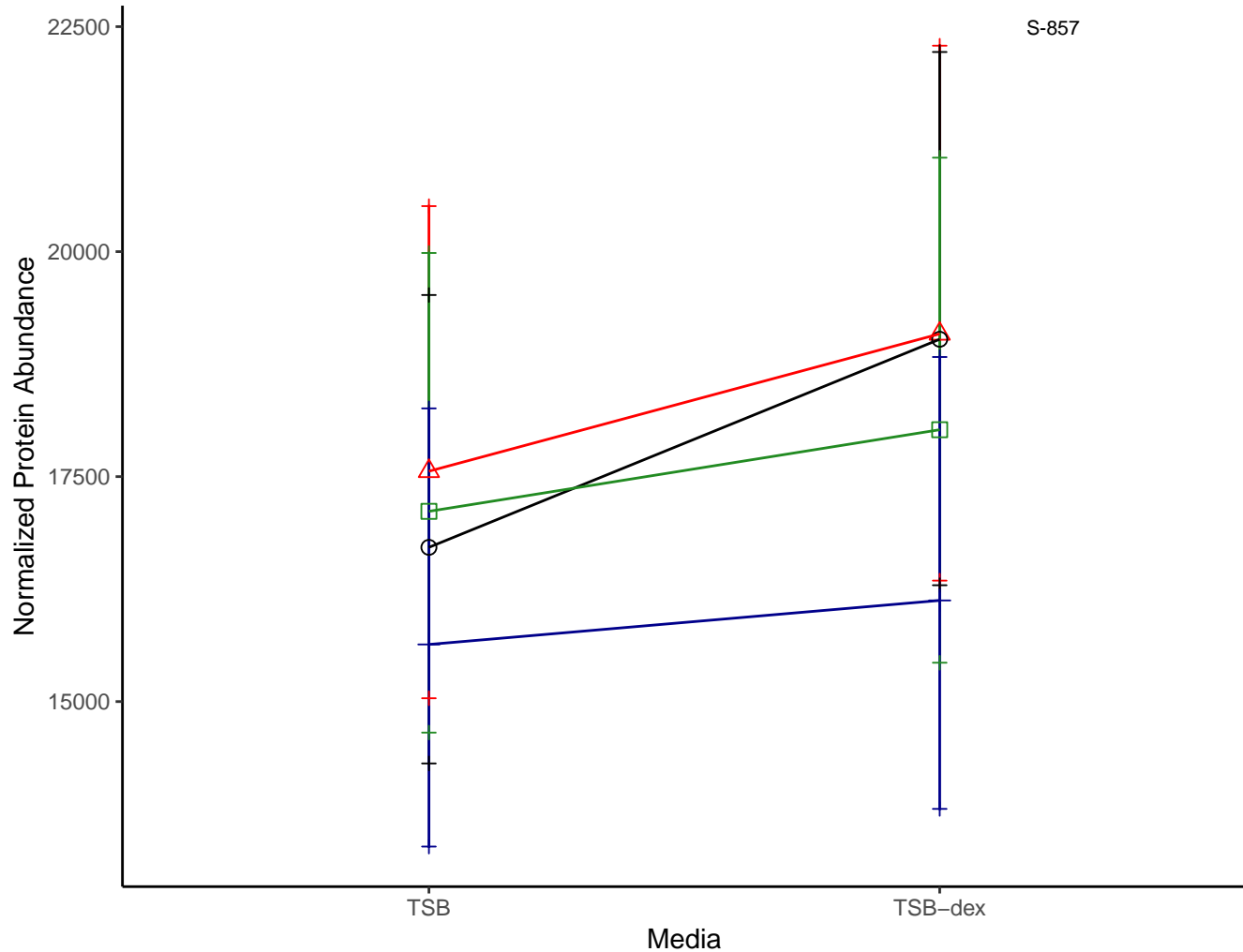


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA



# RS18\_STAAM

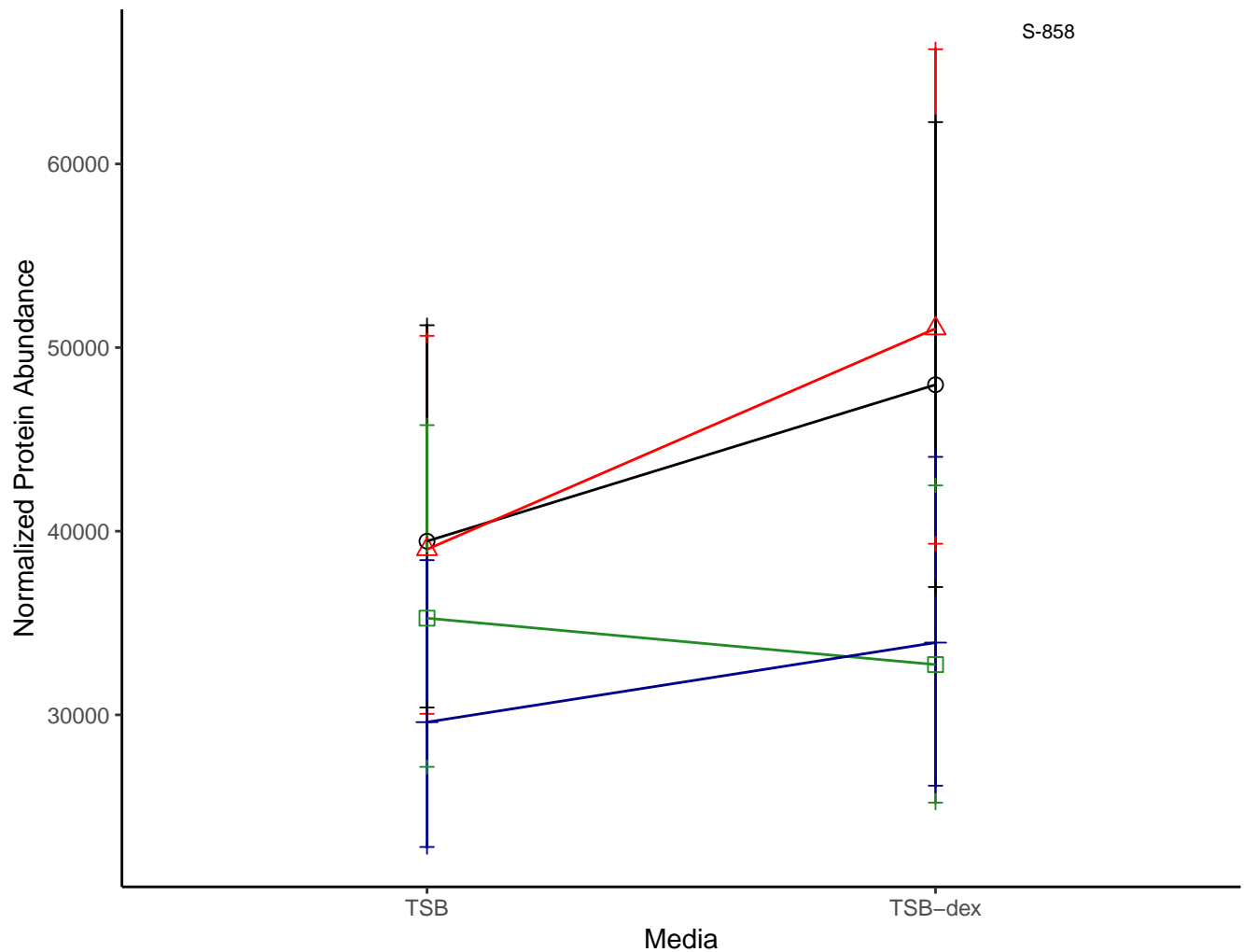
S-857



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS19\_STAAM

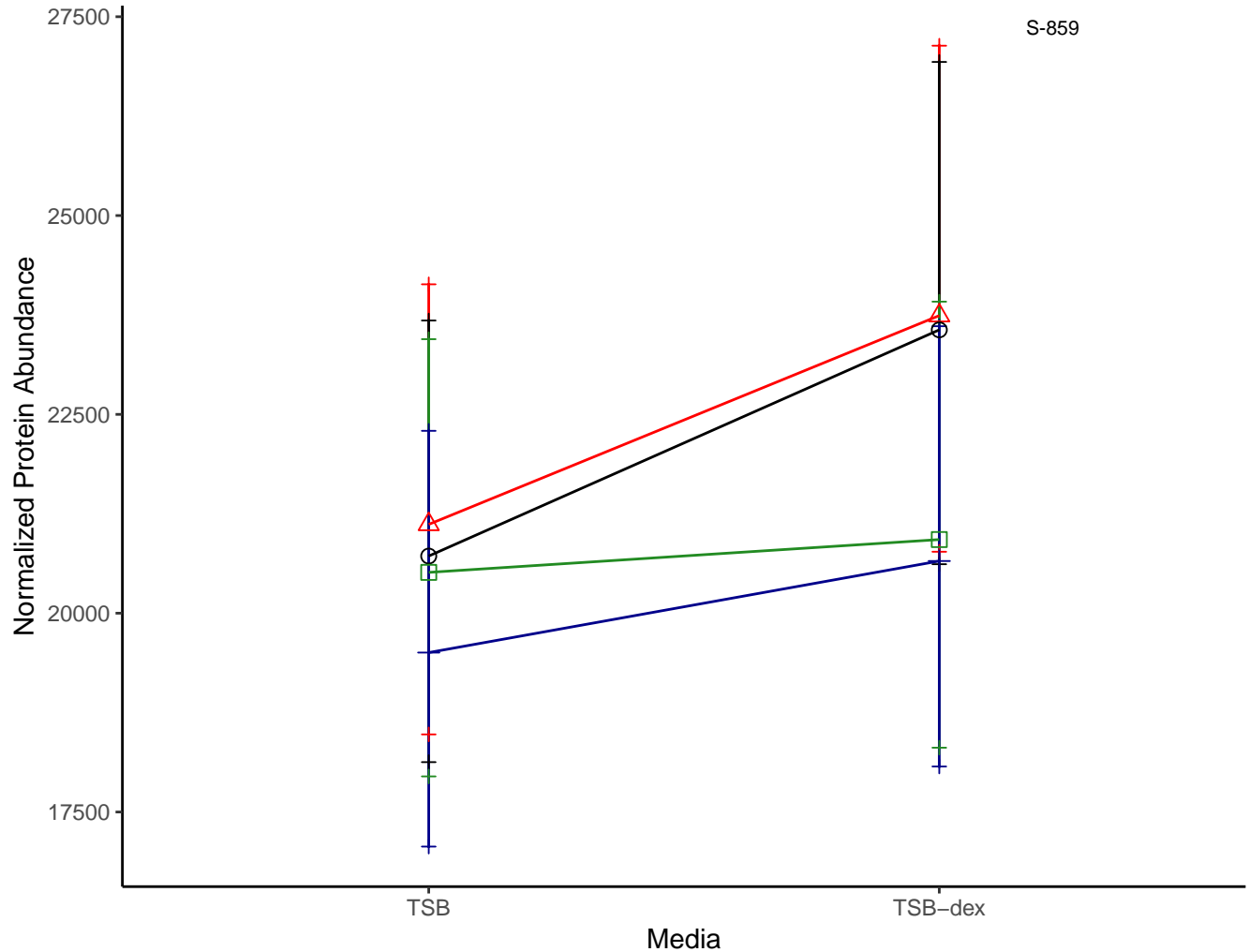
S-858



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS2\_STAAM

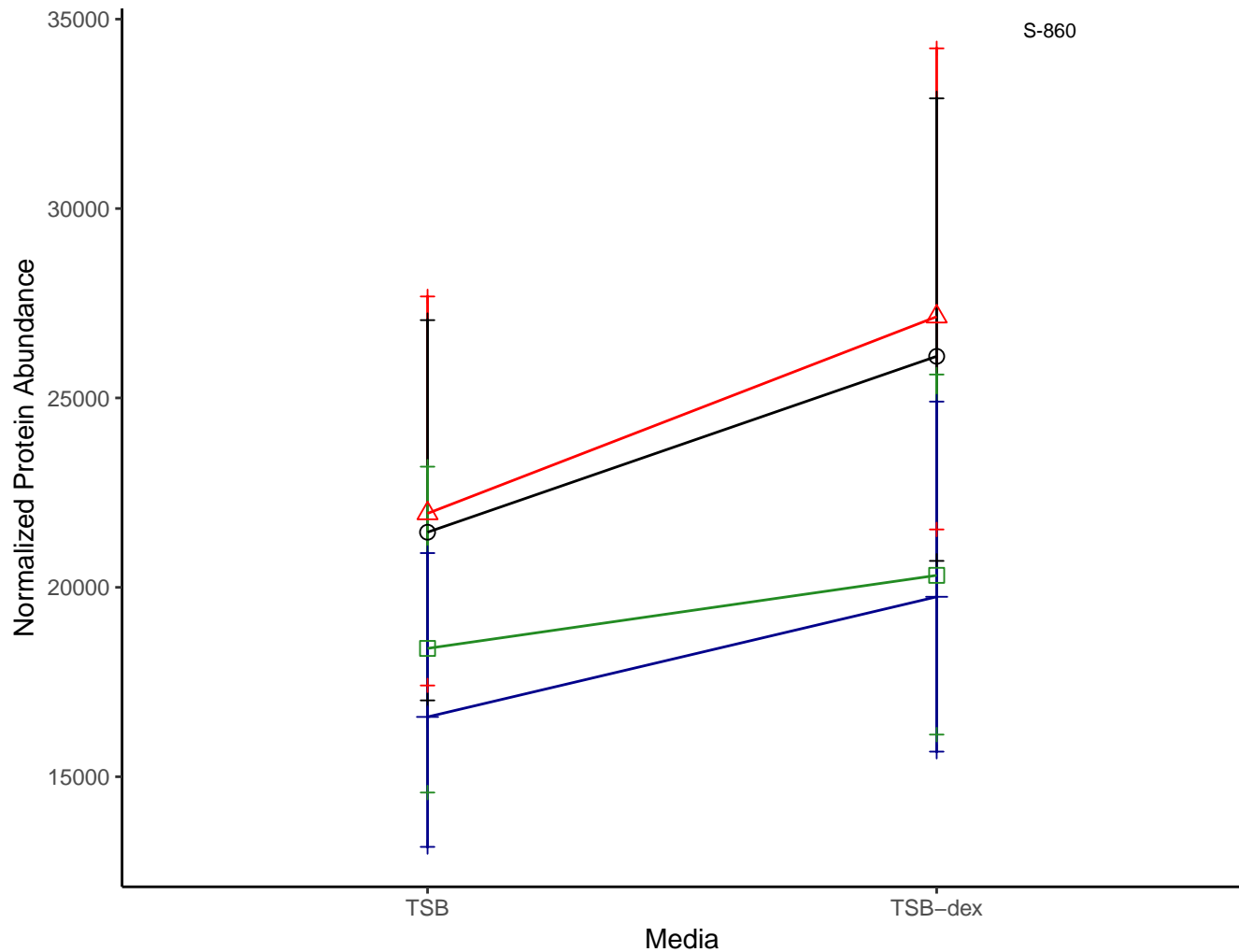
S-859



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS20\_STAAM

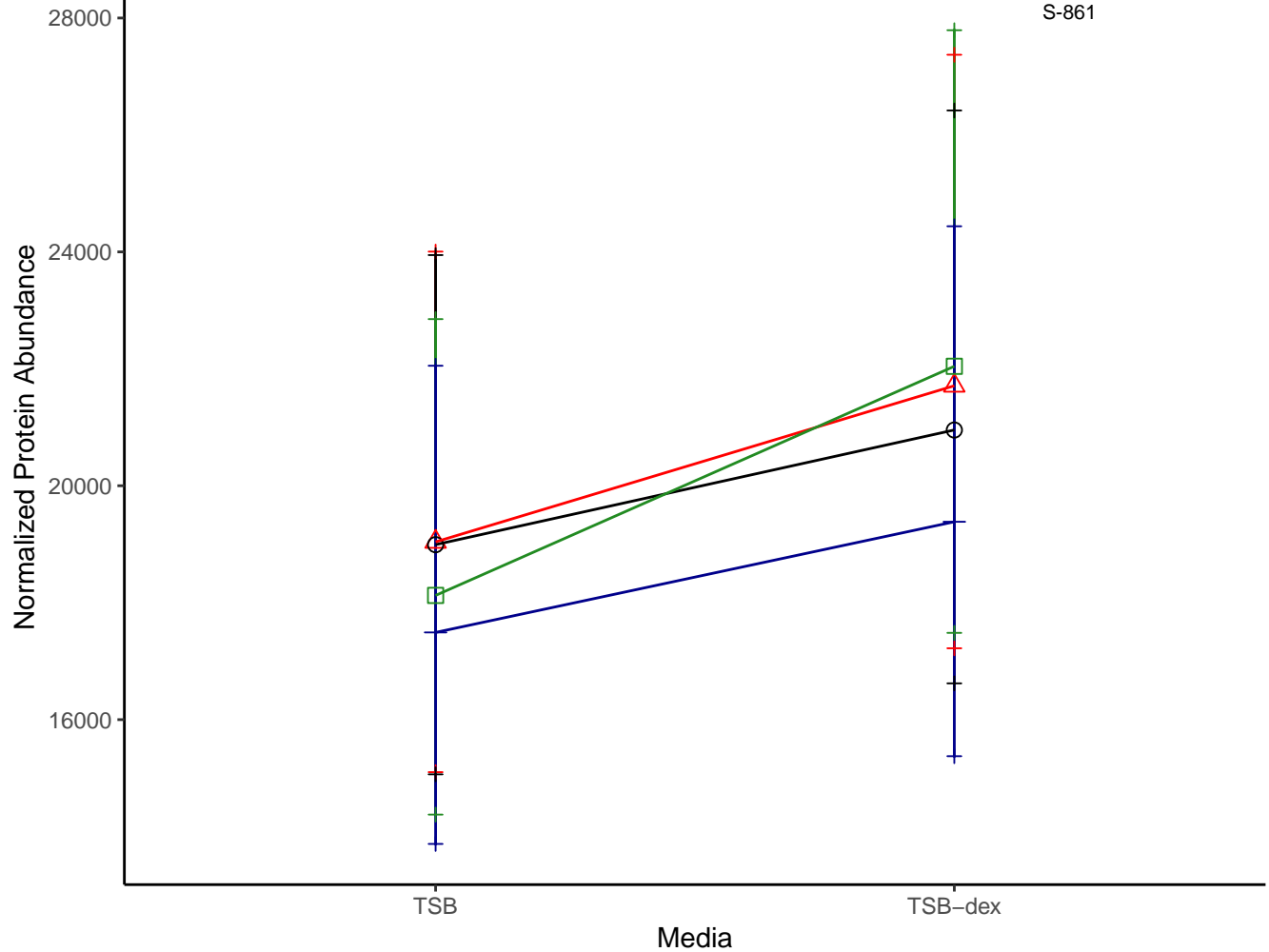
S-860



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# RS21\_STAAM

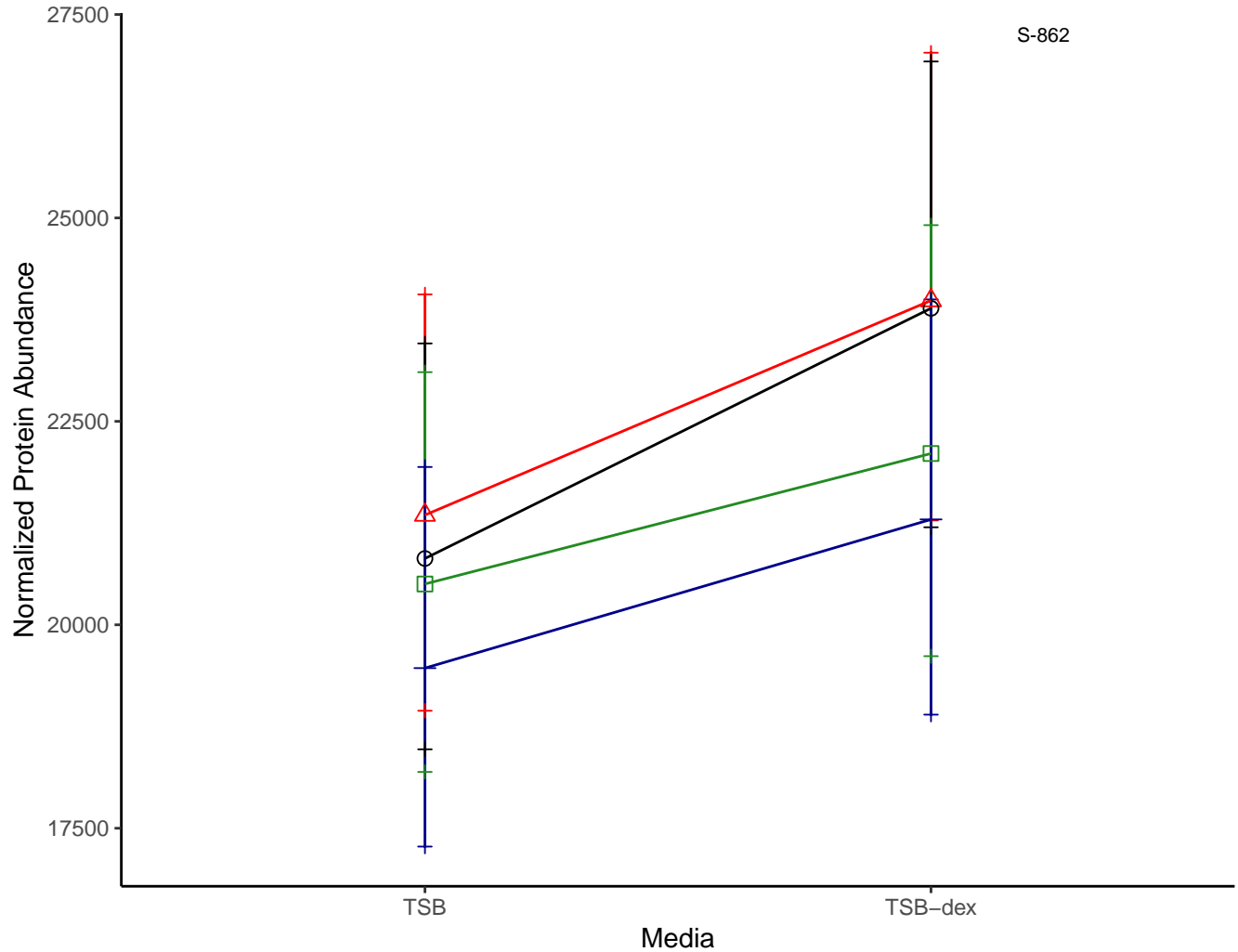
S-861



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS3\_STAAM

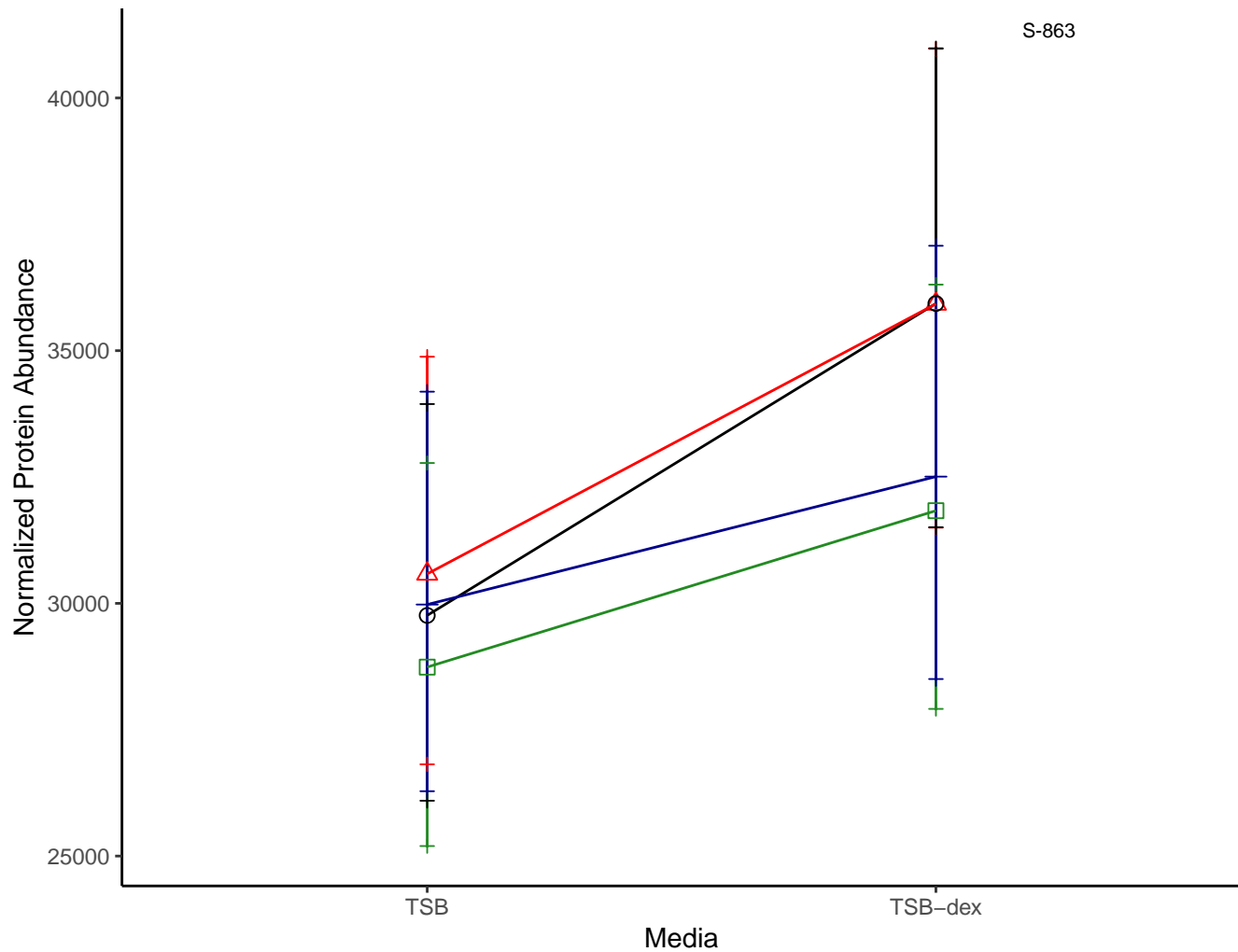
S-862



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS4\_STAAM

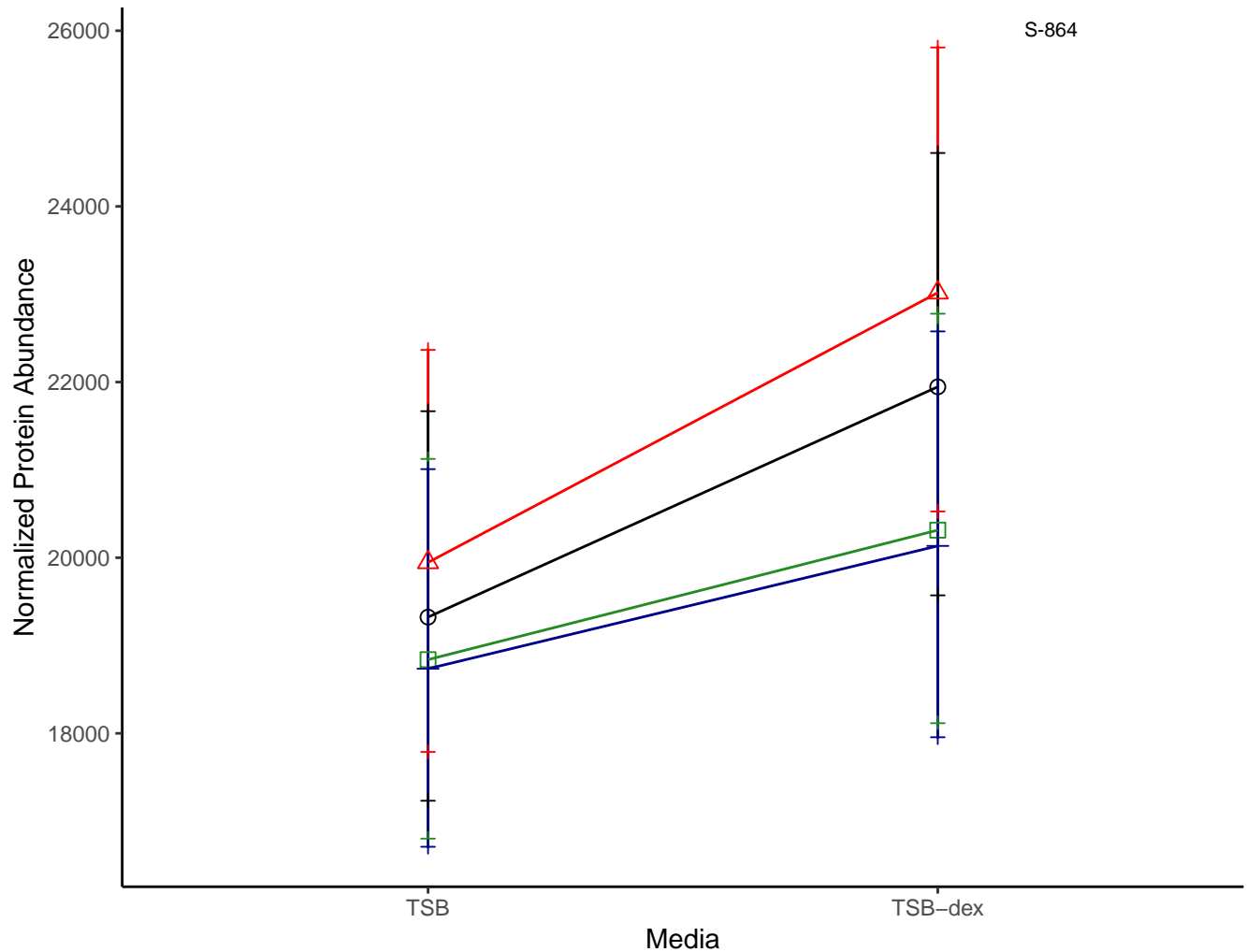
S-863



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS5\_STAAM

S-864

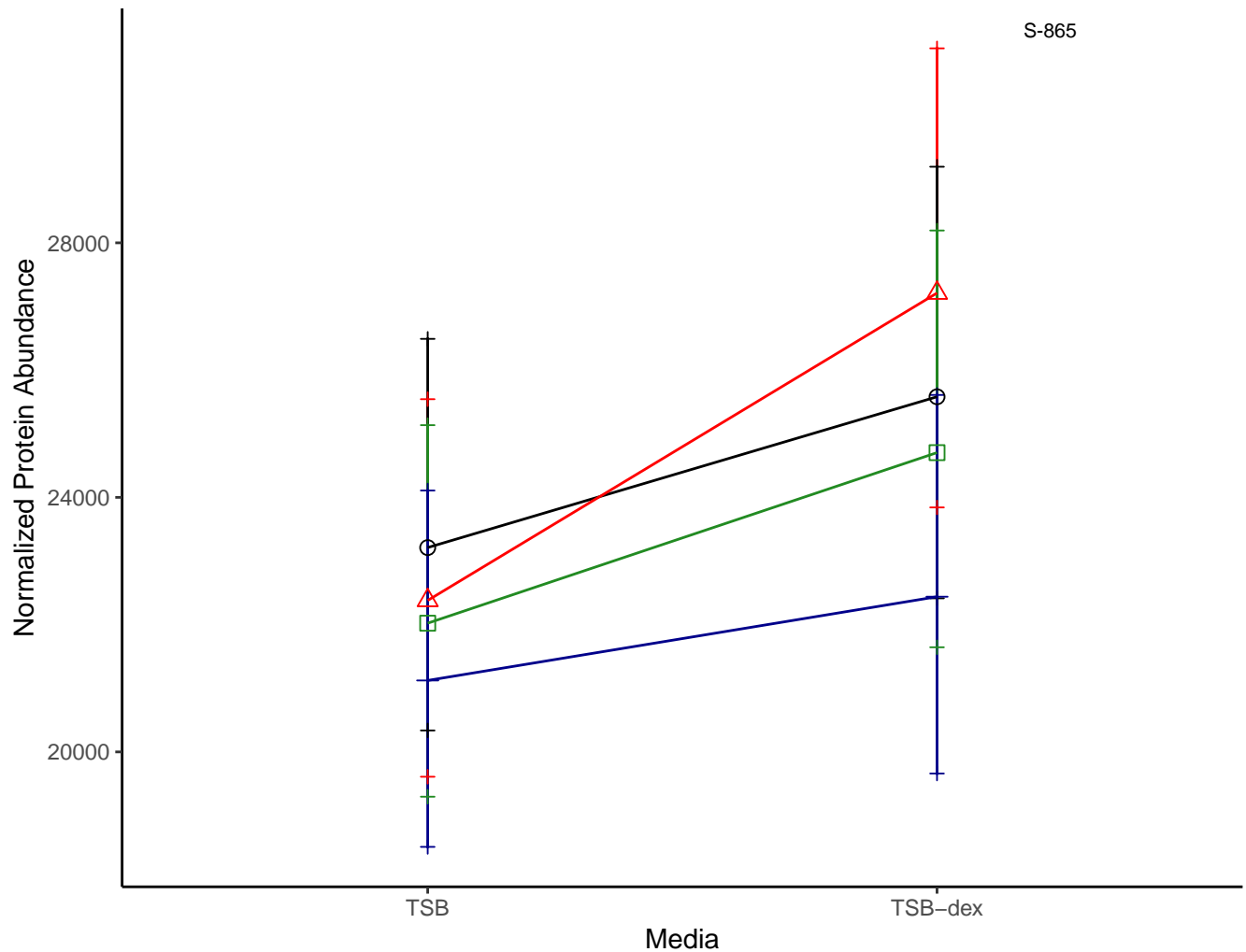


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# RS6\_STAAM

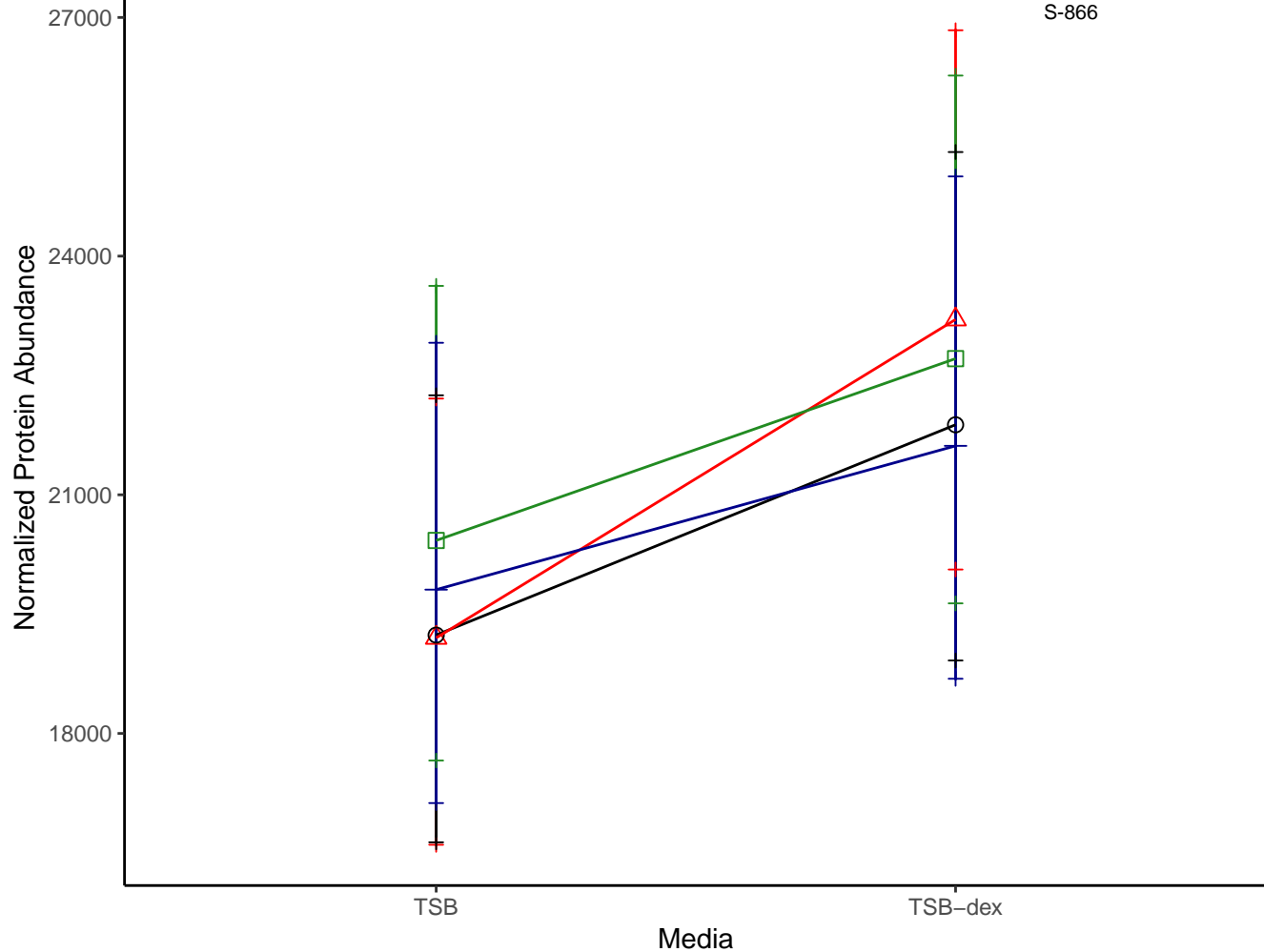
S-865



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS7\_STAAM

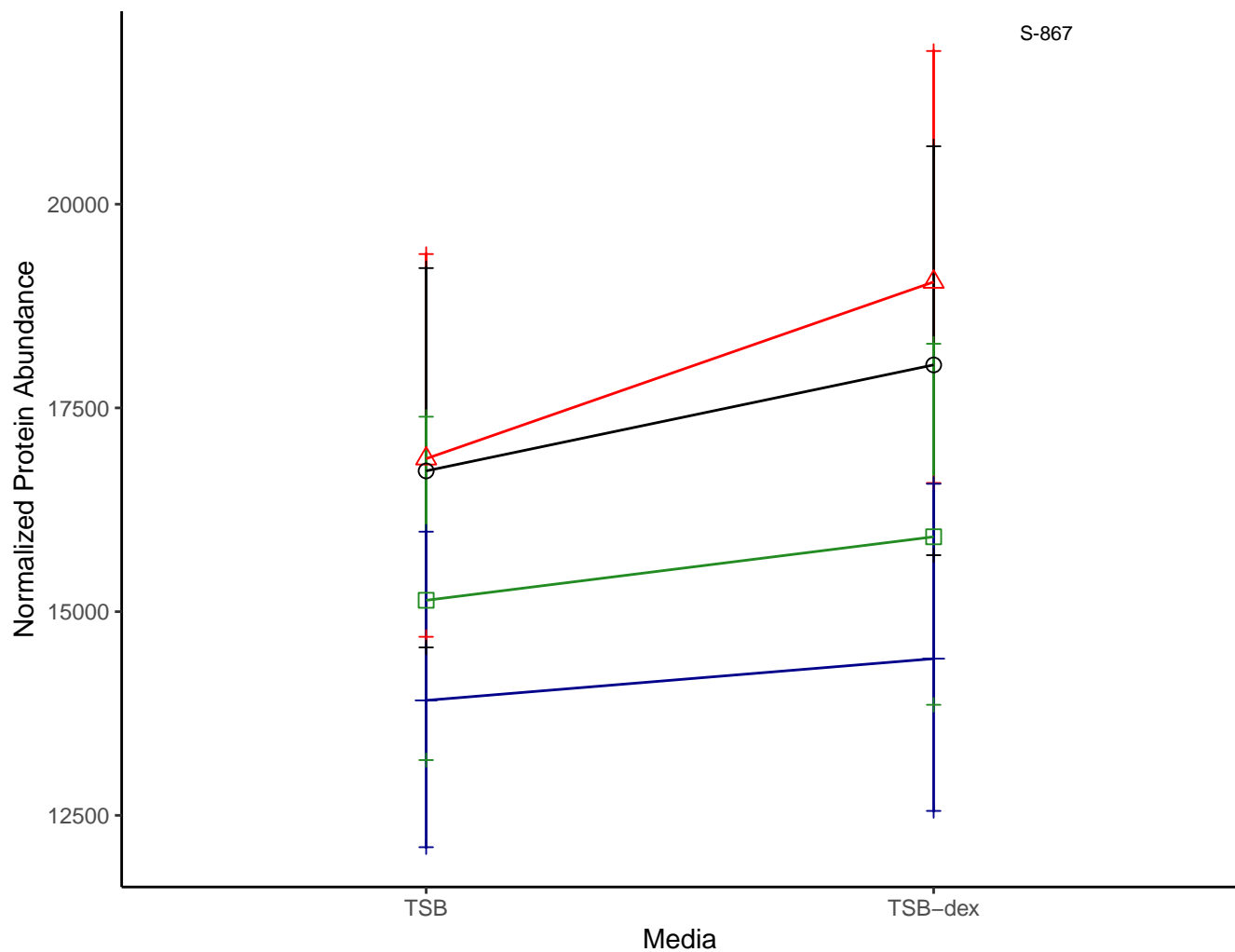
S-866



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS8\_STAAM

S-867



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS9\_STAAM

S-868

Normalized Protein Abundance

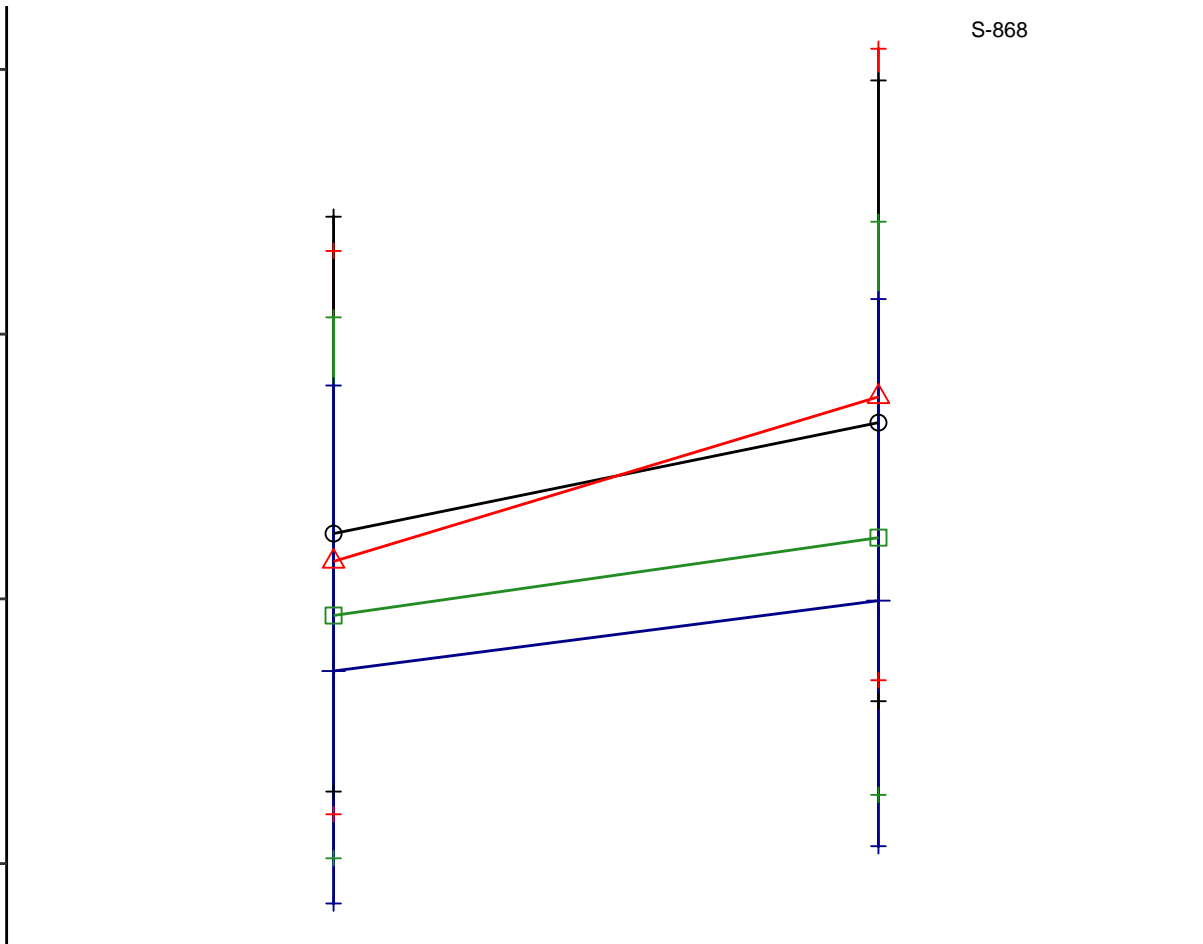
35000  
30000  
25000  
20000

TSB

TSB-dex

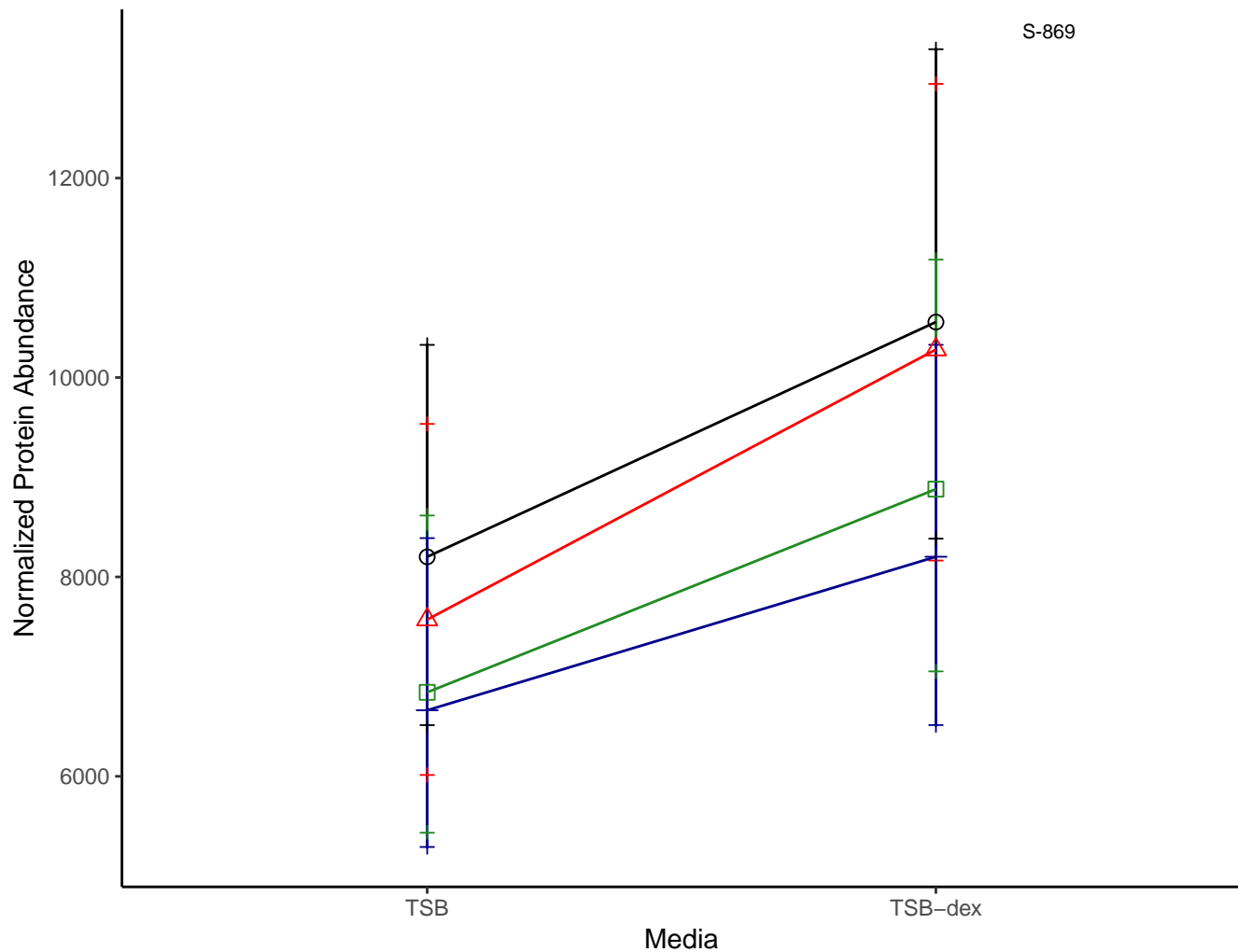
Media

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RSBV\_STAAM

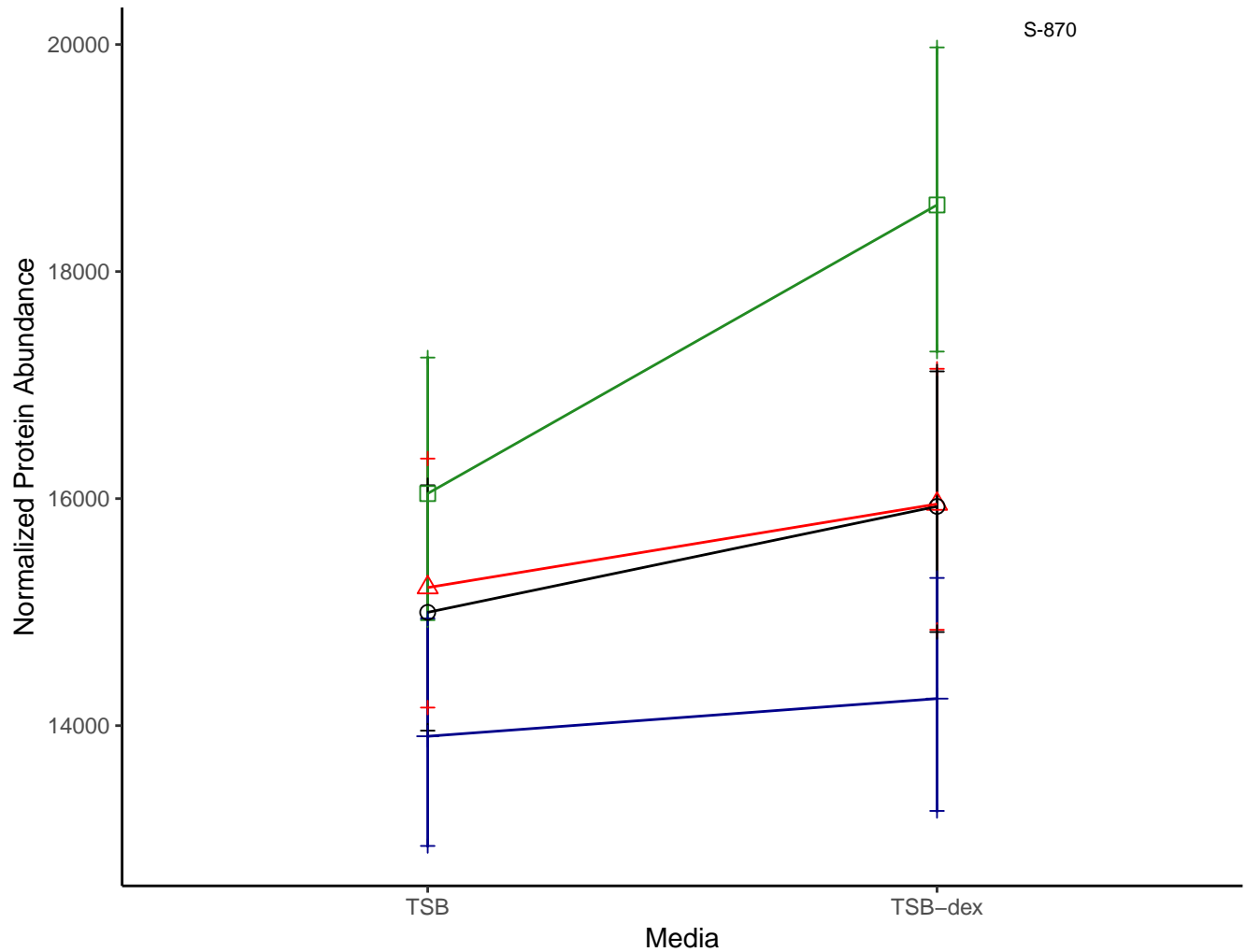
S-869



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RSBW\_STAAM

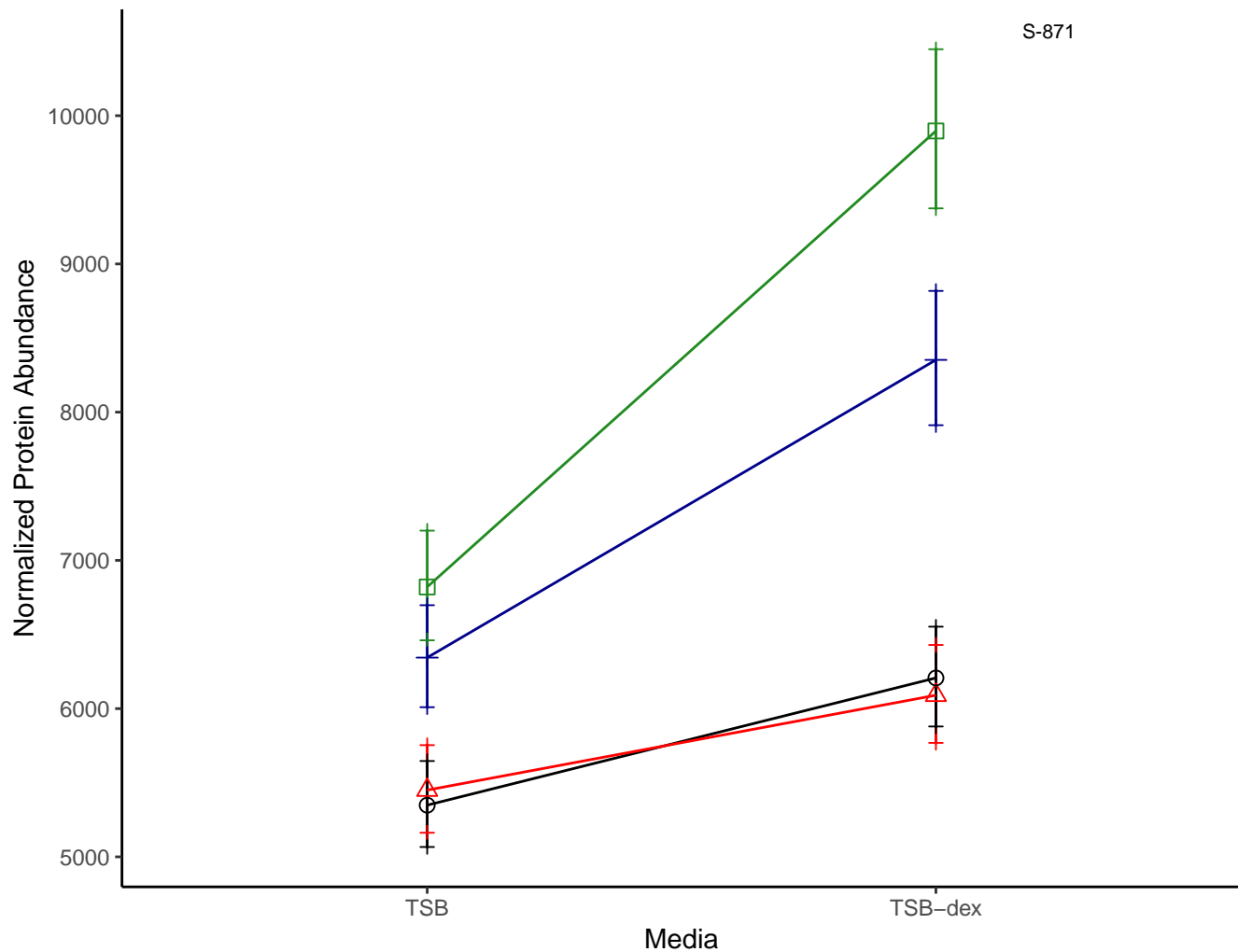
S-870



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RSMA\_STAAM

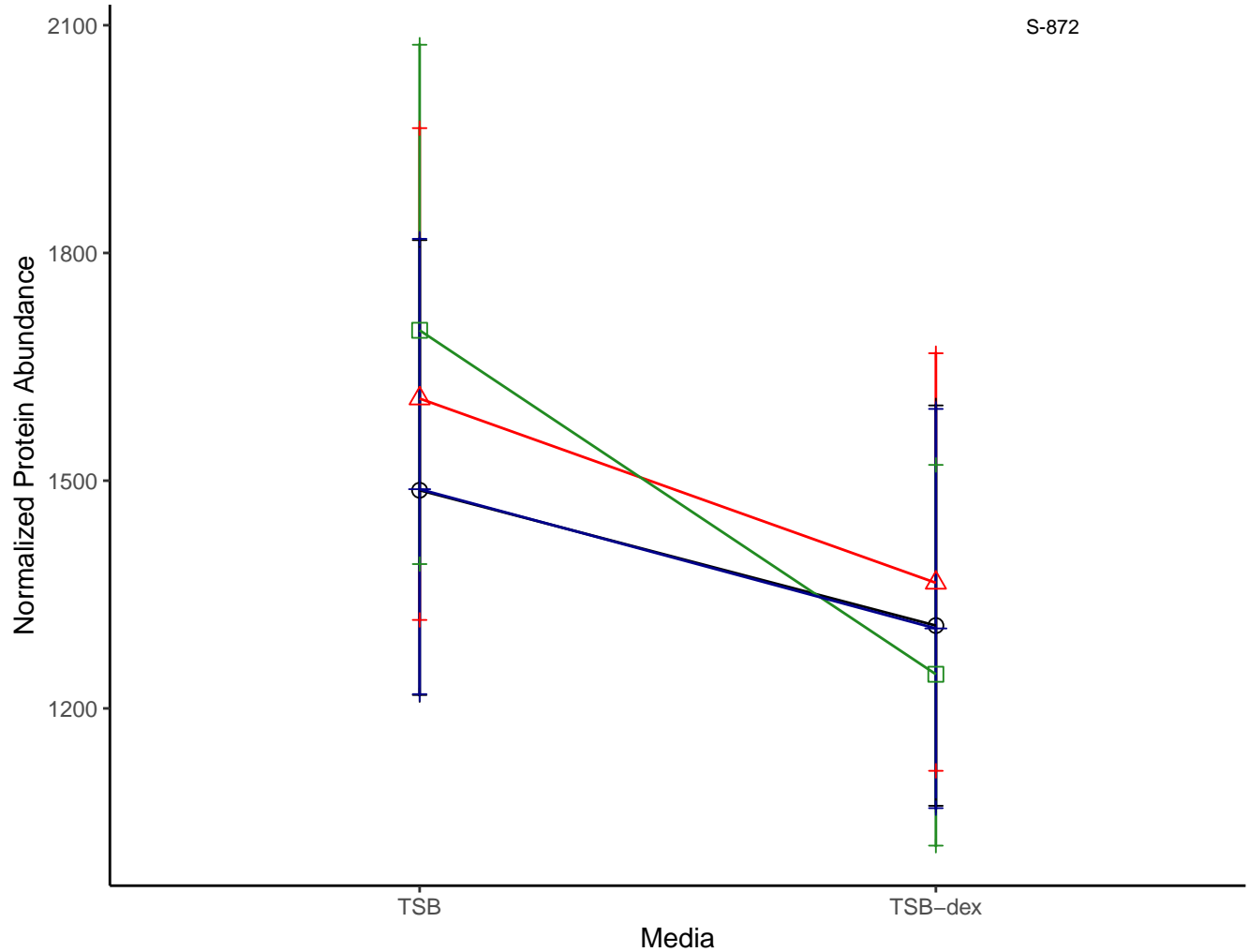
S-871



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RSMG\_STAAM

S-872

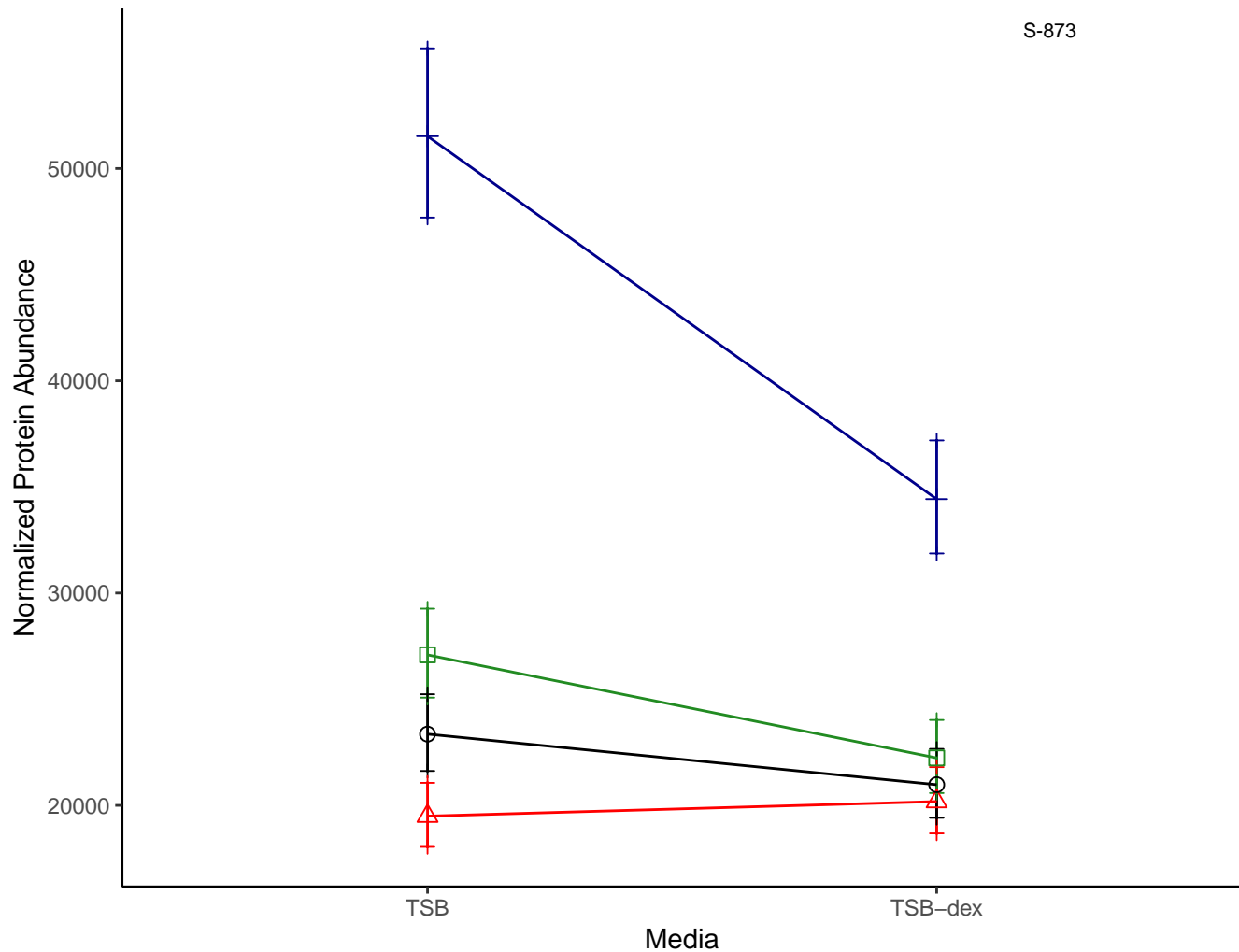


- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# RUVX\_STAAM

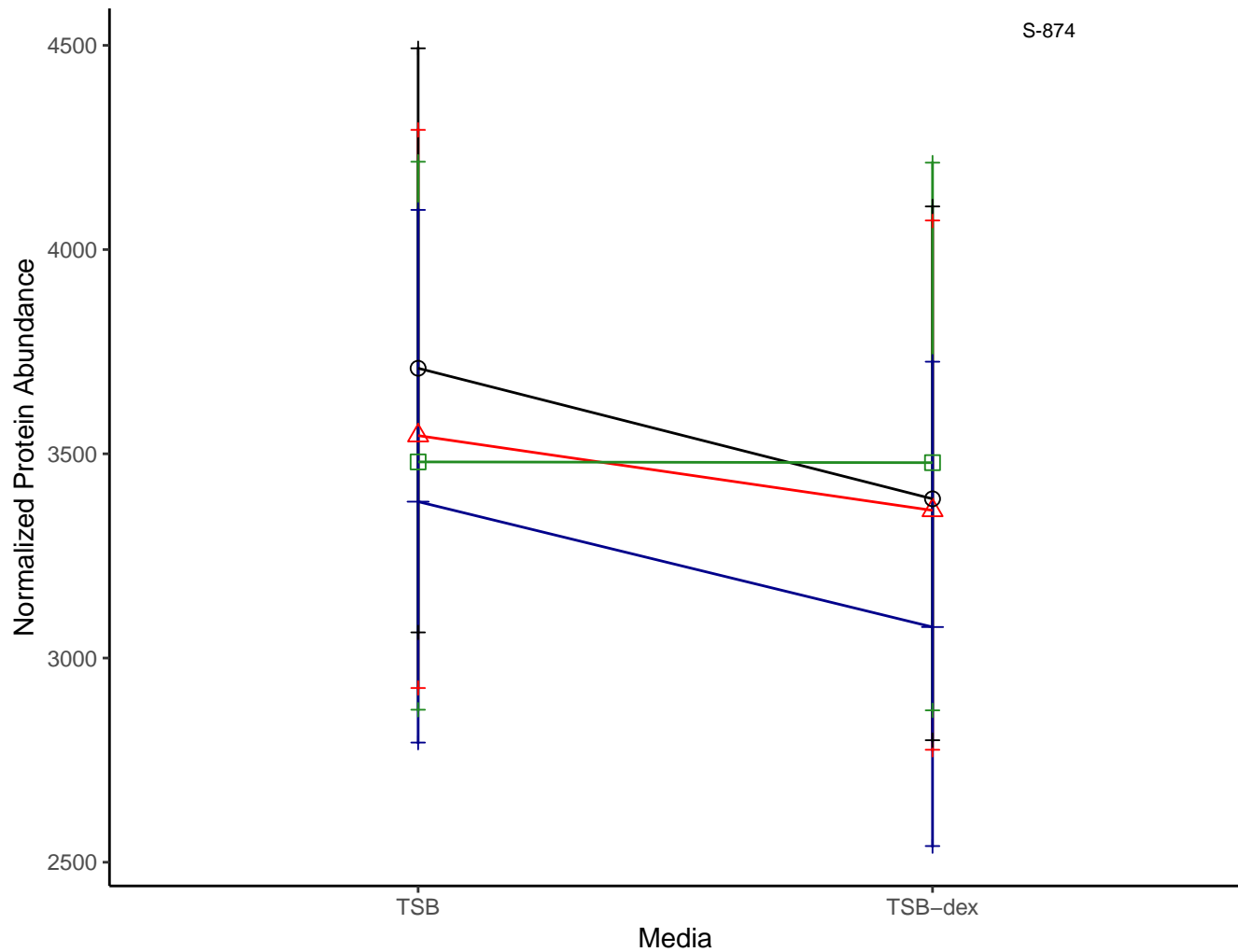
S-873



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# S3AD\_STAAM

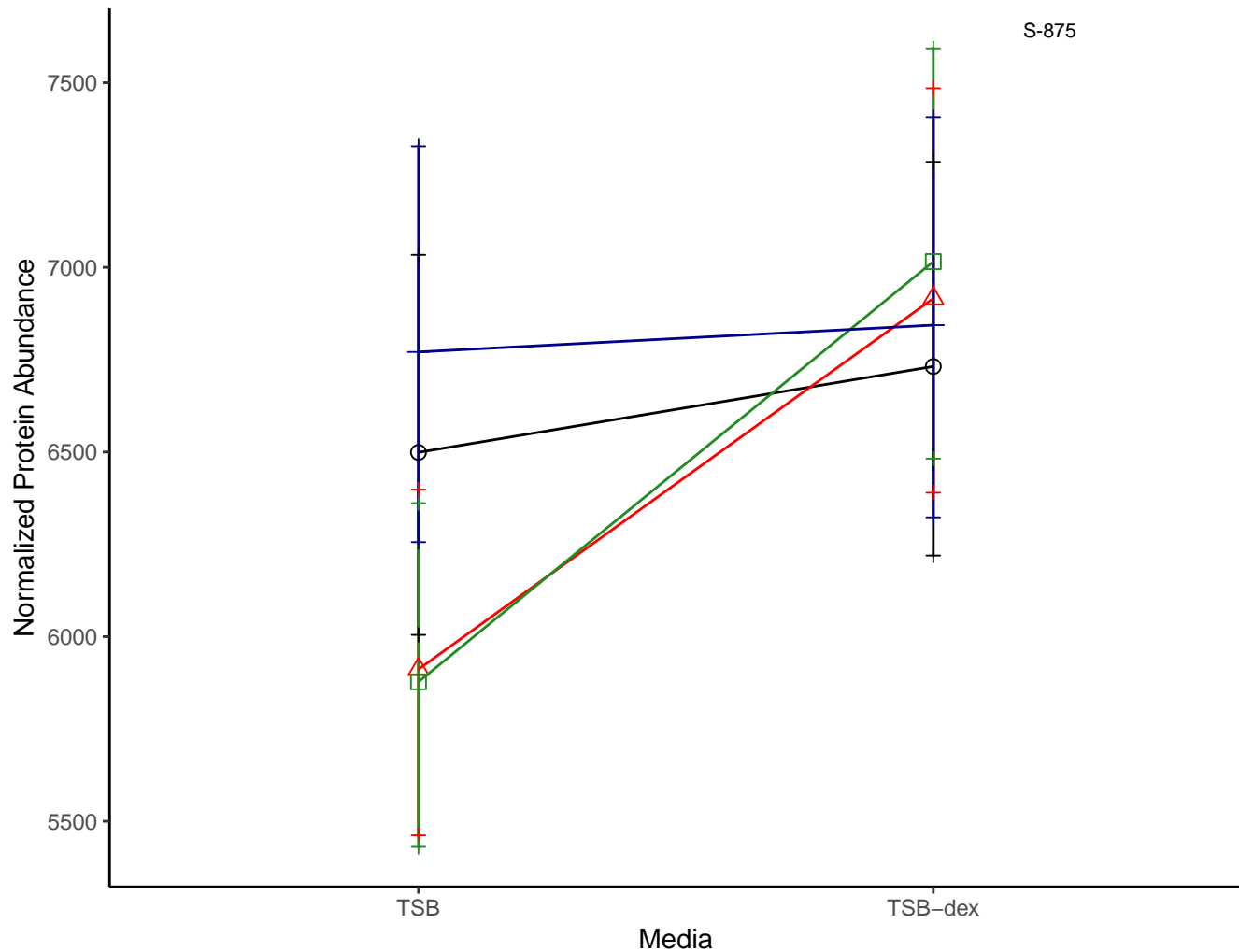
S-874



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SAER\_STAAM

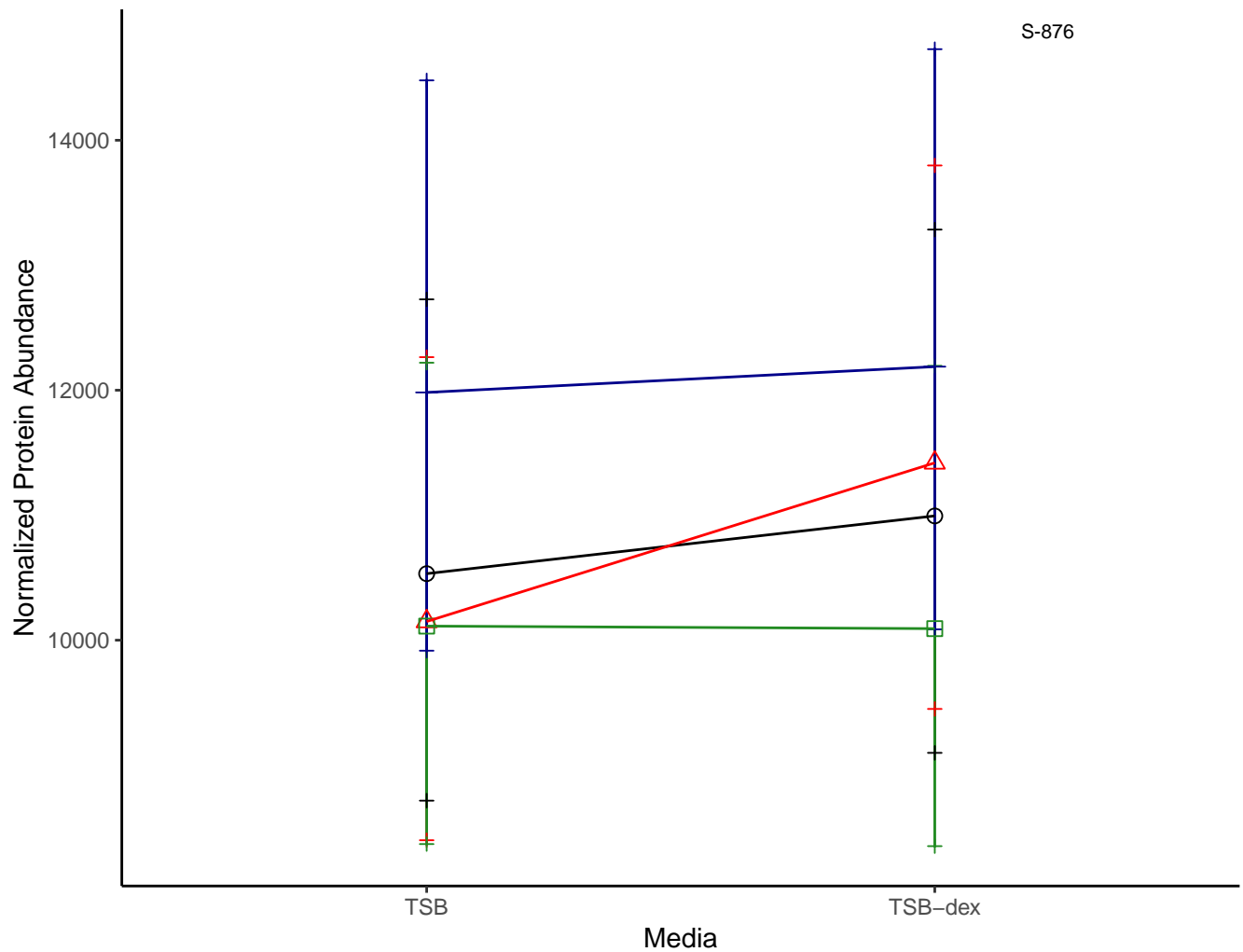
S-875



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SARA\_STAAM

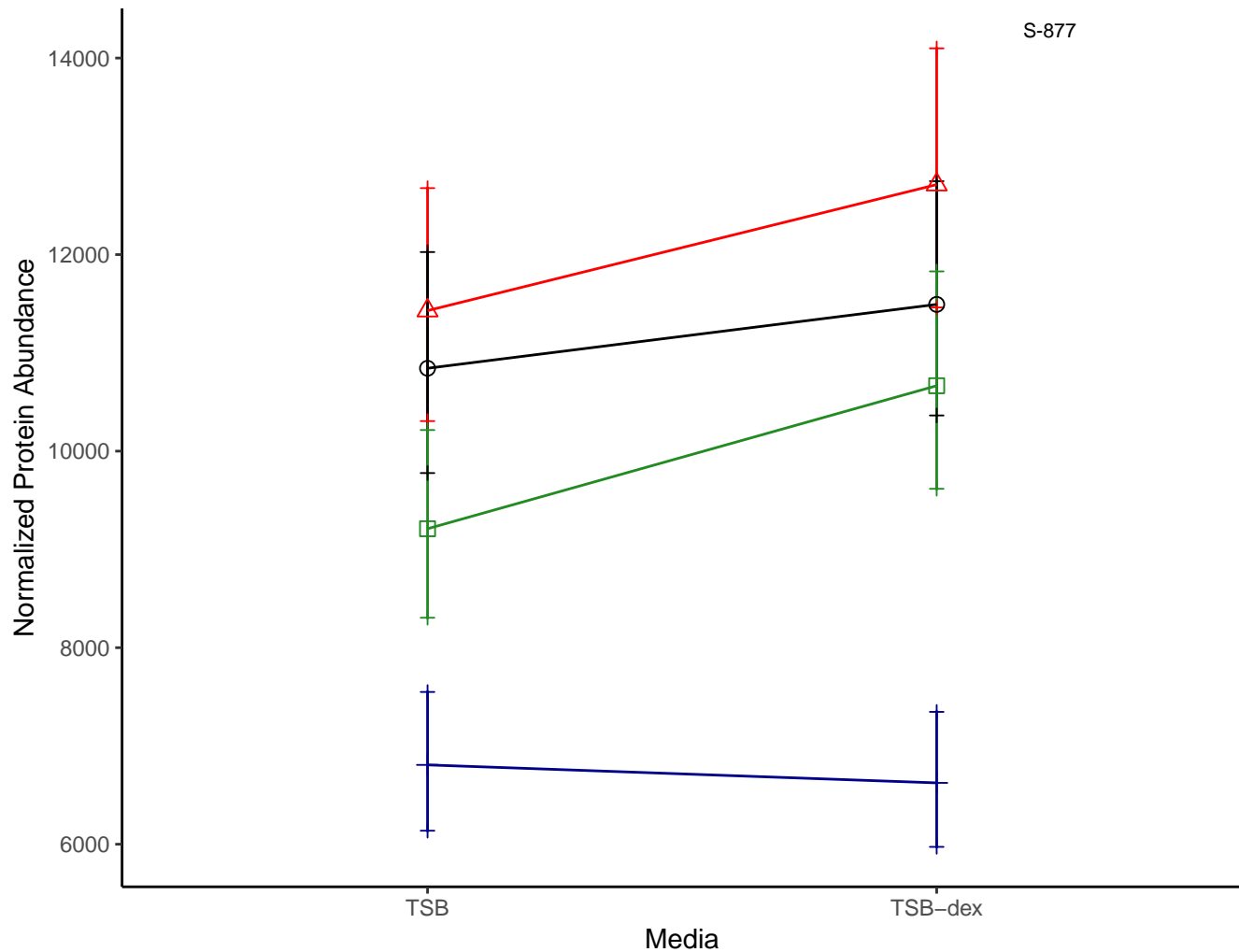
S-876



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SARR\_STAAM

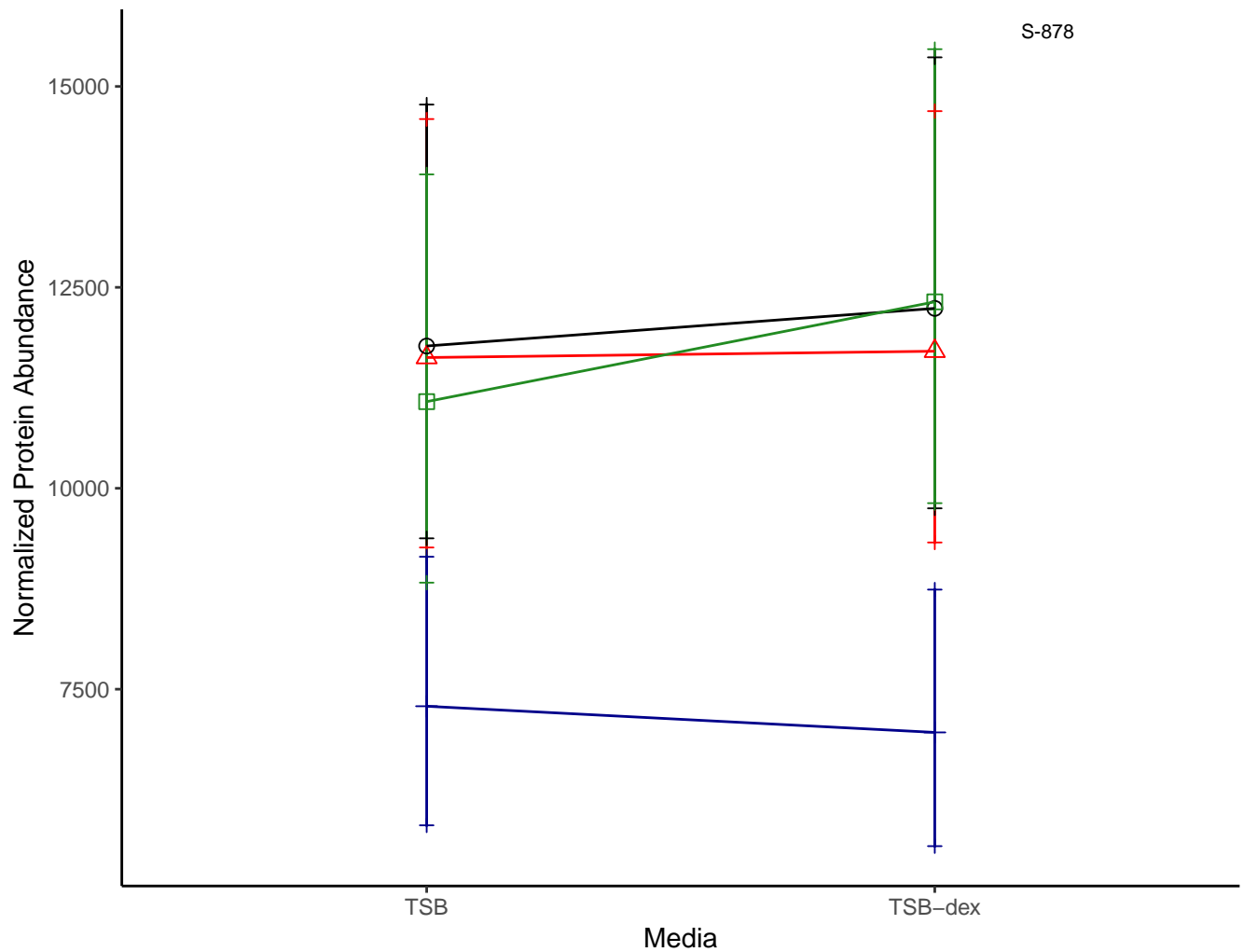
S-877



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SARS\_STAAM

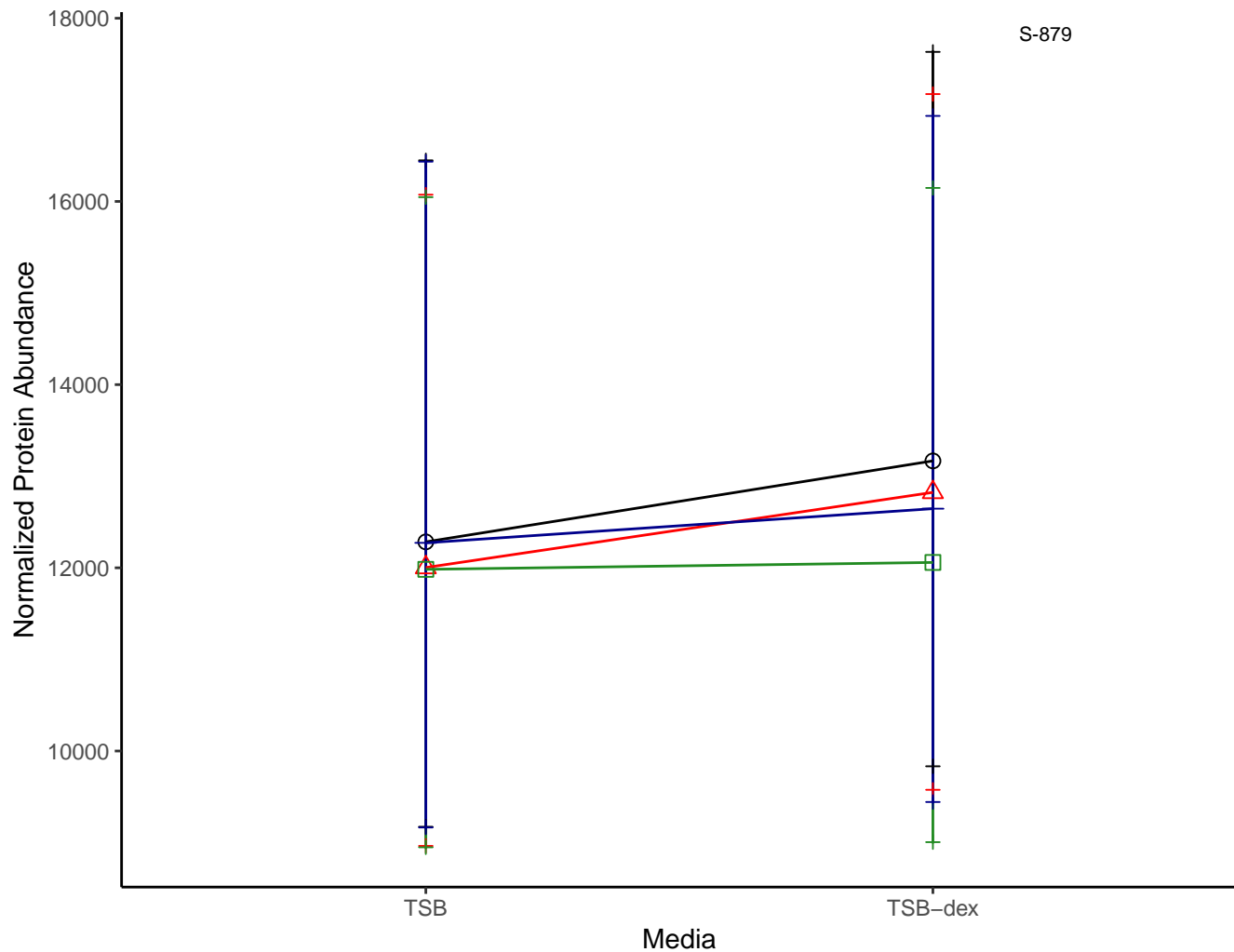
S-878



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# SBCC\_STAAM

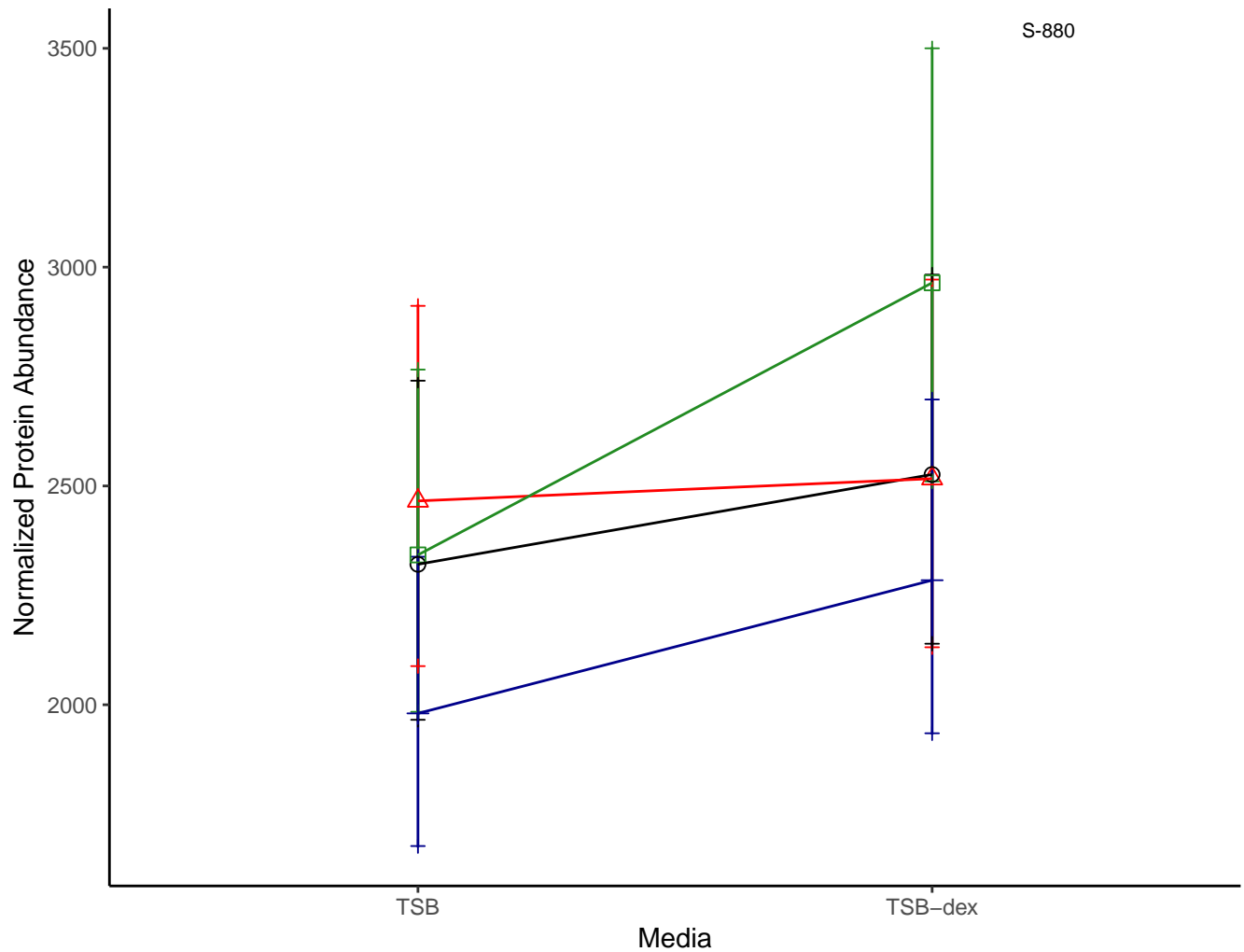
S-879



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# SBI\_STAAM

S-880

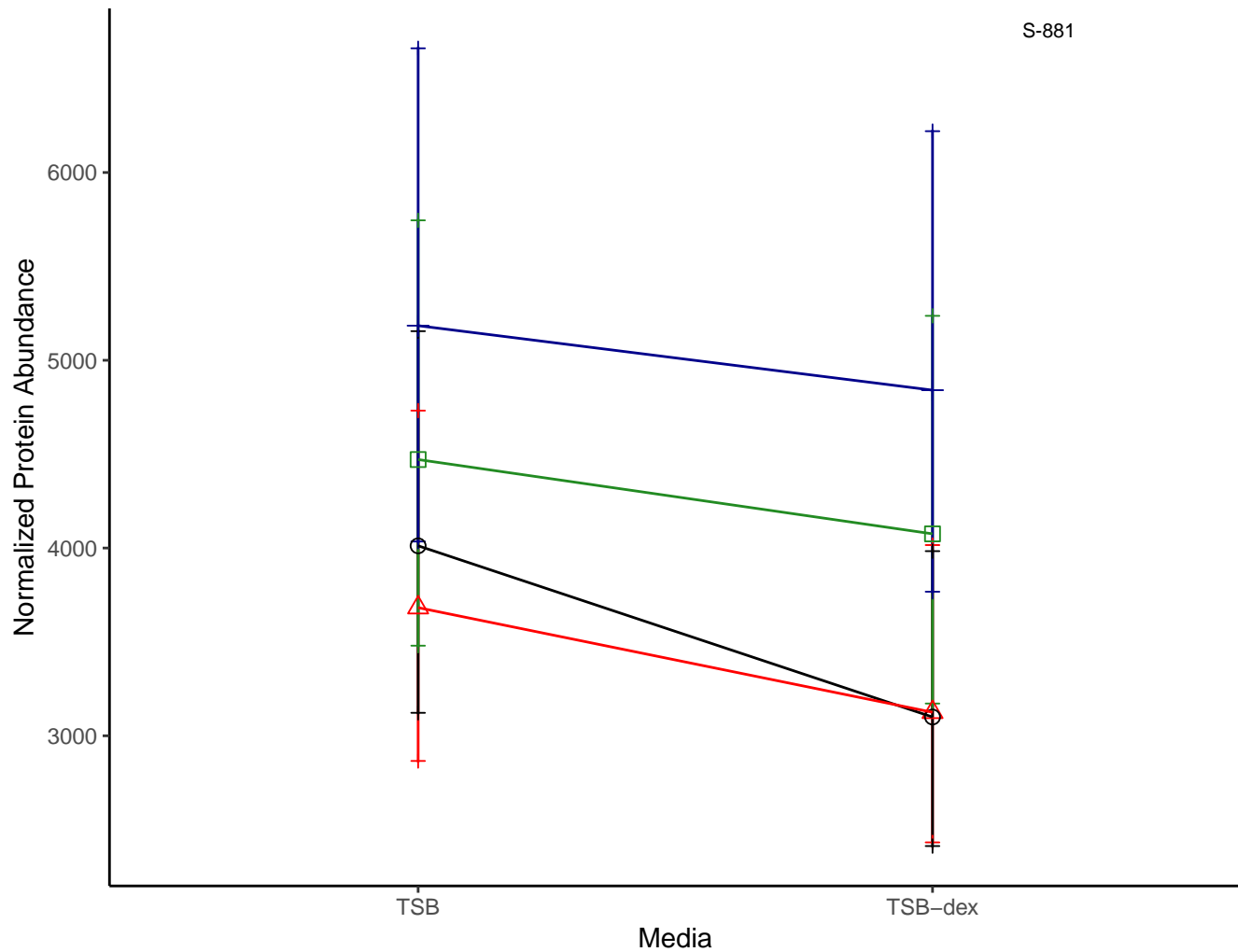


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SCPA\_STAAM

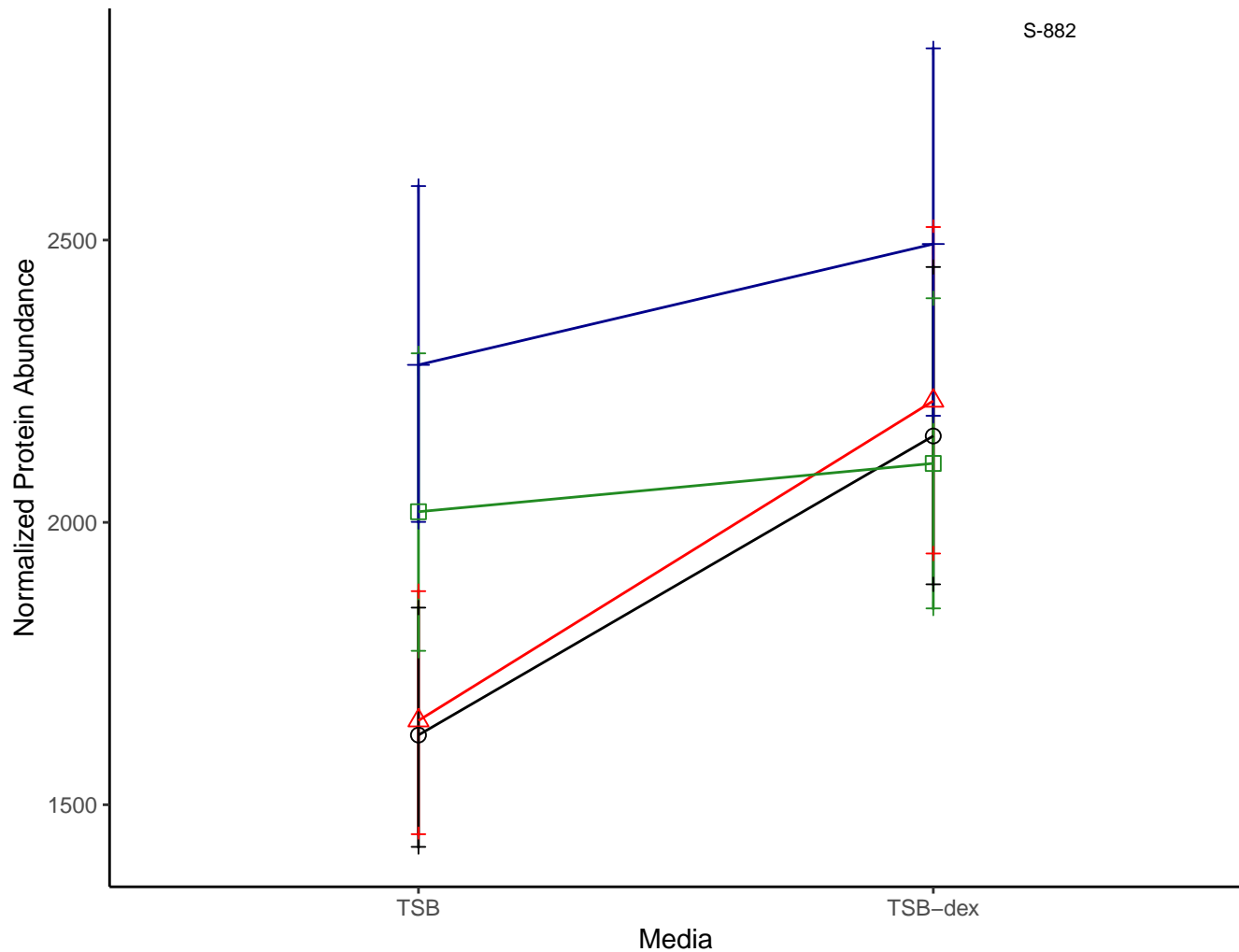
S-881



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SCPB\_STAAM

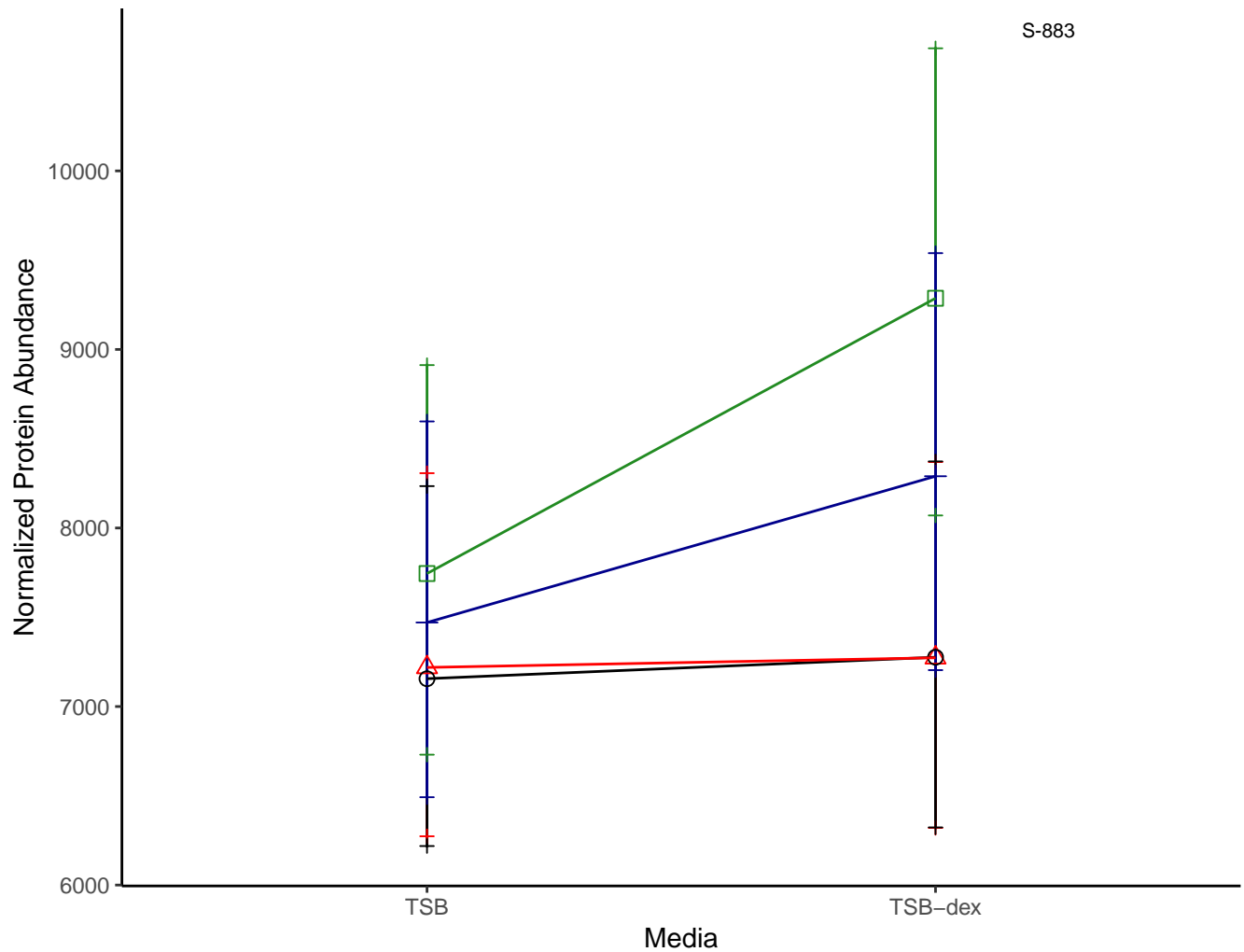
S-882



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SECA1\_STAAM

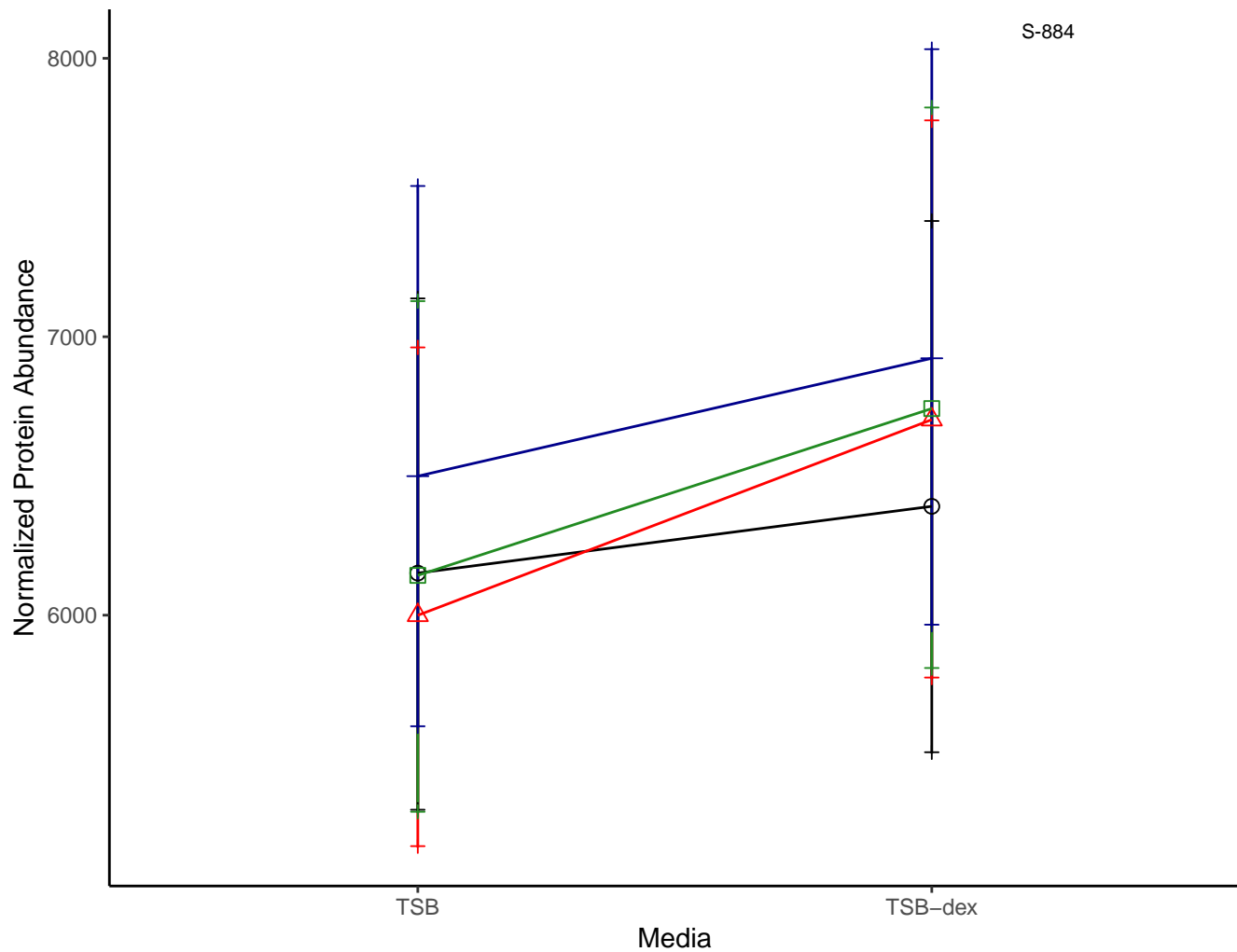
S-883



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SIGA\_STAAM

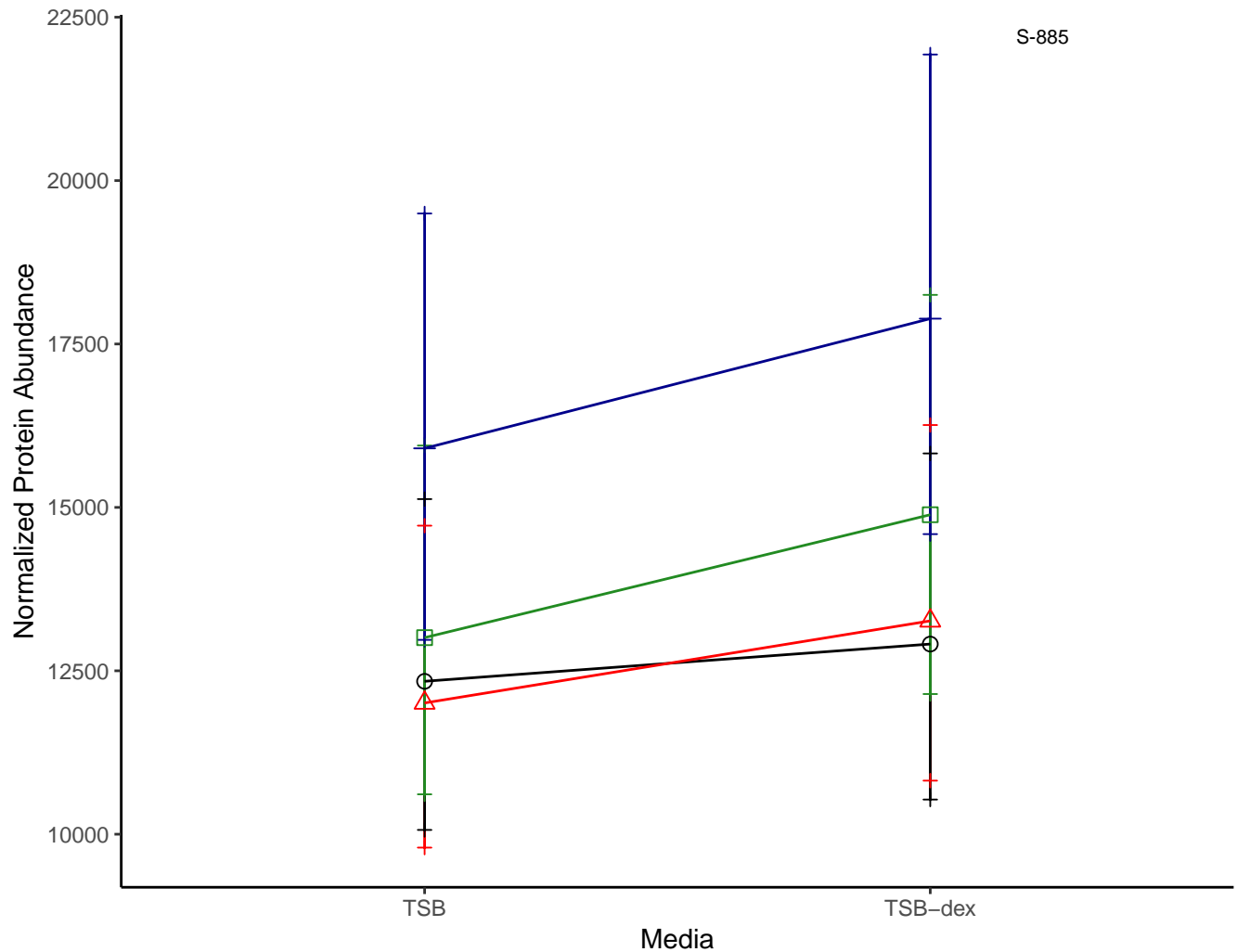
S-884



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SODM1\_STAAM

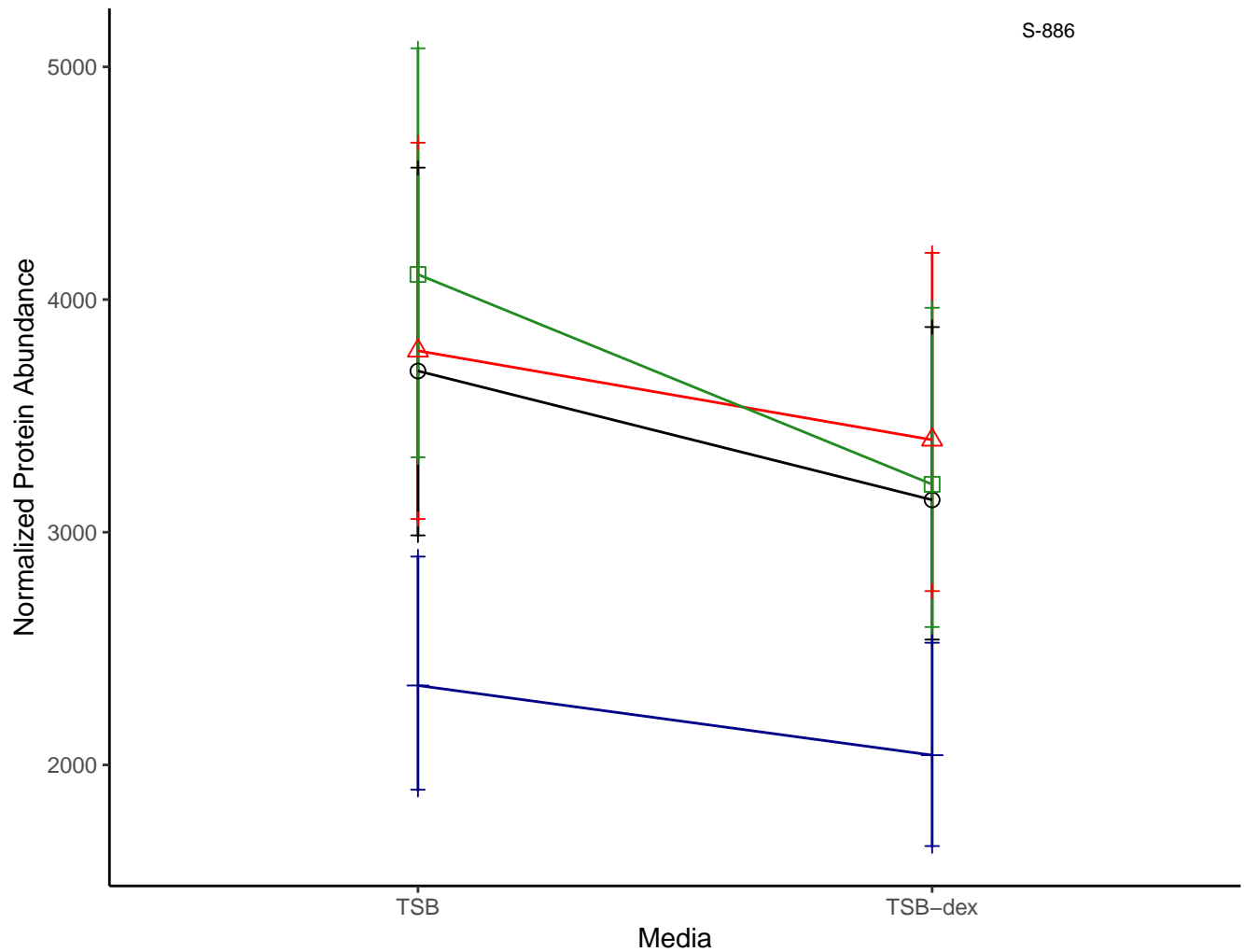
S-885



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SODM2\_STAAM

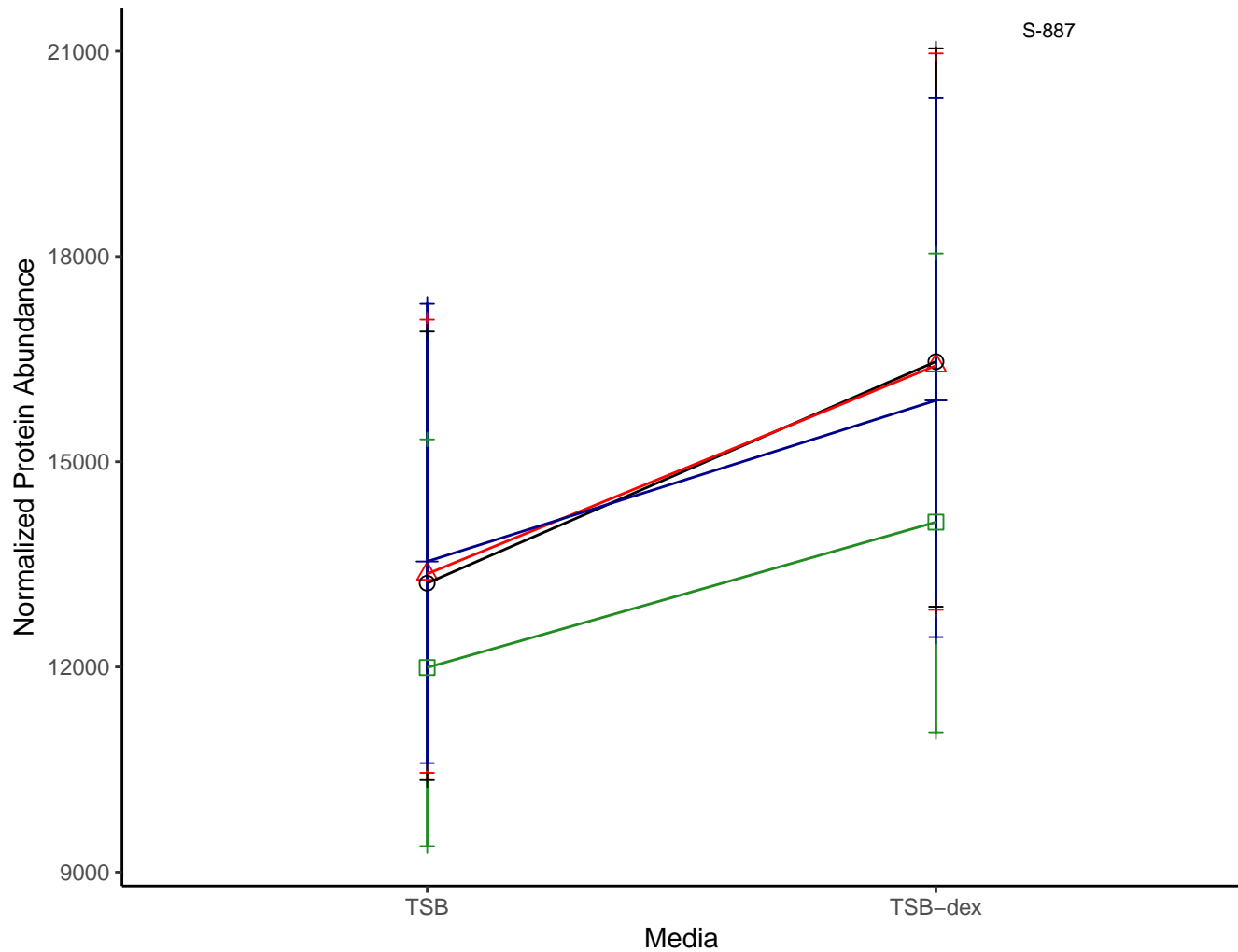
S-886



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SP5G\_STAAM

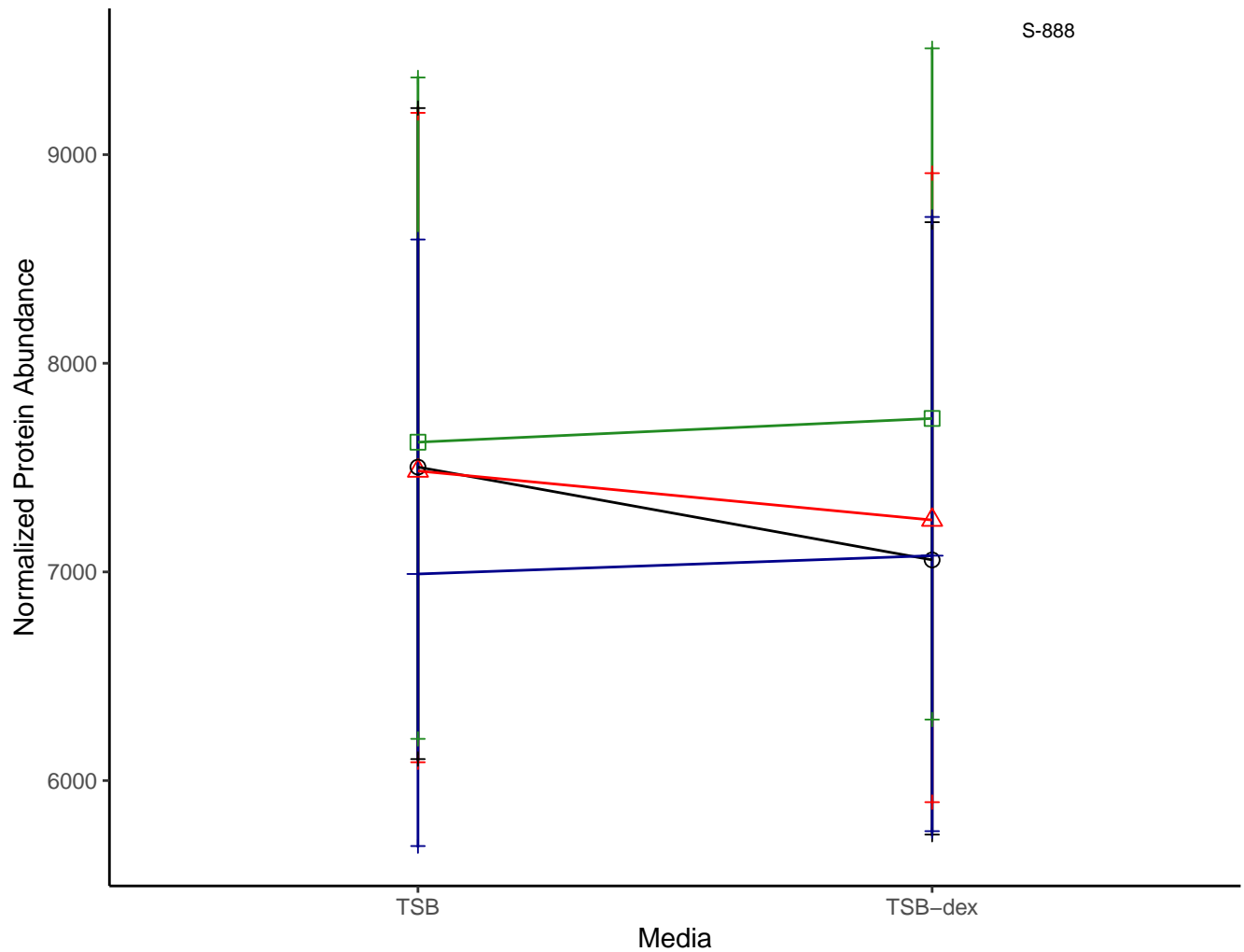
S-887



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SPA\_STAAM

S-888

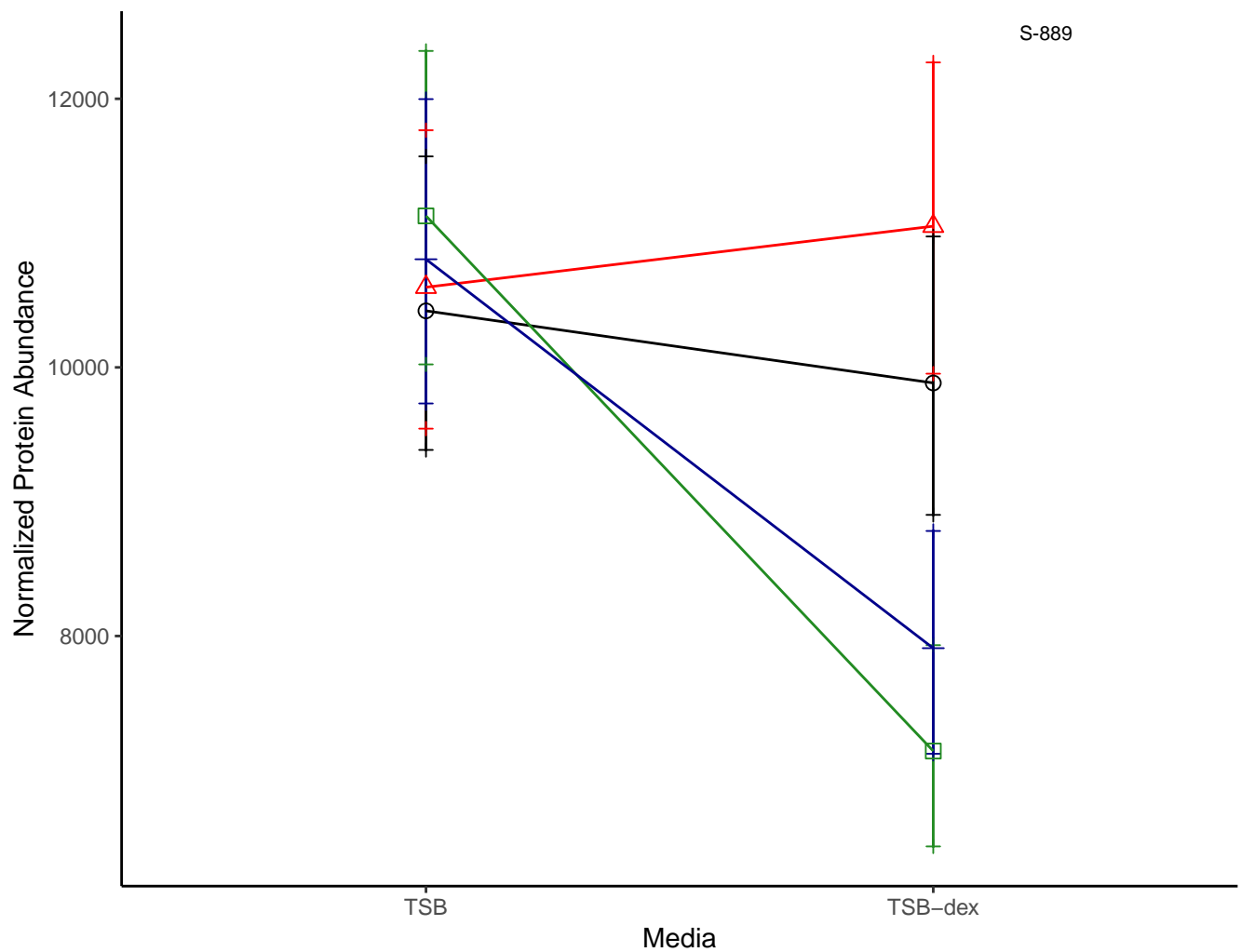


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# SPLD\_STAAM

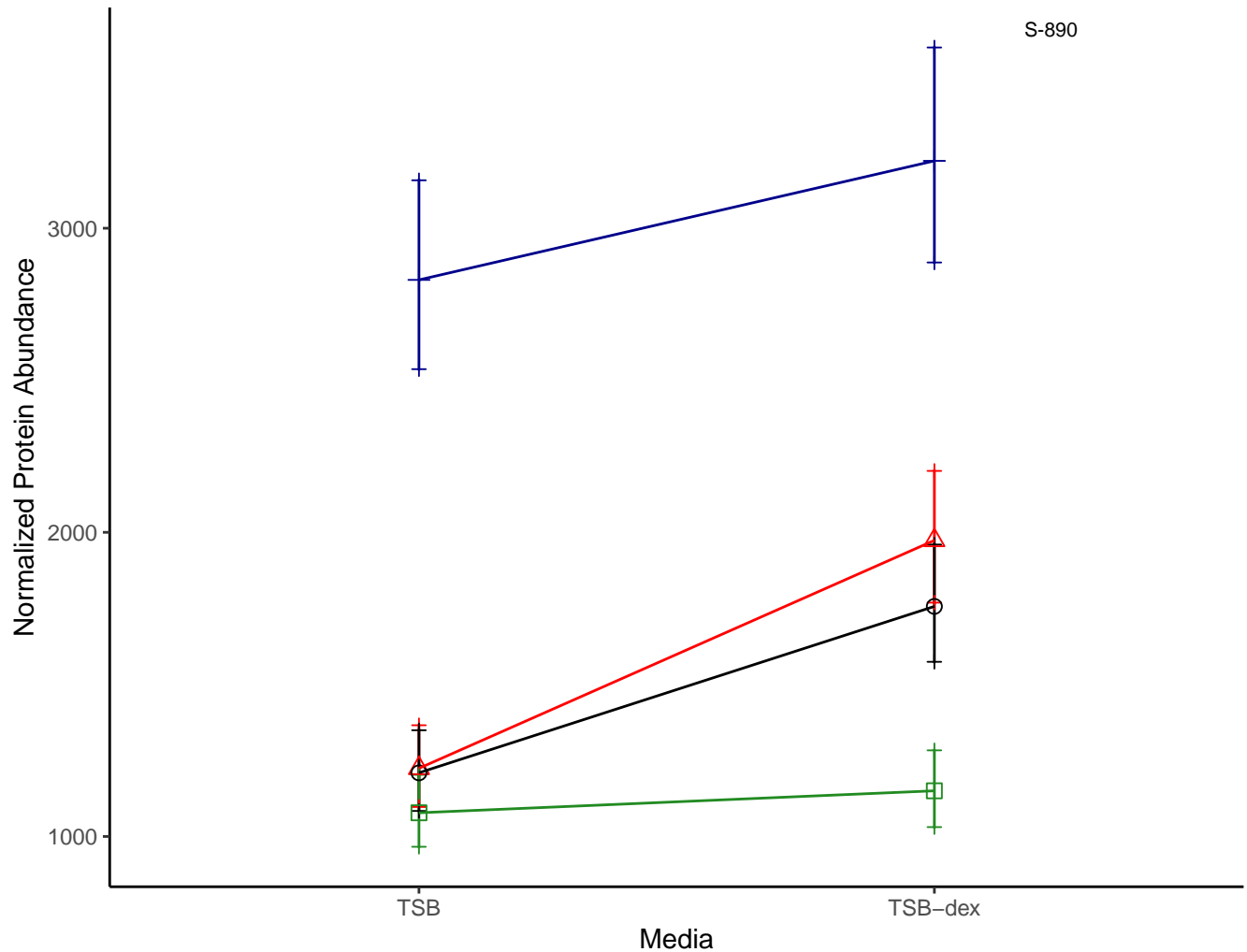
S-889



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SPX\_STAAM

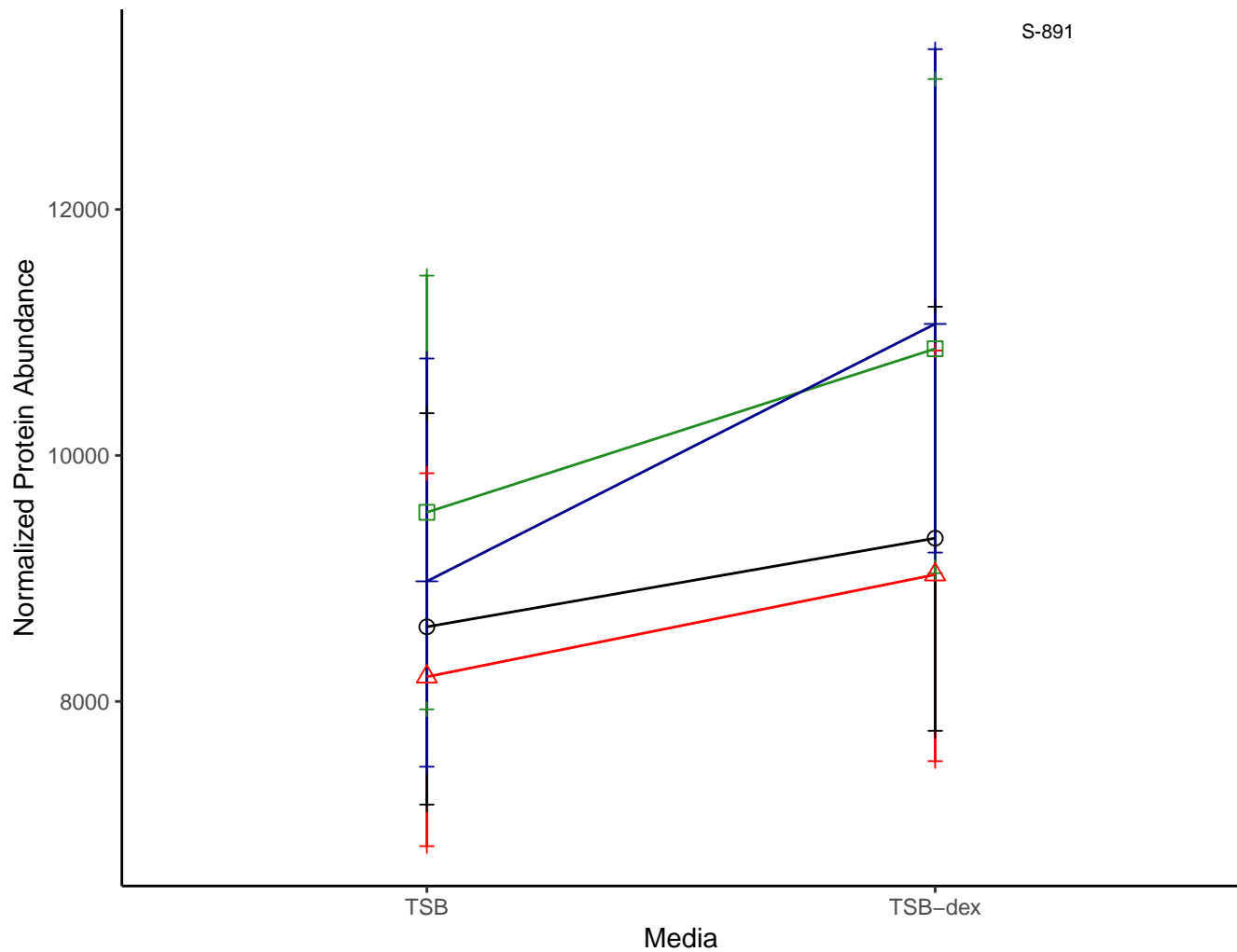
S-890



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SRRRA\_STAAM

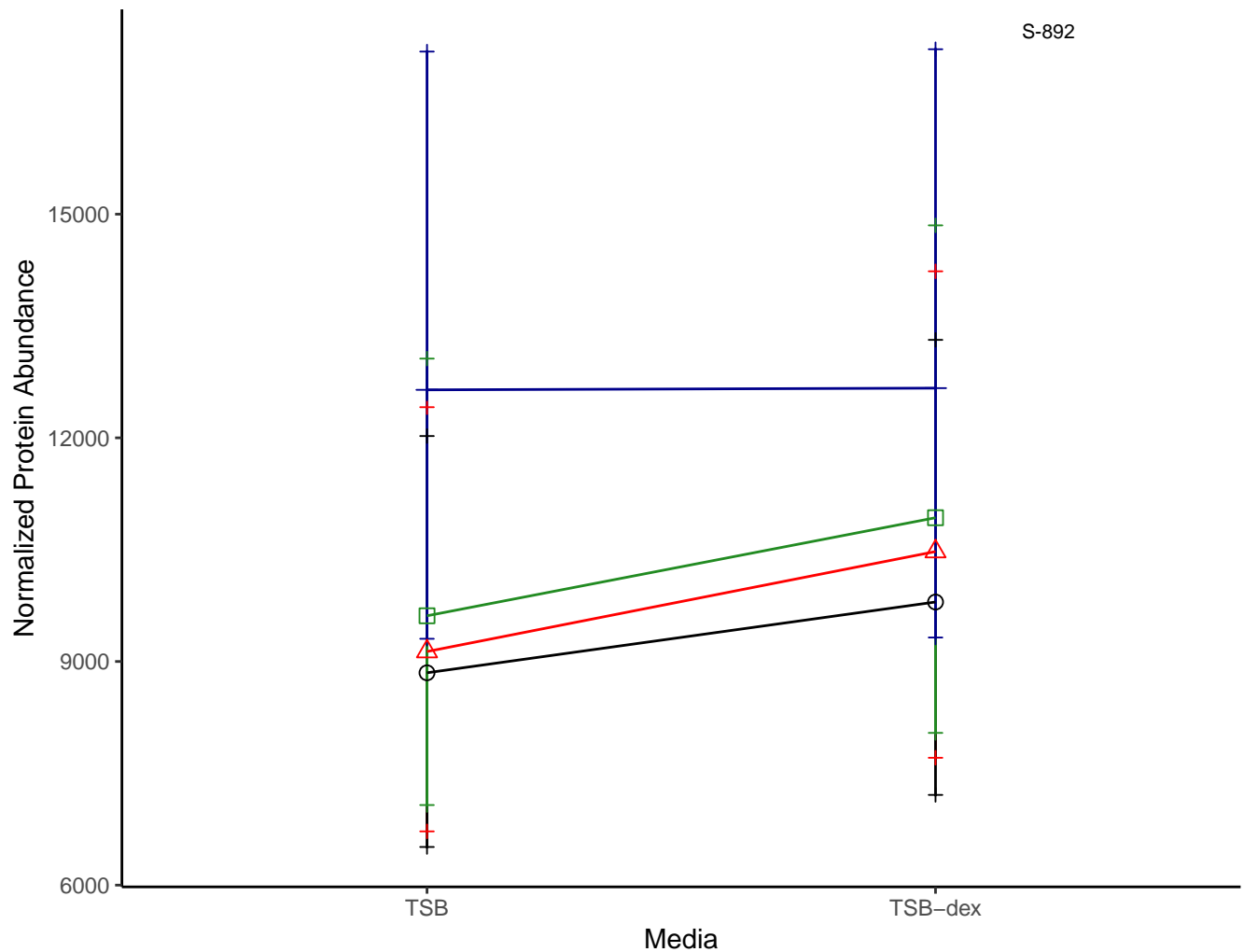
S-891



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SSAA2\_STAAM

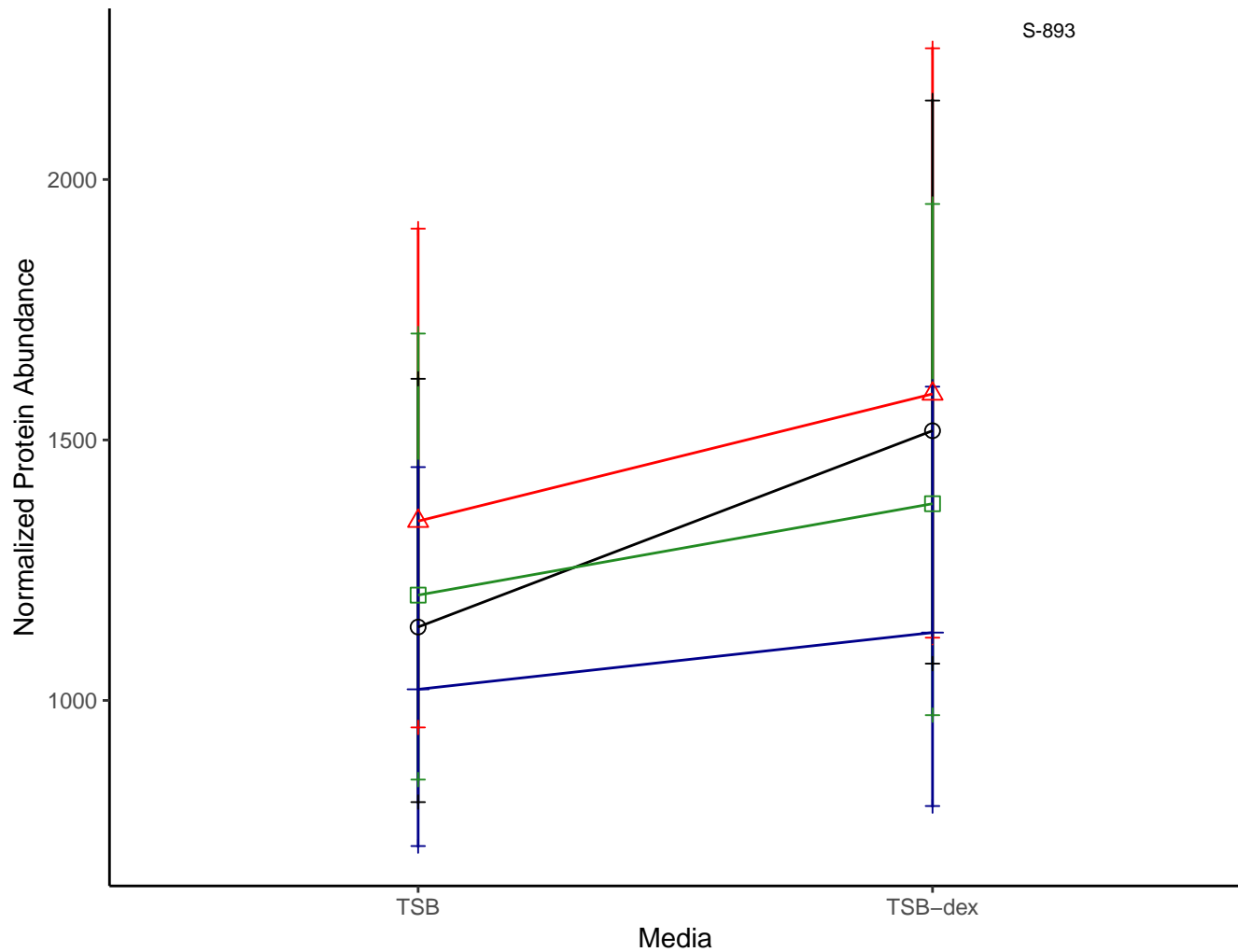
S-892



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SSB1\_STAAM

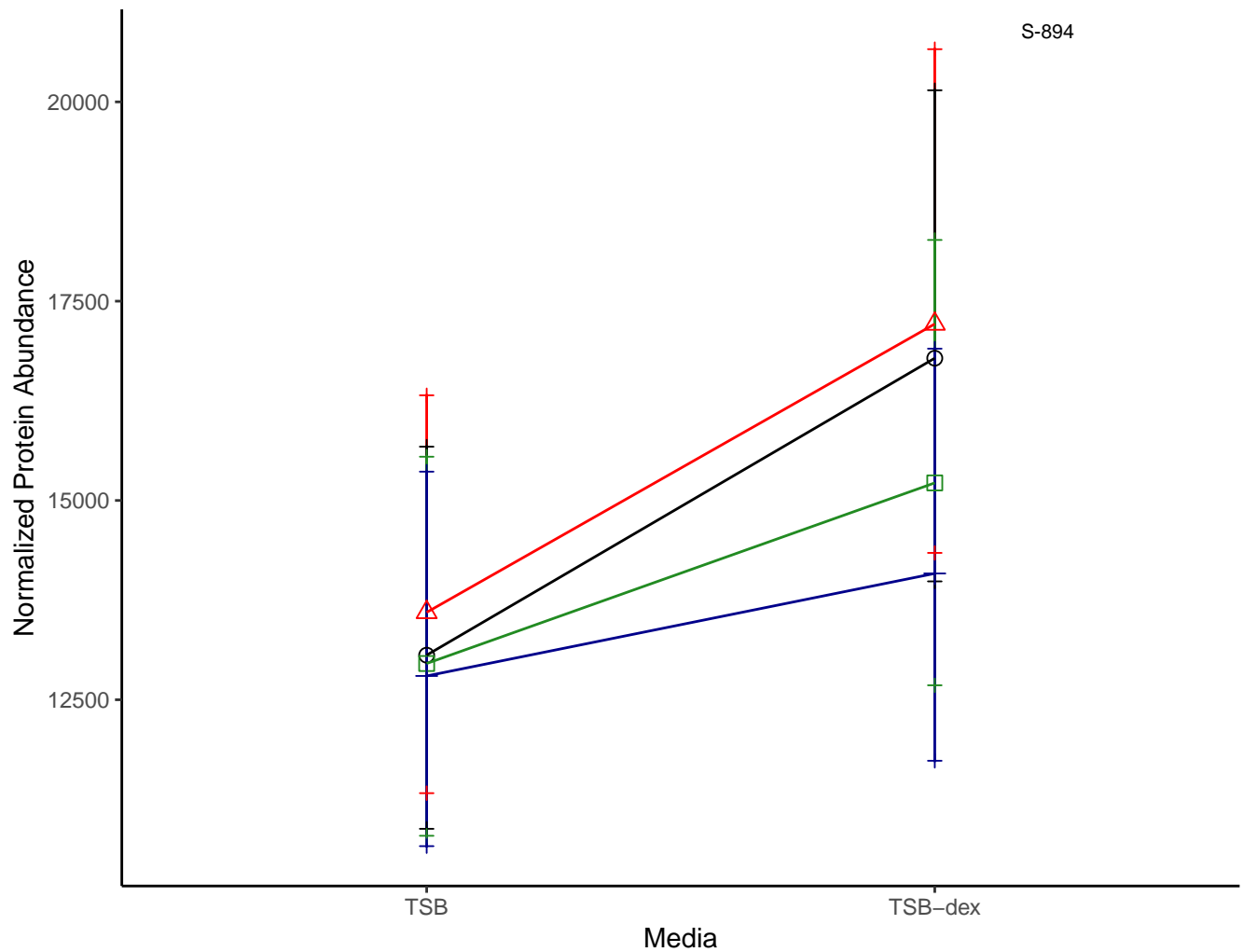
S-893



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SSB2\_STAAM

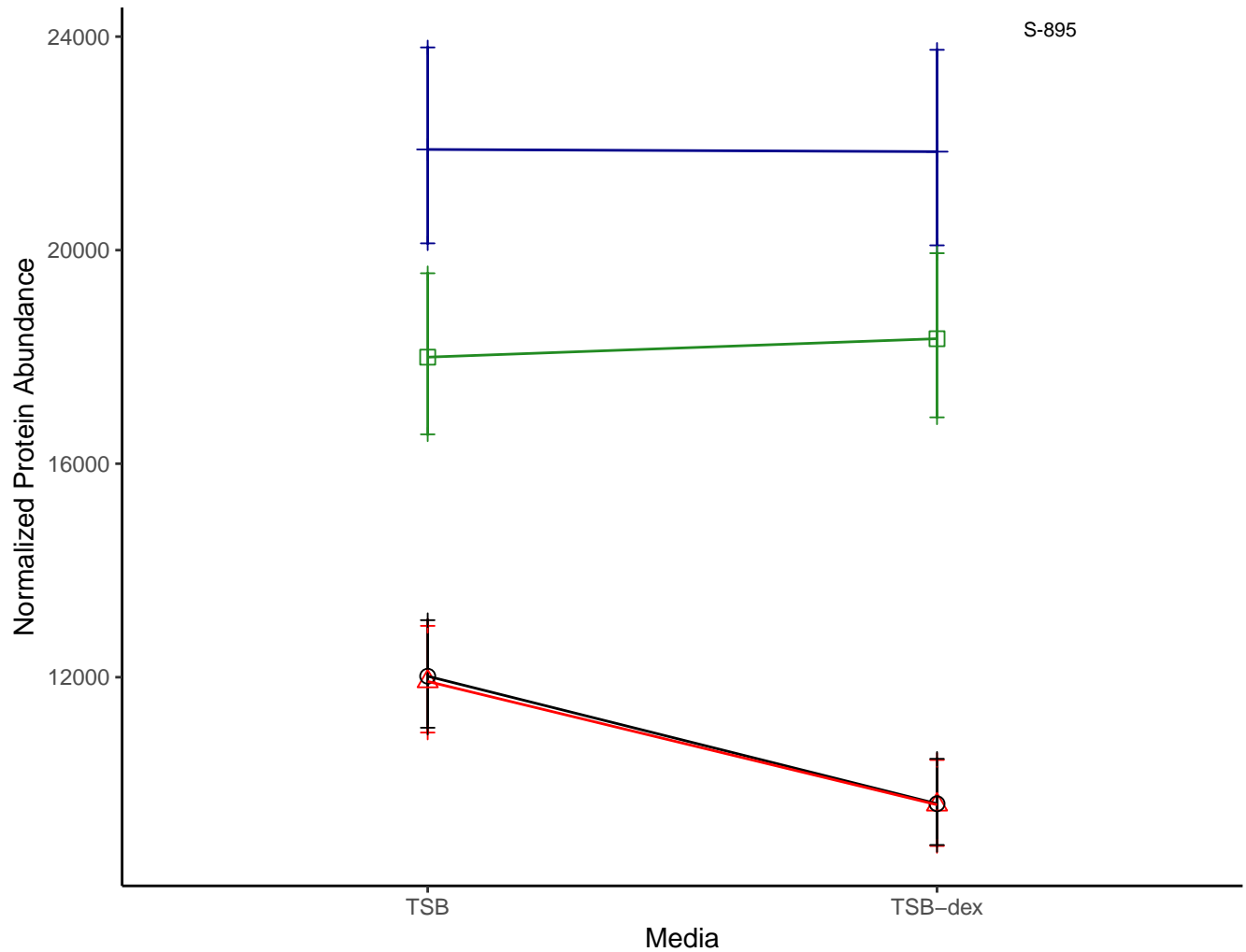
S-894



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# SUCC\_STAAM

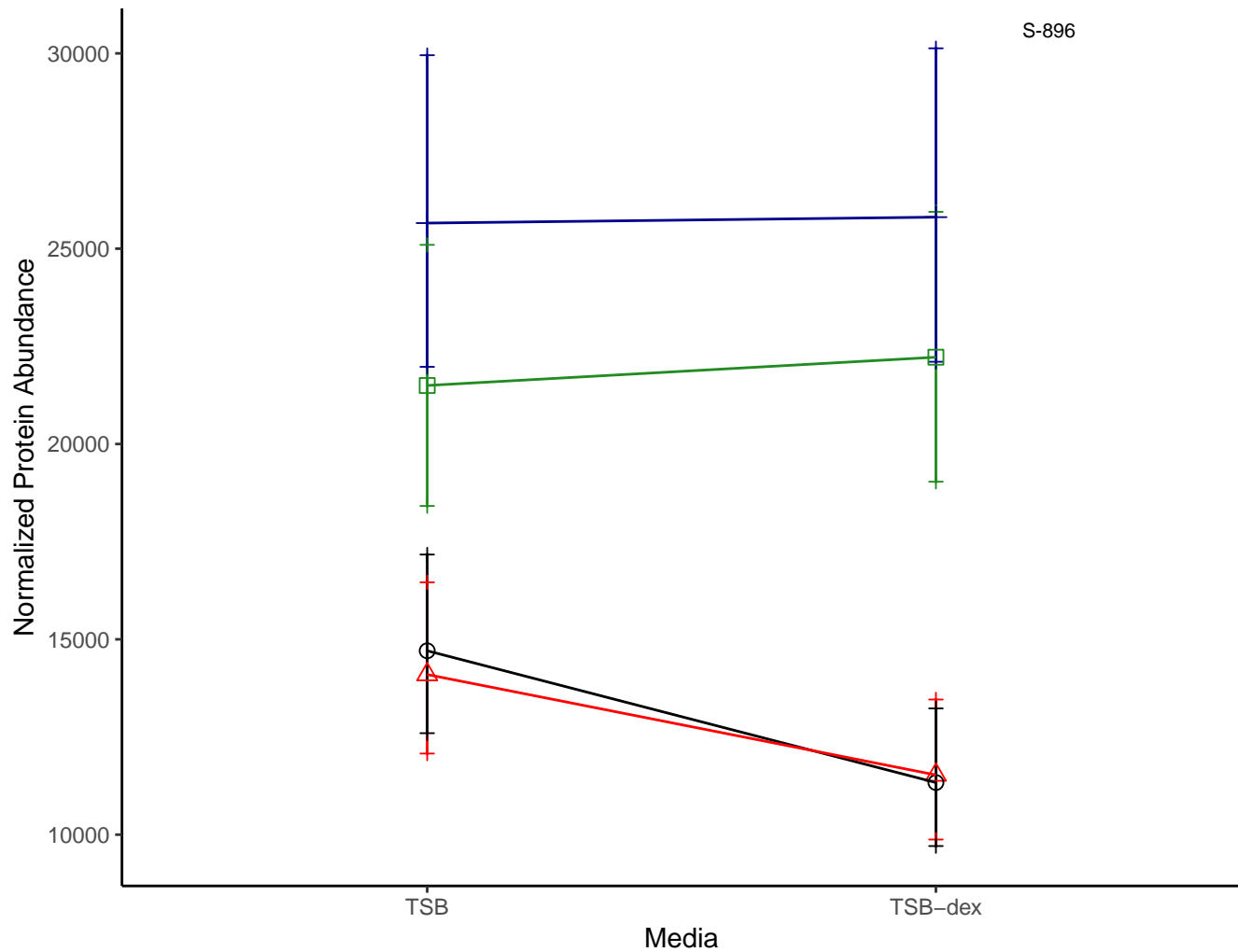
S-895



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SUCD\_STAAM

S-896

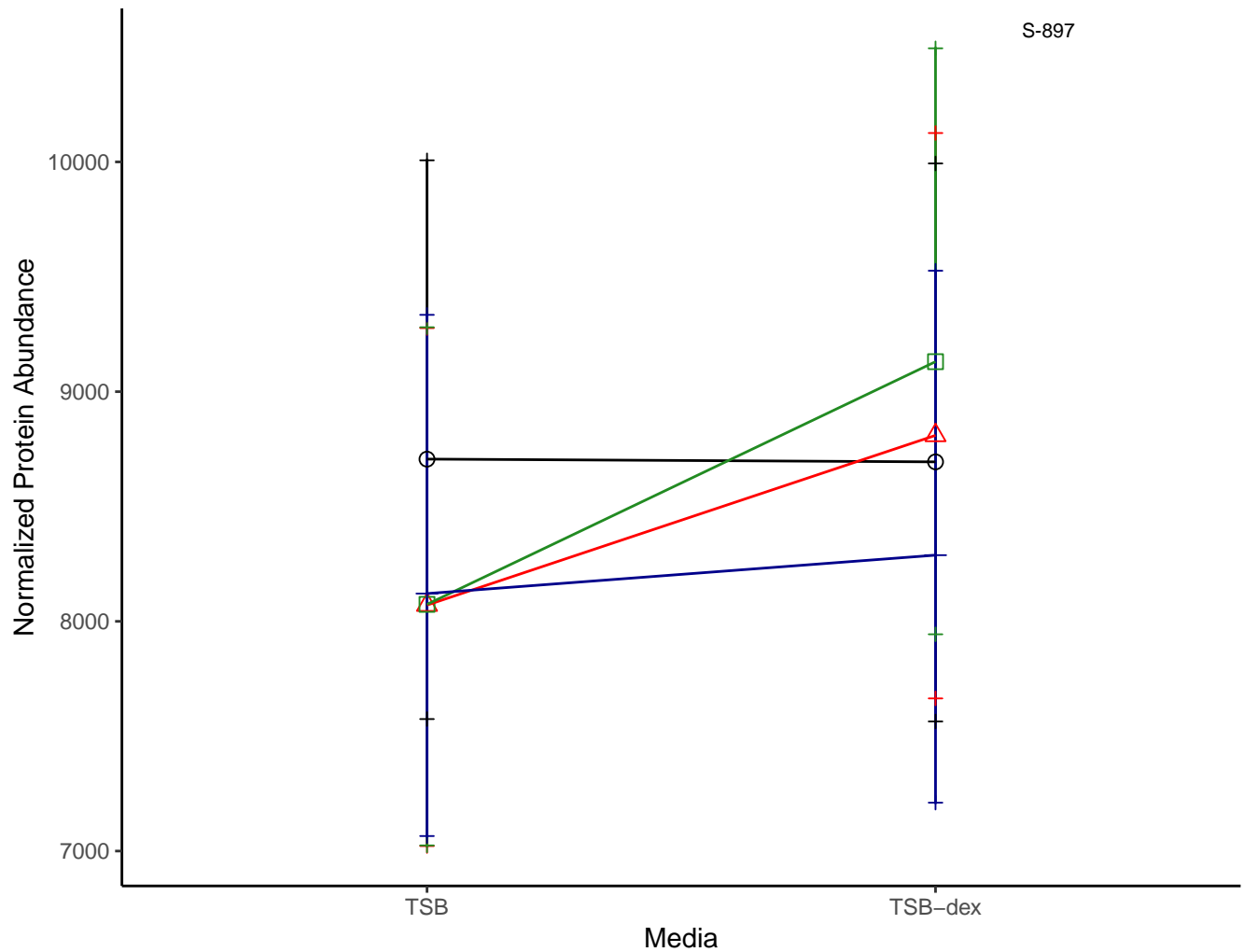


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SYA\_STAAM

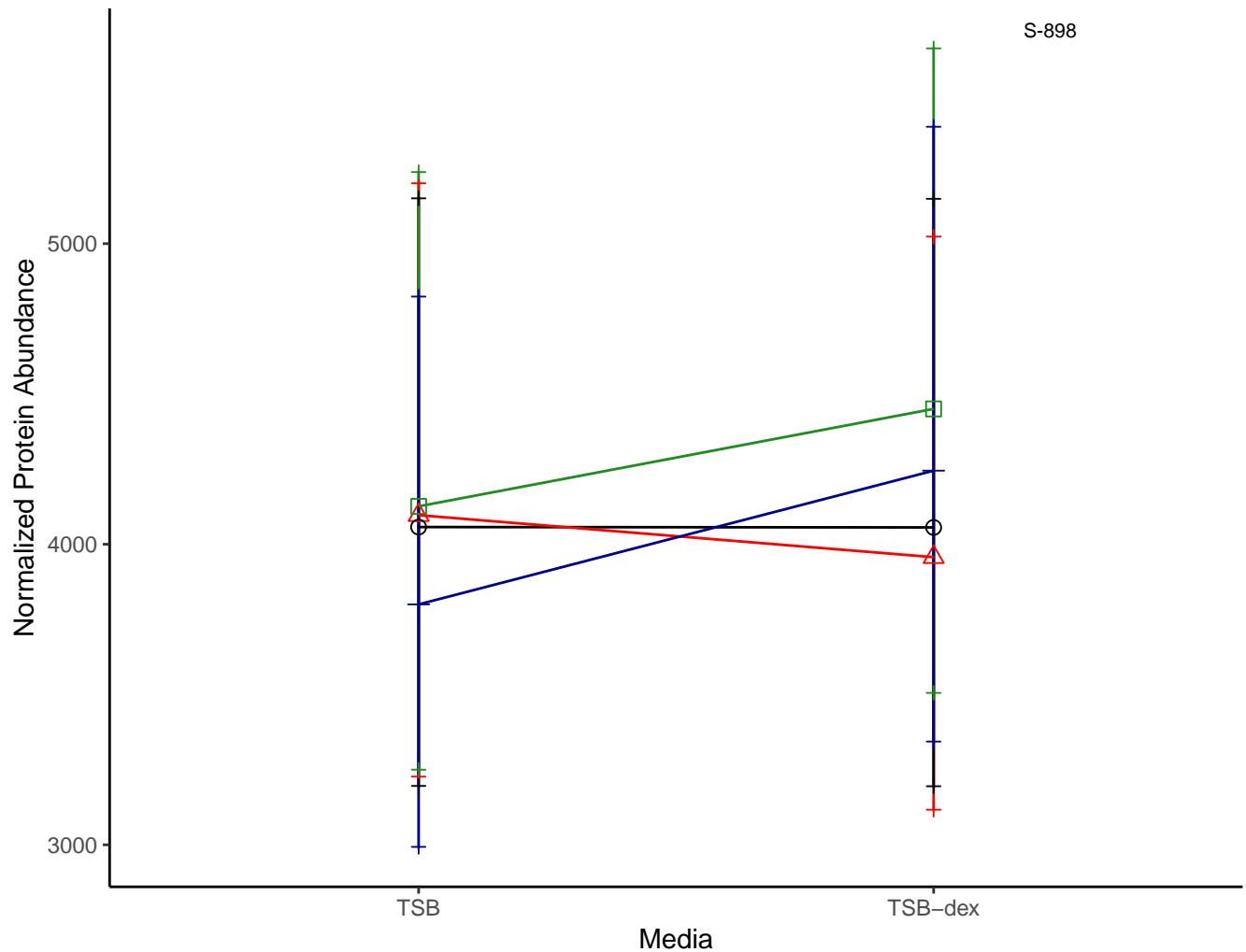
S-897



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYC\_STAAM

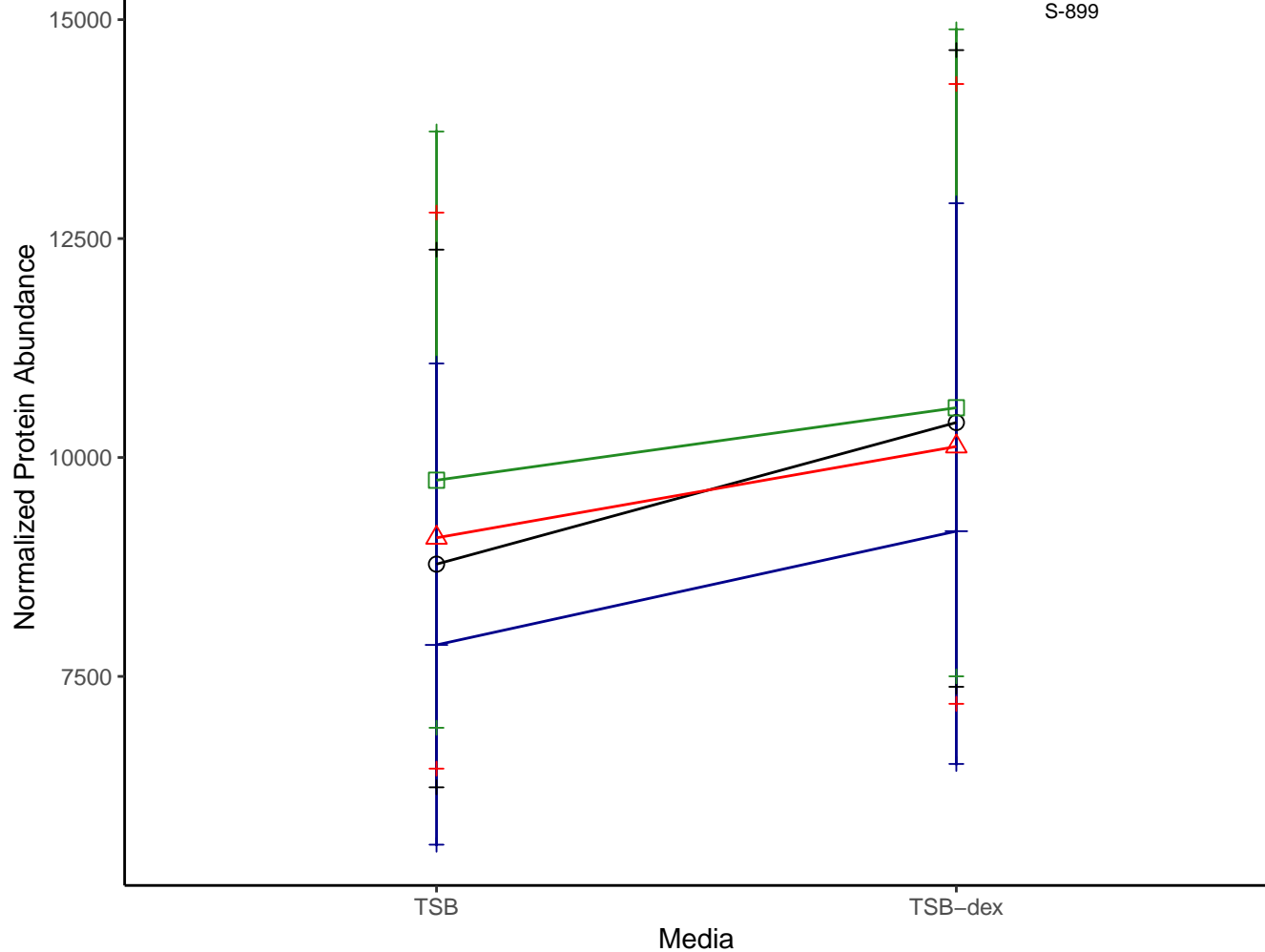
S-898



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYD\_STAAM

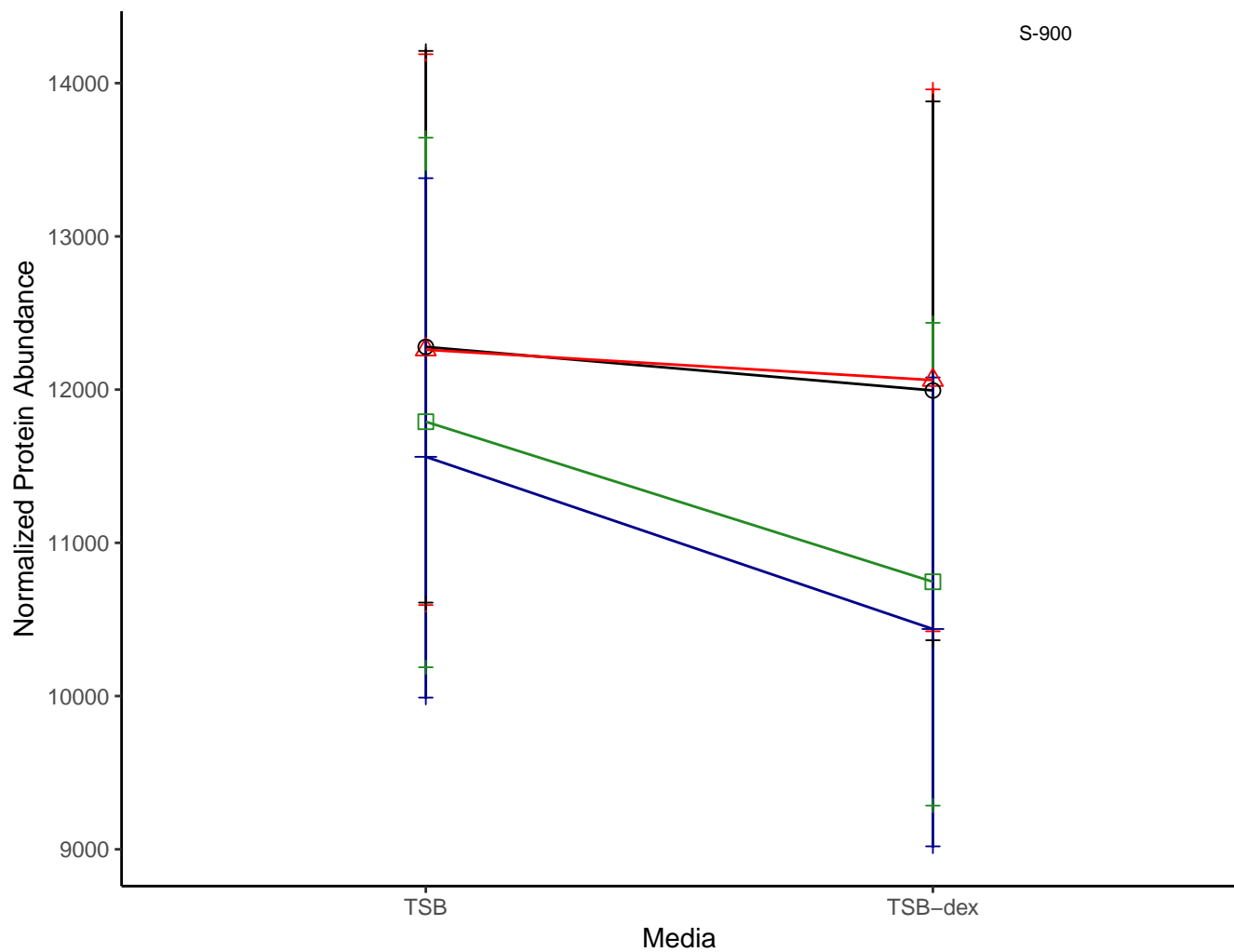
S-899



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYE\_STAAM

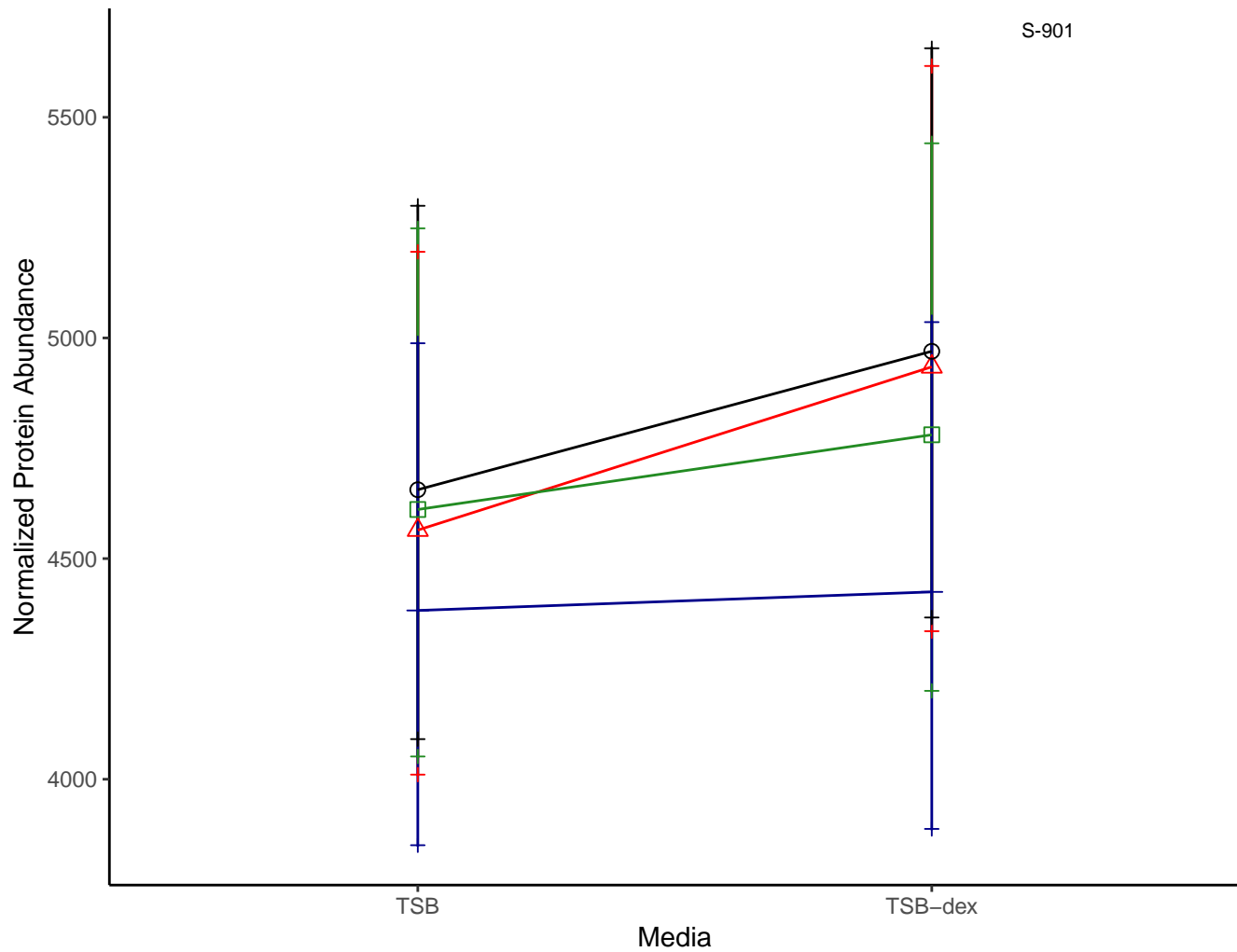
S-900



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYFB\_STAAM

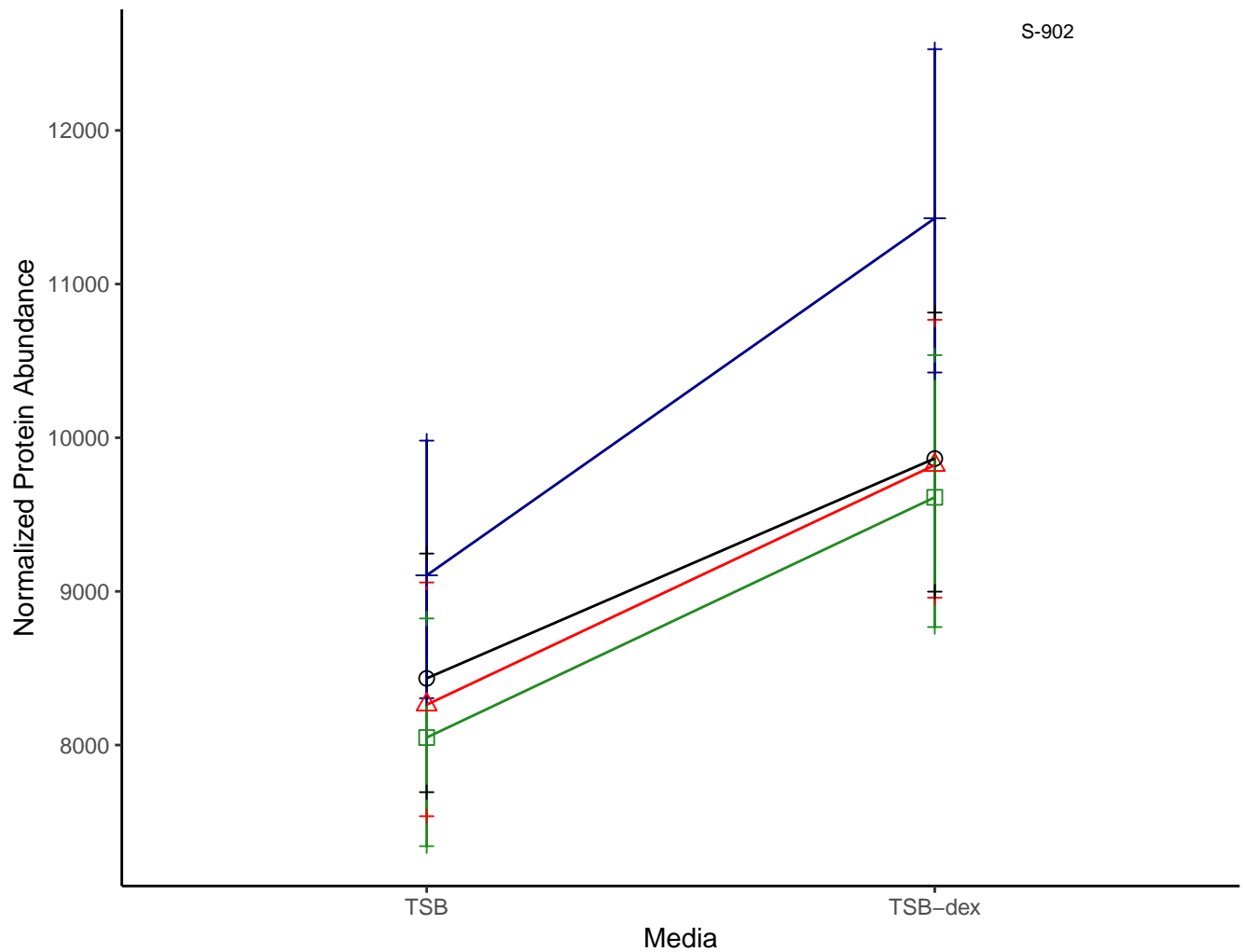
S-901



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYG\_STAAM

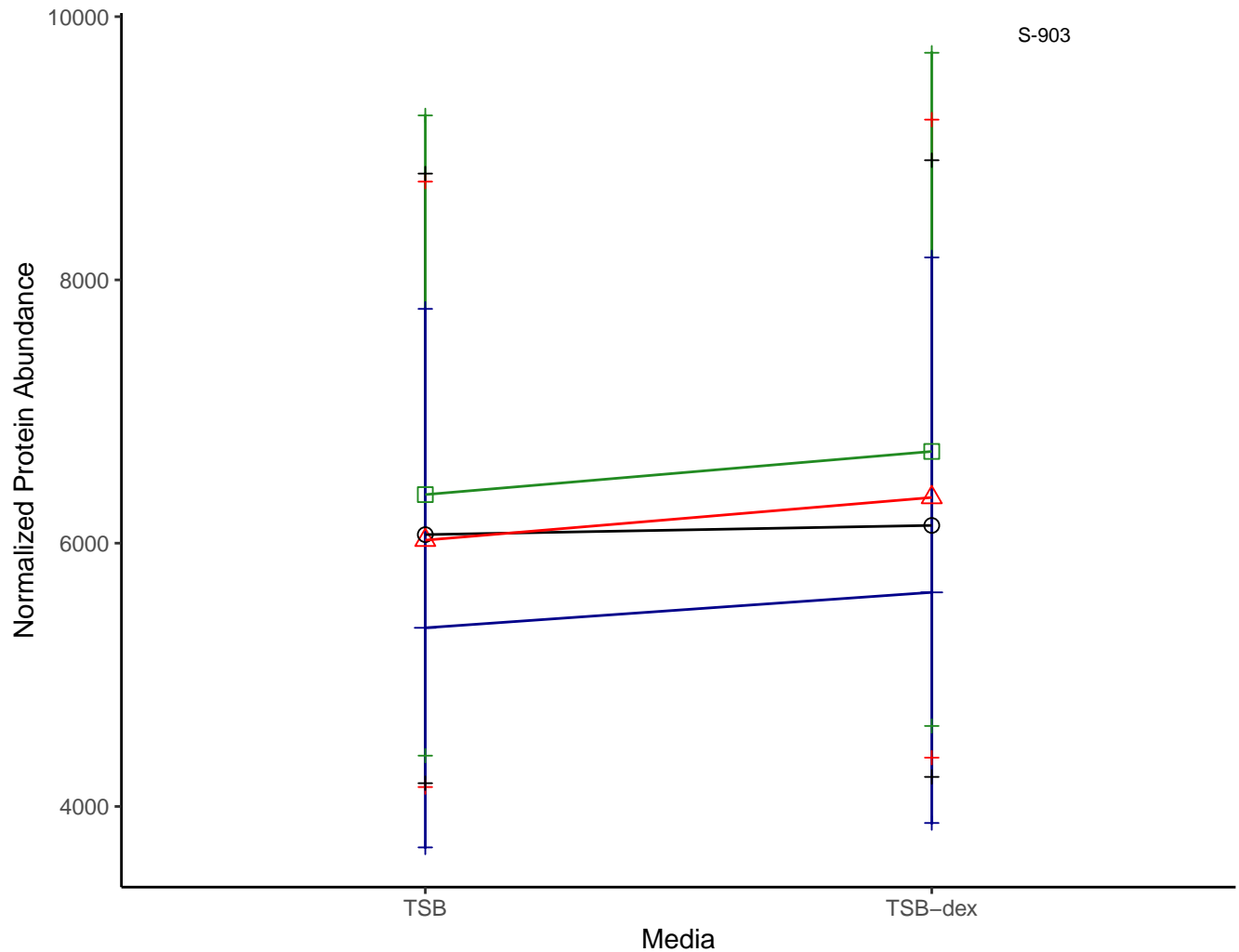
S-902



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYH\_STAAM

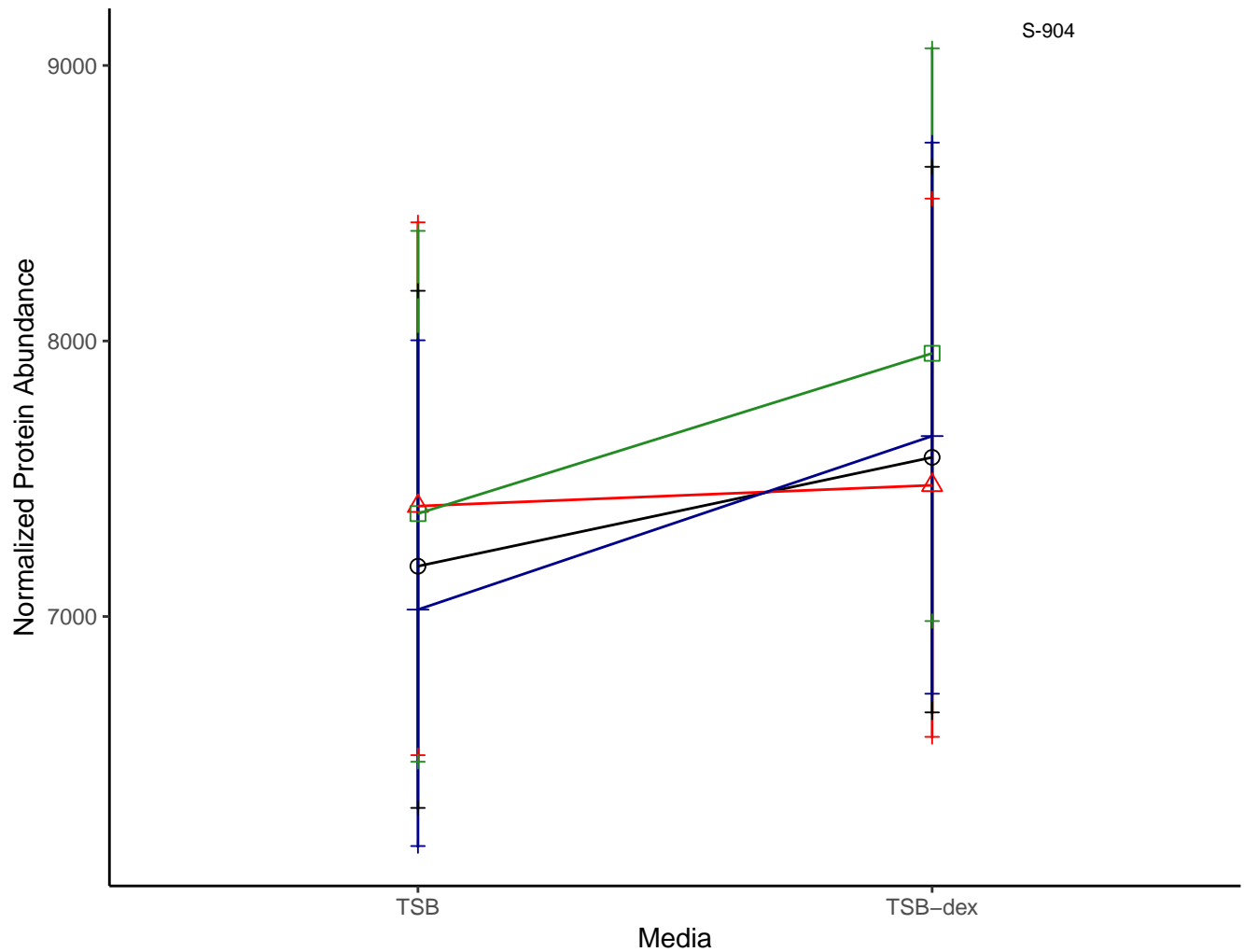
S-903



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYI\_STAAM

S-904

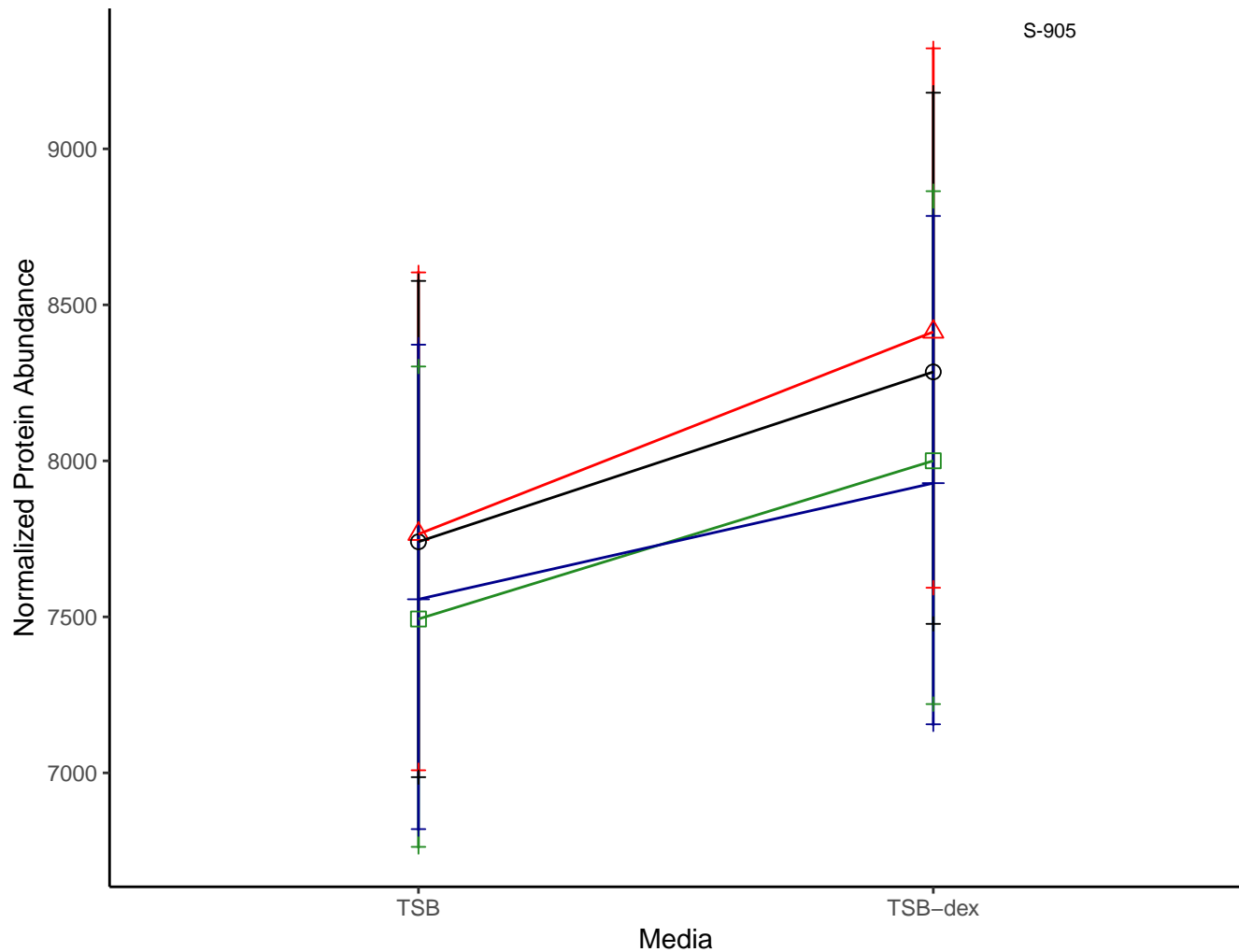


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SYK\_STAAM

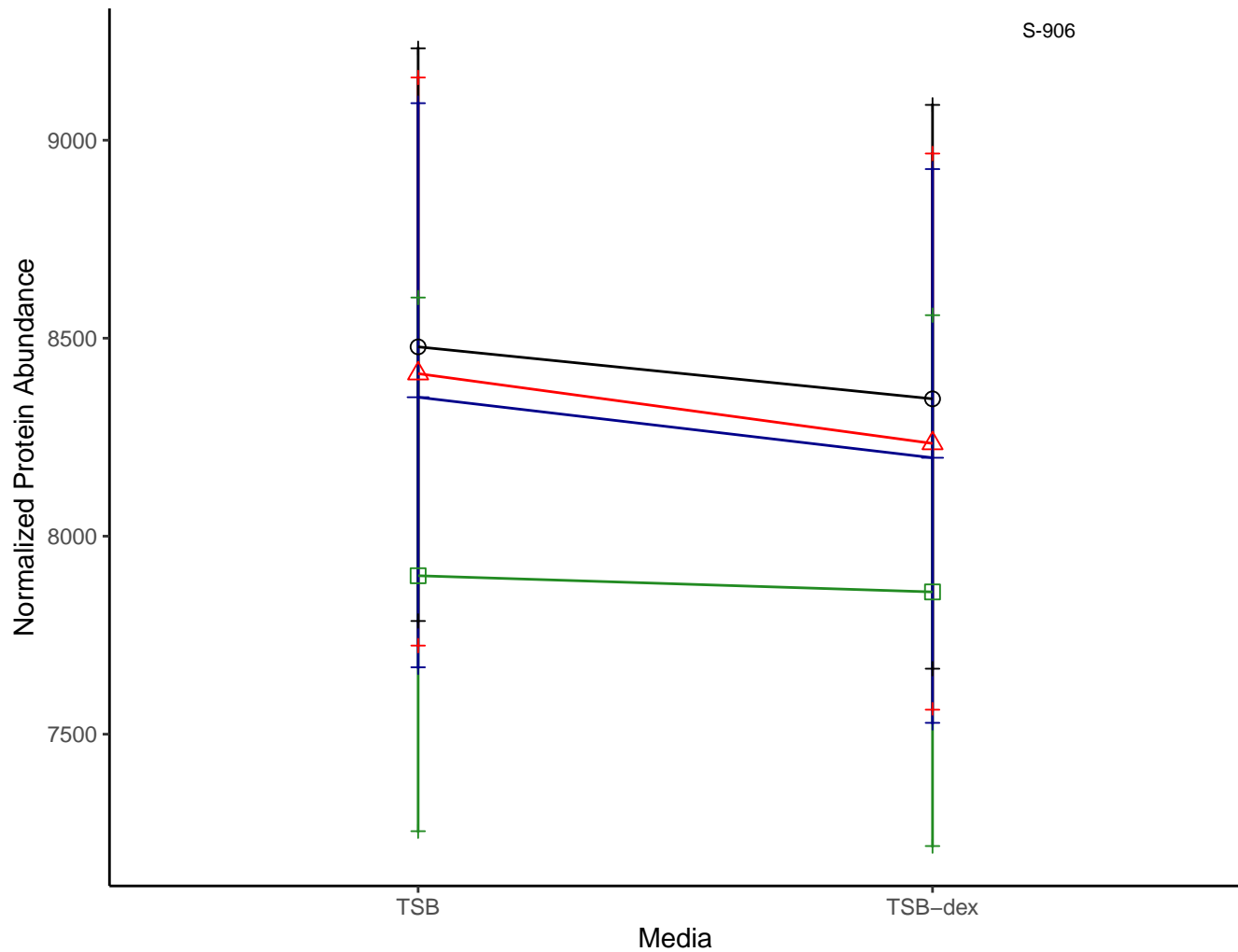
S-905



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYM\_STAAM

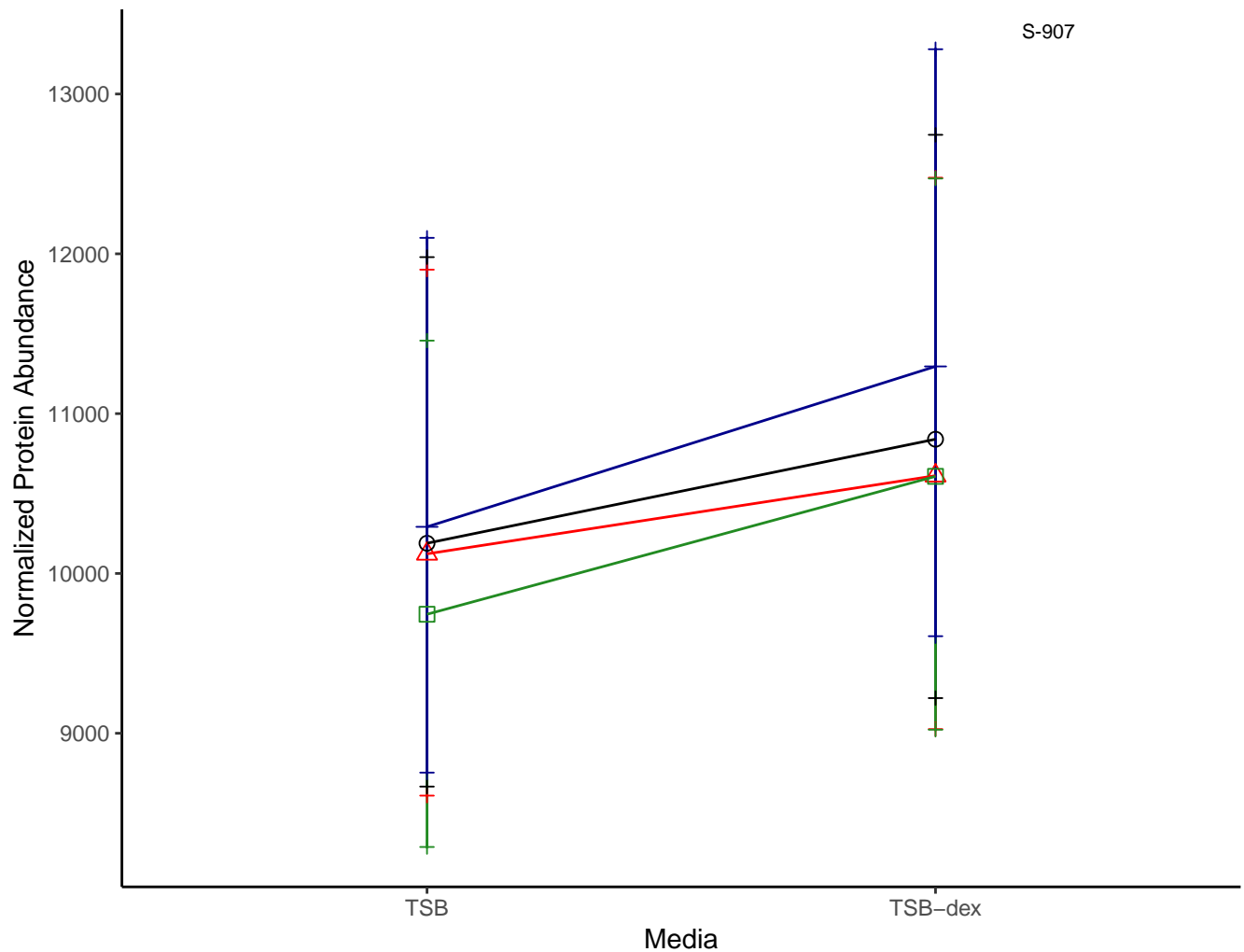
S-906



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYN\_STAAM

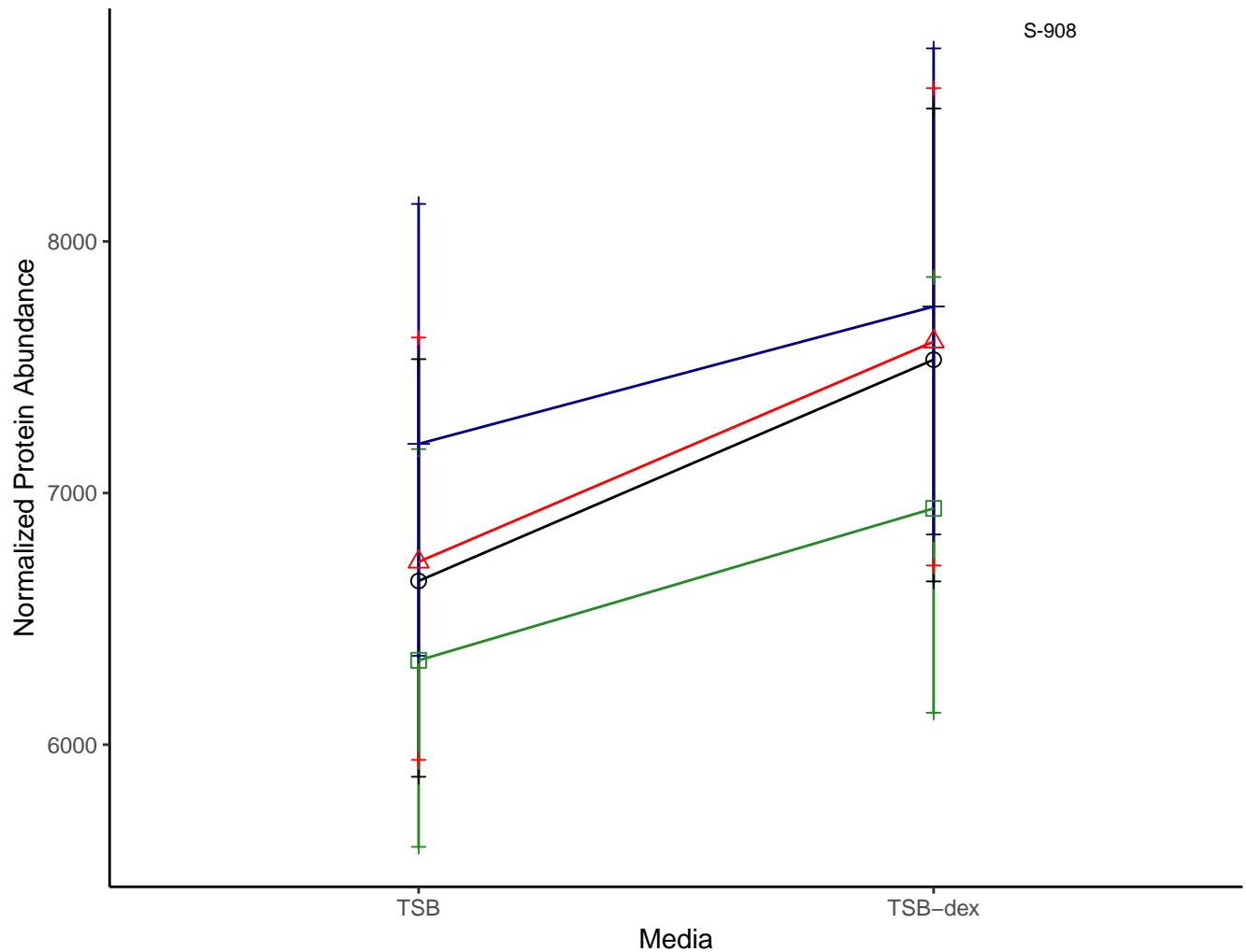
S-907



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYP\_STAAM

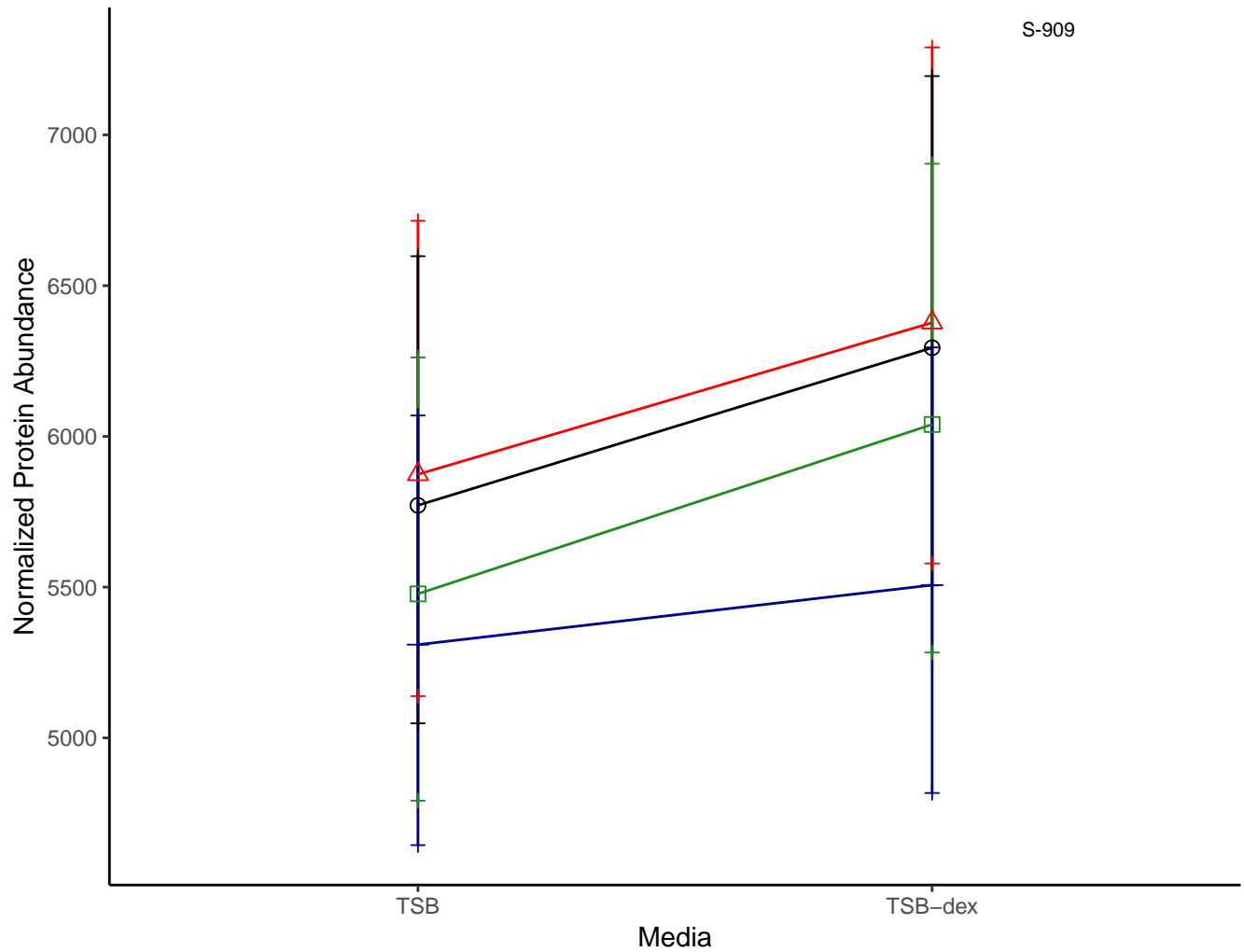
S-908



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYR\_STAAM

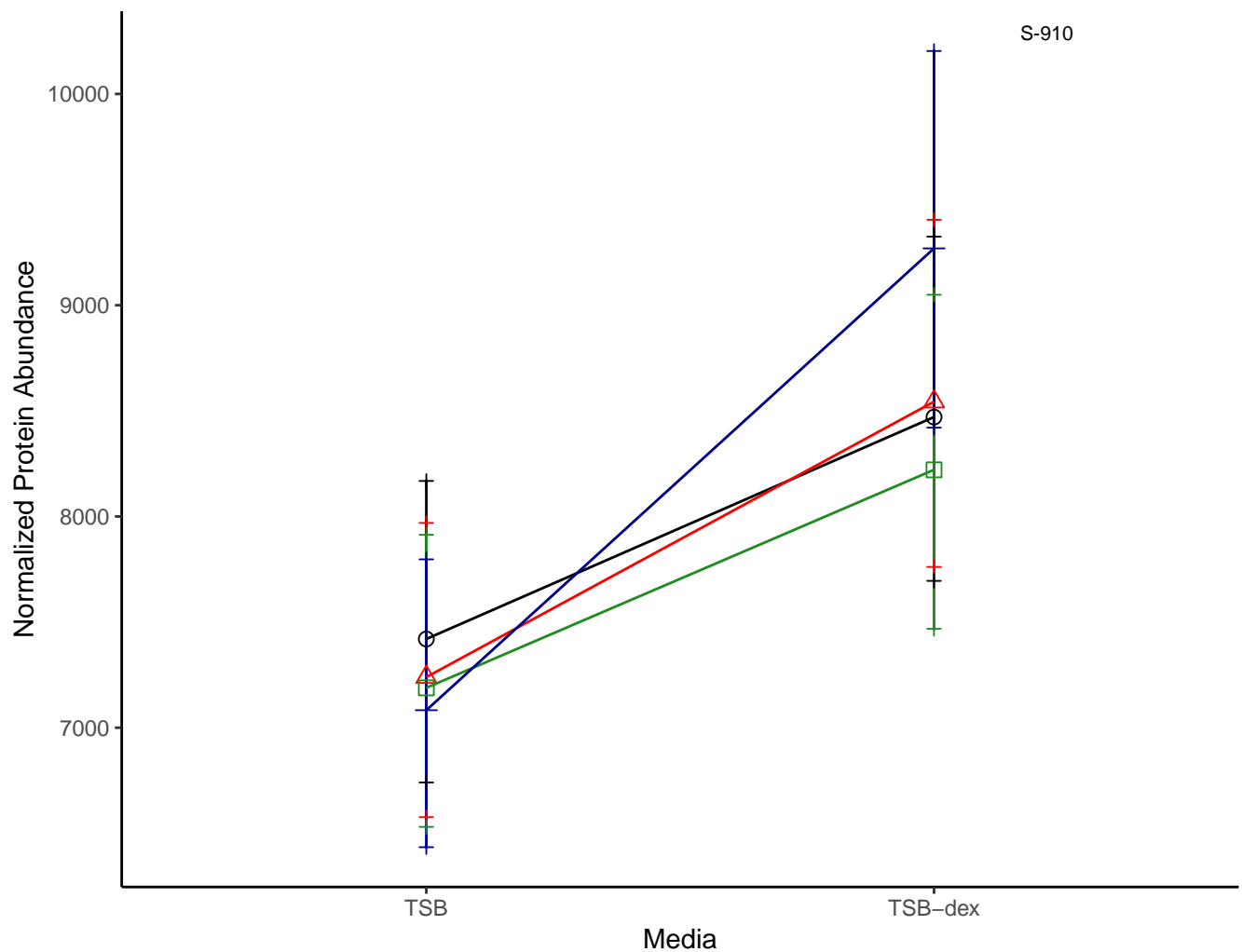
S-909



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYS\_STAAM

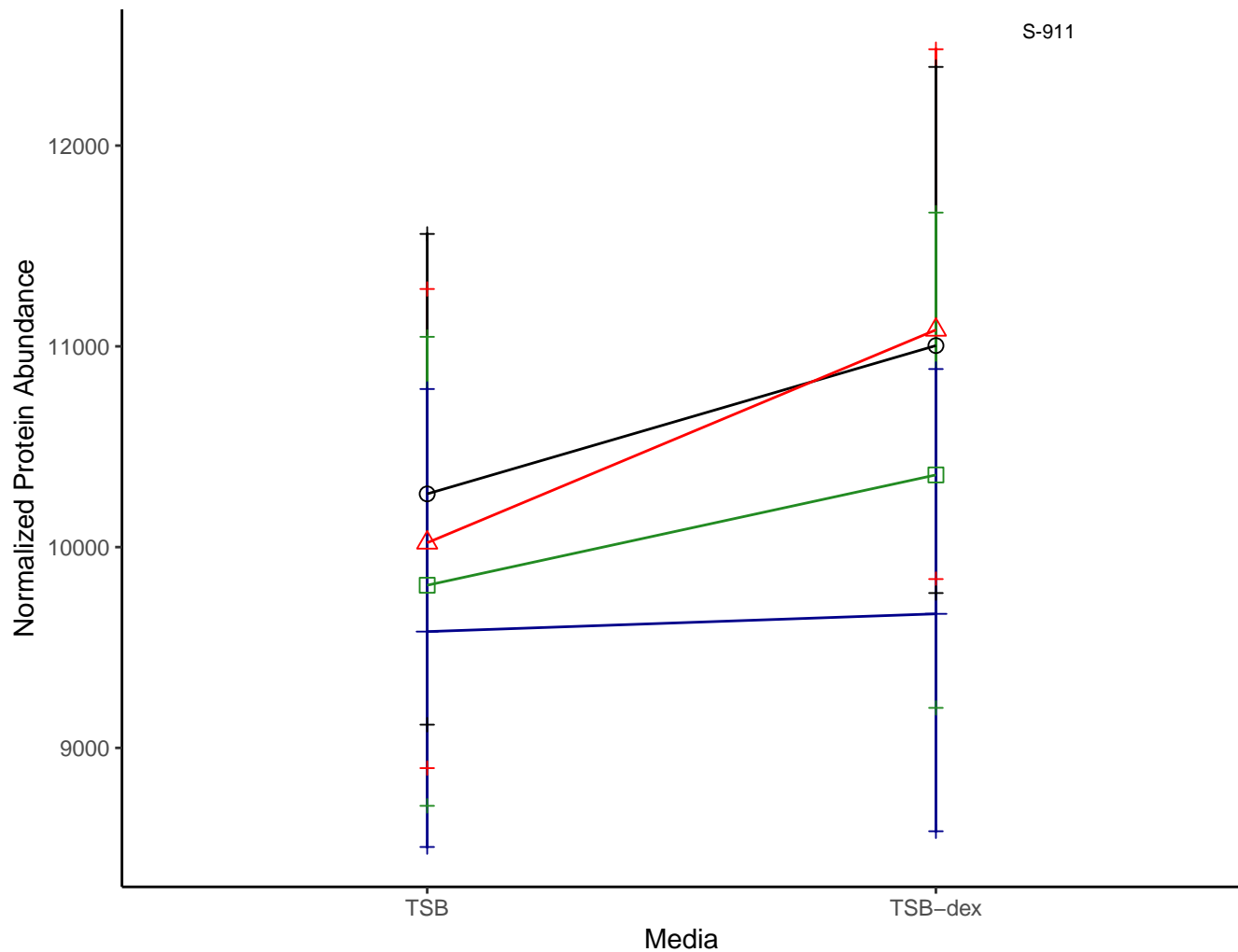
S-910



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYT\_STAAM

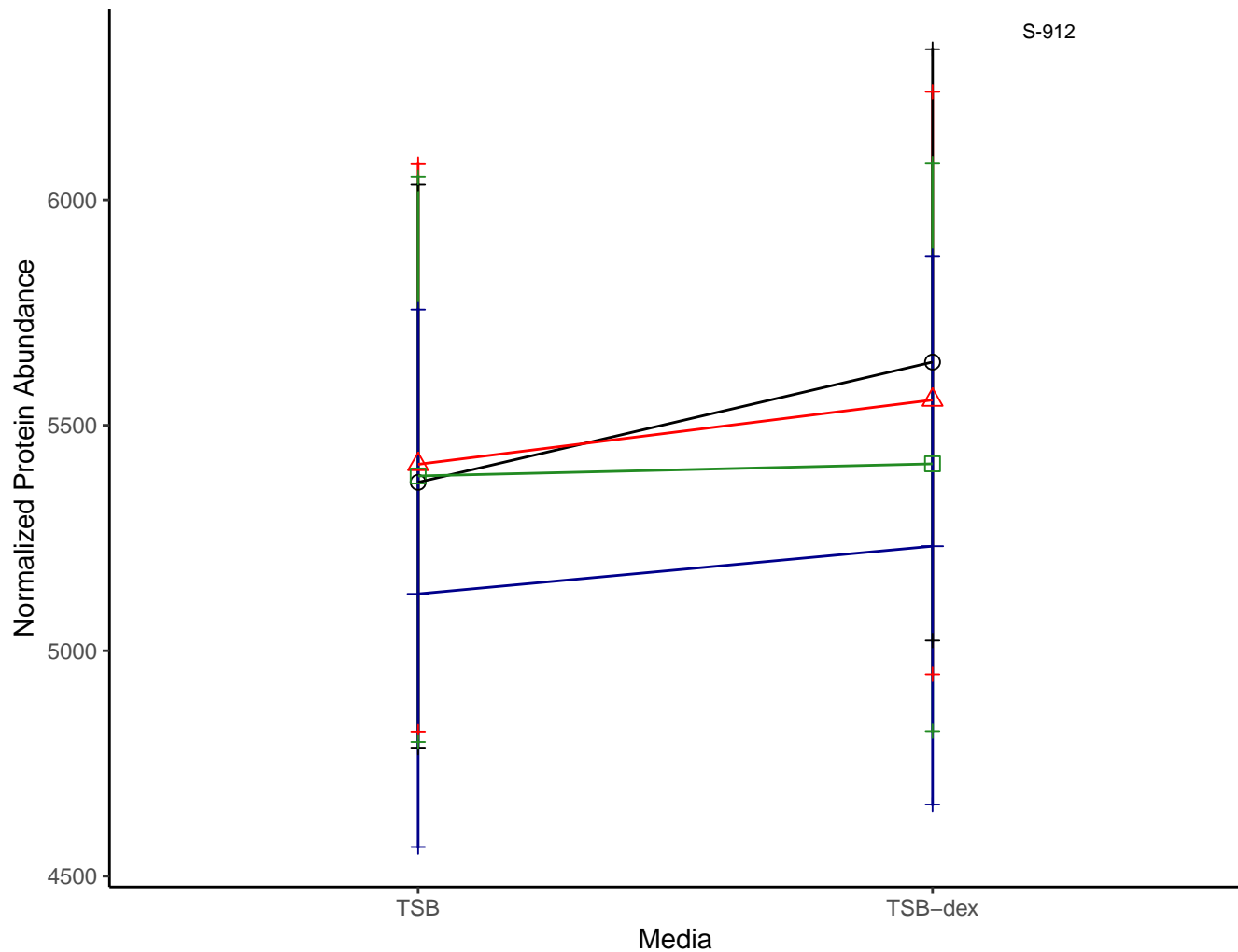
S-911



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYV\_STAAM

S-912

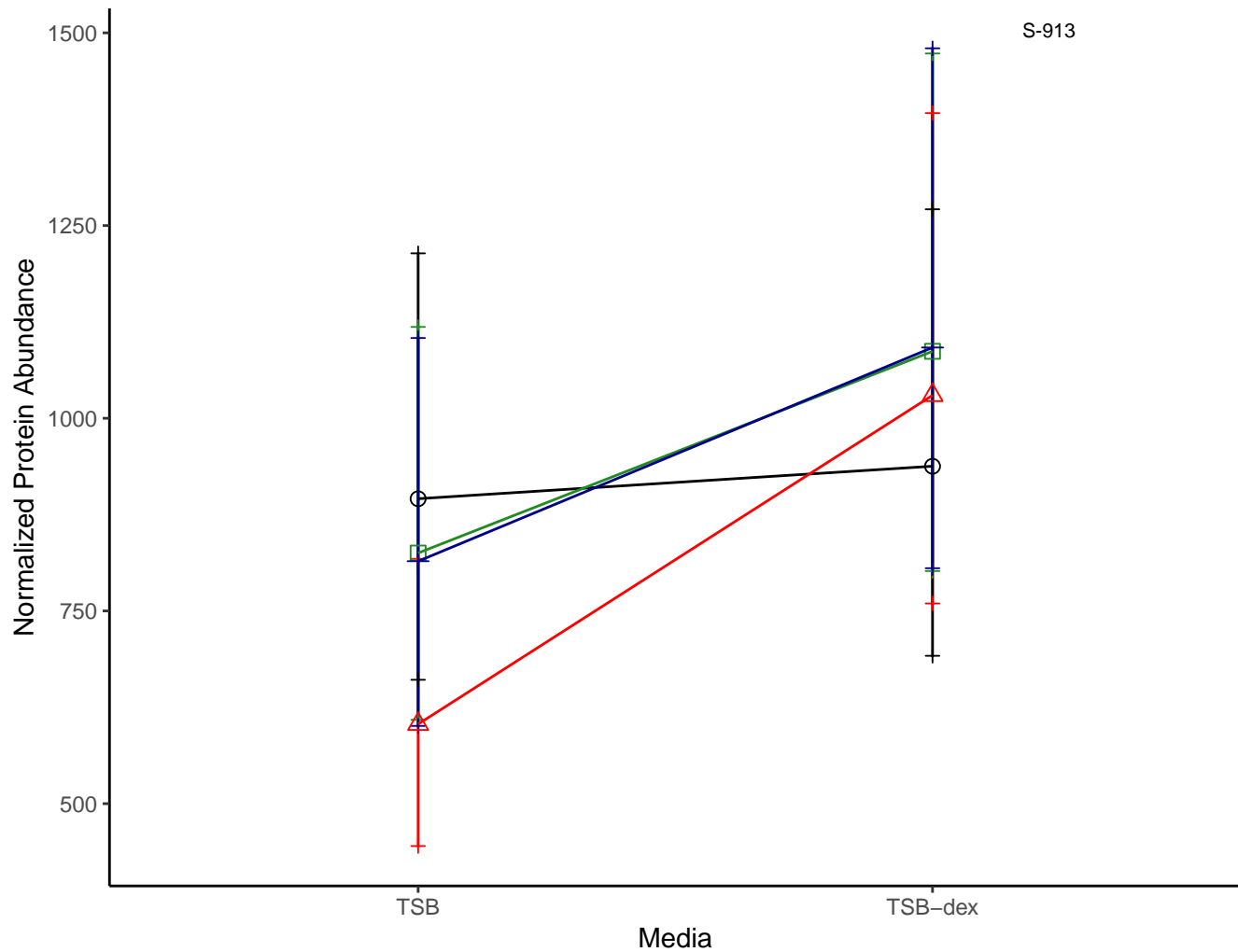


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# SYW\_STAAM

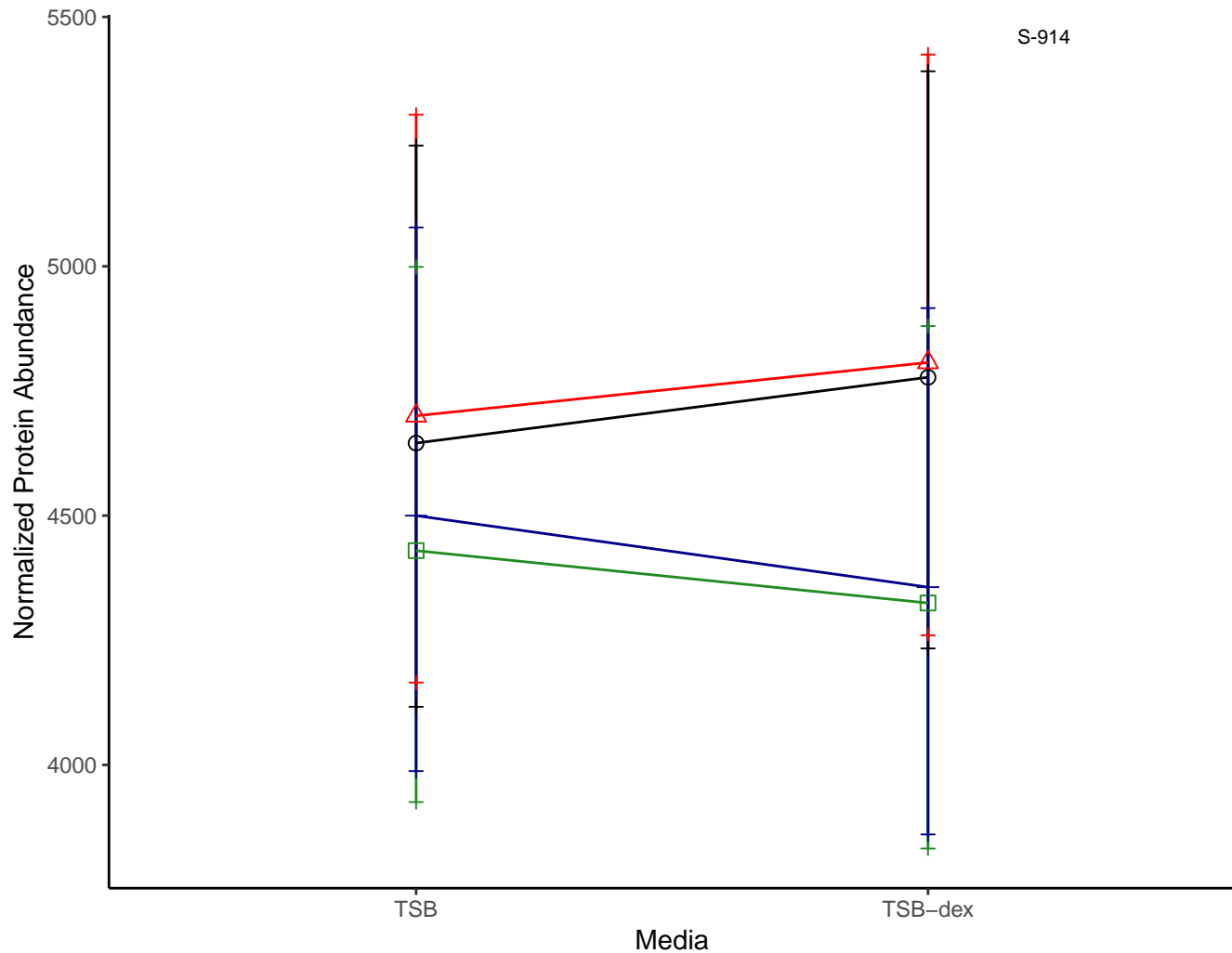
S-913



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYT\_STAAM

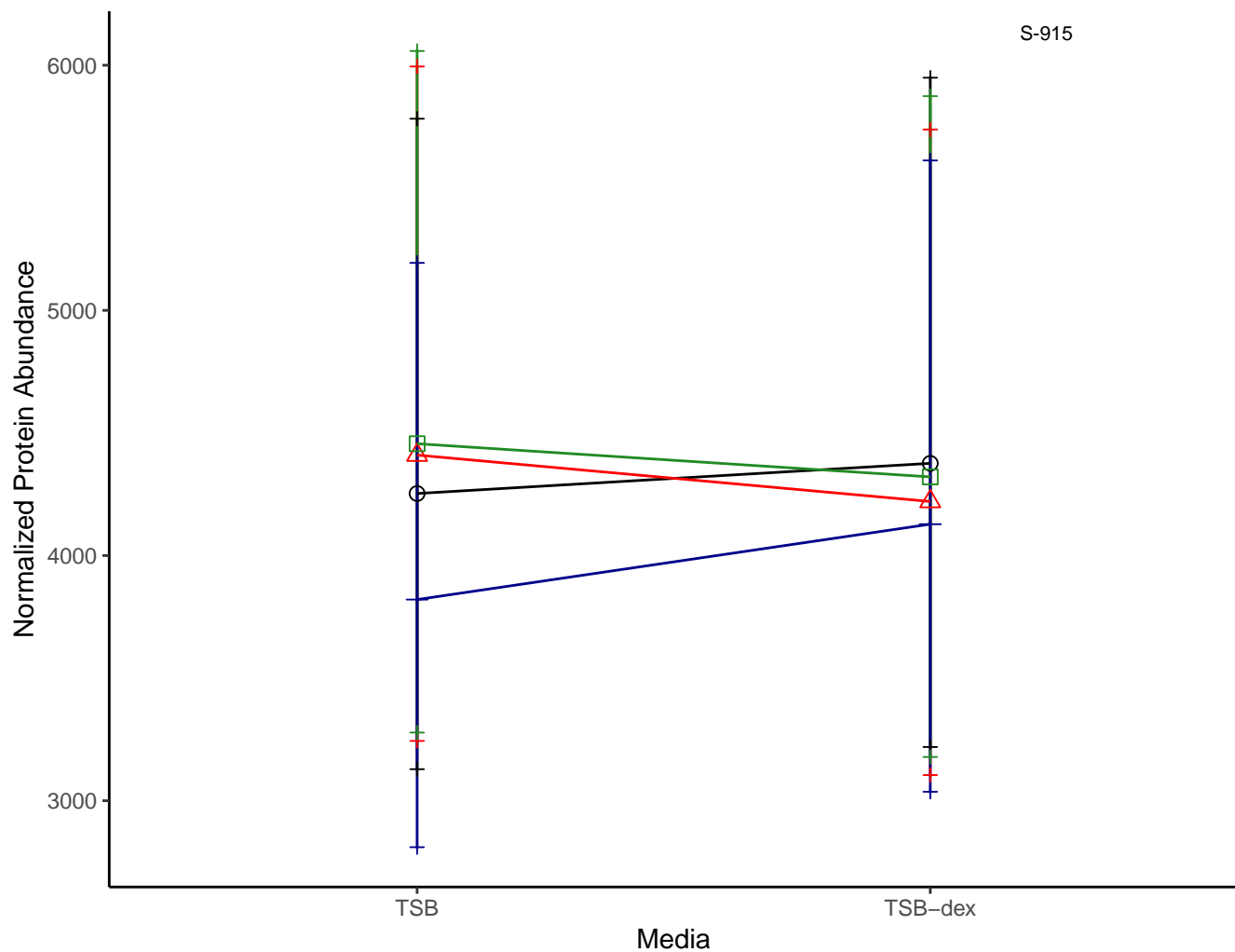
S-914



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# T431\_STAAM

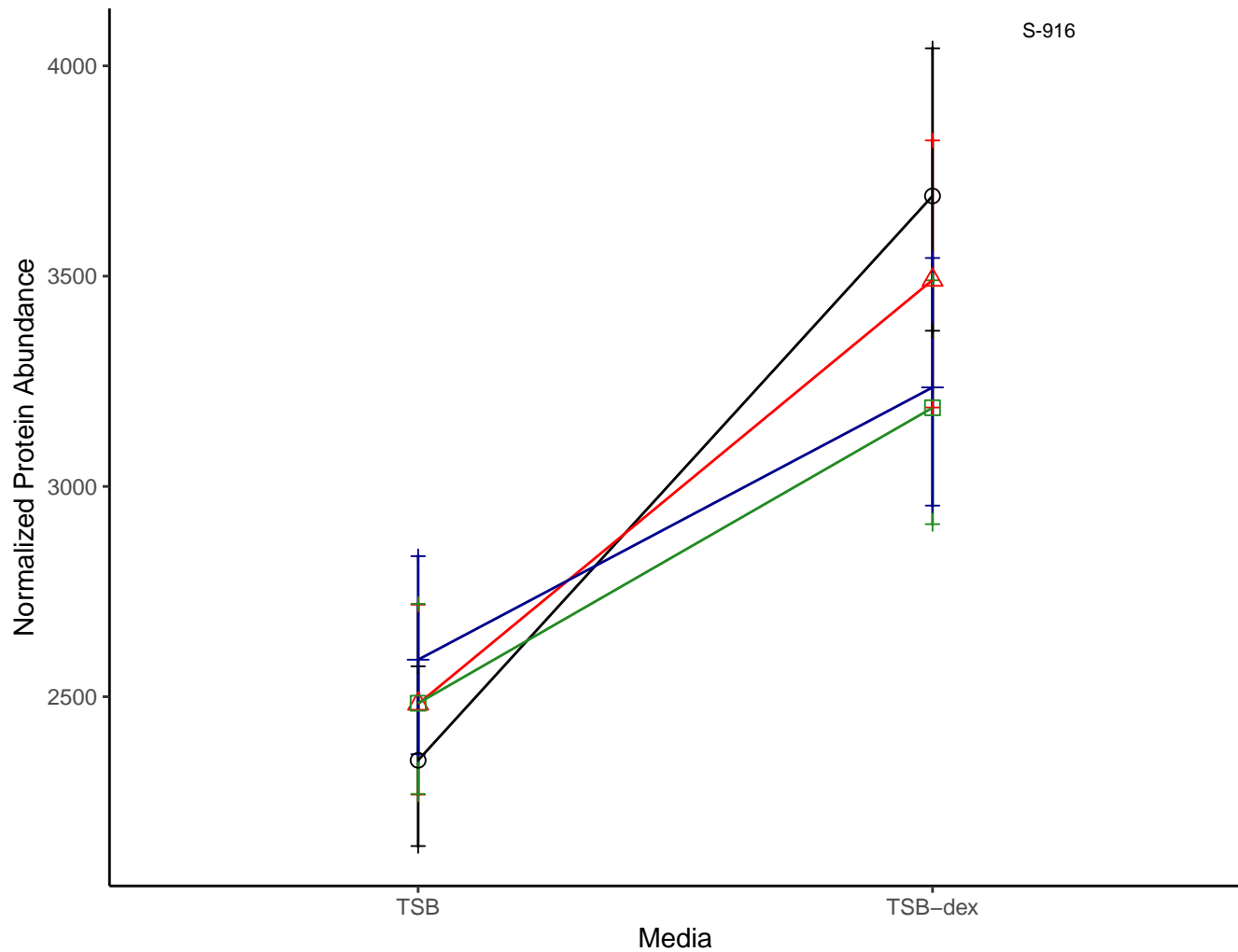
S-915



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TADA\_STAAM

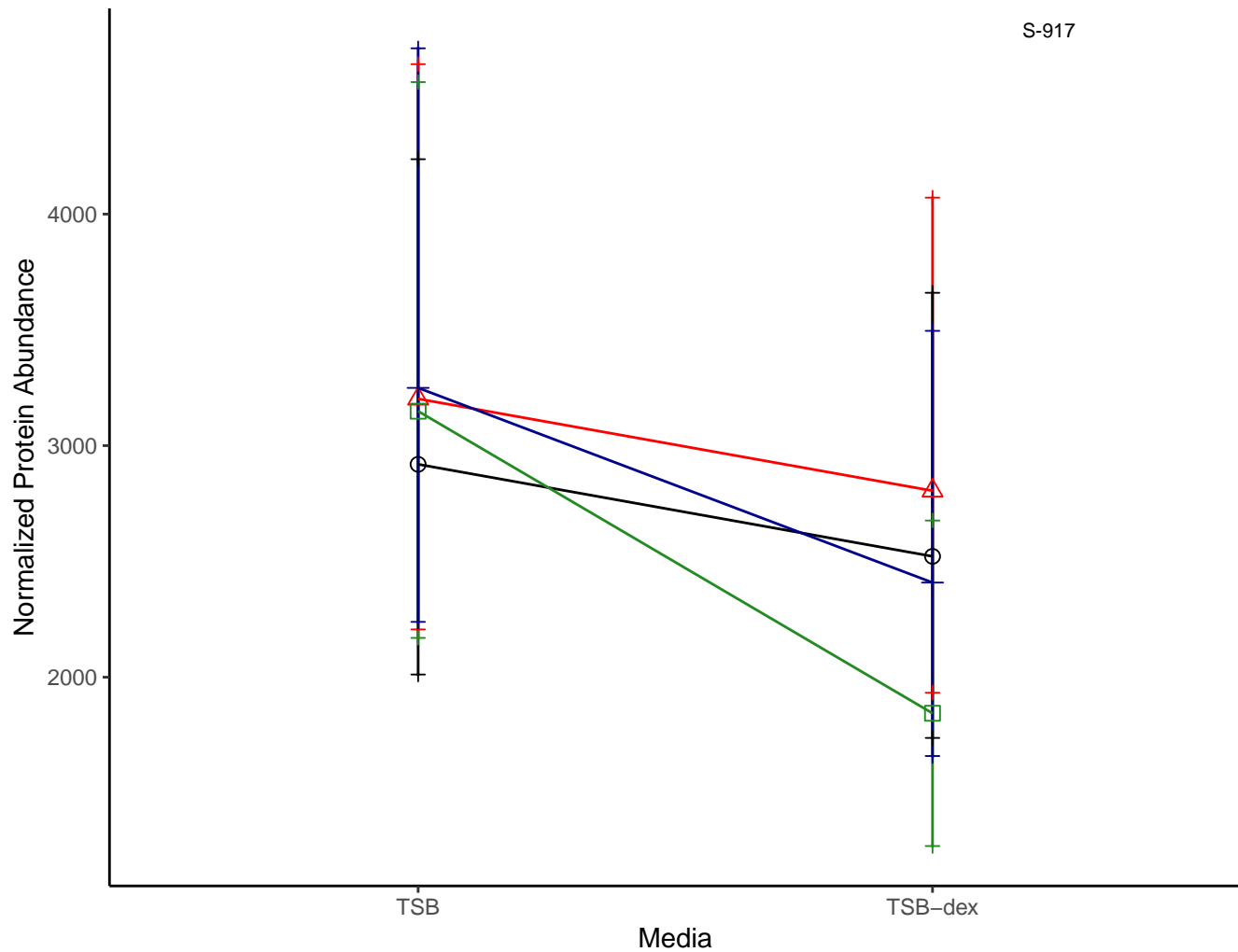
S-916



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## TAGA\_STAAM

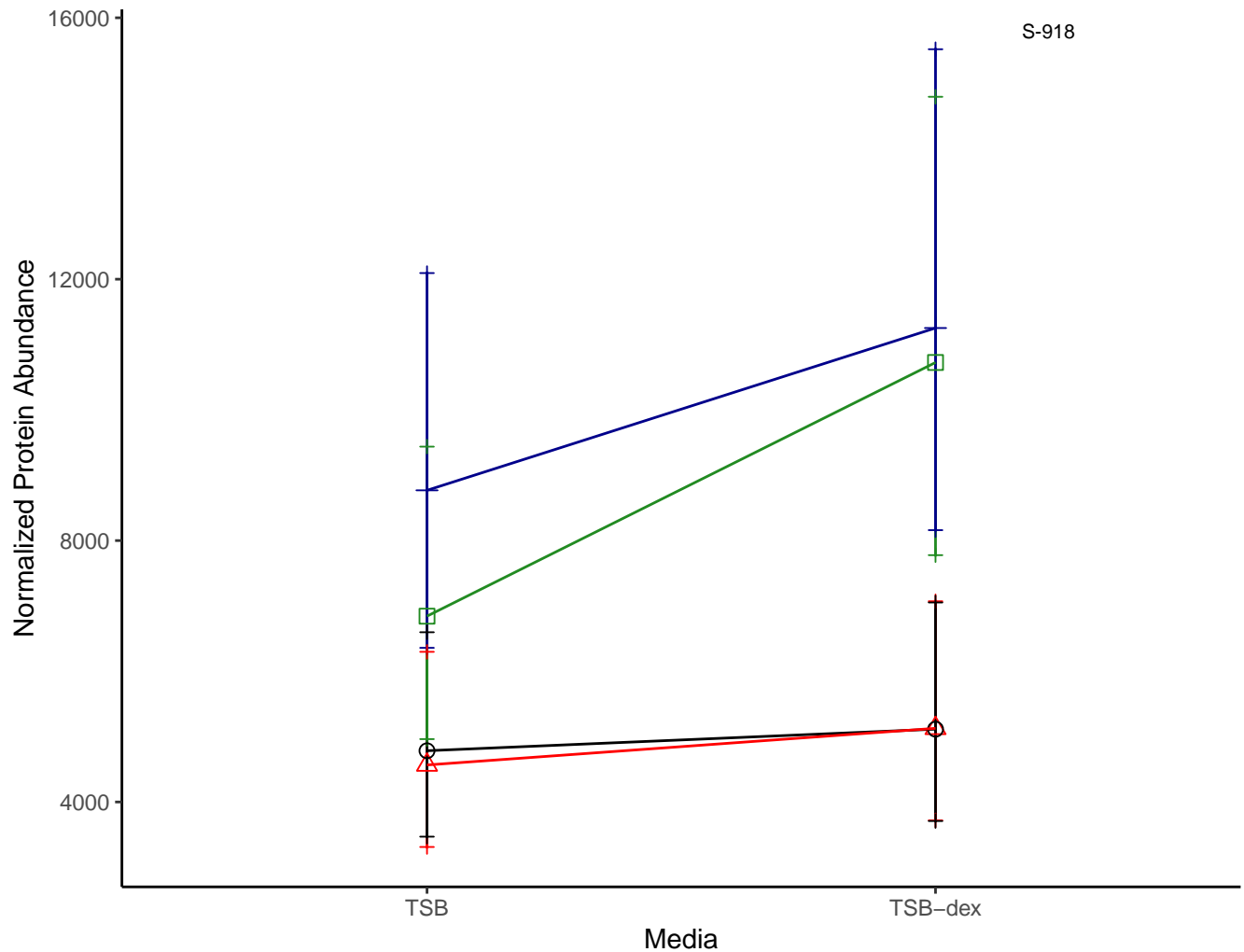
S-917



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# TDCB\_STAAM

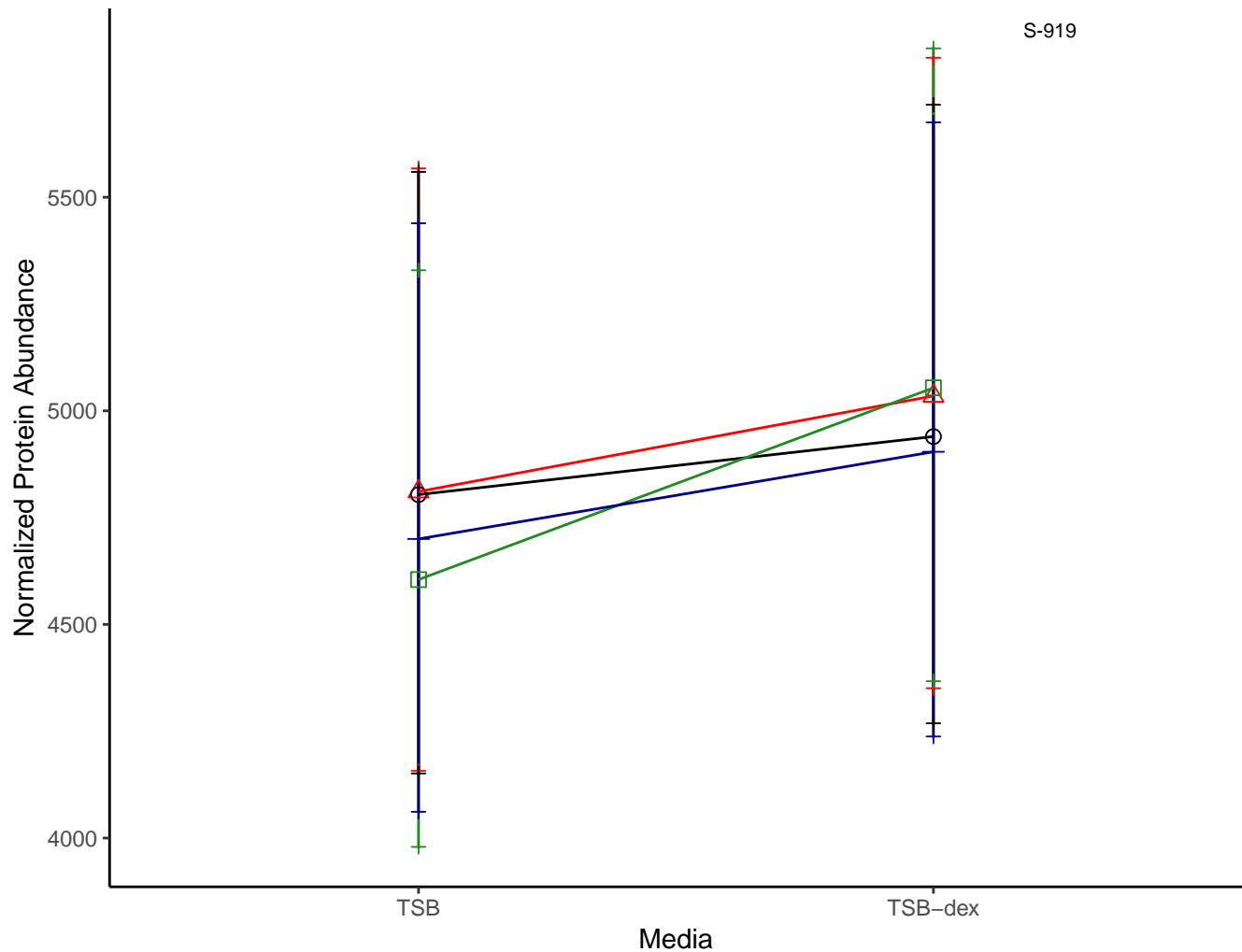
S-918



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TELL\_STAAM

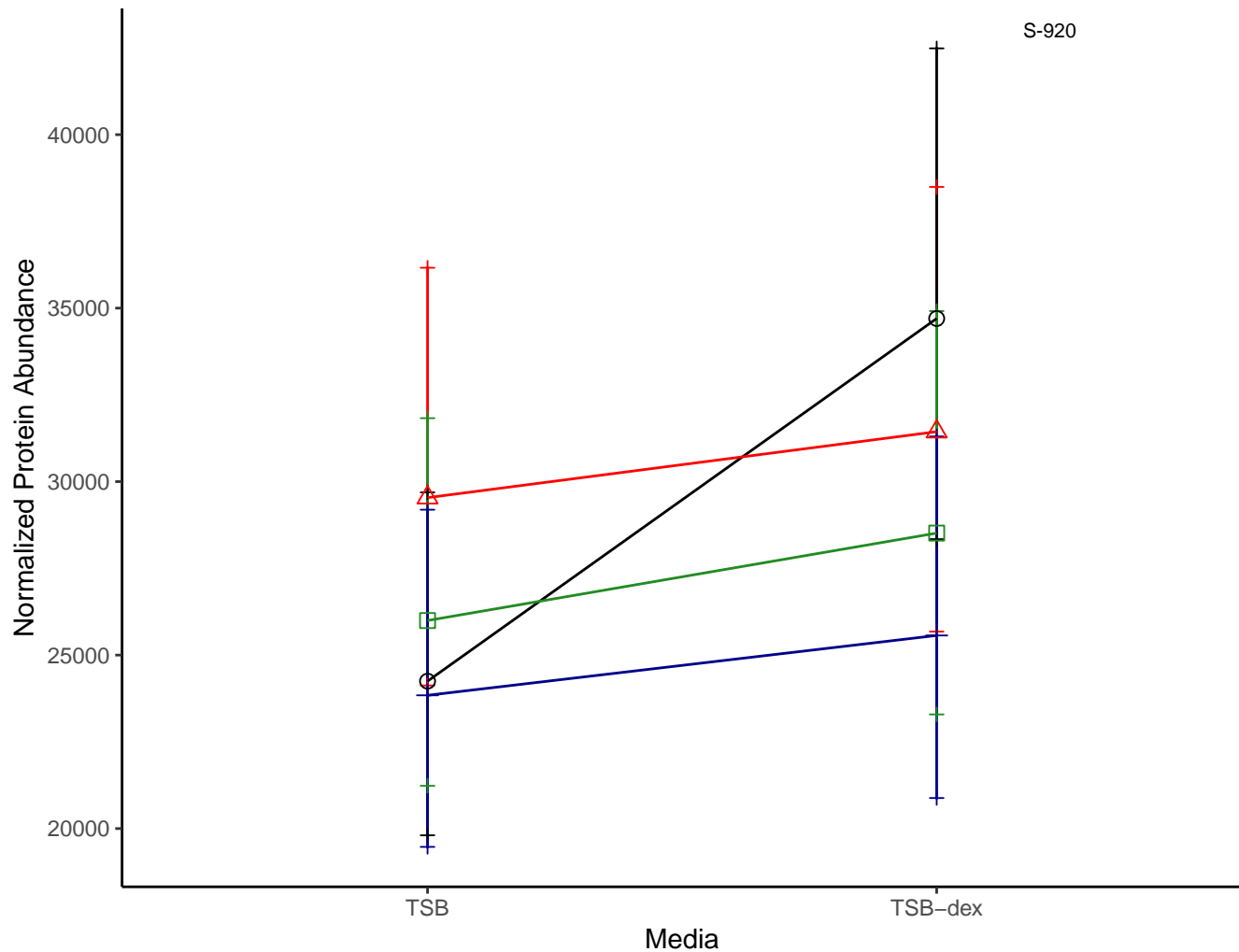
S-919



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# THID\_STAAM

S-920

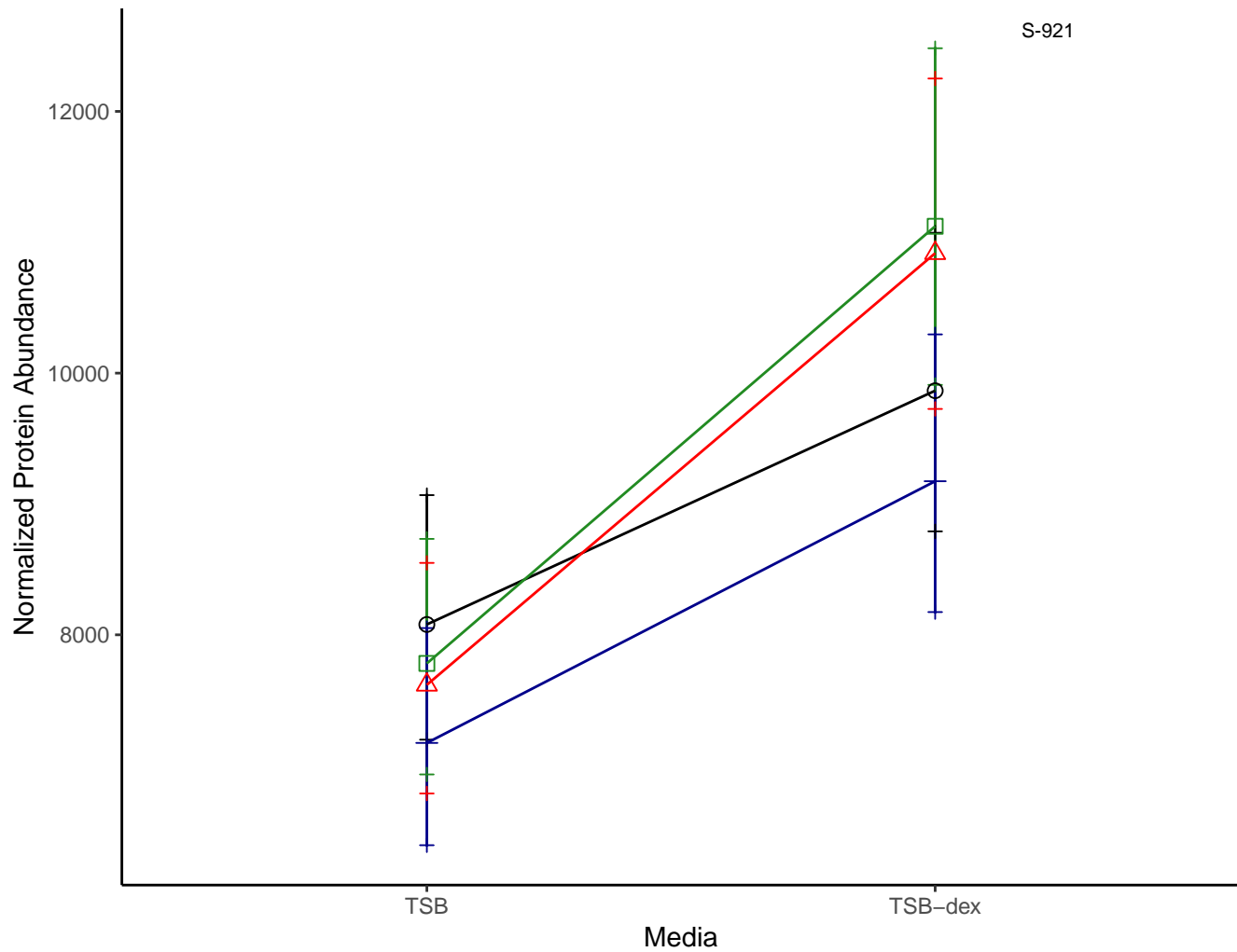


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# THIM\_STAAM

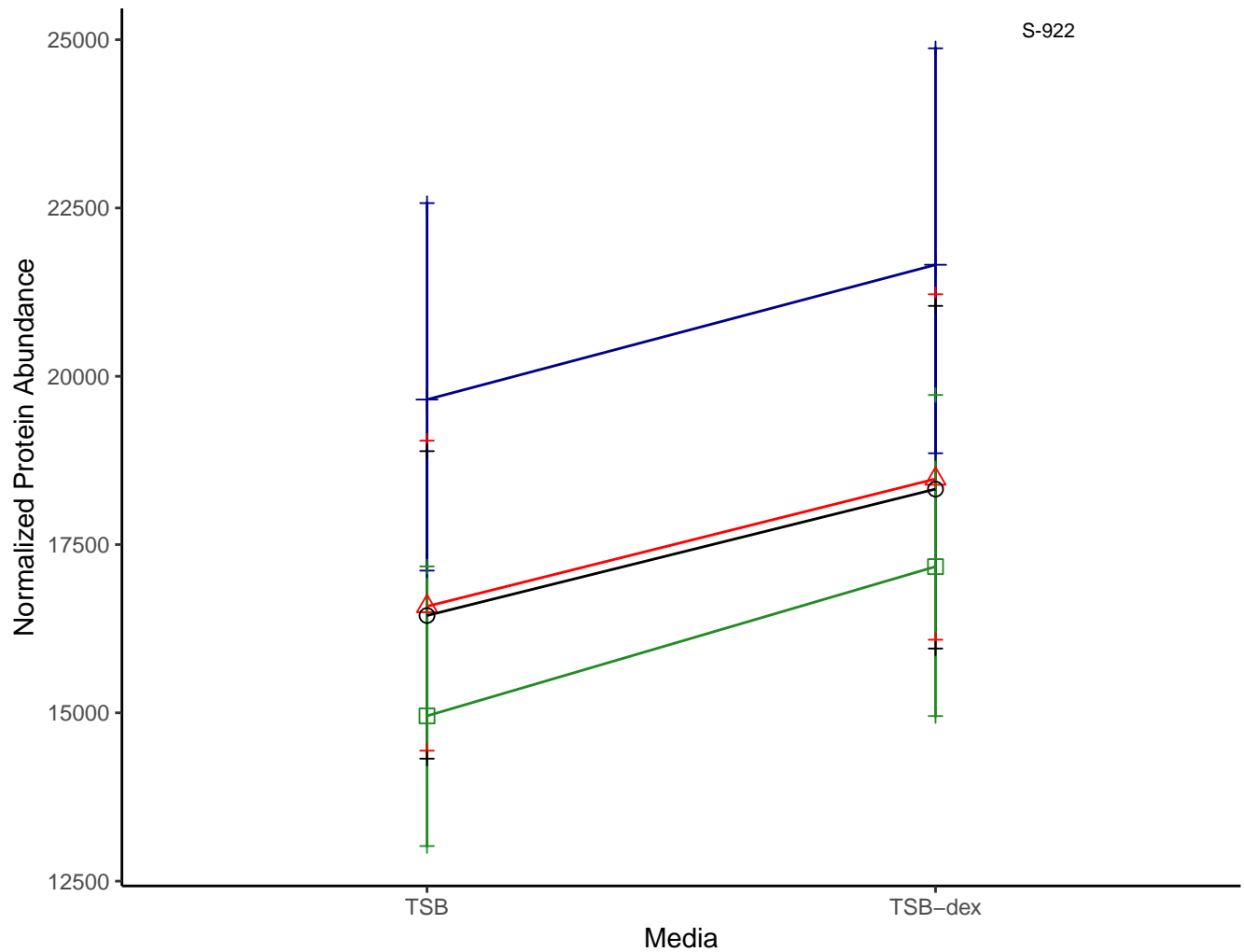
S-921



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# THIO\_STAAM

S-922



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# THLA\_STAAM

S-923

Normalized Protein Abundance

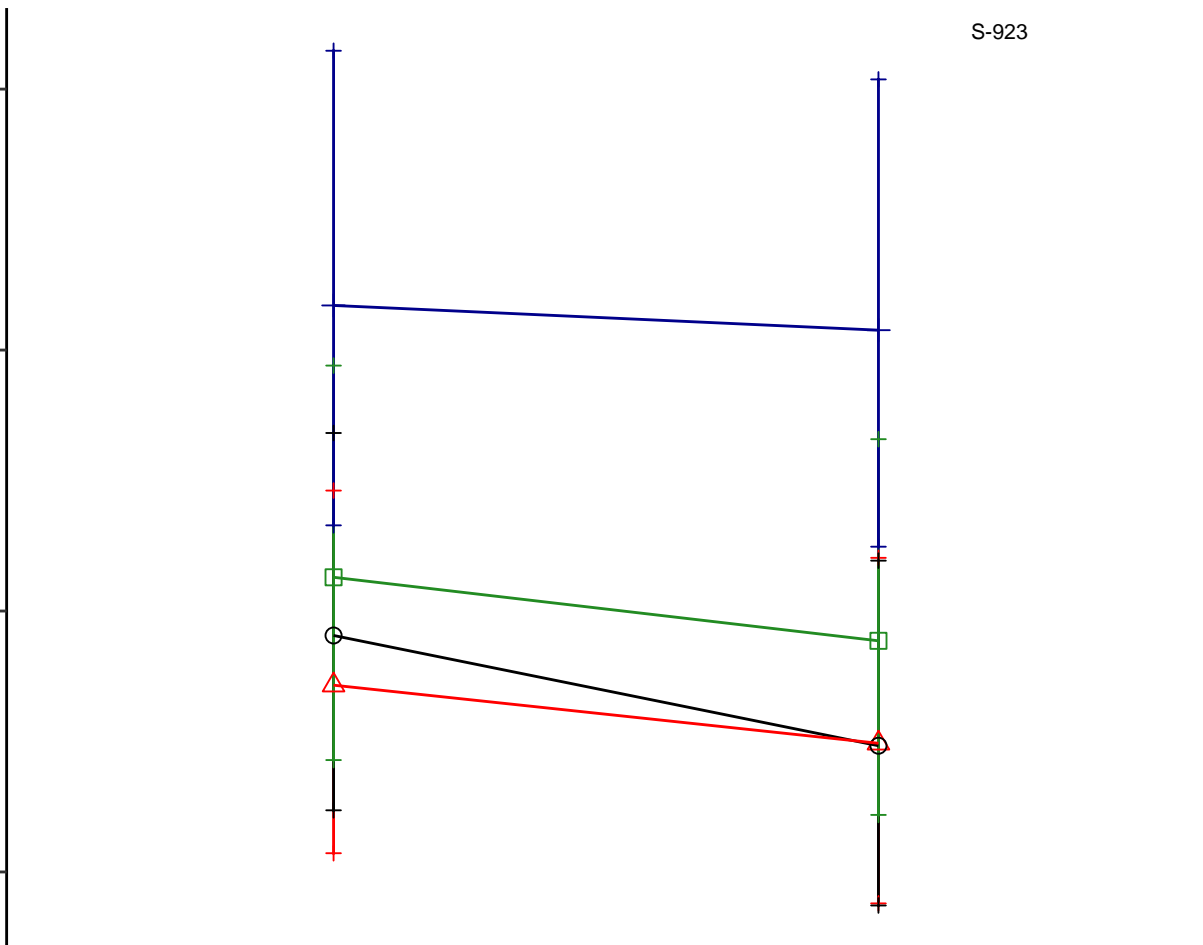
14000  
12000  
10000  
8000

TSB

Media

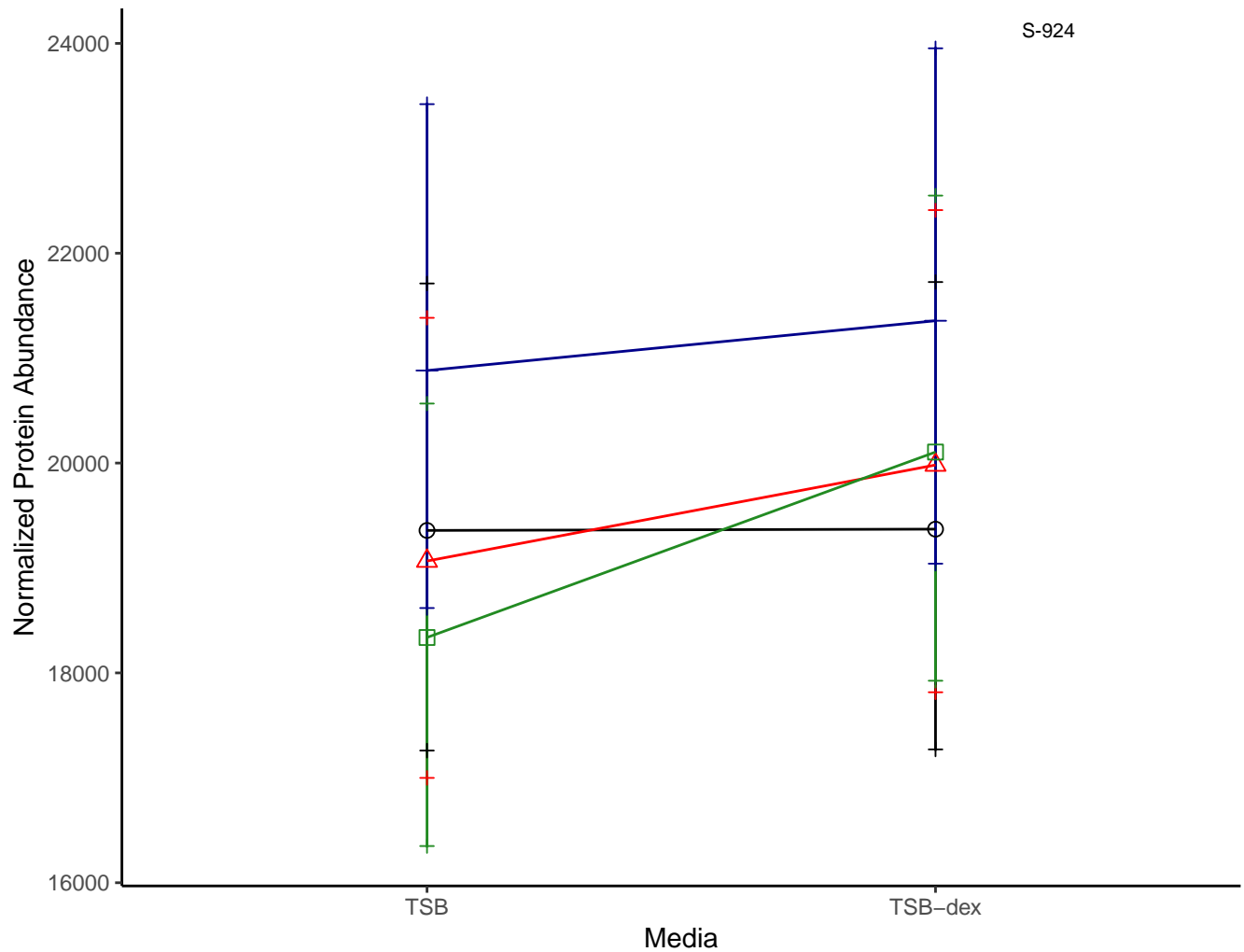
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# TIG\_STAAM

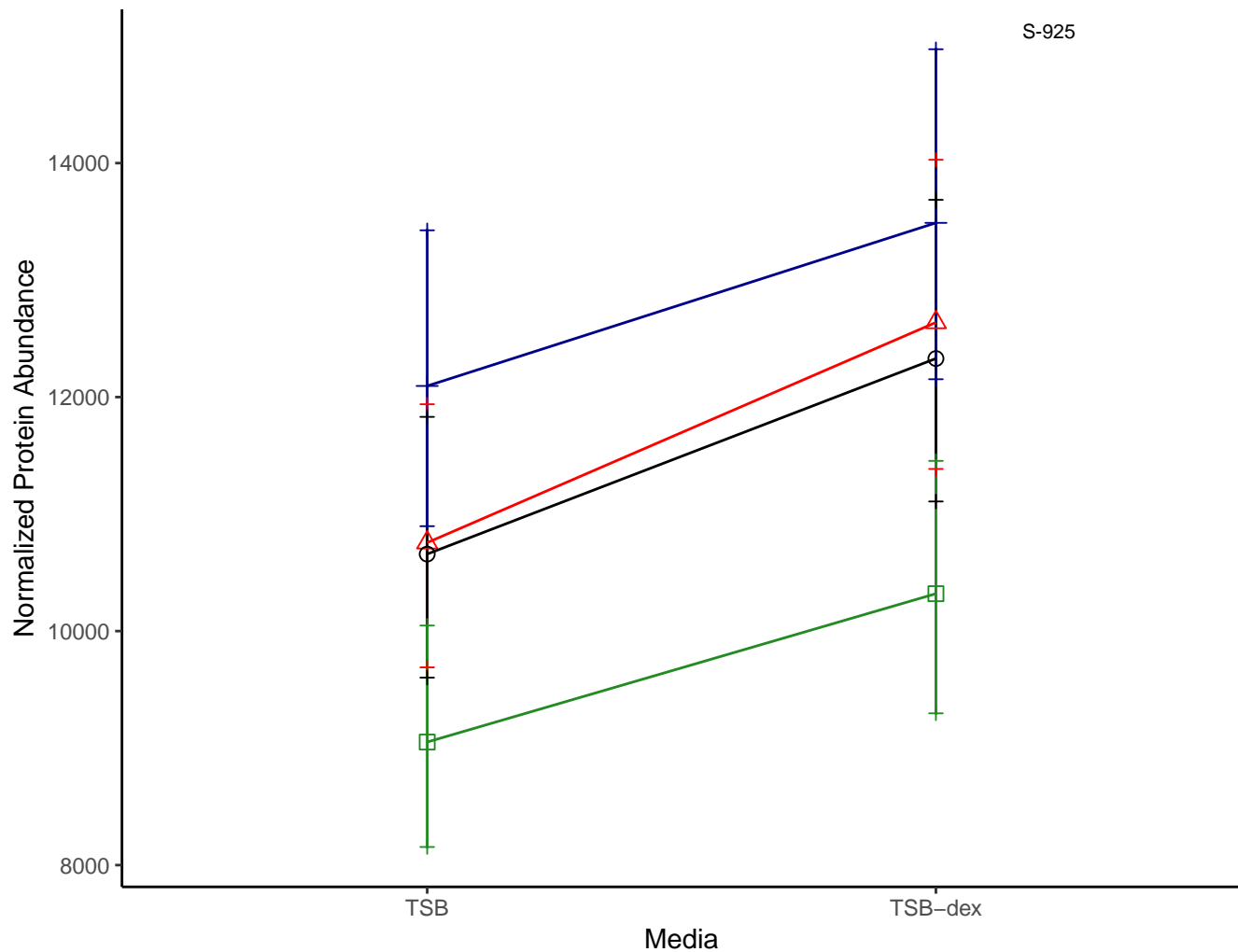
S-924



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TKT\_STAAM

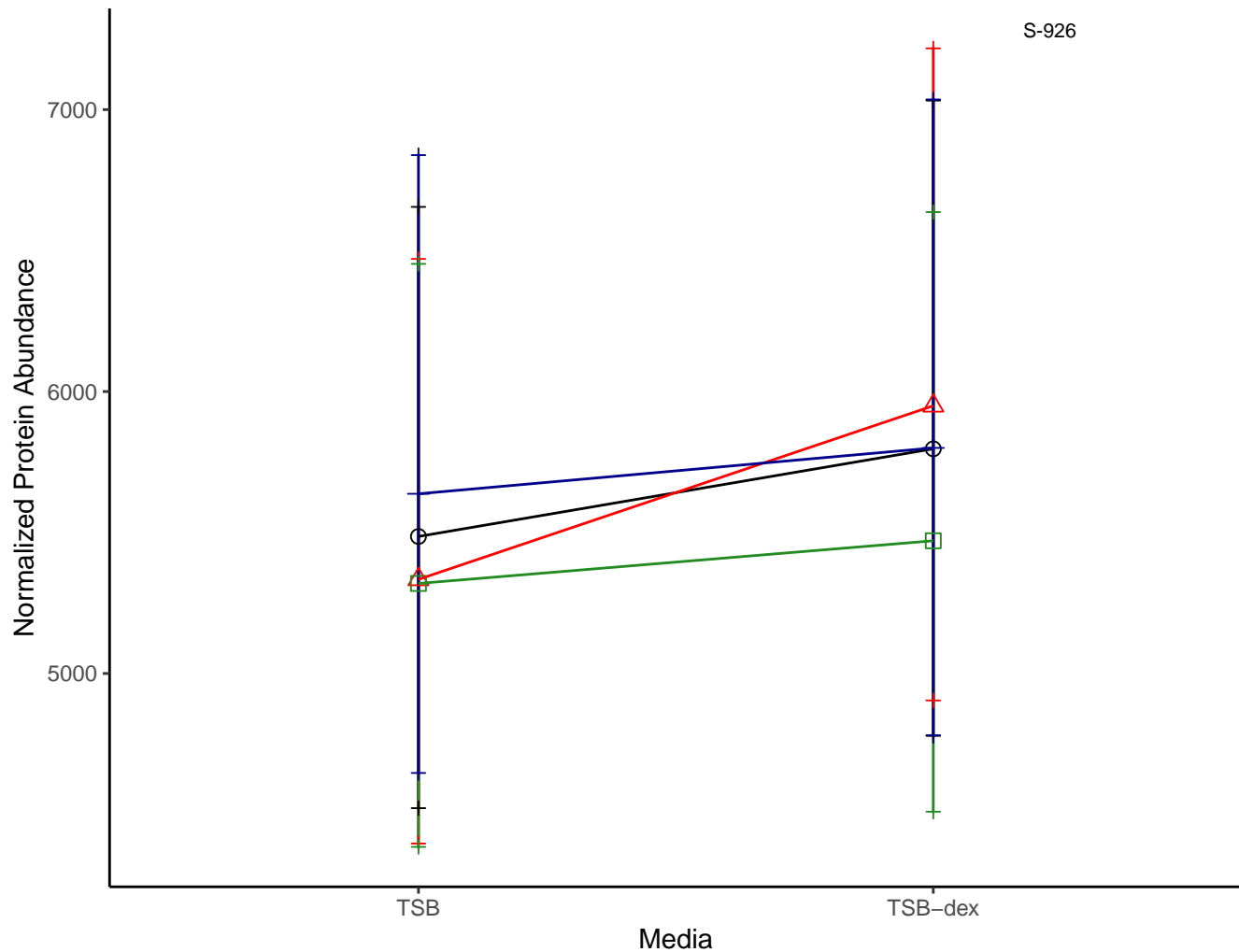
S-925



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TOP1\_STAAM

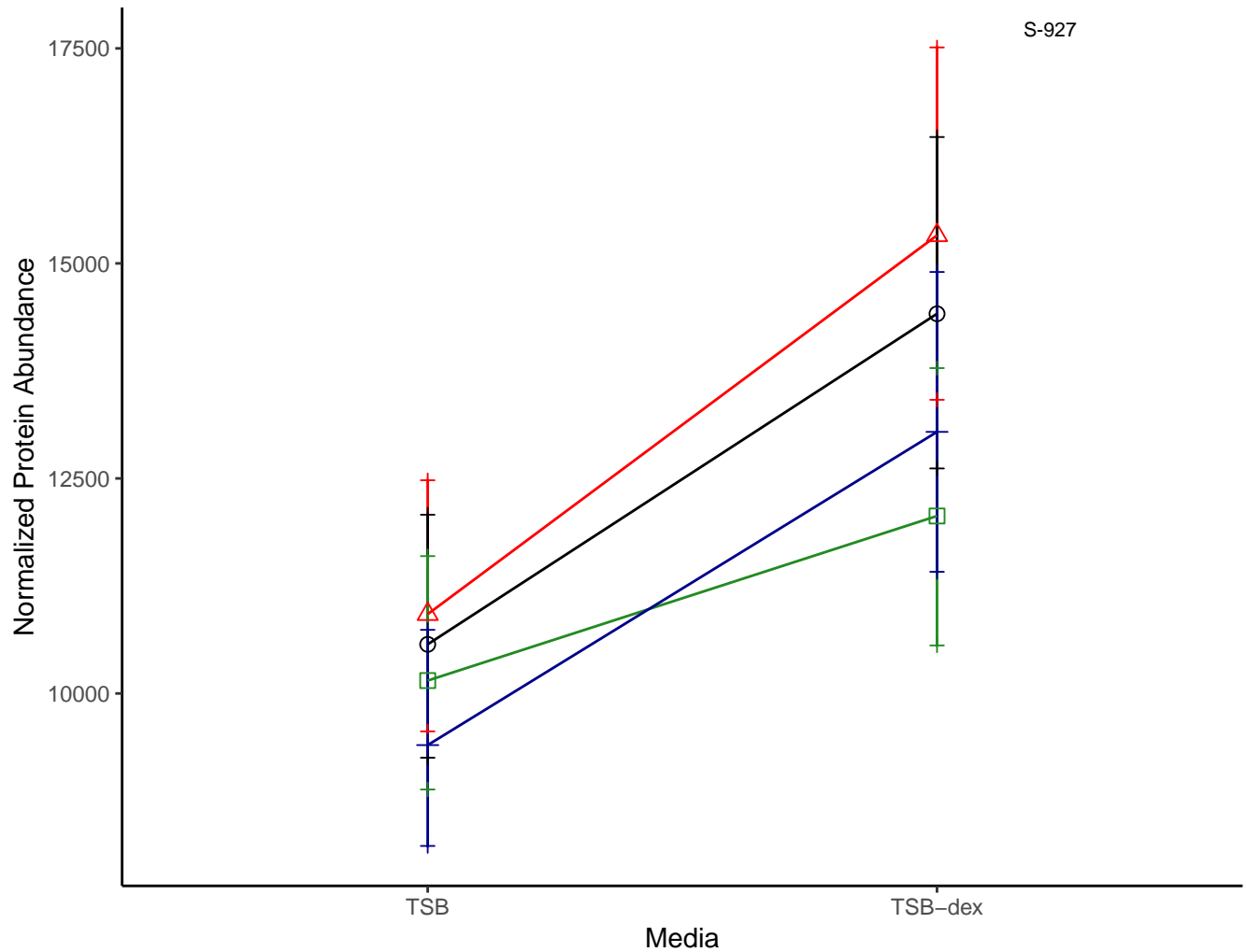
S-926



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TOP3\_STAAM

S-927



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TPIS\_STAAM

S-928

Normalized Protein Abundance

20000

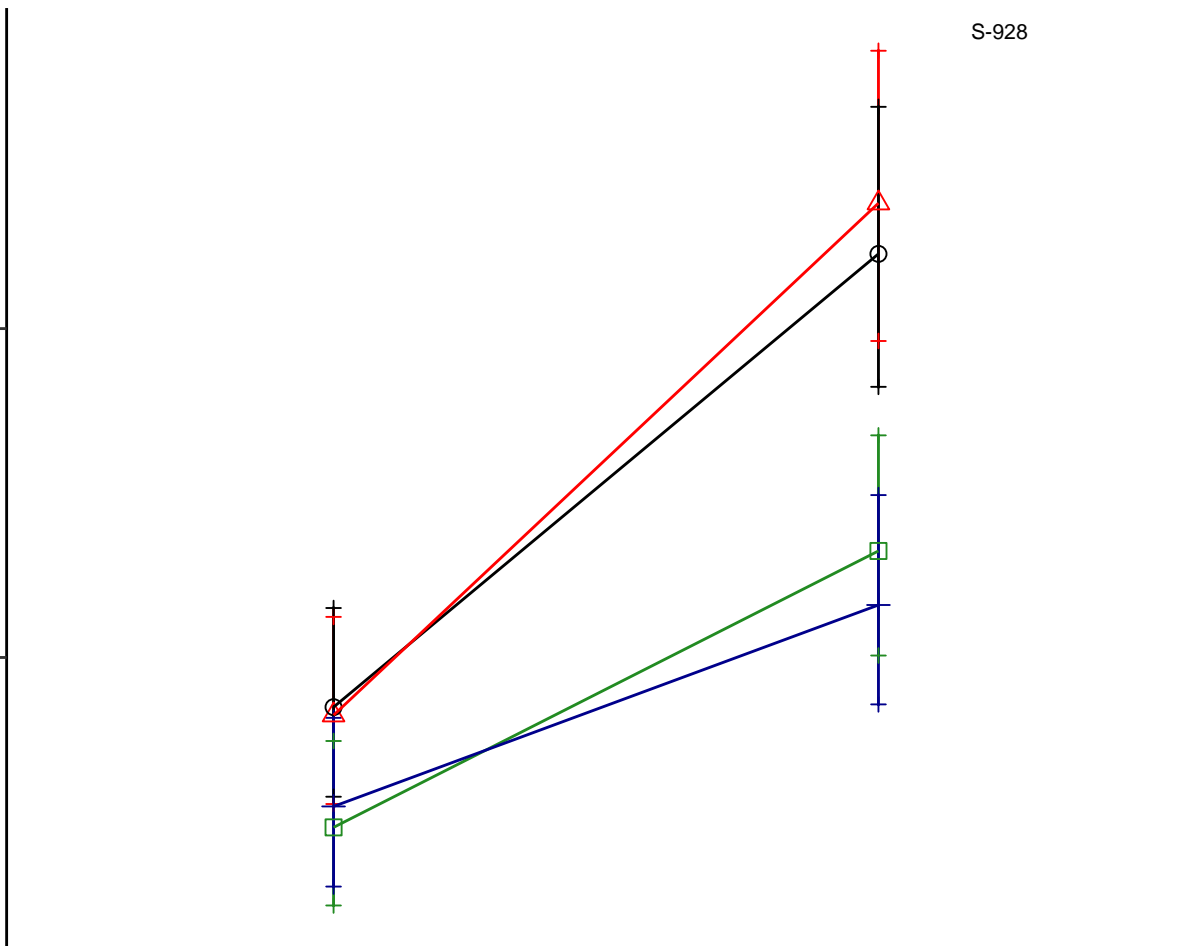
15000

TSB

Media

TSB-dex

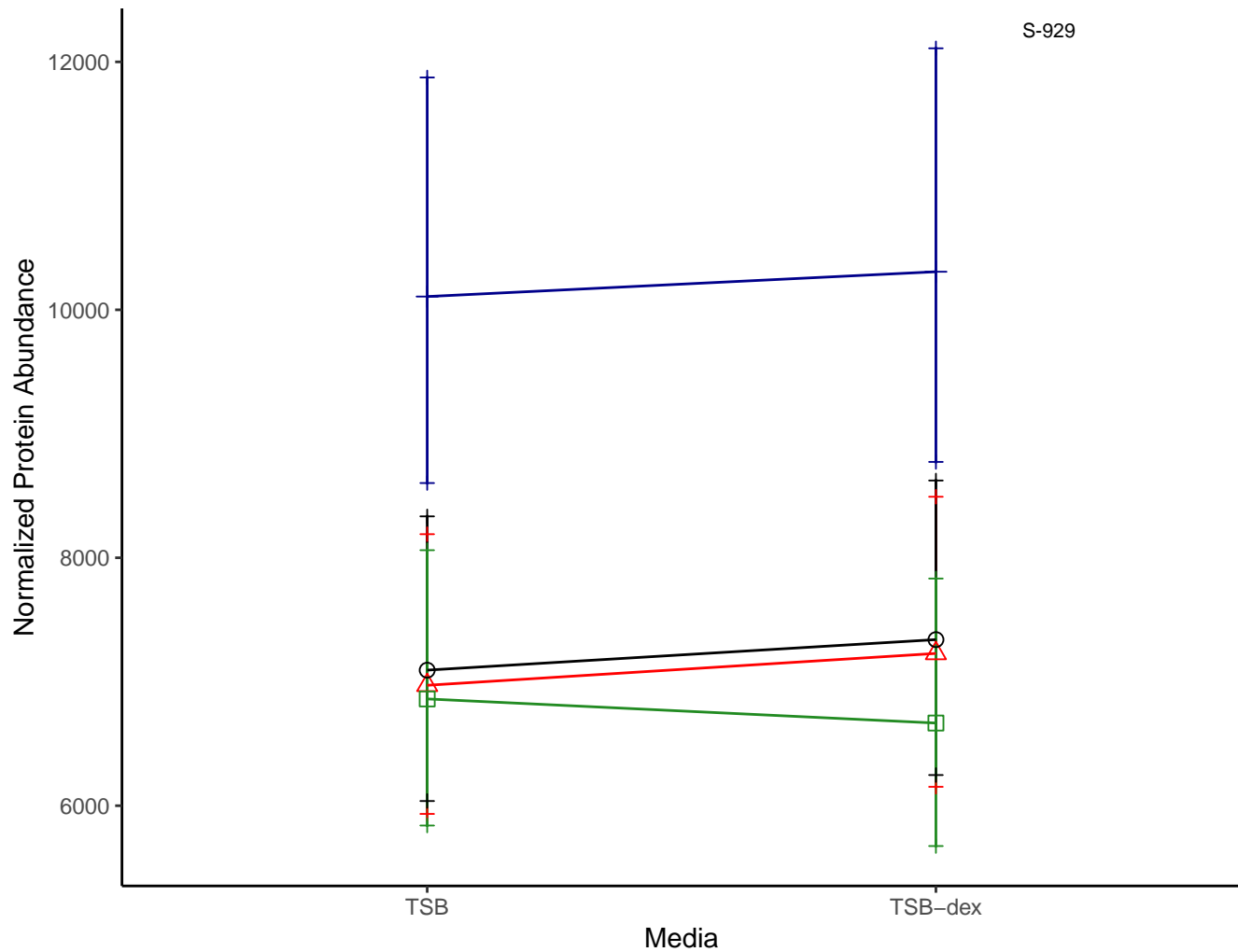
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*





# TPX\_STAAM

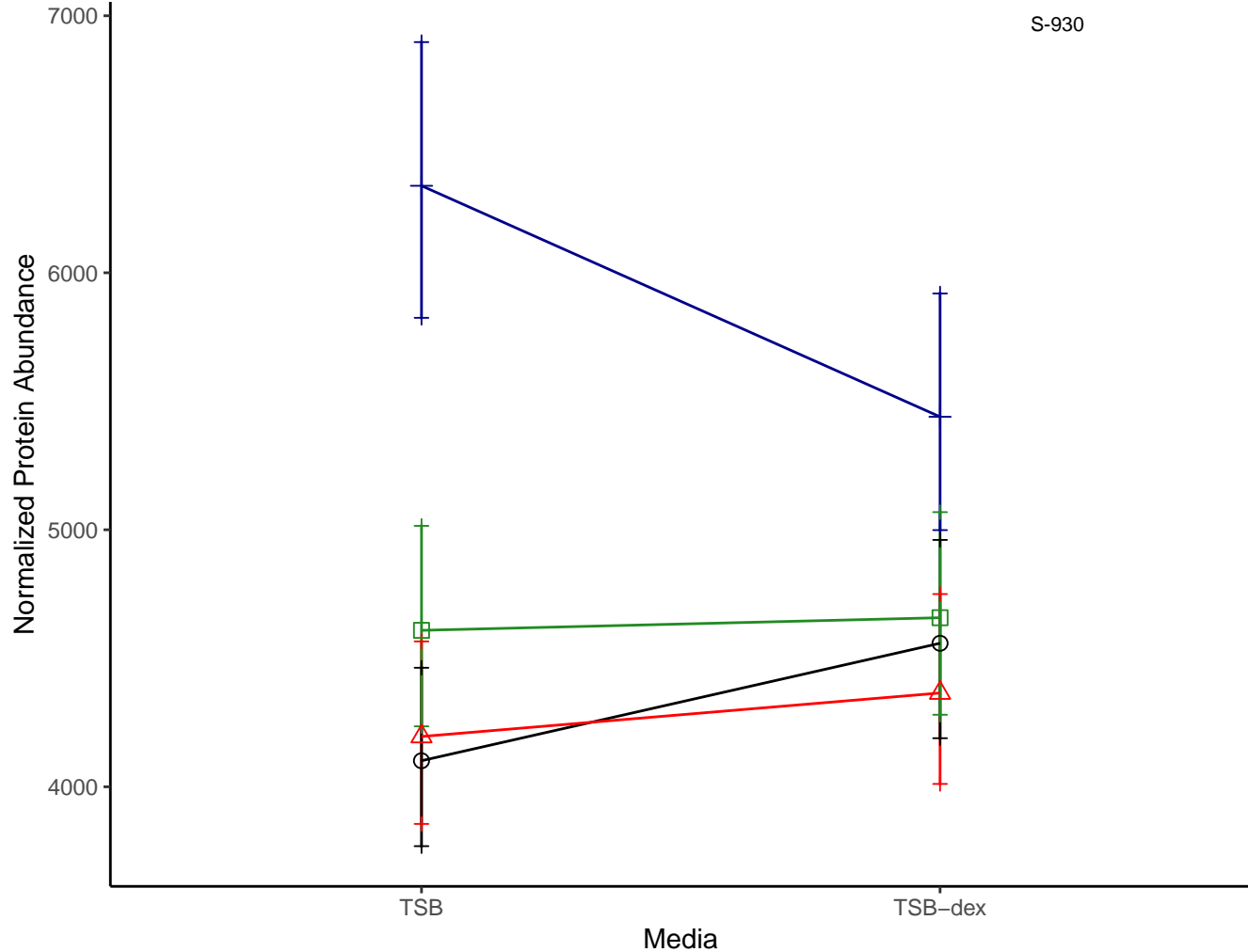
S-929



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TRAC\_STAAM

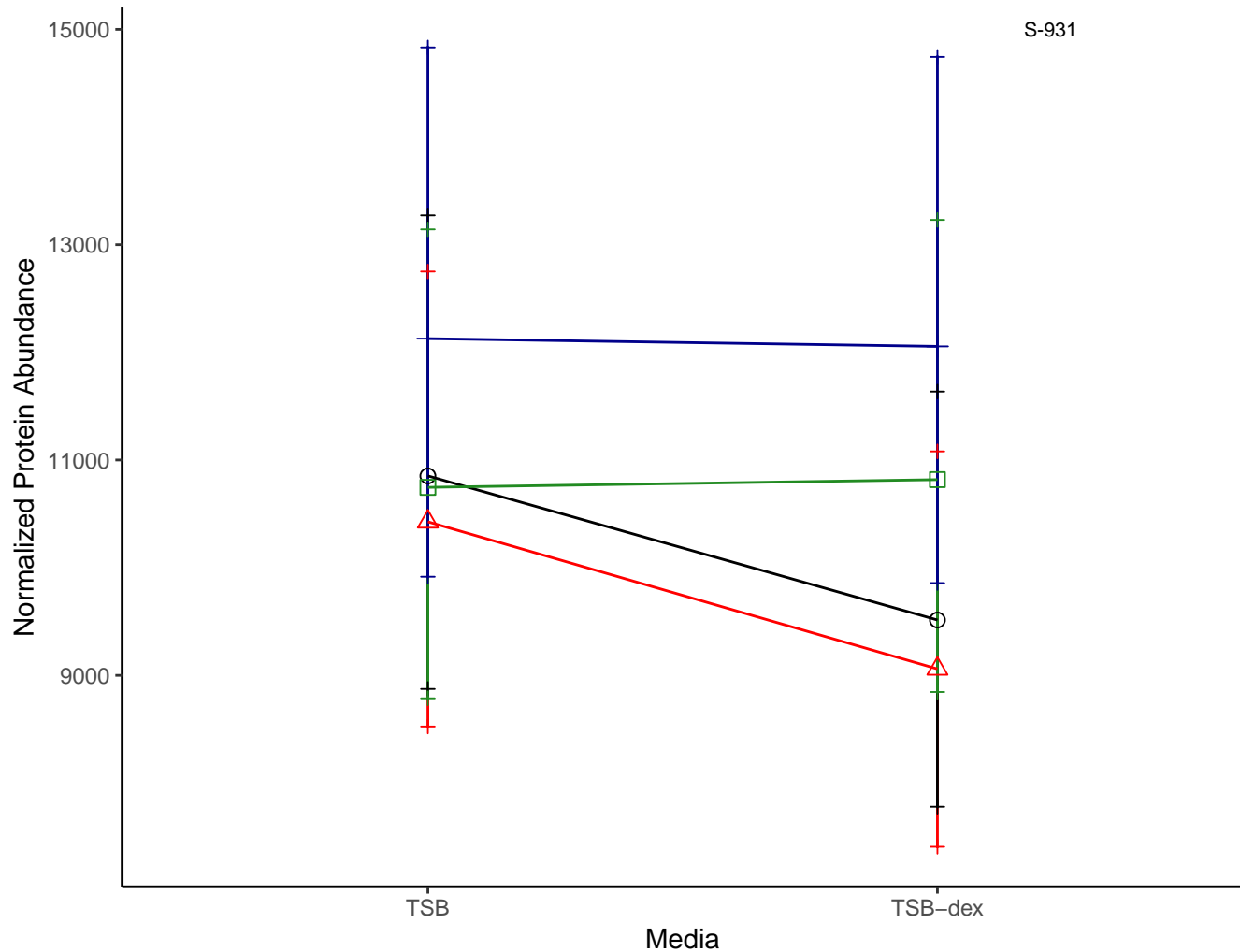
S-930



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRAP\_STAAM

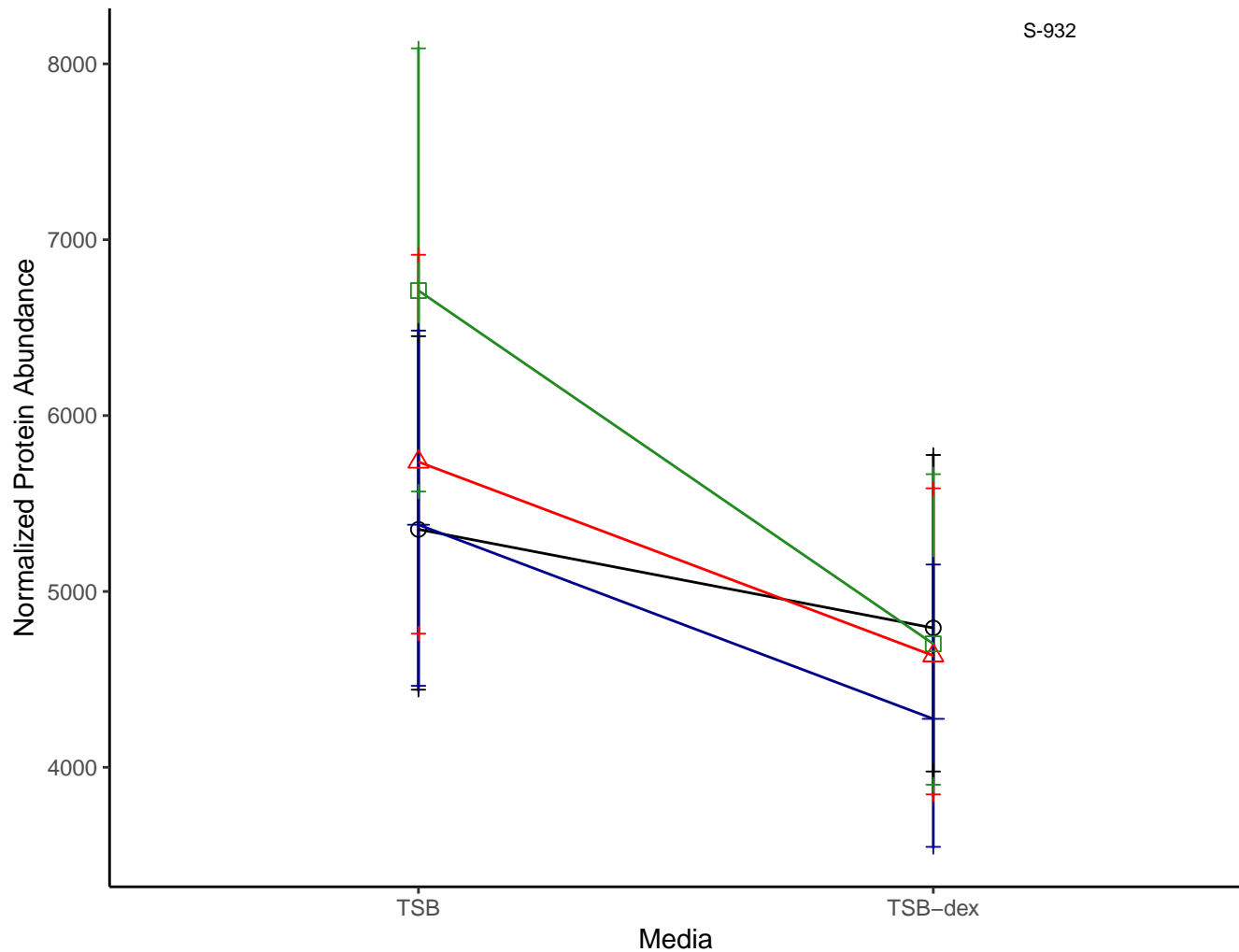
S-931



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# TRMB\_STAAM

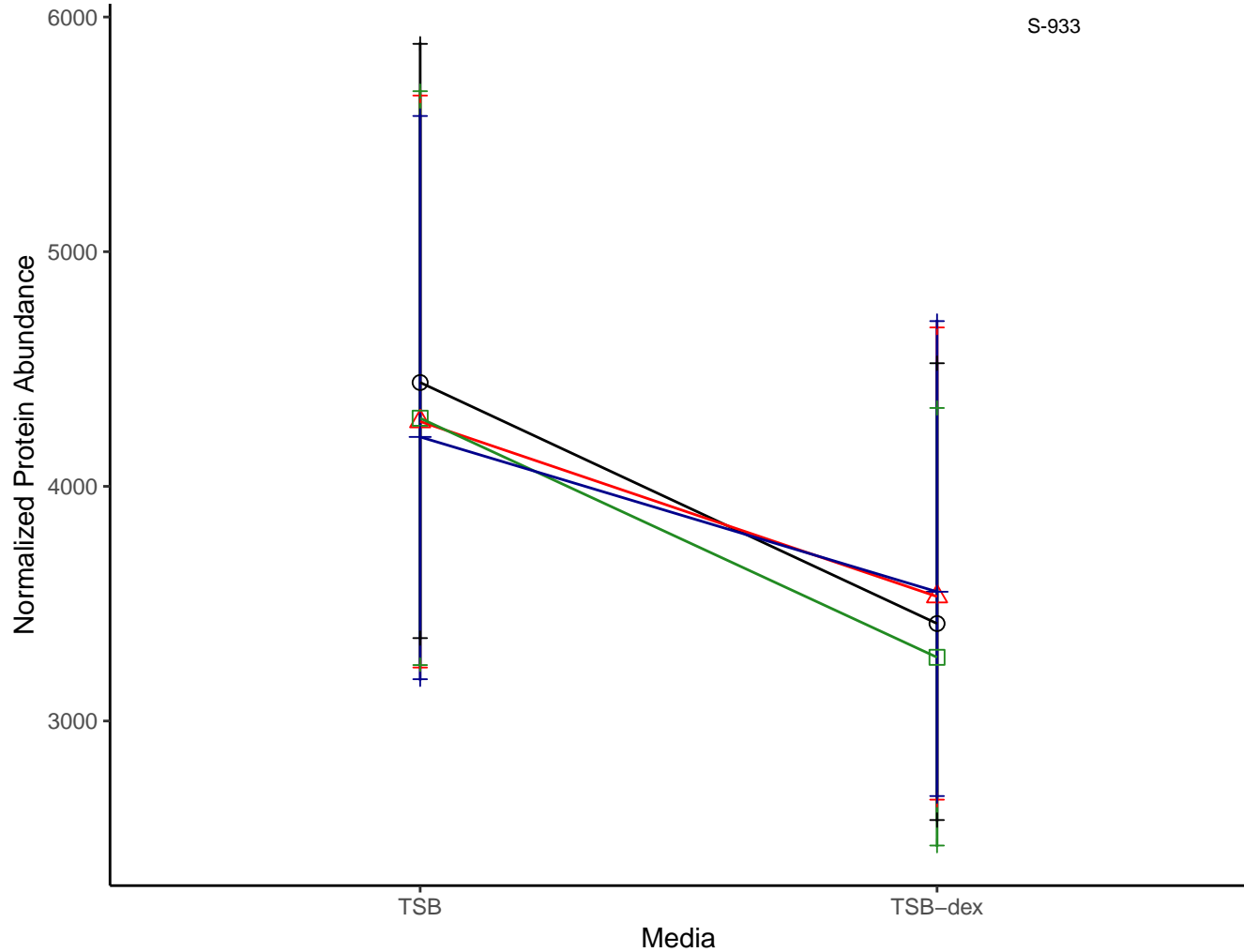
S-932



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## TRMFO\_STAAM

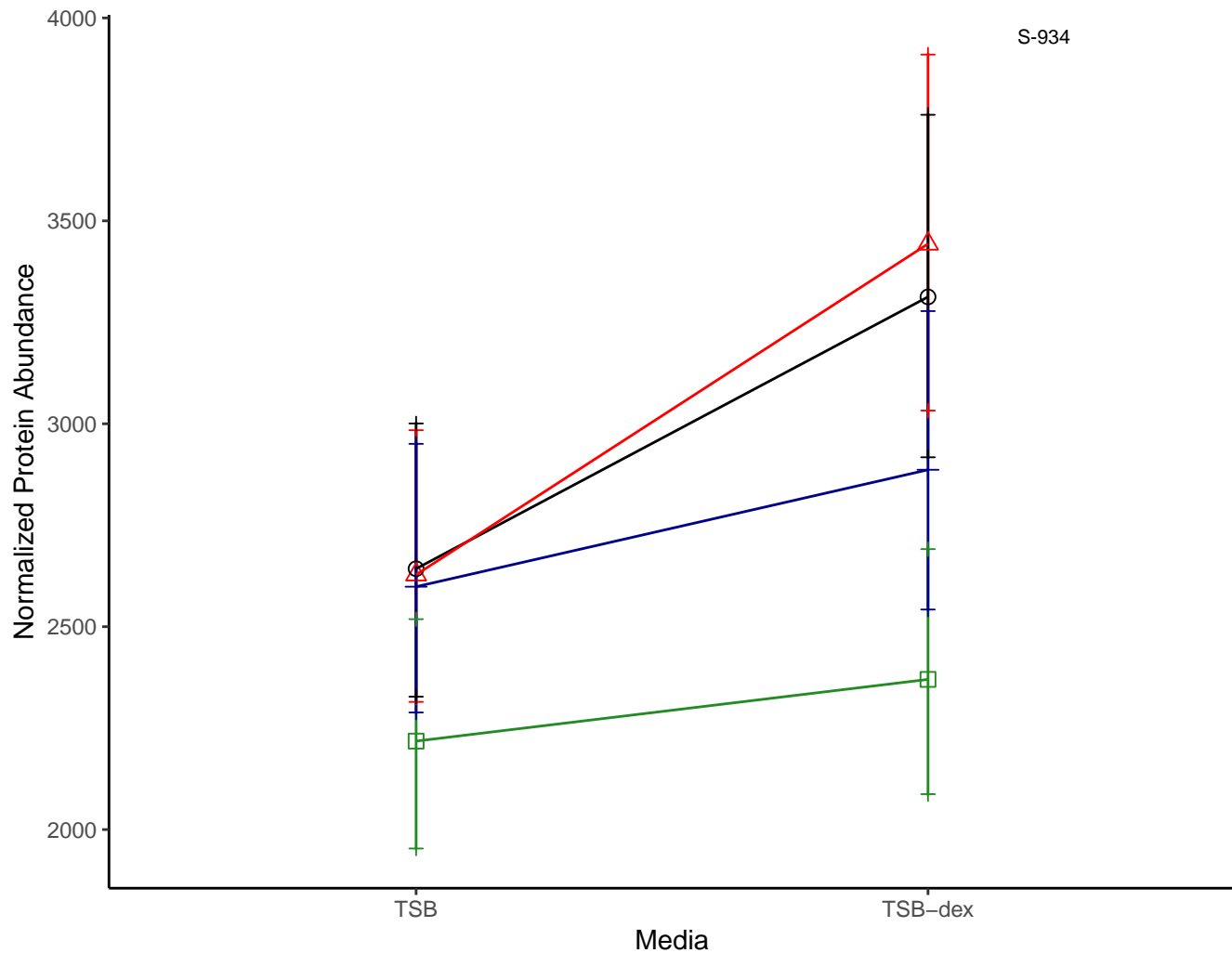
S-933



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TRMHL\_STAAM

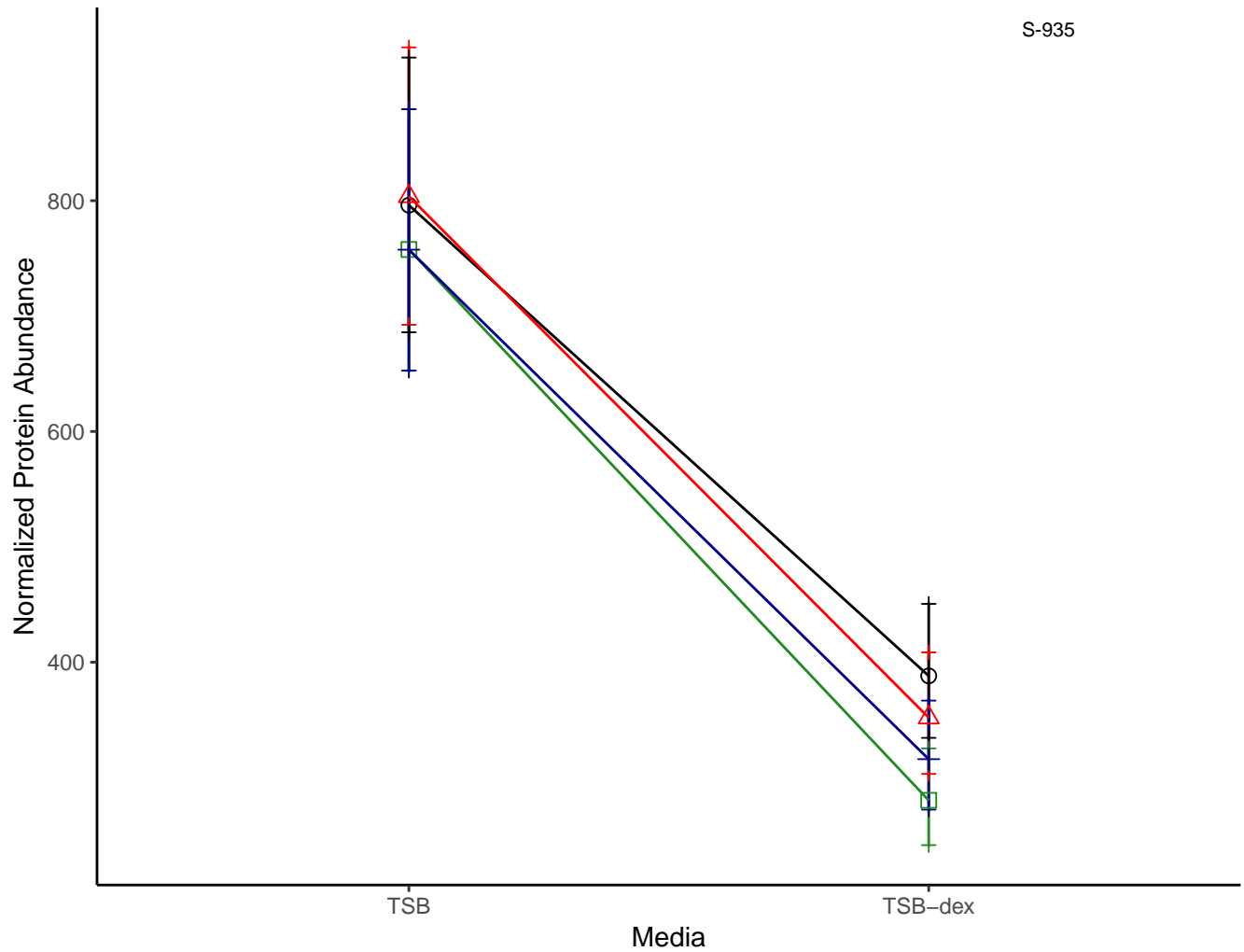
S-934



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRPA\_STAAM

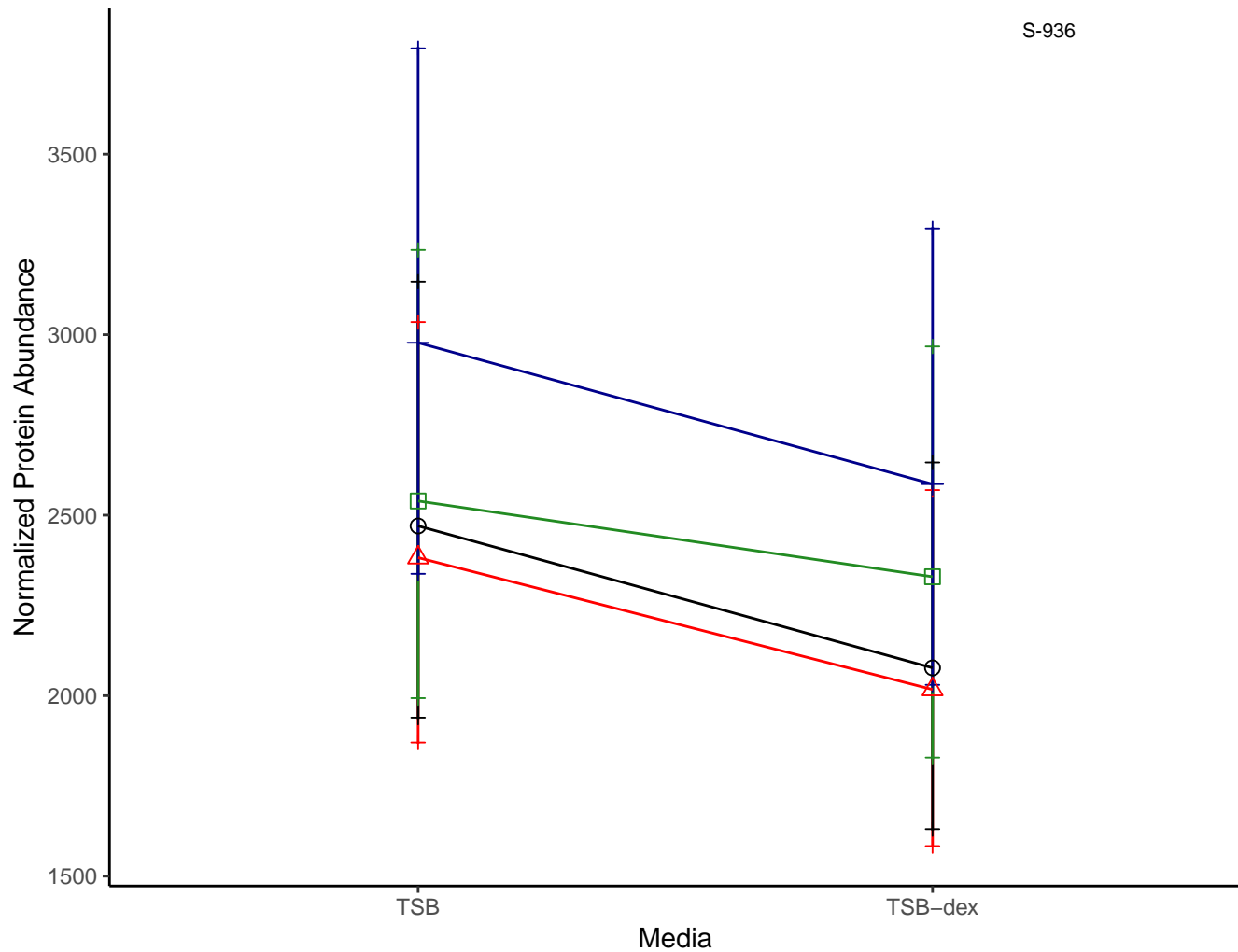
S-935



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# TRPF\_STAAM

S-936

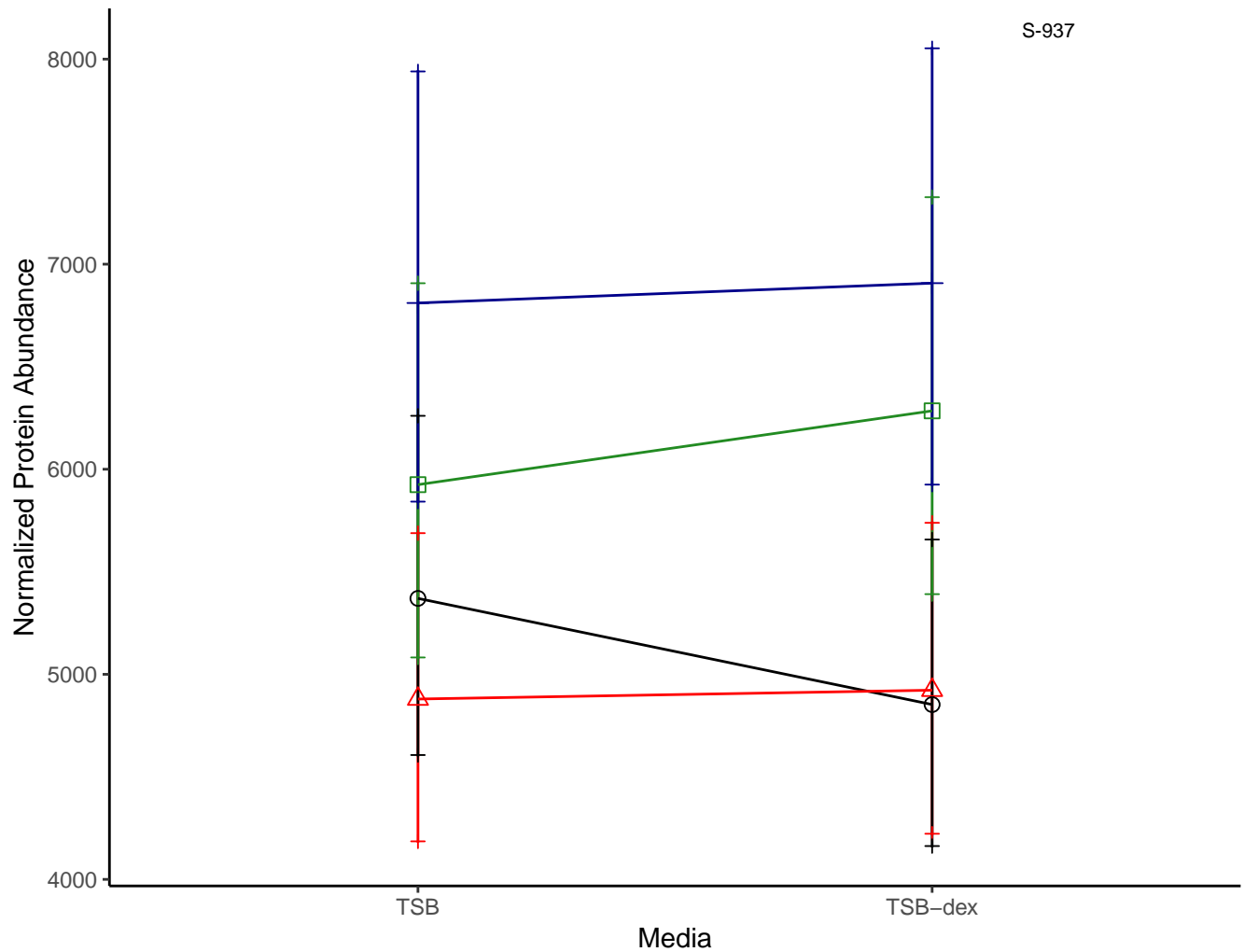


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# TRUB\_STAAM

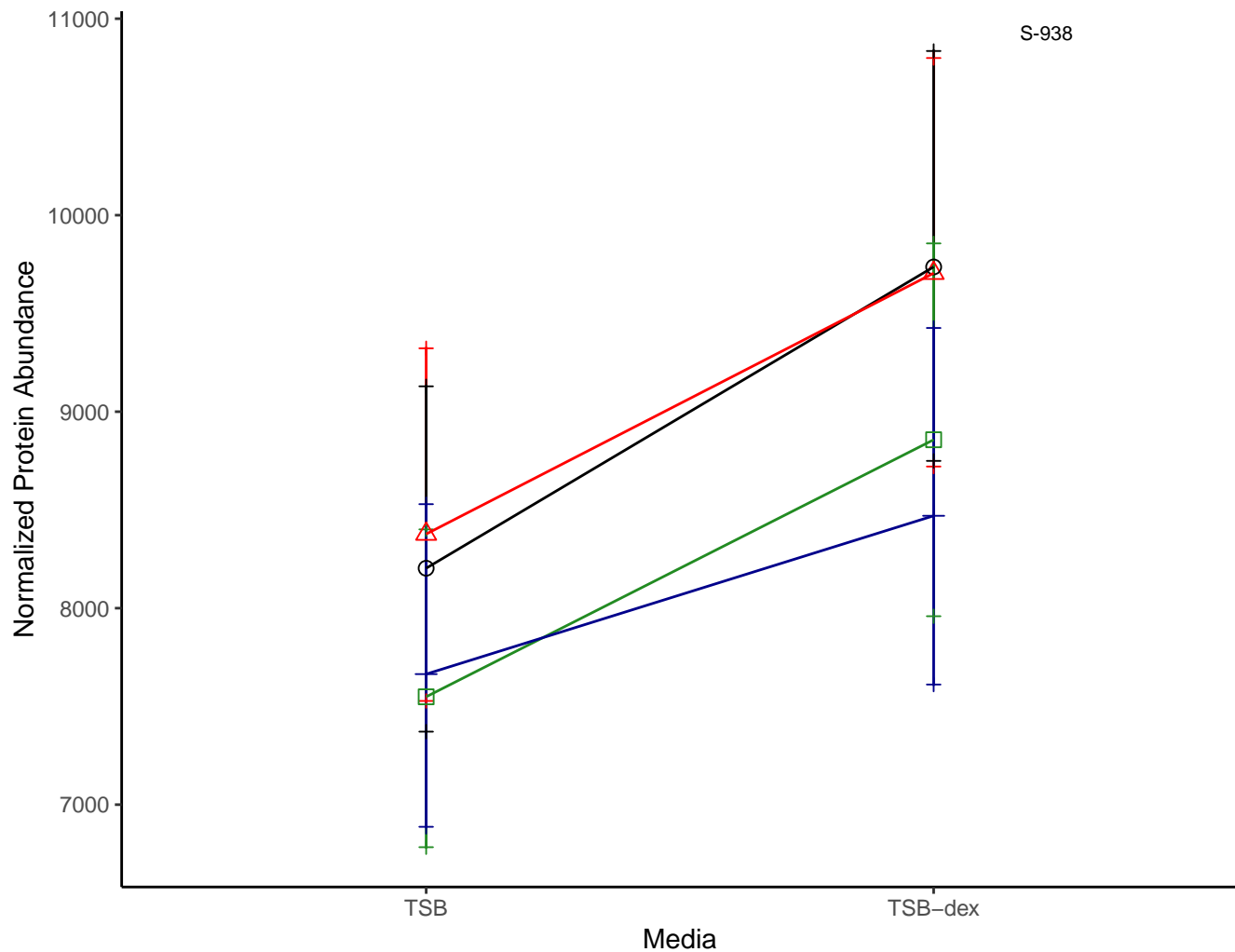
S-937



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRXB\_STAAM

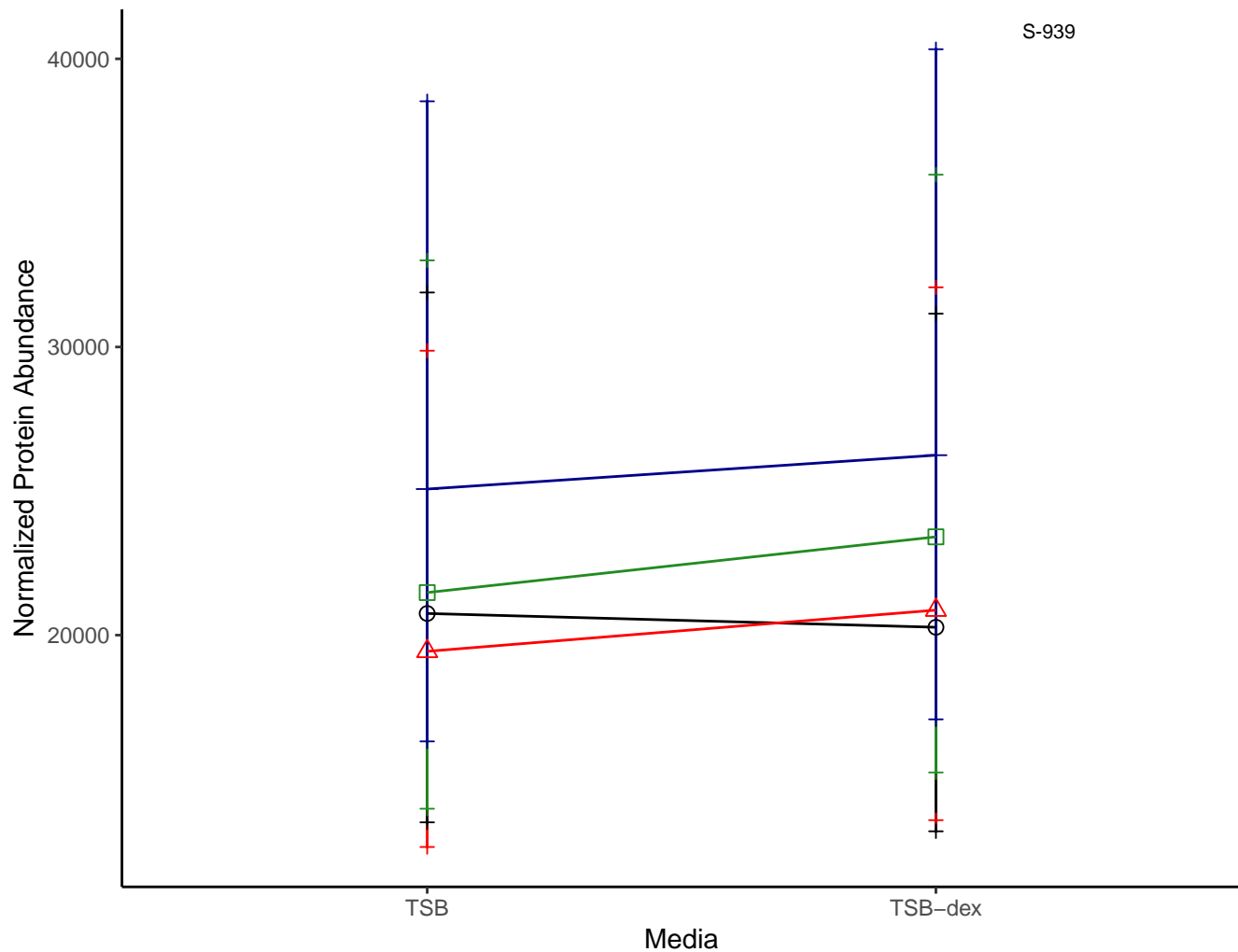
S-938



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TSAD\_STAAM

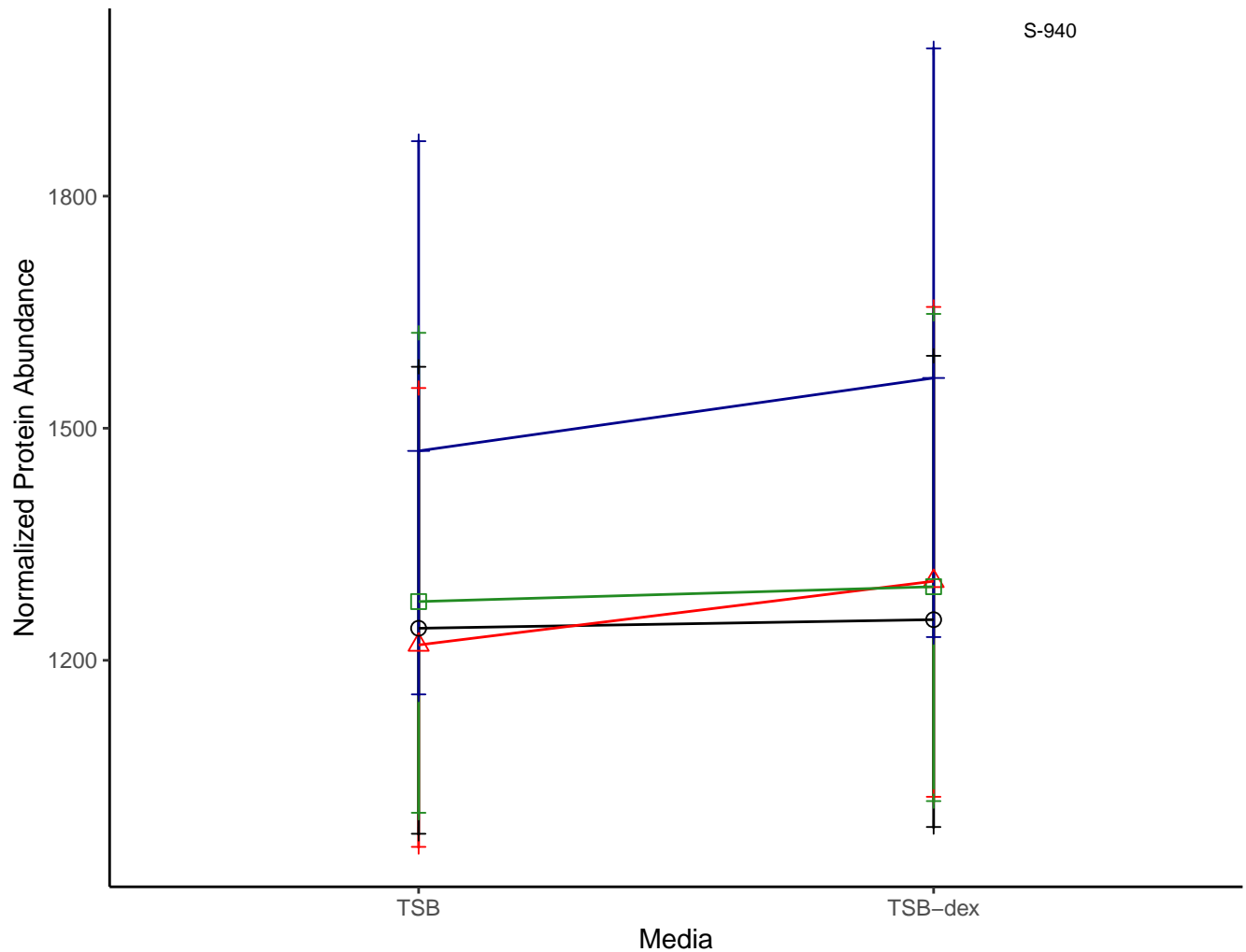
S-939



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TYRA\_STAAM

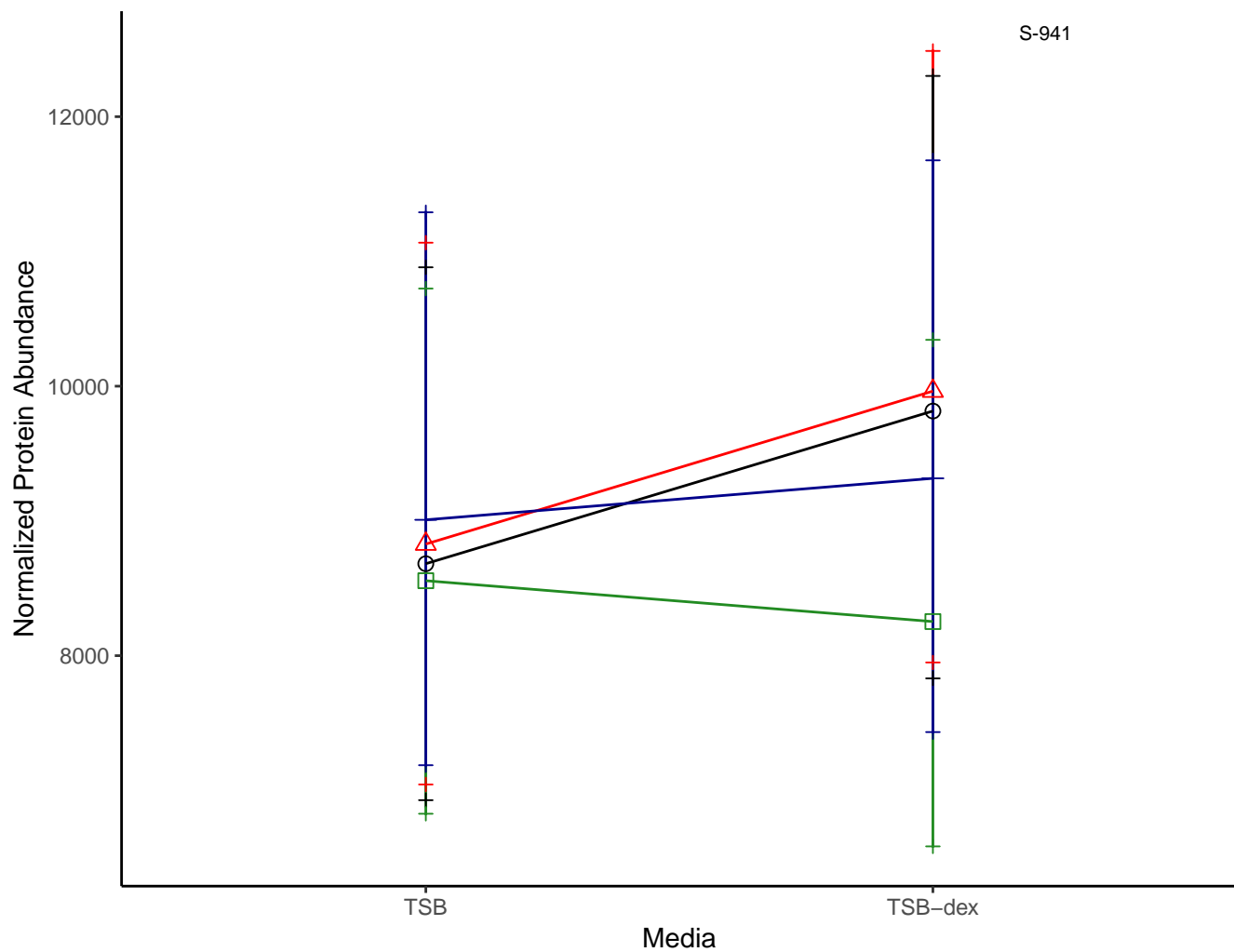
S-940



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊠ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TYSY\_STAAM

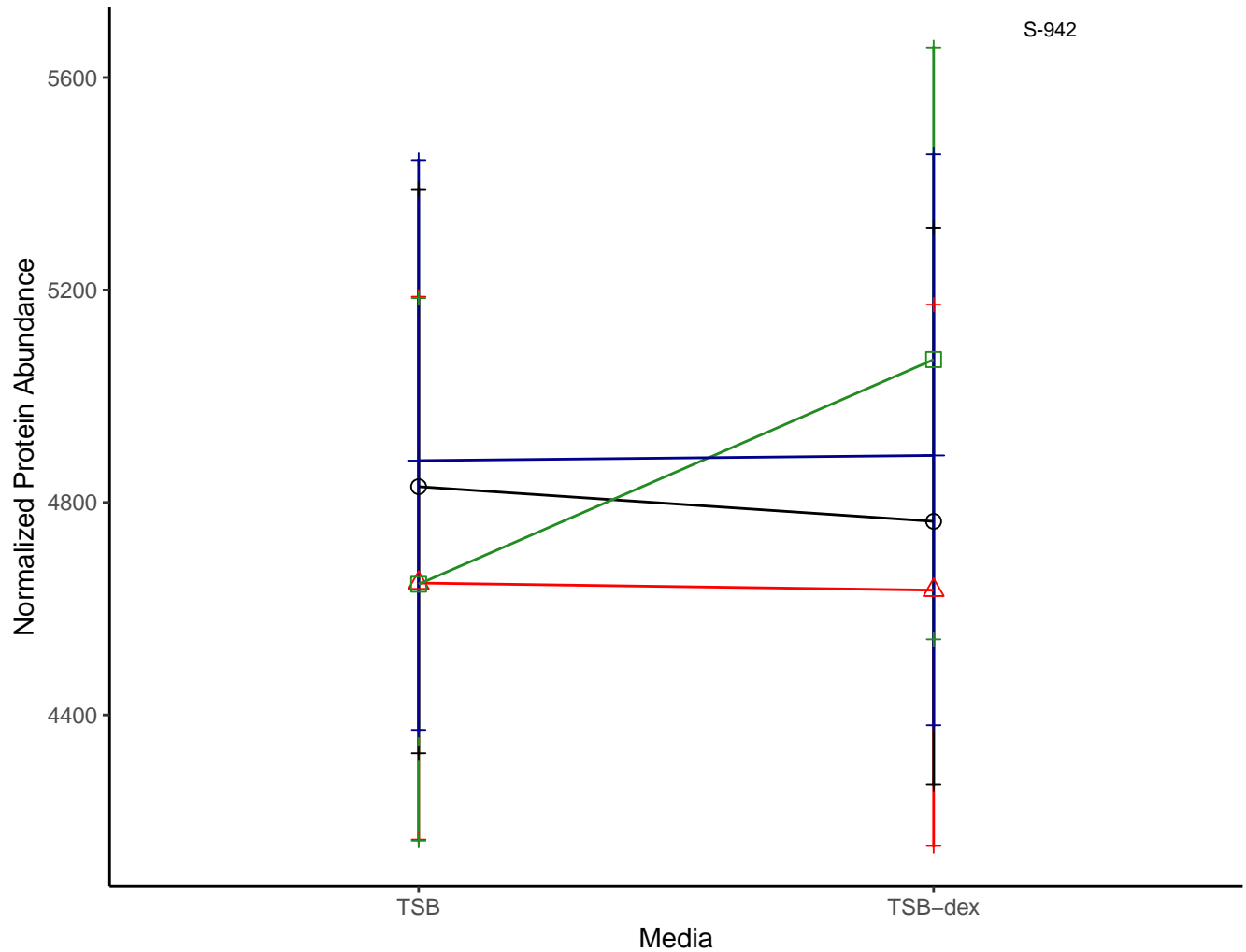
S-941



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UNG\_STAAM

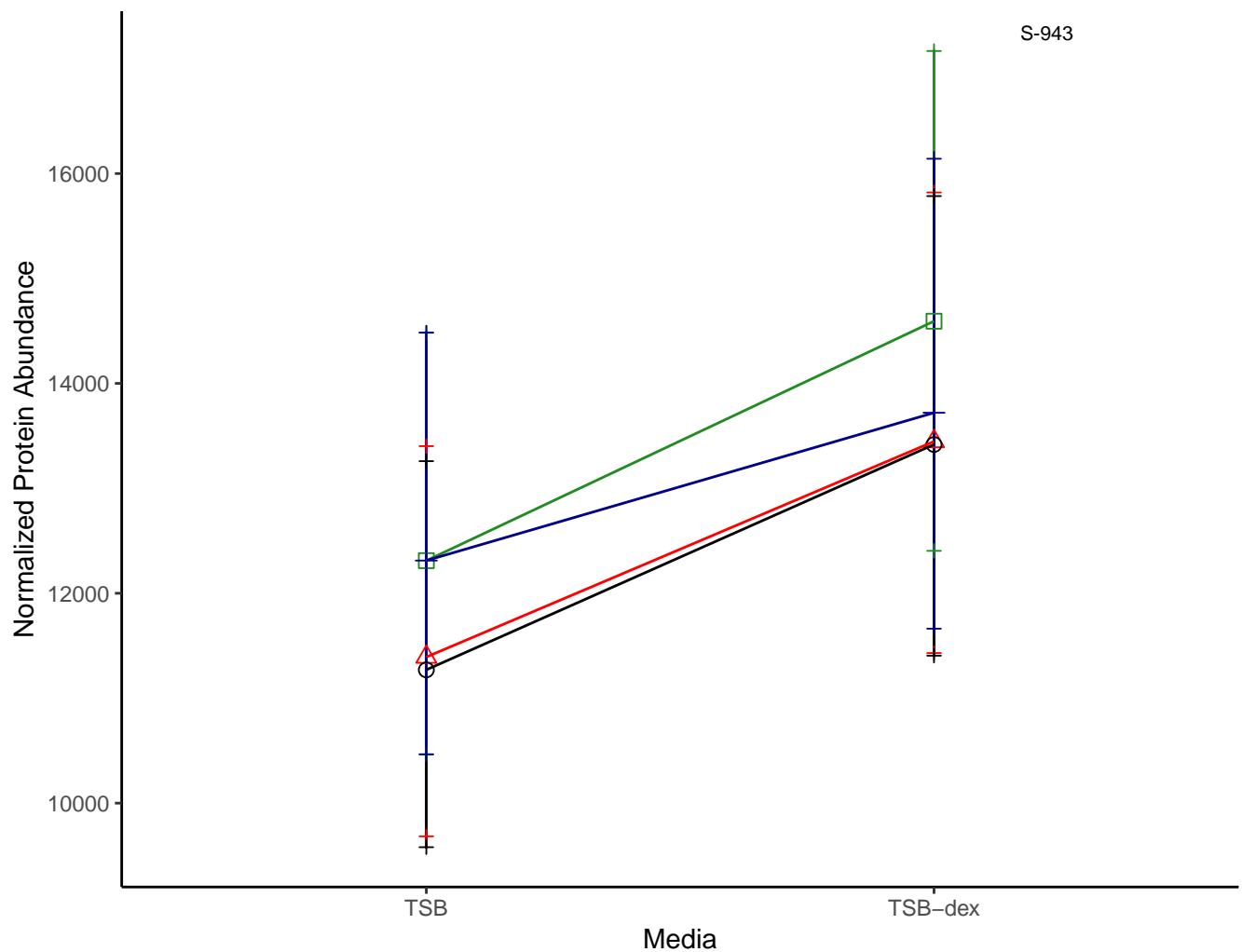
S-942



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊠ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# UP355\_STAAM

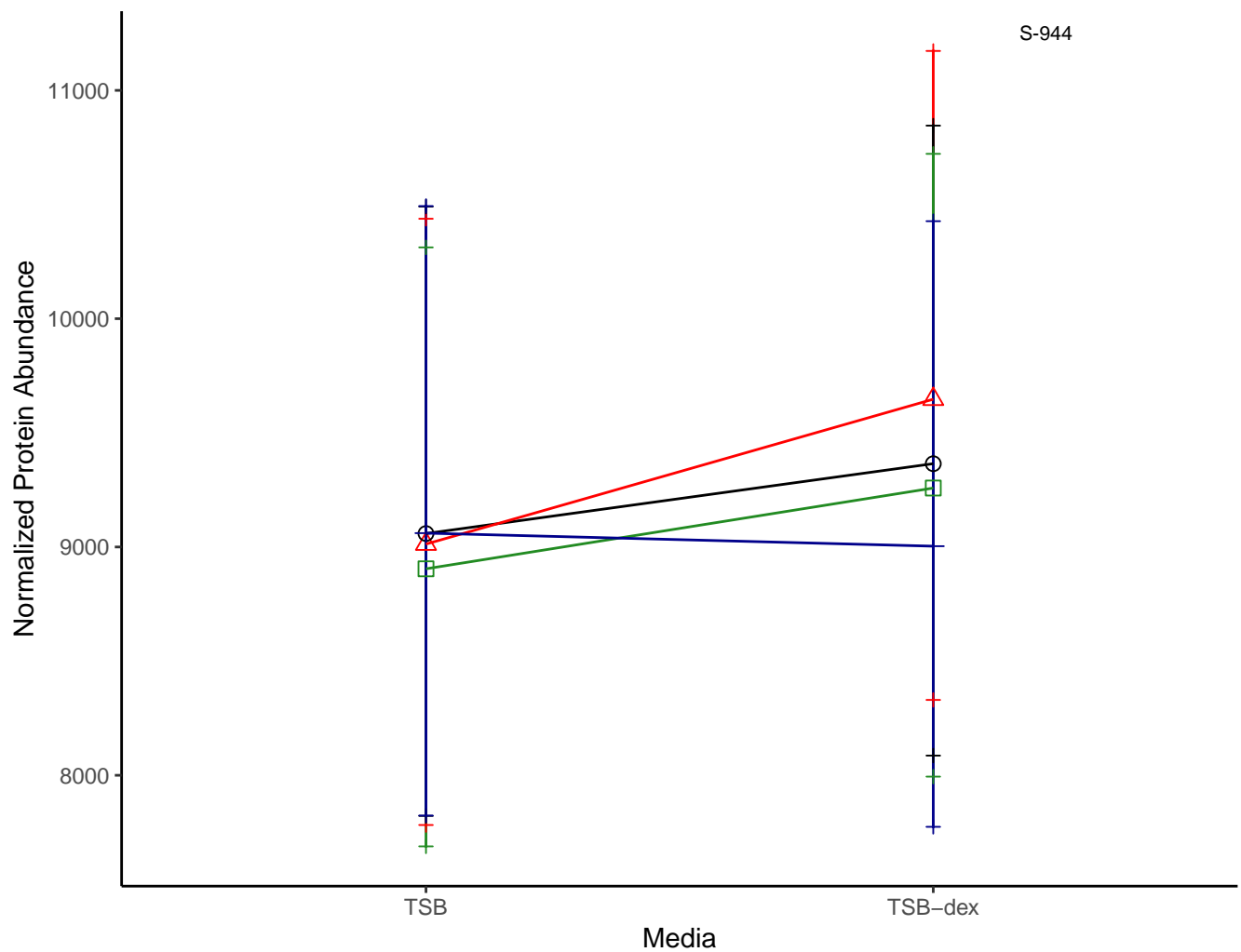
S-943



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UPP\_STAAM

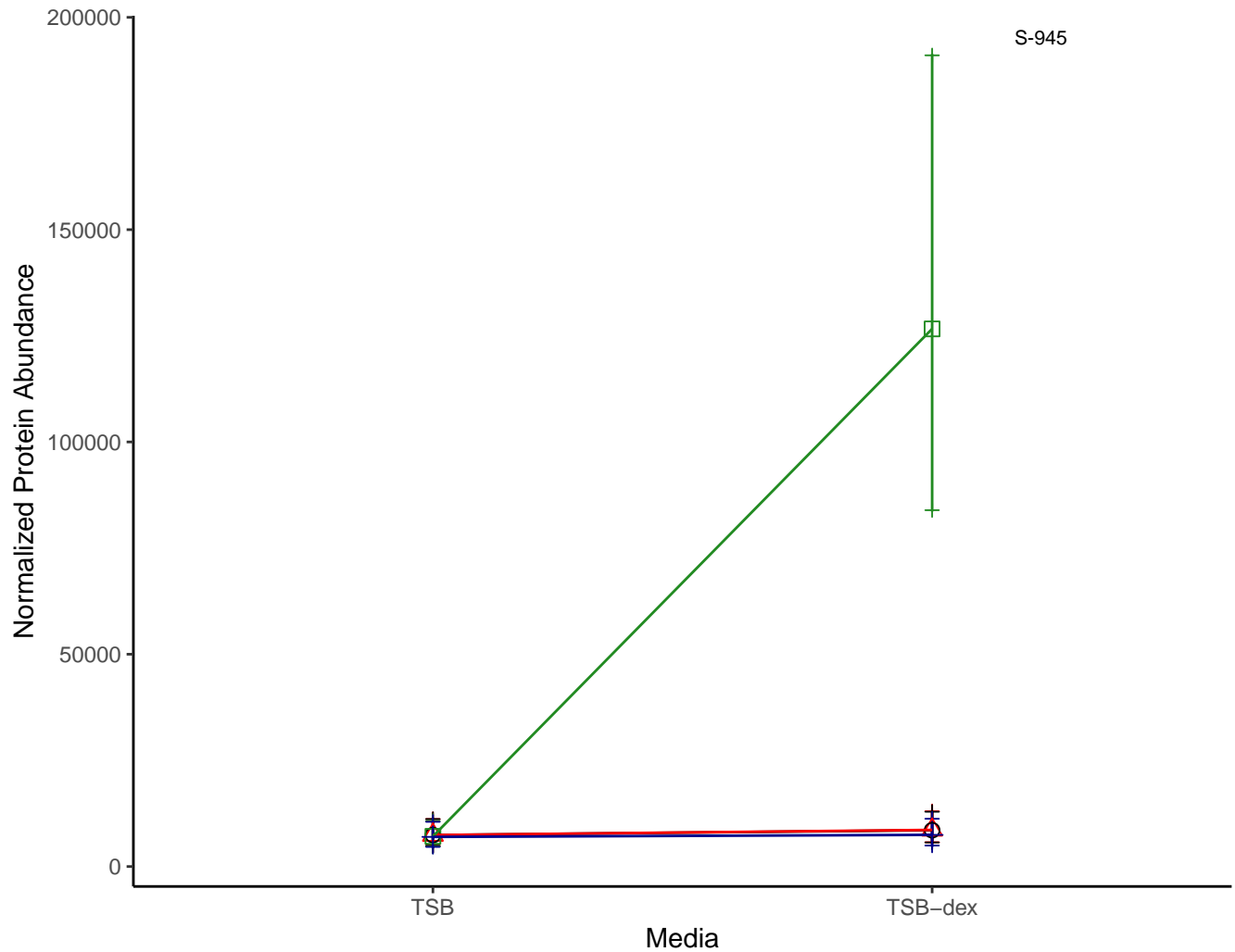
S-944



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



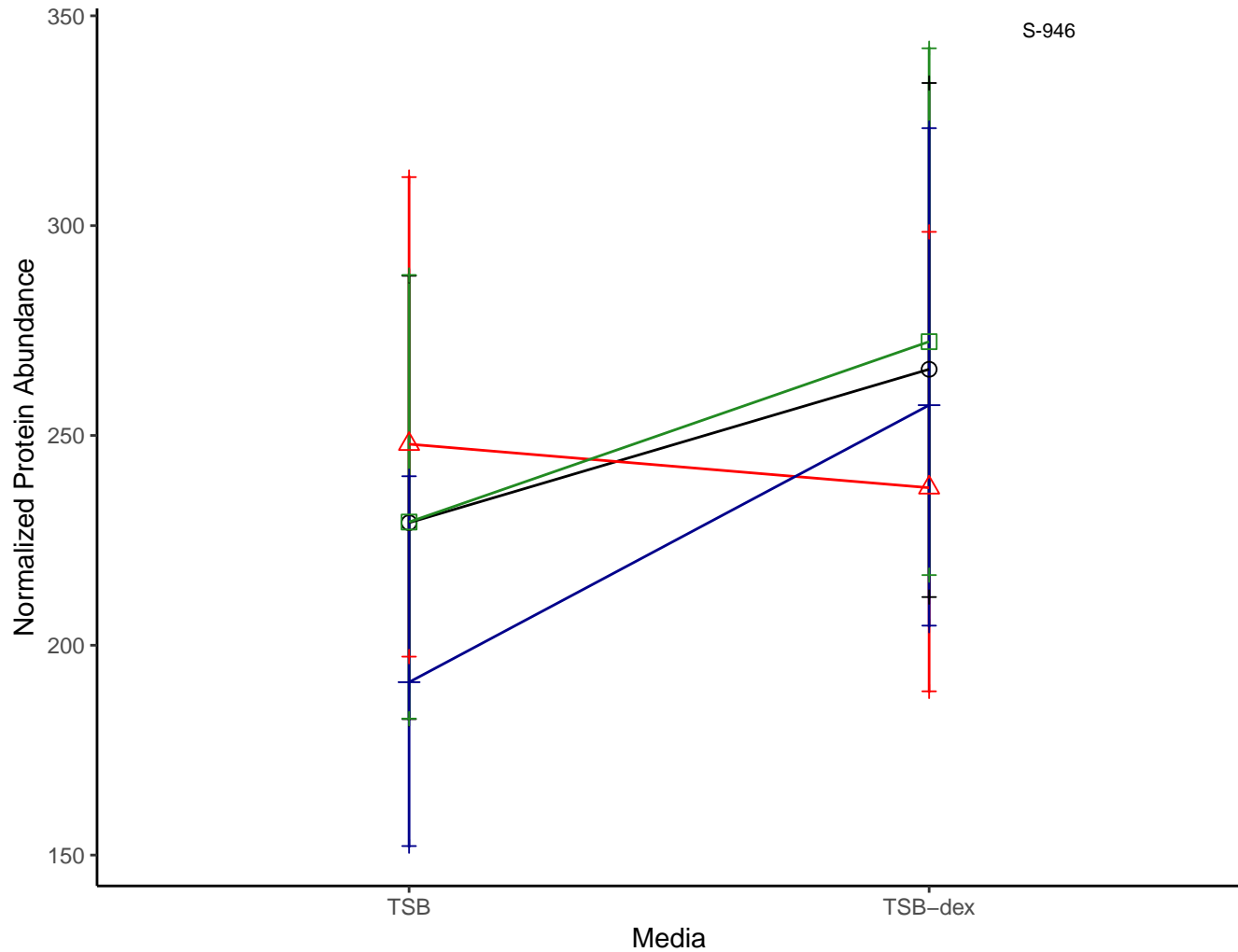
# UREE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# UREG\_STAAM

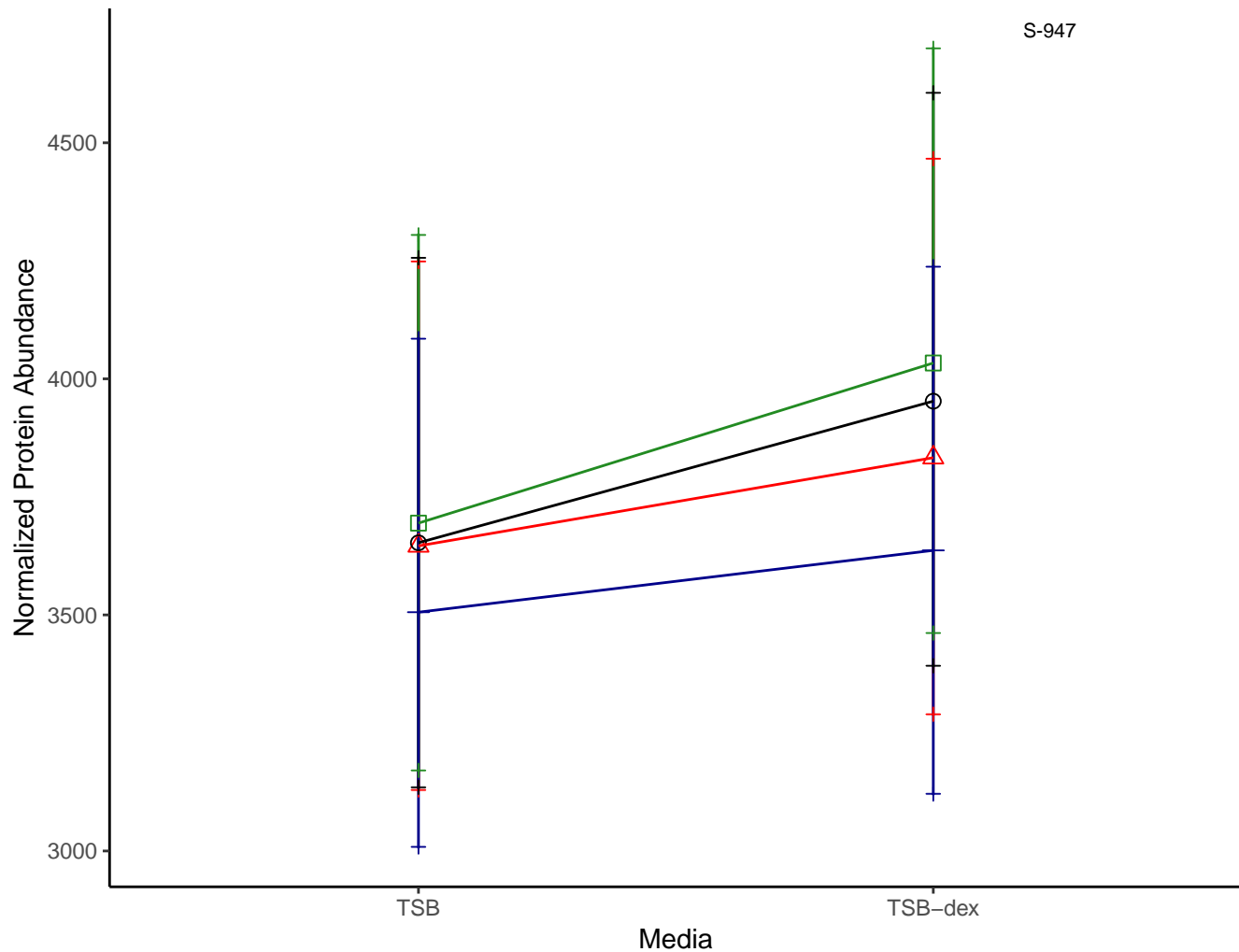
S-946



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# URK\_STAAM

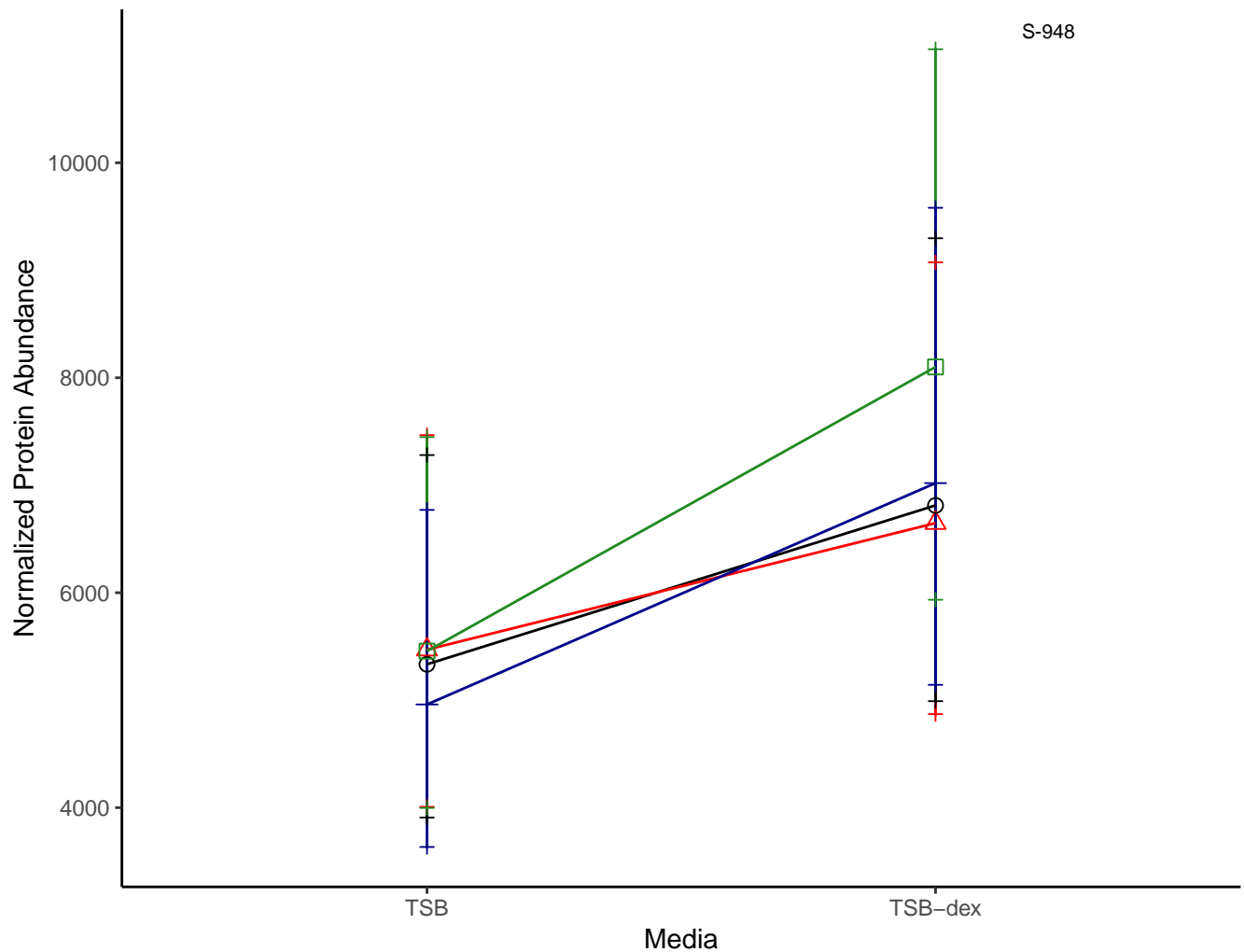
S-947



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊠ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# URTF\_STAAM

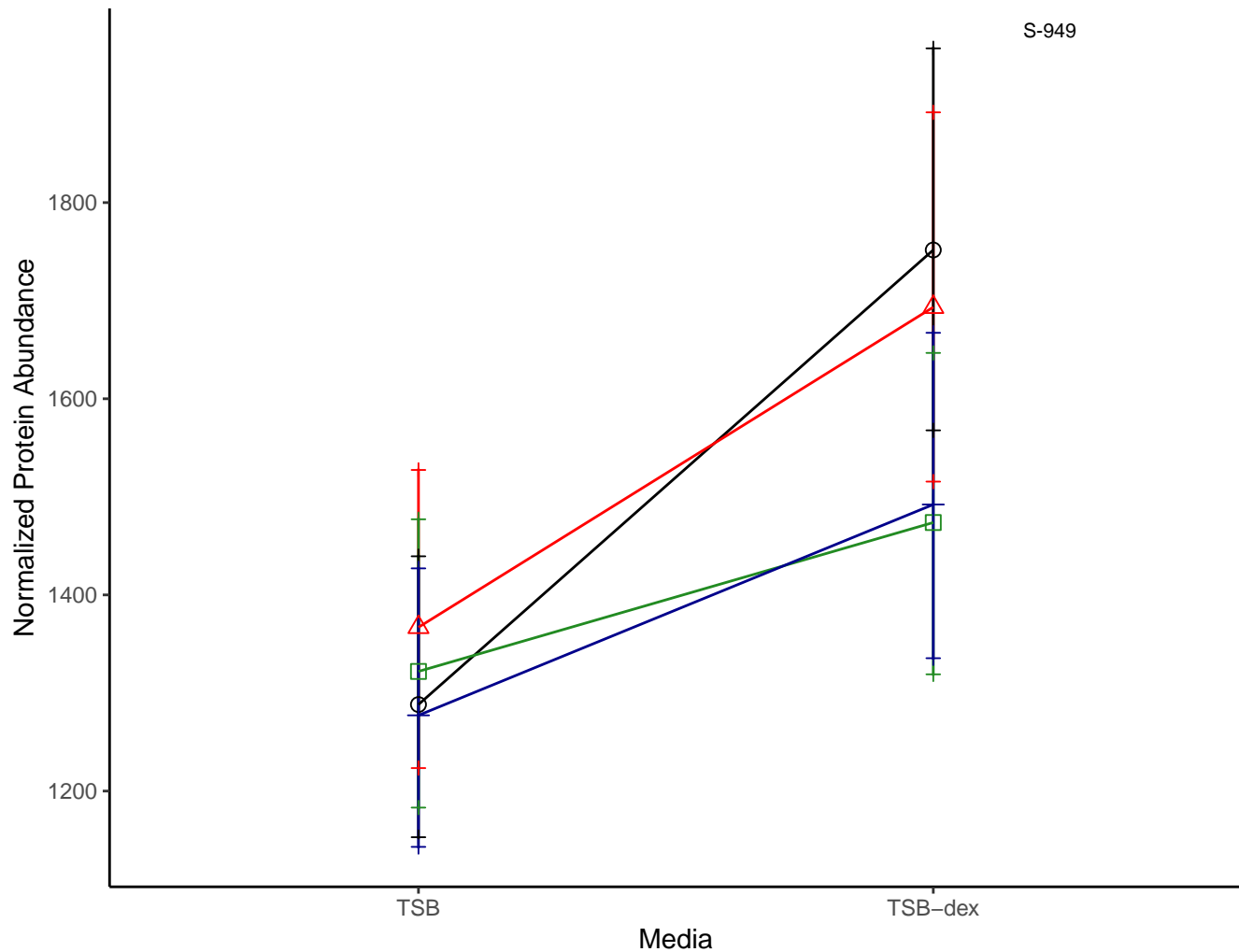
S-948



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UVRA\_STAAM

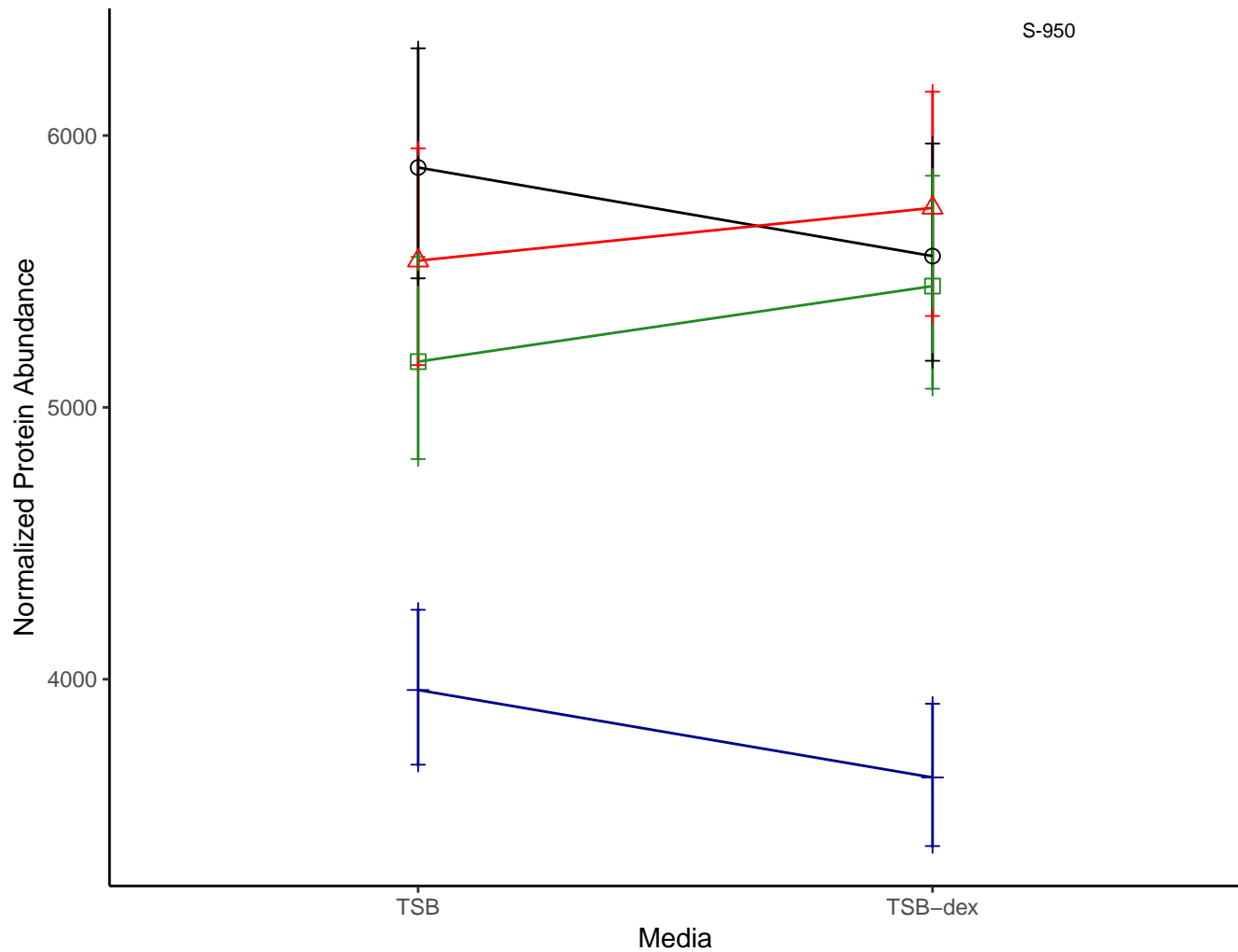
S-949



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# VRAC\_STAAM

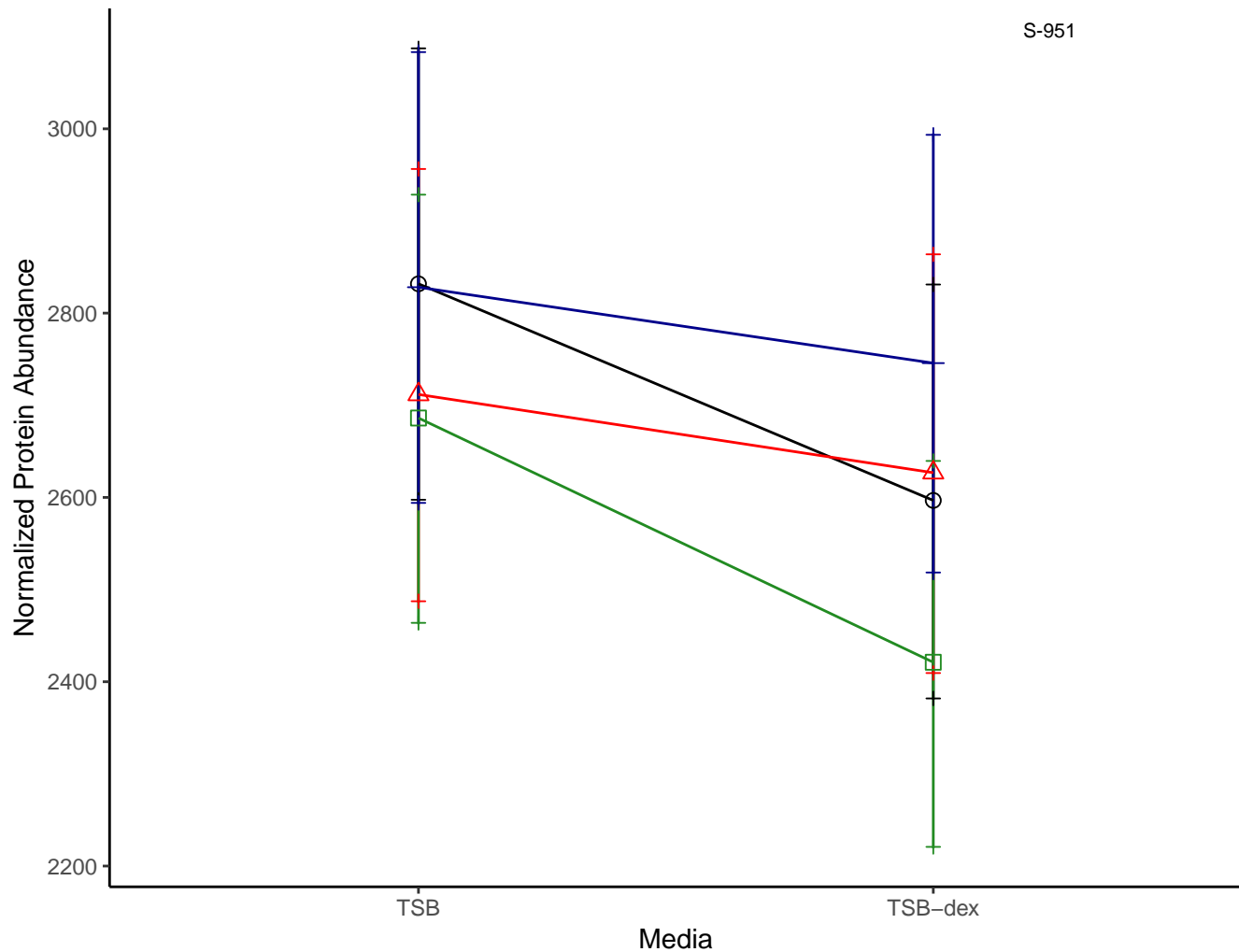
S-950



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- ⊕ SA564-ΔhptRS/ccpA

# VRAR\_STAAM

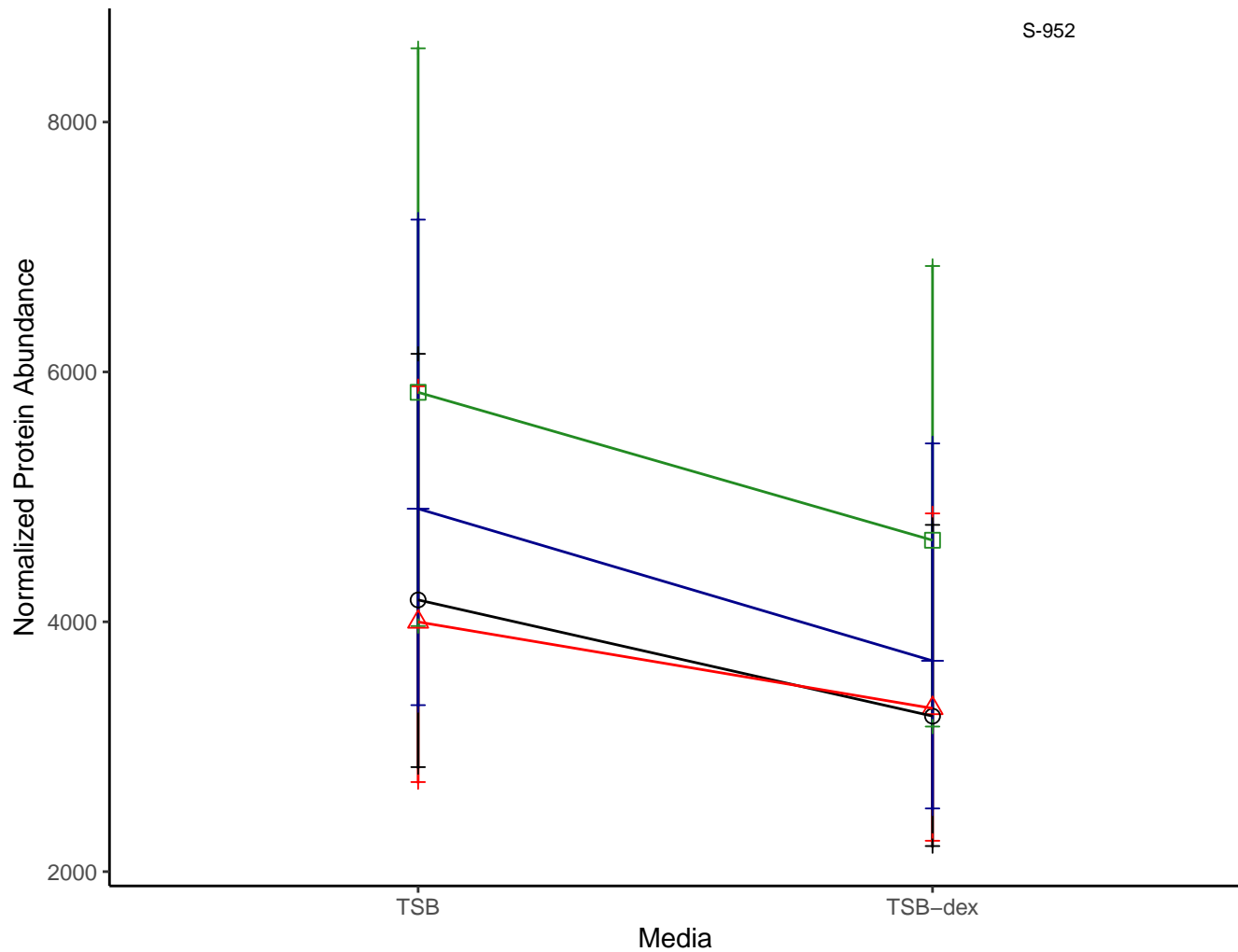
S-951



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# WALK\_STAAM

S-952

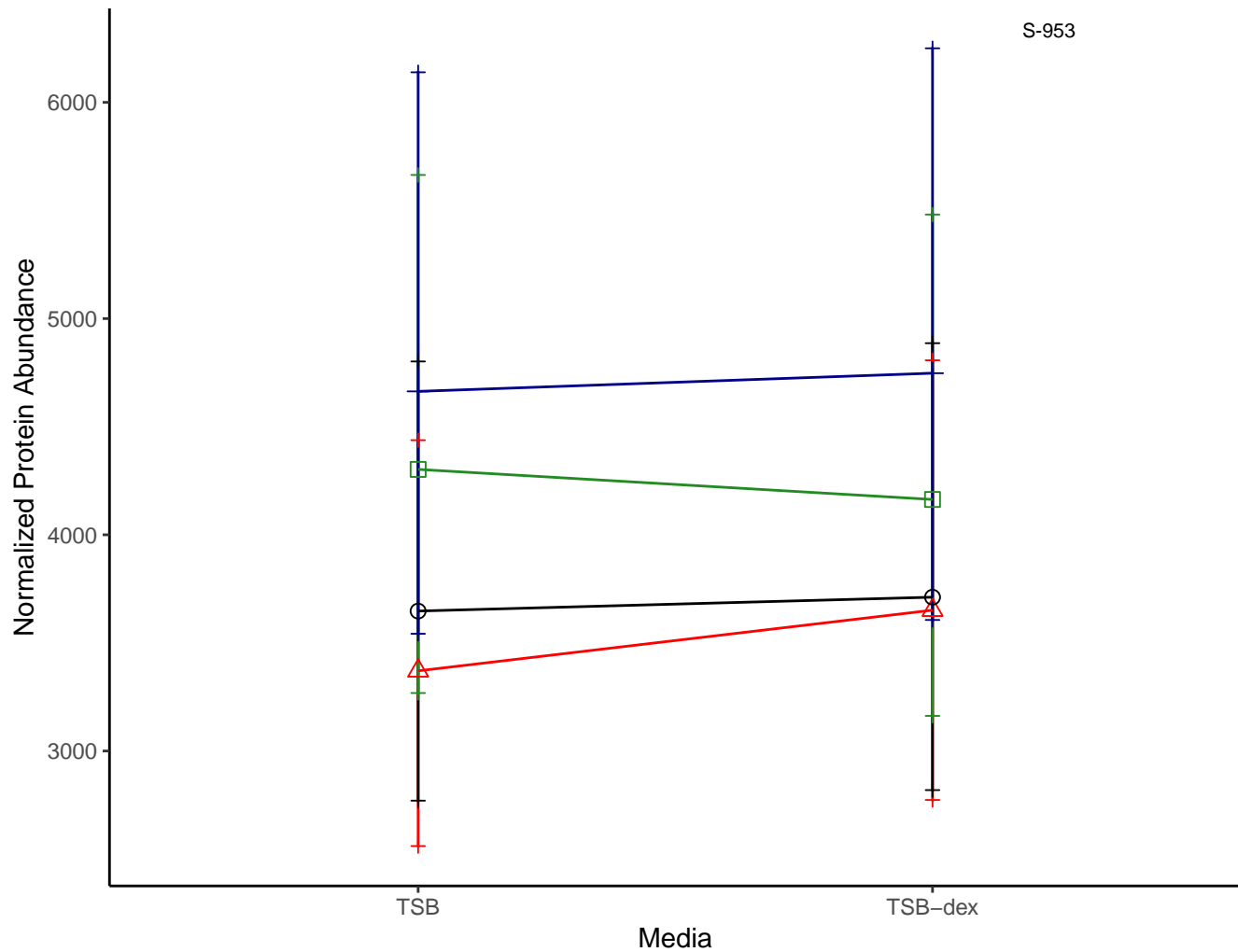


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# WALR\_STAAM

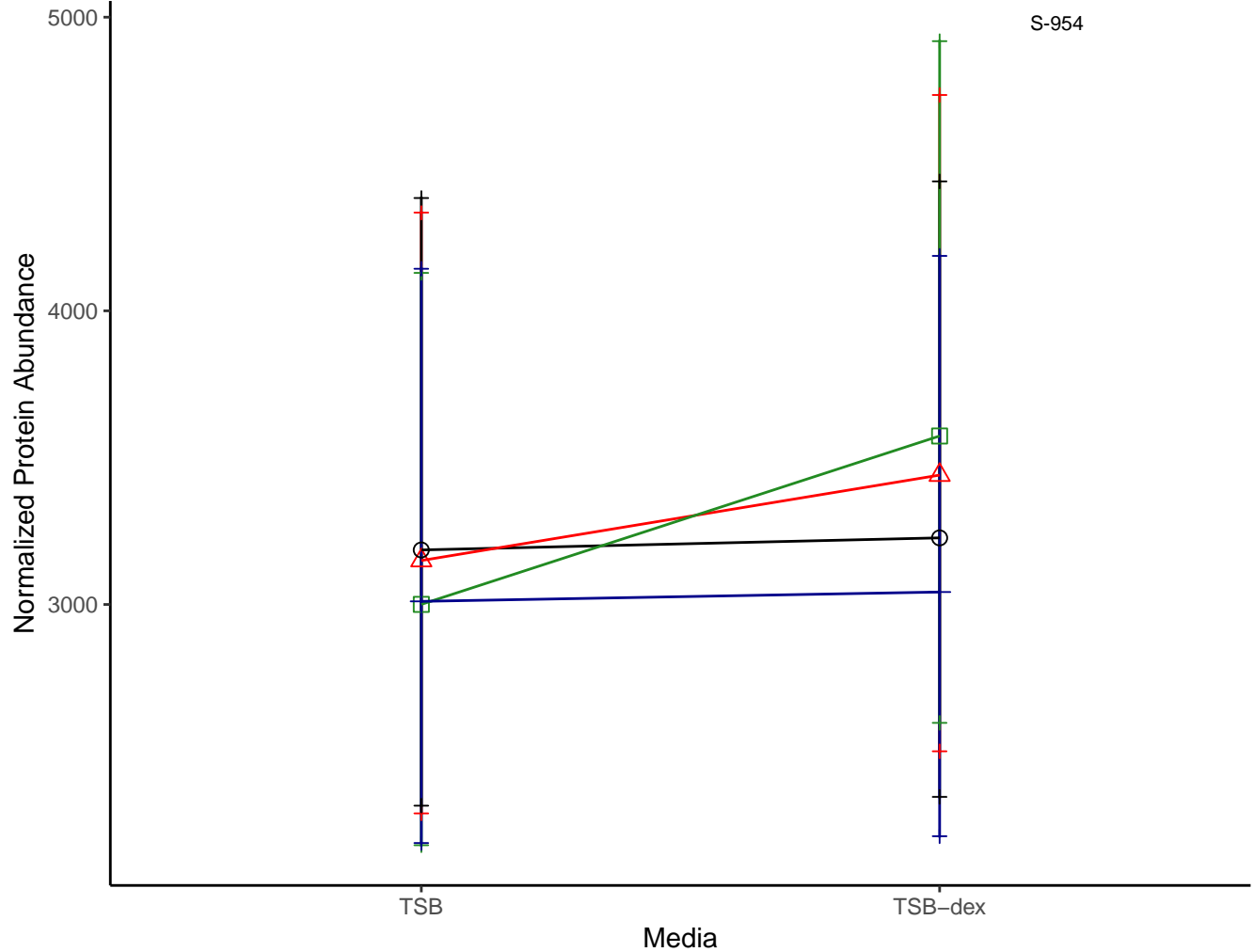
S-953



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# XERD\_STAAM

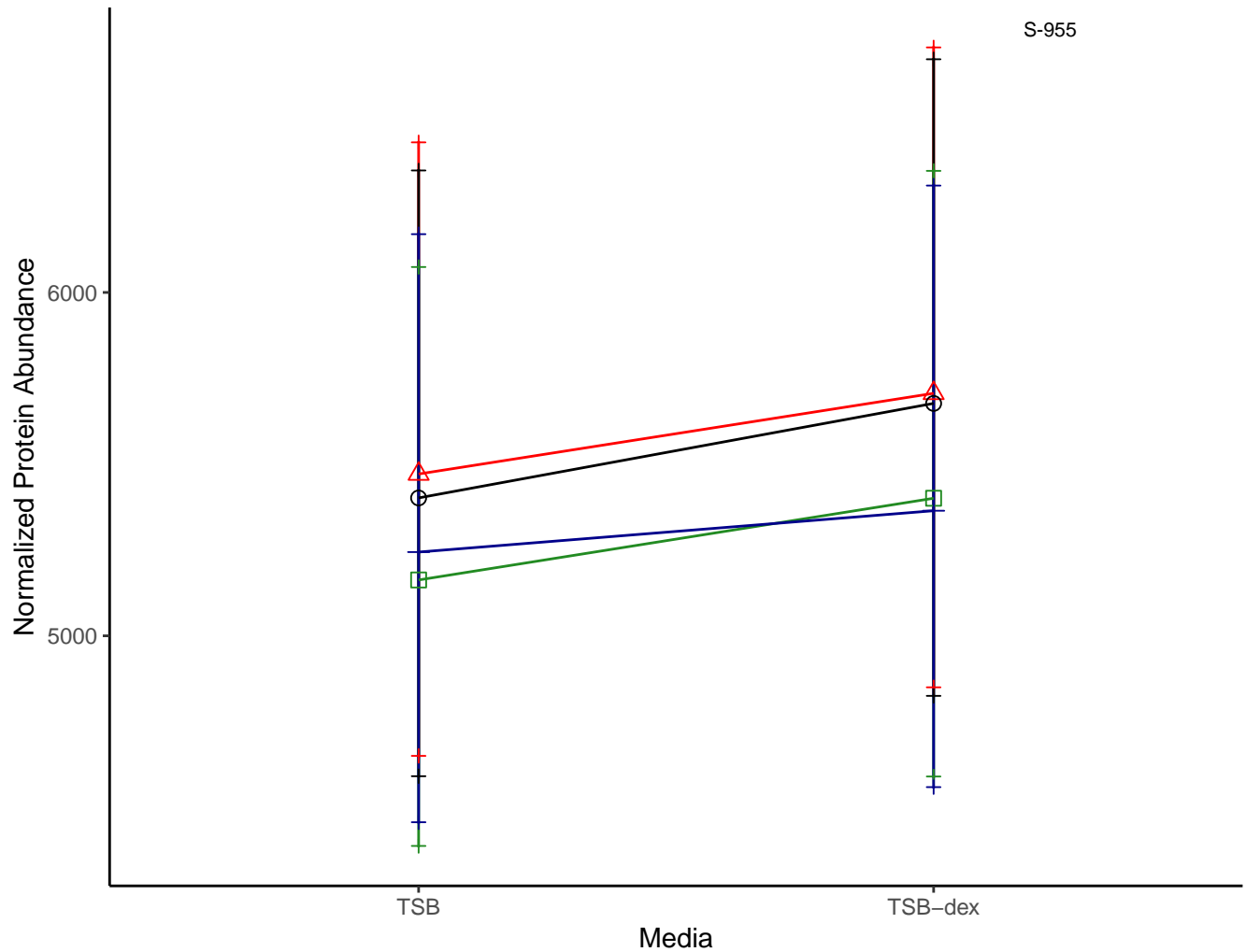
S-954



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# XPT\_STAAM

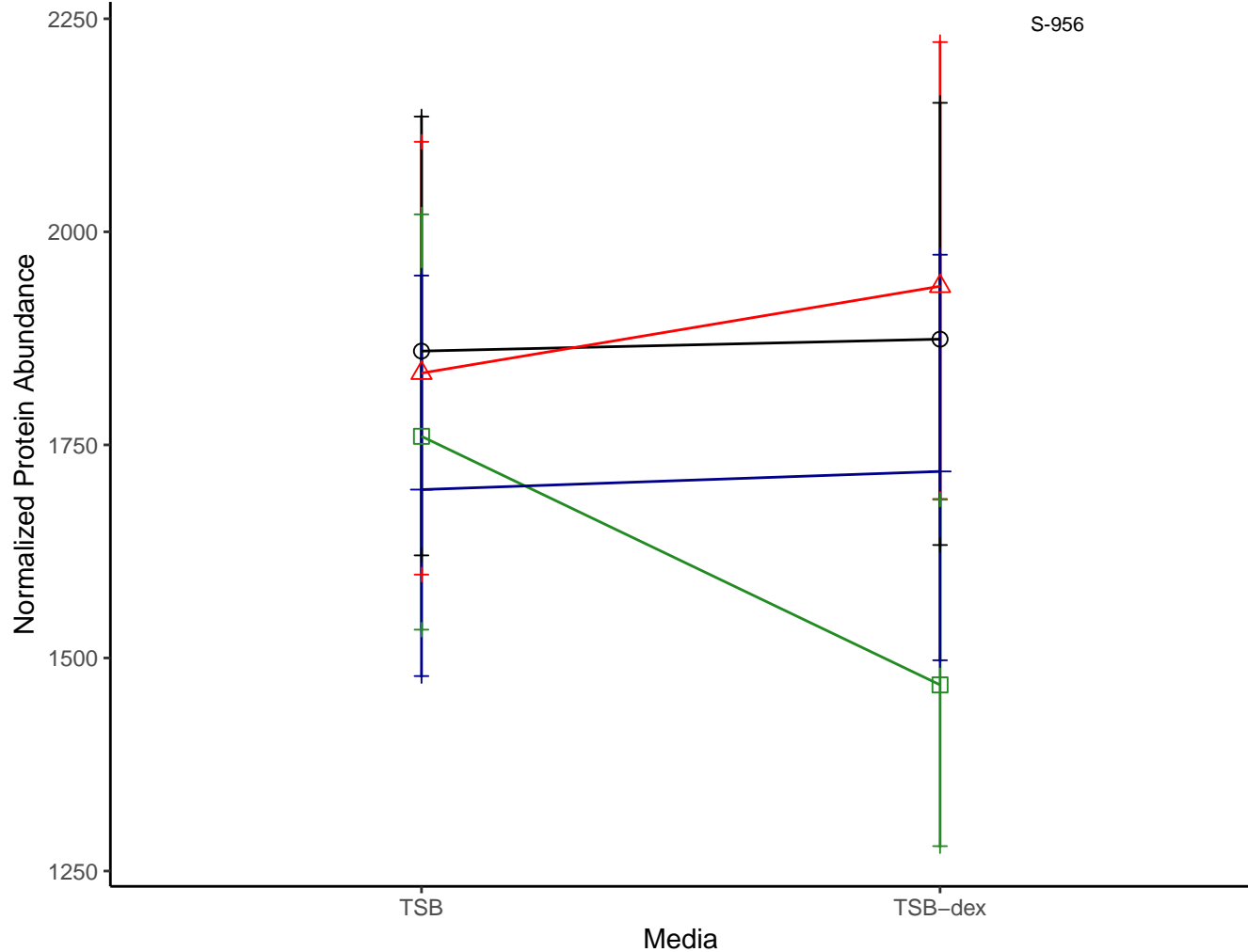
S-955



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y098\_STAAM

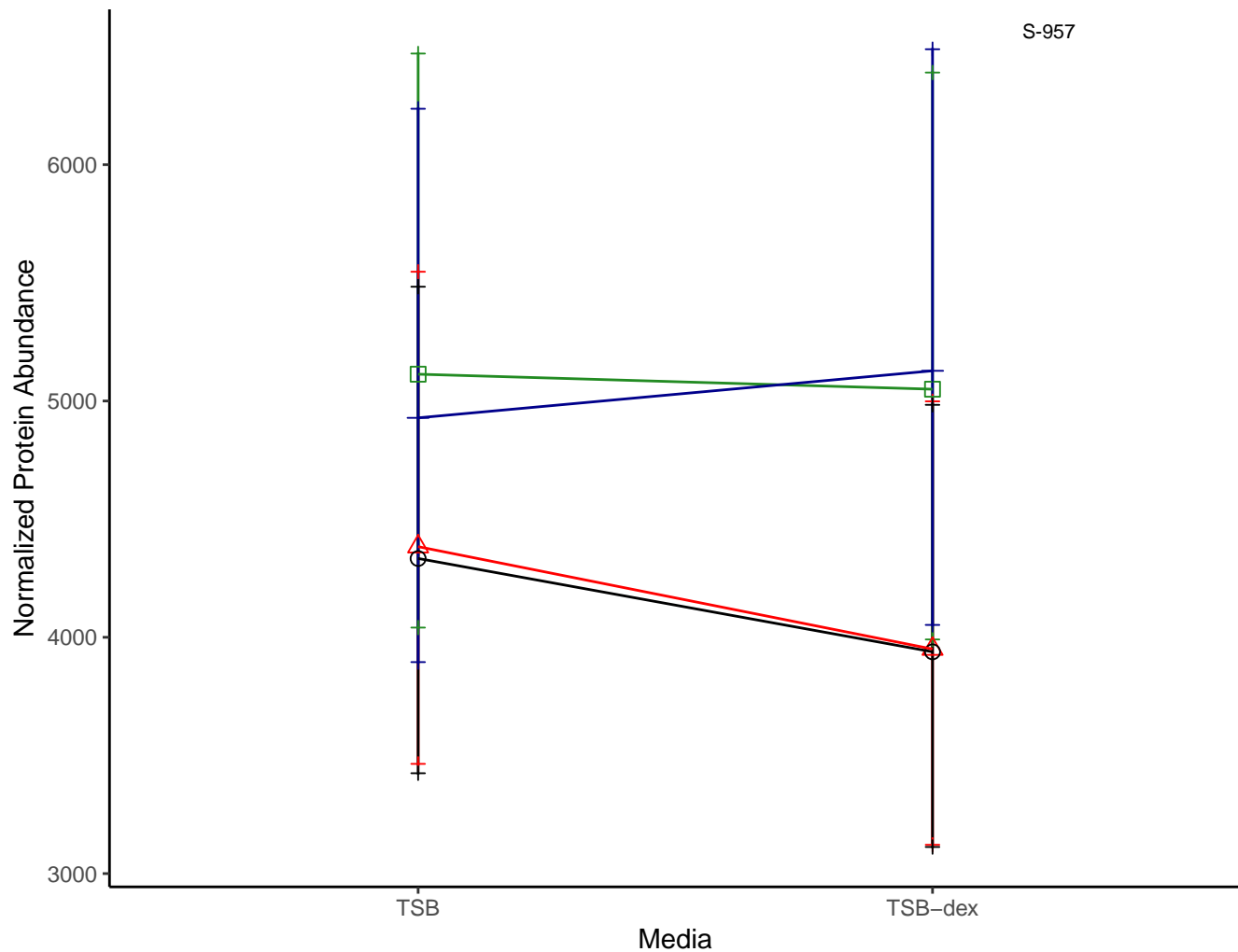
S-956



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y099\_STAAM

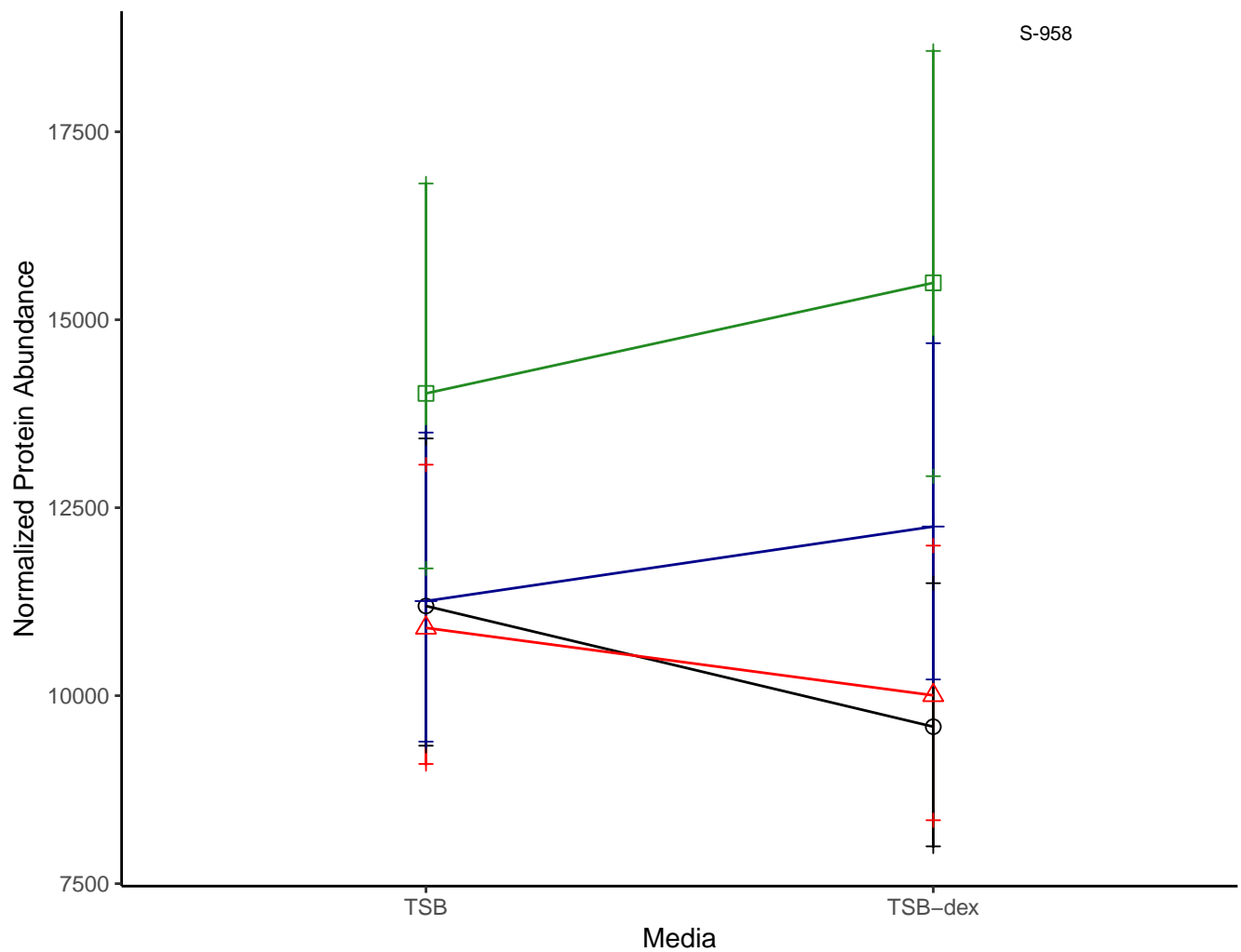
S-957



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1015\_STAAM

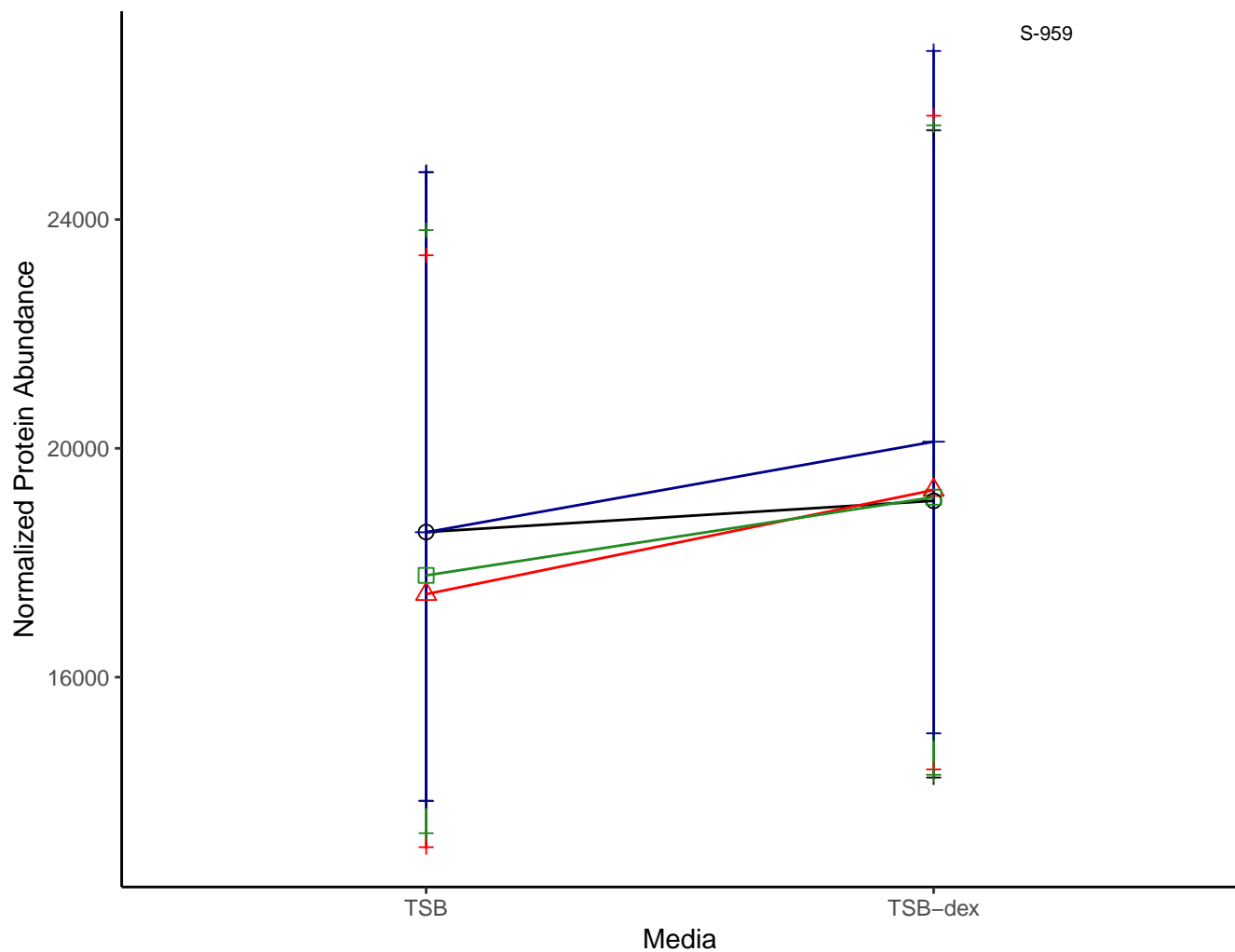
S-958



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1090\_STAAM

S-959



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1176\_STAAM

S-960

Normalized Protein Abundance

20000

15000

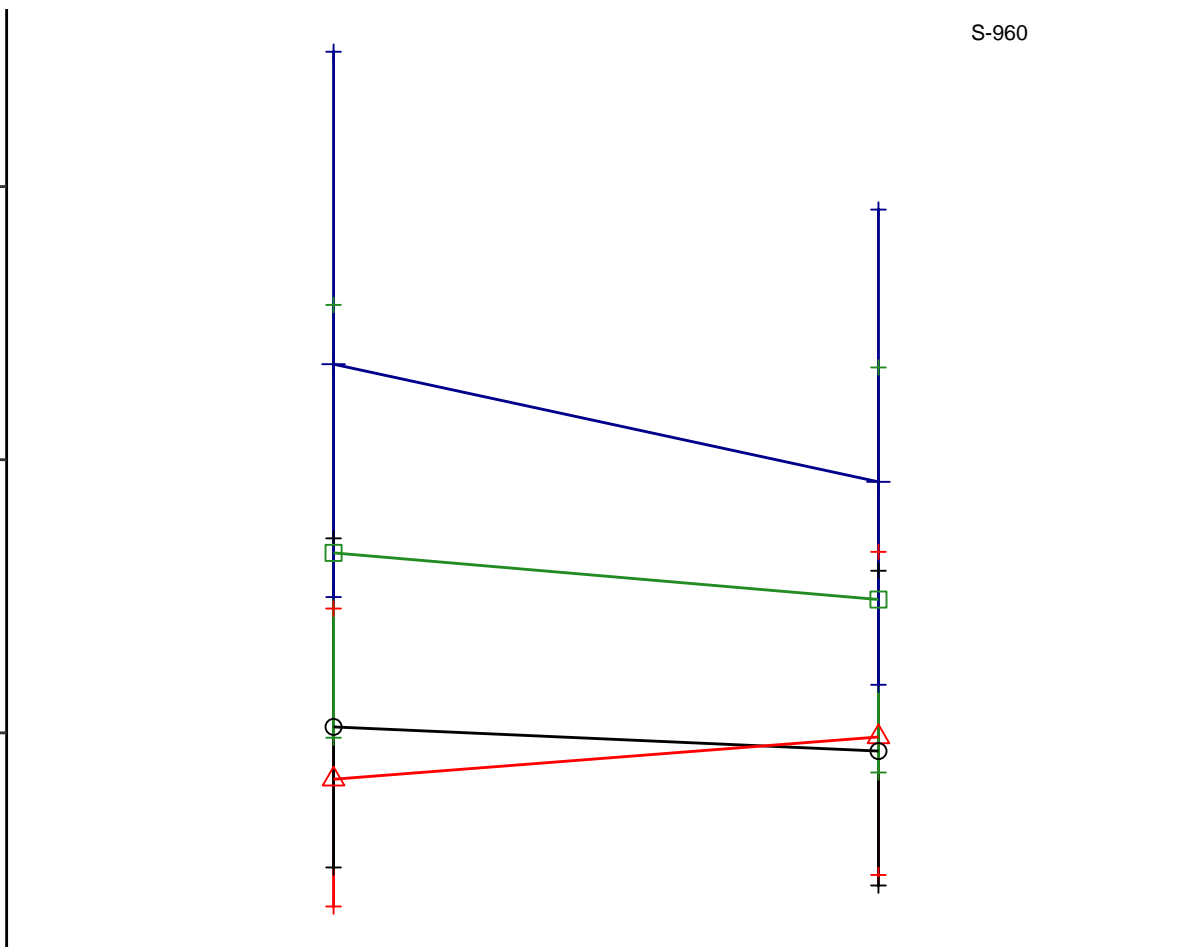
10000

TSB

TSB-dex

Media

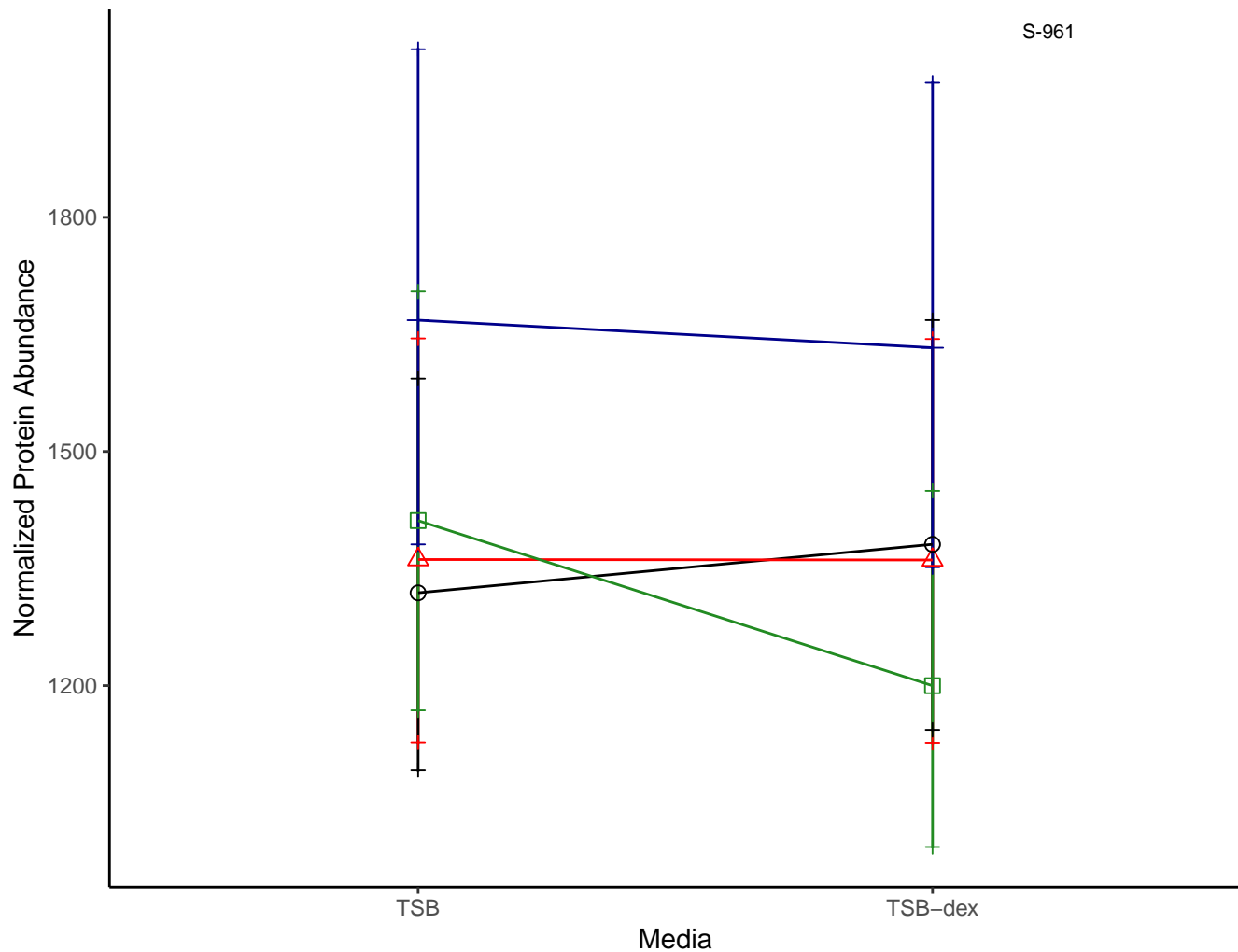
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*





## Y1177\_STAAM

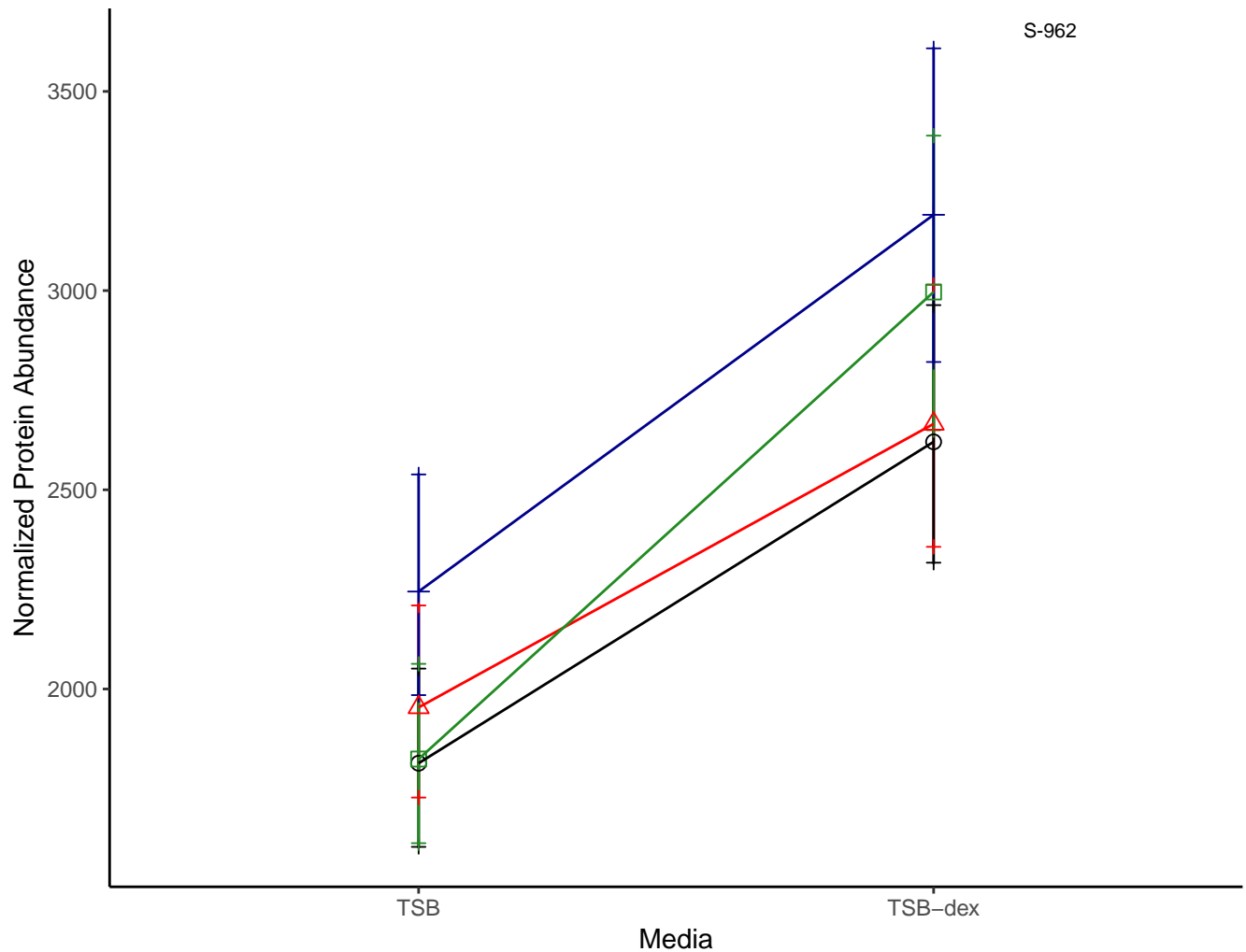
S-961



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊠ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1187\_STAAM

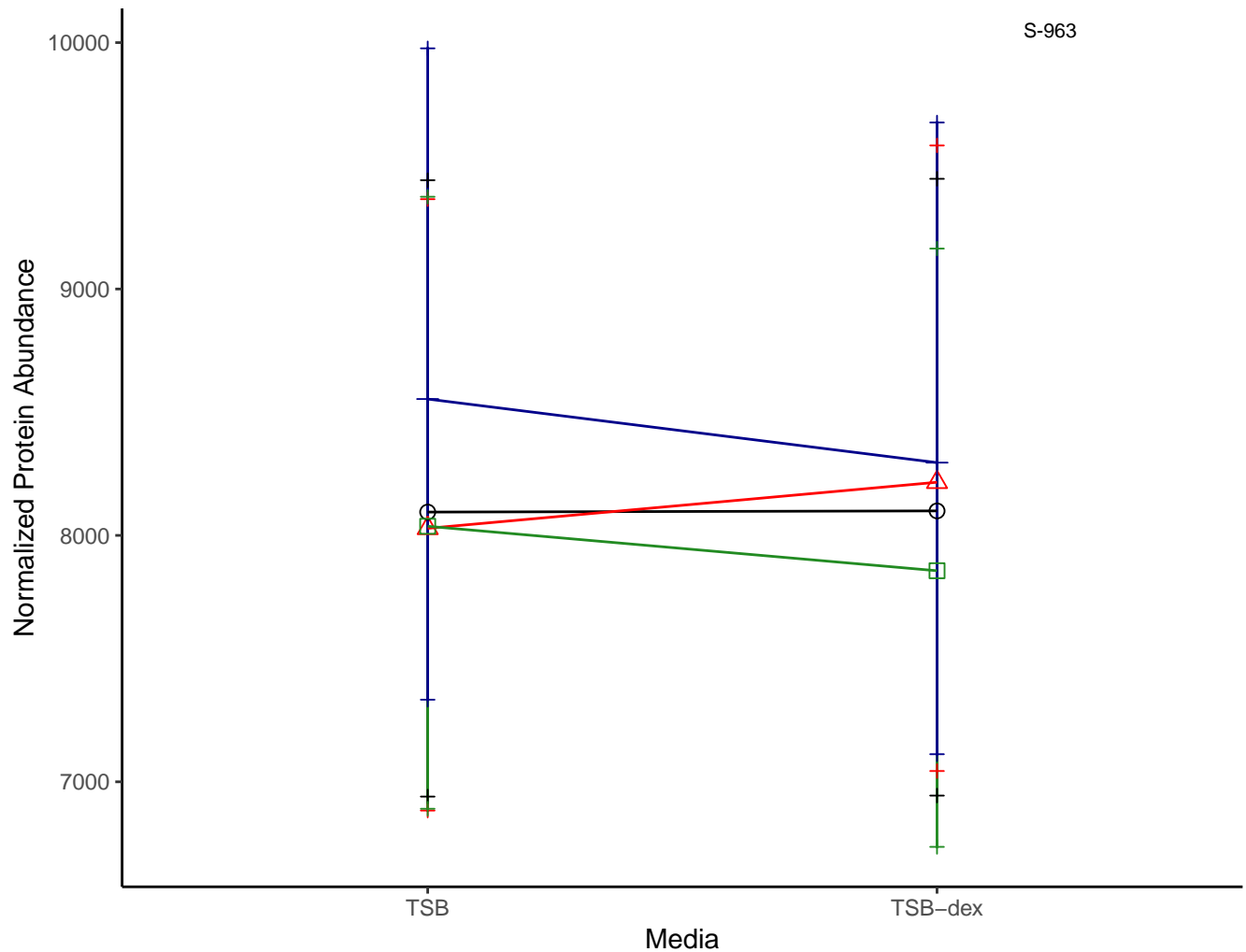
S-962



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1226\_STAAM

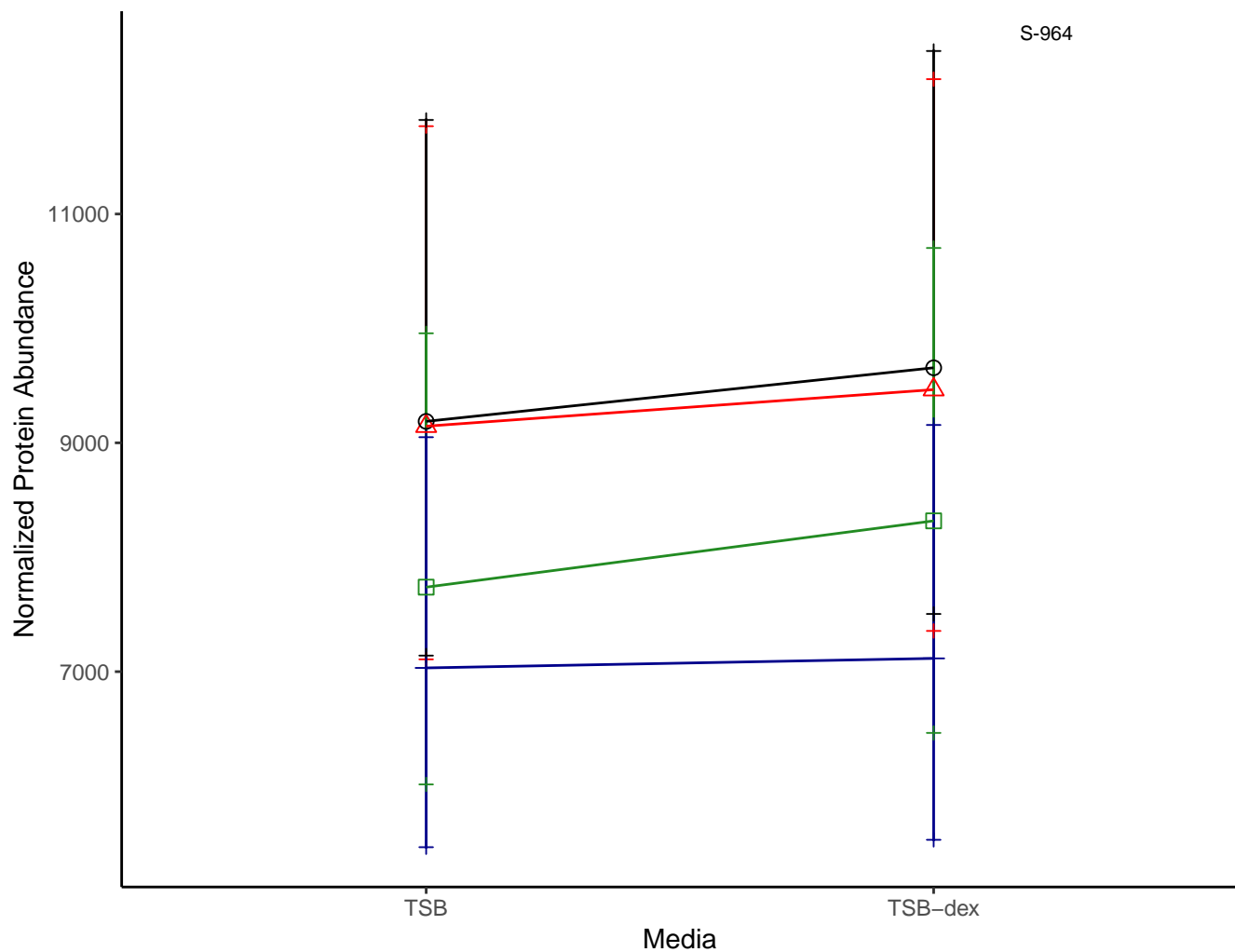
S-963



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y1341\_STAAM

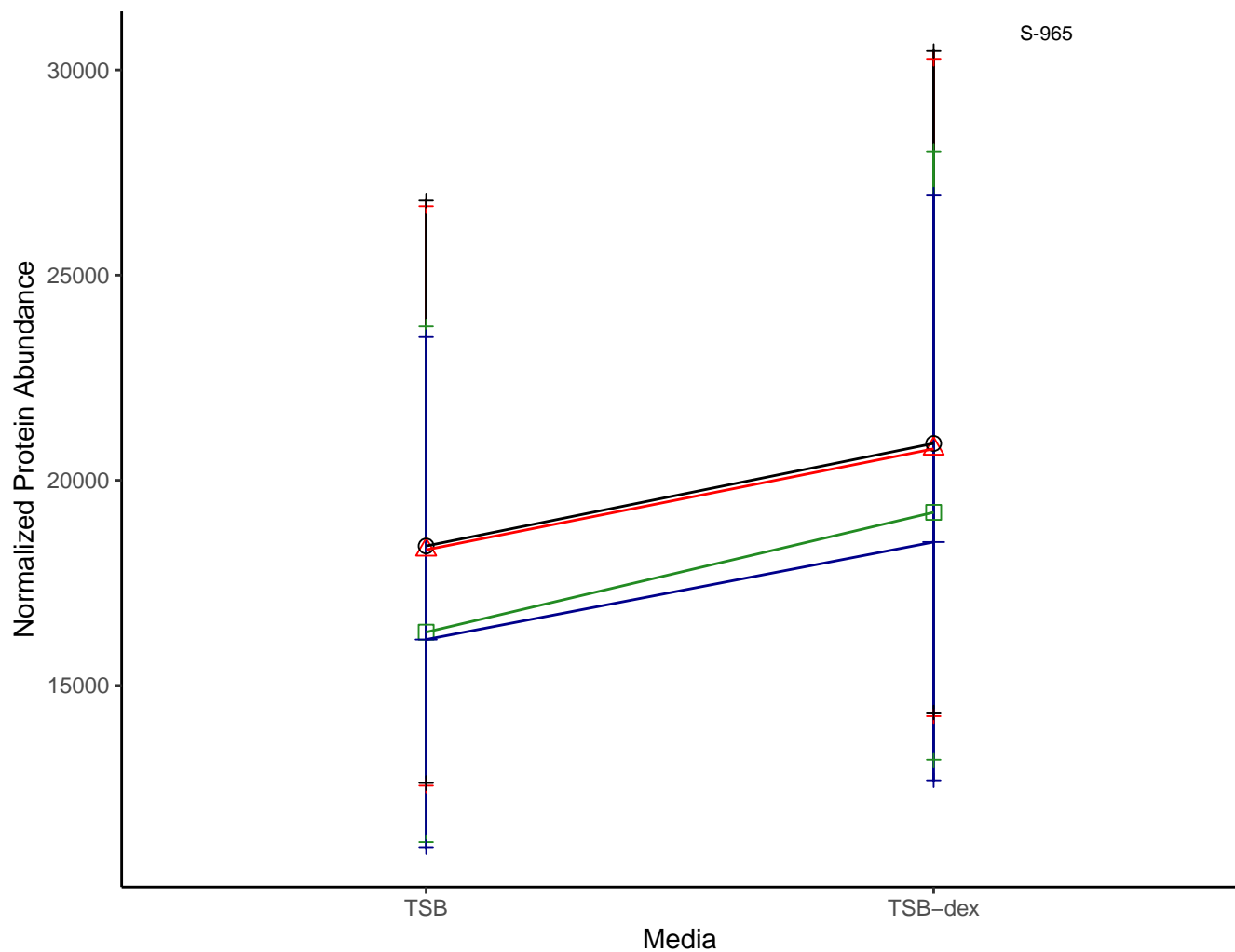
S-964



- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# Y1343\_STAAM

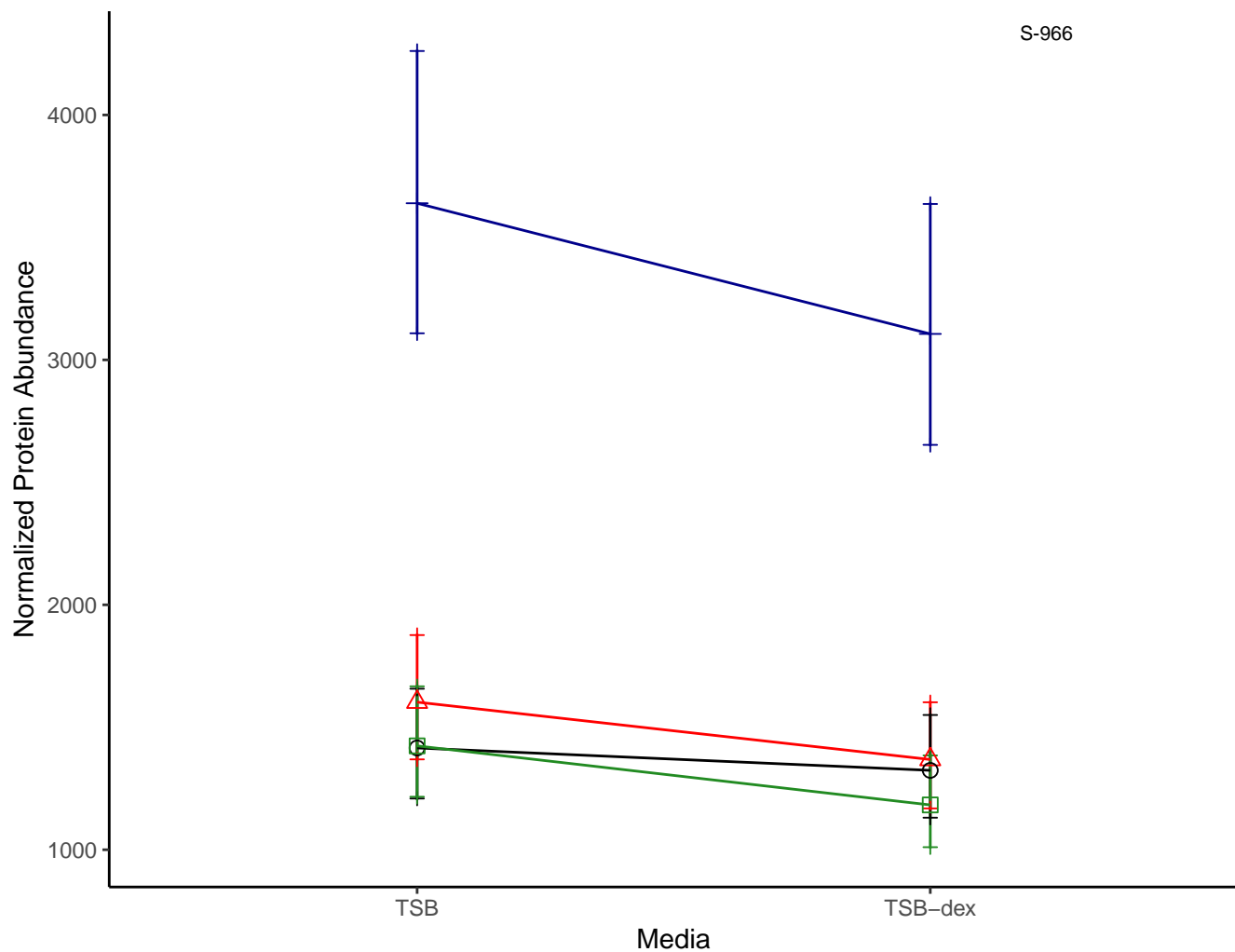
S-965



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# Y1352\_STAAM

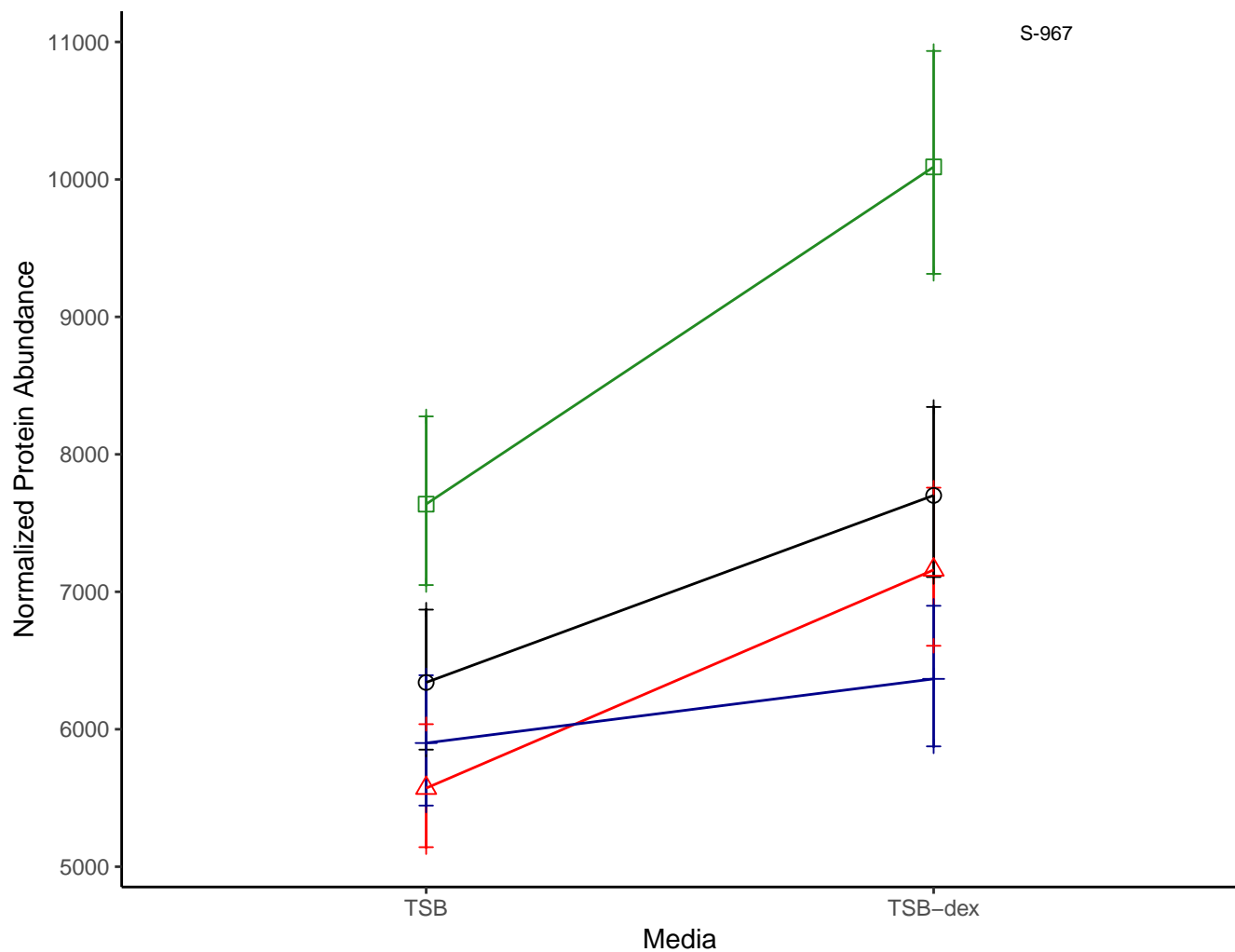
S-966



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1363\_STAAM

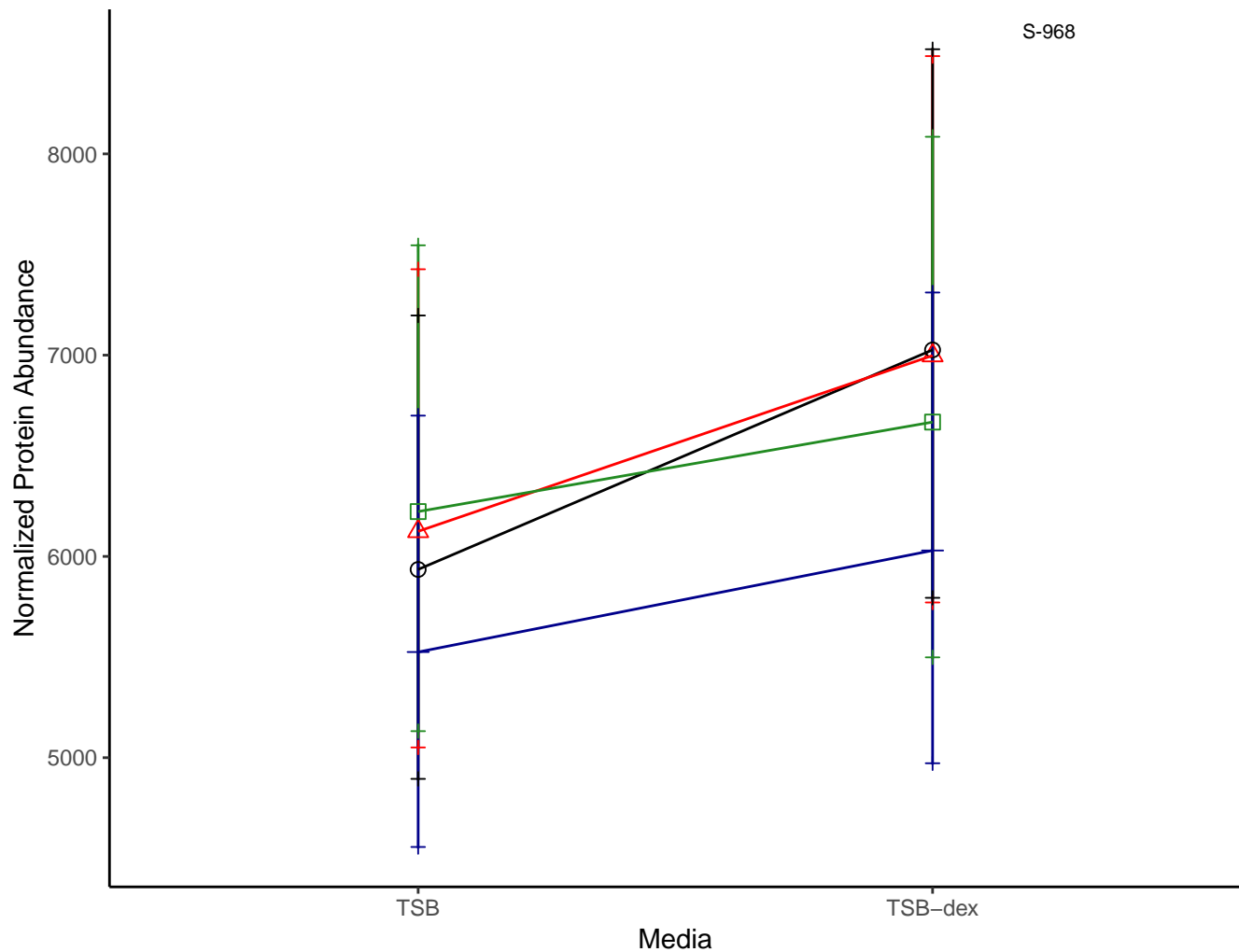
S-967



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1409\_STAAM

S-968

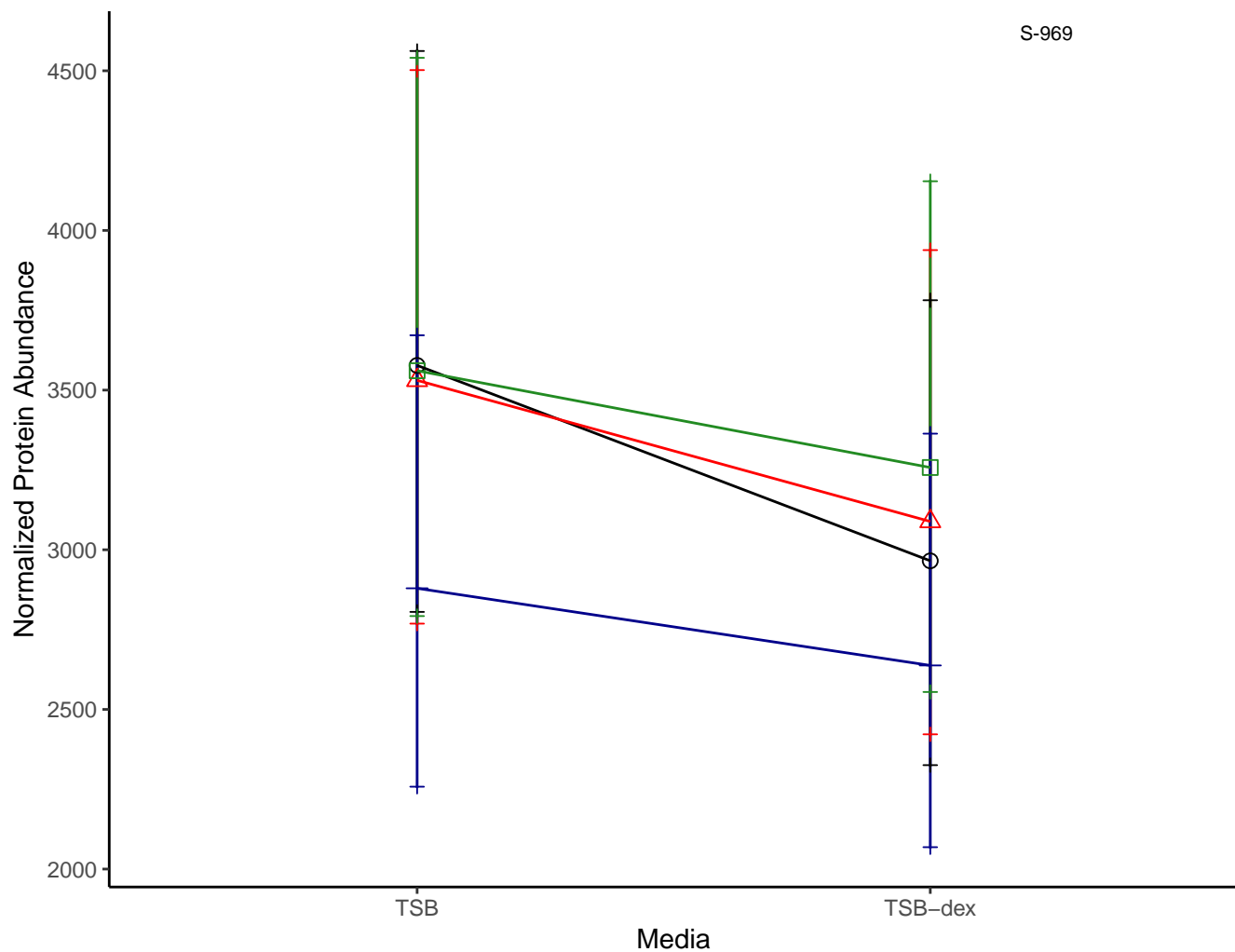


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## Y1425\_STAAM

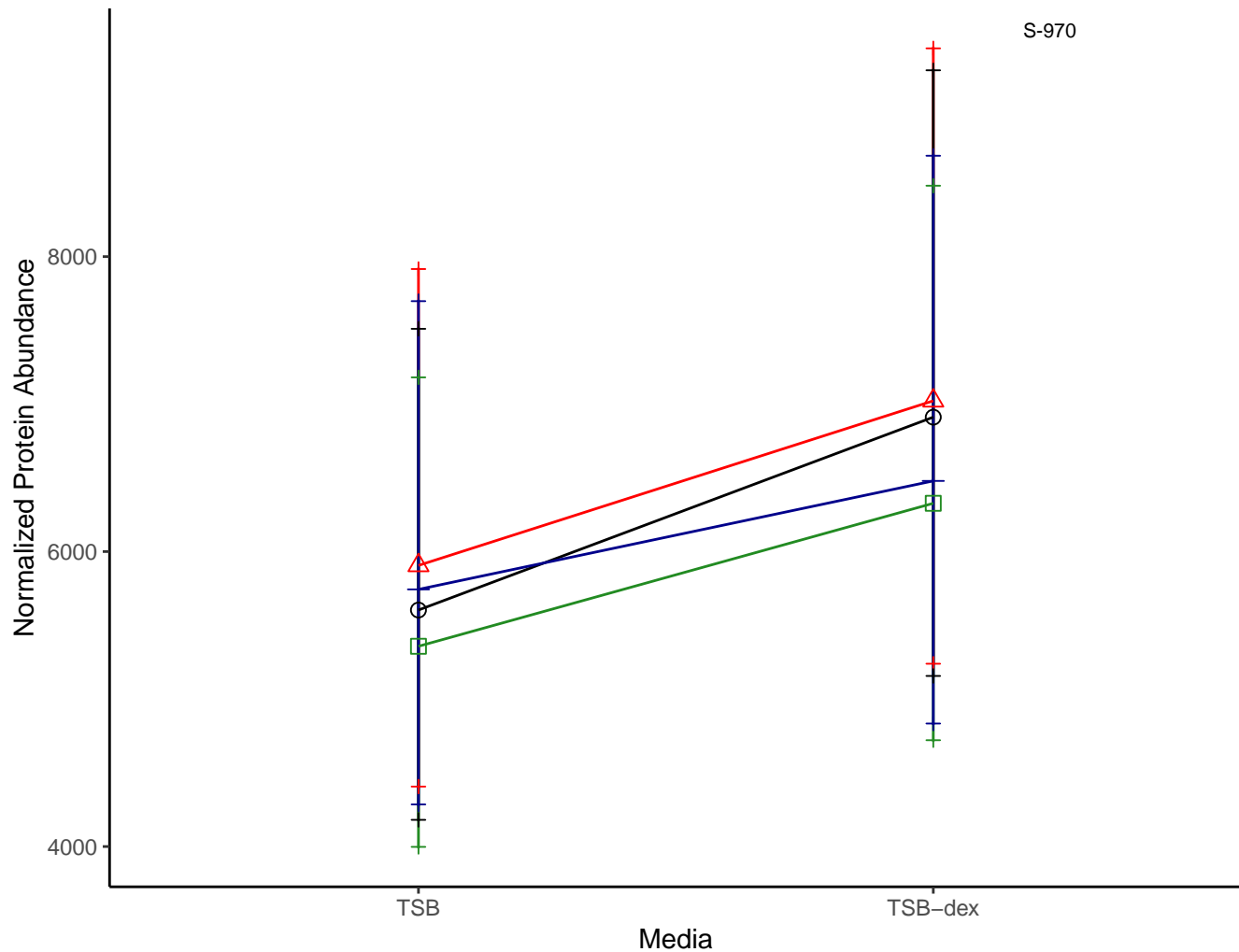
S-969



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1462\_STAAM

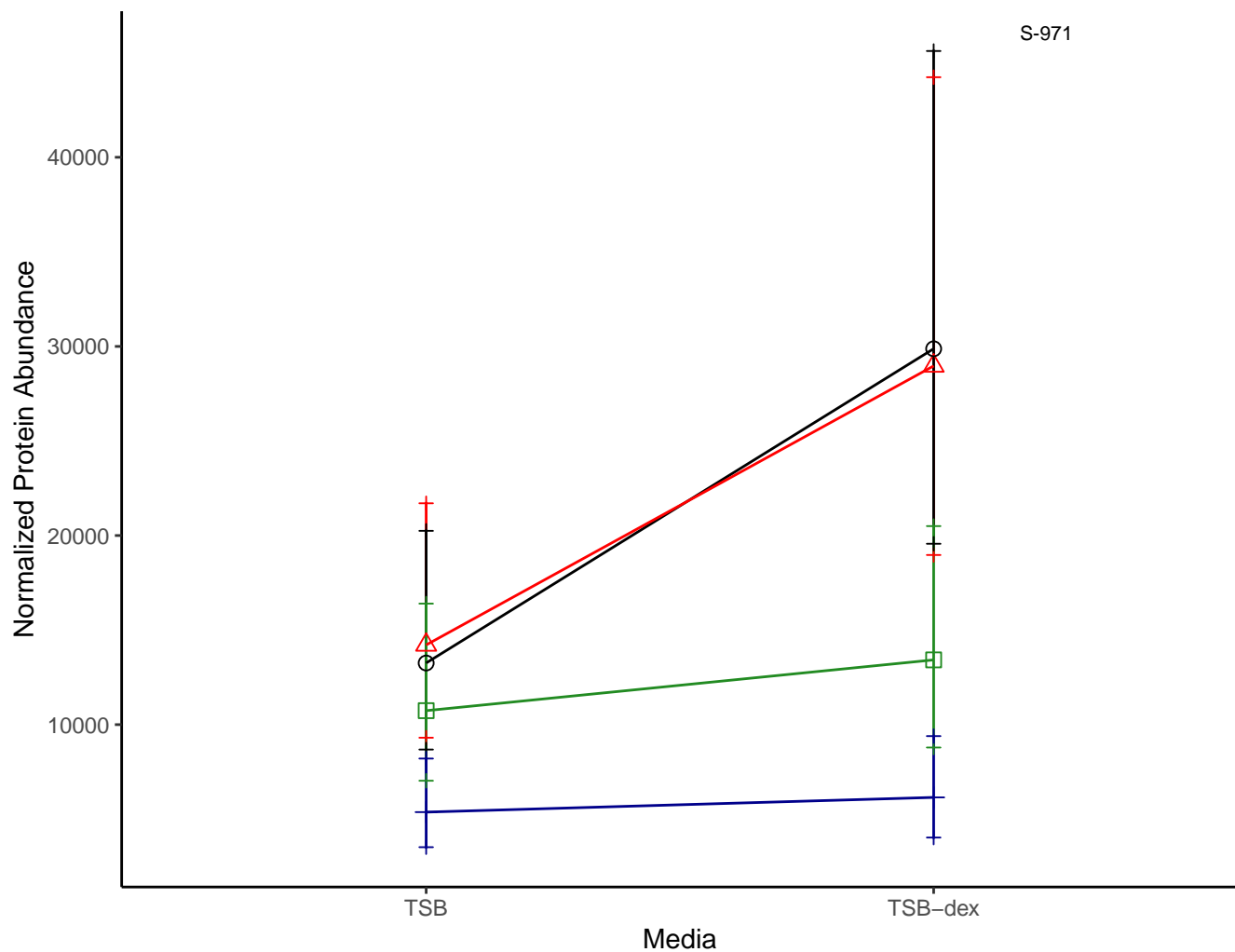
S-970



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1514\_STAAM

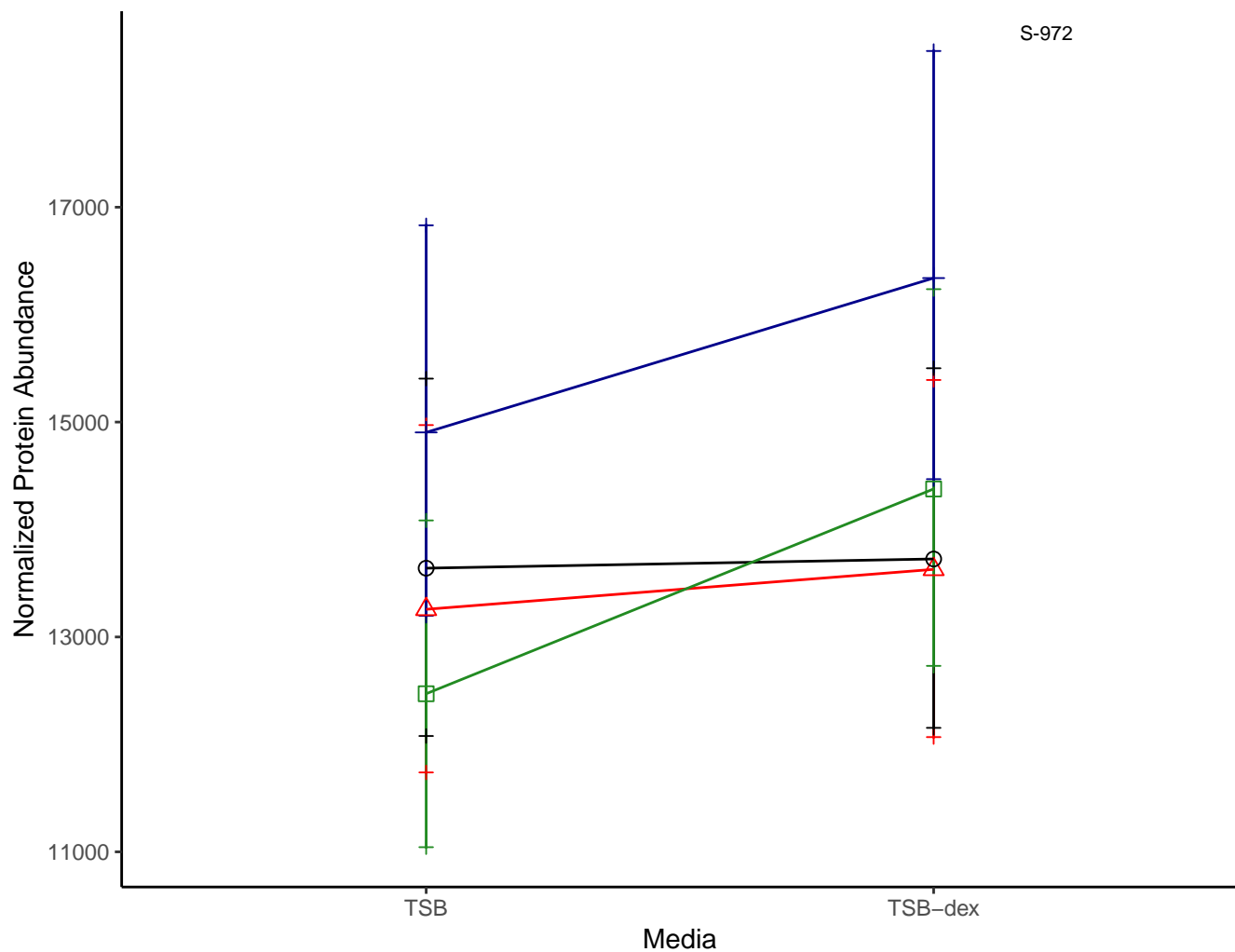
S-971



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

## Y1573\_STAAM

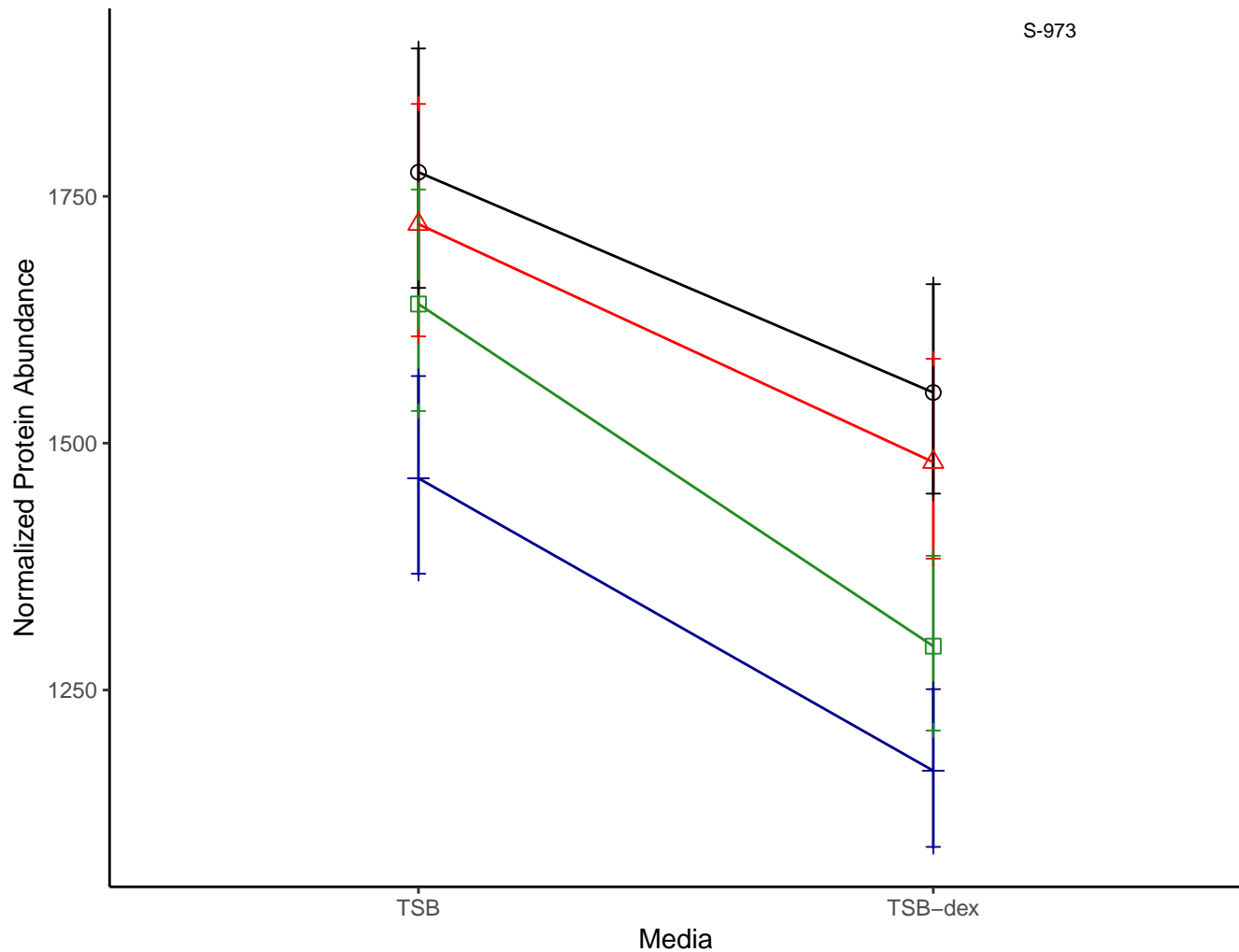
S-972



- ⊕ SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## Y1605\_STAAM

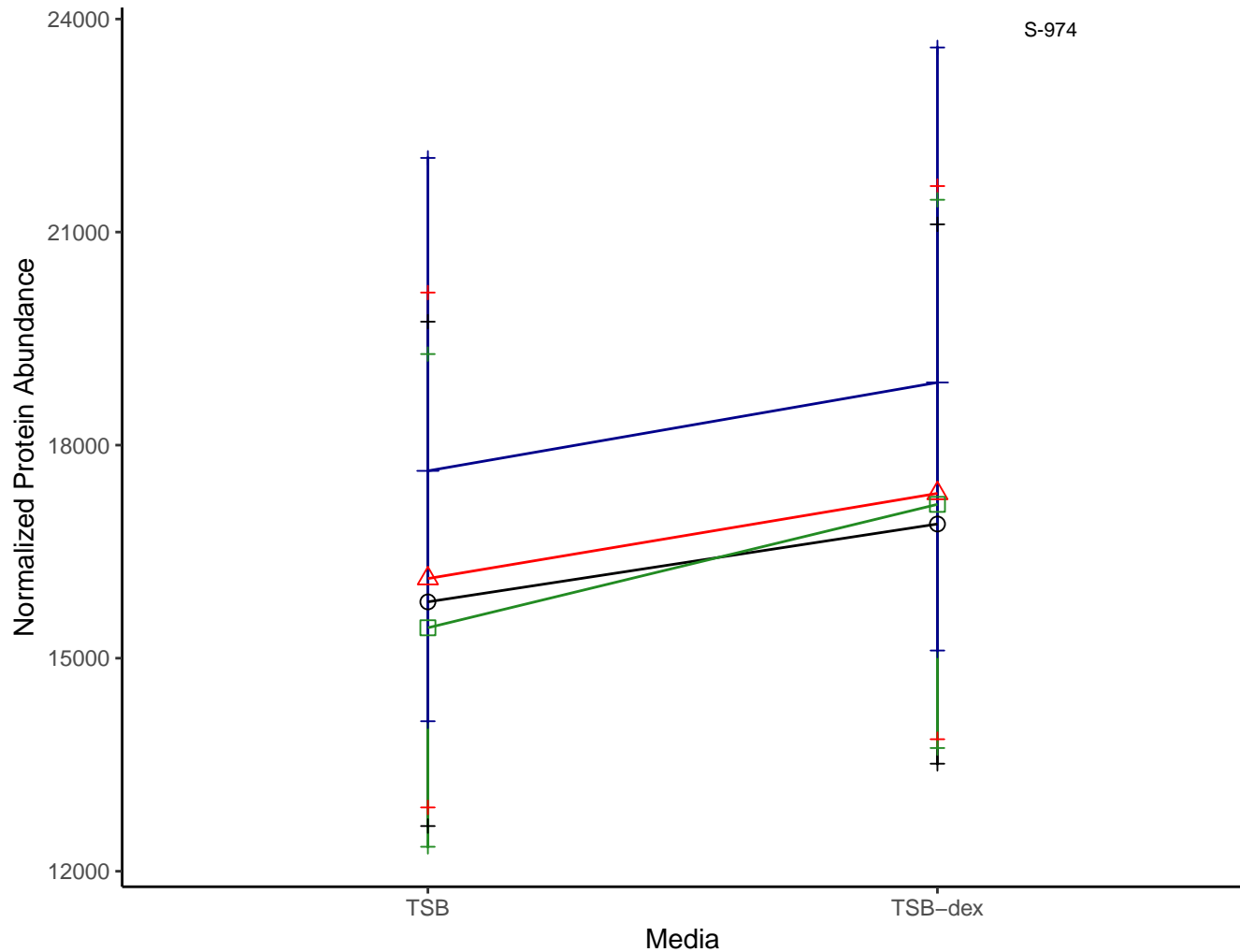
S-973



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## Y1617\_STAAM

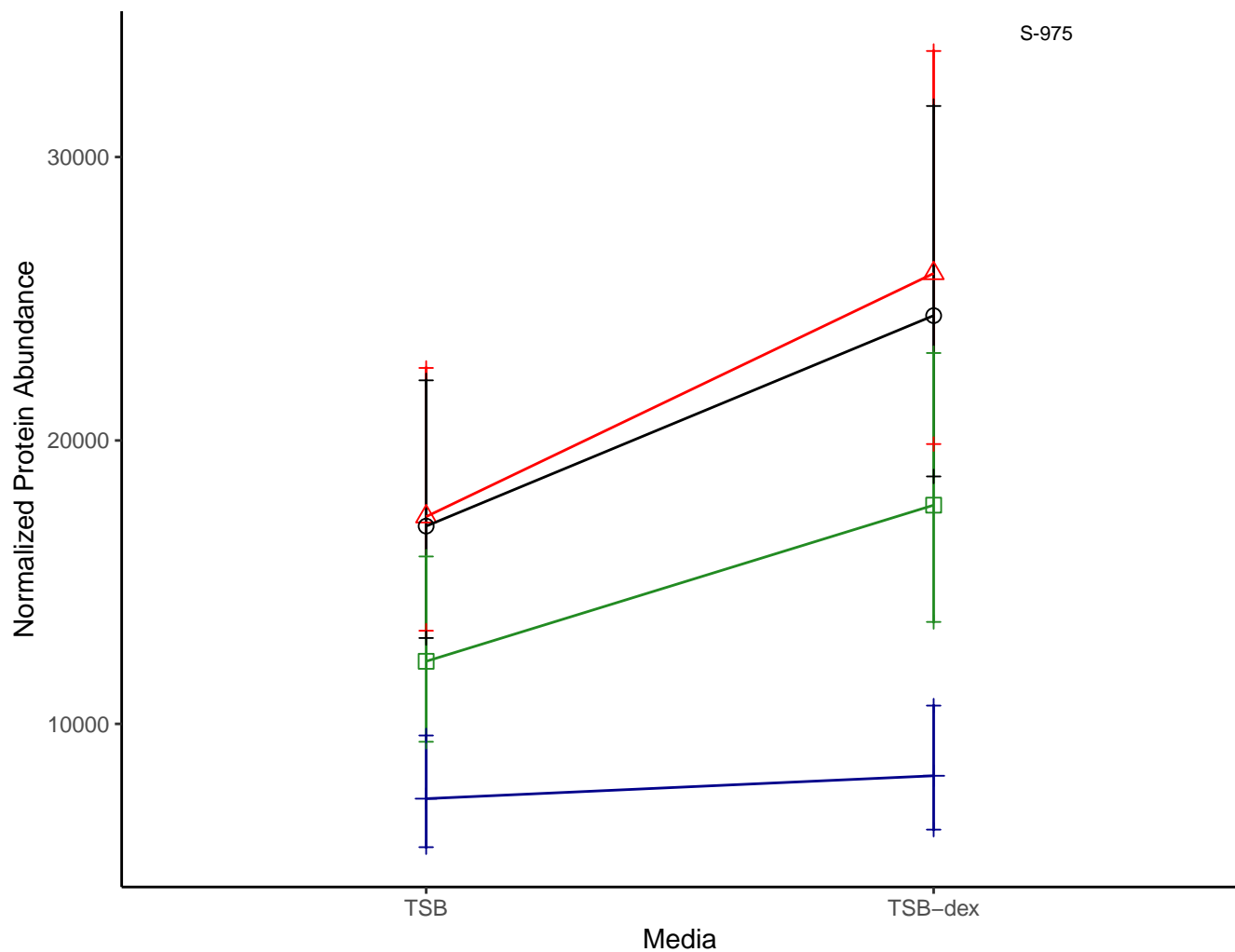
S-974



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# Y1625\_STAAM

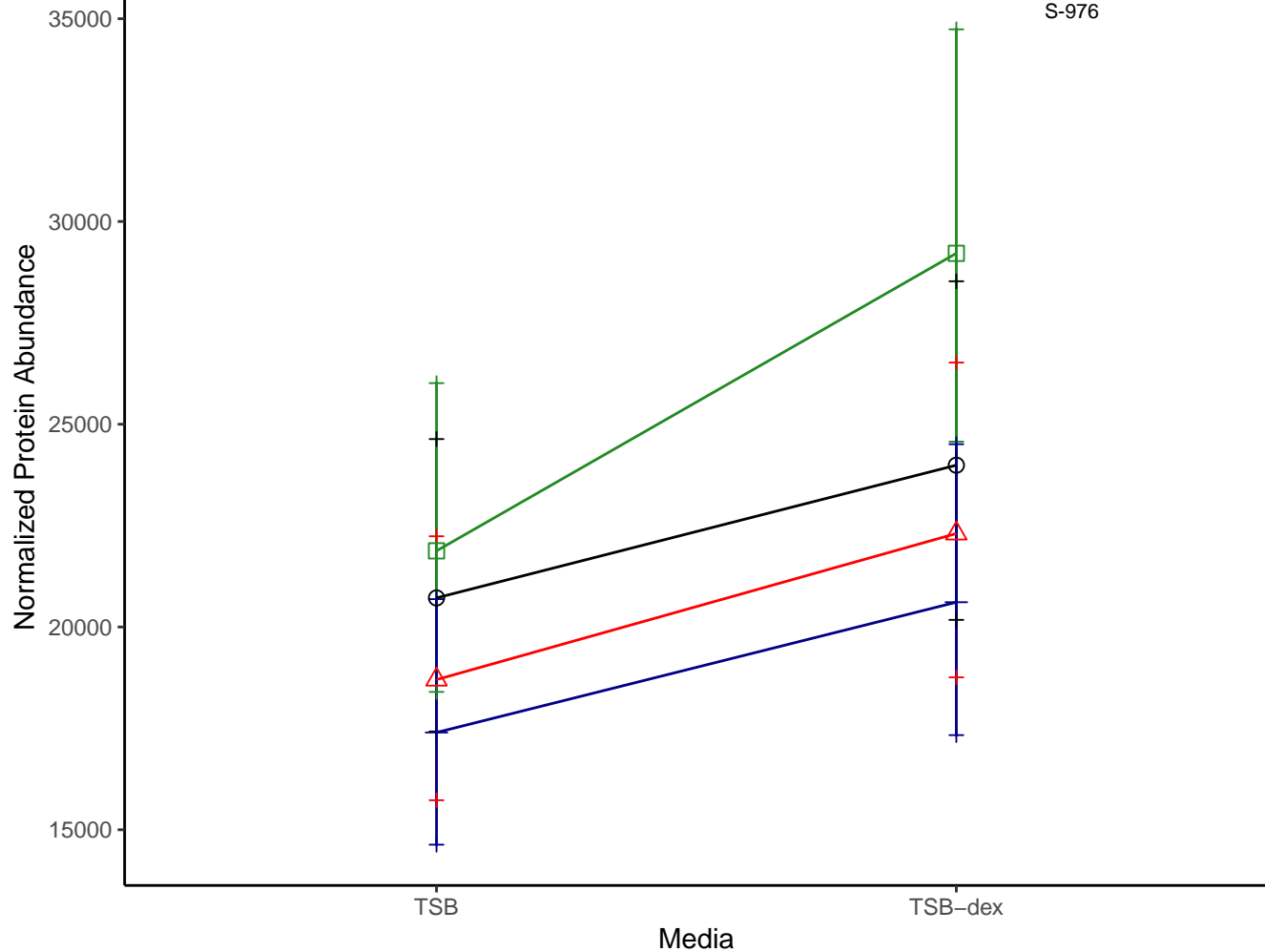
S-975



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1710\_STAAM

S-976

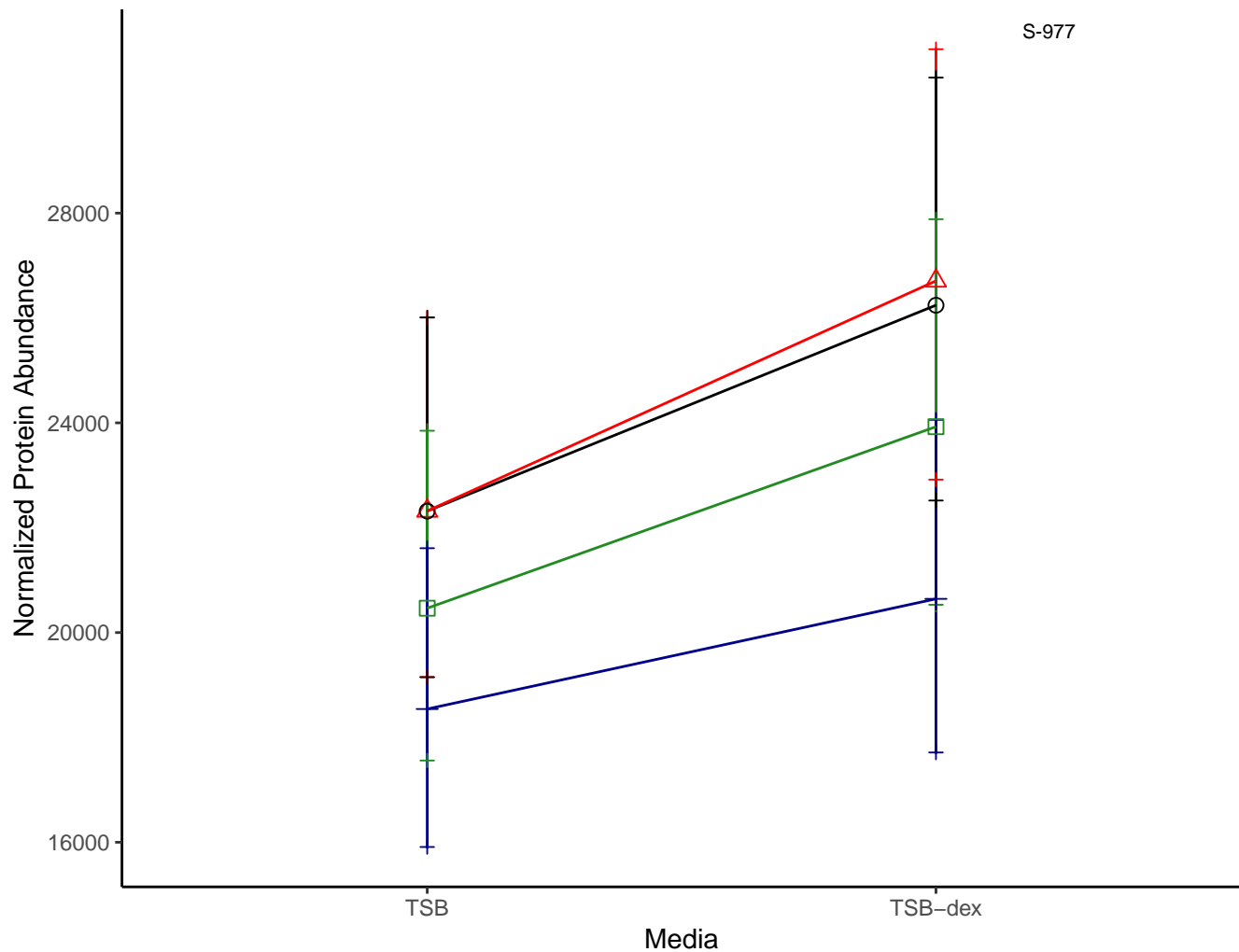


- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# Y1739\_STAAM

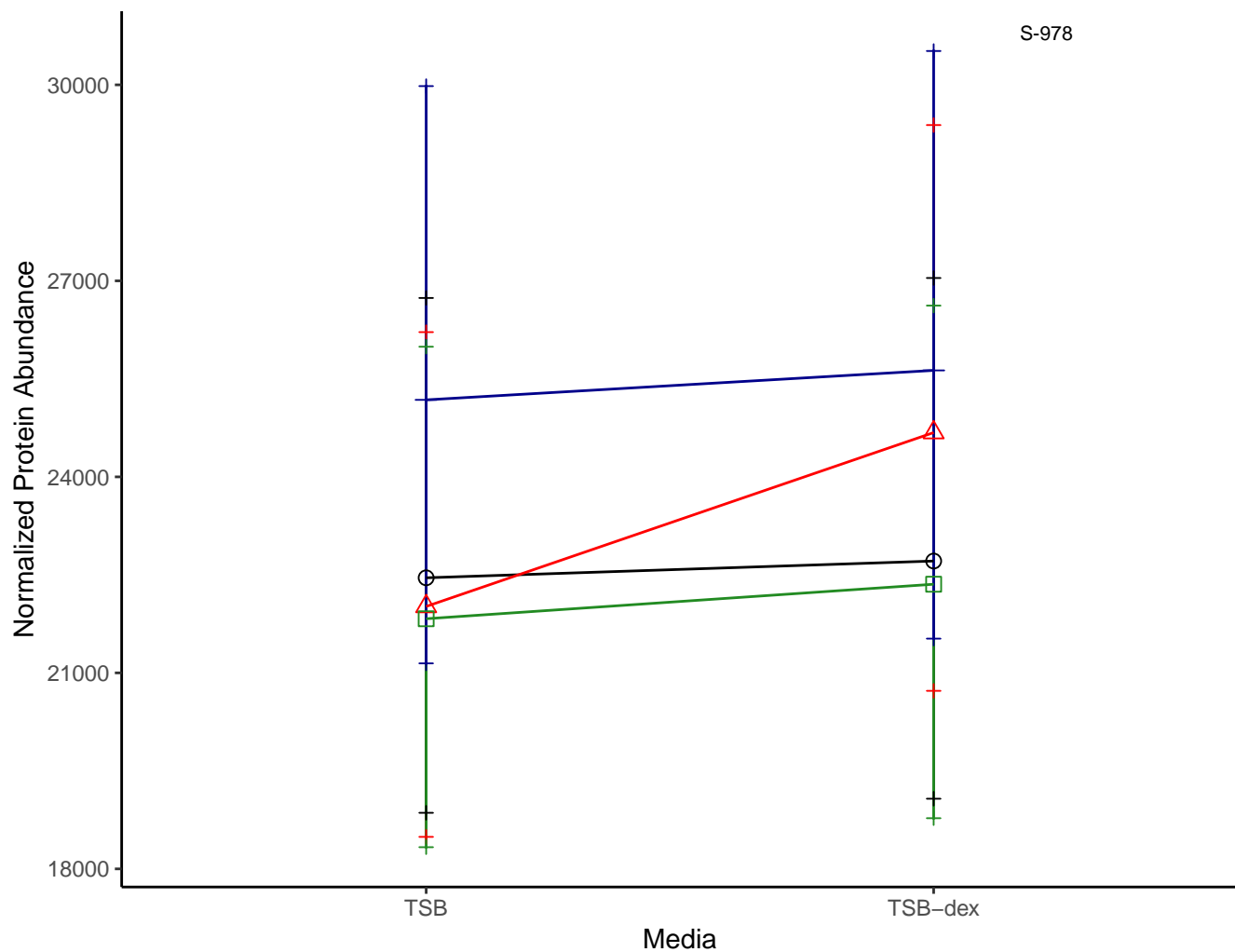
S-977



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1845\_STAAM

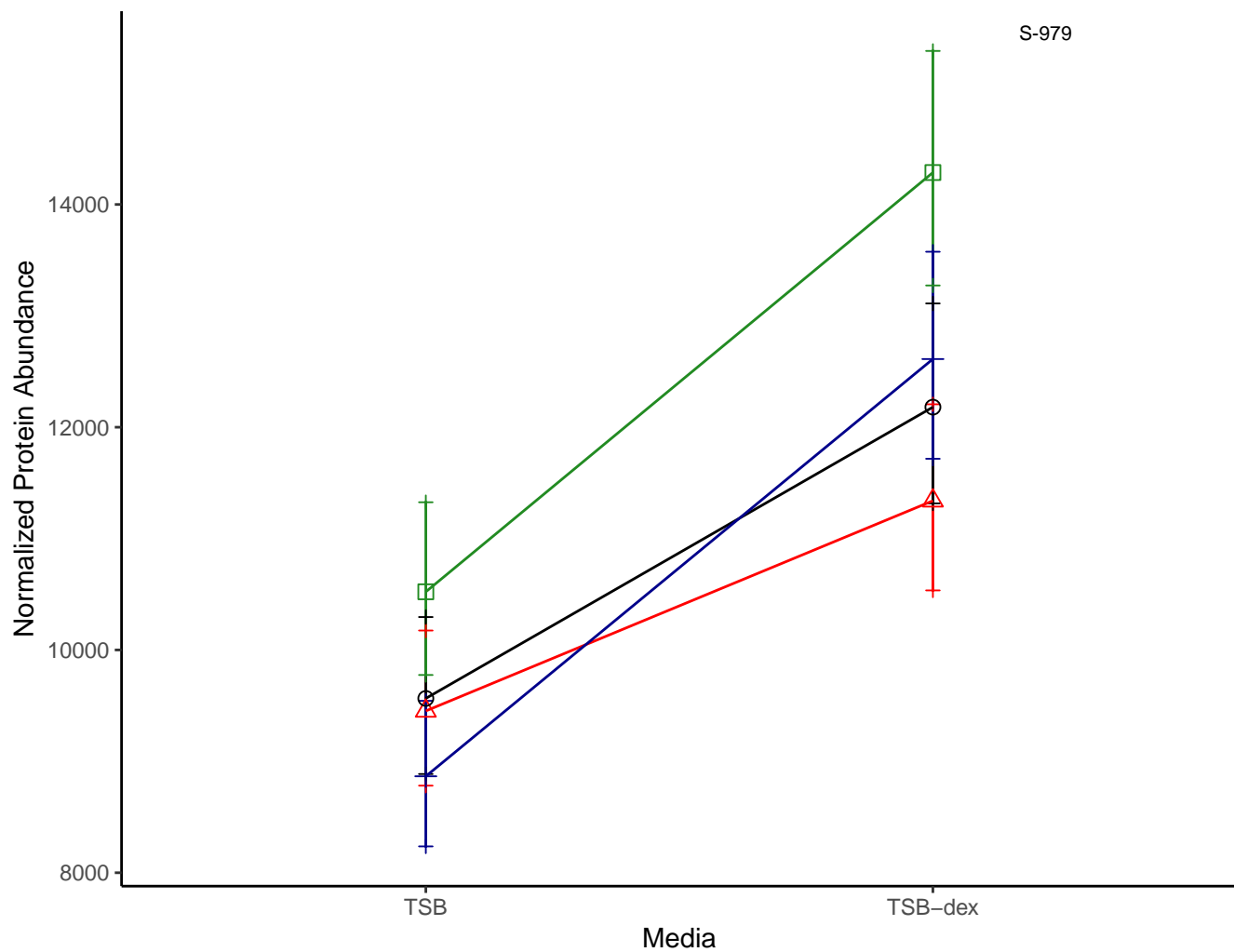
S-978



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1866\_STAAM

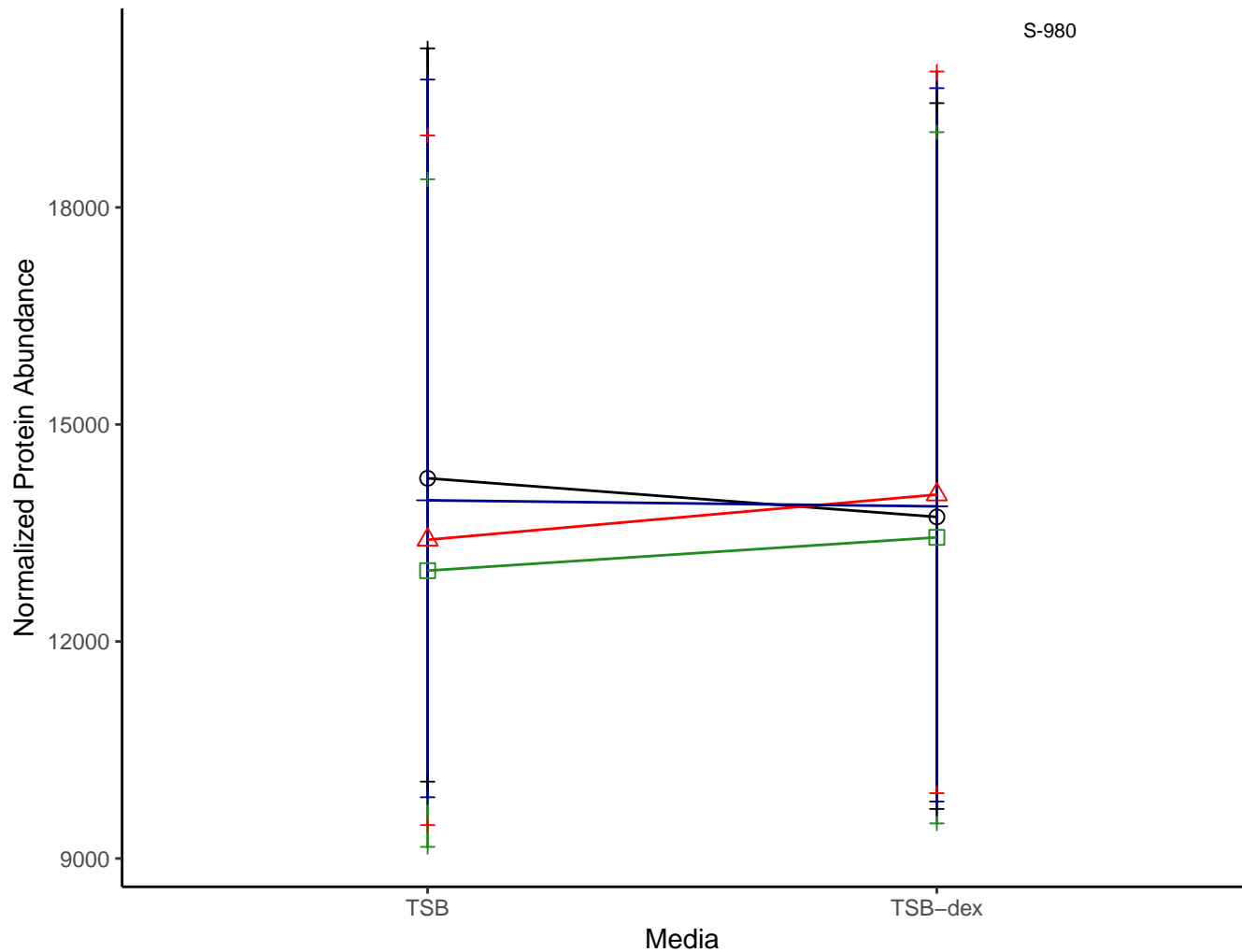
S-979



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1880\_STAAM

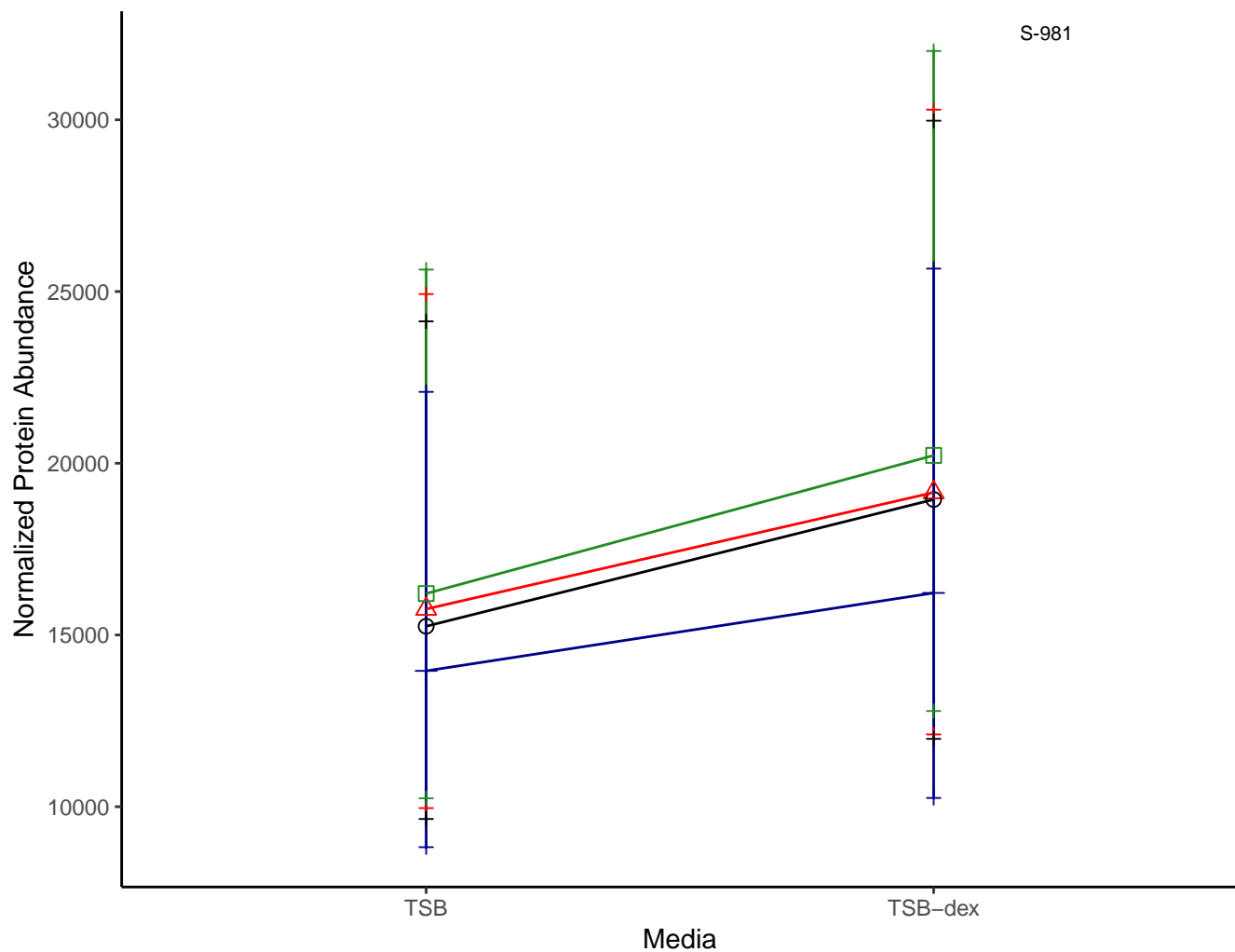
S-980



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# Y1921\_STAAM

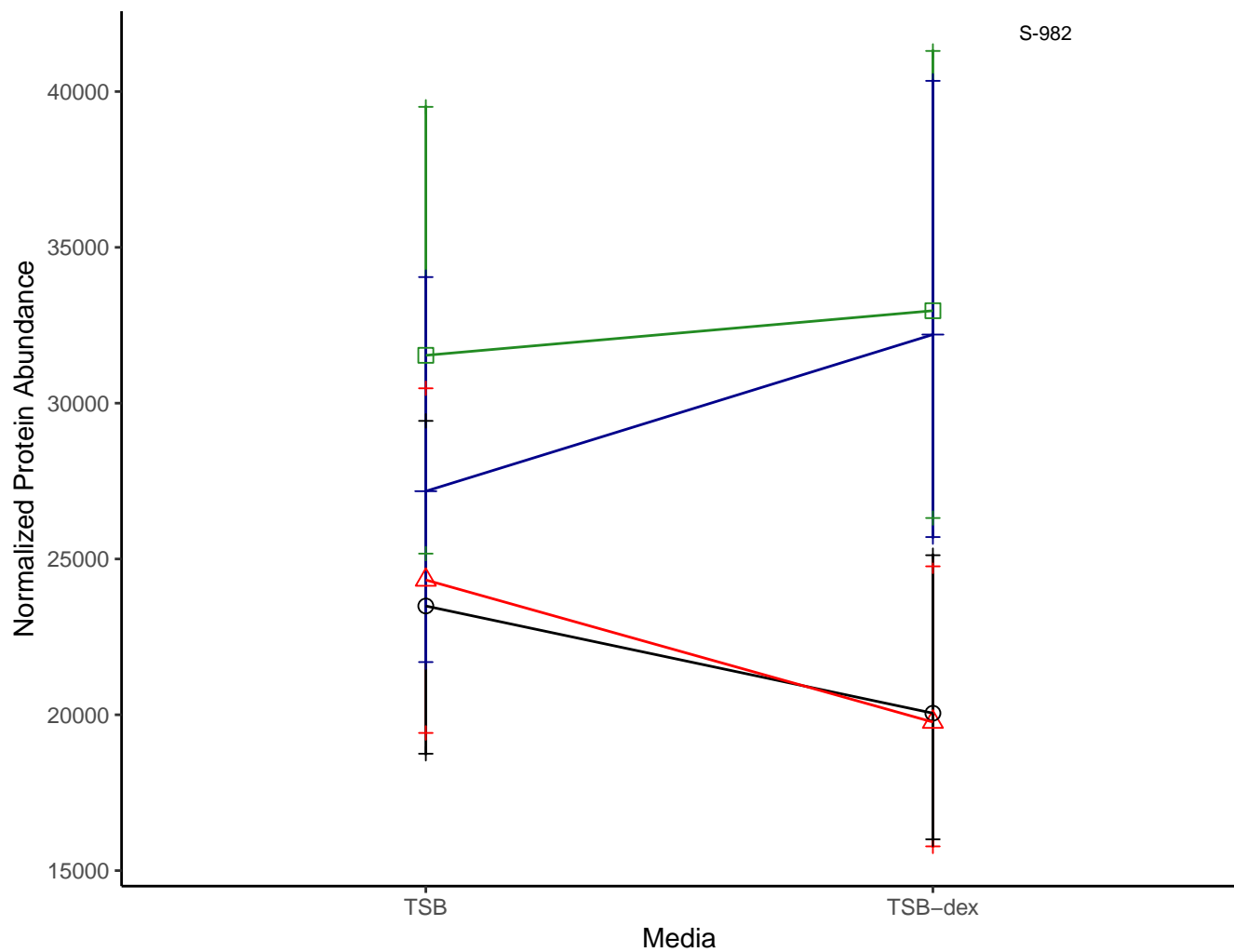
S-981



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2173\_STAAM

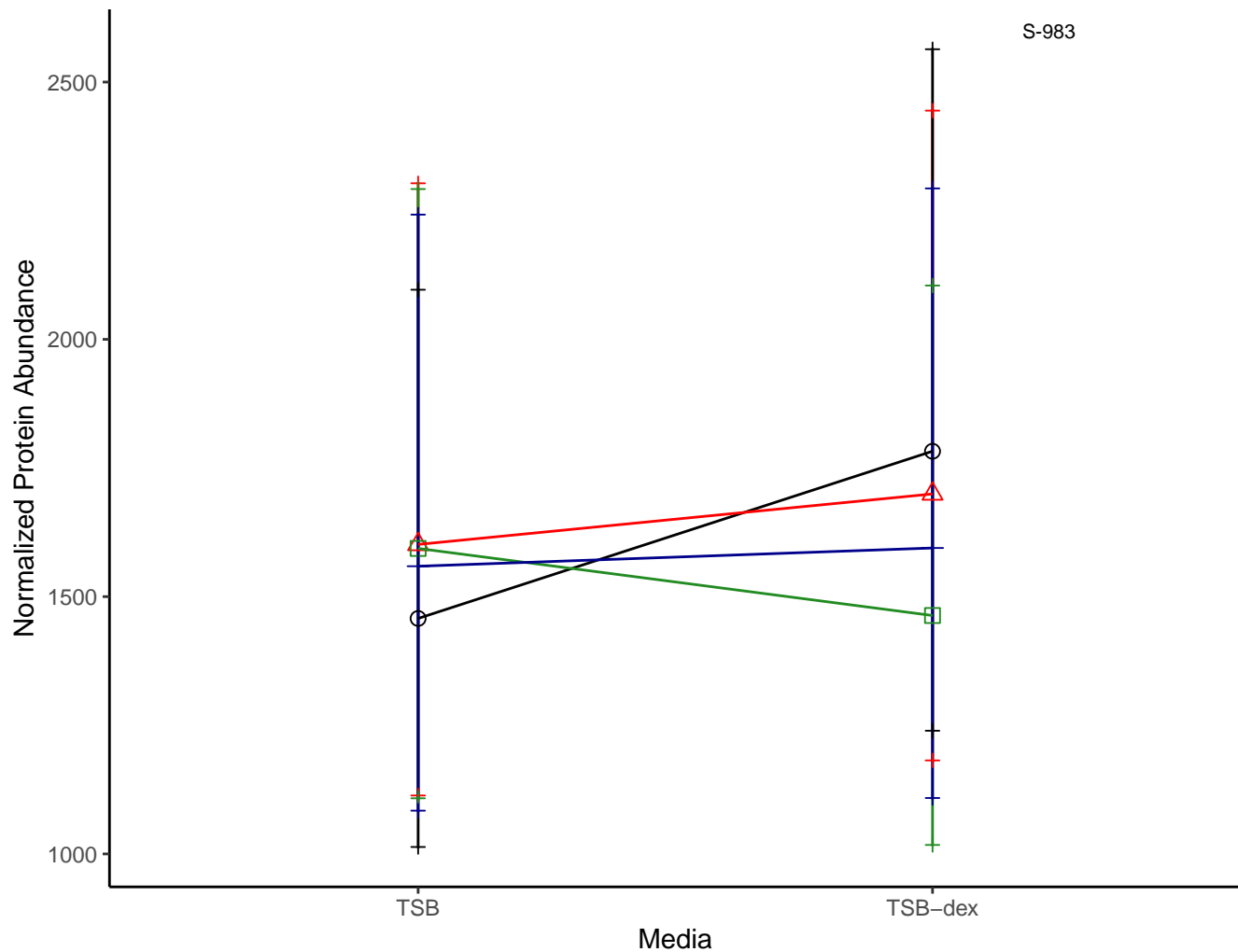
S-982



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y2204\_STAAM

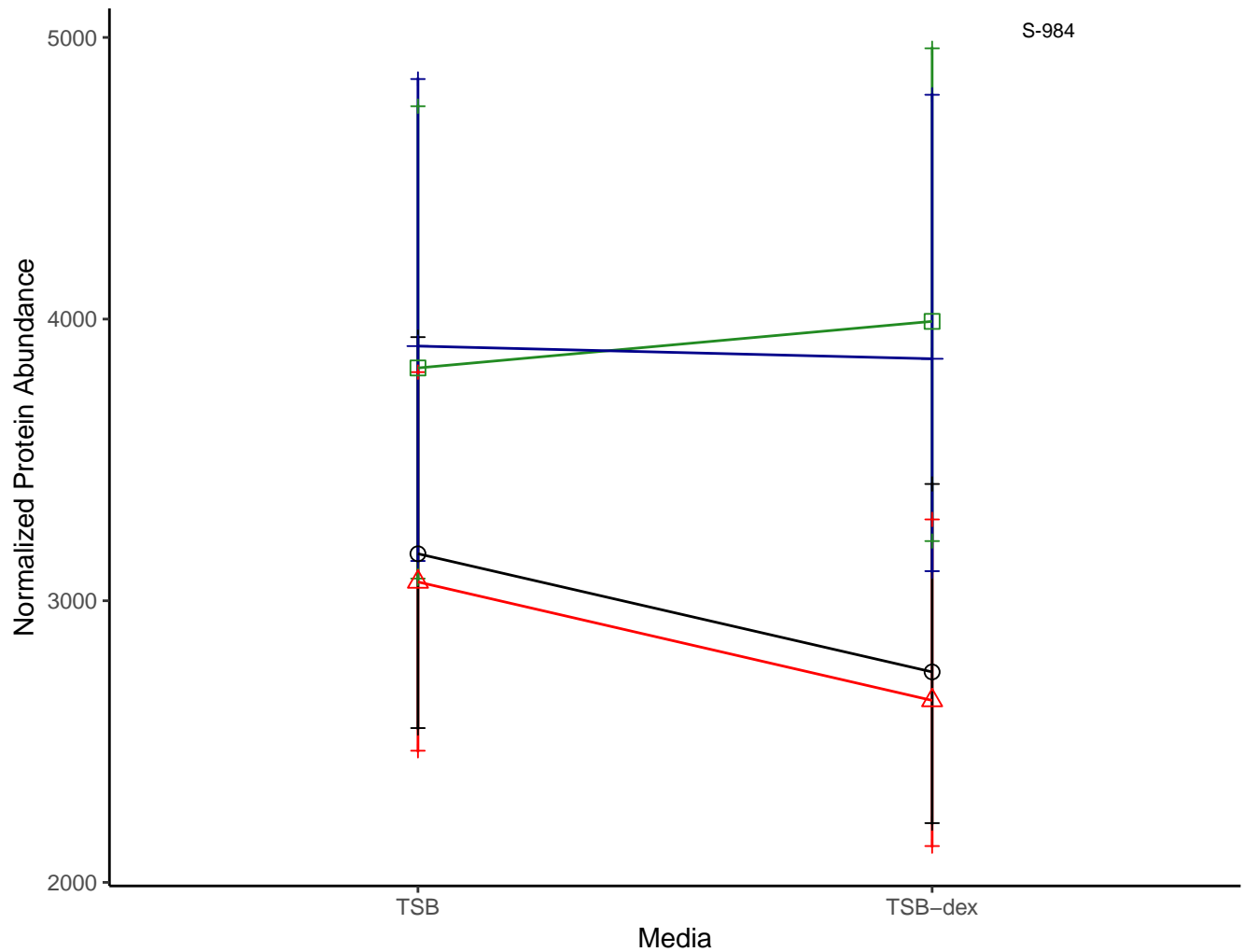
S-983



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2265\_STAAM

S-984

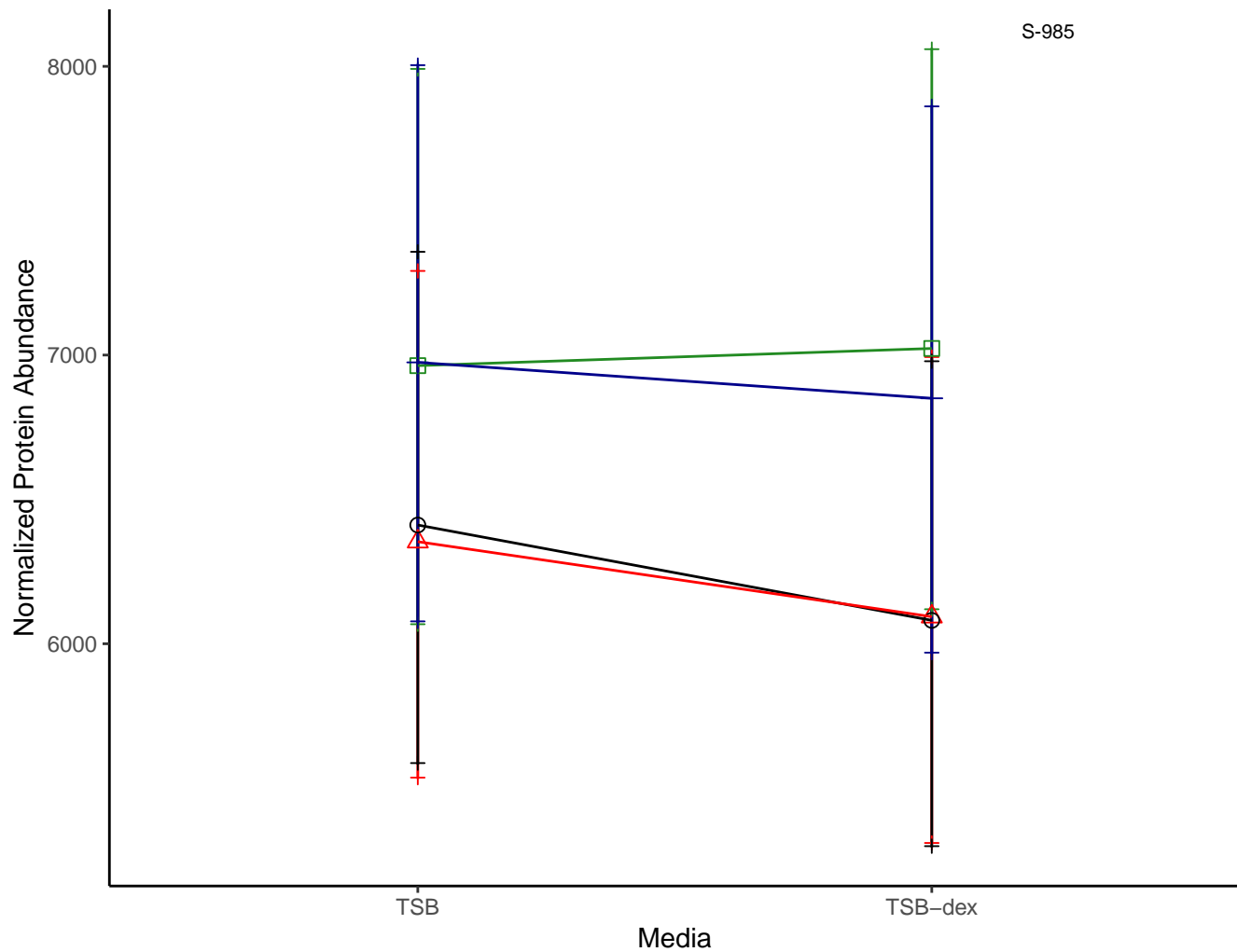


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y2305\_STAAM

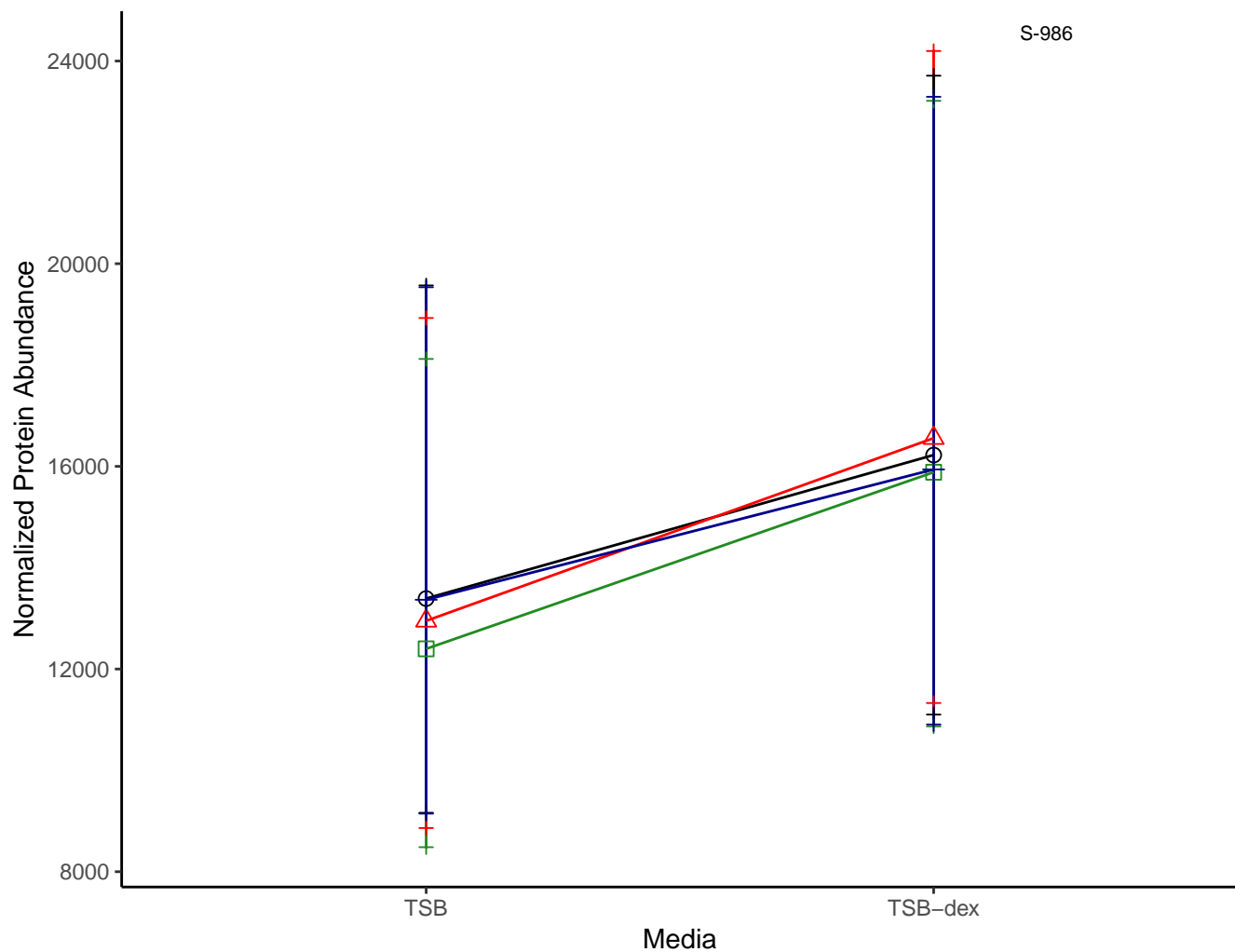
S-985



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- ⊕ SA564- $\Delta hptRS/ccpA$

# Y2363\_STAAM

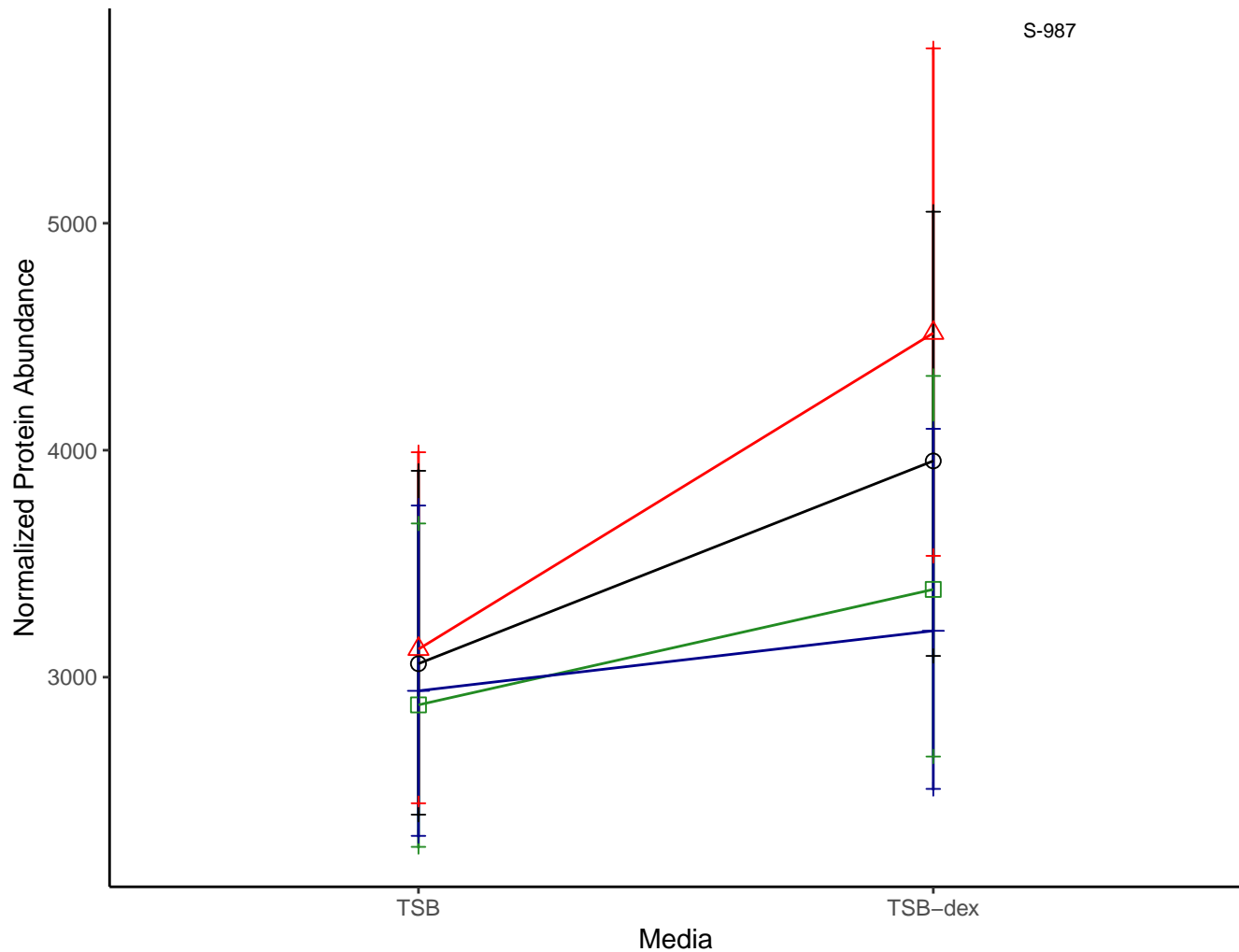
S-986



- SA564
- SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- SA564- $\Delta$ *hptRS/ccpA*

# Y2368\_STAAM

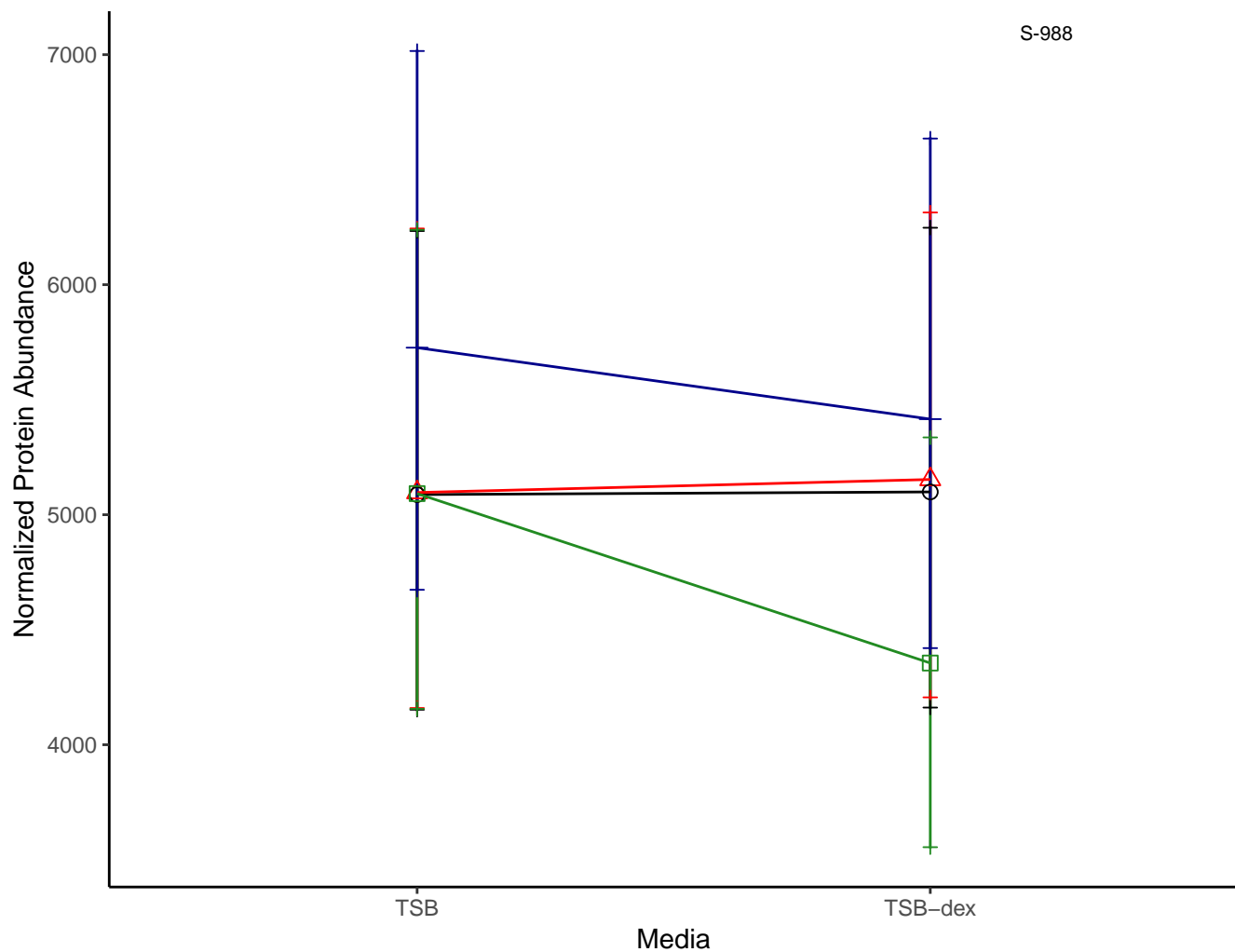
S-987



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2478\_STAAM

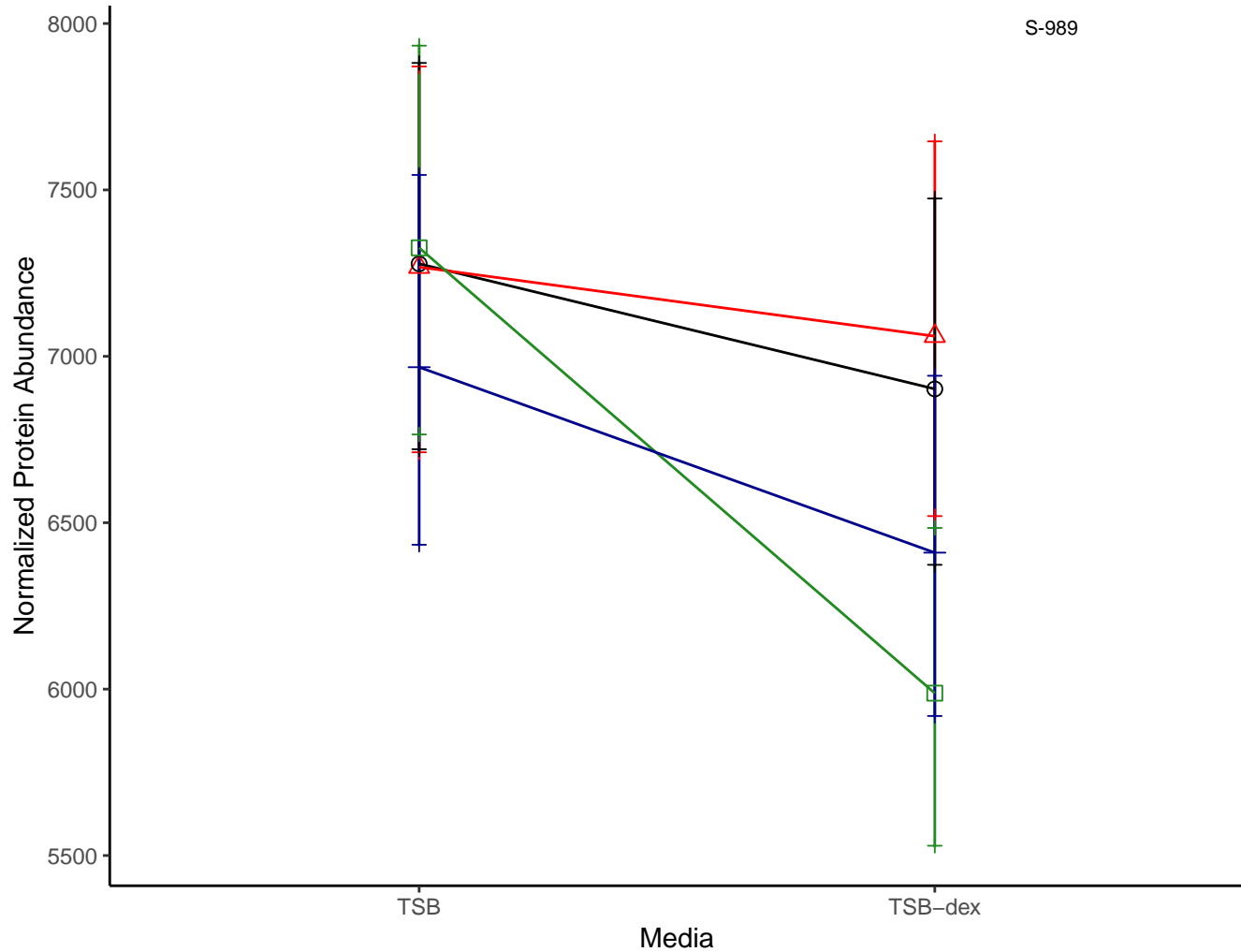
S-988



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y2523\_STAAM

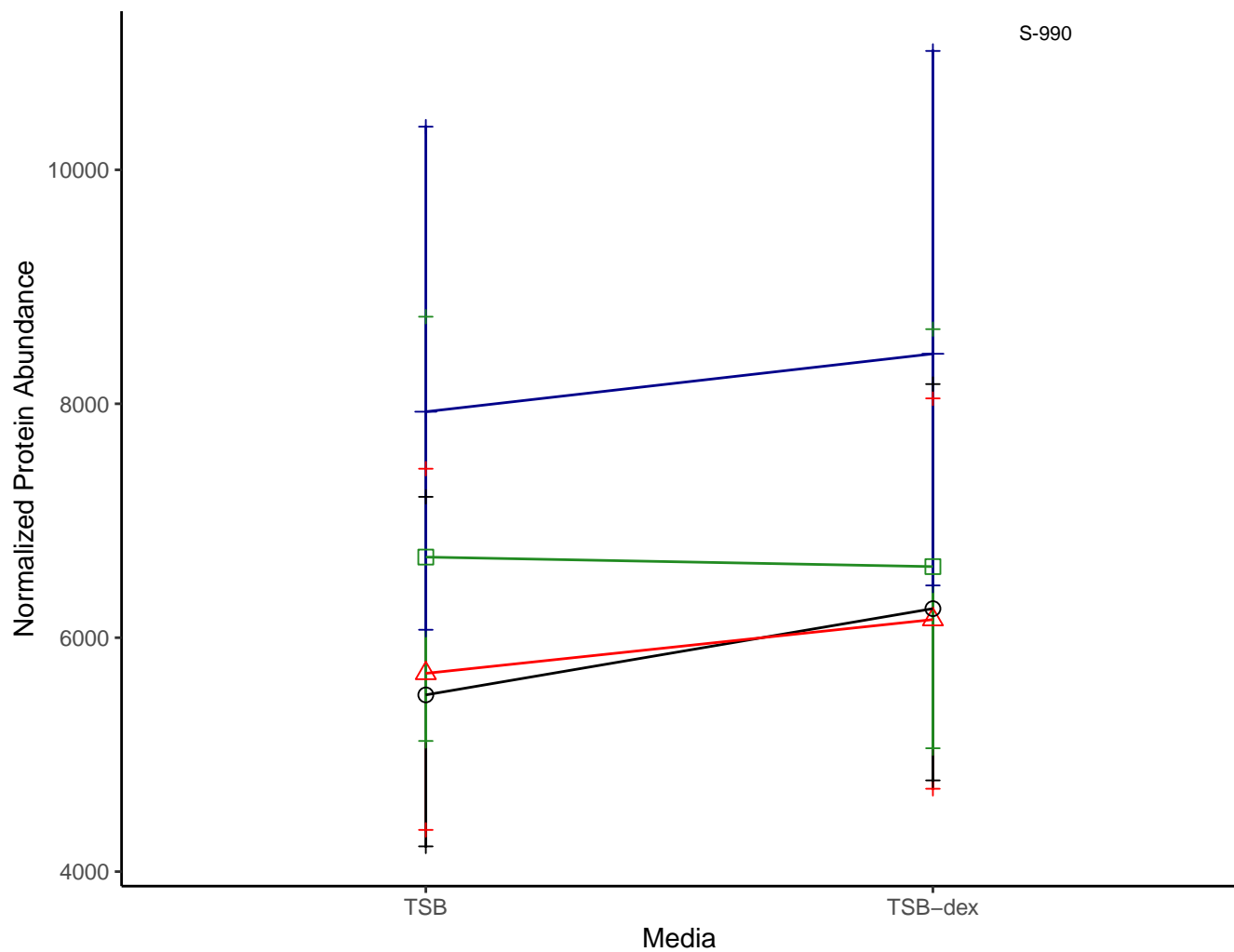
S-989



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2573\_STAAM

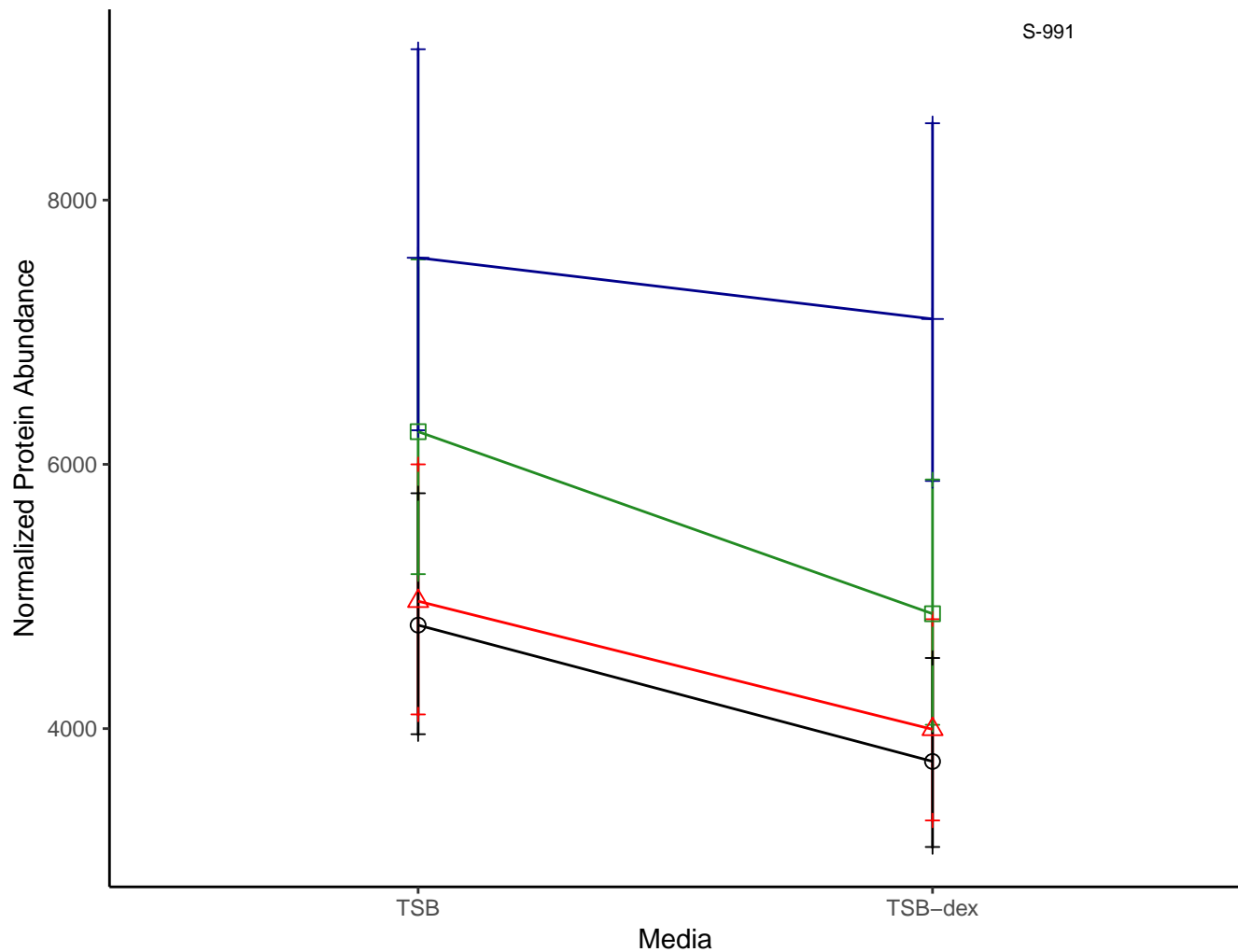
S-990



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## Y2578\_STAAM

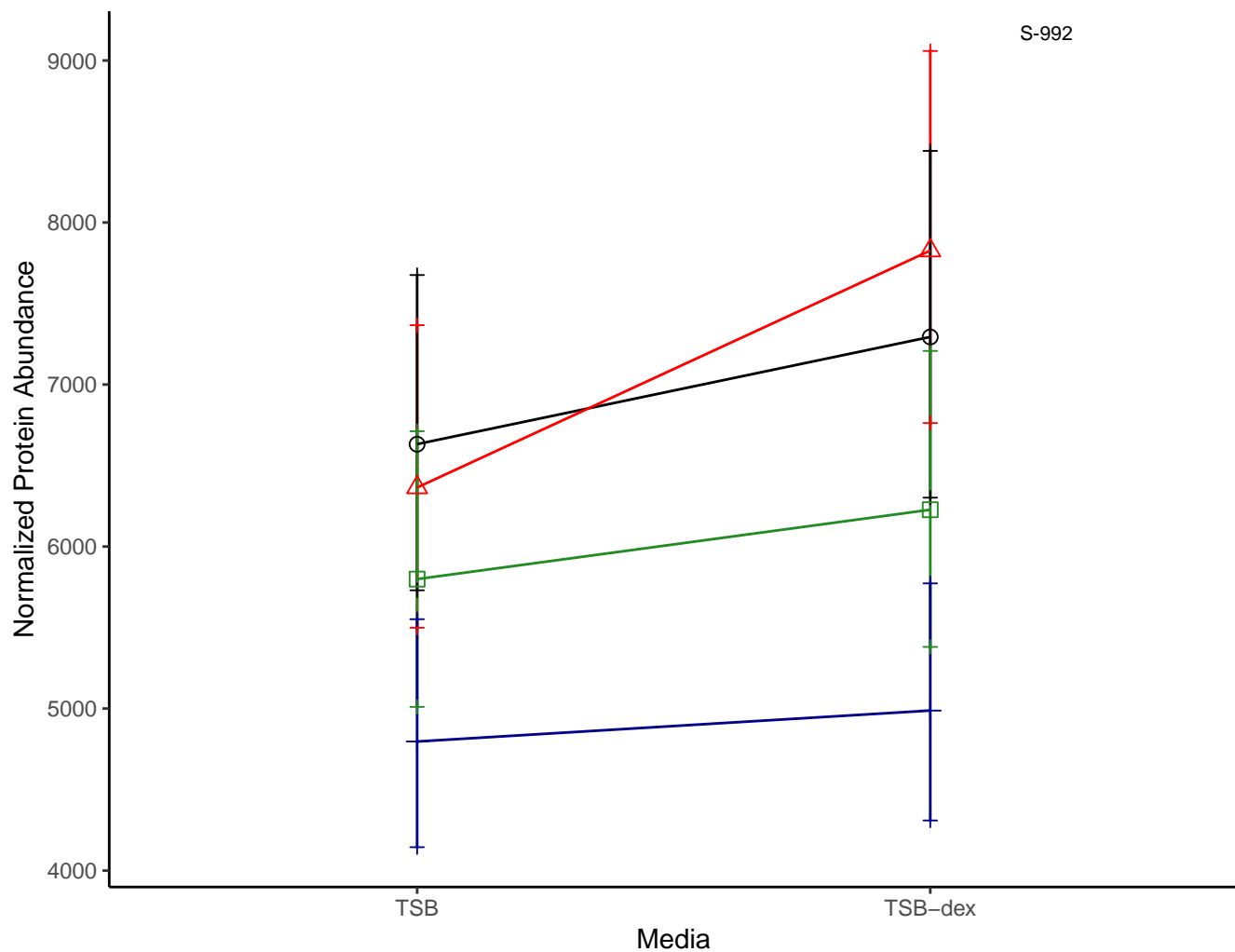
S-991



- ⊕ SA564
- △ SA564-Δ*hptRS*
- ⊞ SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# Y2581\_STAAM

S-992

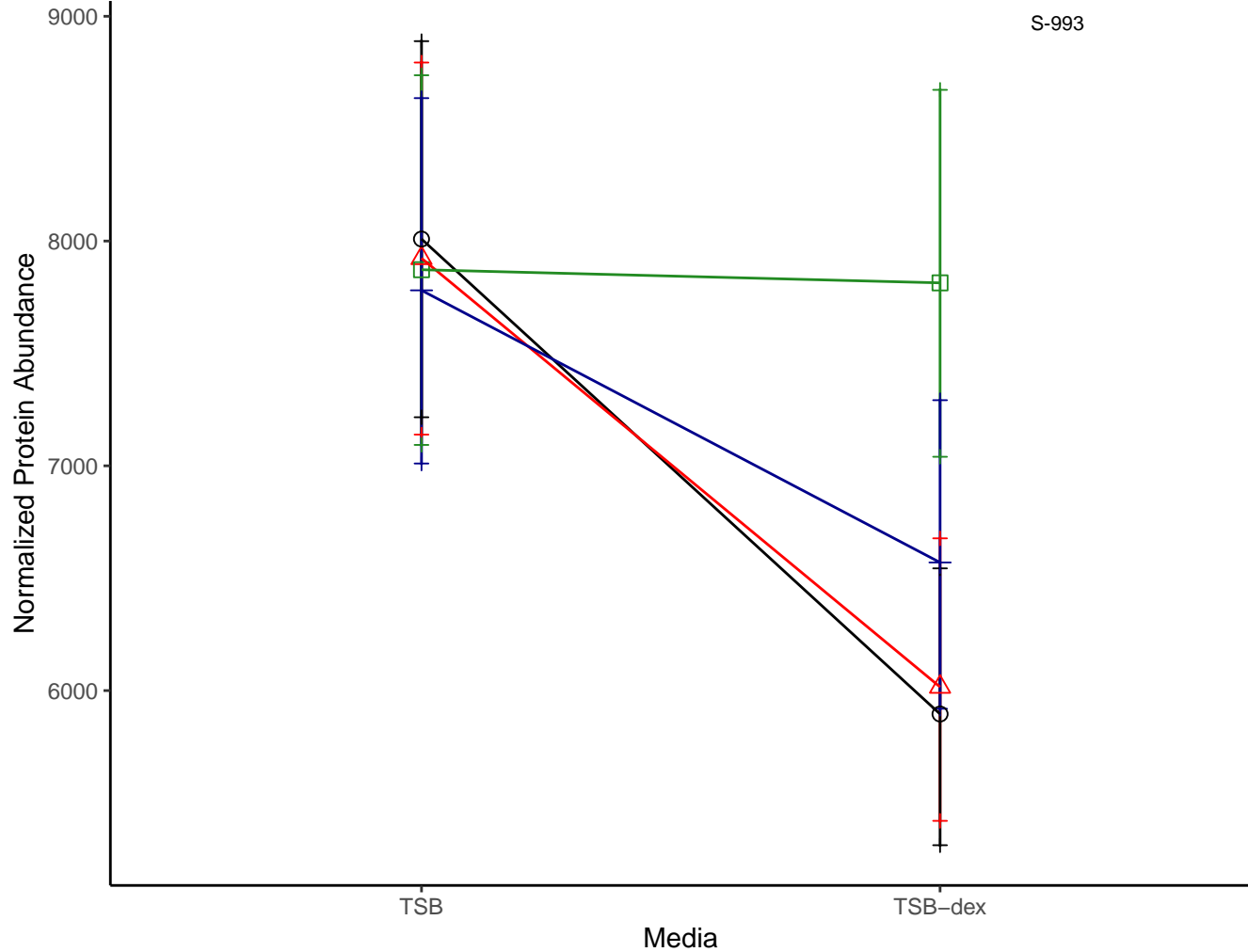


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## Y2627\_STAAM

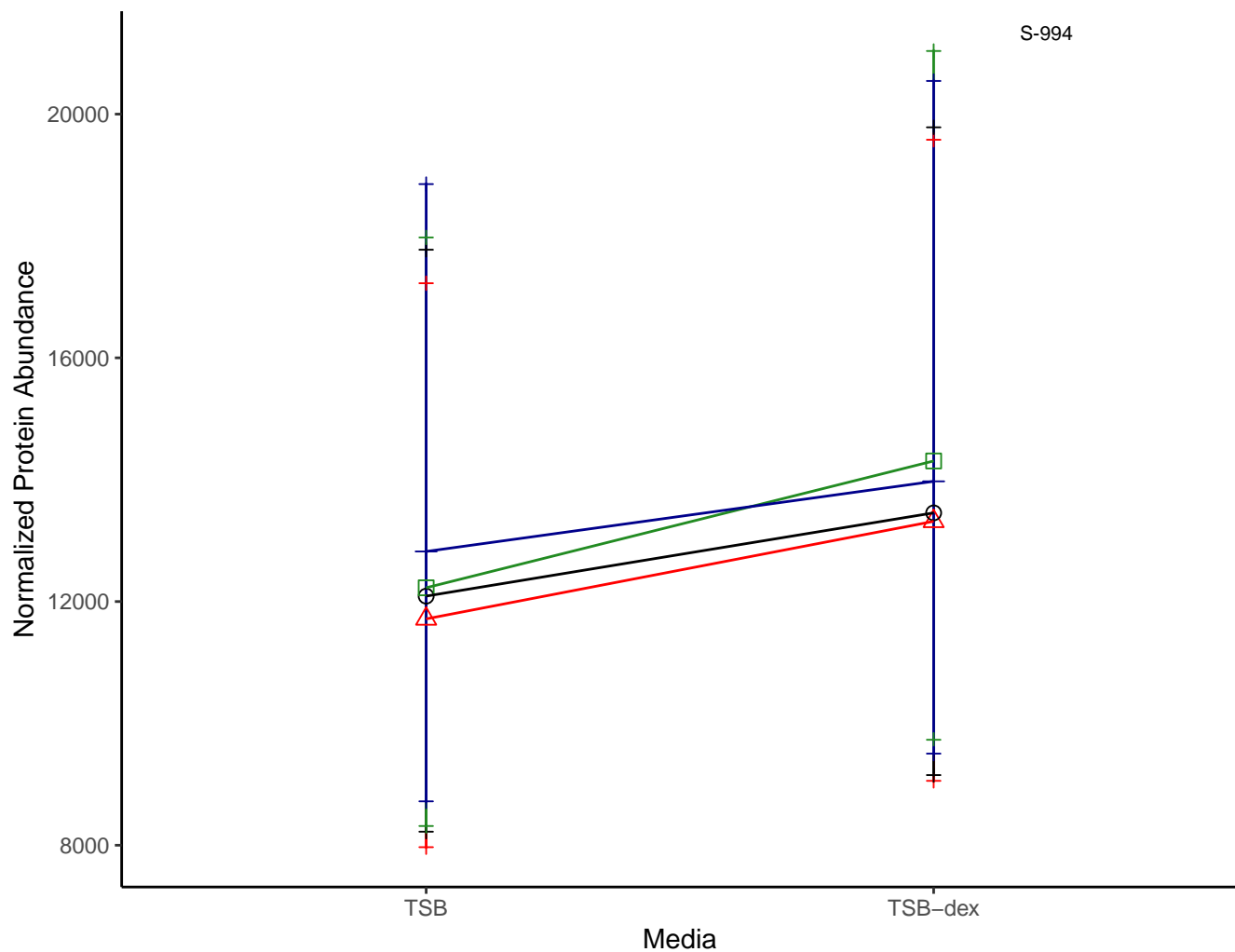
S-993



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# Y2687\_STAAM

S-994



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2689\_STAAM

S-995

Normalized Protein Abundance

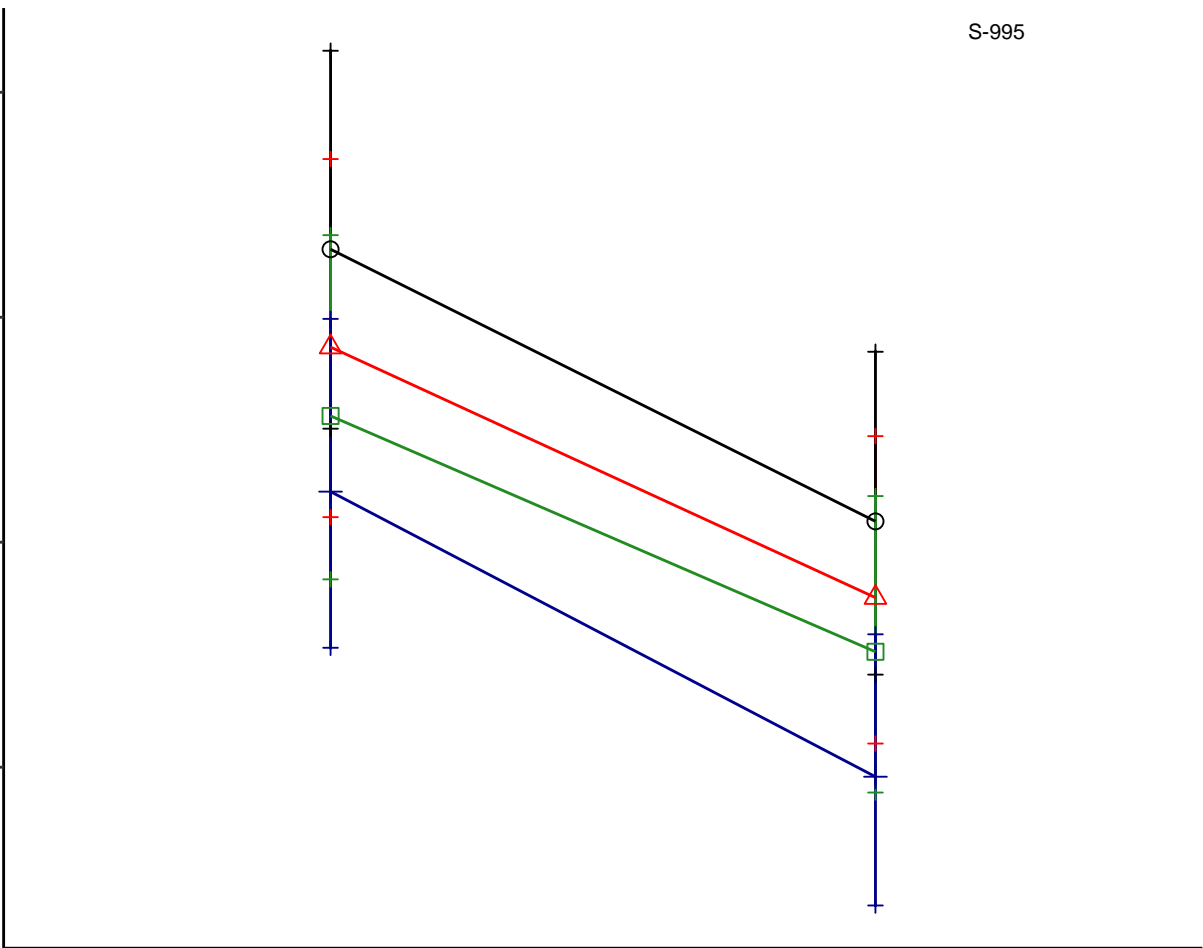
22500  
20000  
17500  
15000

TSB

Media

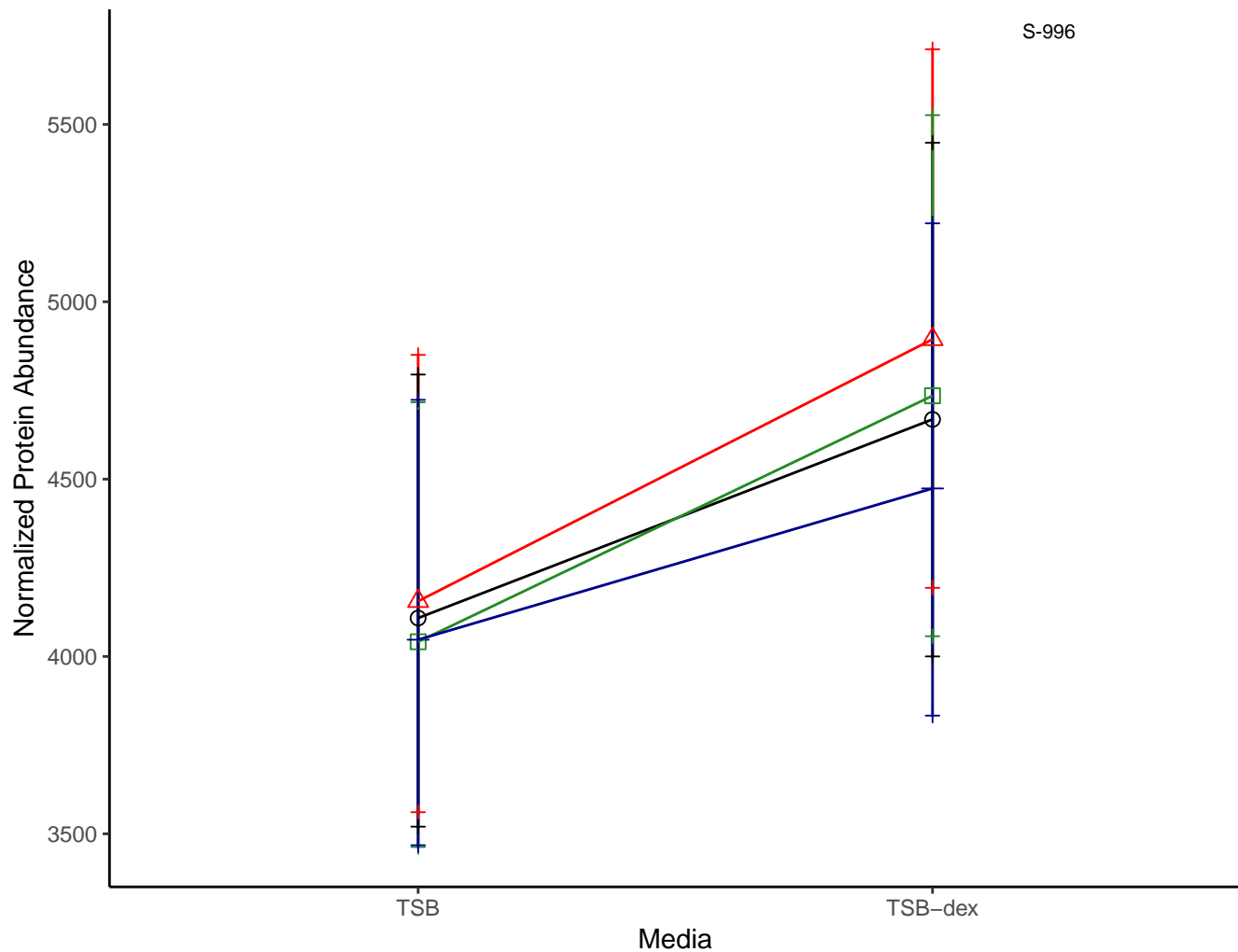
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y385\_STAAM

S-996



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y437\_STAAM

S-997

Normalized Protein Abundance

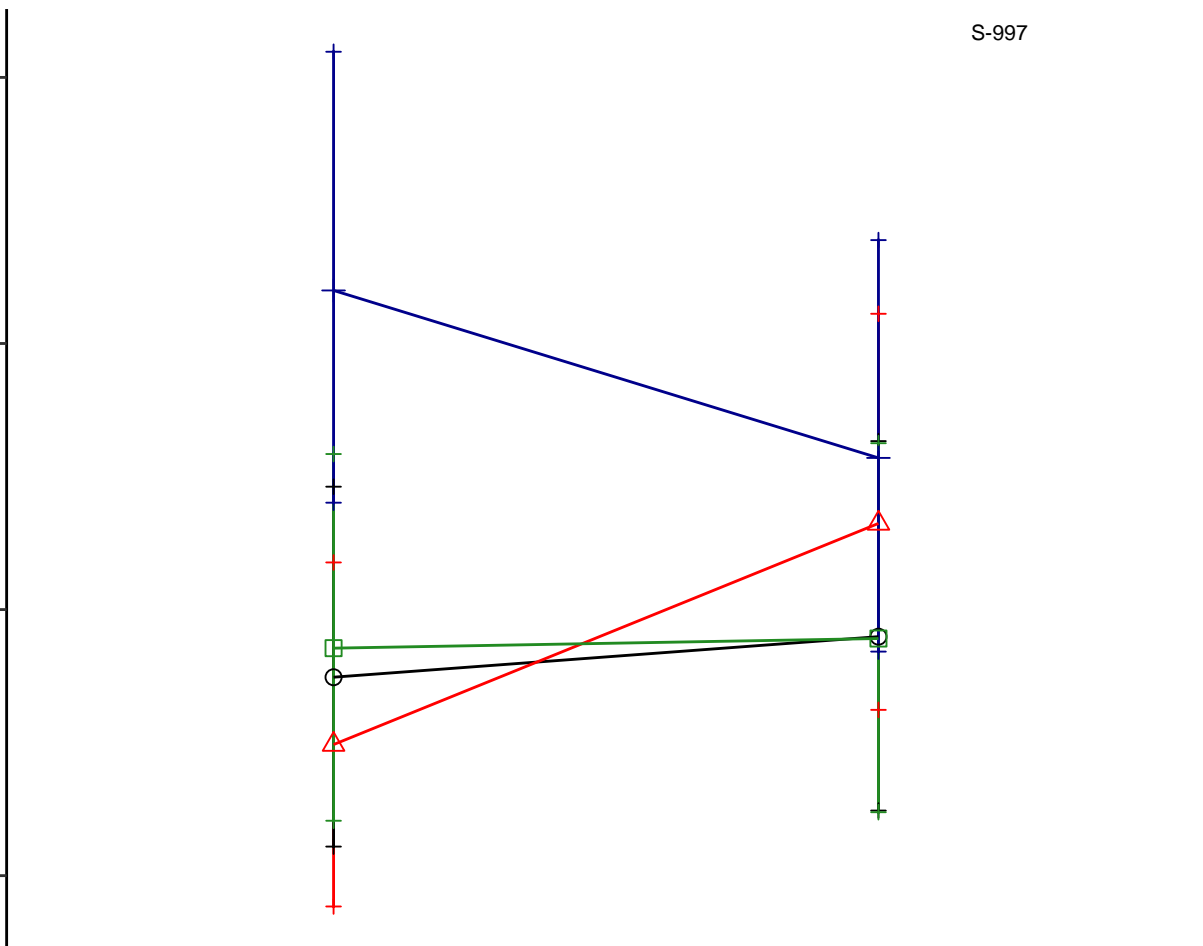
16000  
14000  
12000  
10000

TSB

Media

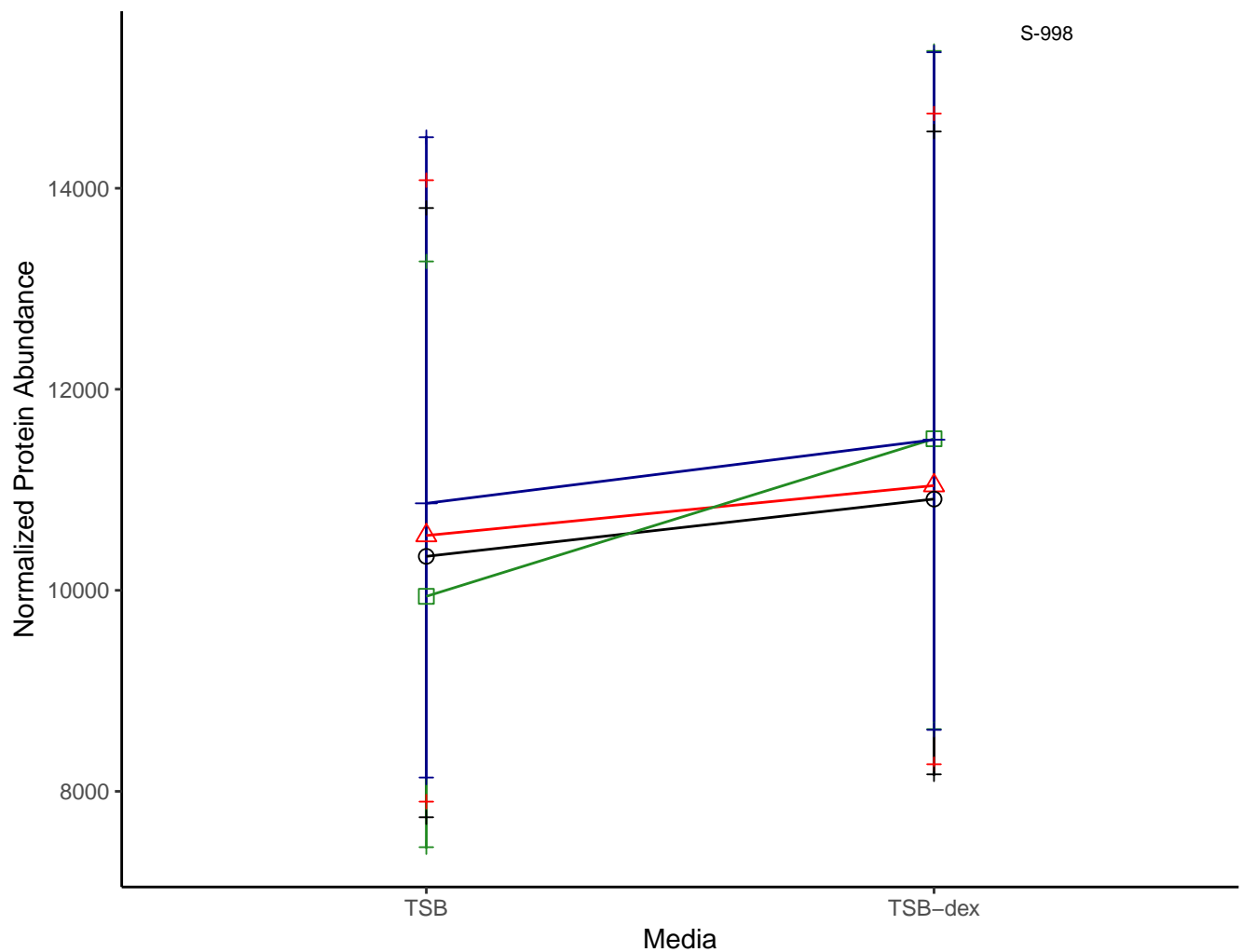
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y479\_STAAM

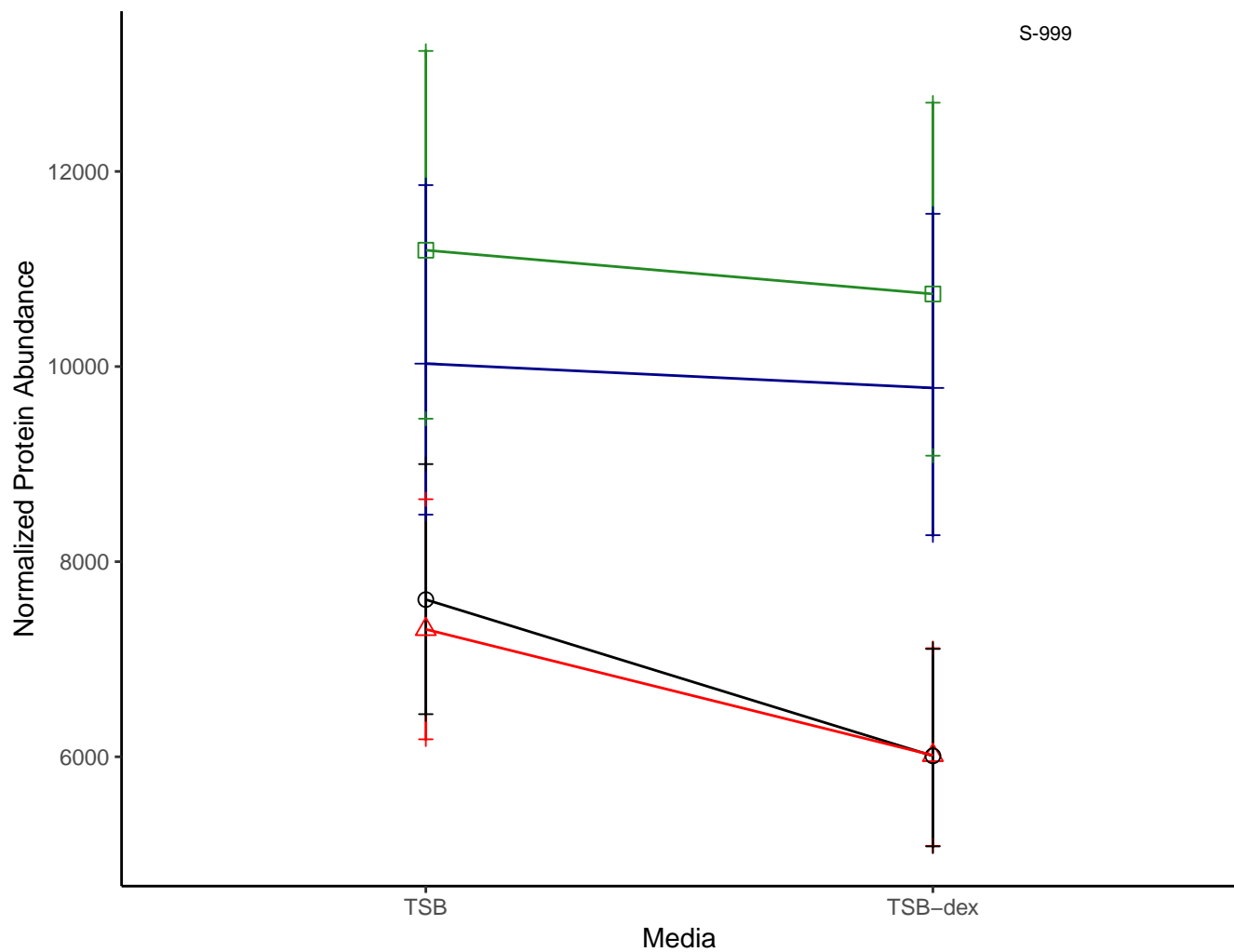
S-998



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊠ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y553\_STAAM

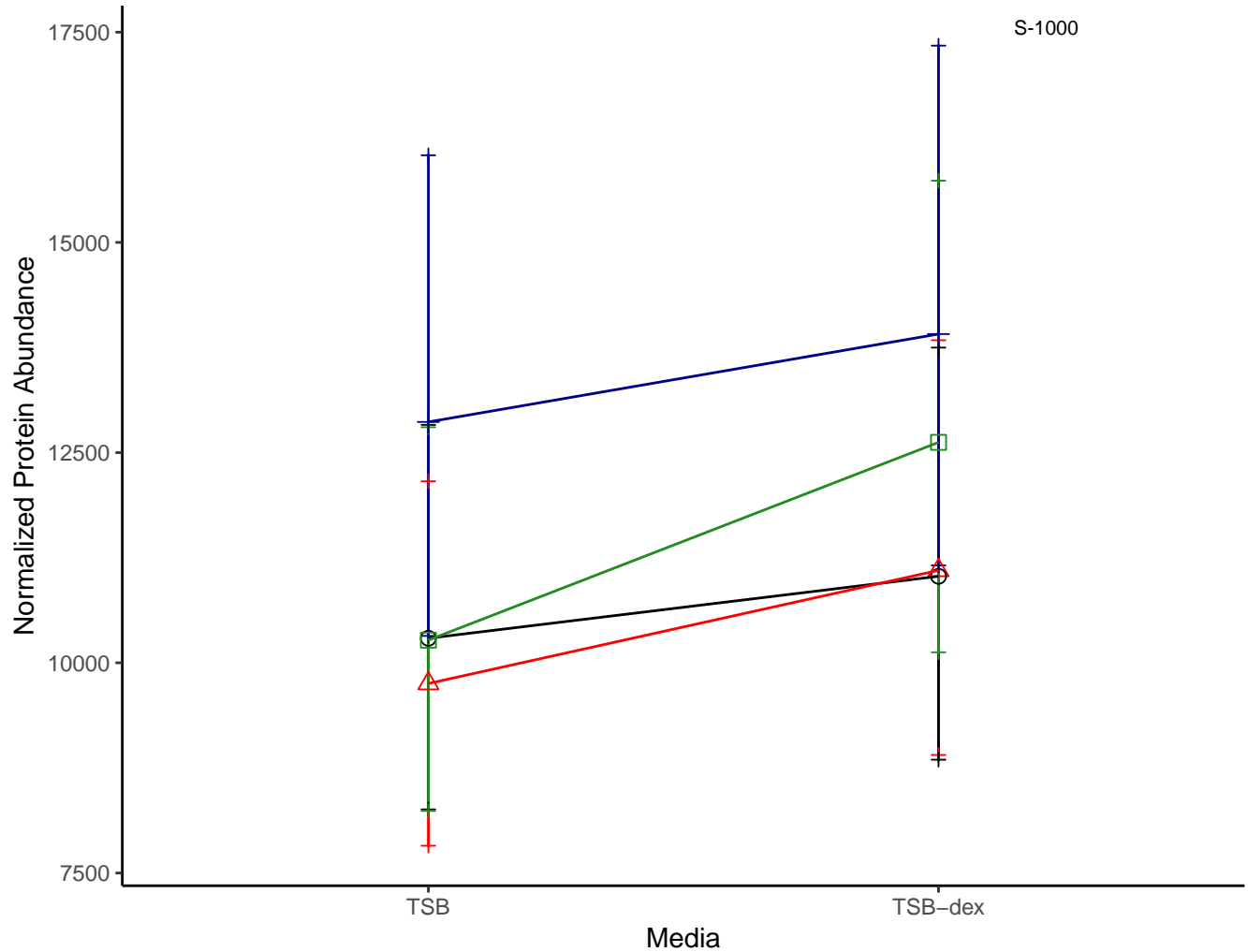
S-999



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y587\_STAAM

S-1000

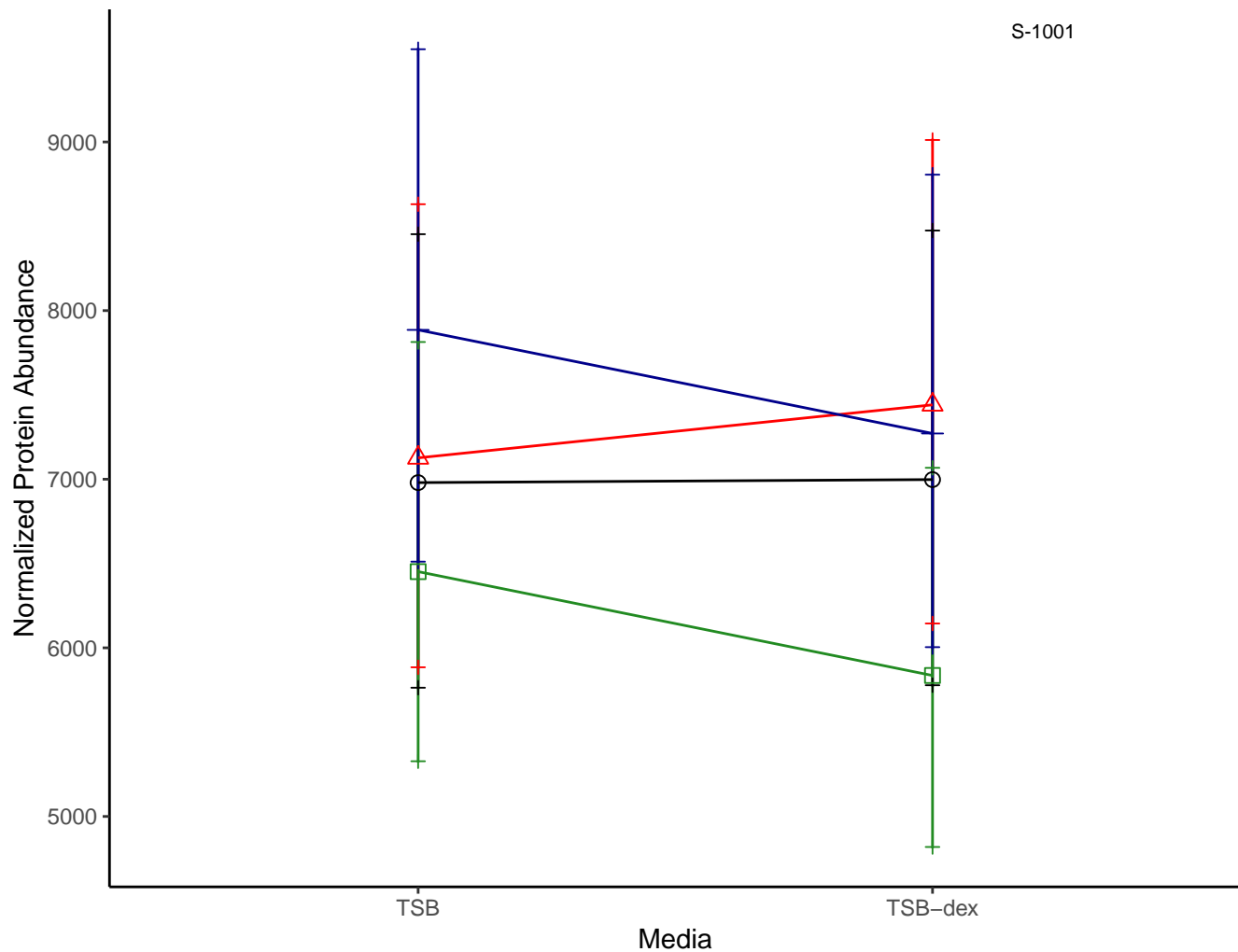


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y669\_STAAM

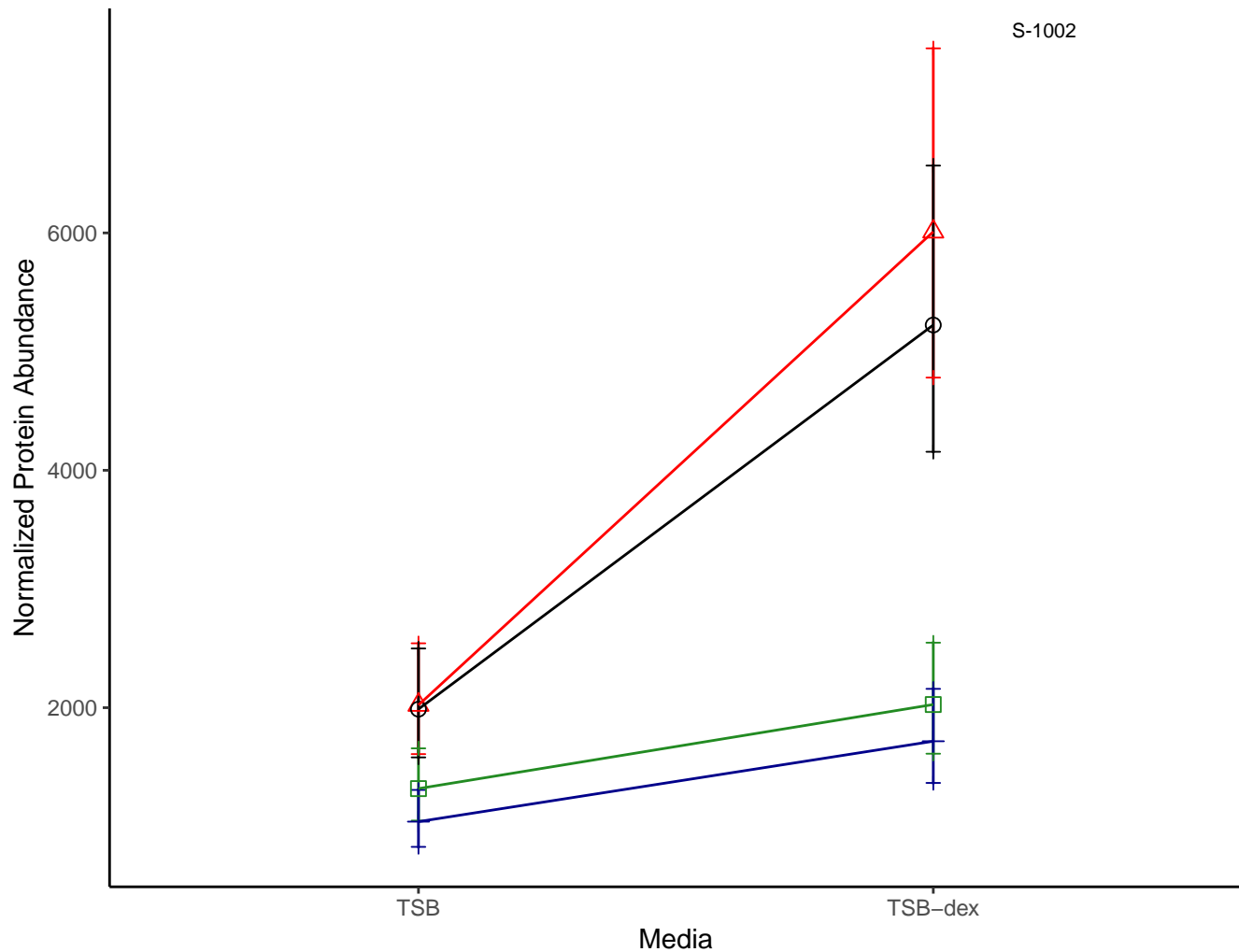
S-1001



- ⊕ SA564
- △ SA564- $\Delta hptRS$
- ⊞ SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y752\_STAAM

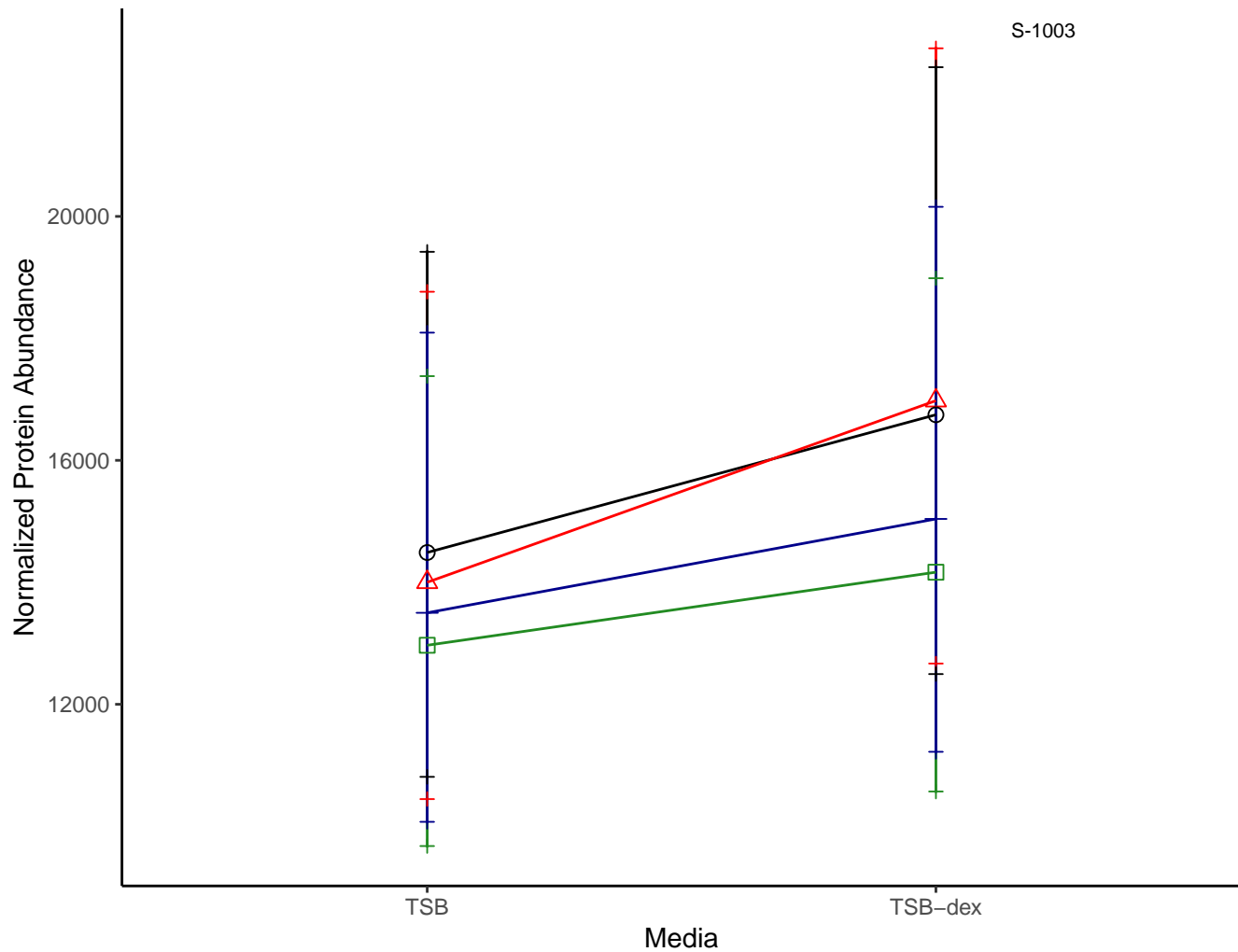
S-1002



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y765\_STAAM

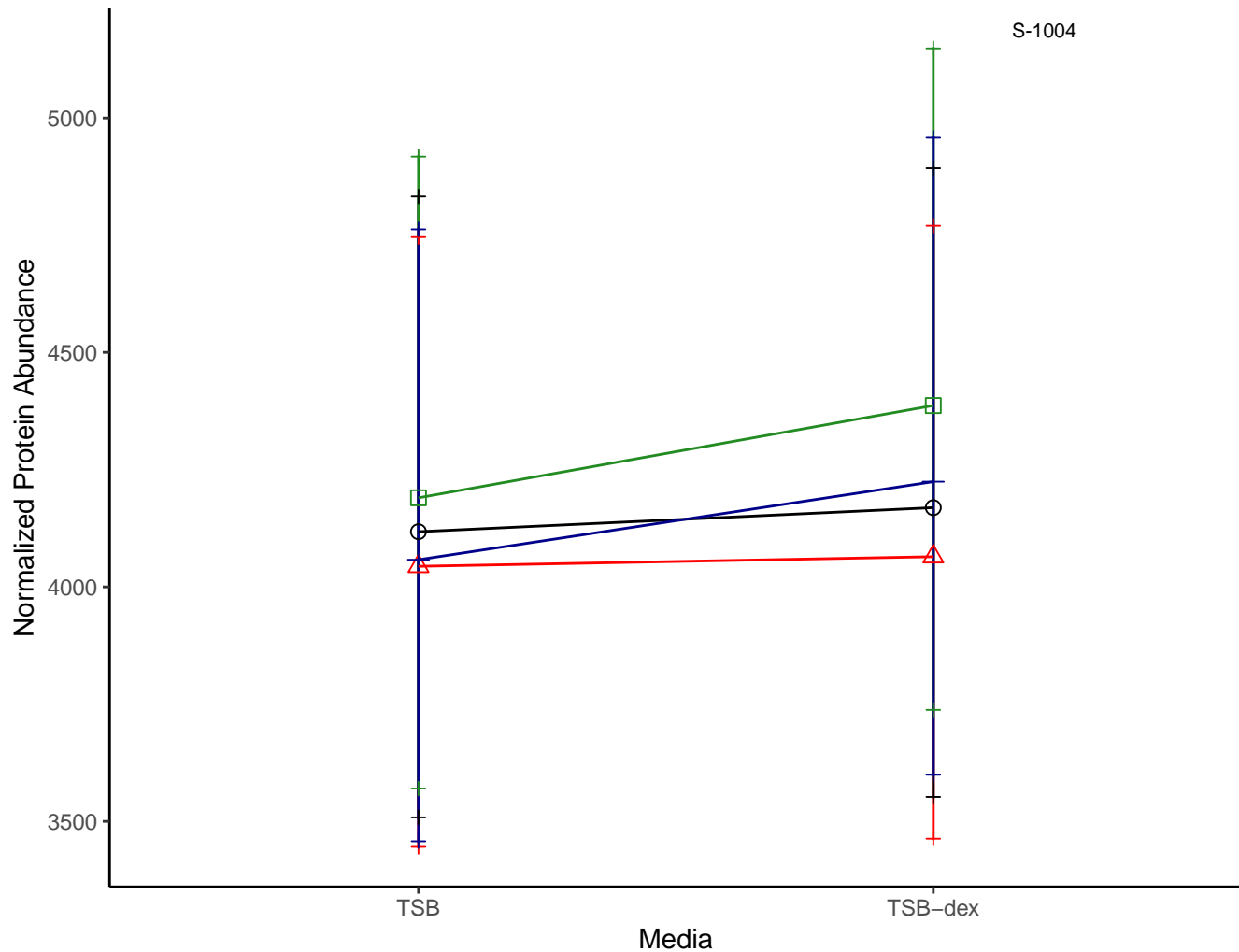
S-1003



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y769\_STAAM

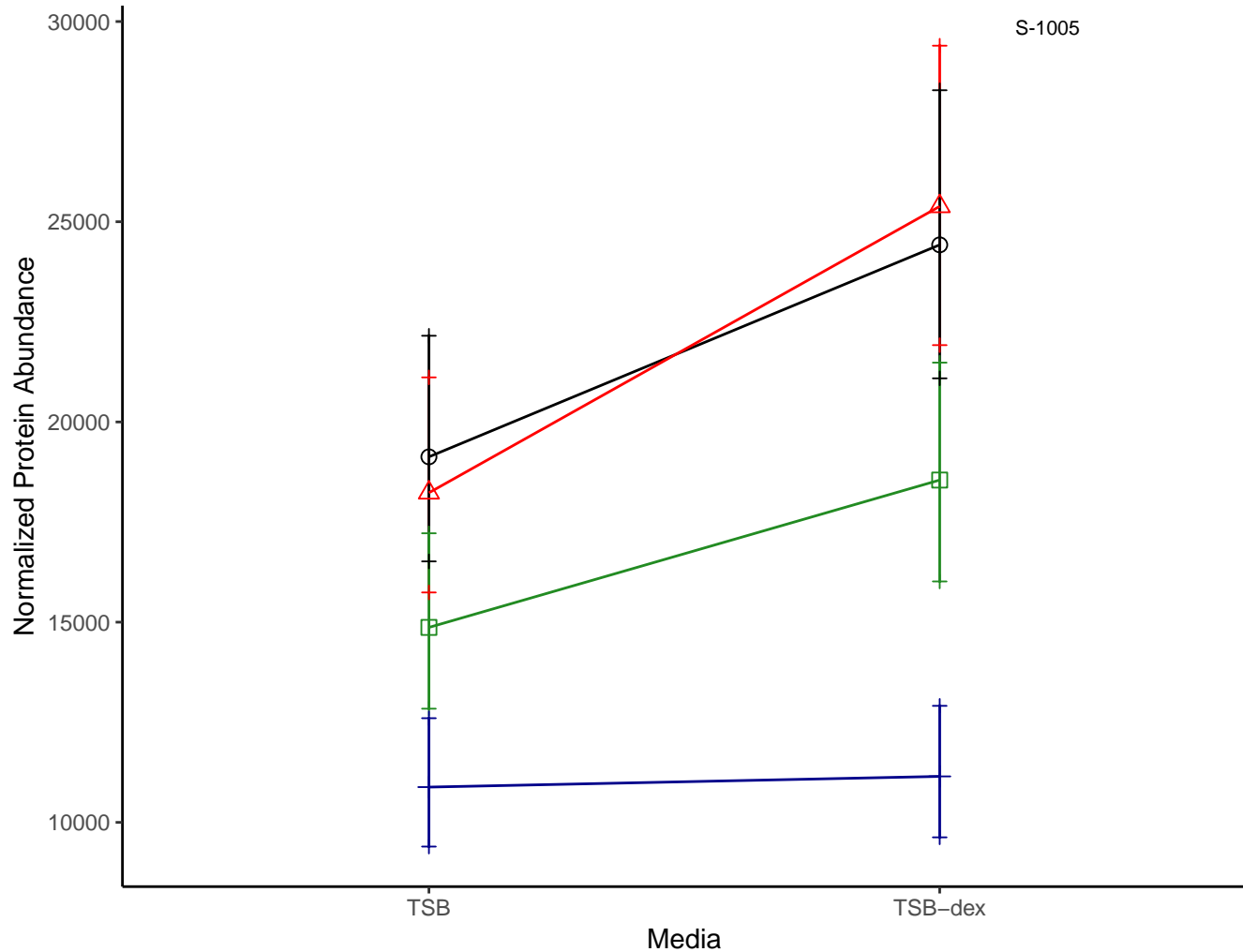
S-1004



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y840\_STAAM

S-1005



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y846\_STAAM

S-1006

Normalized Protein Abundance

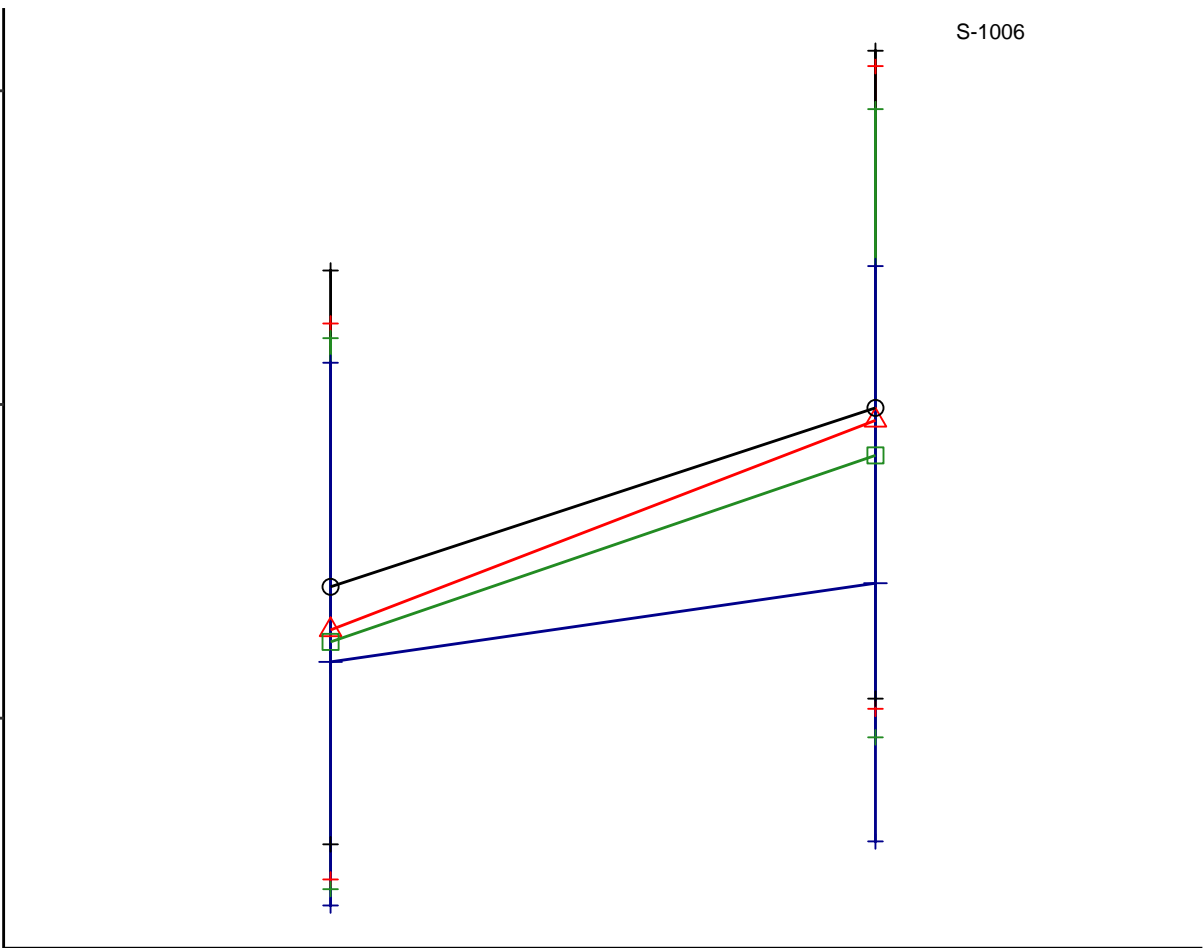
12000  
10000  
8000

TSB

Media

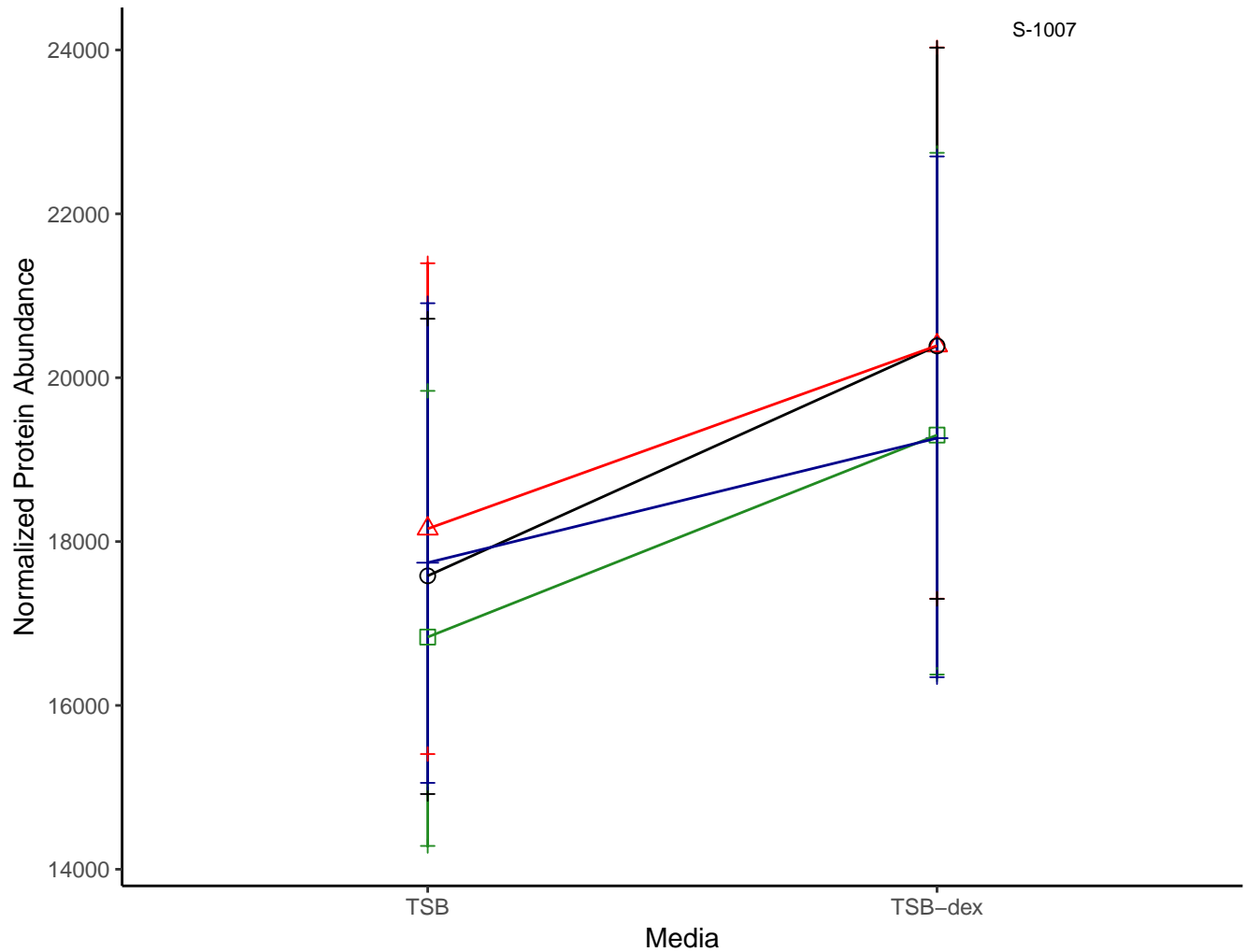
TSB-dex

- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y941\_STAAM

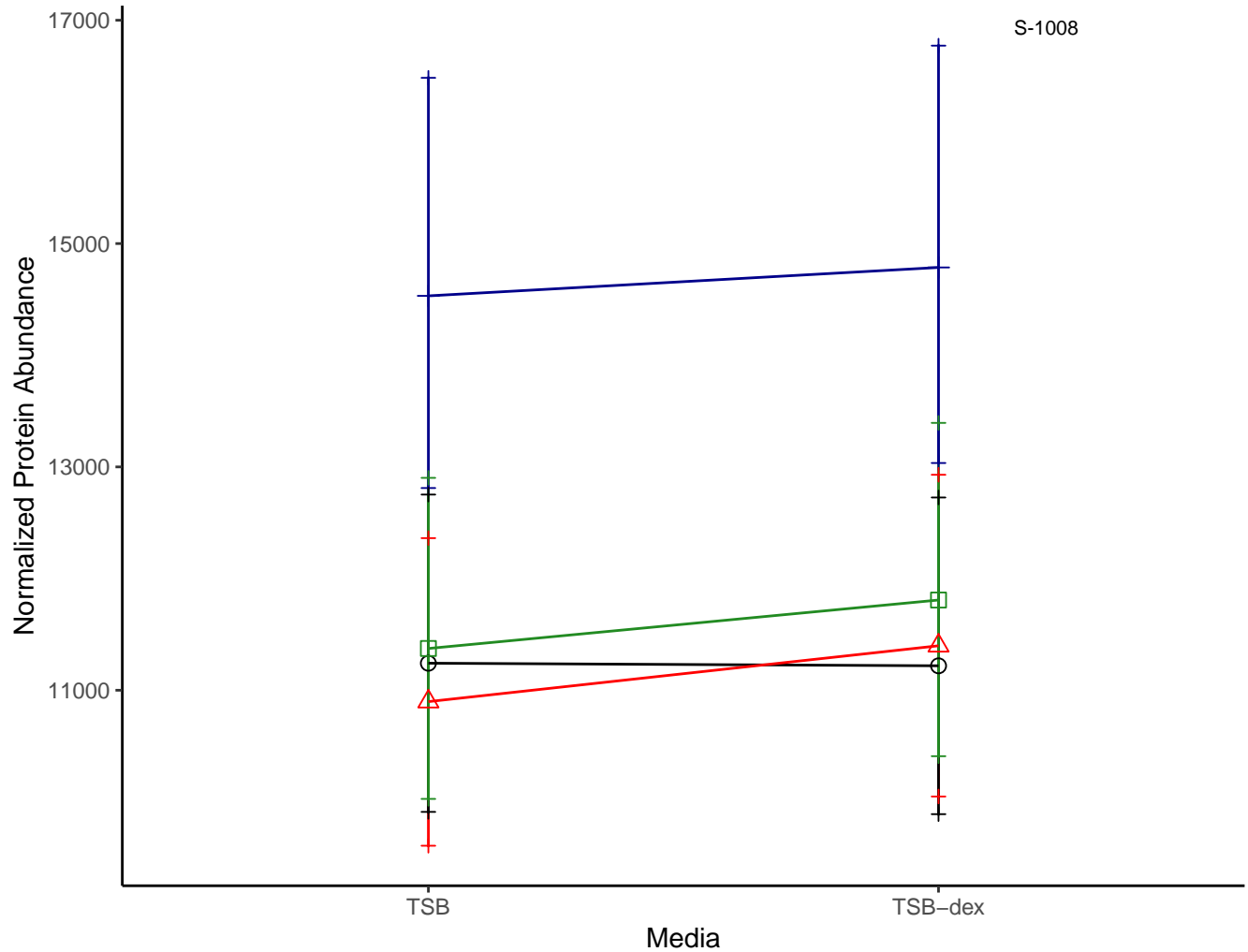
S-1007



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y968\_STAAM

S-1008

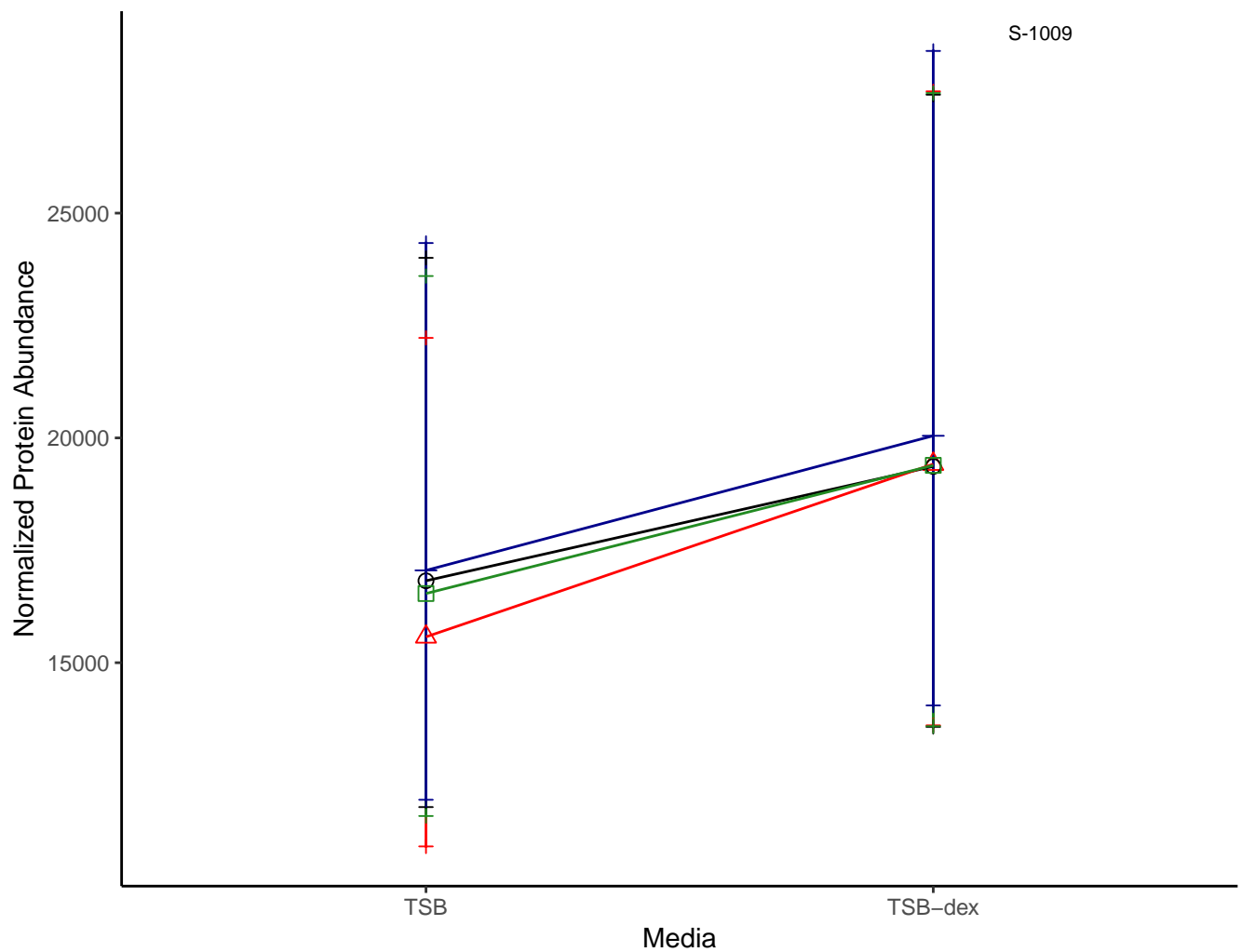


- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# YABA\_STAAM

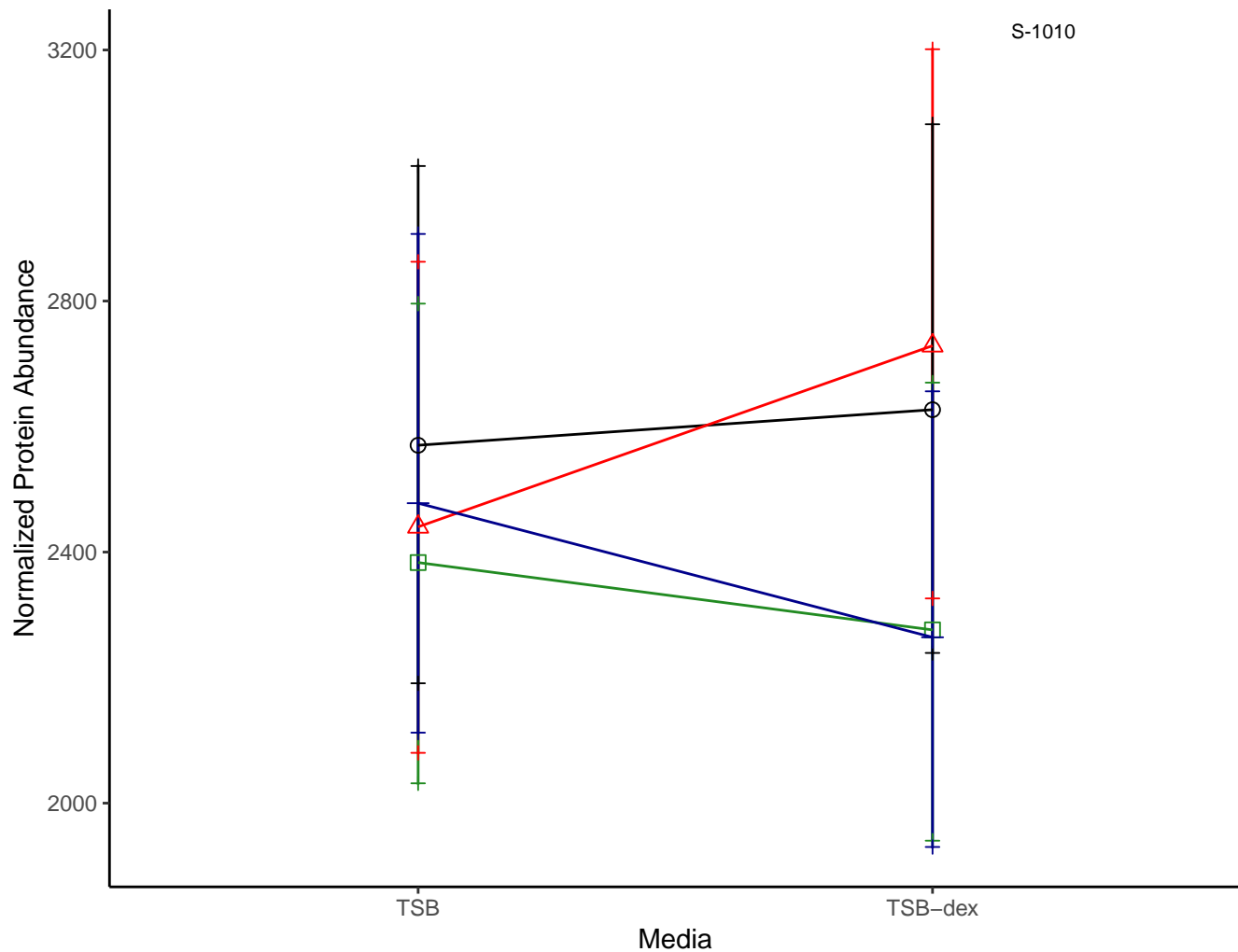
S-1009



- SA564
- SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- SA564- $\Delta hptRS/ccpA$

# YBEY\_STAAM

S-1010



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

**Figure H.**

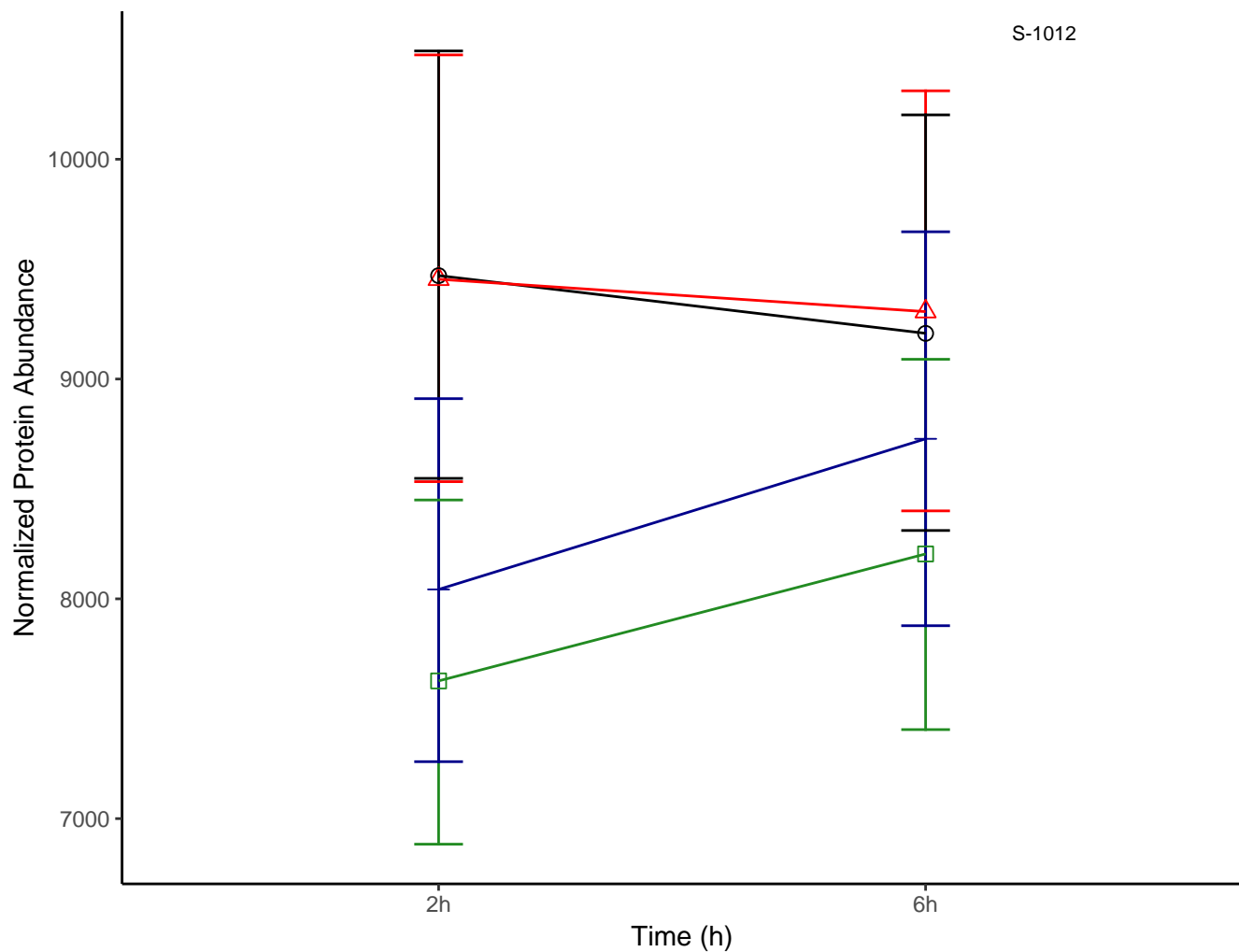
2-way analysis: s x h | m

Pages: S1011-S1512

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if a 3-way interaction was rejected and 2-way interaction was identified between strain and hour.

# 6PGD\_STAAM

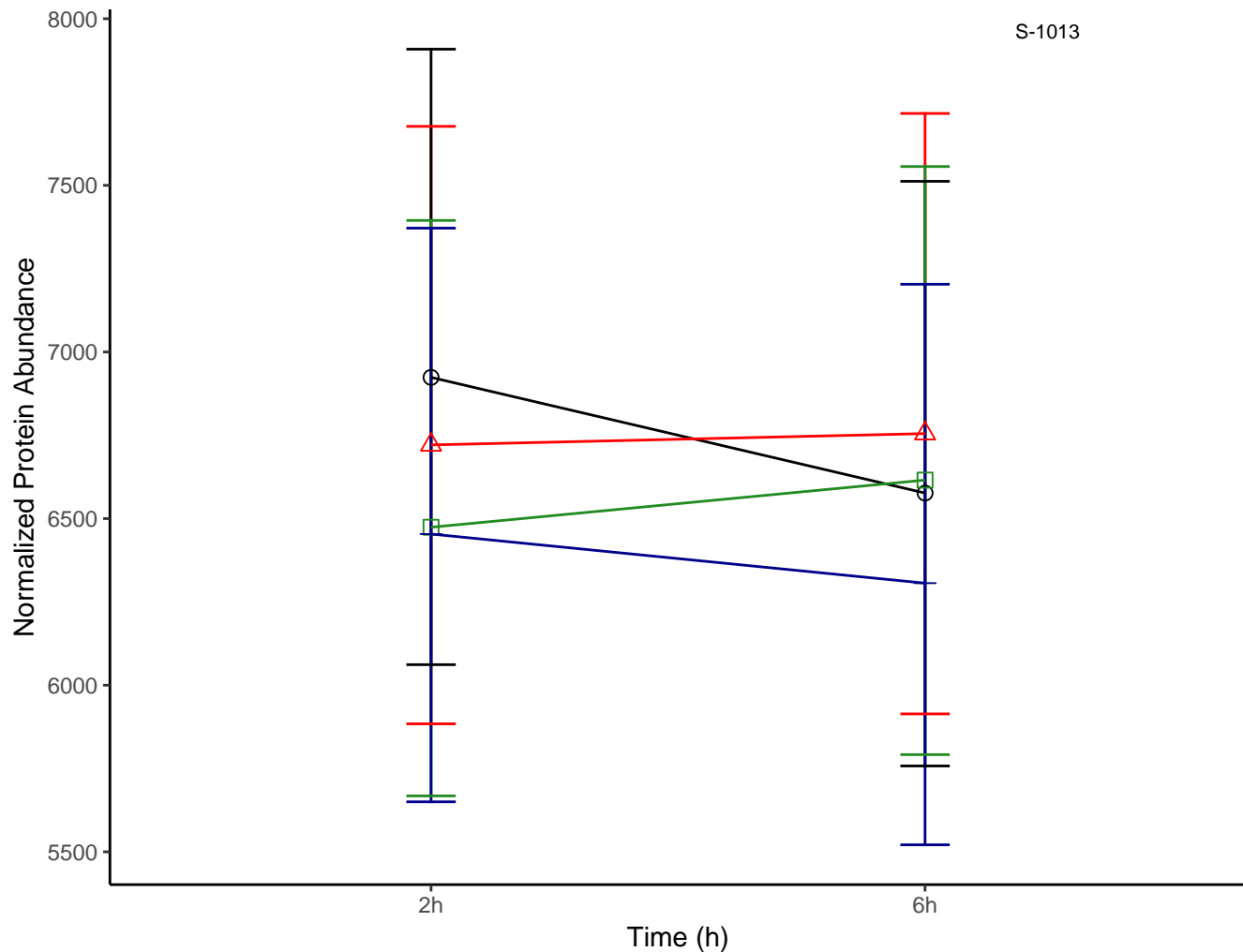
S-1012



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ACCA\_STAAM

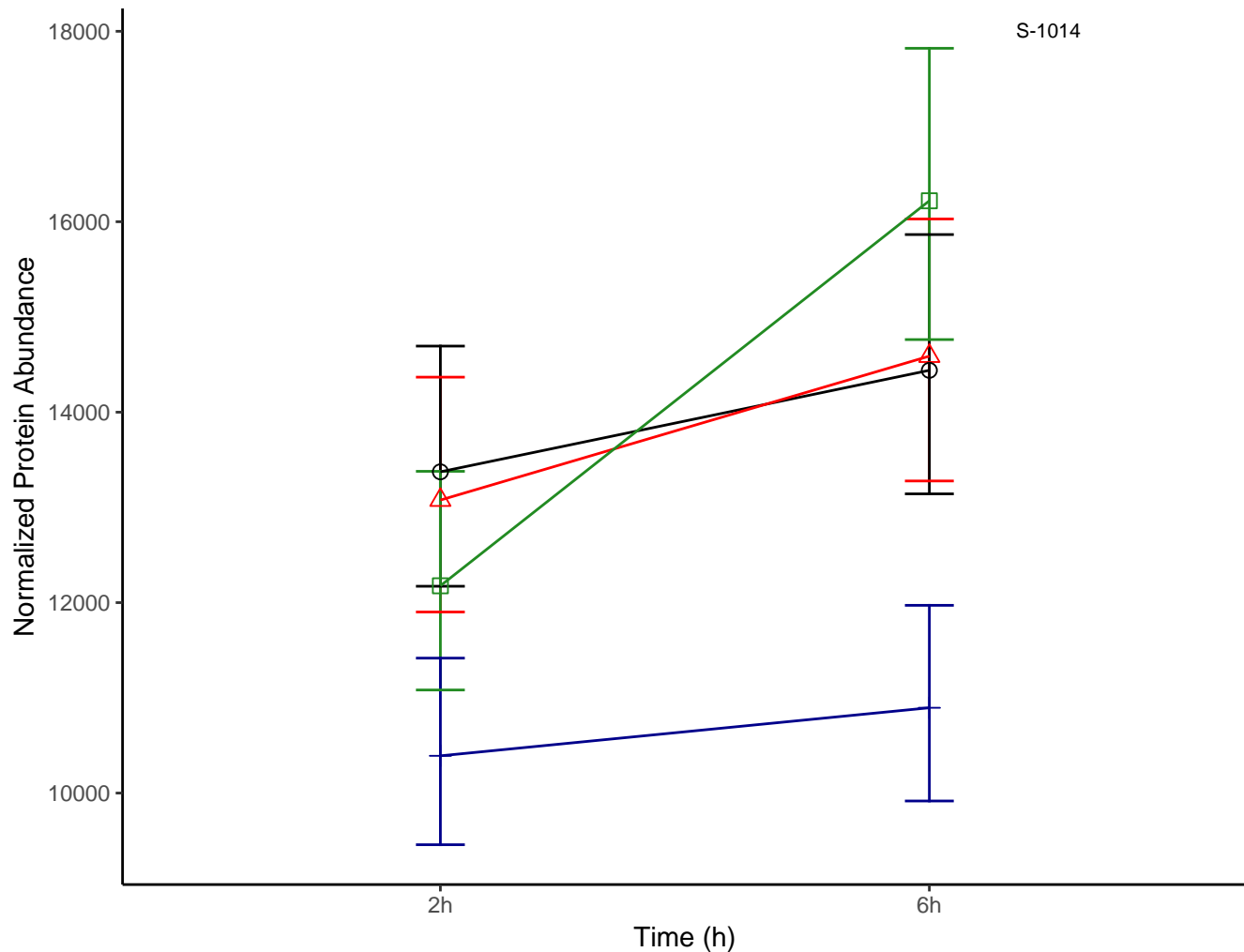
S-1013



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ACKA\_STAAM

S-1014



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACON\_STAAM

S-1015

Normalized Protein Abundance

15000

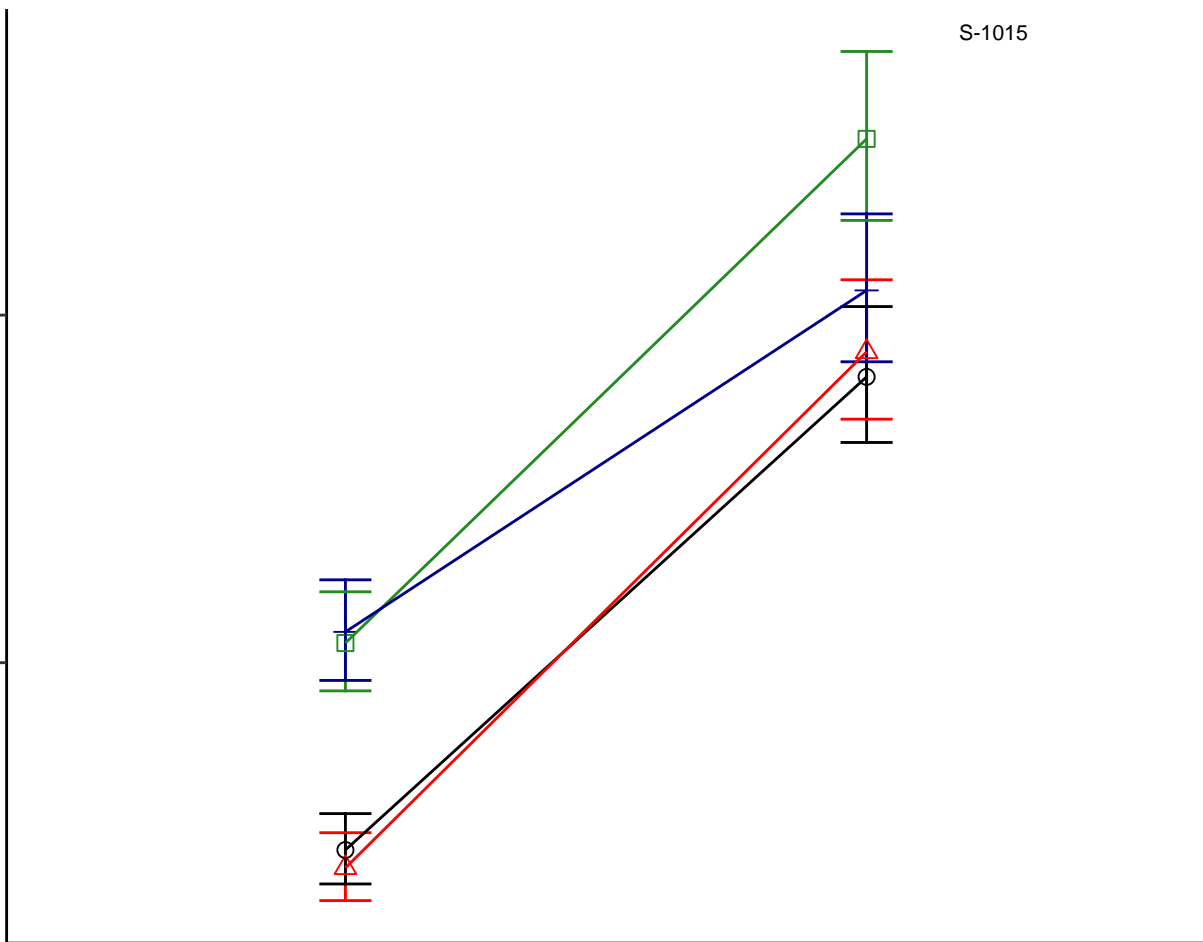
10000

2h

6h

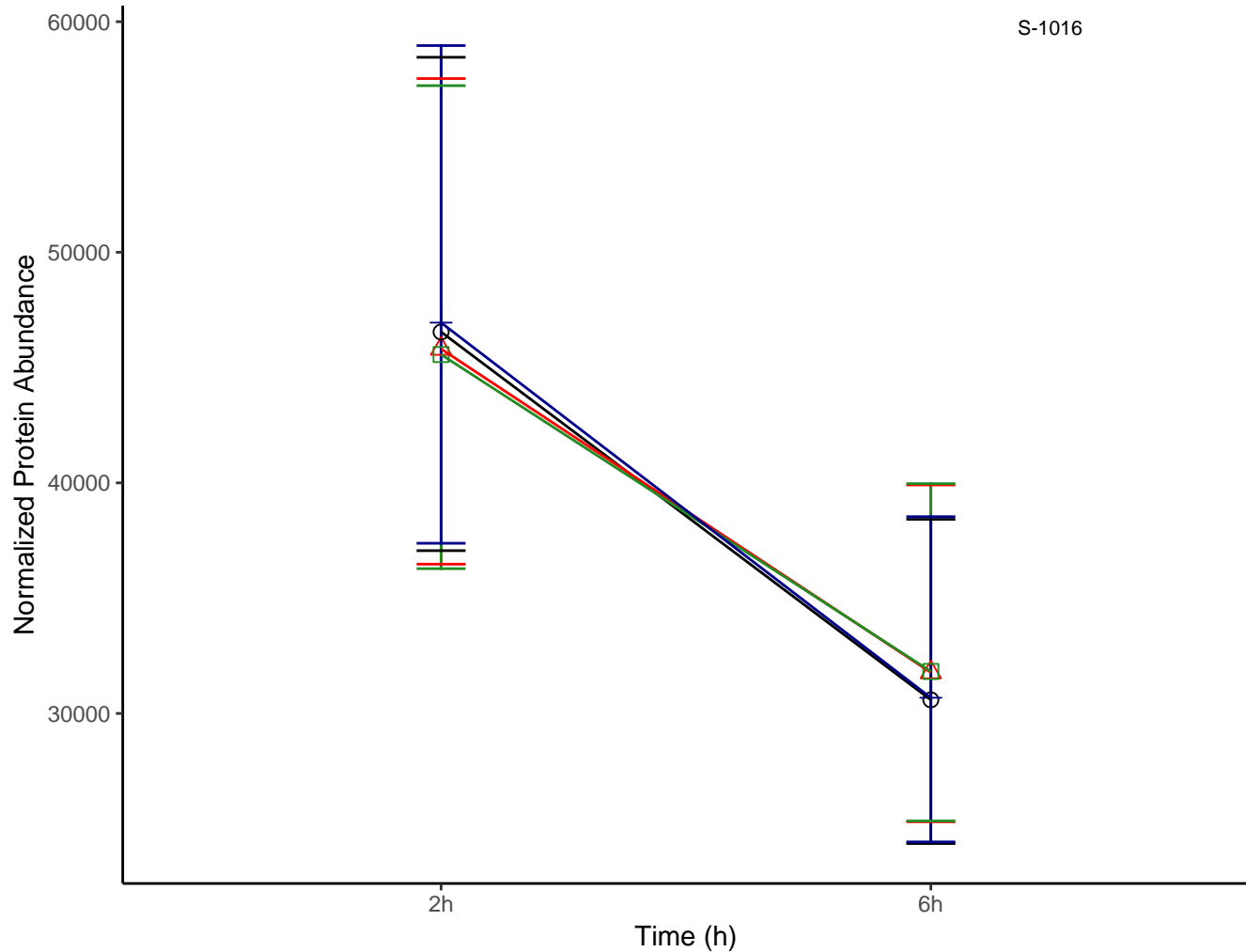
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ACP\_STAAM

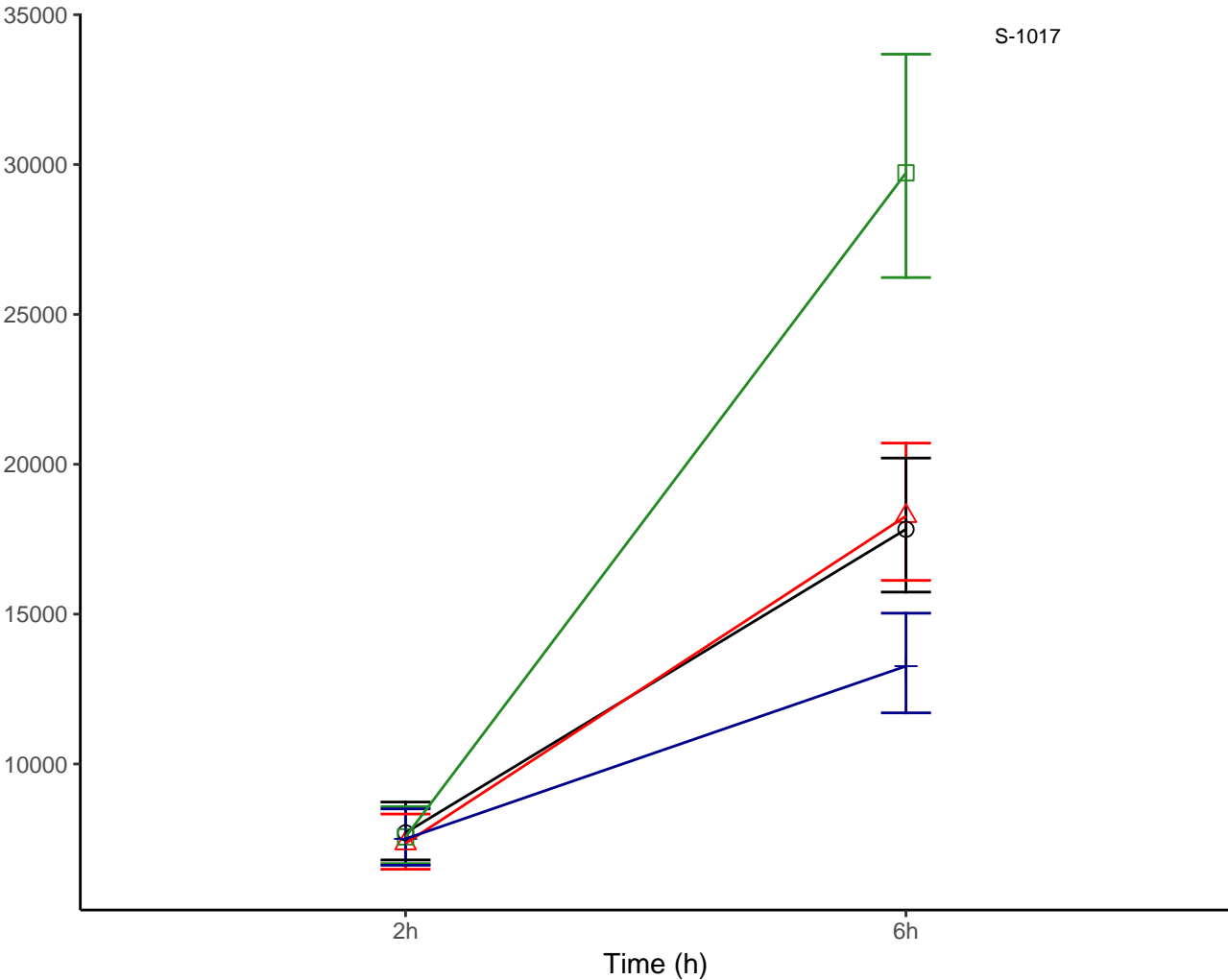
S-1016



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



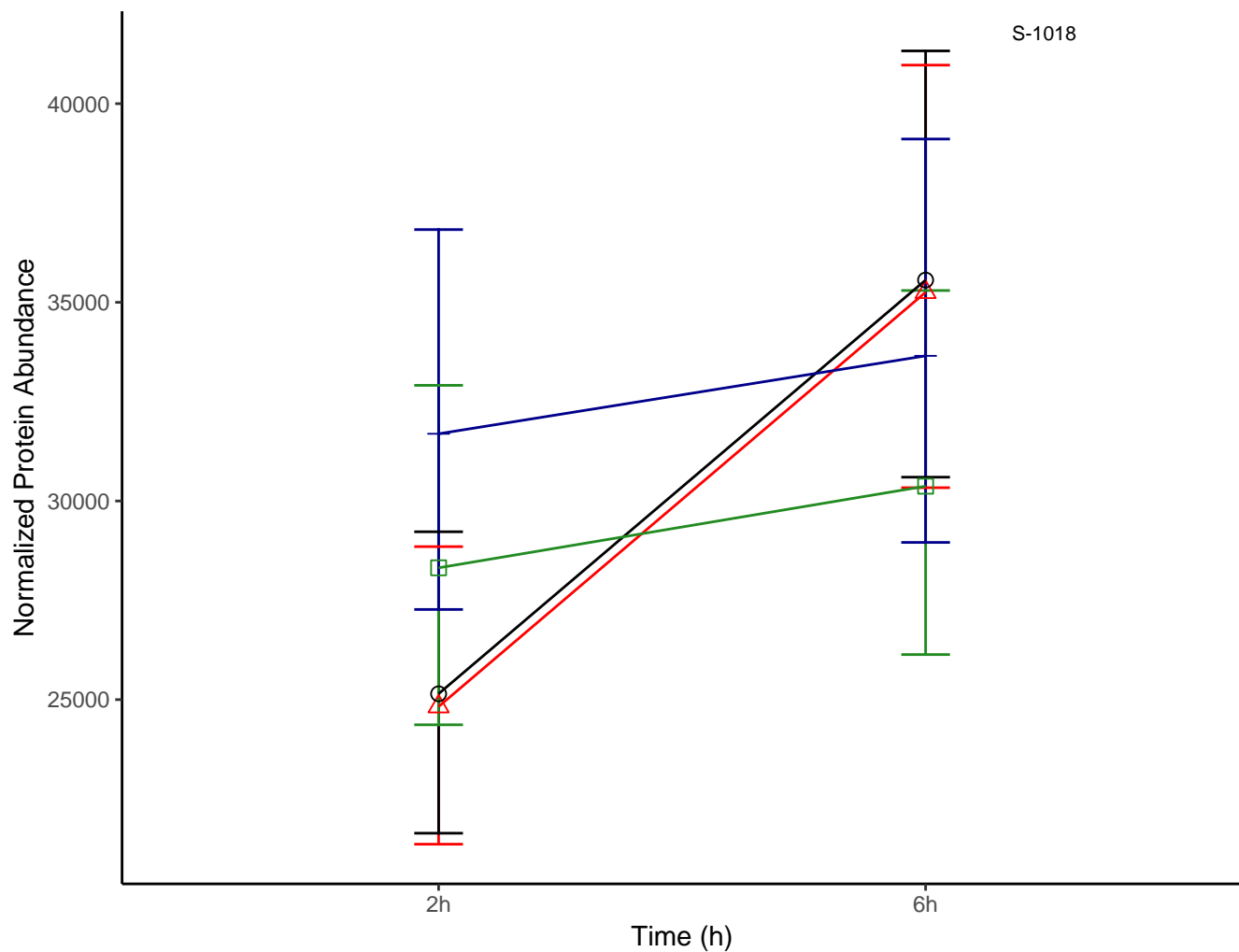
# ADH\_STAAM



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# AHPC\_STAAM

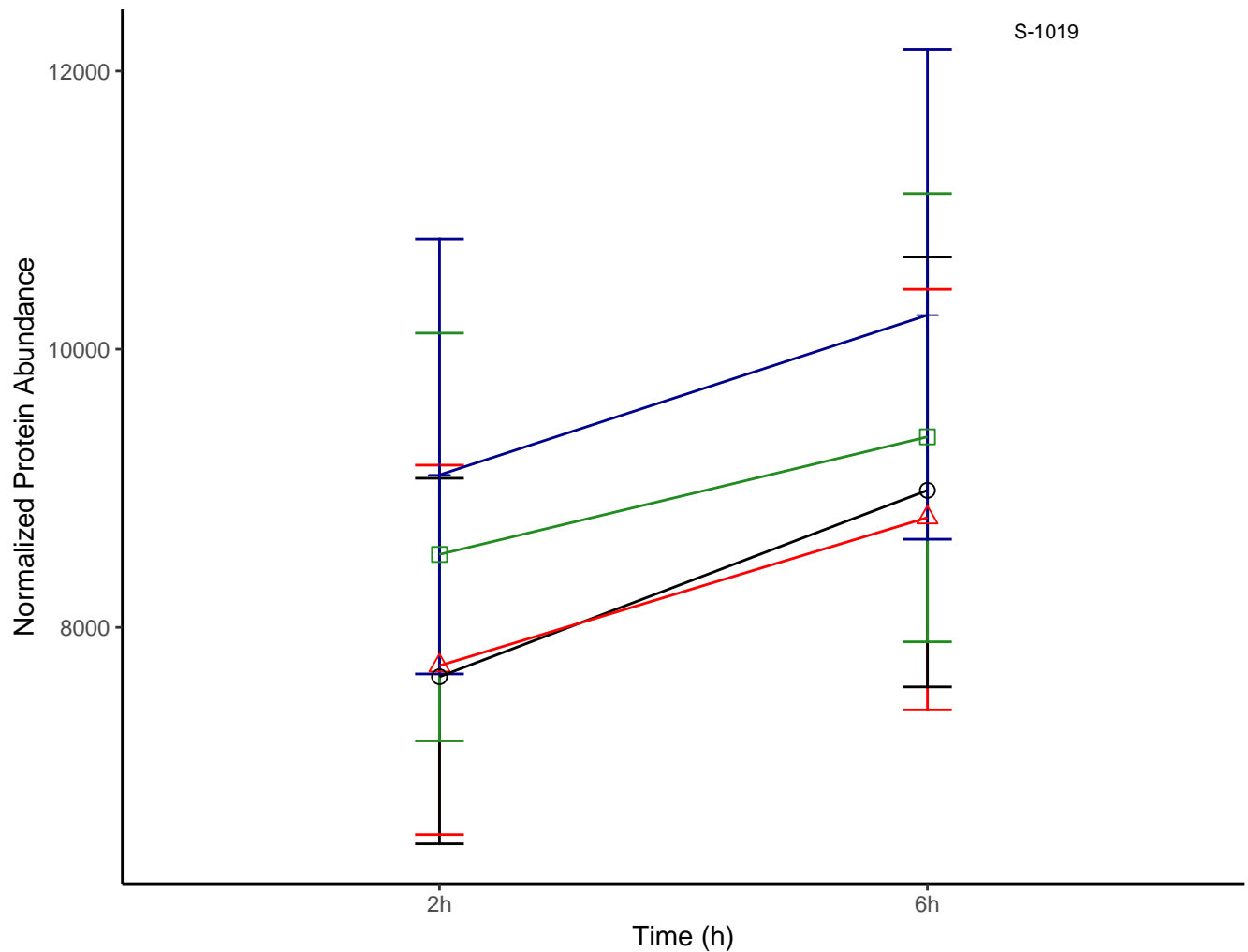
S-1018



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# AHPF\_STAAM

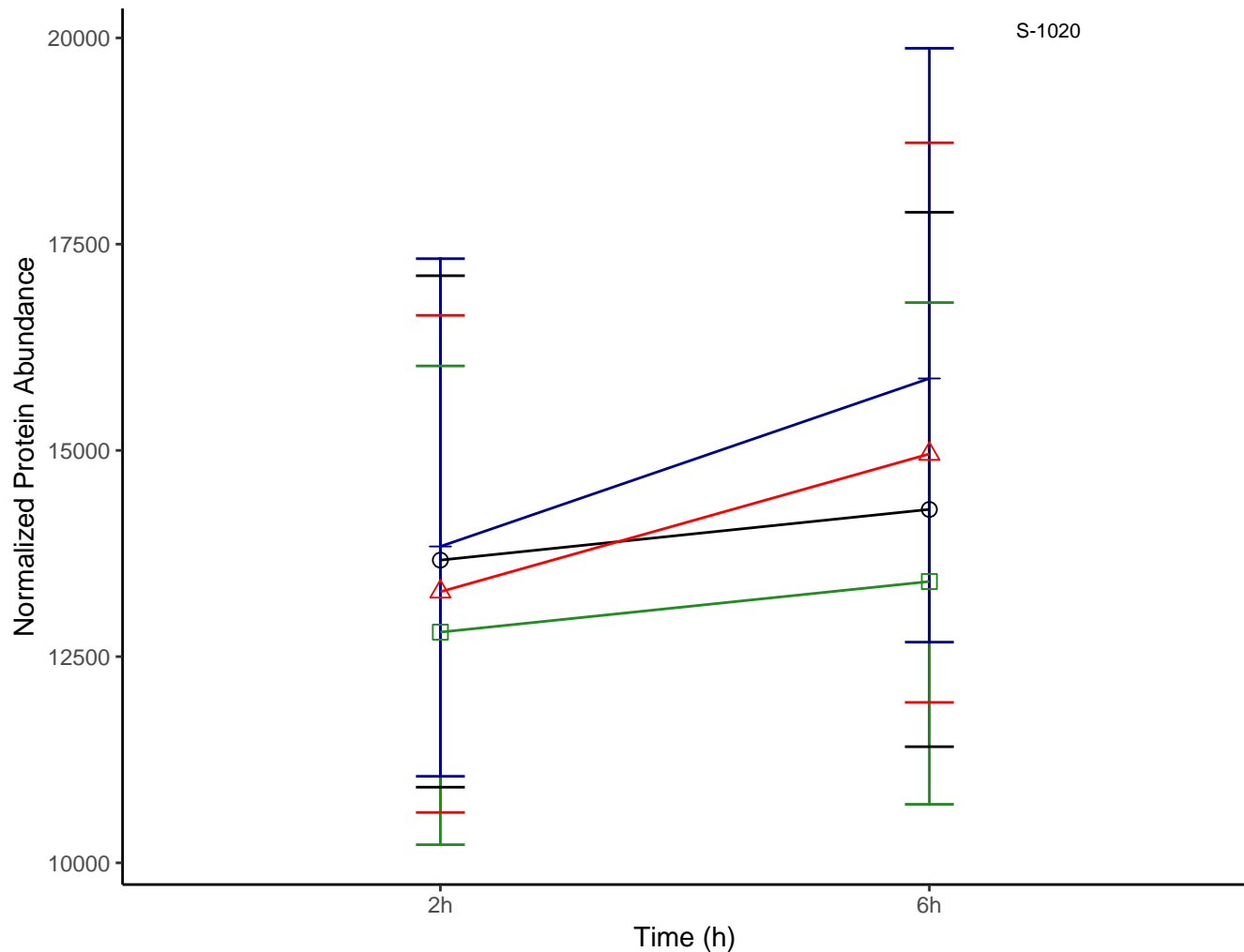
S-1019



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ALD1\_STAAM

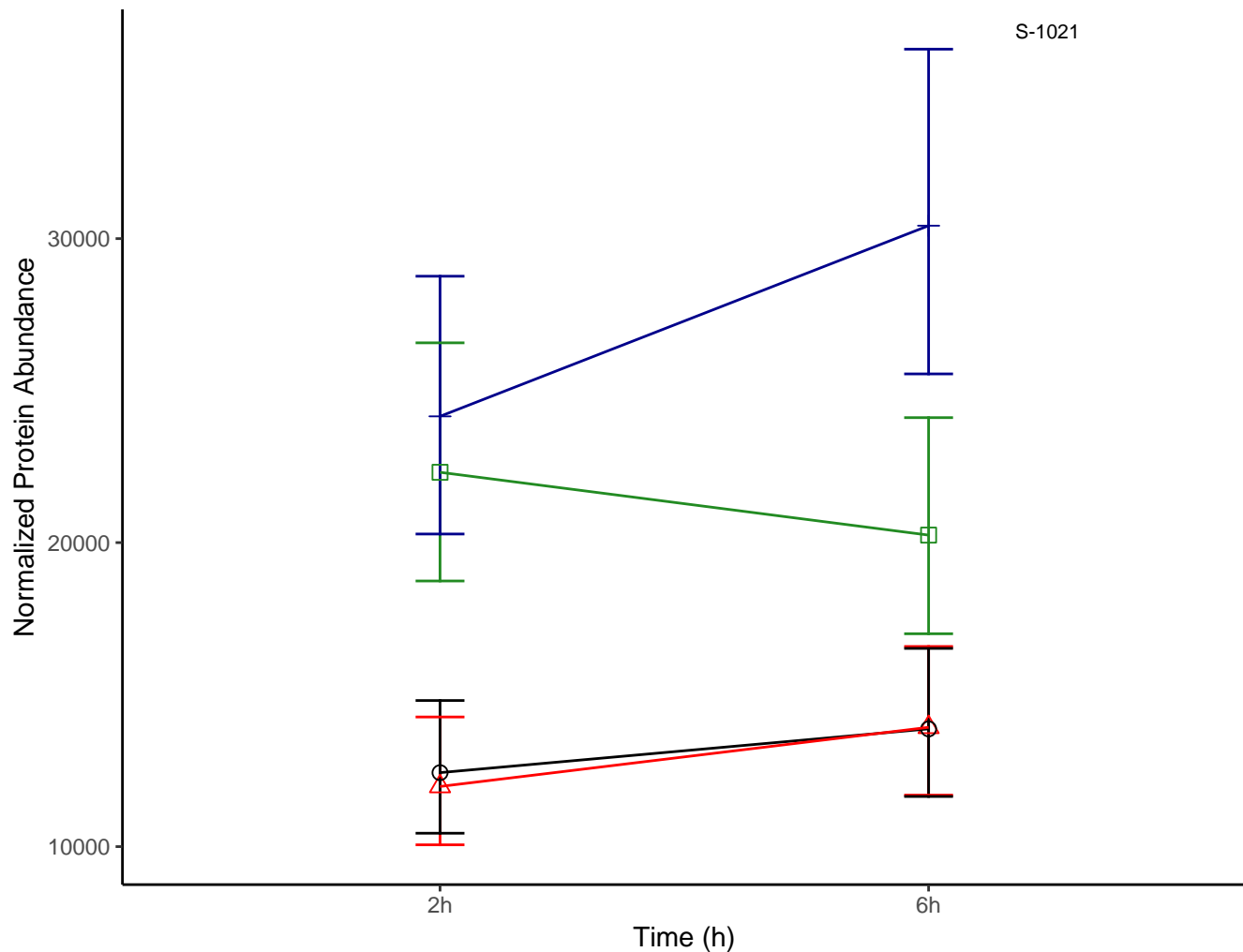
S-1020



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ALDA\_STAAM

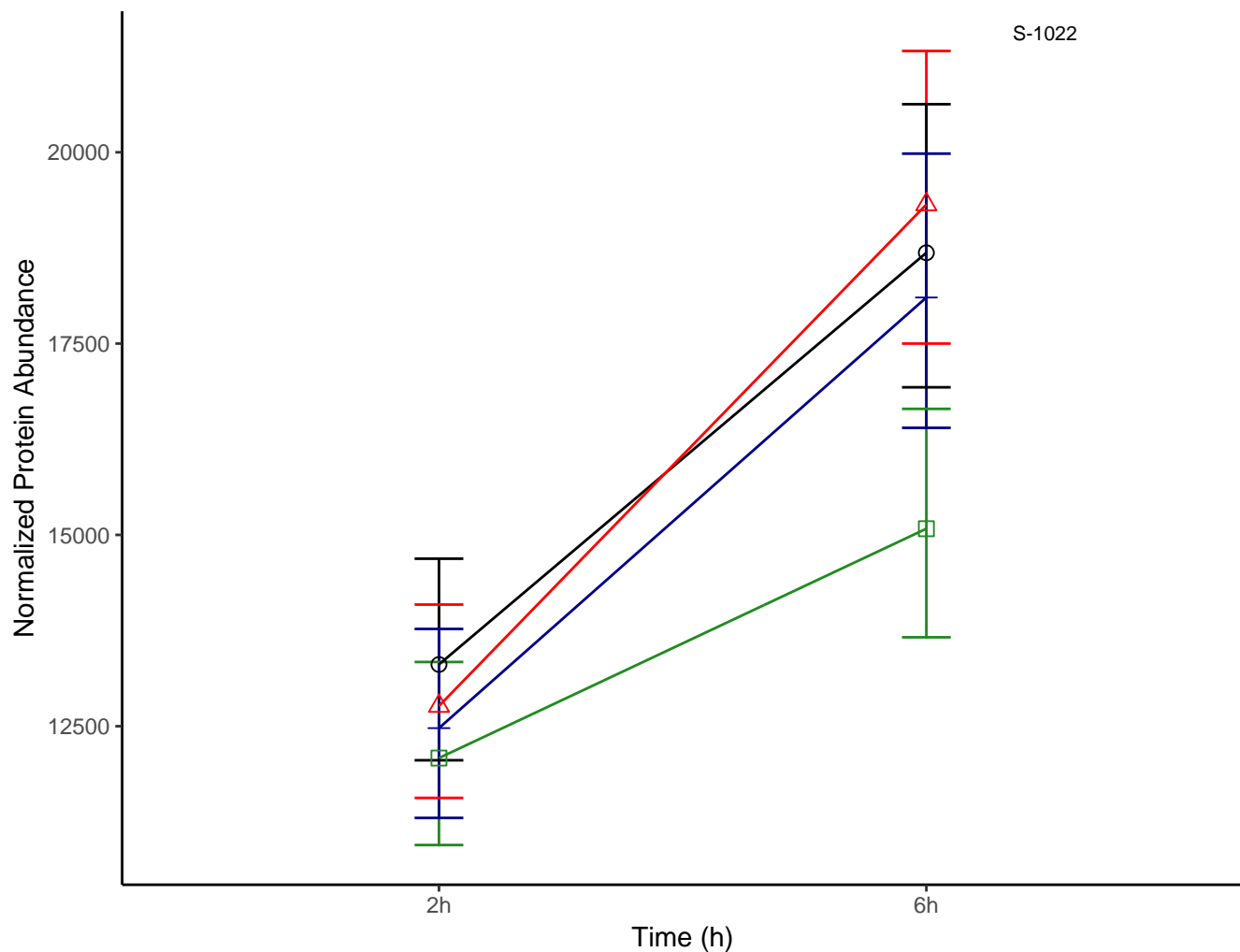
S-1021



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ALF1\_STAAM

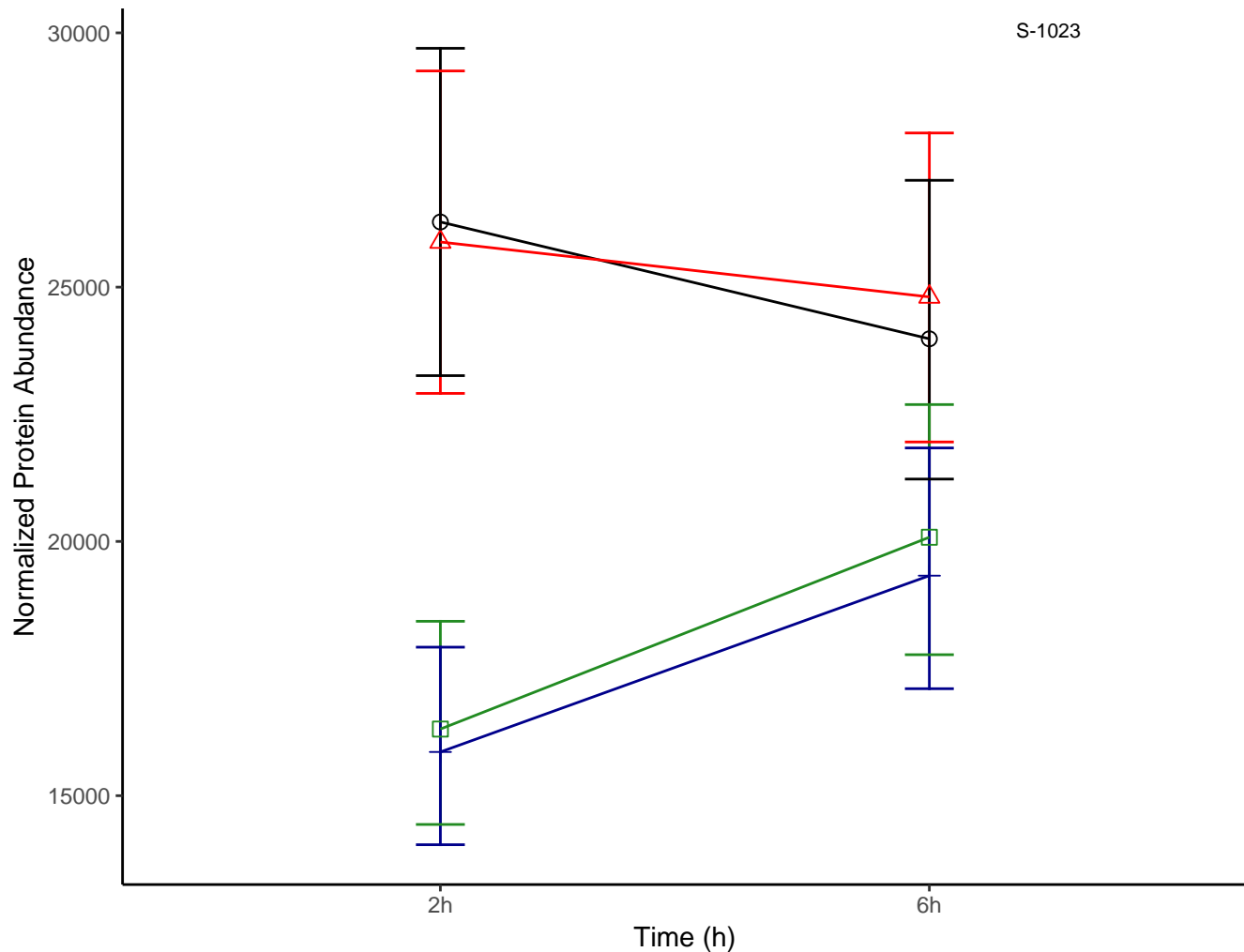
S-1022



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ALF2\_STAAM

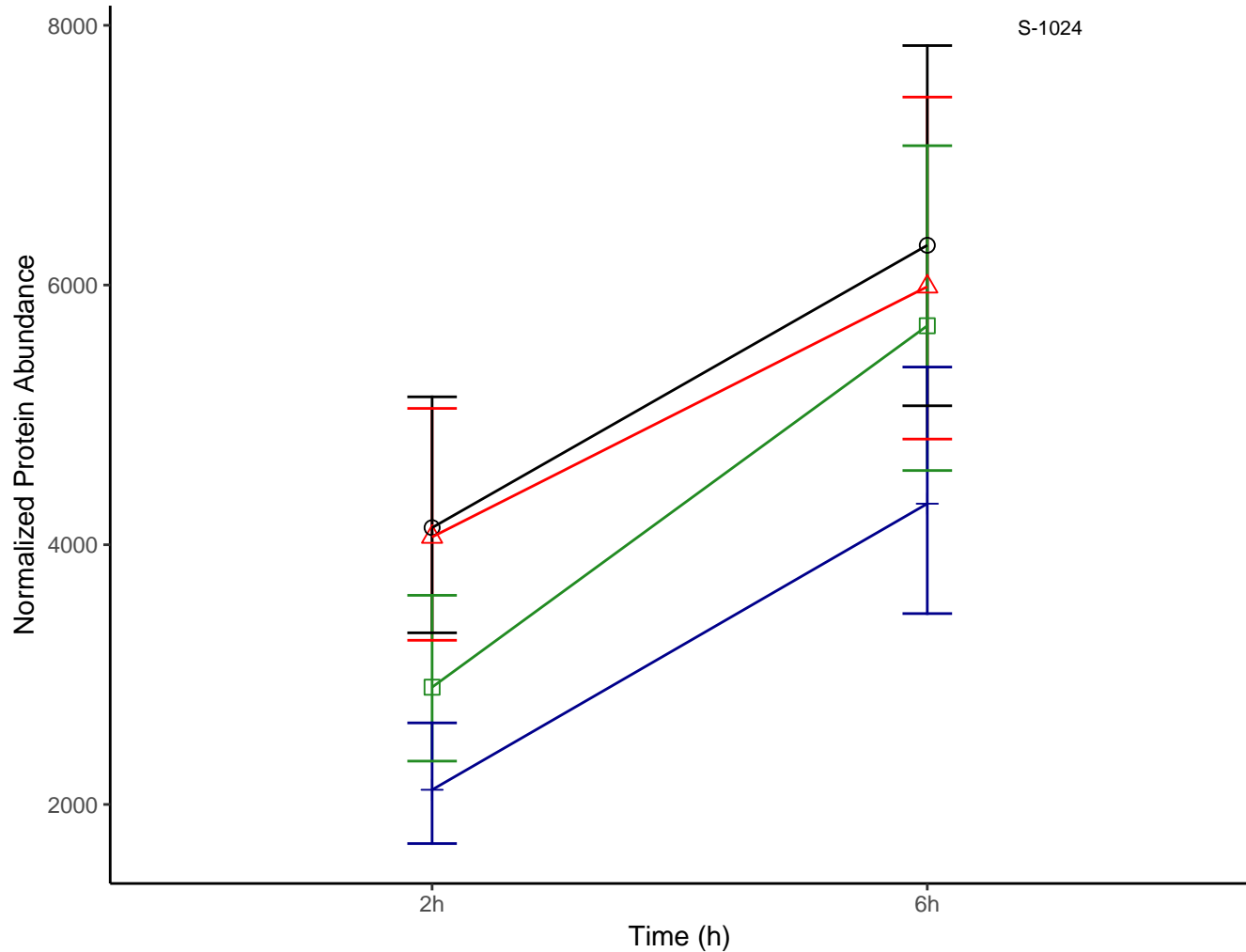
S-1023



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## APT\_STAAM

S-1024

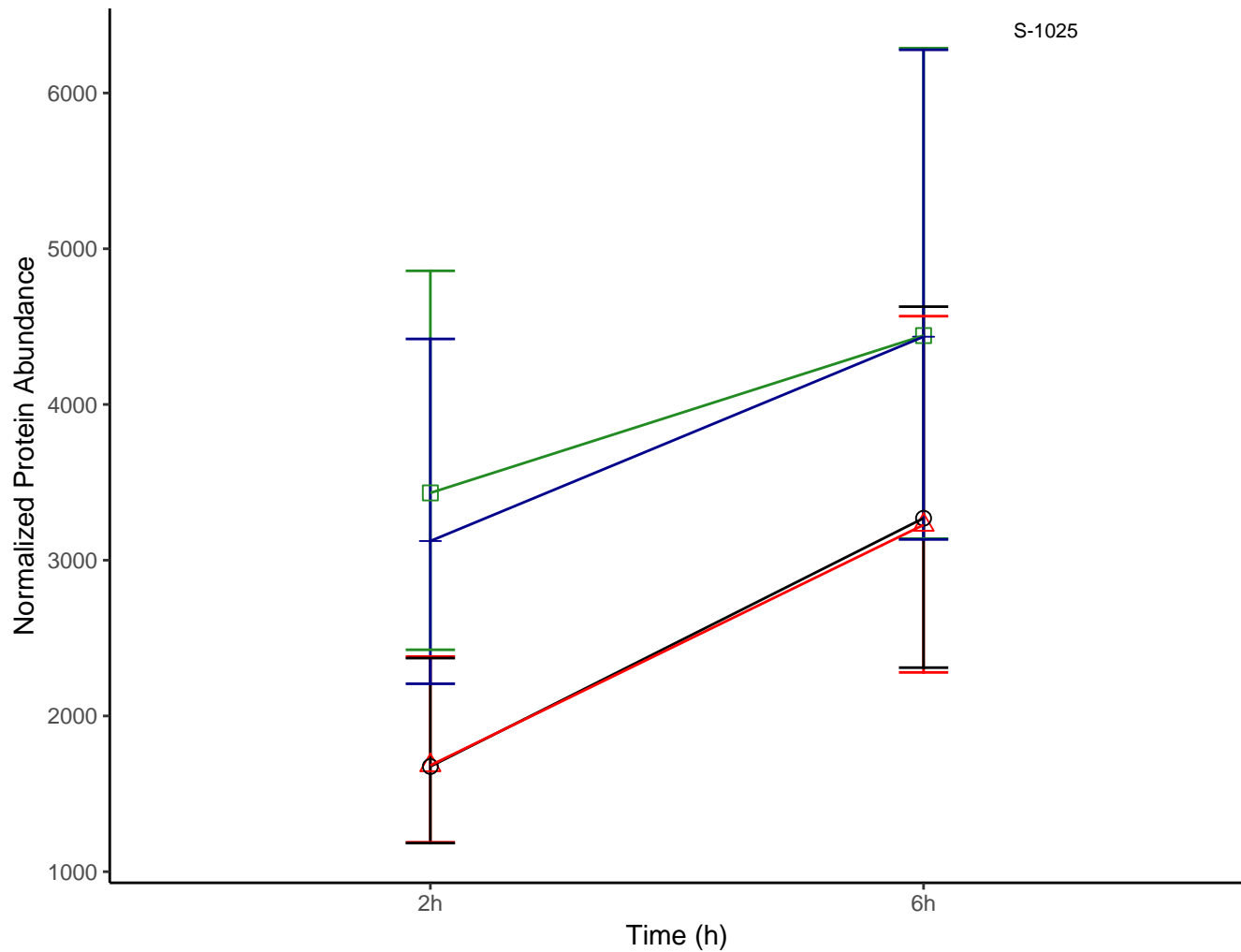


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# ARCA\_STAAM

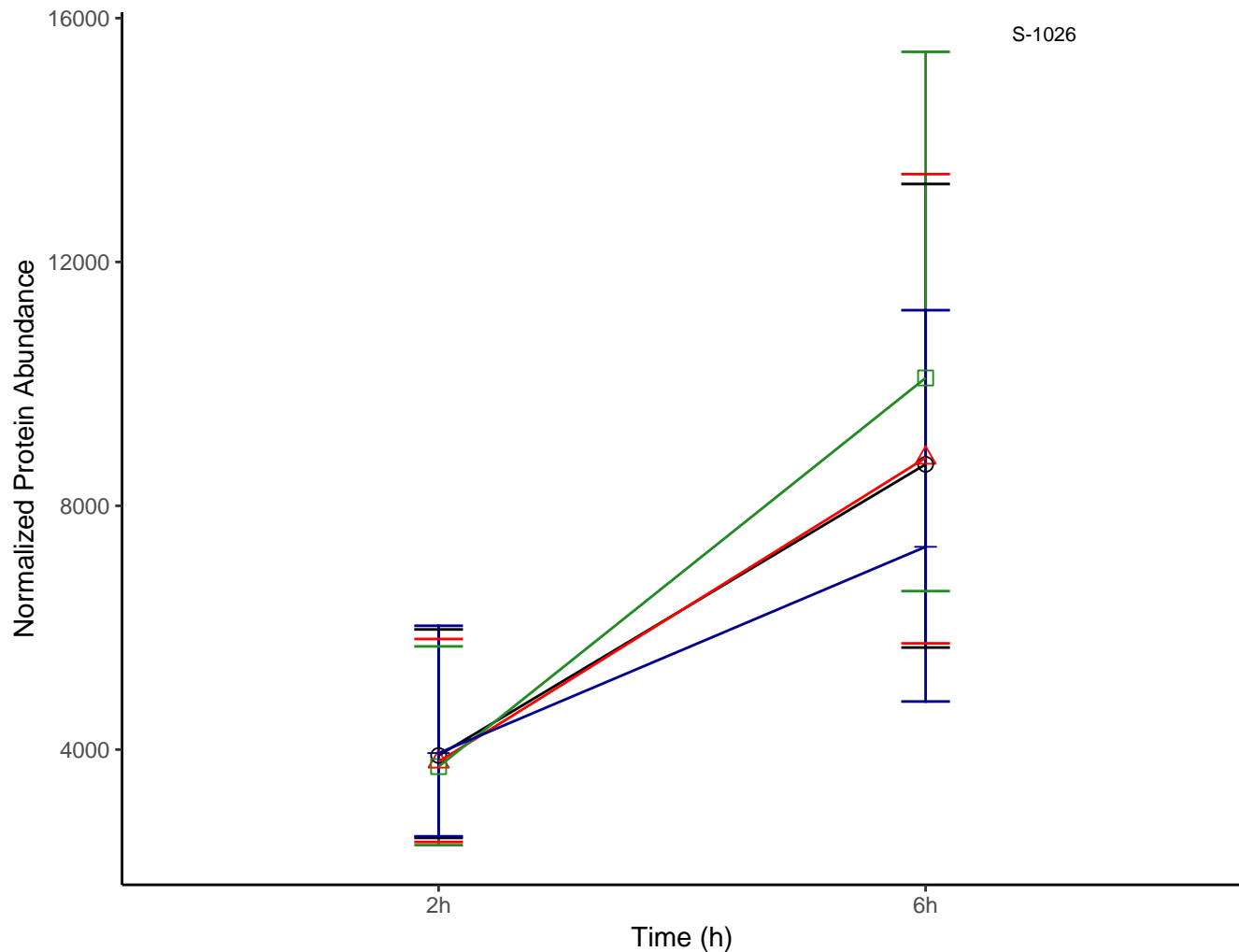
S-1025



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARCC1\_STAAM

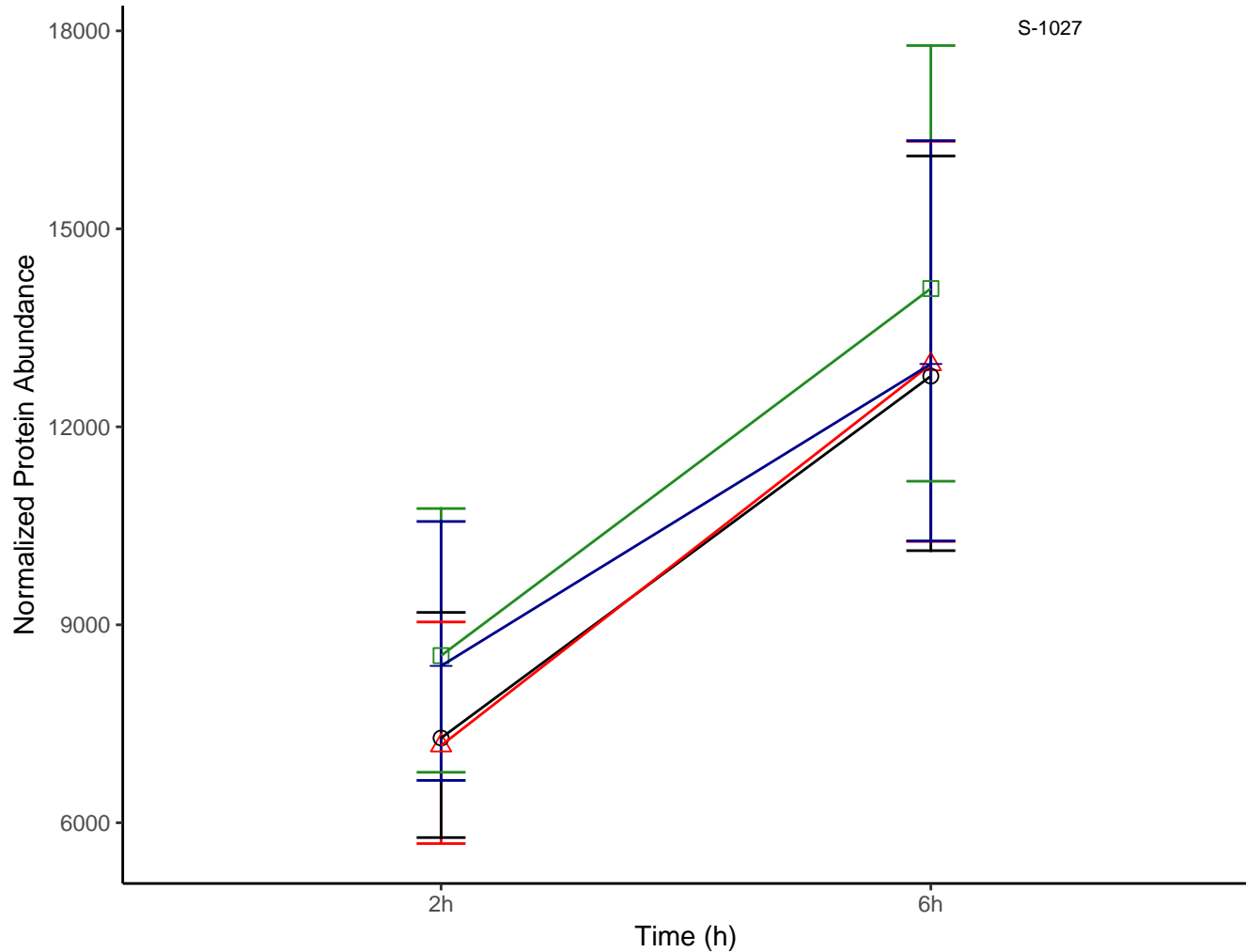
S-1026



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARGI\_STAAM

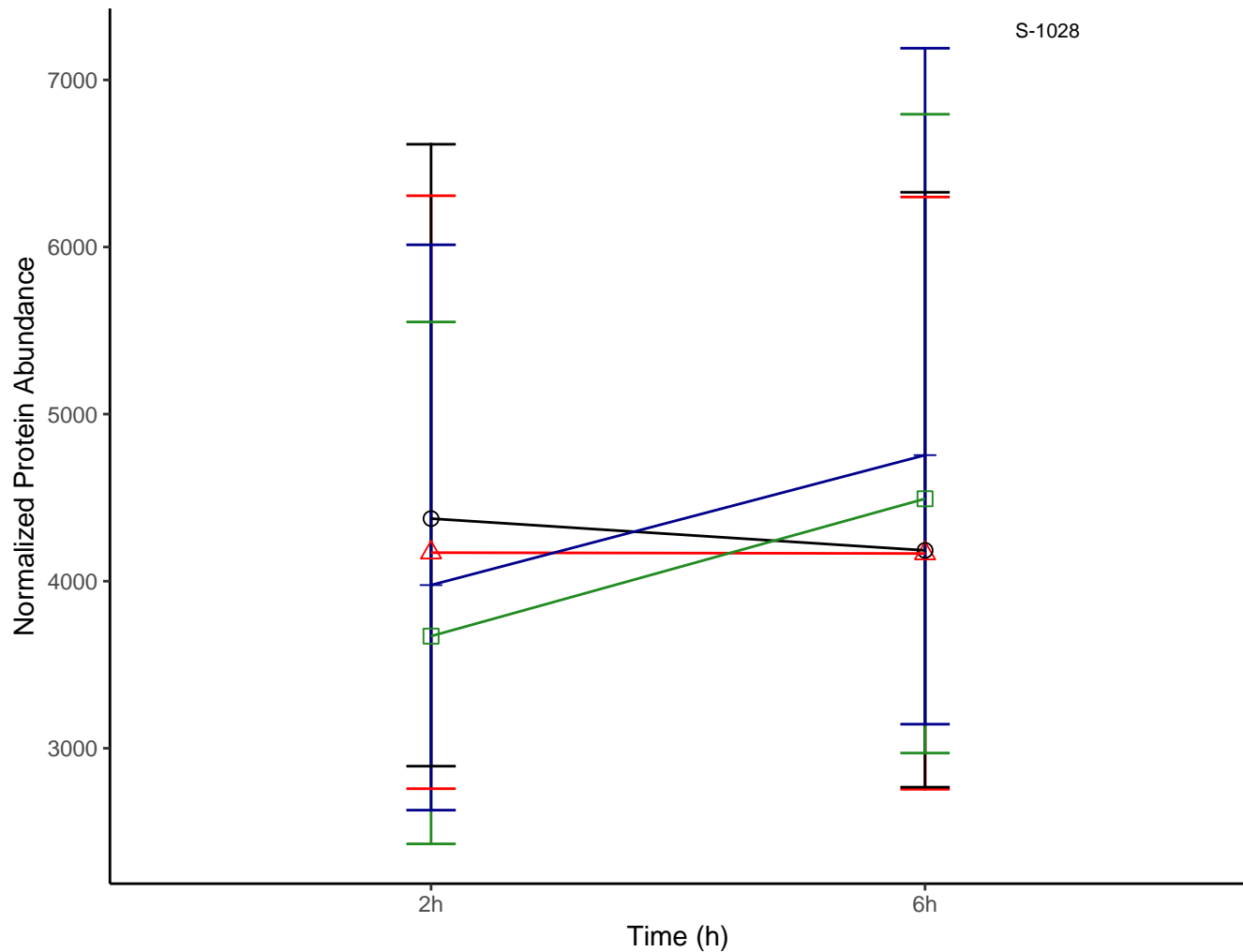
S-1027



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARGR\_STAAM

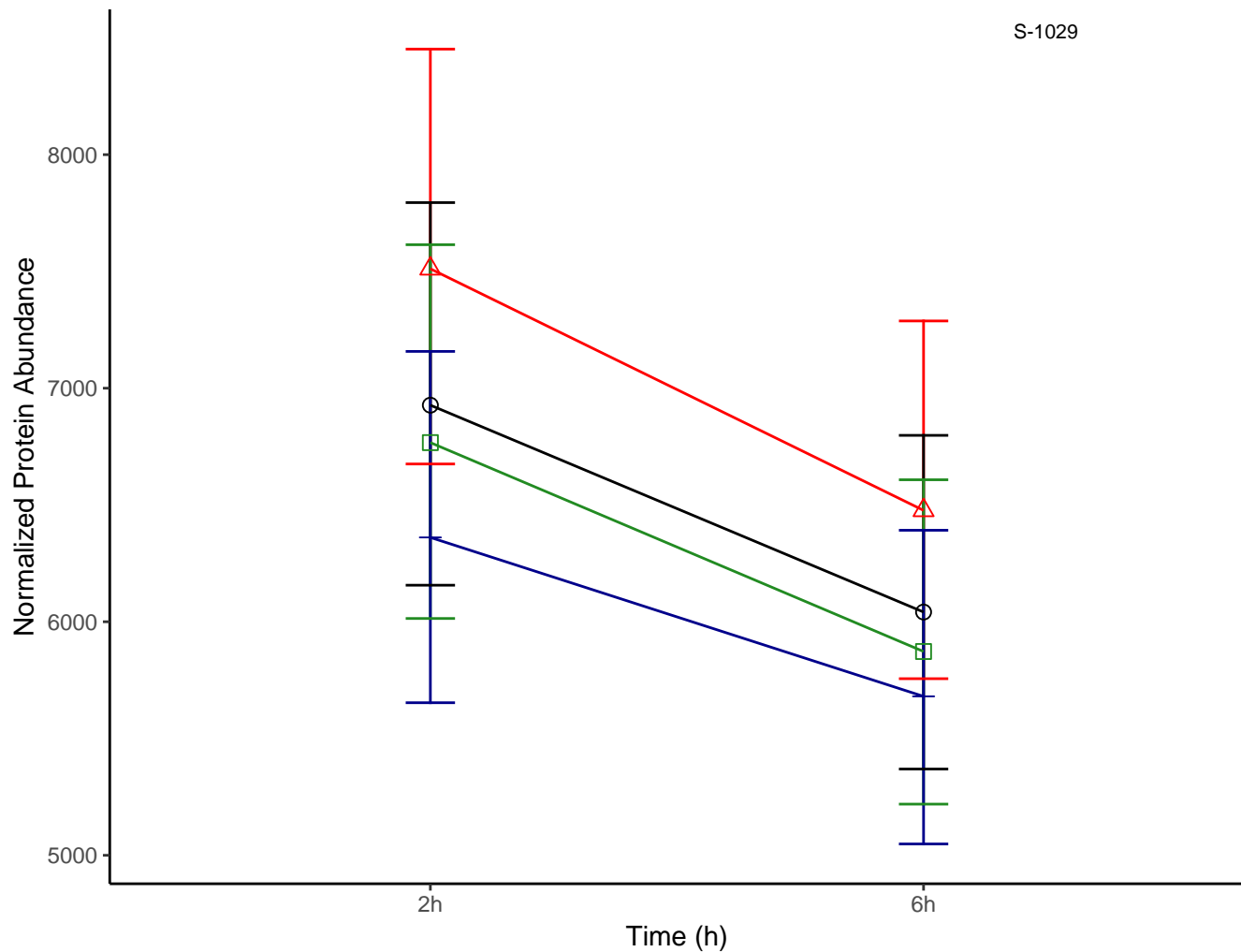
S-1028



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ARLR\_STAAM

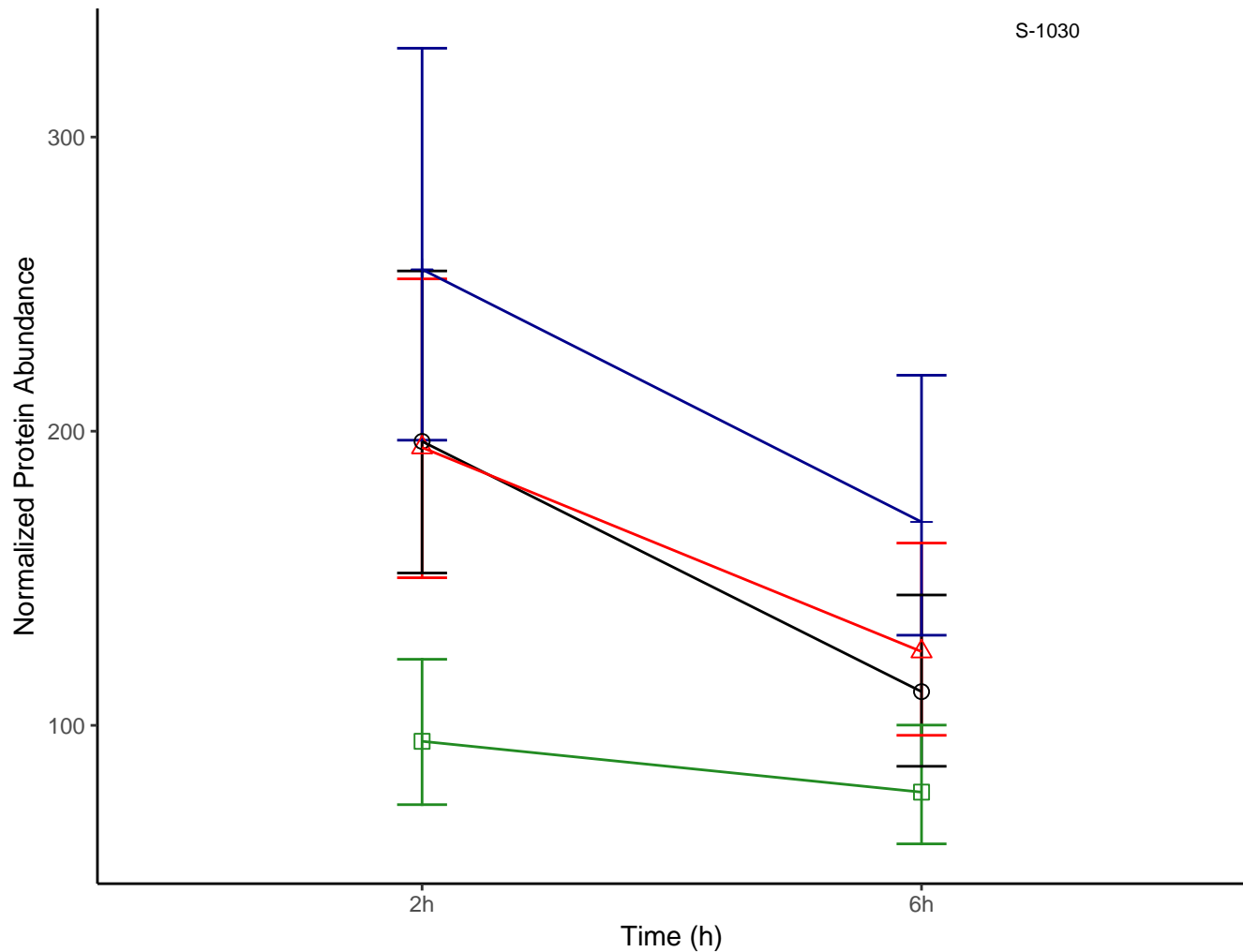
S-1029



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ARLY\_STAAM

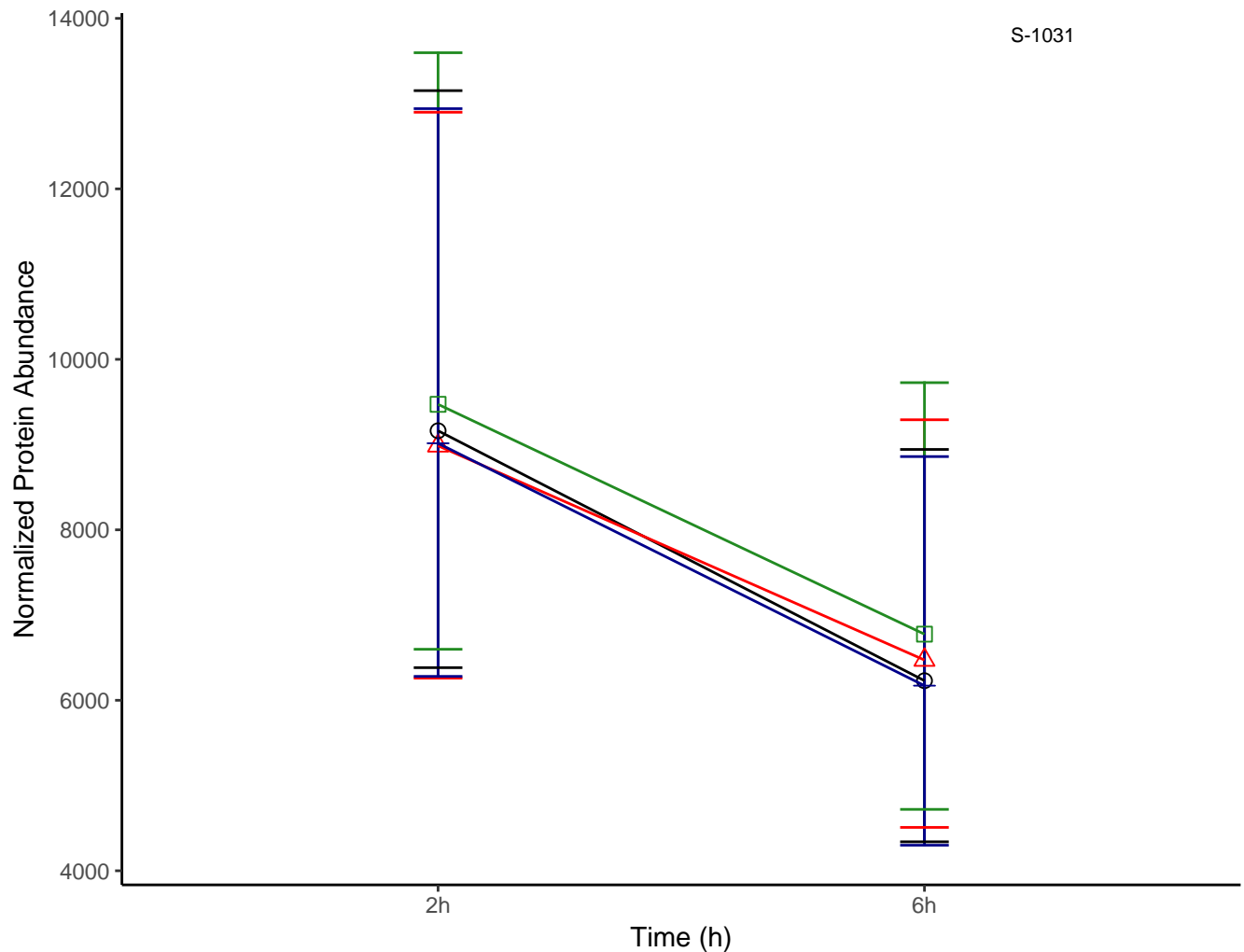
S-1030



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AROA\_STAAM

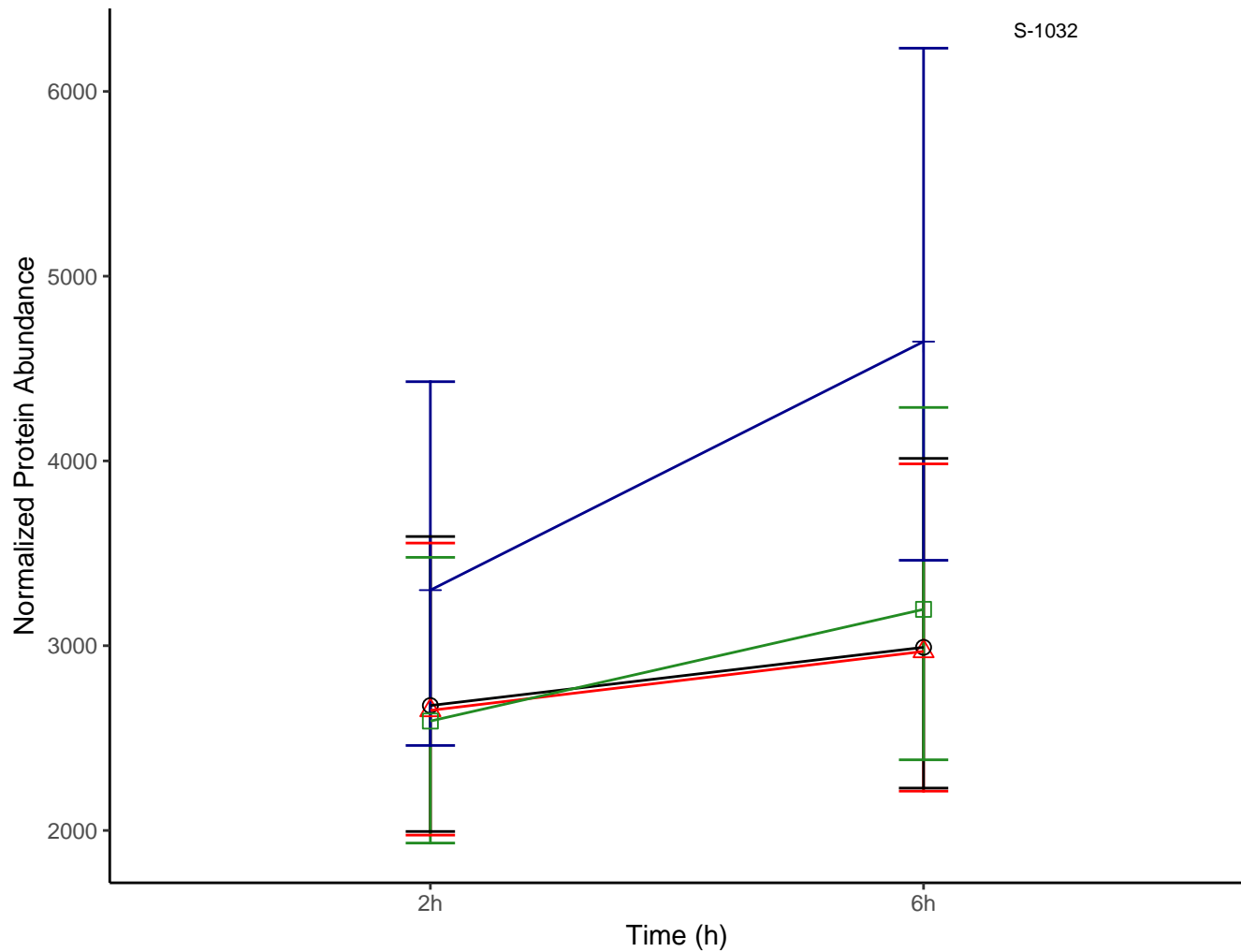
S-1031



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# AROB\_STAAM

S-1032

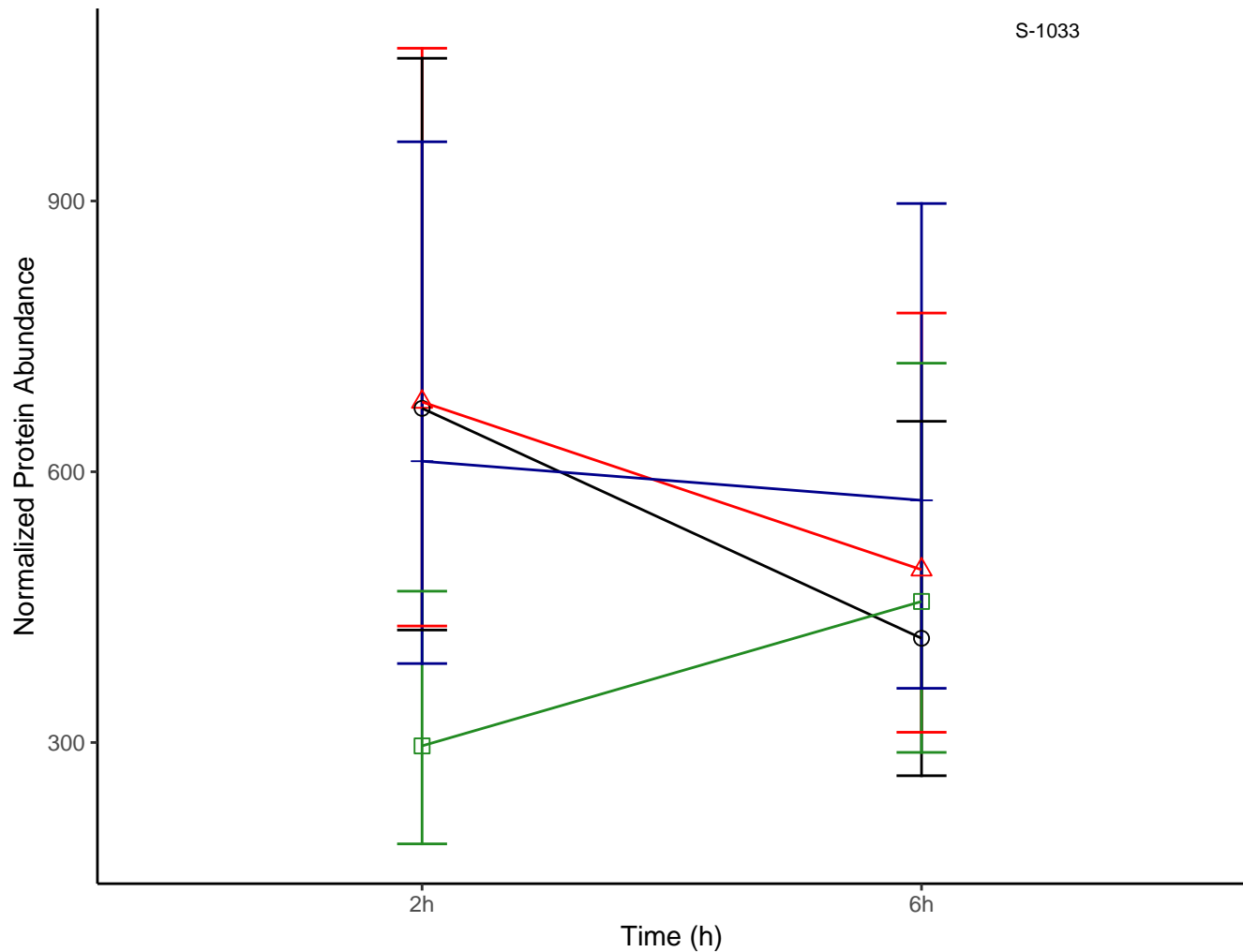


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# AROE\_STAAM

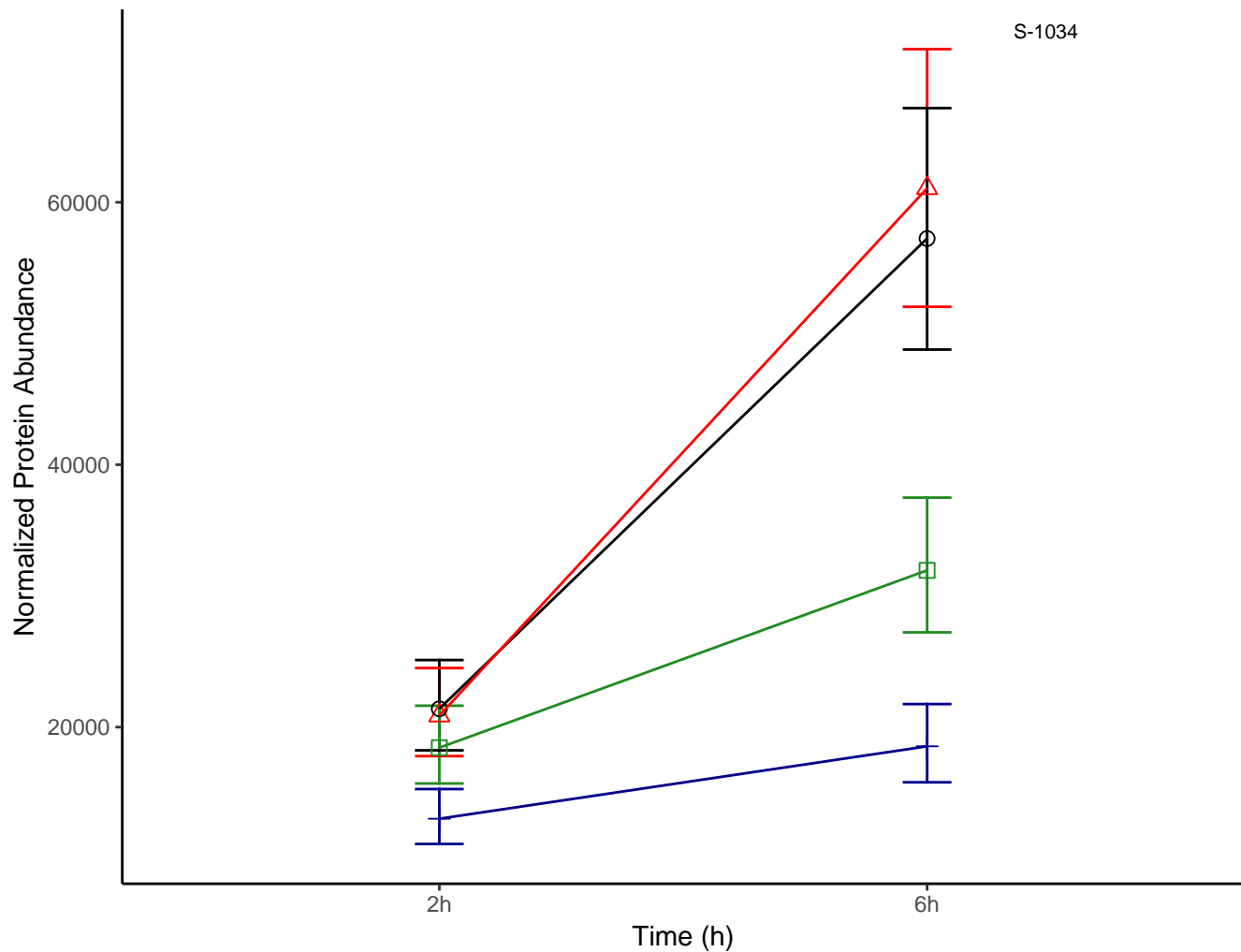
S-1033



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ASP23\_STAAM

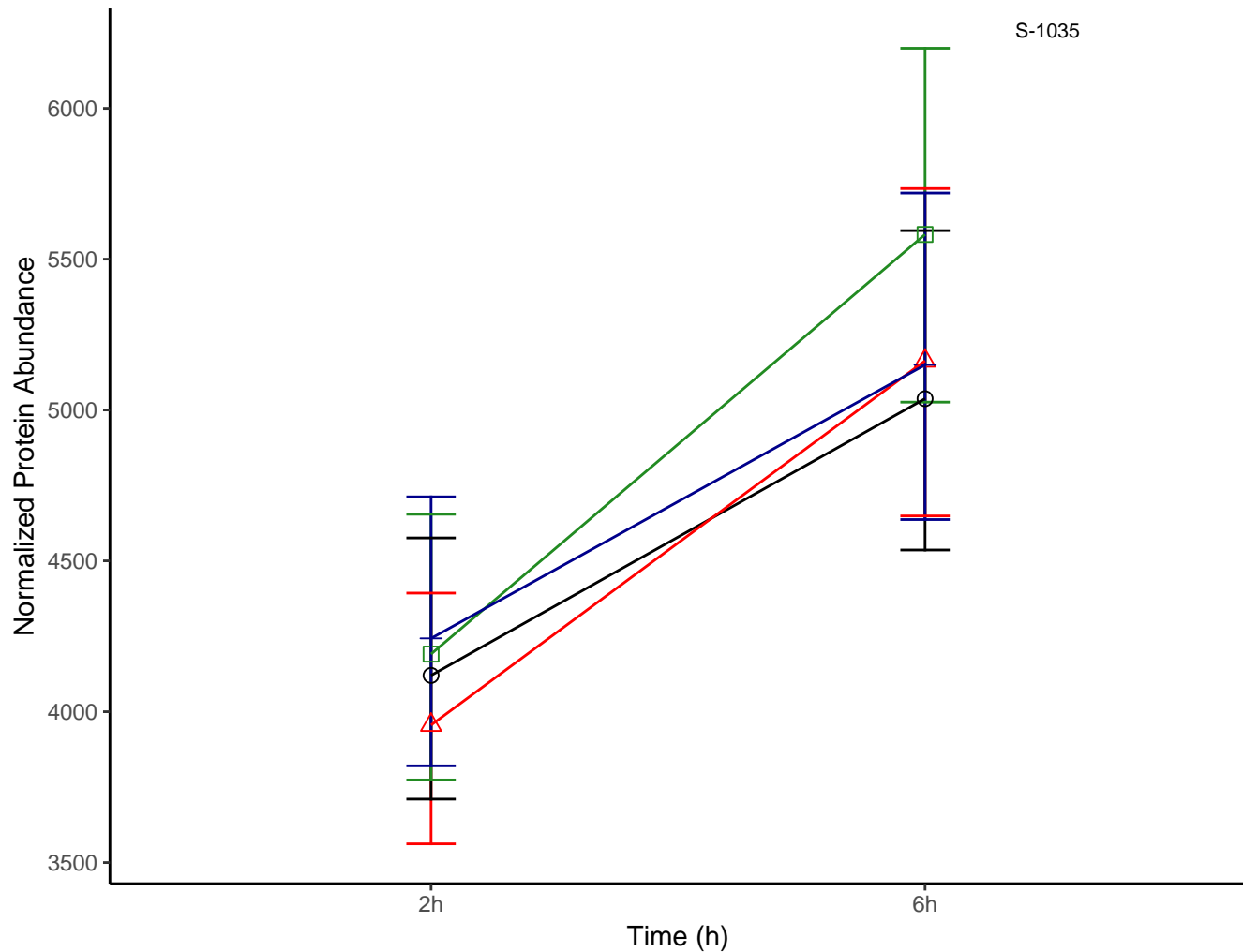
S-1034



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATL\_STAAM

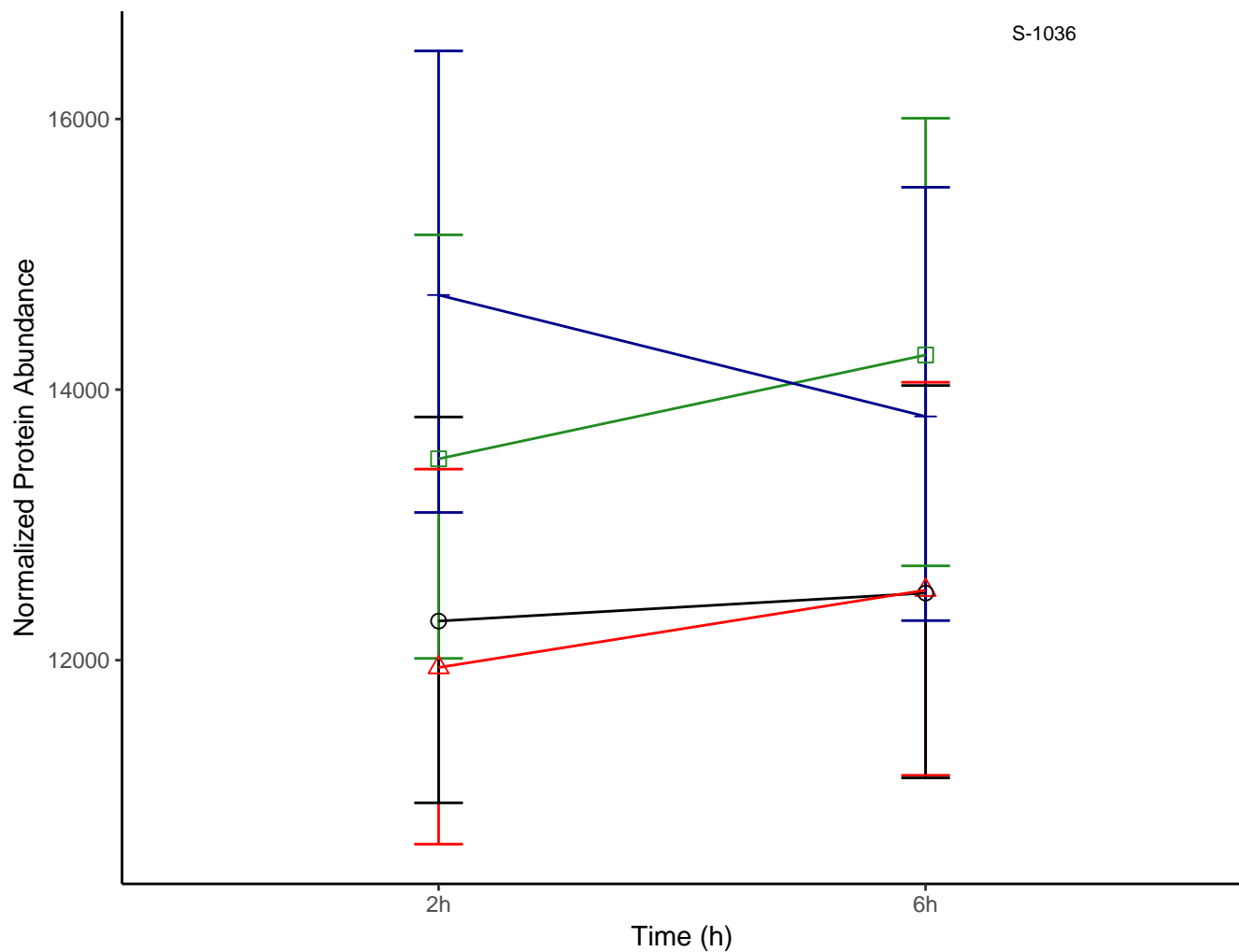
S-1035



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPA\_STAAM

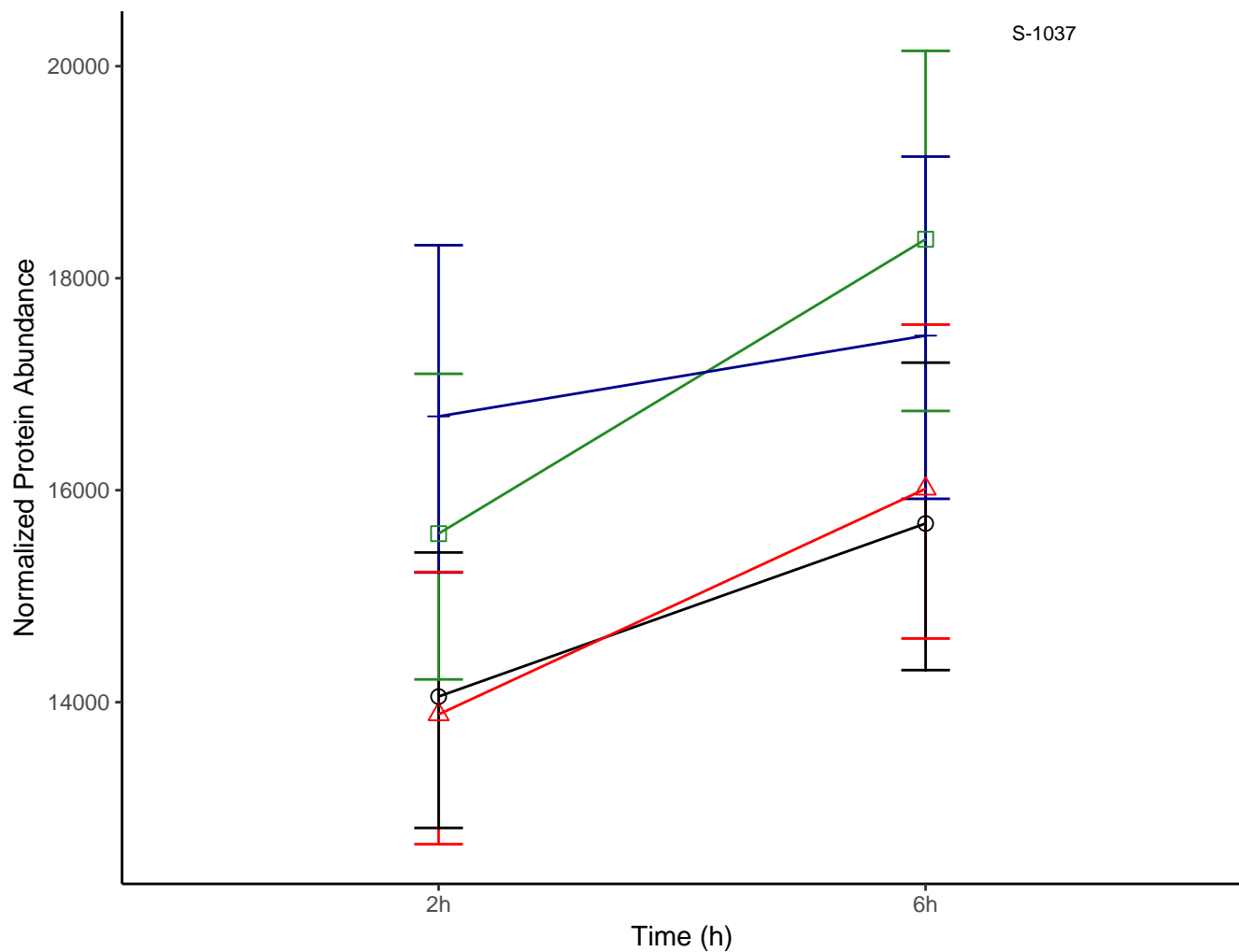
S-1036



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## ATPB\_STAAM

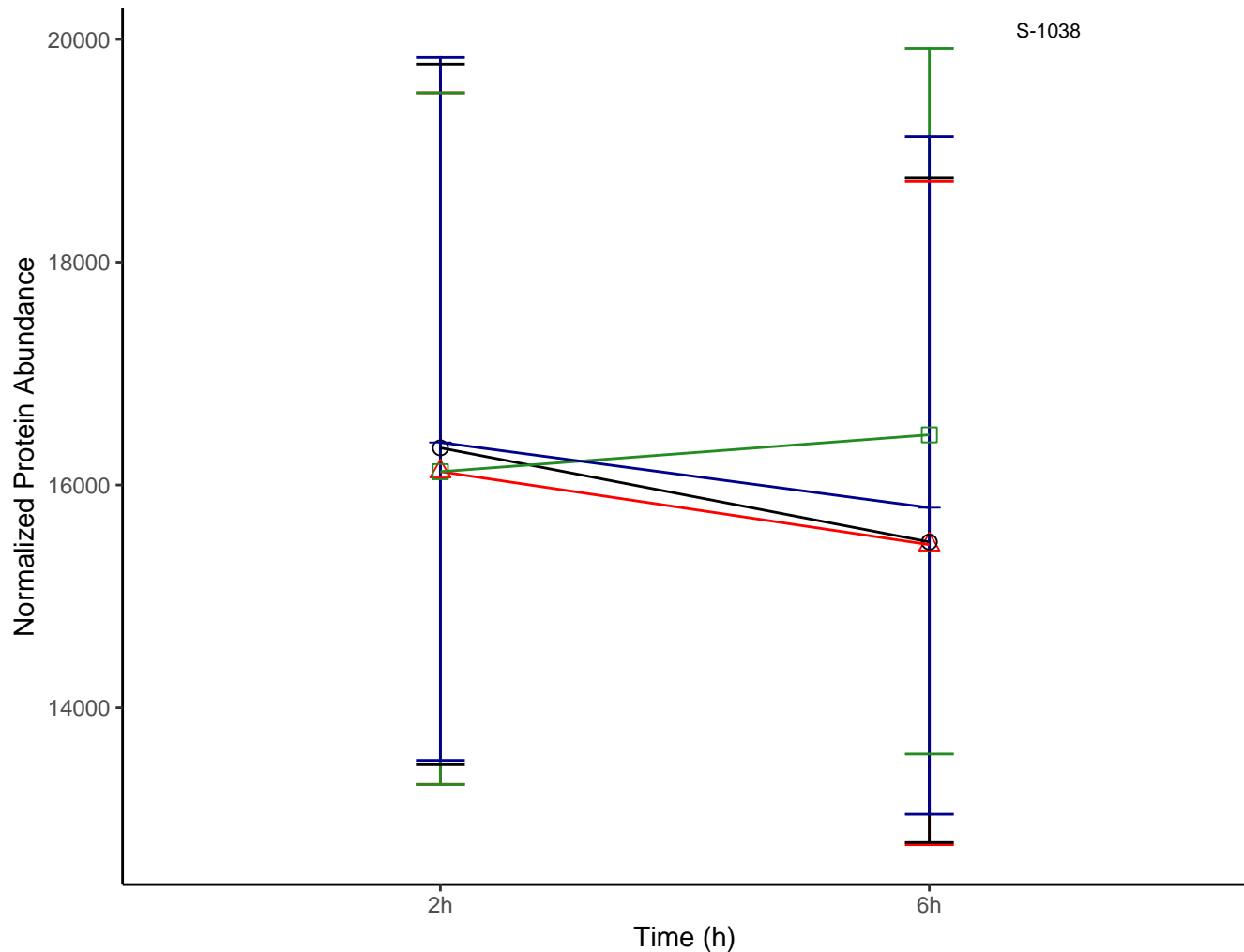
S-1037



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPD\_STAAM

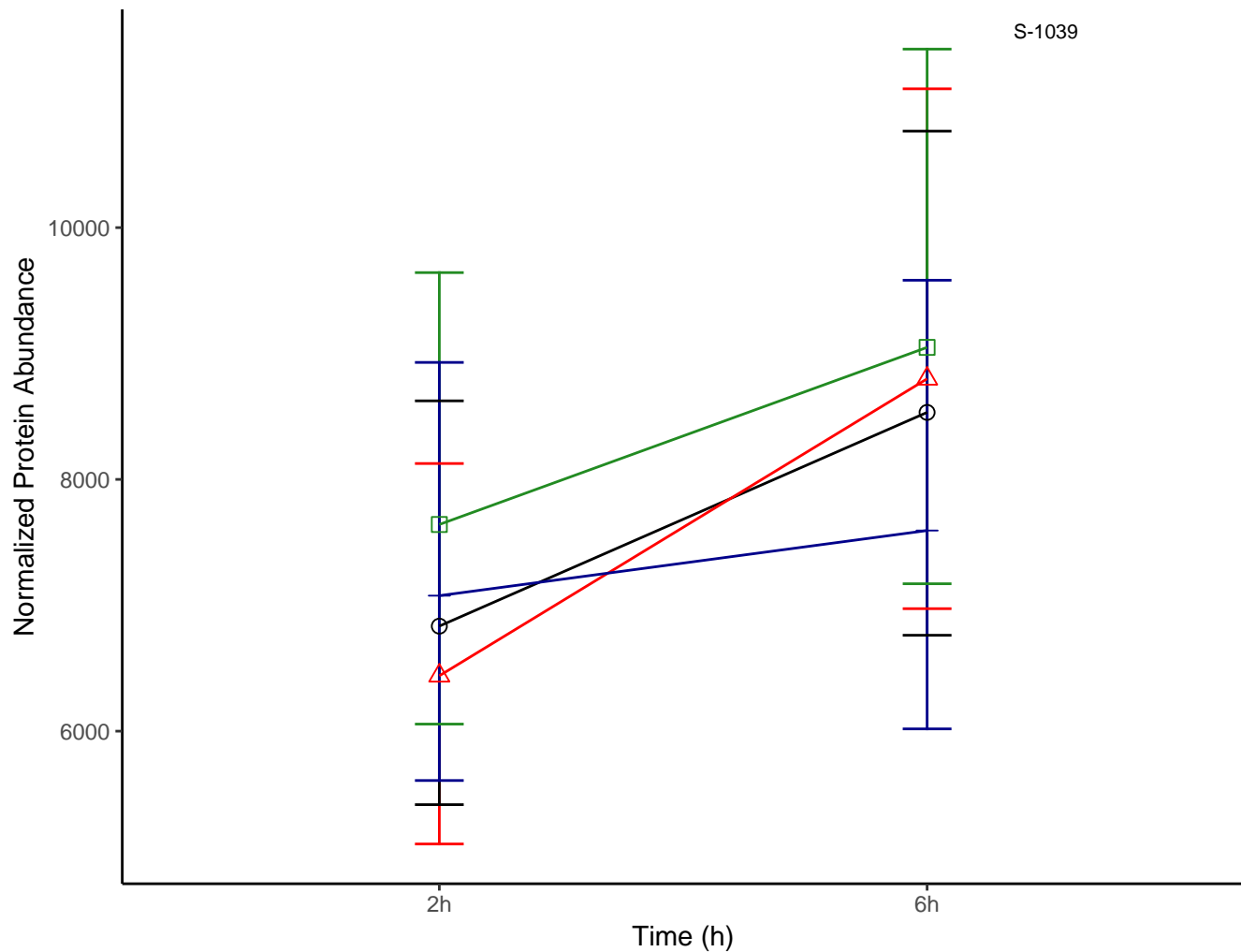
S-1038



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPE\_STAAM

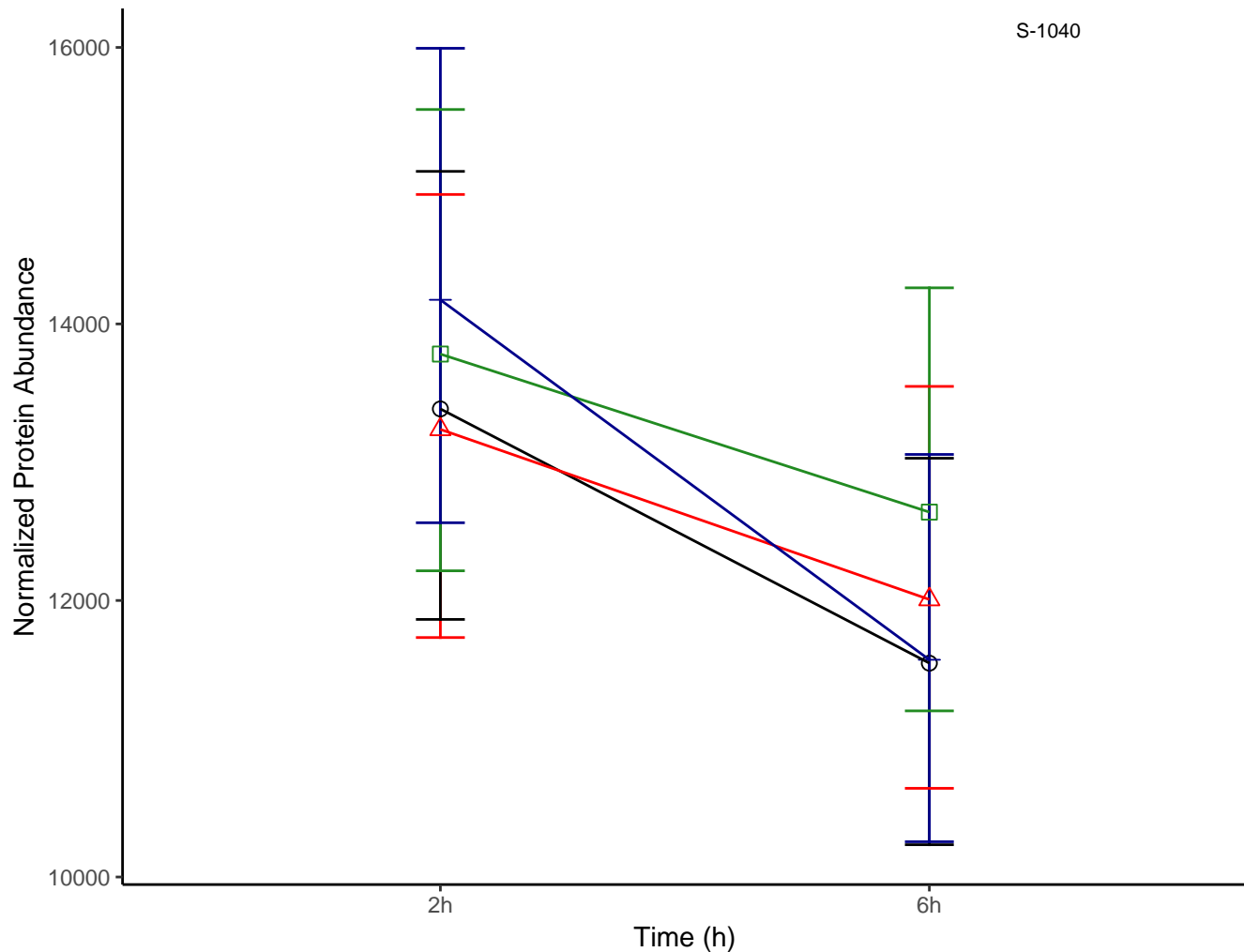
S-1039



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## ATPF\_STAAM

S-1040

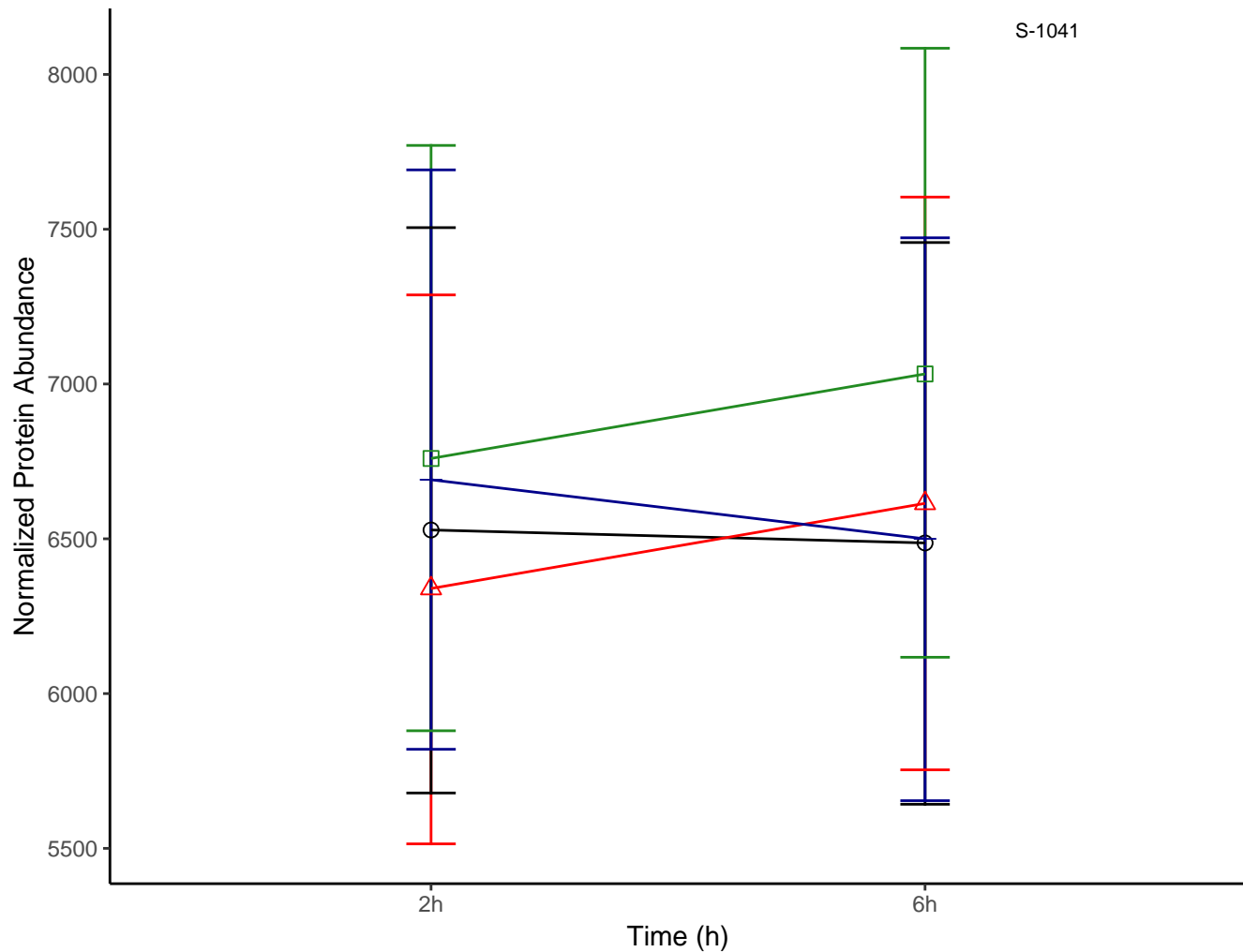


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# ATPG\_STAAM

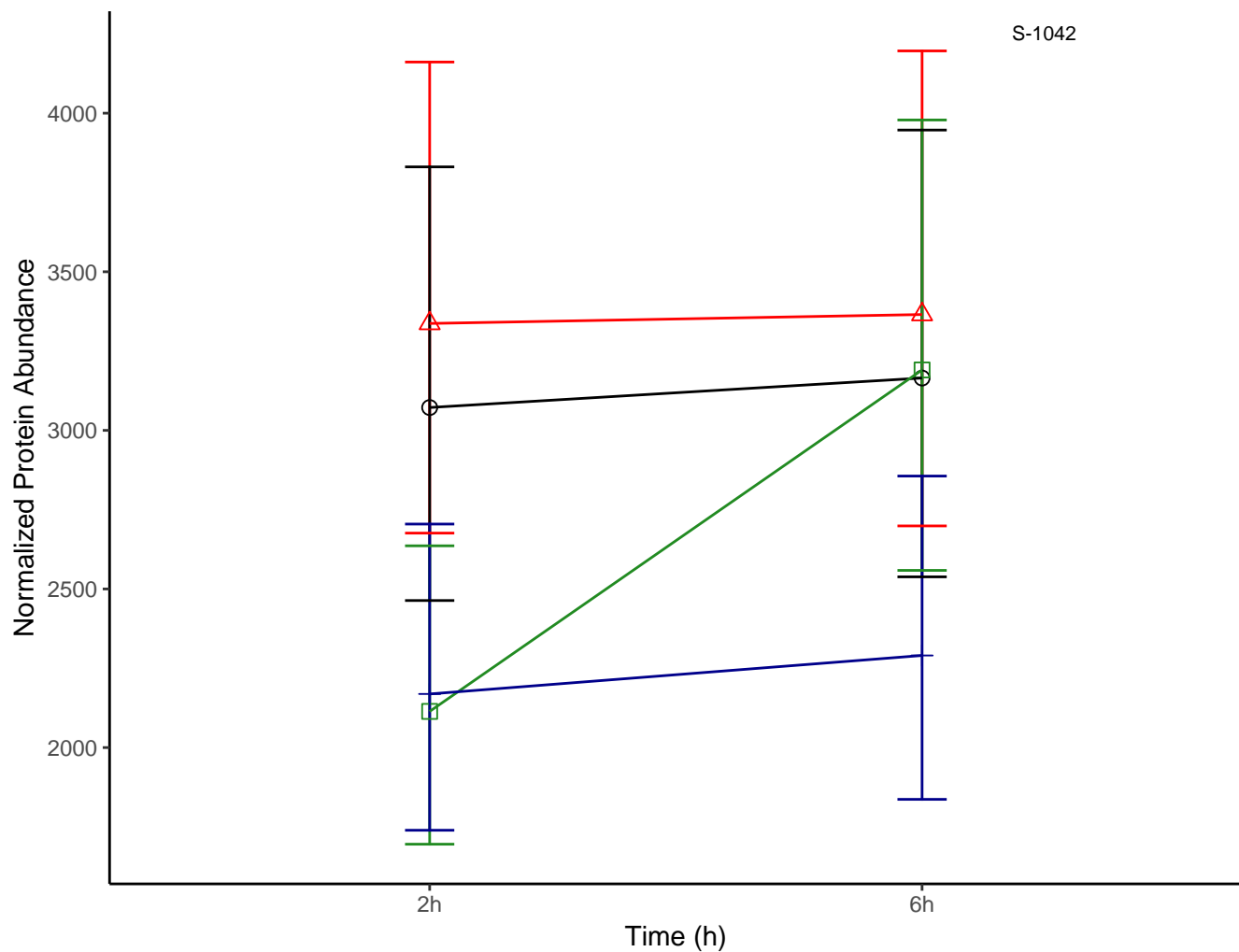
S-1041



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# AZO1\_STAAM

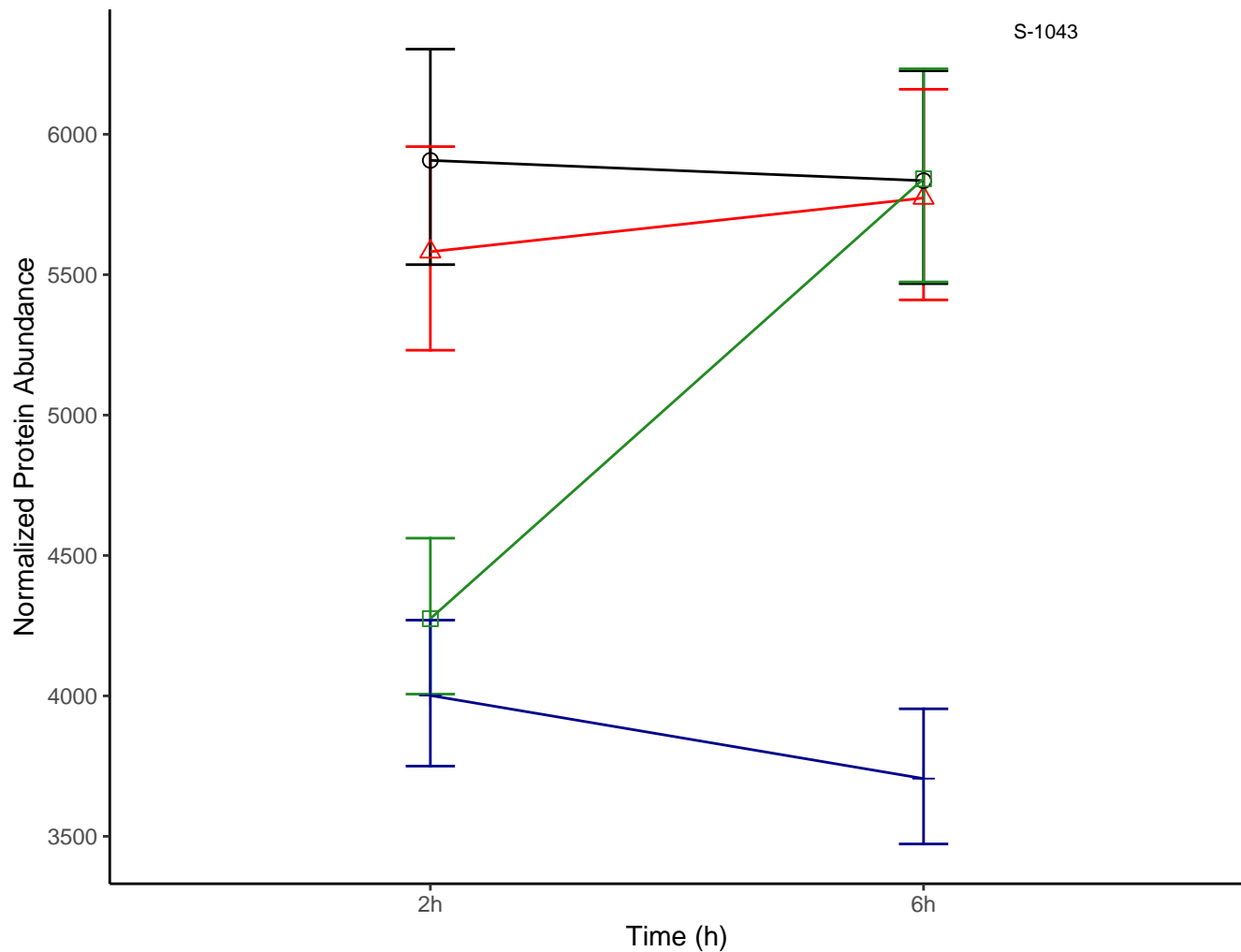
S-1042



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# AZOR\_STAAM

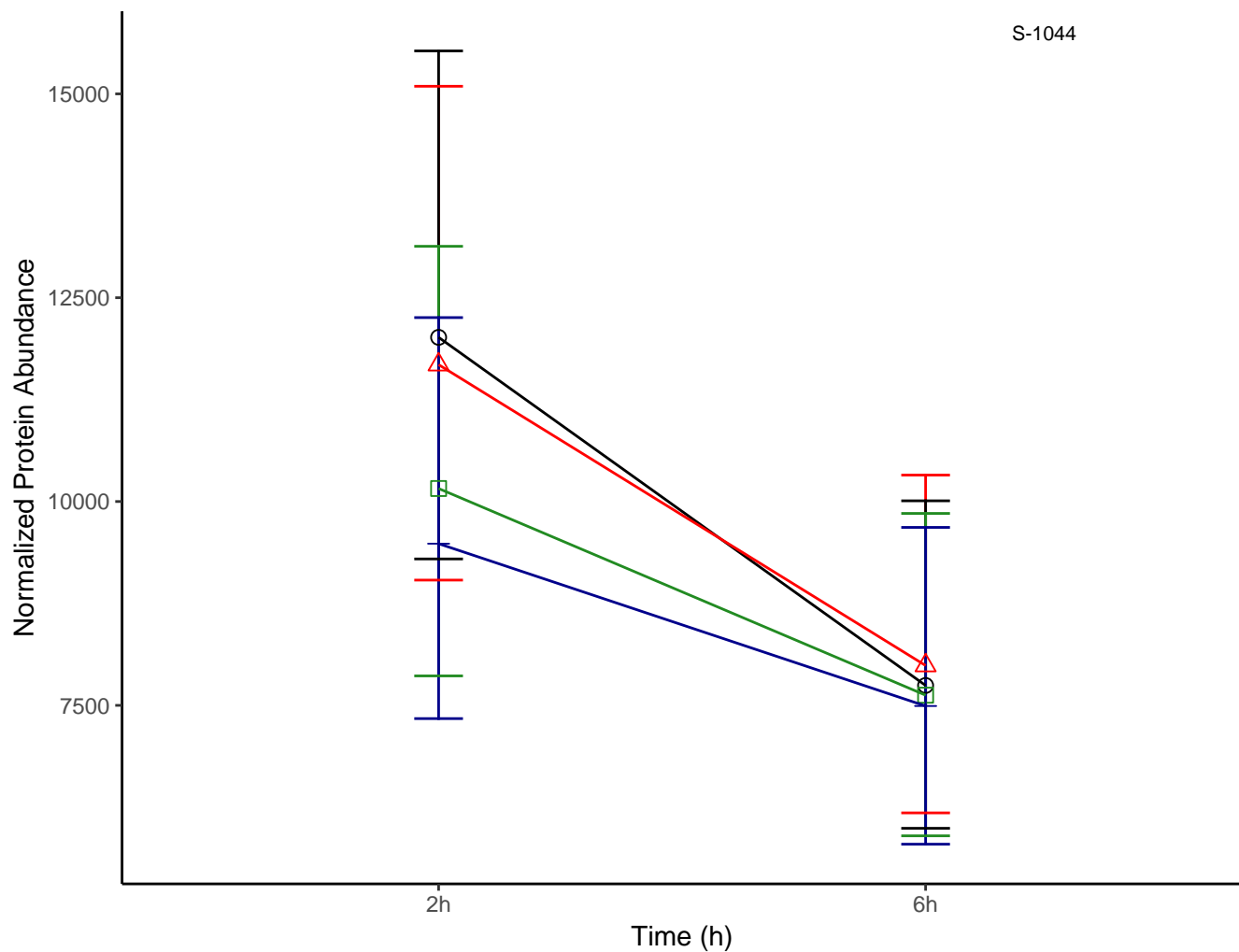
S-1043



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# BSAA\_STAAM

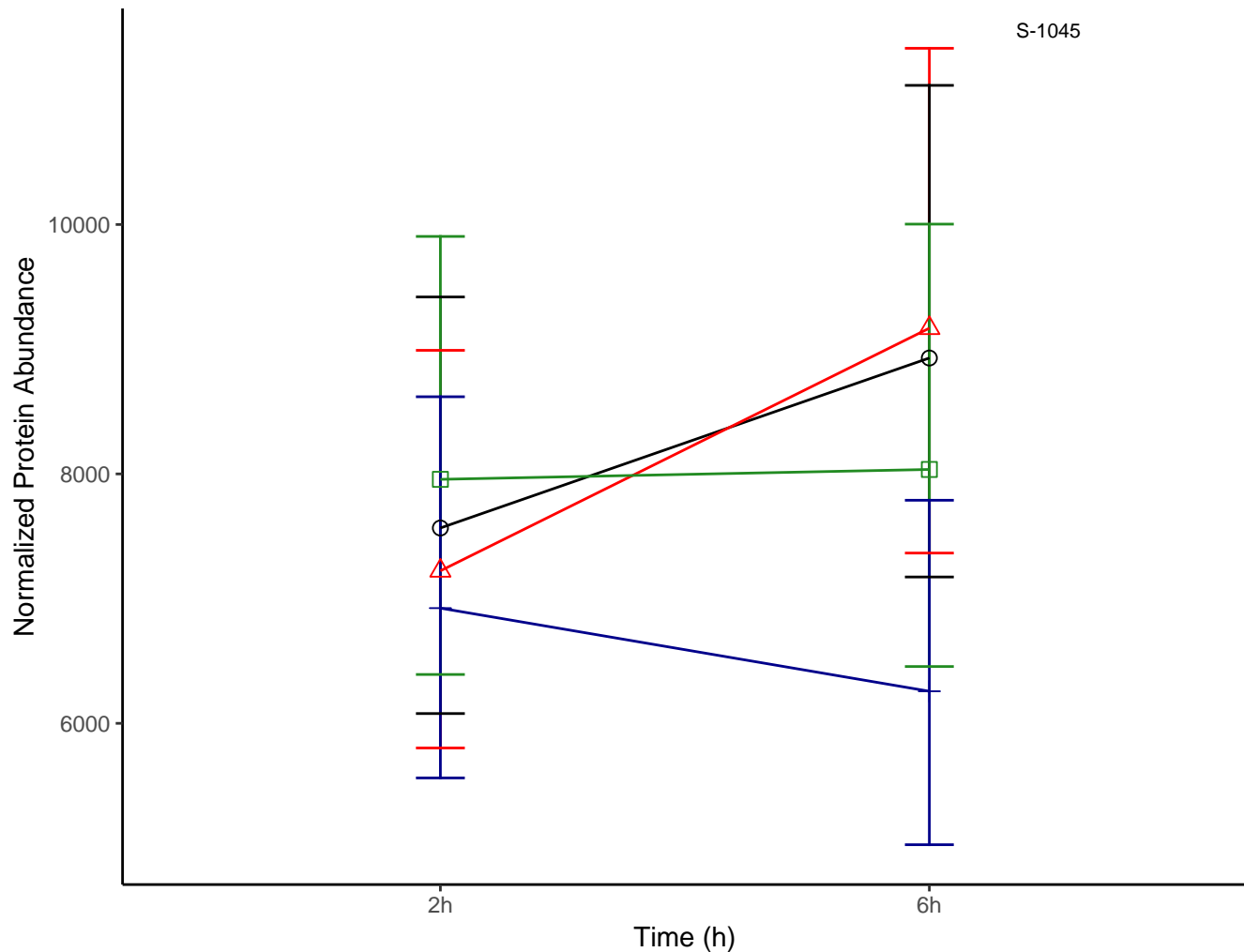
S-1044



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# BUTA\_STAAM

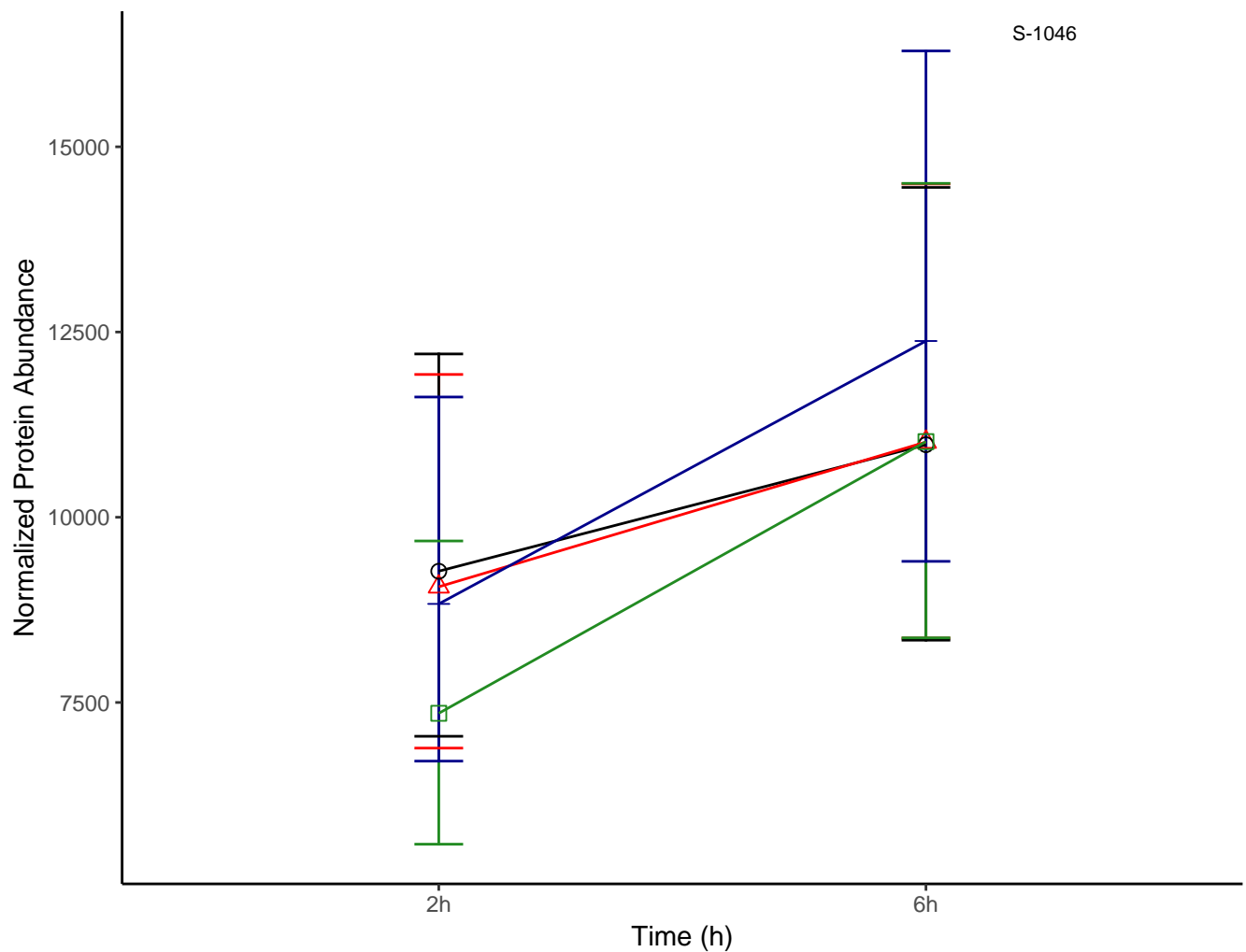
S-1045



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CARA\_STAAM

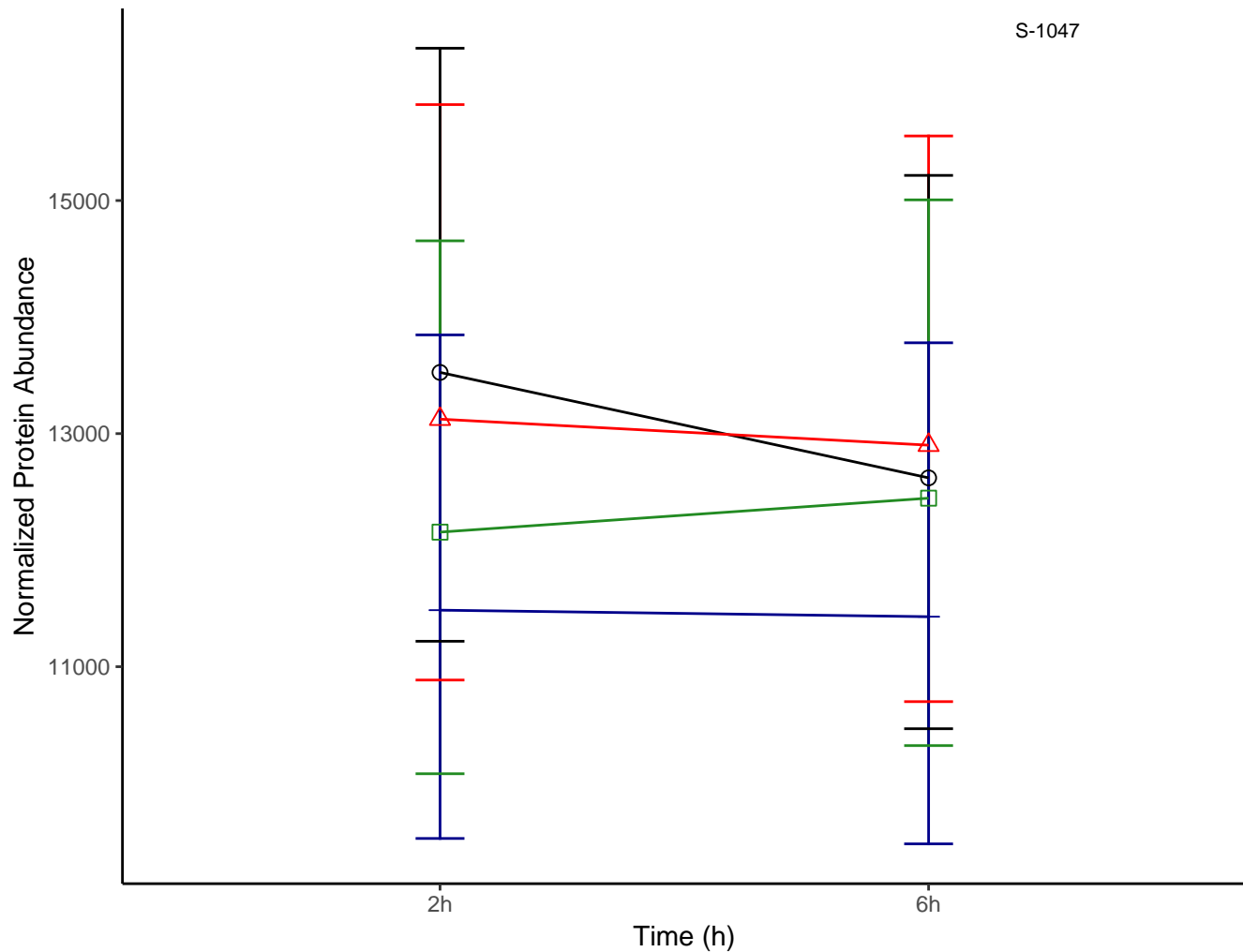
S-1046



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CARB\_STAAM

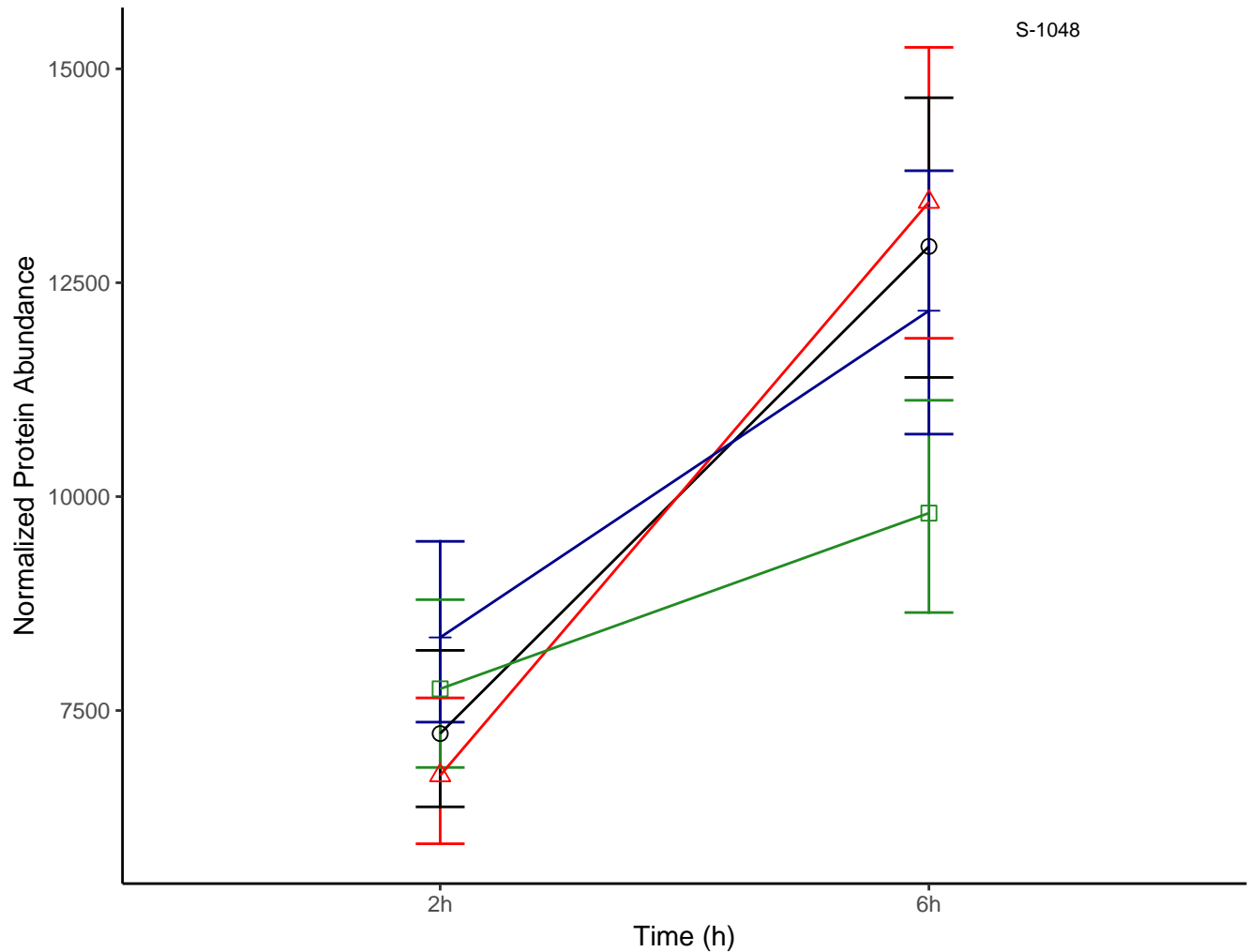
S-1047



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CATA\_STAAM

S-1048

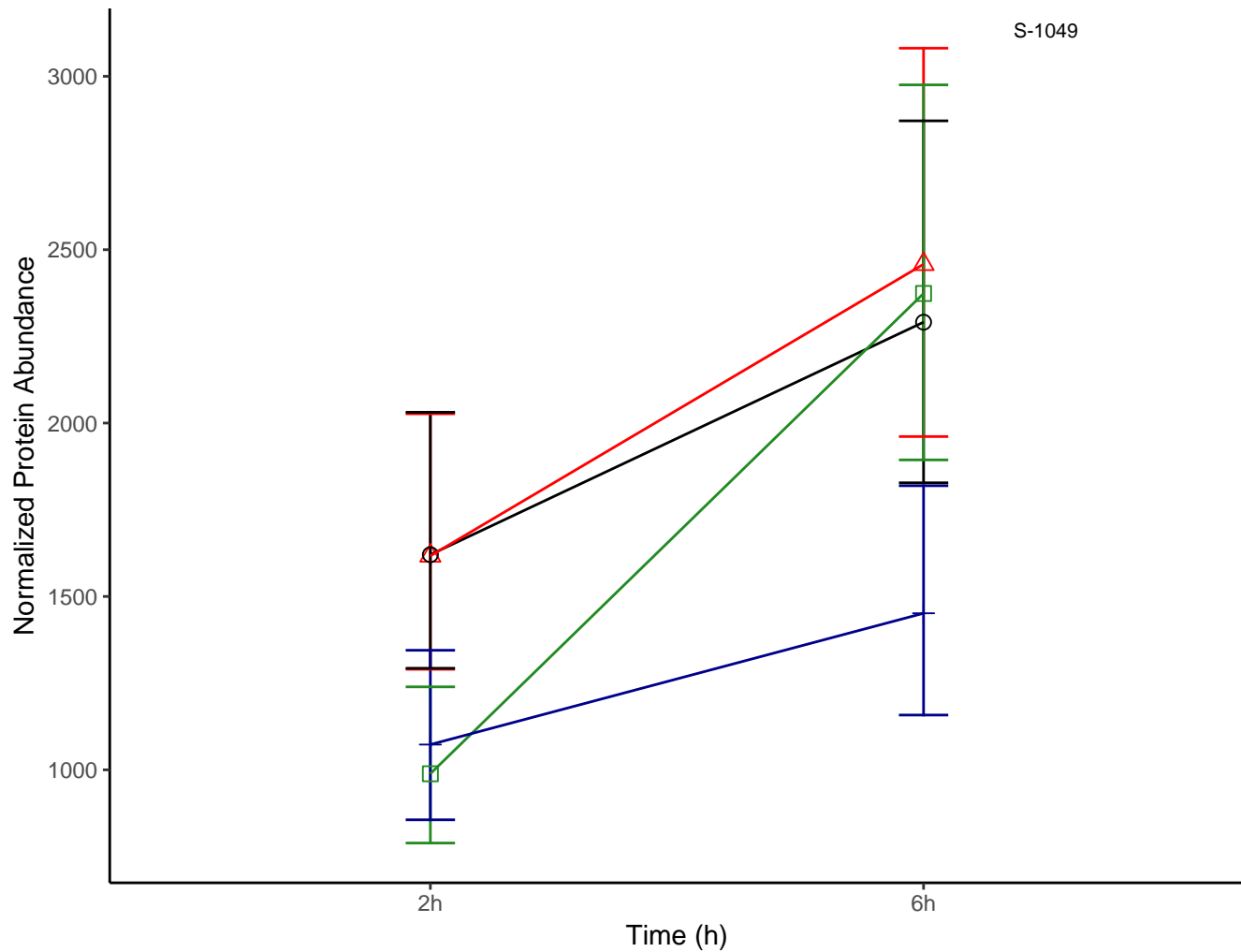


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# CCPA\_STAAM

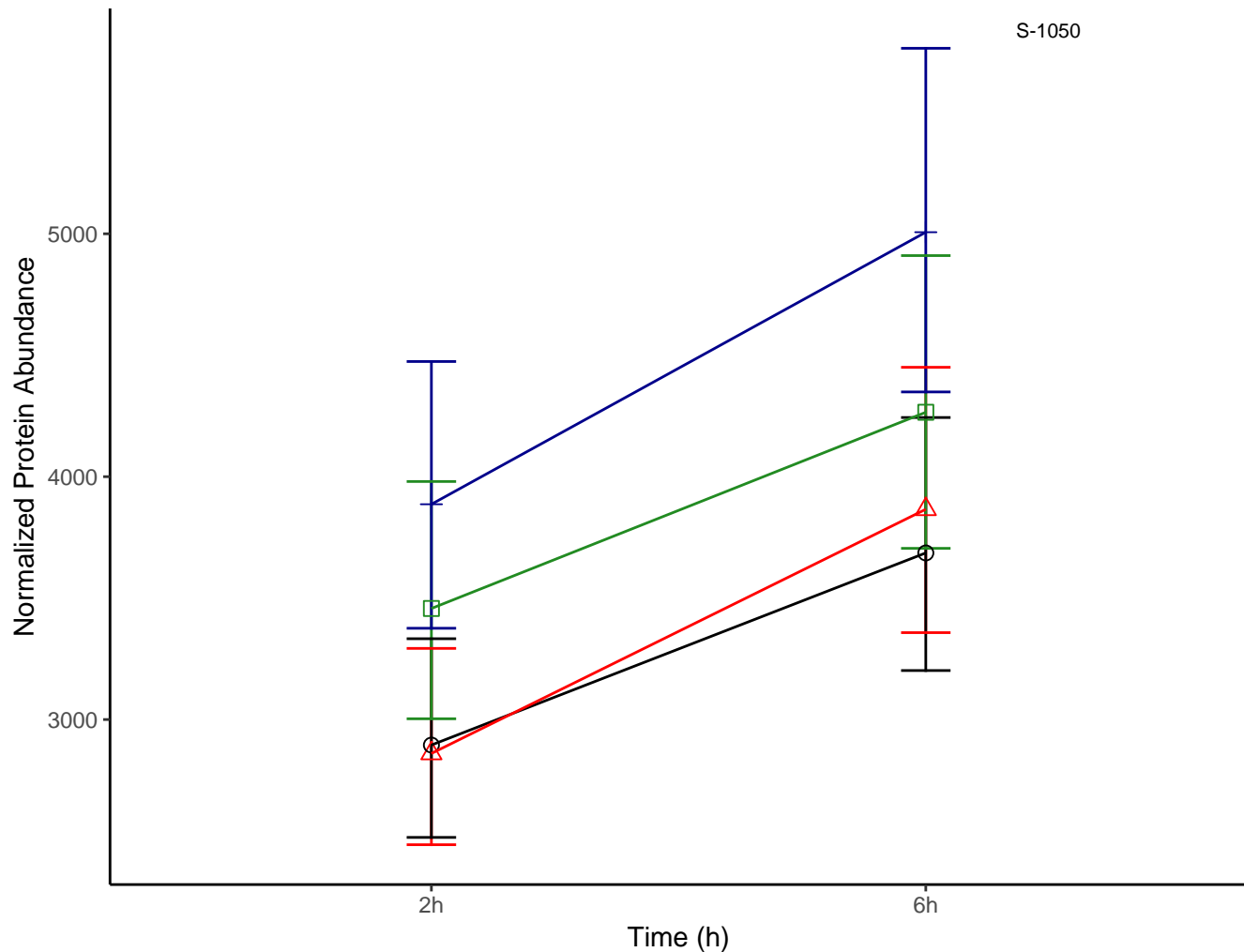
S-1049



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CDR\_STAAM

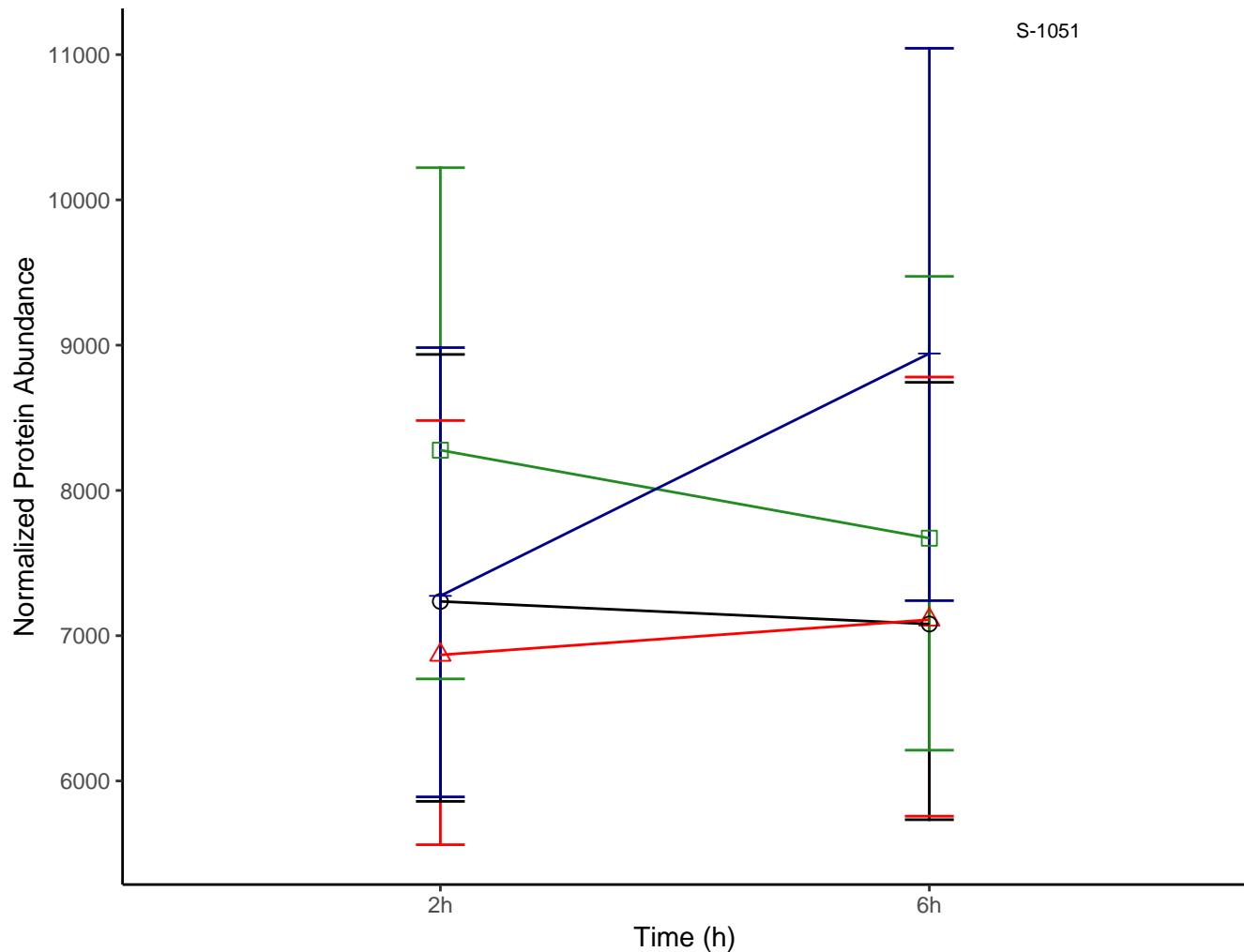
S-1050



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CH10\_STAAM

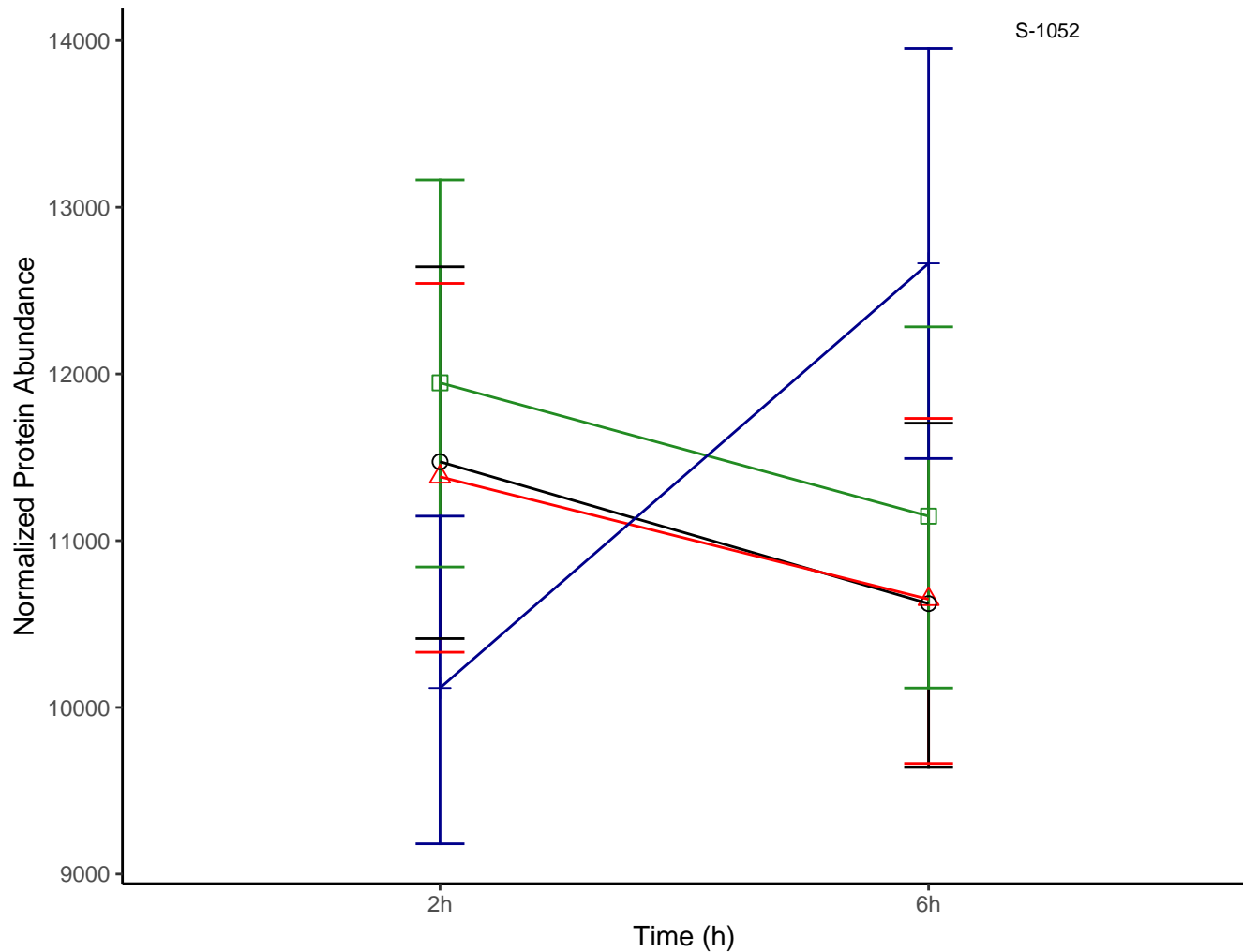
S-1051



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CH60\_STAAM

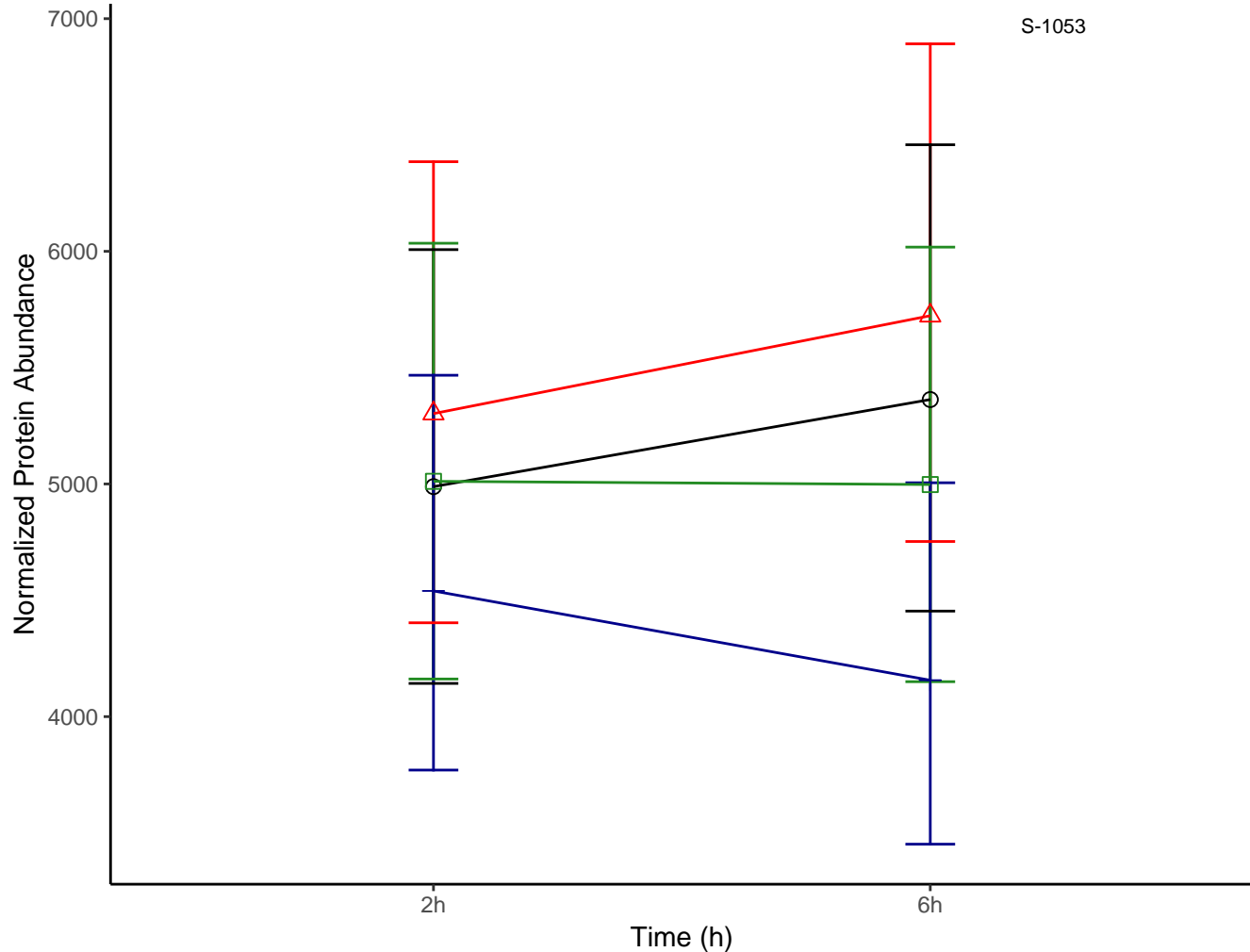
S-1052



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CLPB\_STAAM

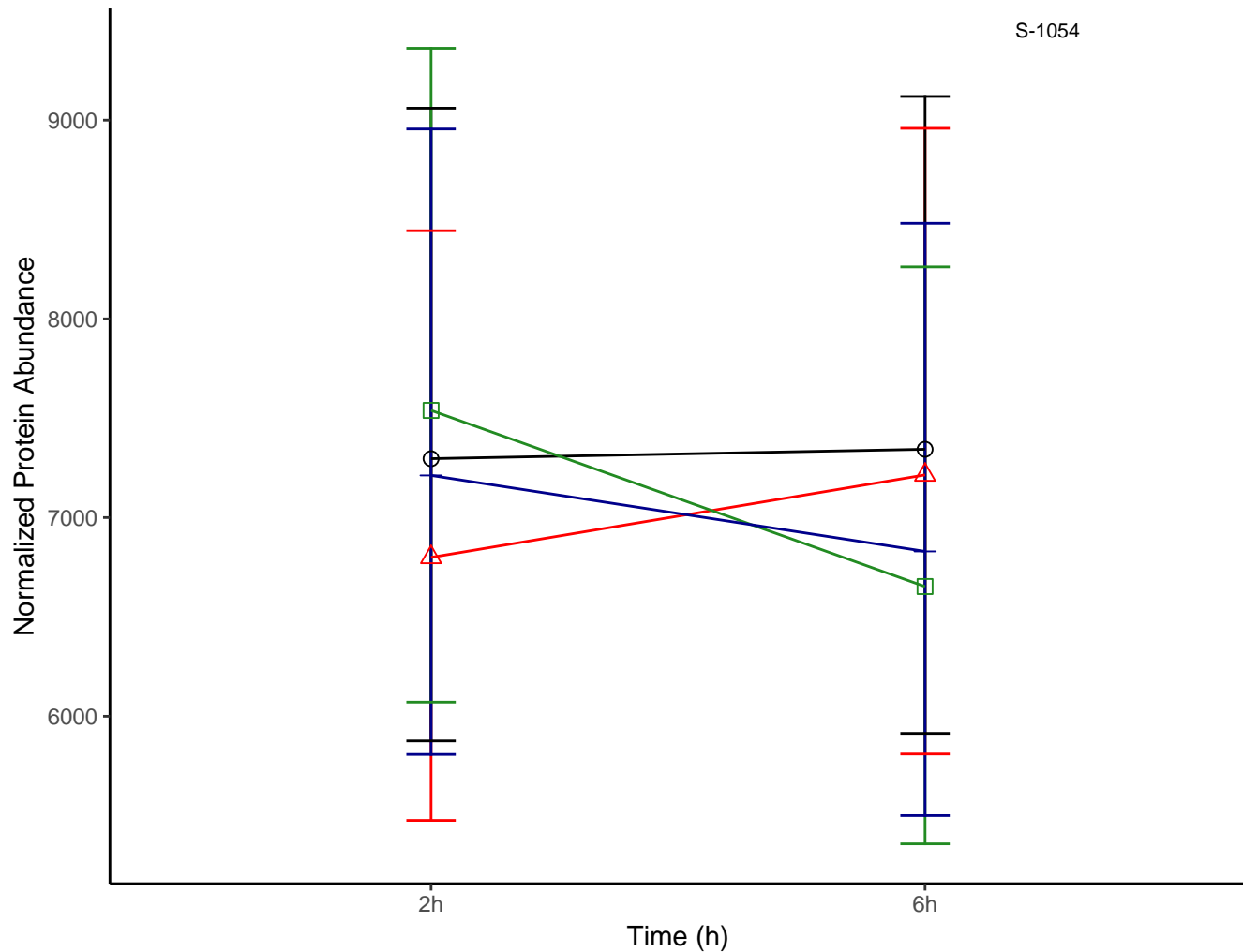
S-1053



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CLPC\_STAAM

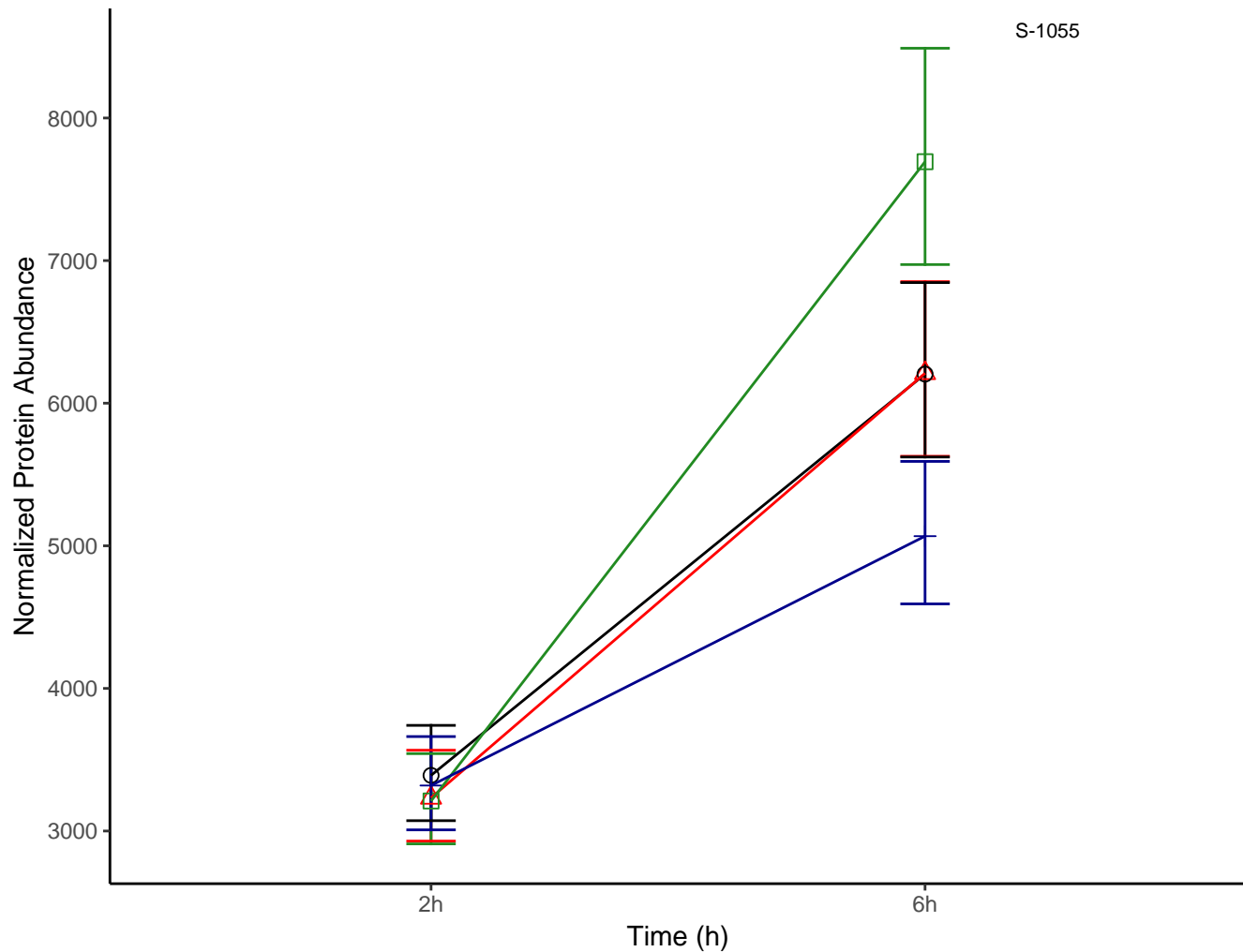
S-1054



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CLPL\_STAAM

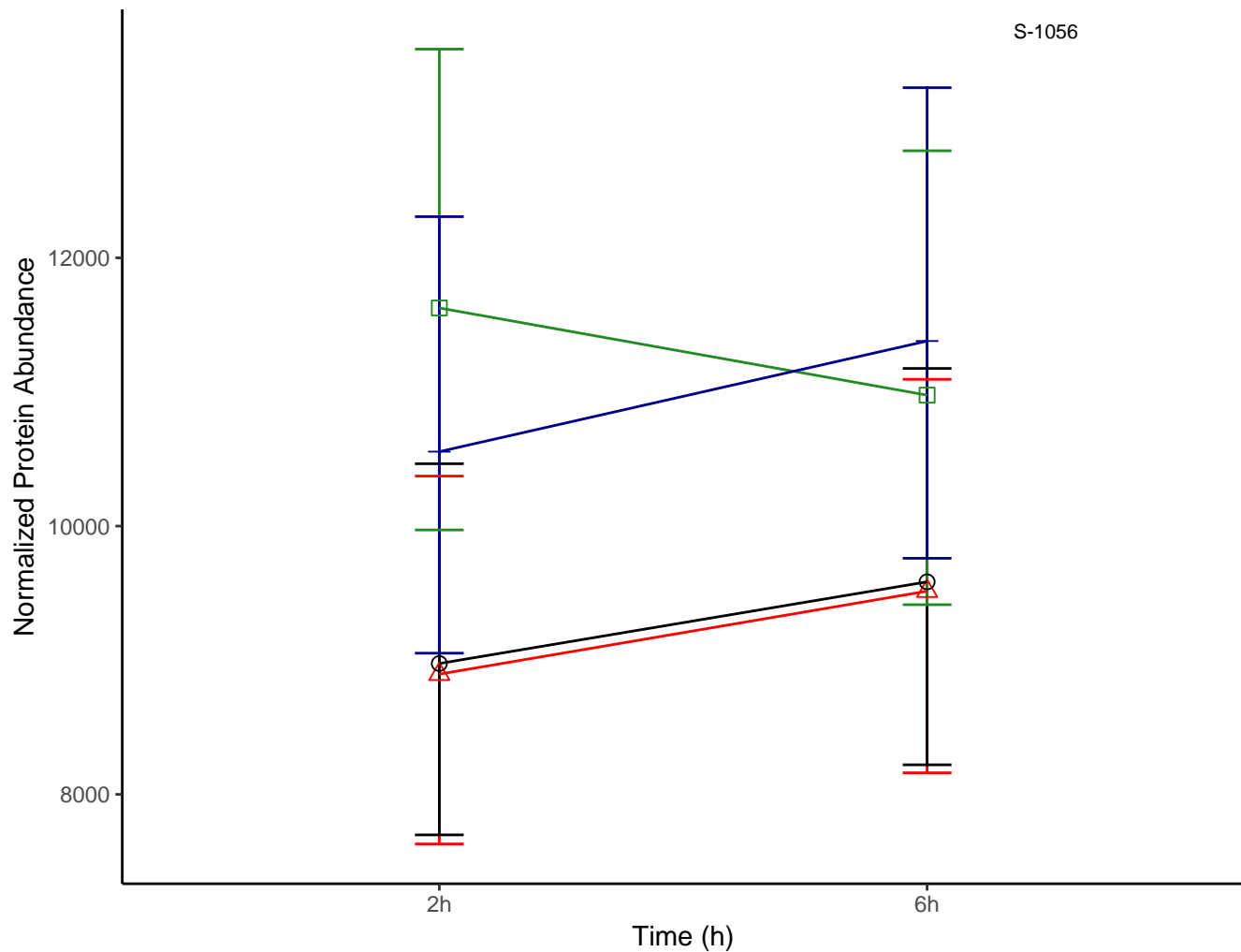
S-1055



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CLPP\_STAAM

S-1056

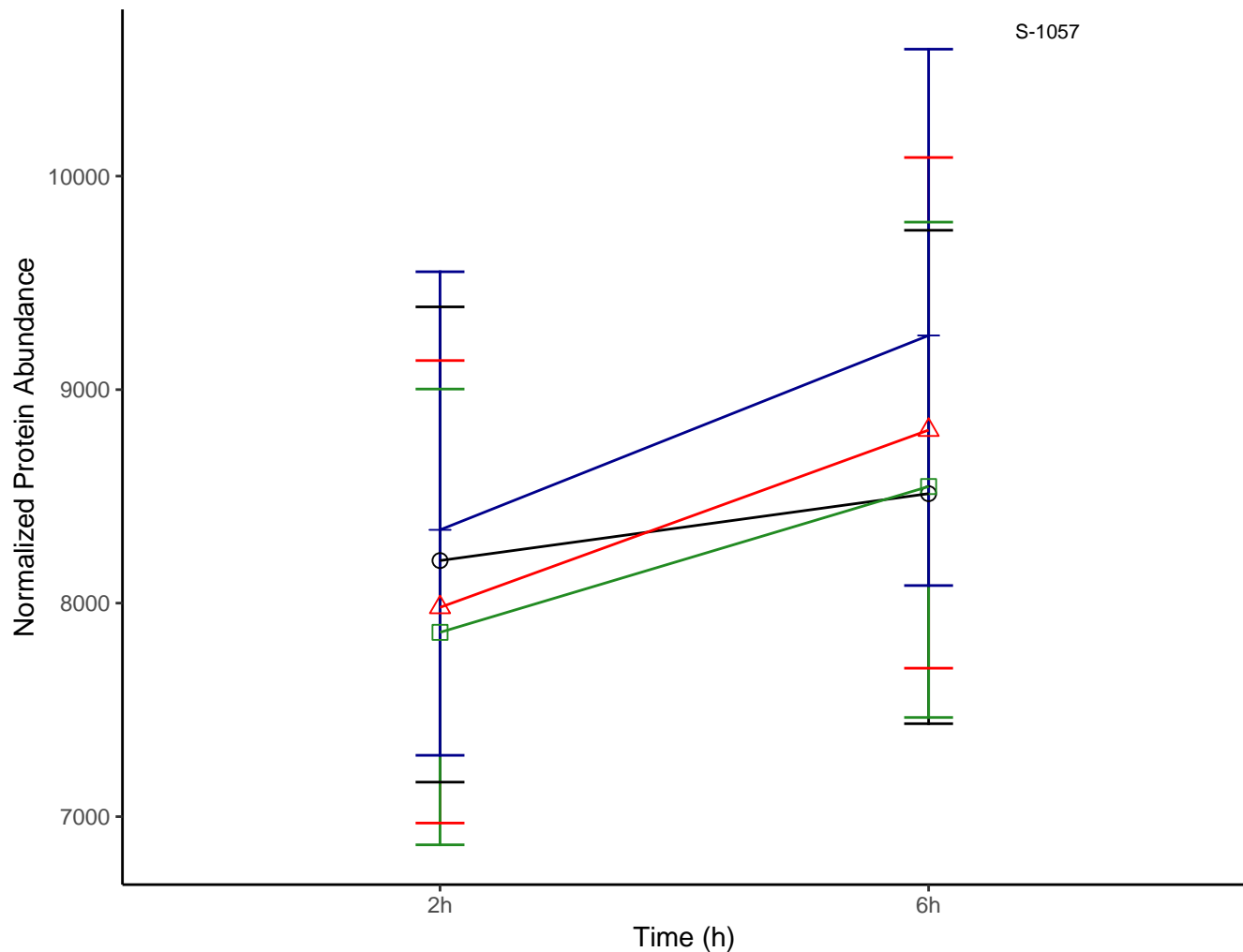


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# CLPX\_STAAM

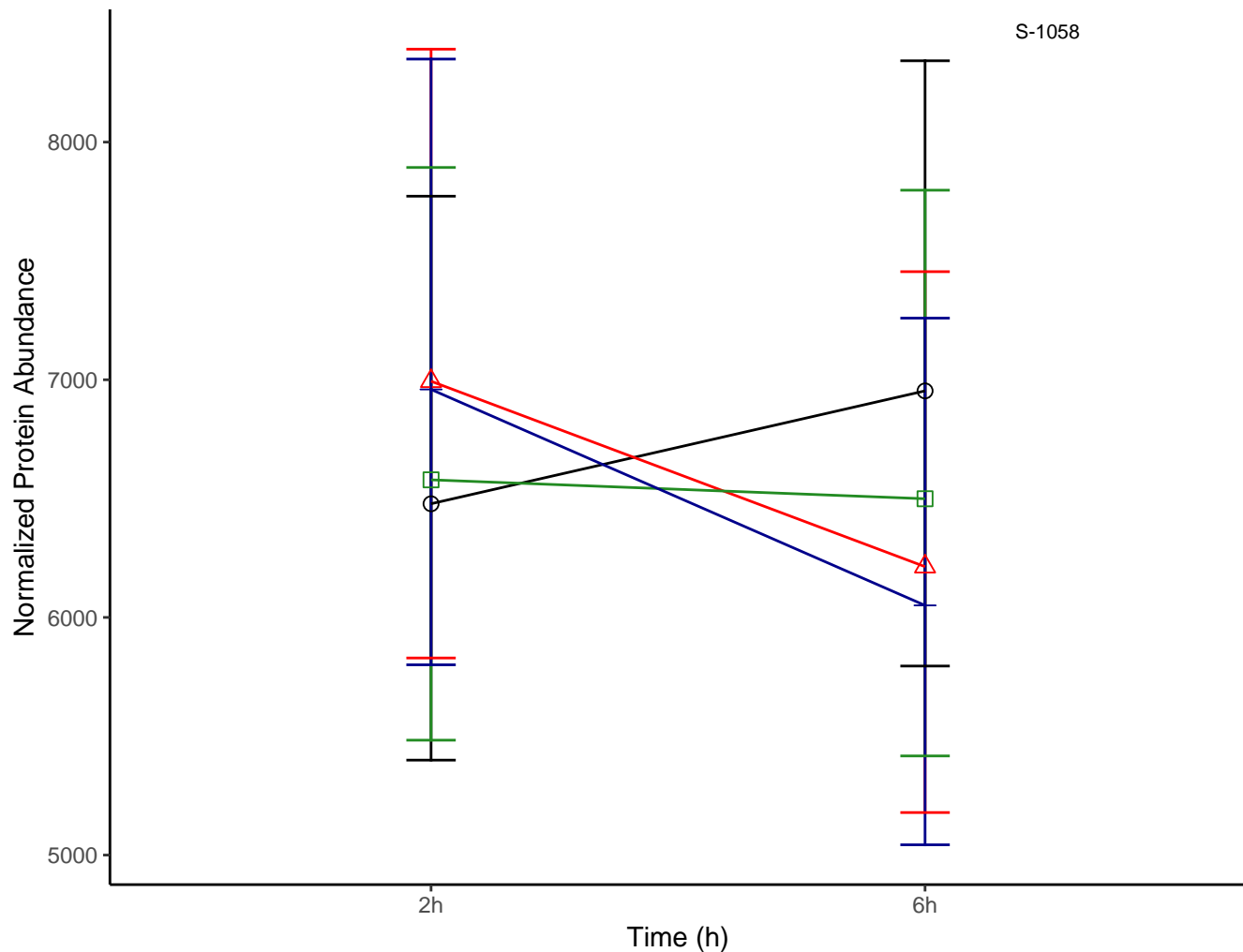
S-1057



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CODY\_STAAM

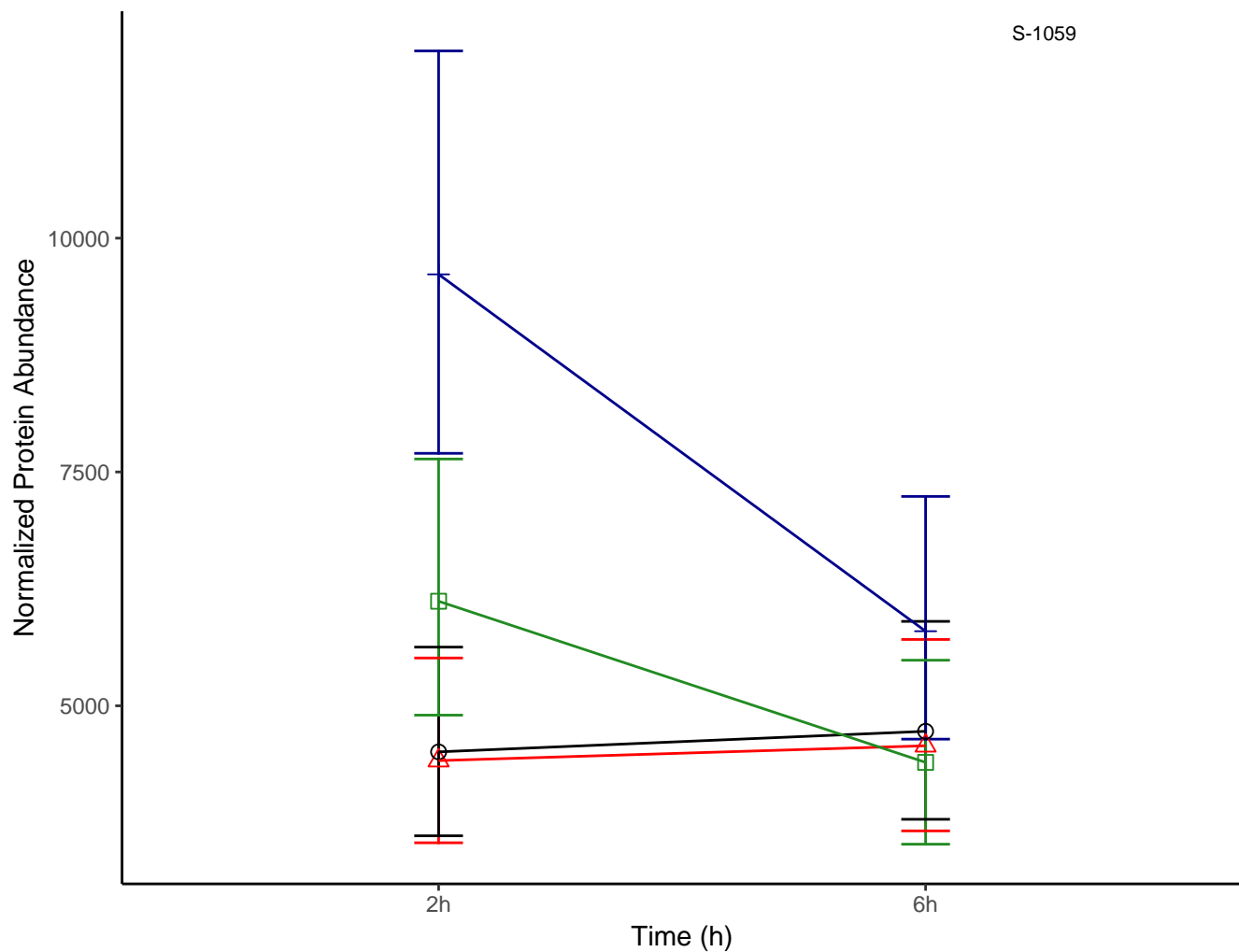
S-1058



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# COPZ\_STAAM

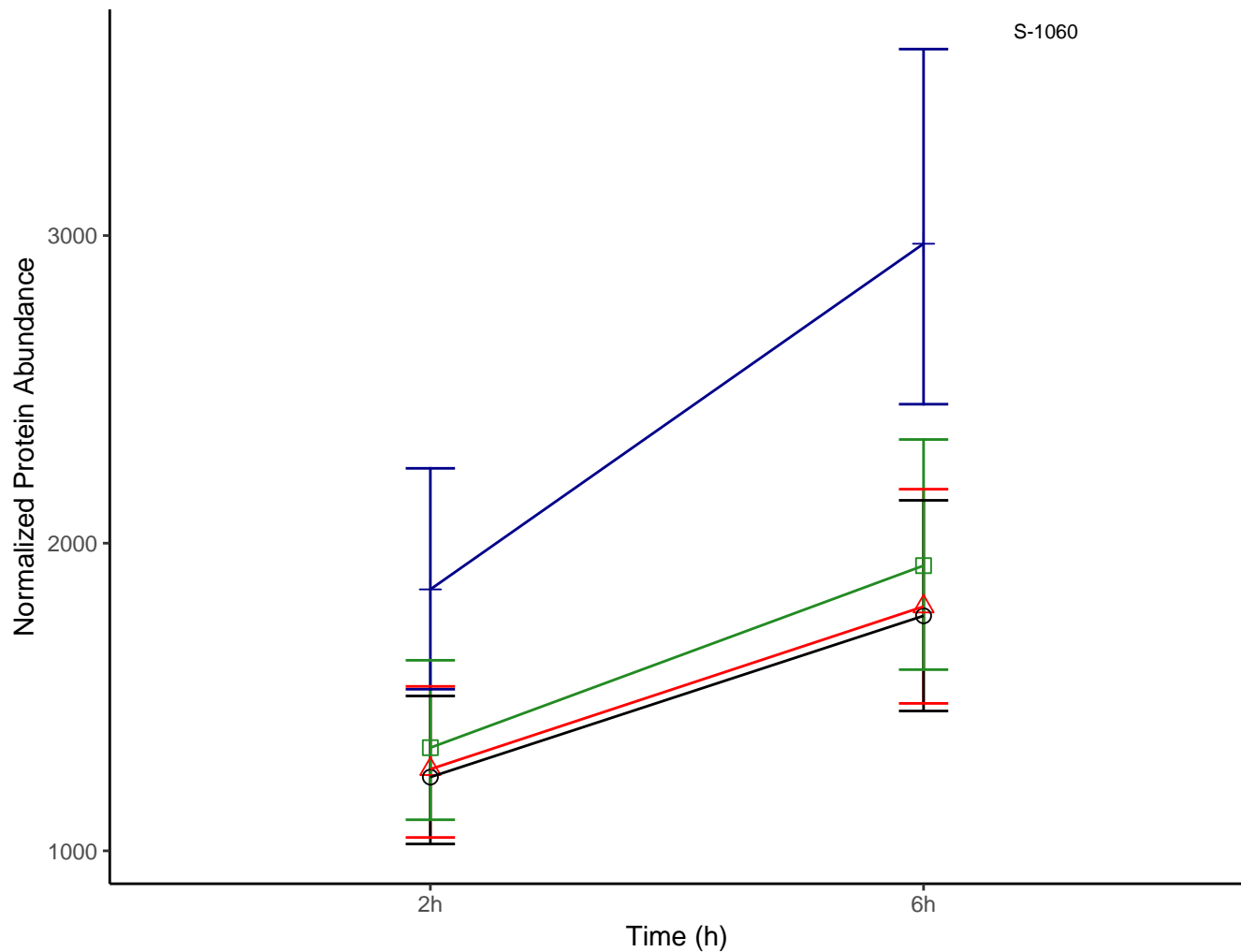
S-1059



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CRTN\_STAAM

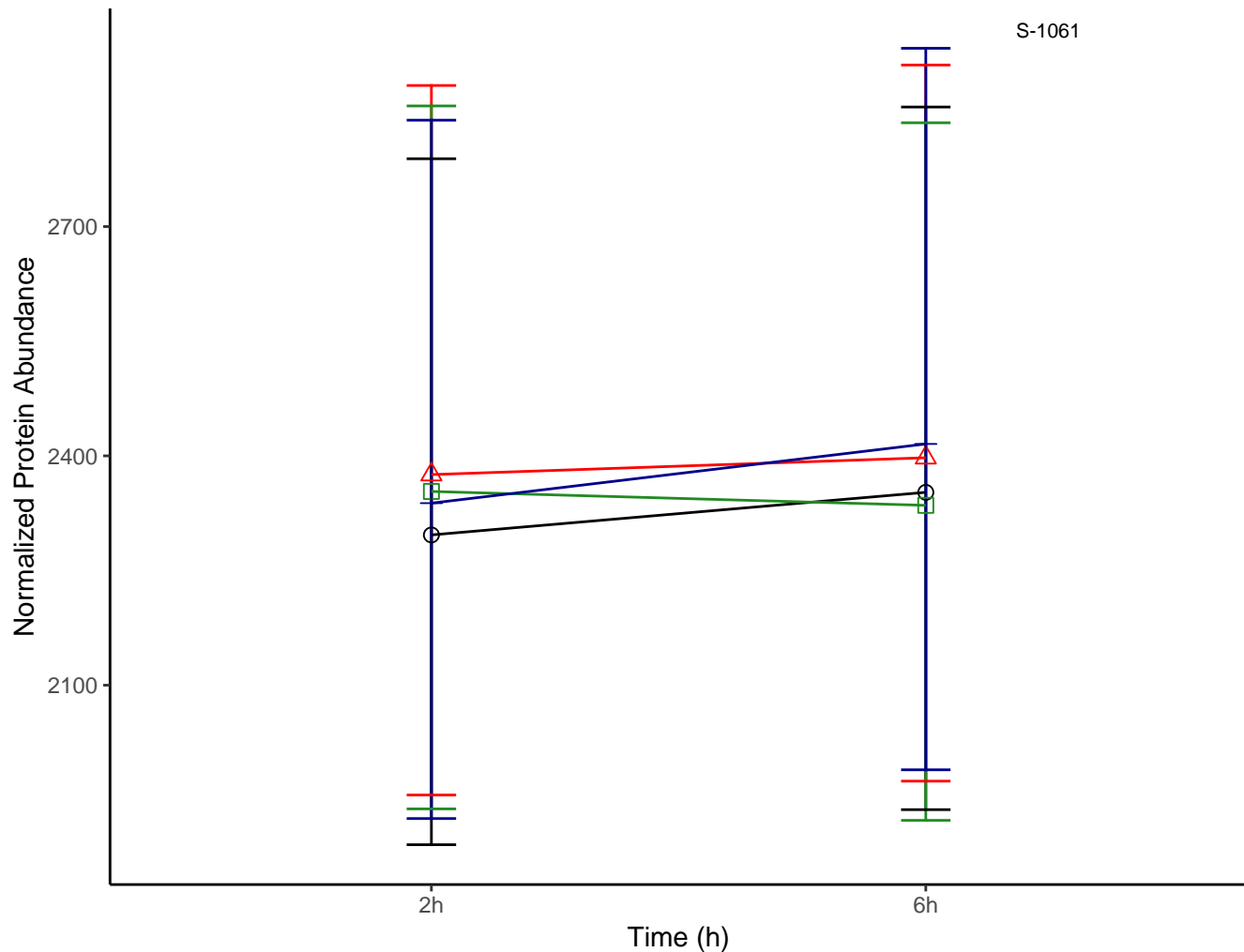
S-1060



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CSD\_STAAM

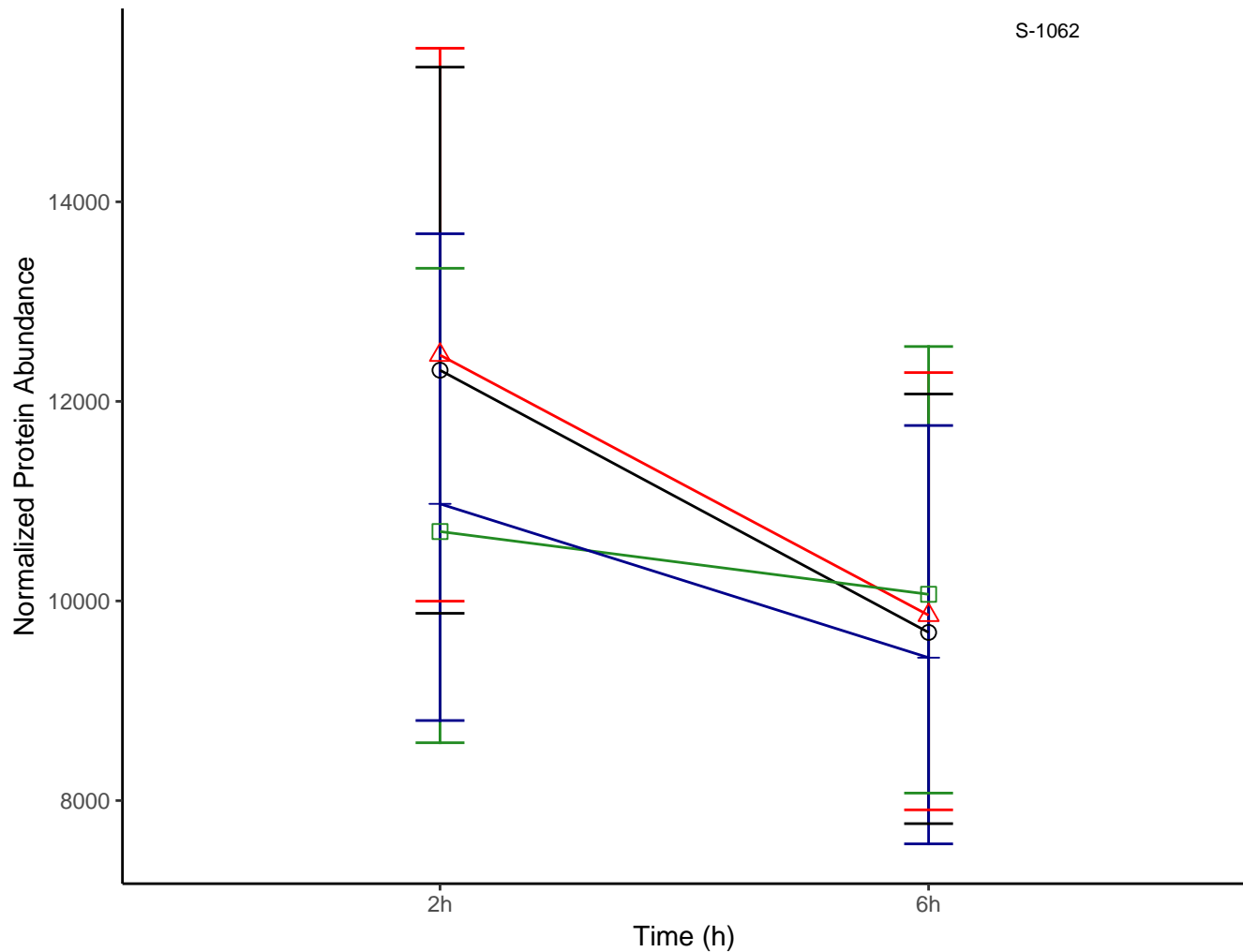
S-1061



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# CSHA\_STAAM

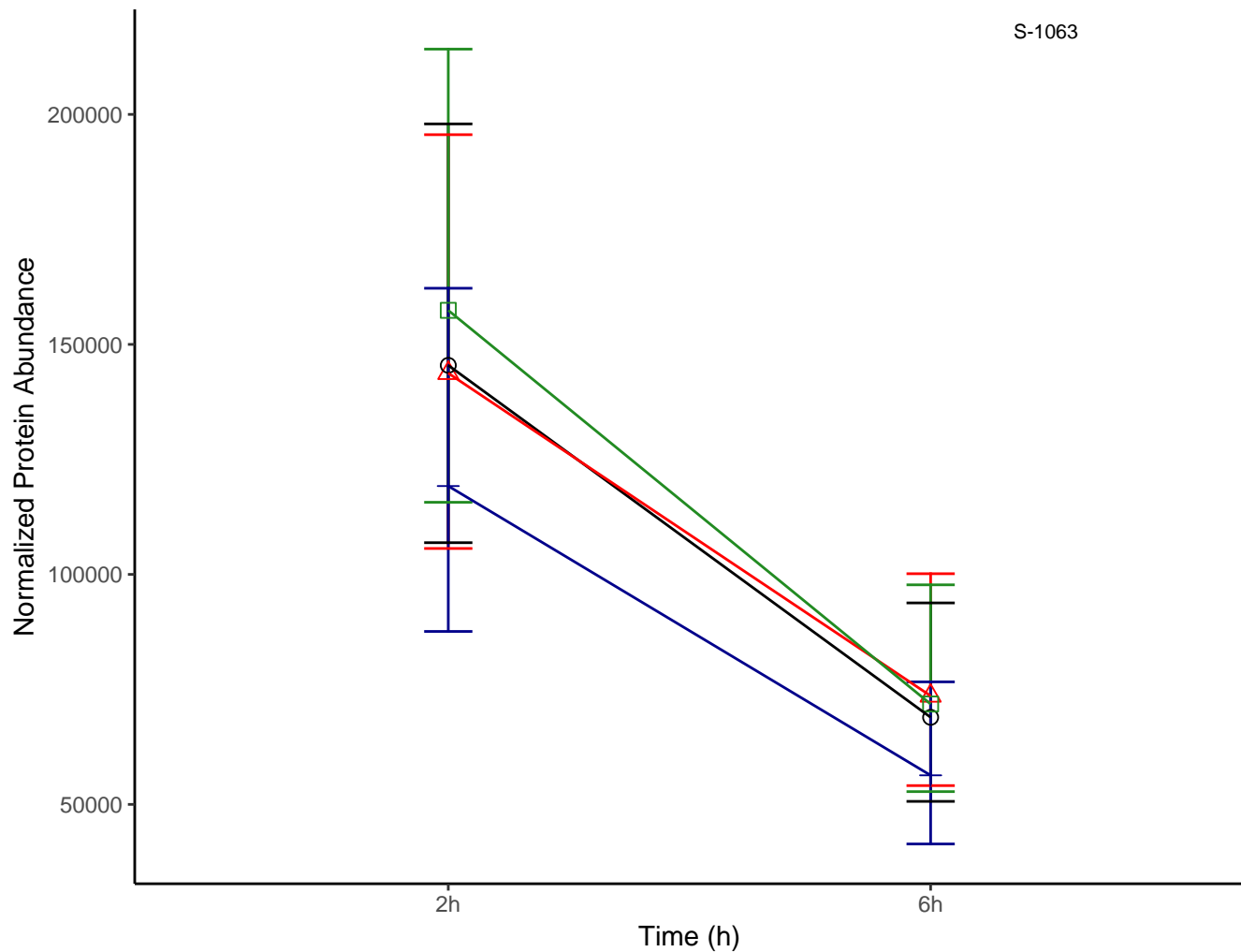
S-1062



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CSPA\_STAAM

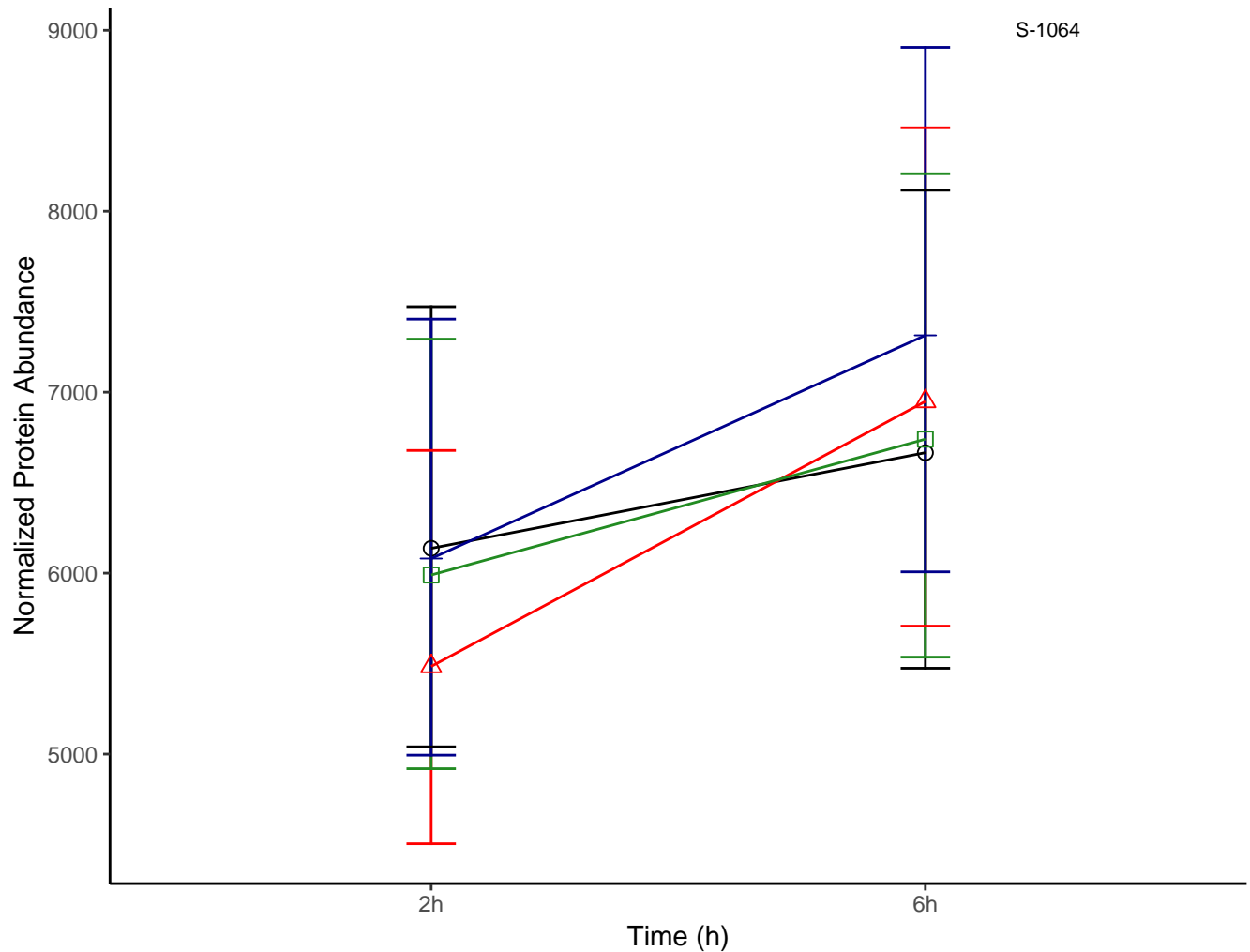
S-1063



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# CTPAL\_STAAM

S-1064

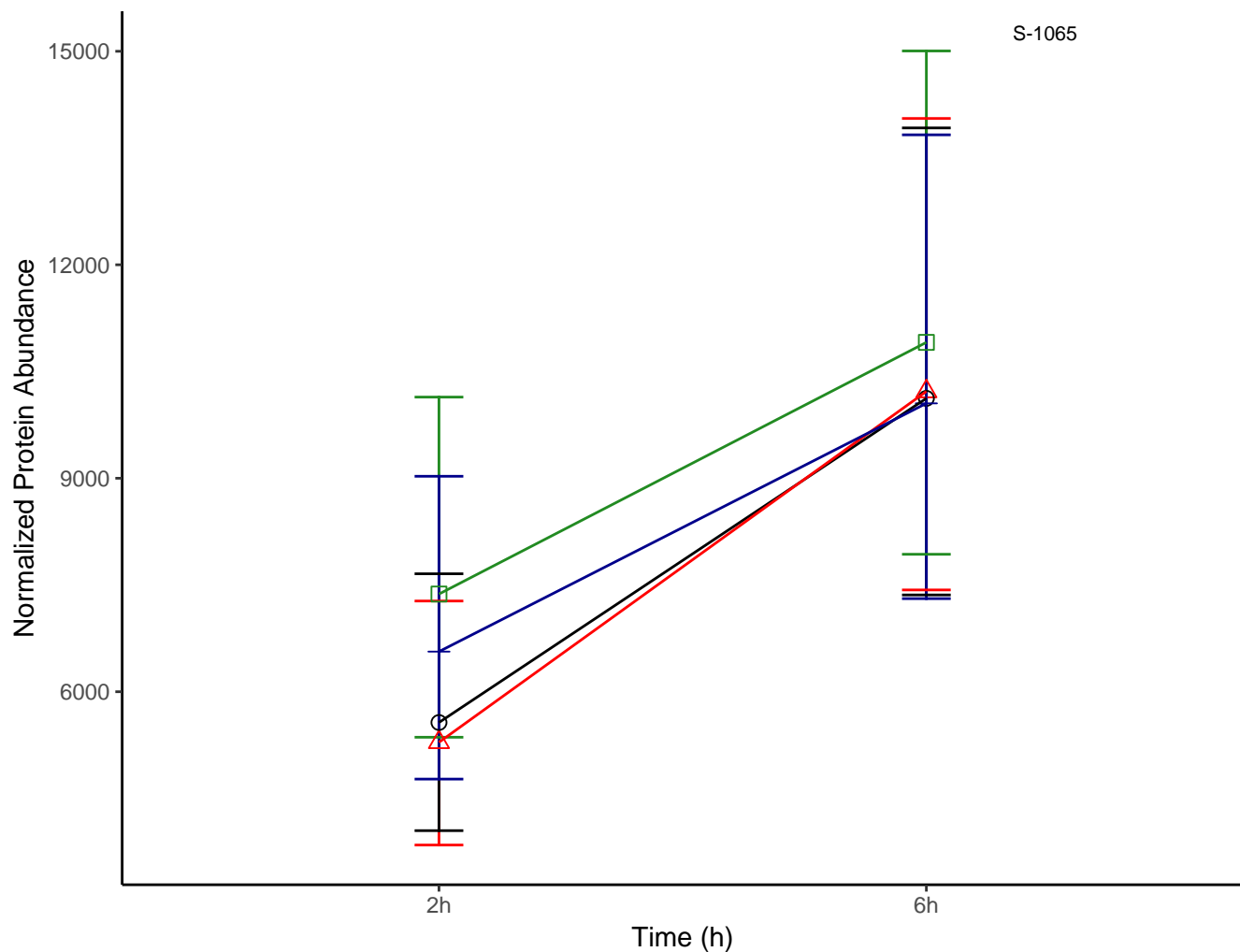


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# CVFB\_STAAM

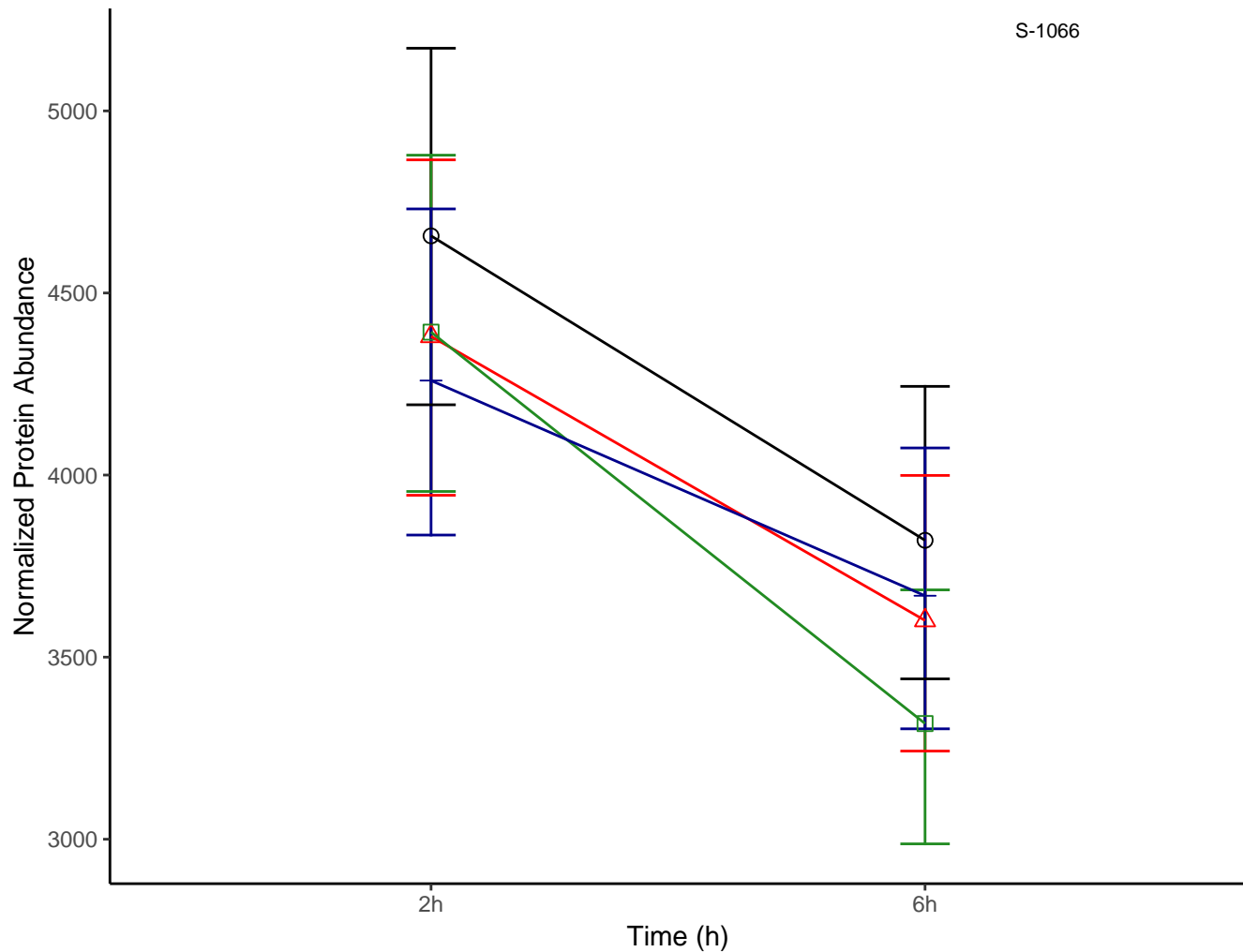
S-1065



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CYSE\_STAAM

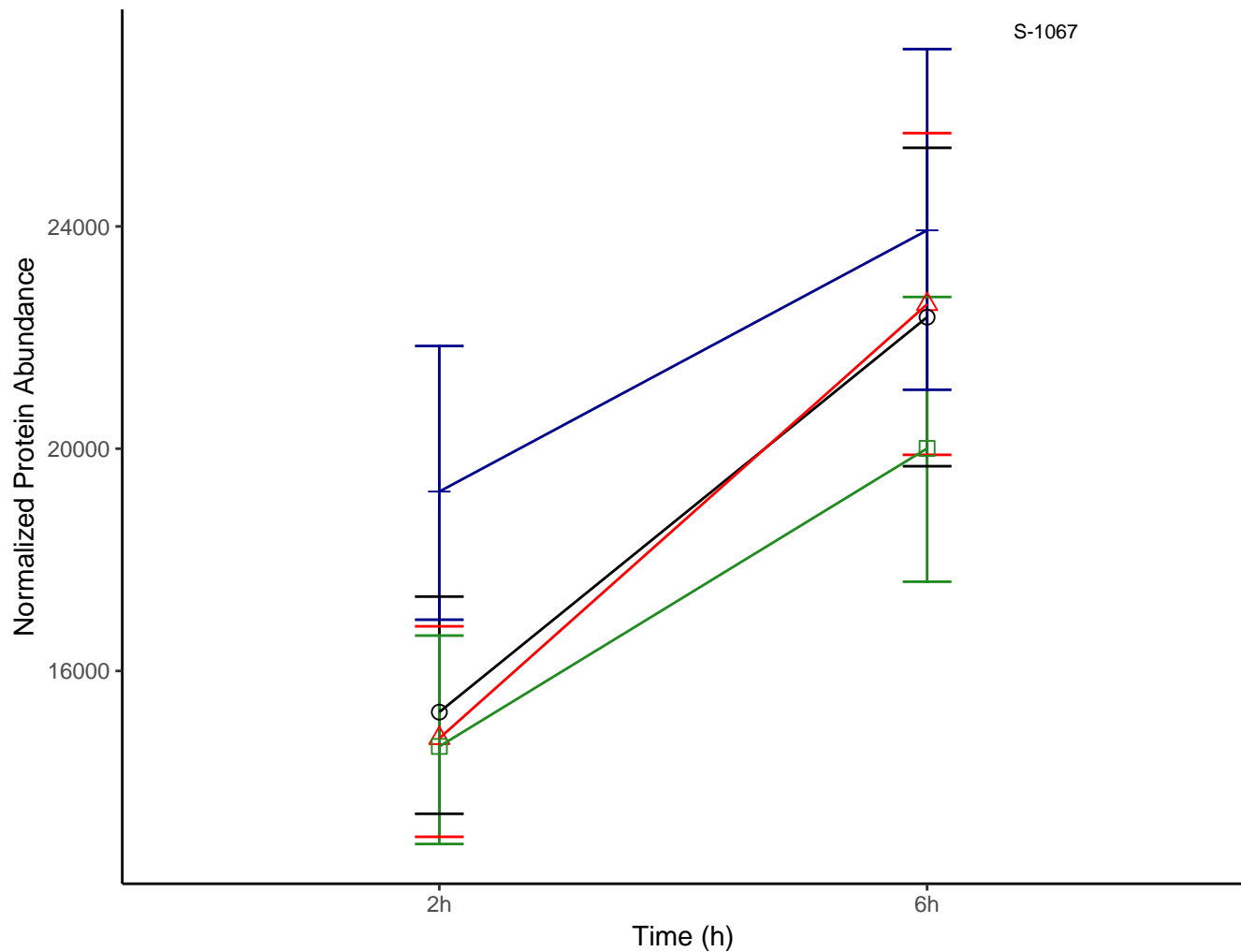
S-1066



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# CYSK\_STAAM

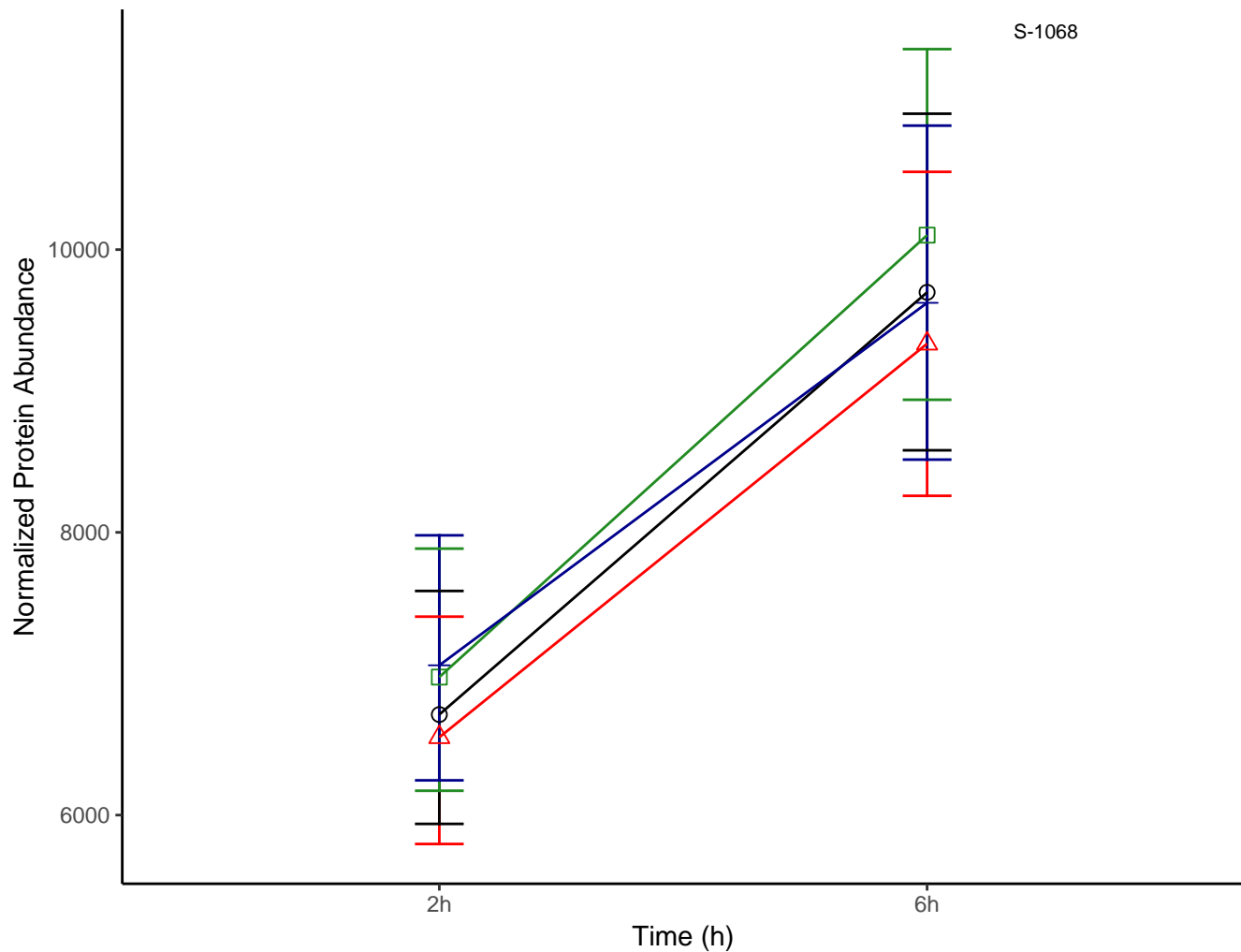
S-1067



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DAAA\_STAAM

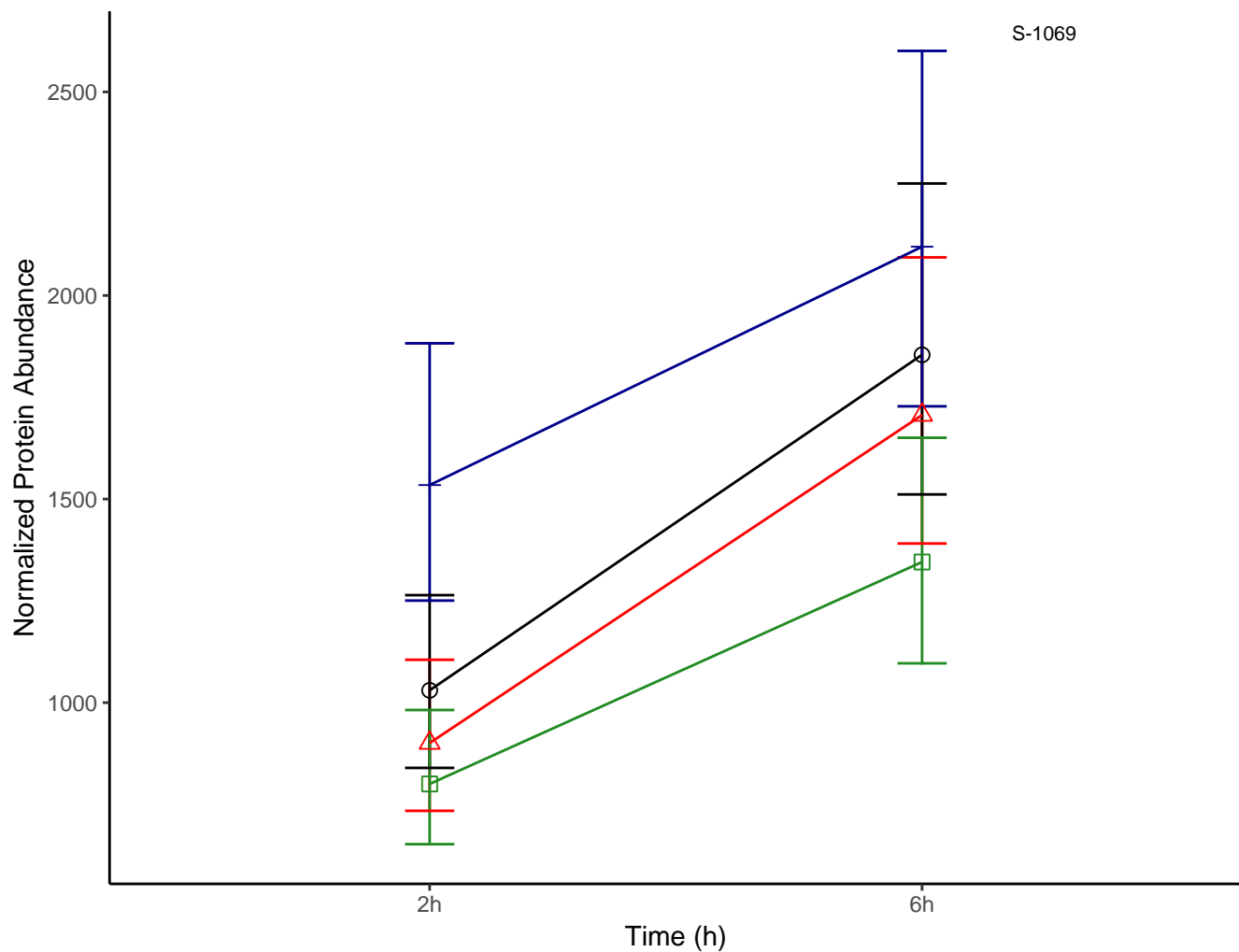
S-1068



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DAPB\_STAAM

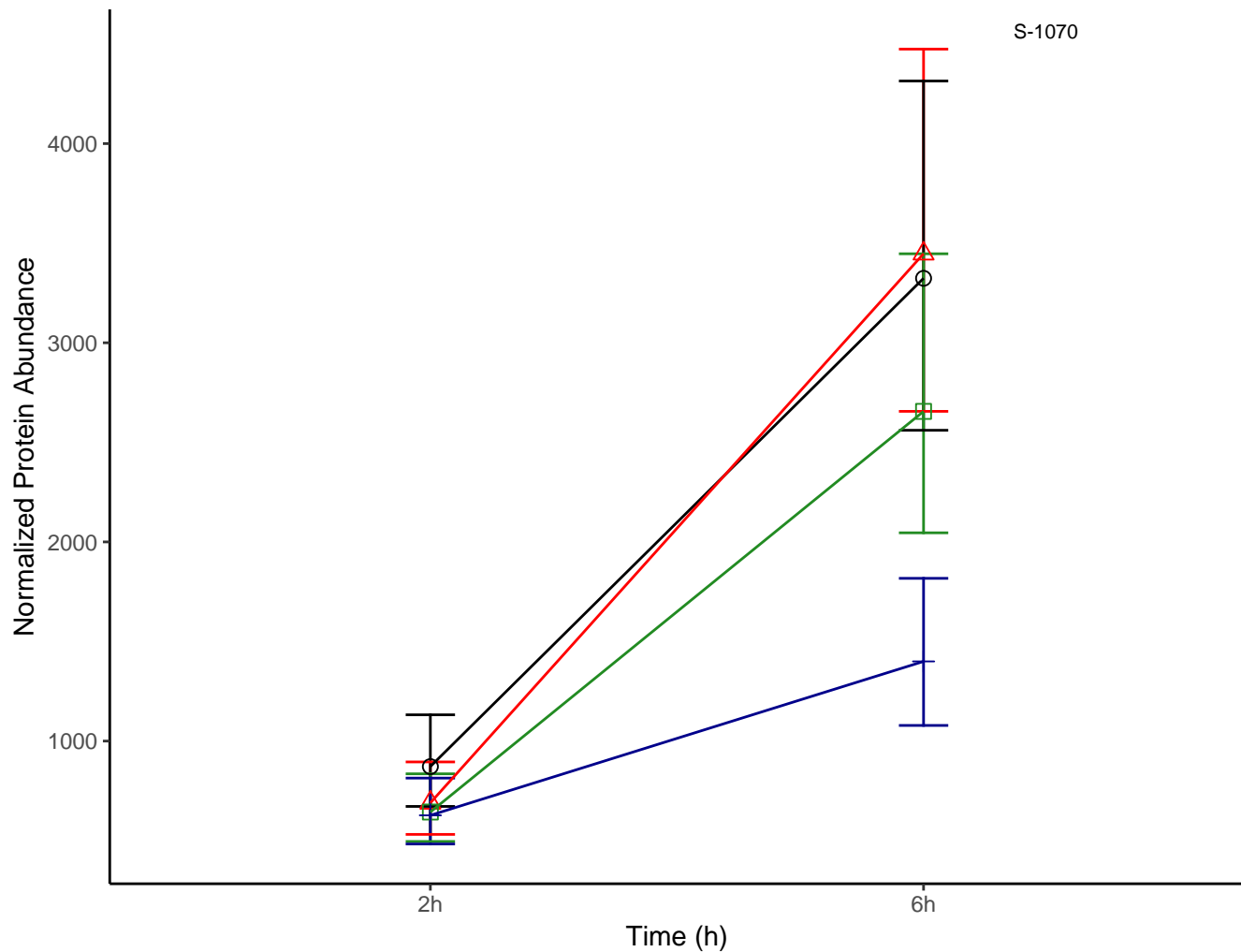
S-1069



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DAPH\_STAAM

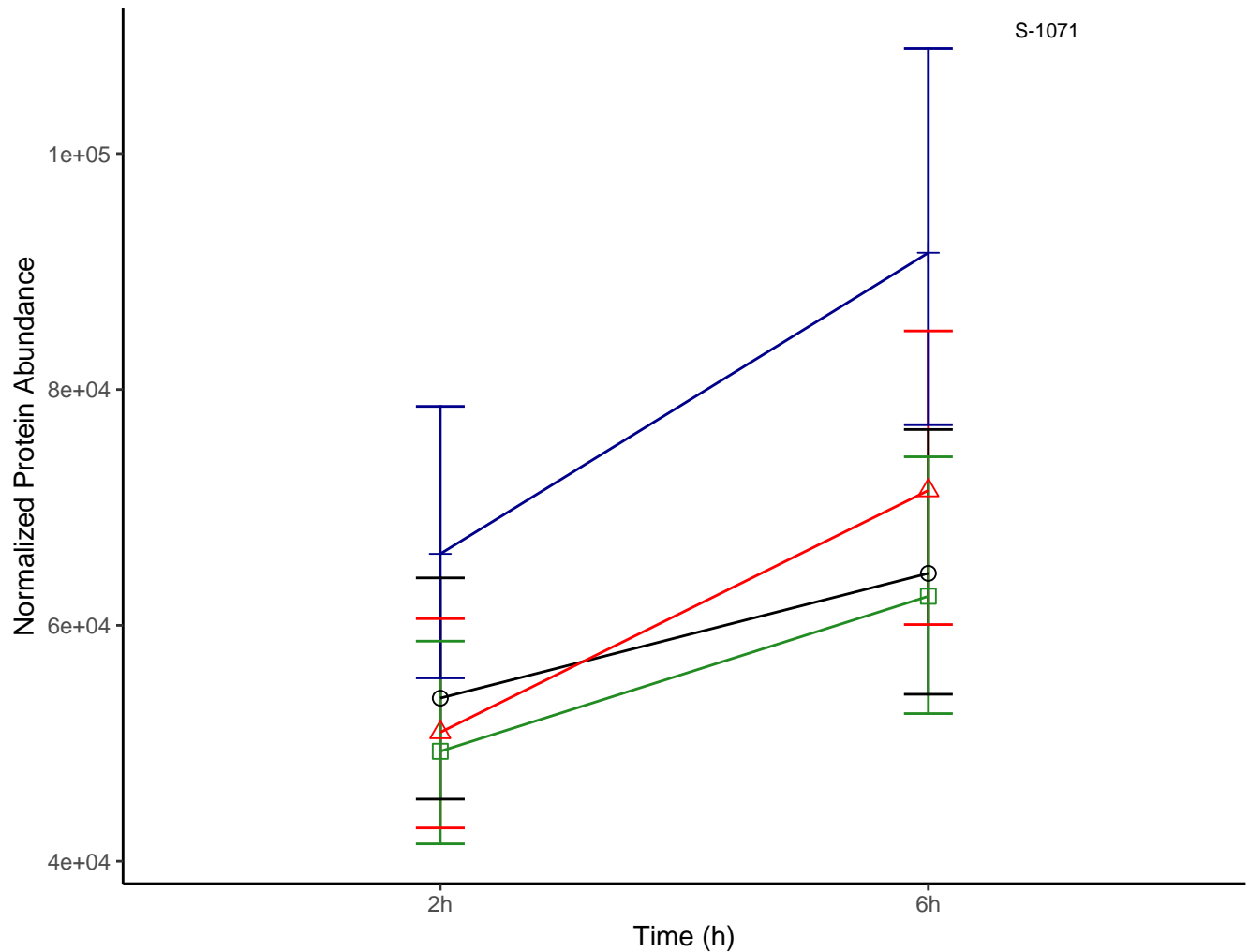
S-1070



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DBH\_STAAM

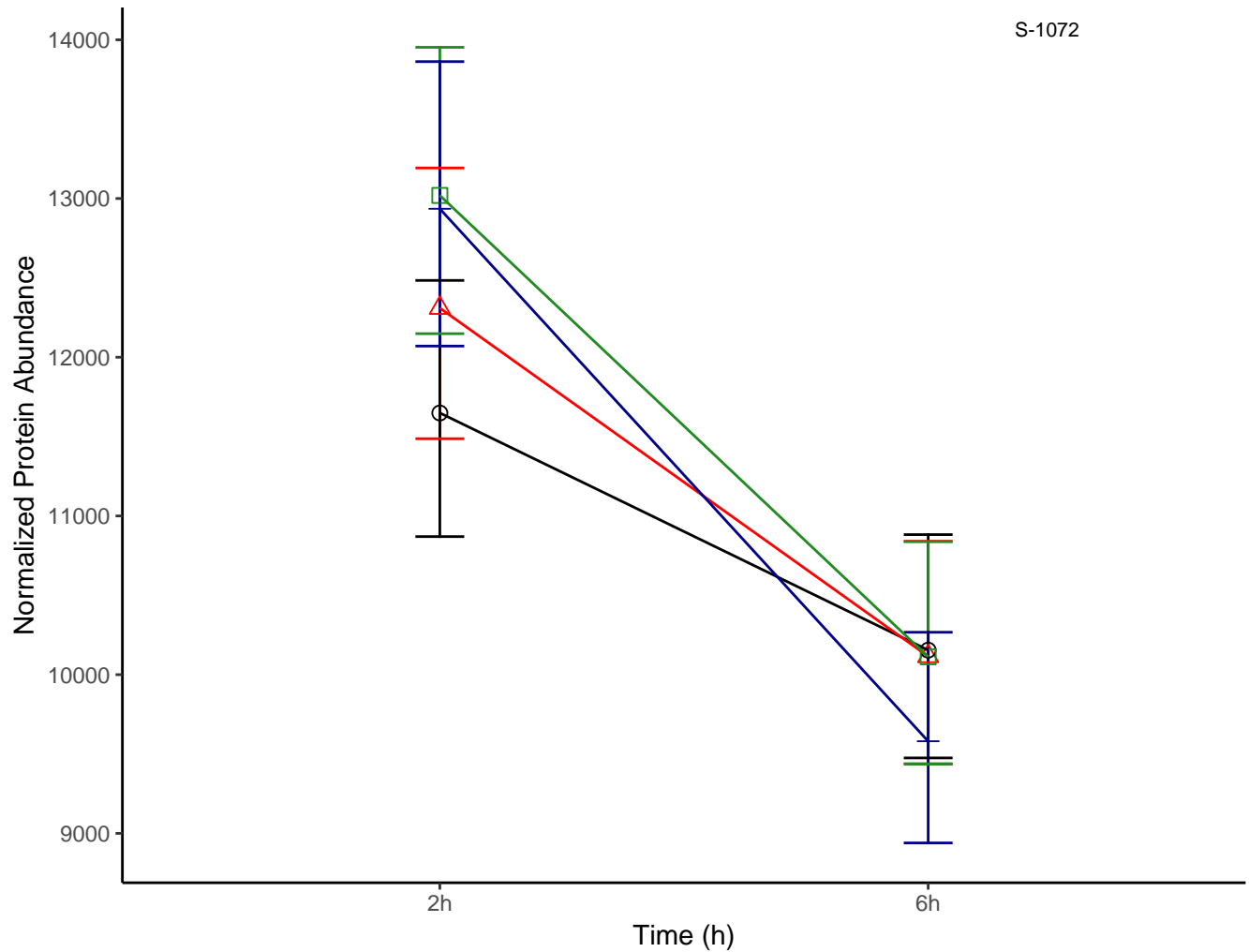
S-1071



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DCUP\_STAAM

S-1072

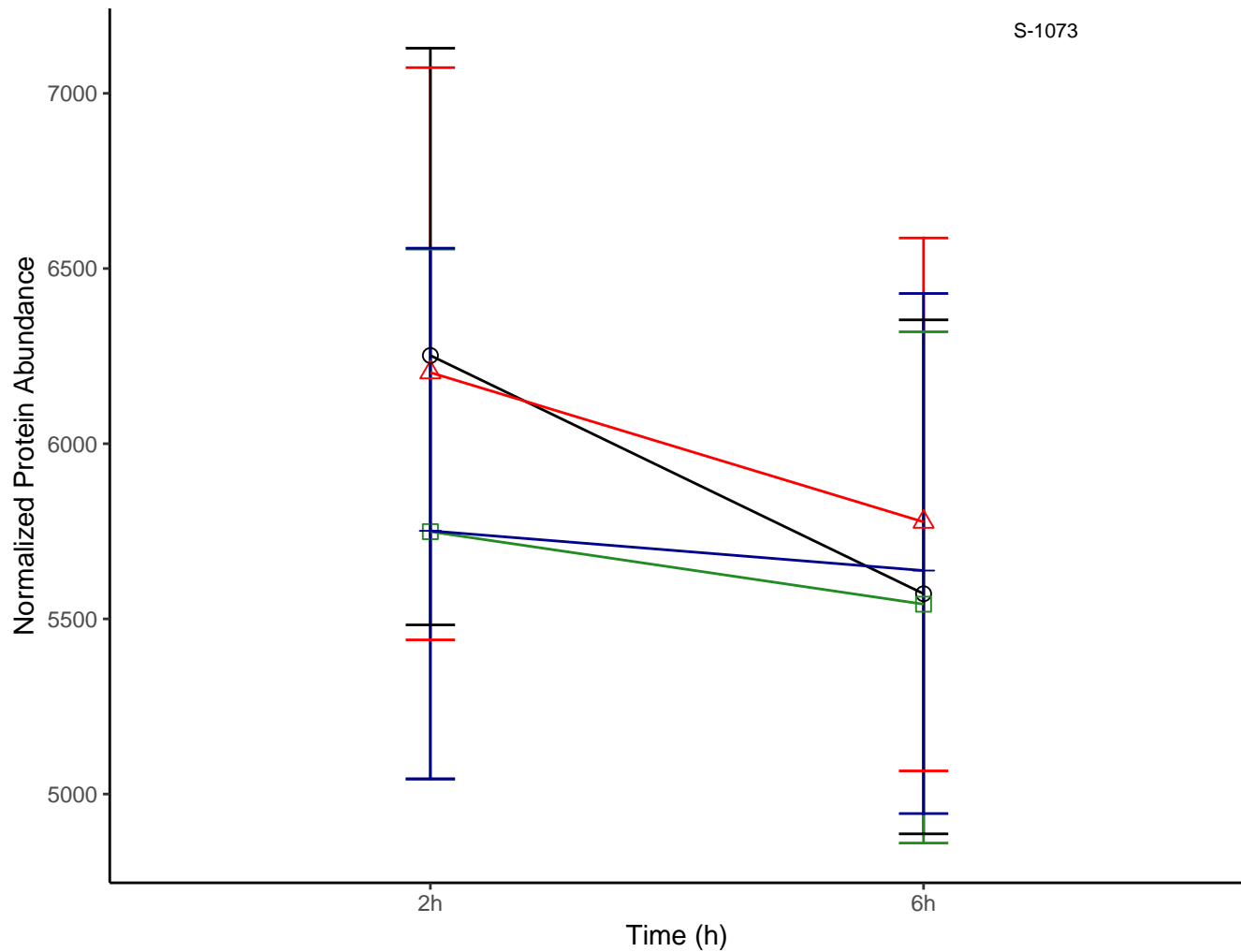


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



## DDL\_STAAM

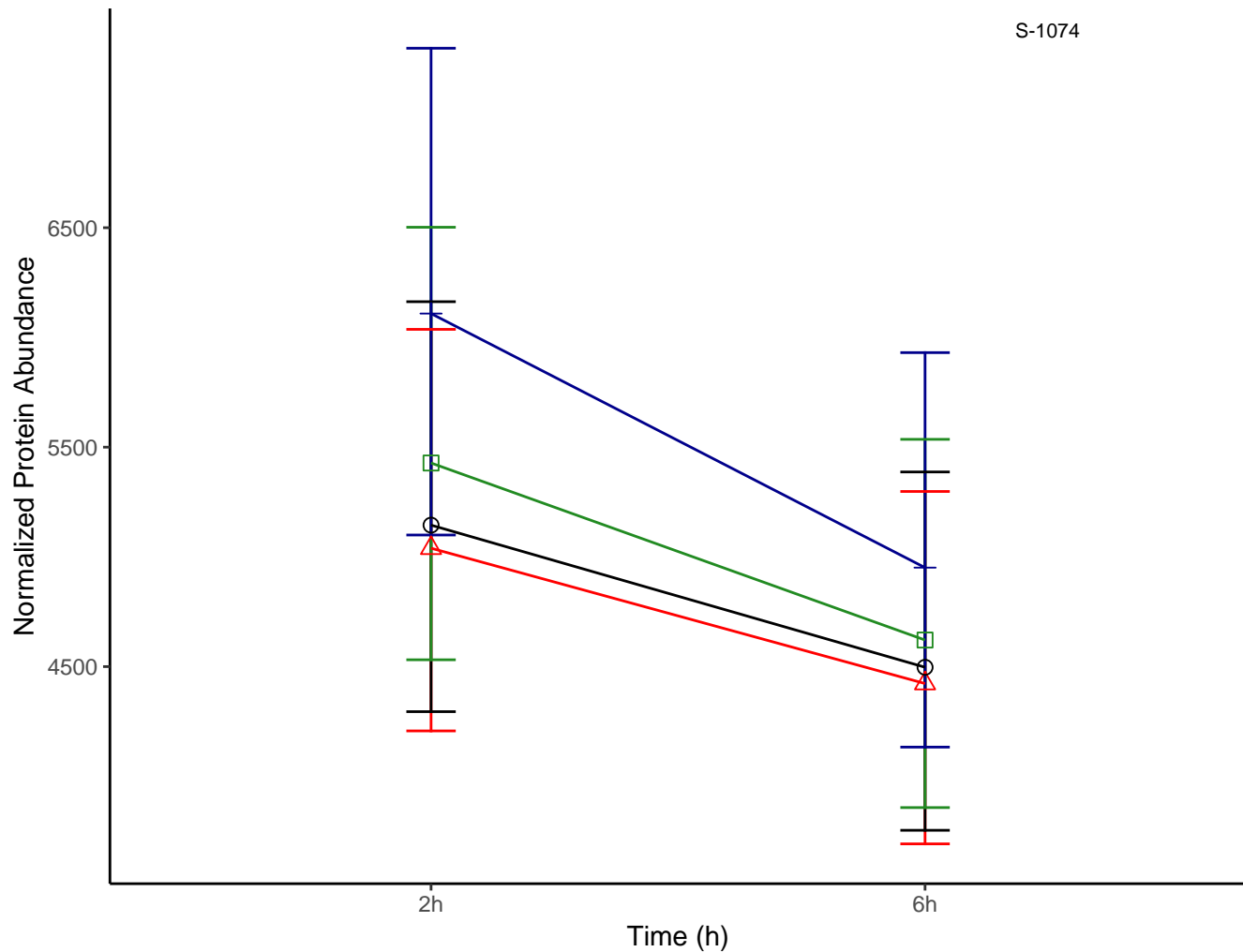
S-1073



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## DEF\_STAAM

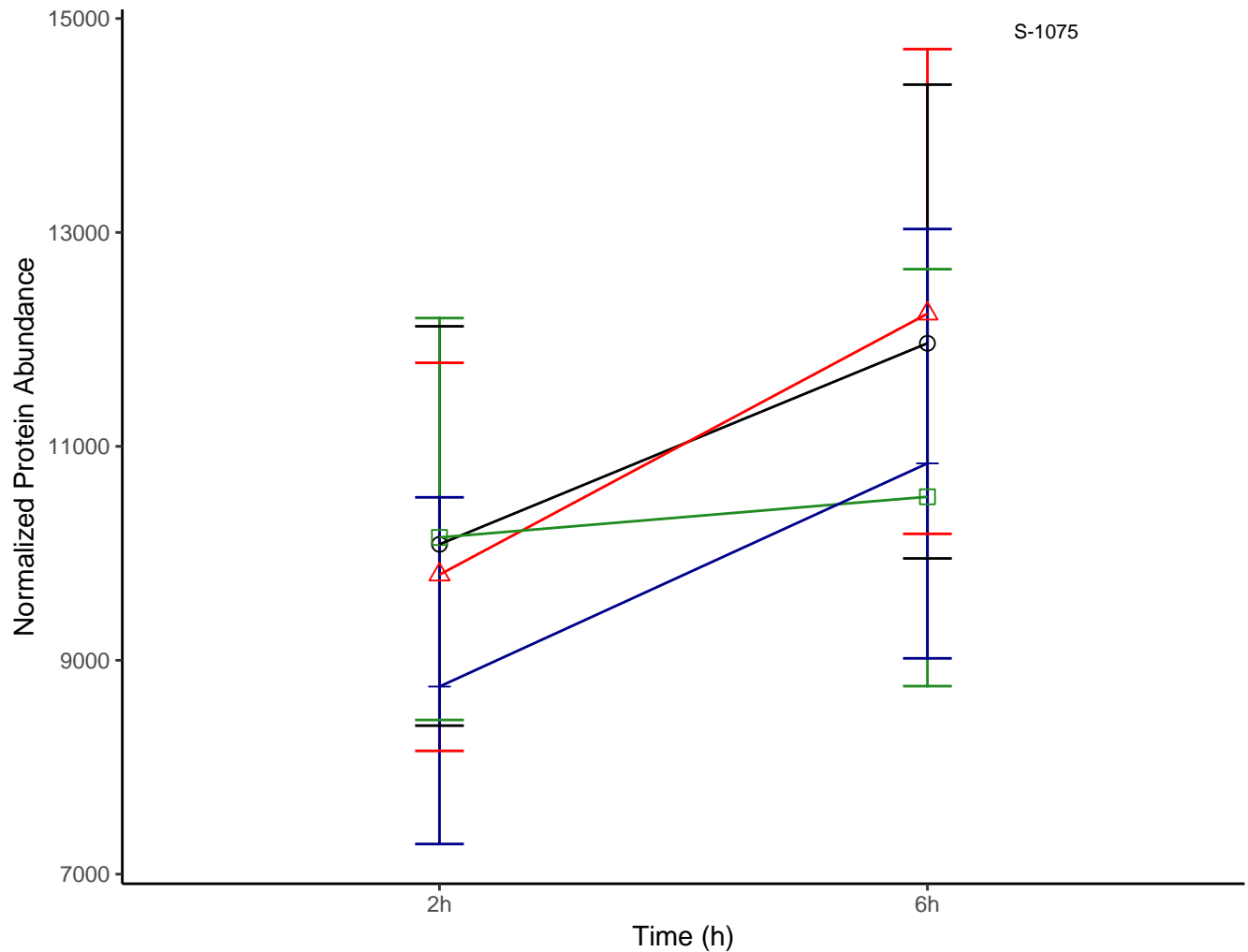
S-1074



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DEOB\_STAAM

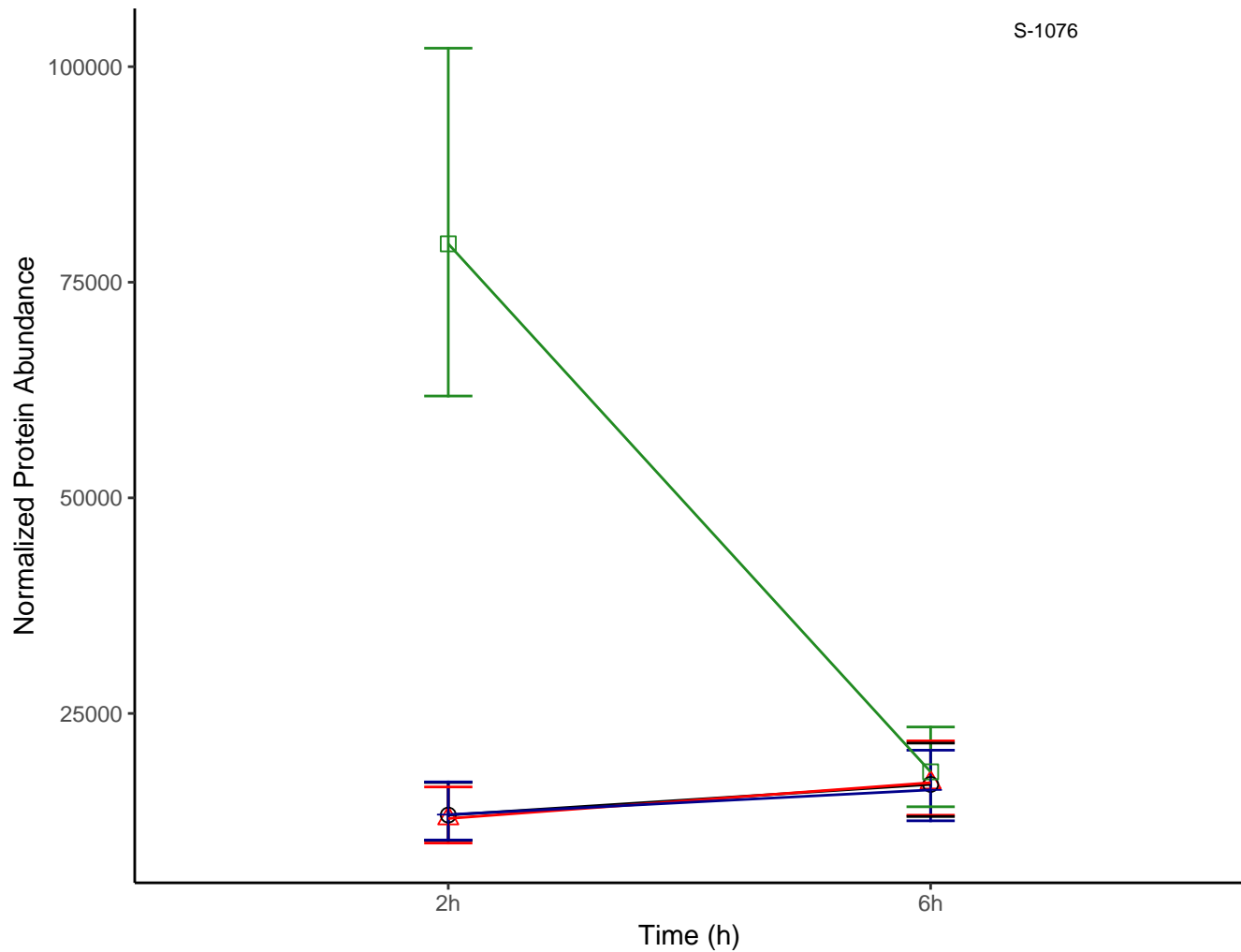
S-1075



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DEOC1\_STAAM

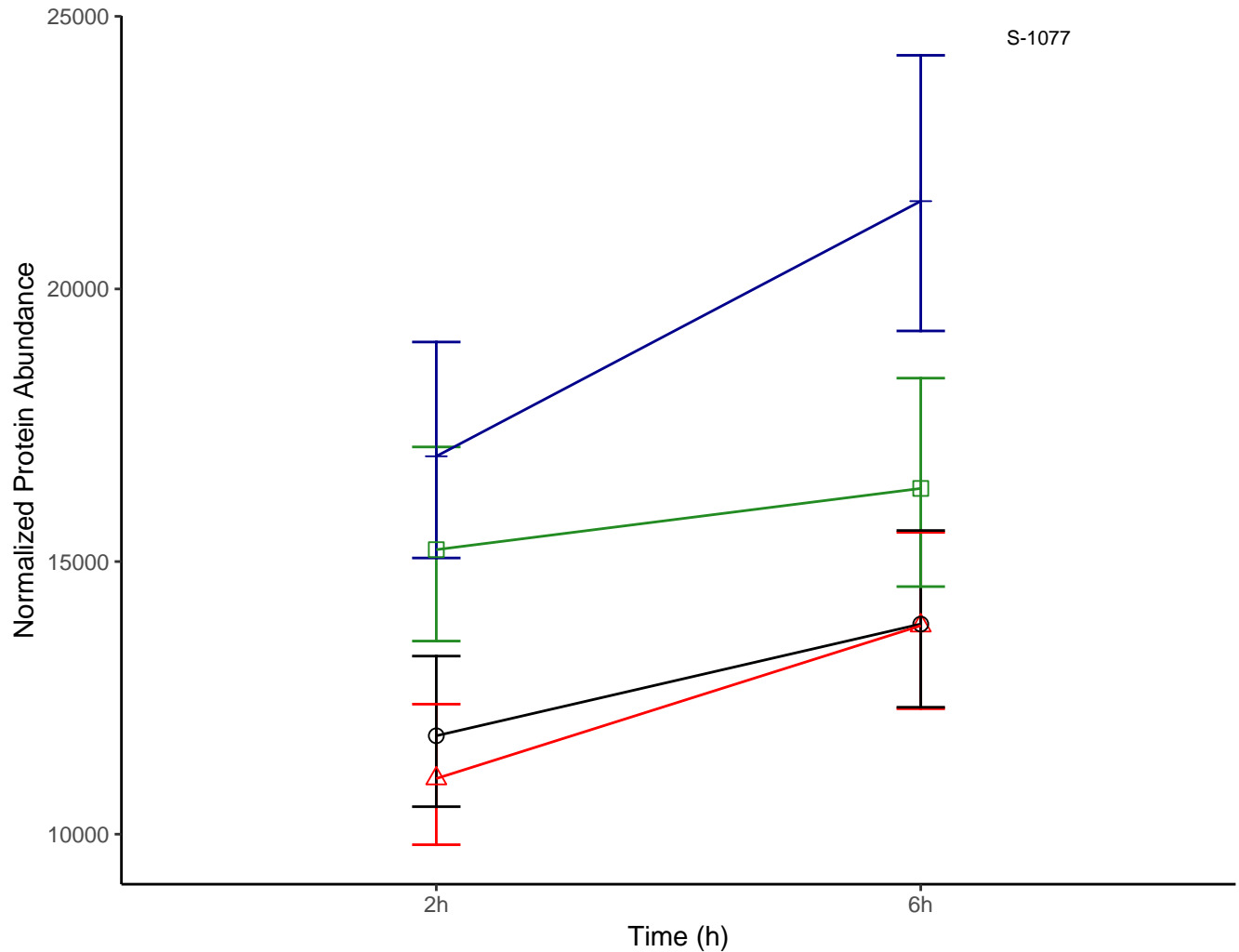
S-1076



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DEOC2\_STAAM

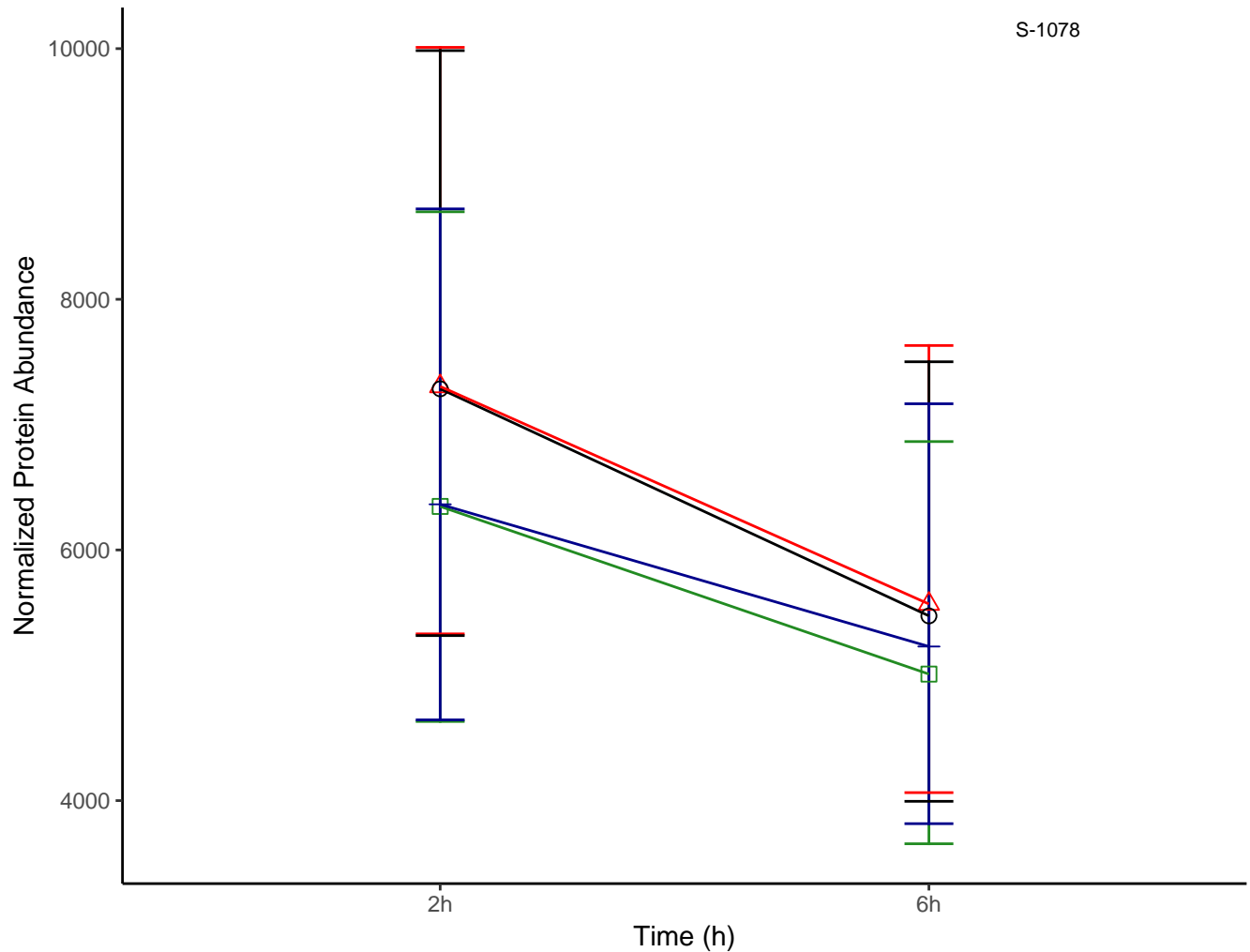
S-1077



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DER\_STAAM

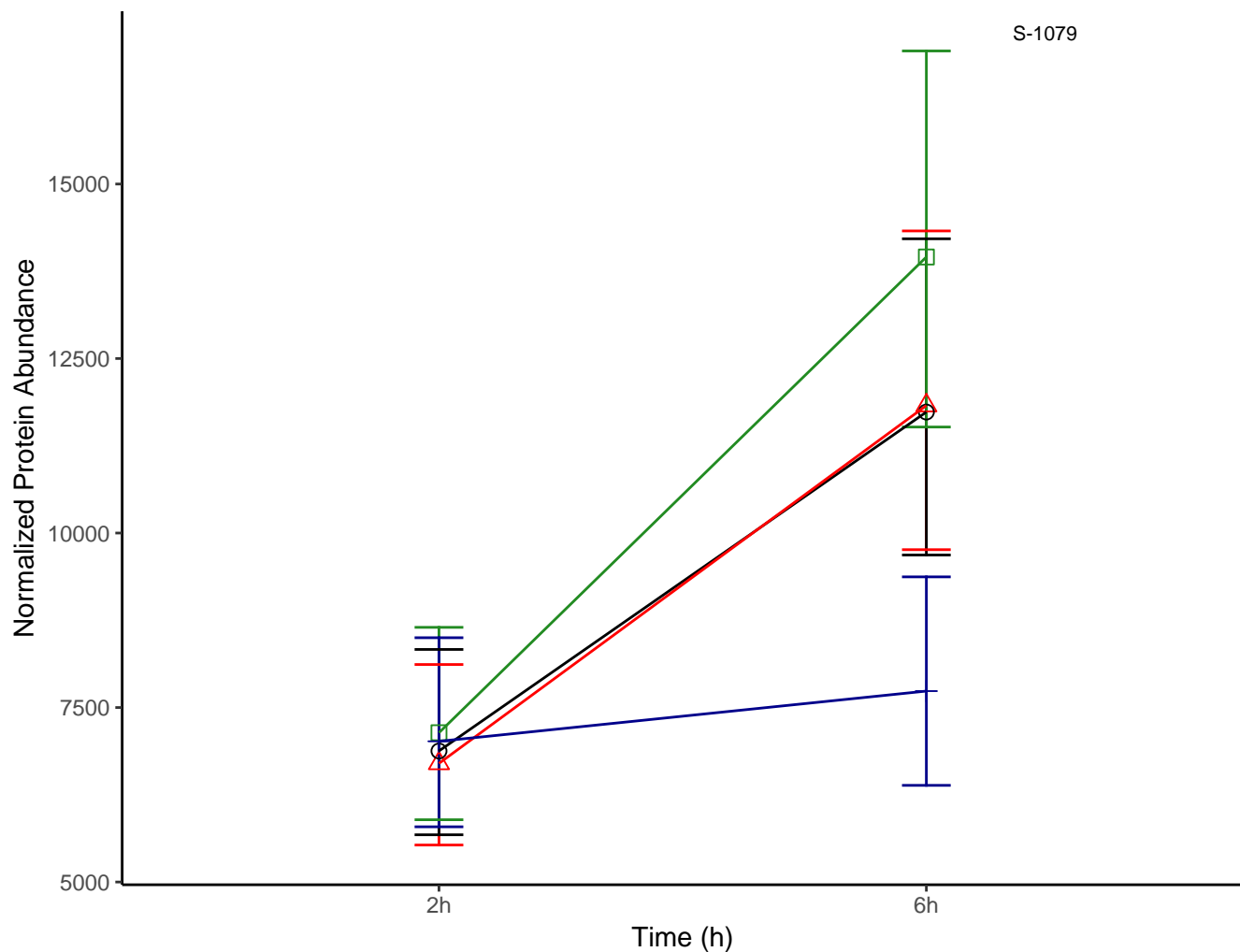
S-1078



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DHA1\_STAAM

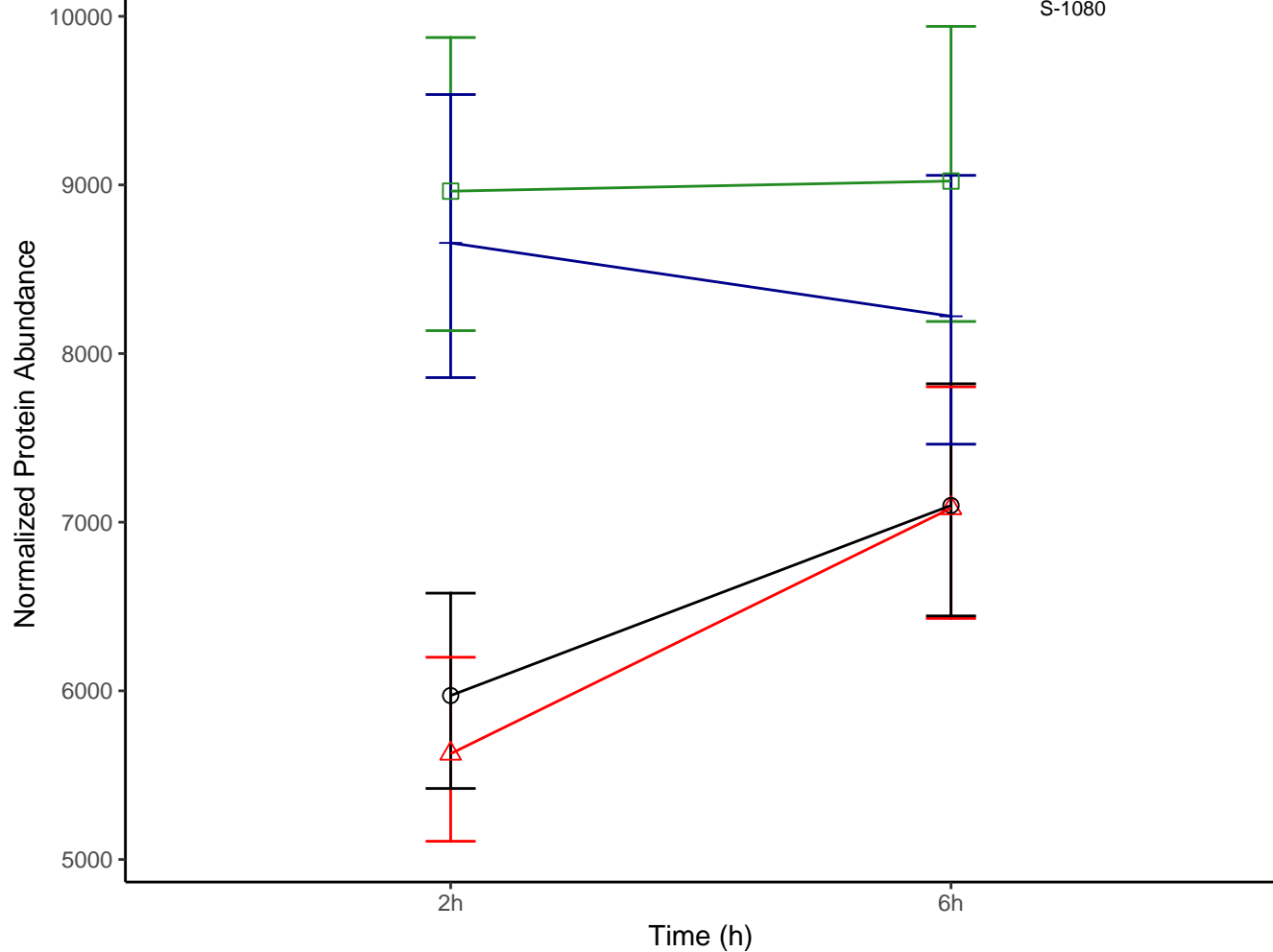
S-1079



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DHA2\_STAAM

S-1080

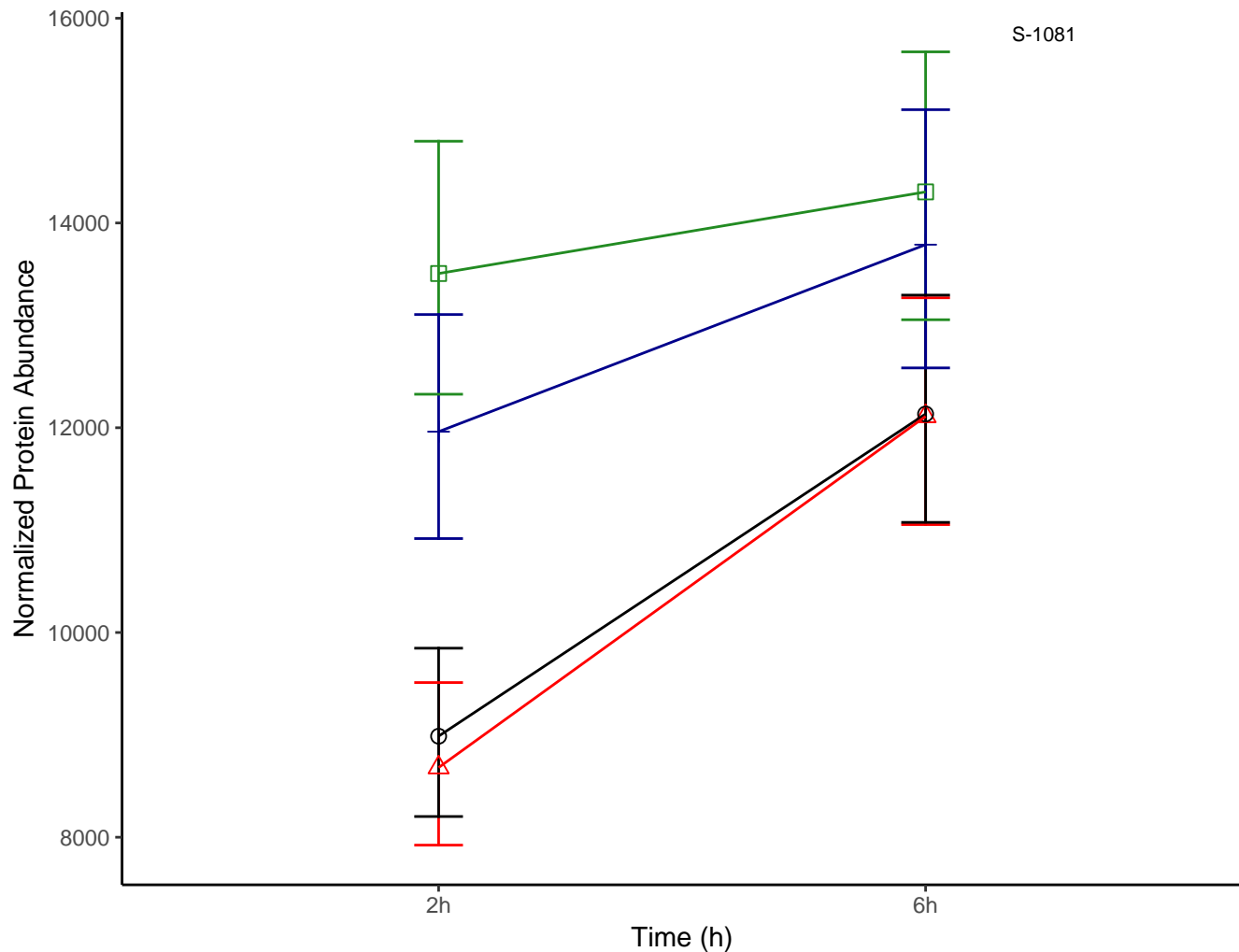


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# DHE2\_STAAM

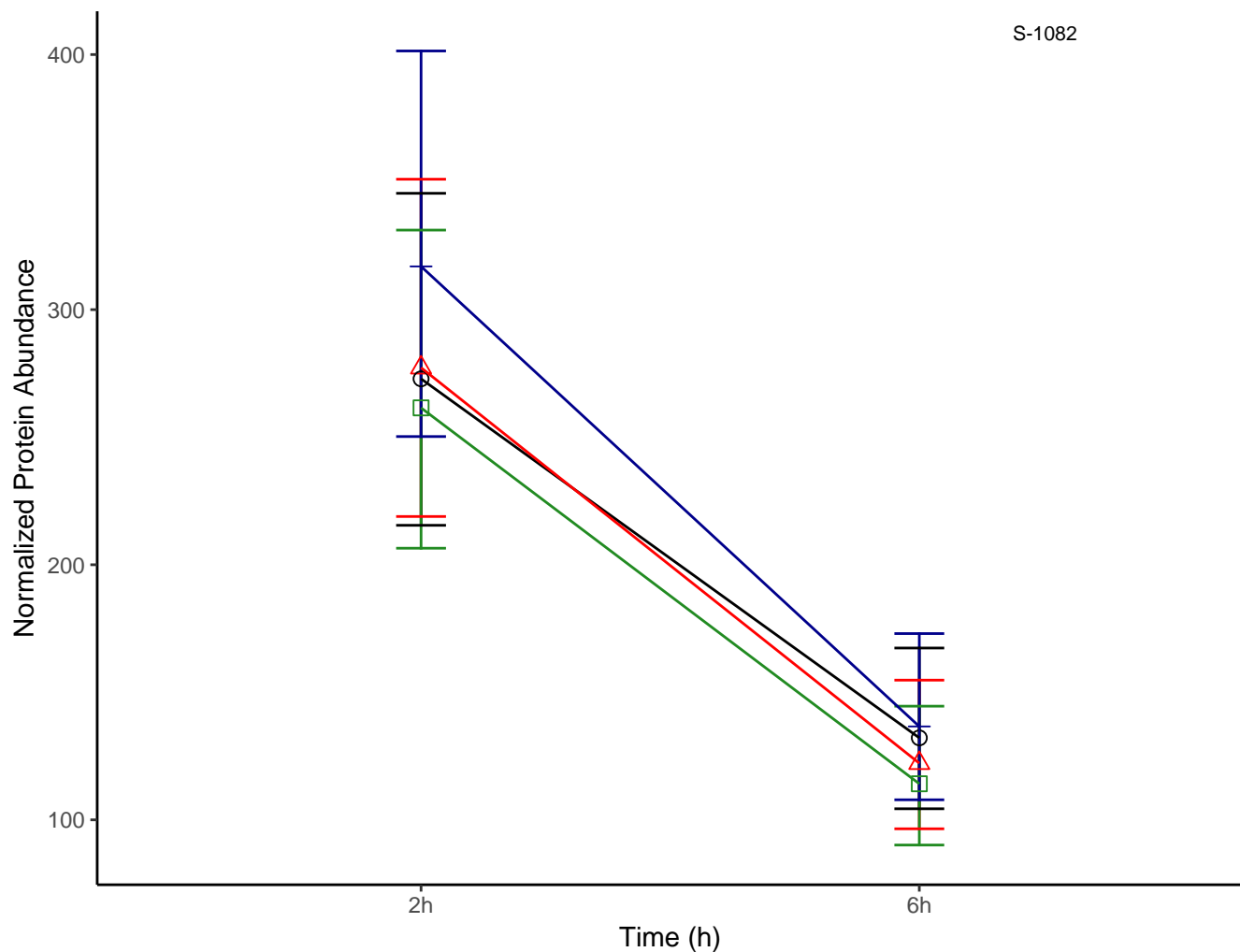
S-1081



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DHPS\_STAAM

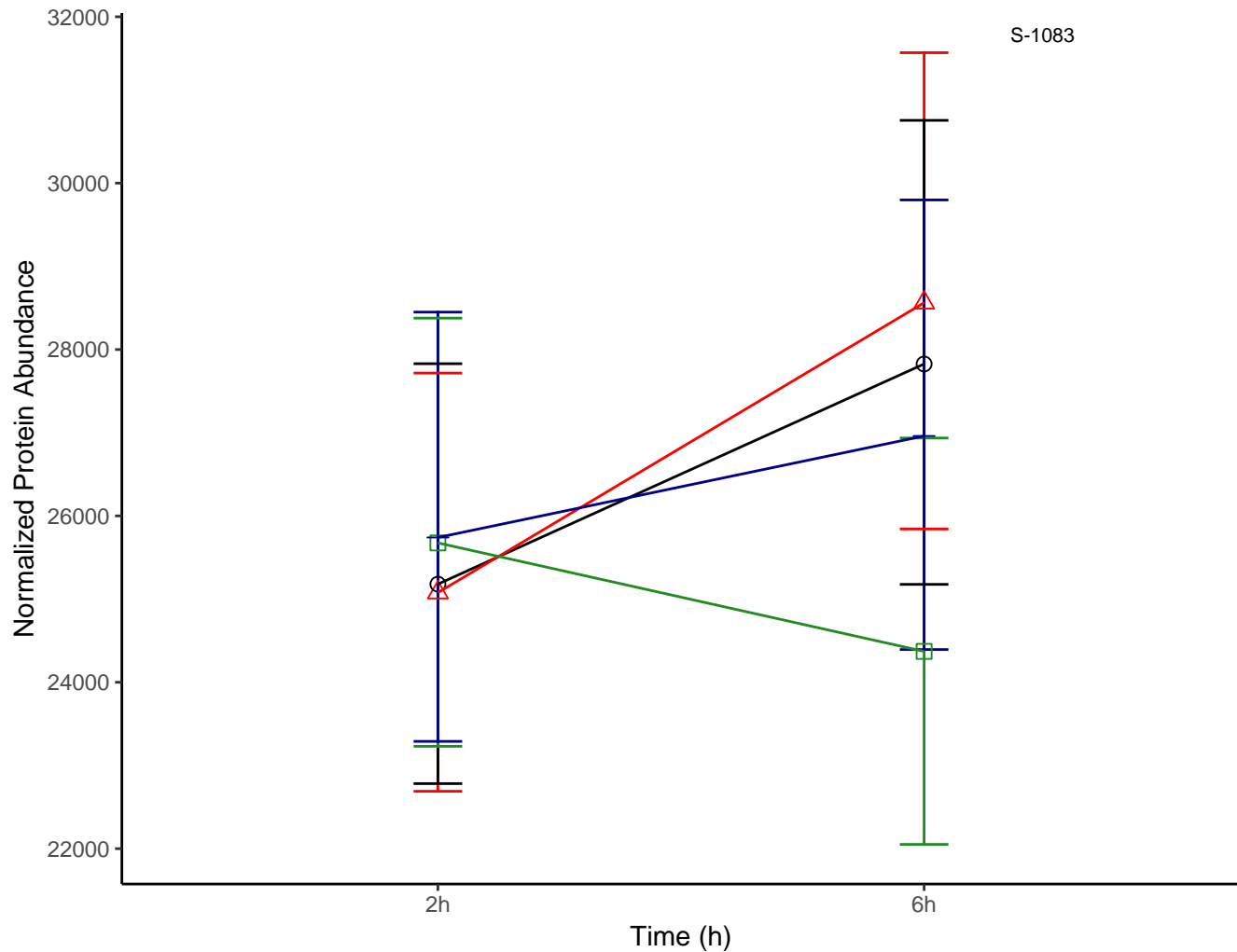
S-1082



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DLDH\_STAAM

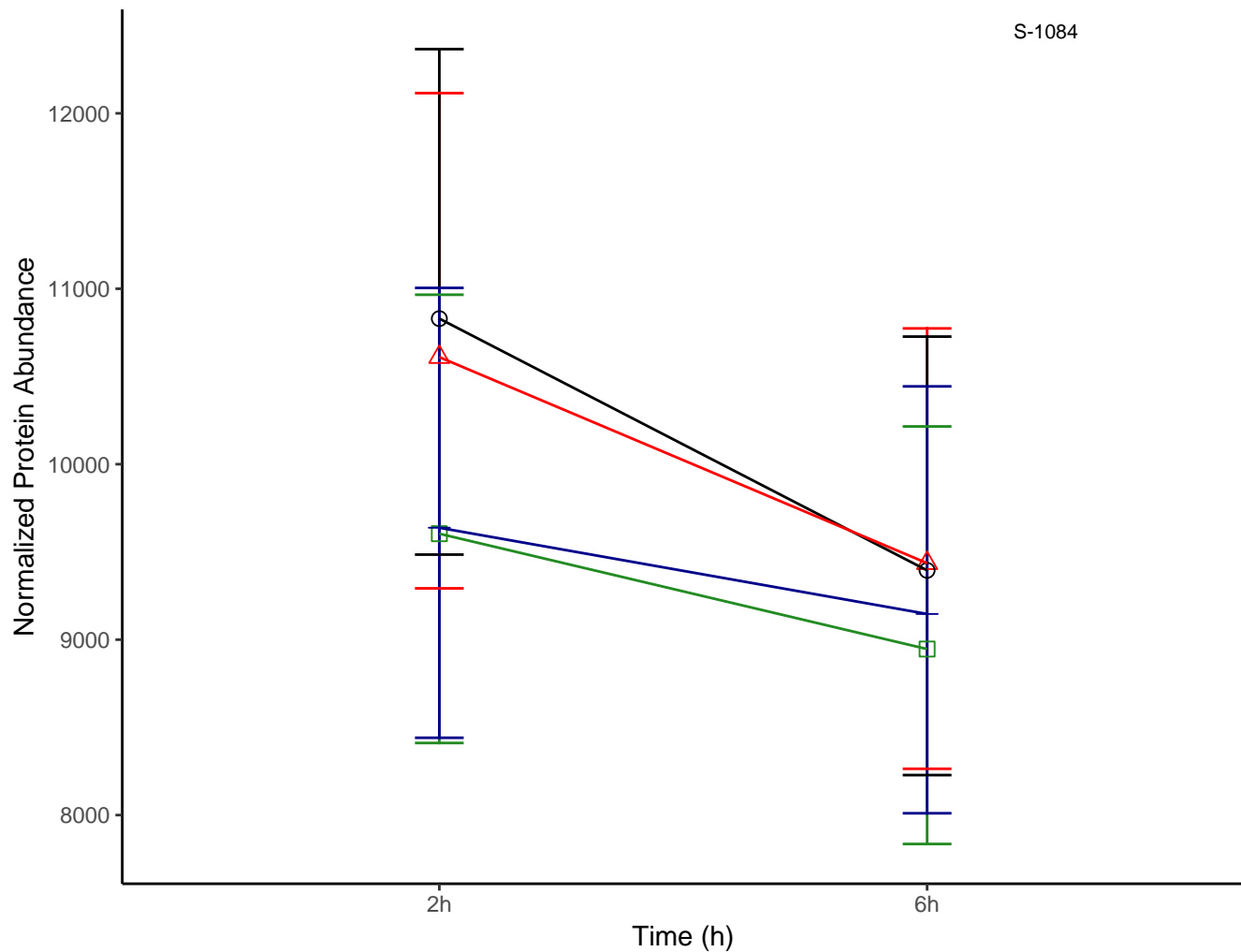
S-1083



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DLTA\_STAAM

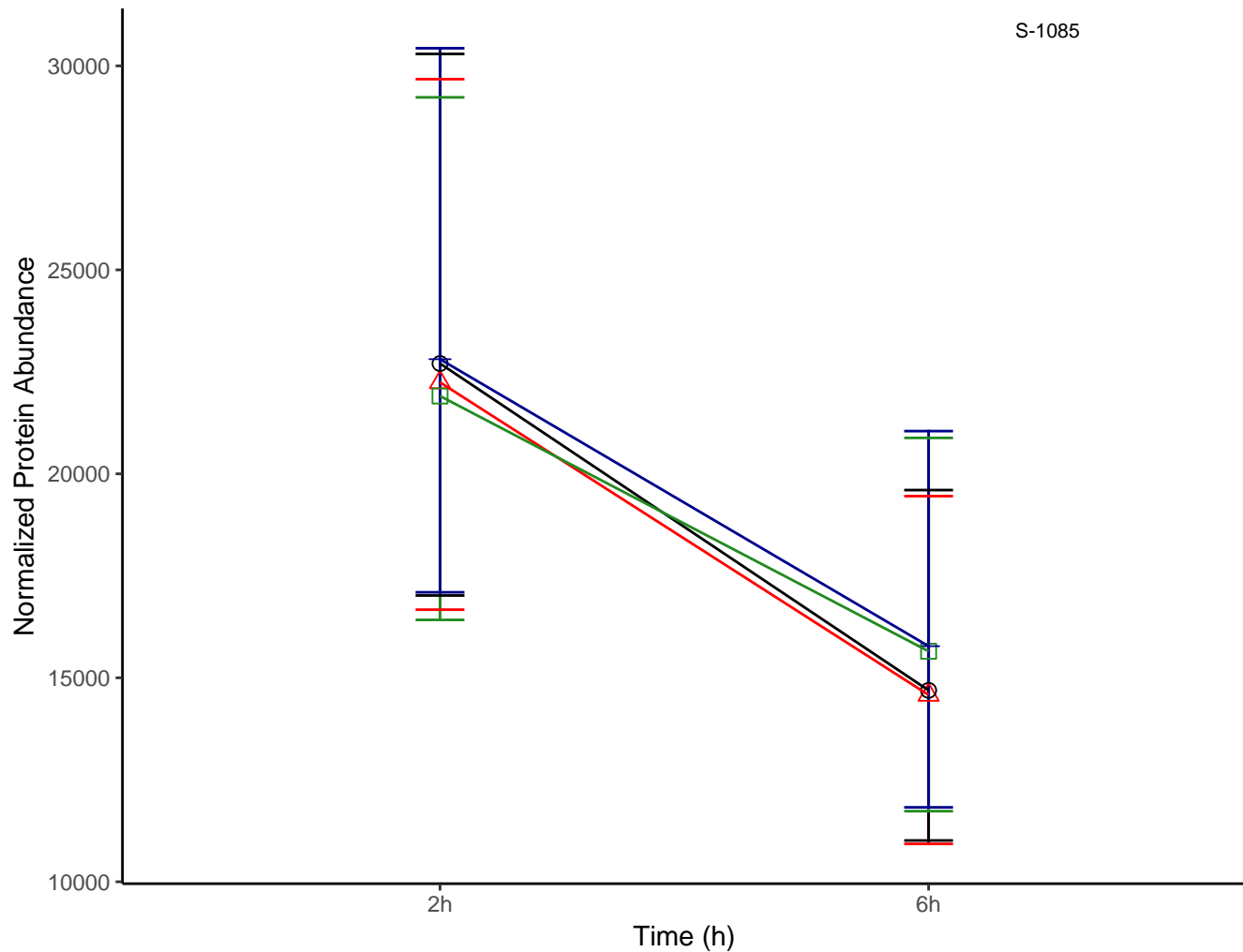
S-1084



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DLTC\_STAAM

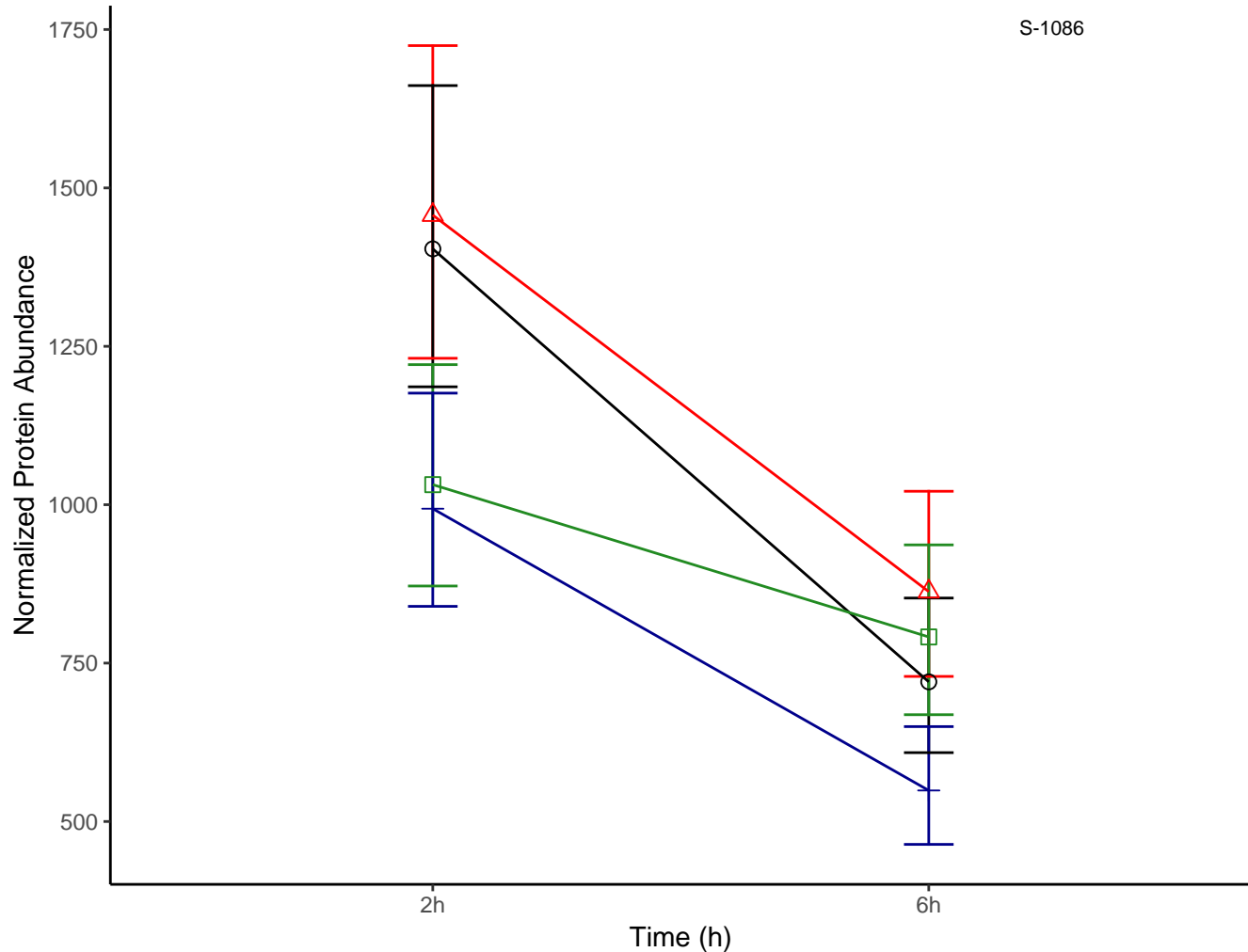
S-1085



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DNAA\_STAAM

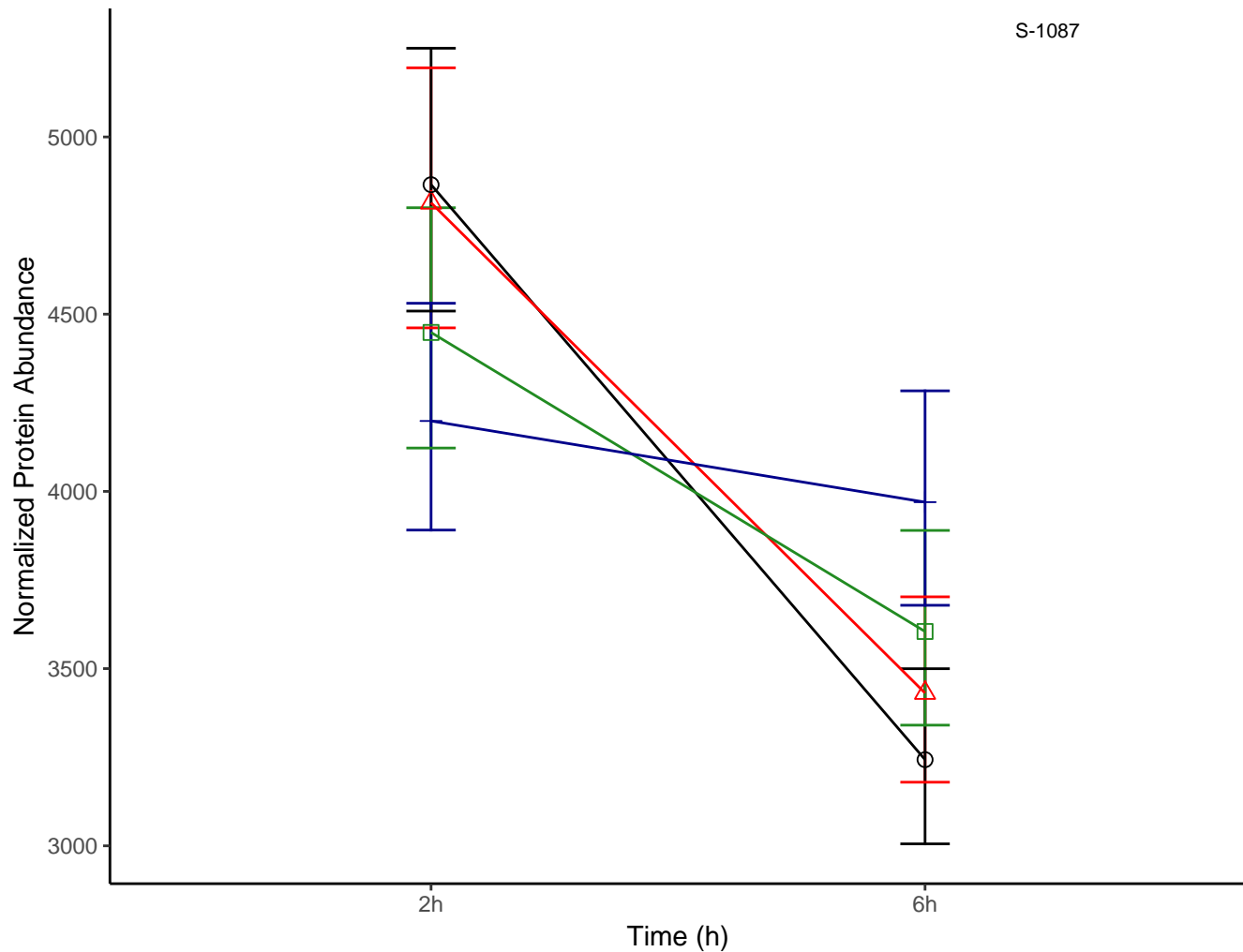
S-1086



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DNAG\_STAAM

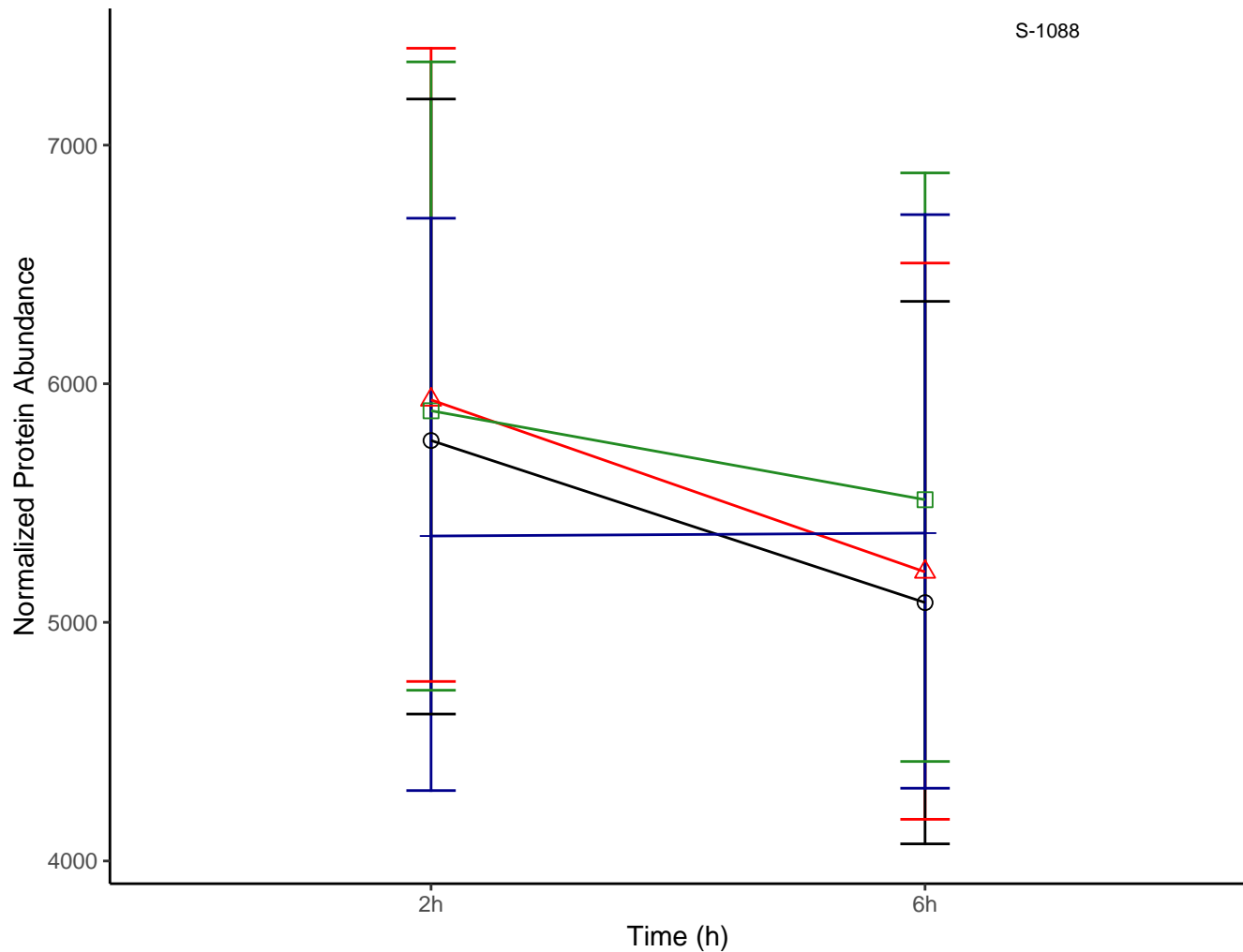
S-1087



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DNAJ\_STAAM

S-1088

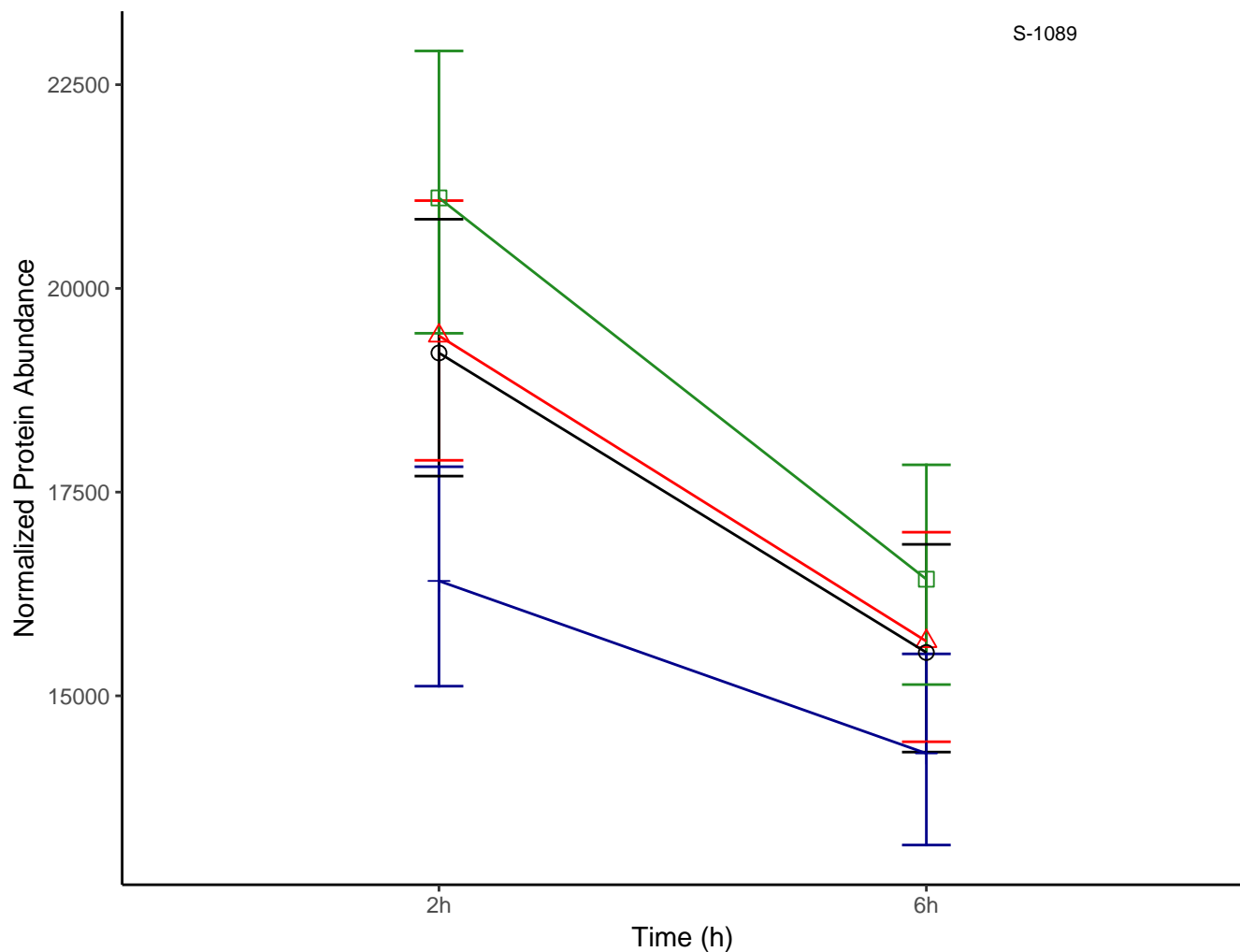


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# DNAK\_STAAM

S-1089



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DNLJ\_STAAM

S-1090

Normalized Protein Abundance

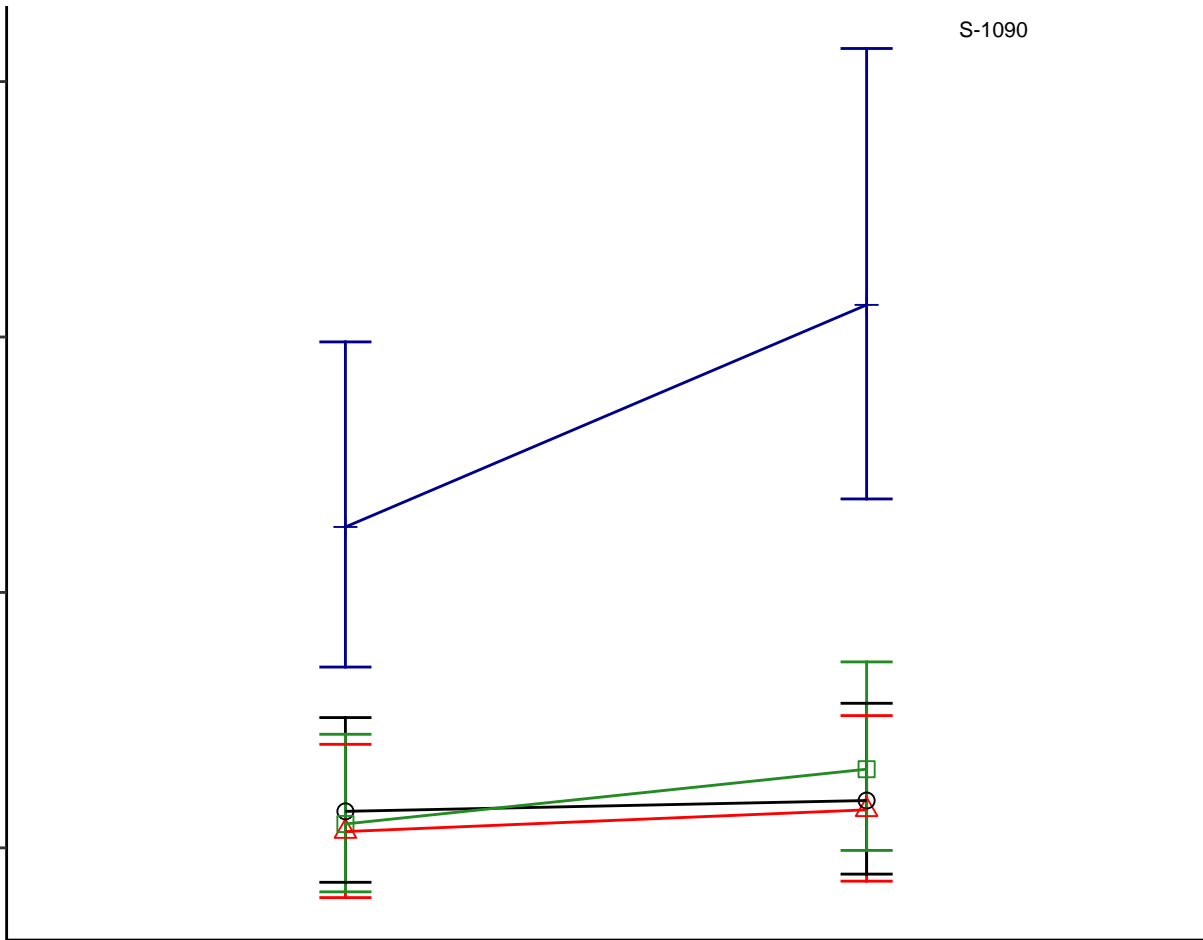
16000  
12000  
8000  
4000

2h

6h

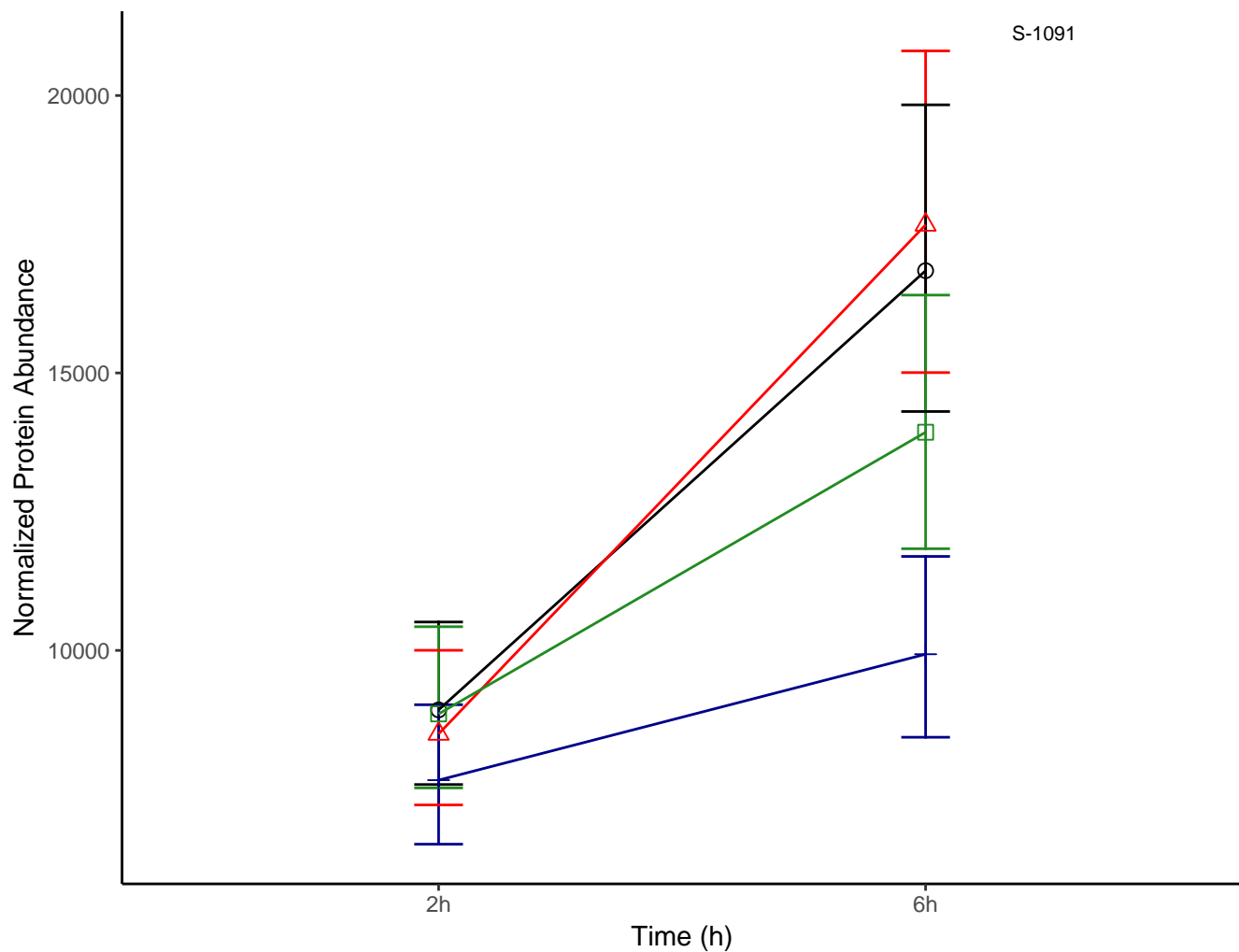
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# DPO3B\_STAAM

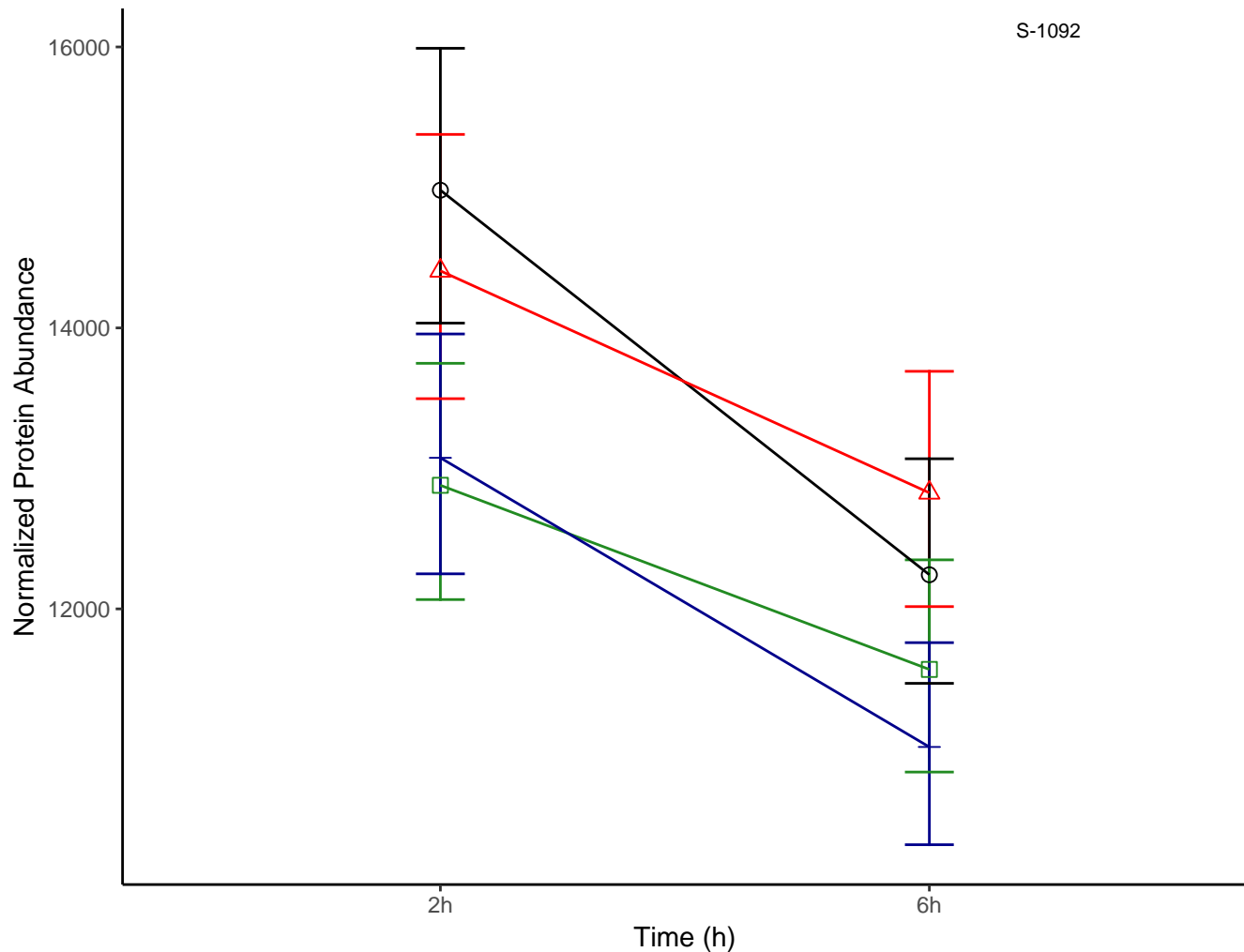
S-1091



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# DPO4\_STAAM

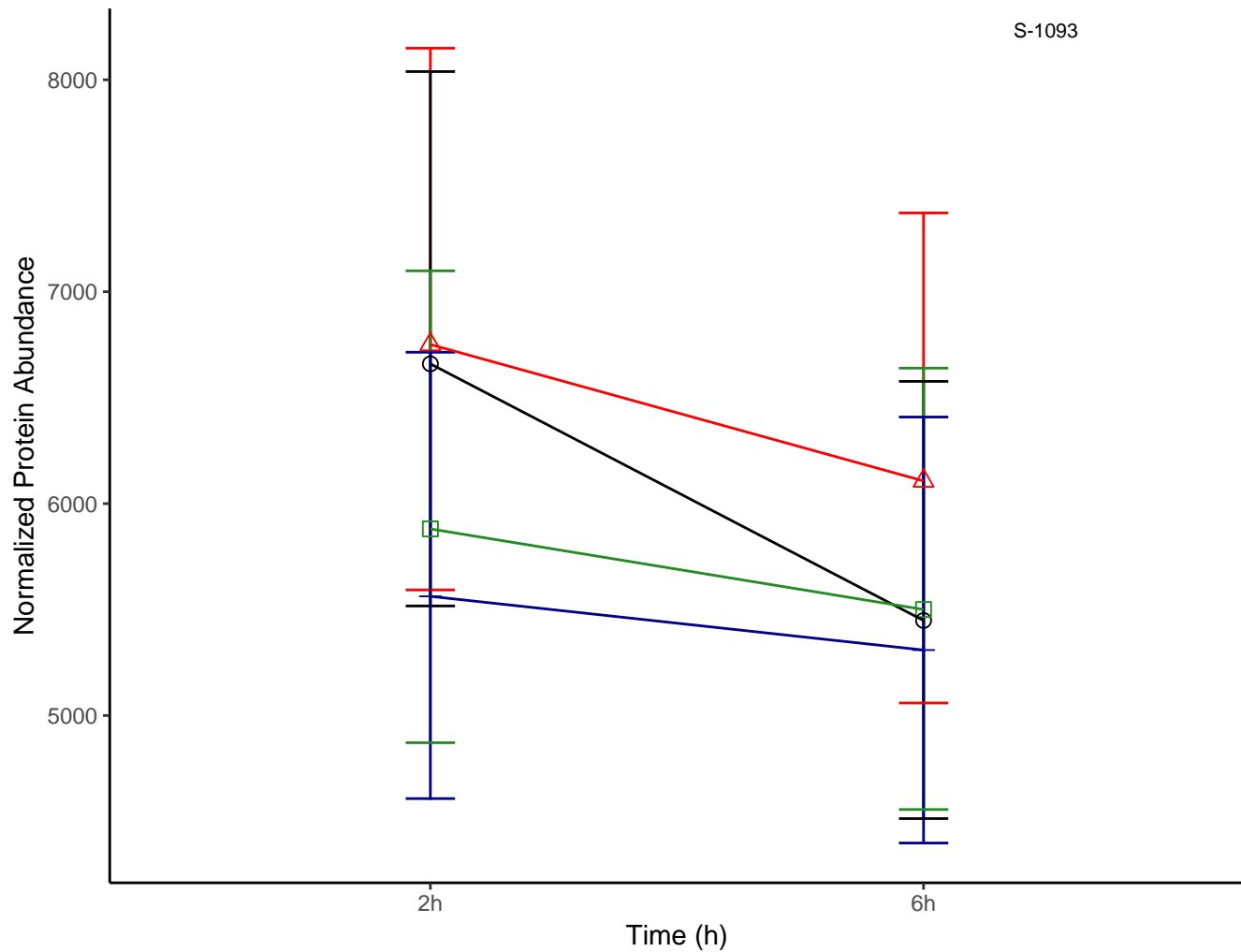
S-1092



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DTD\_STAAM

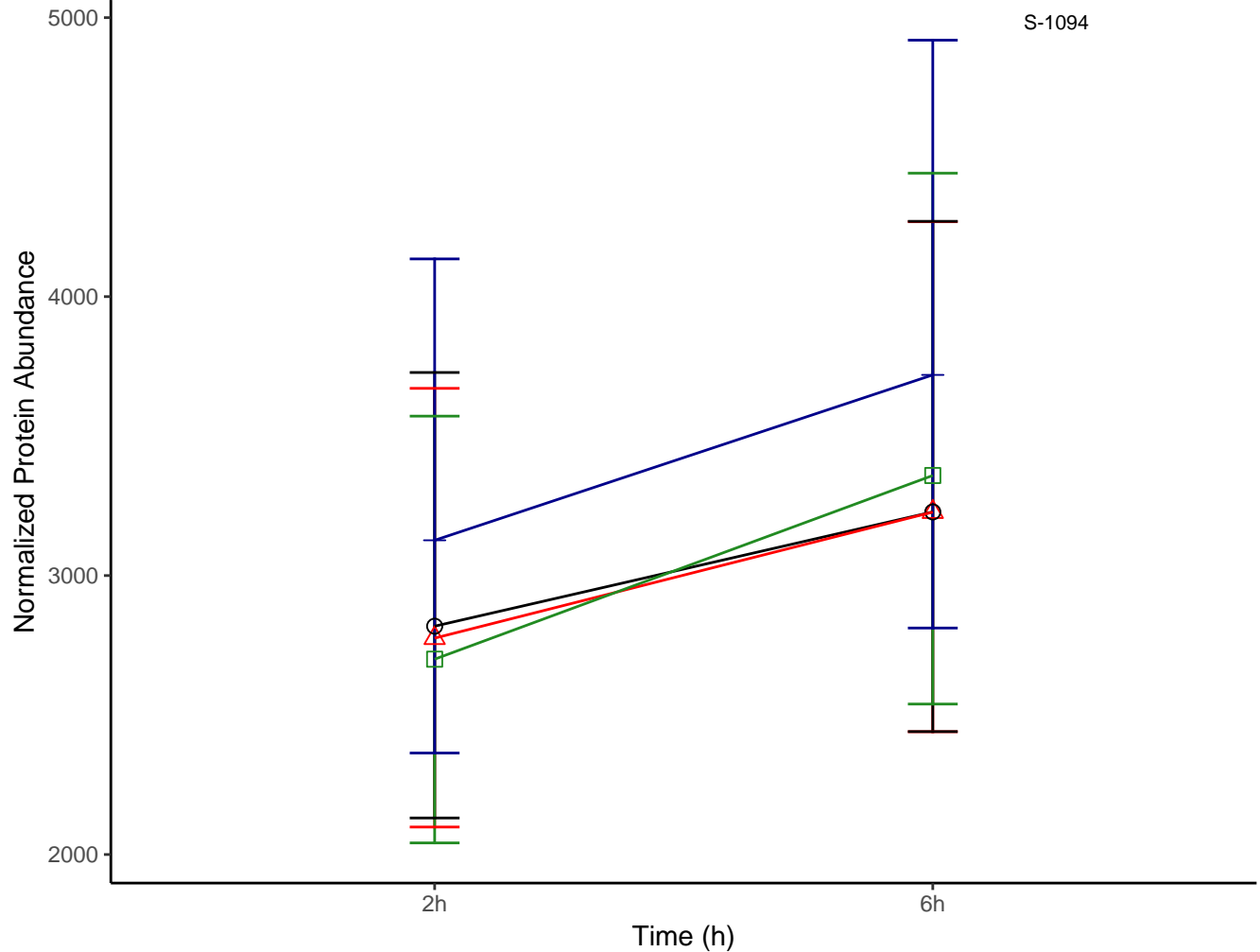
S-1093



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DYR\_STAAM

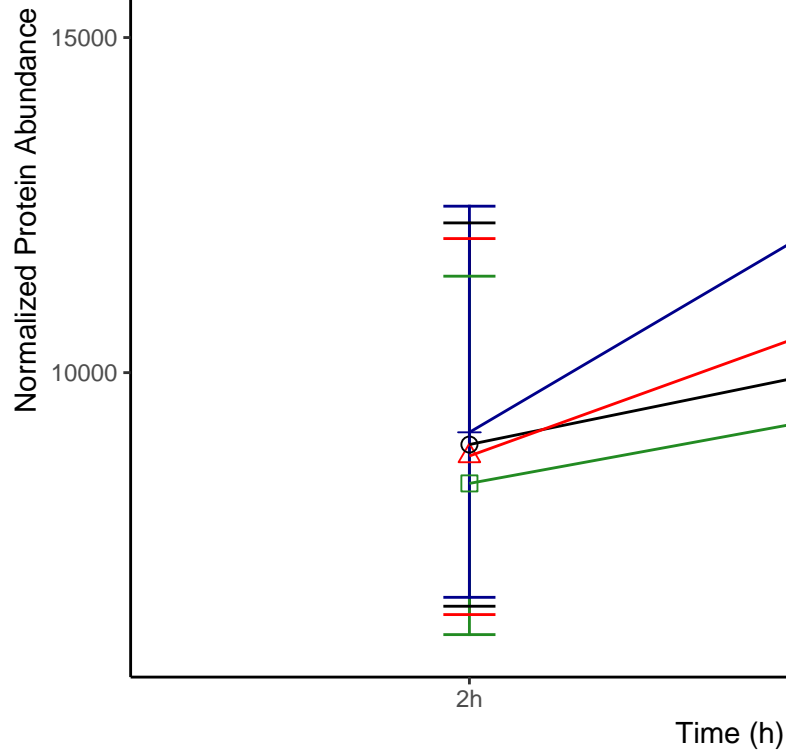
S-1094



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EBPS\_STAAM

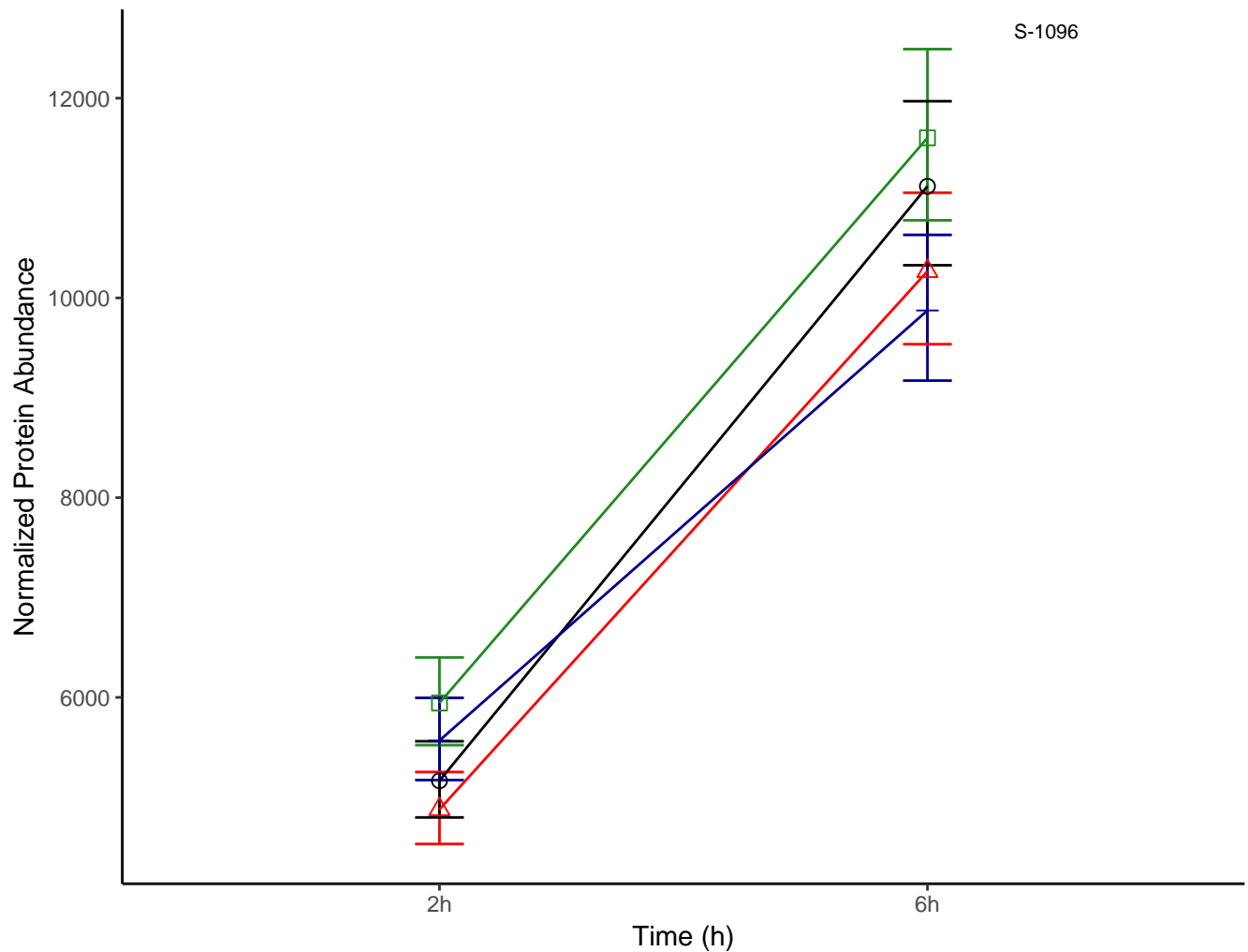
S-1095



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ECFA1\_STAAM

S-1096

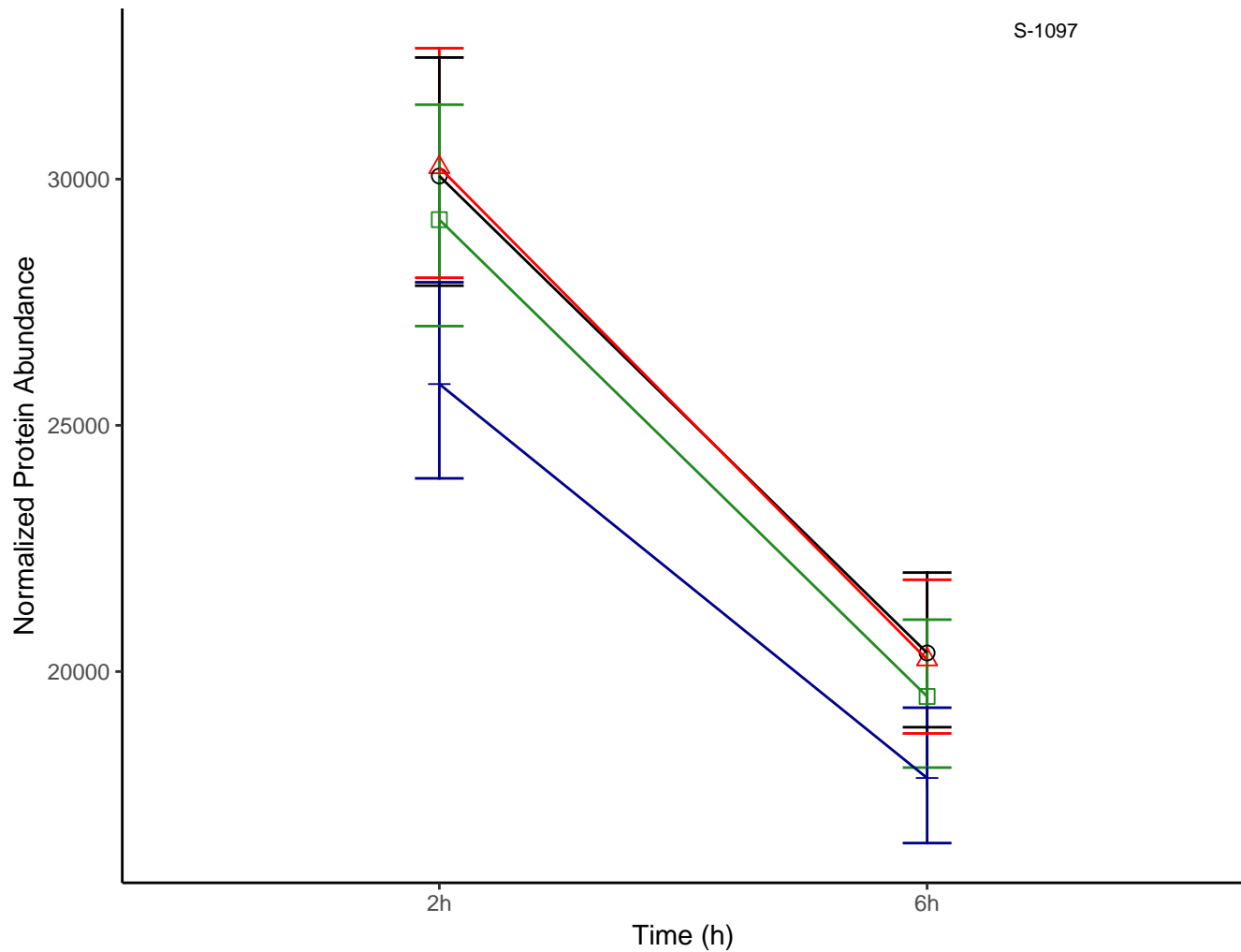


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# EFG\_STAAM

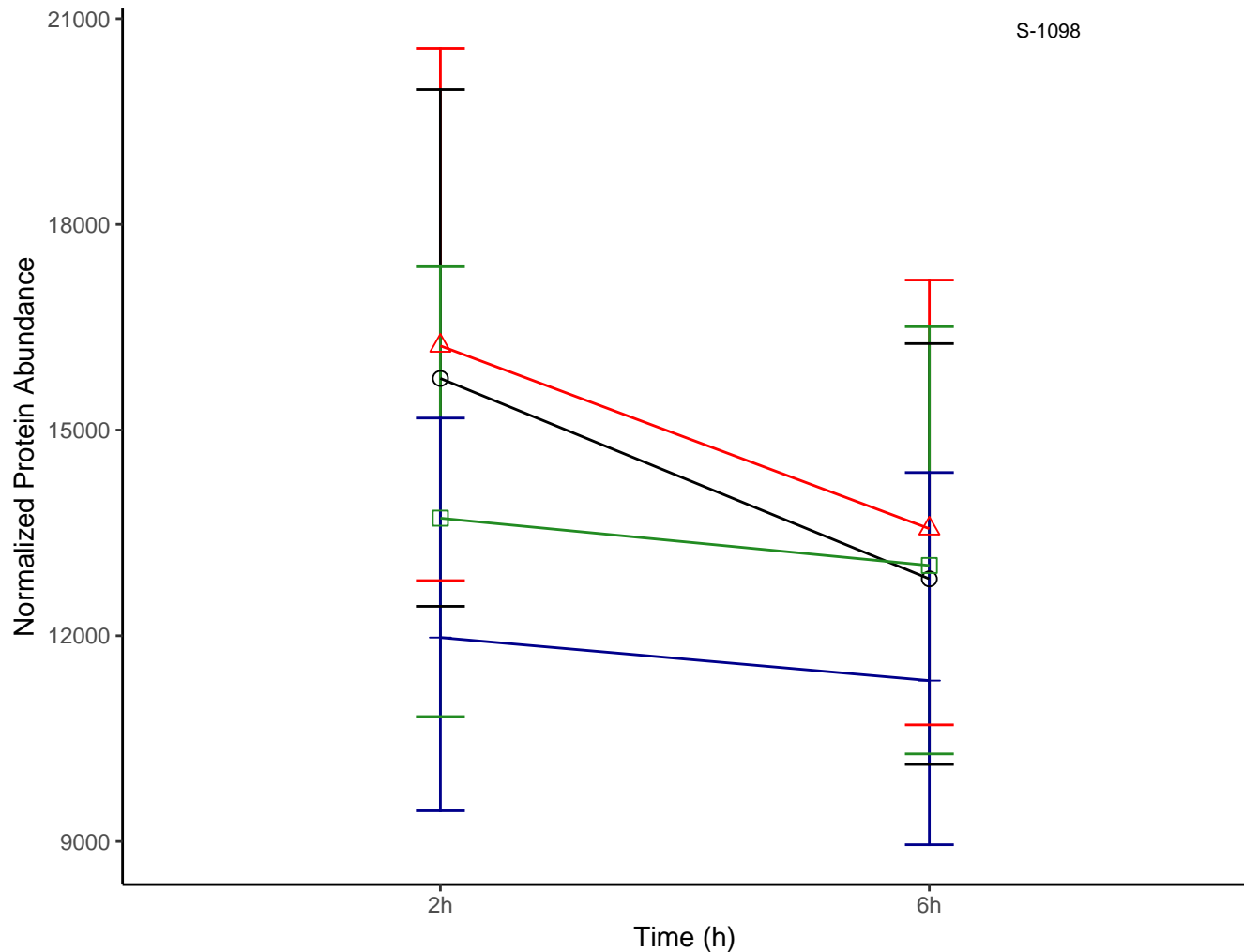
S-1097



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EFP\_STAAM

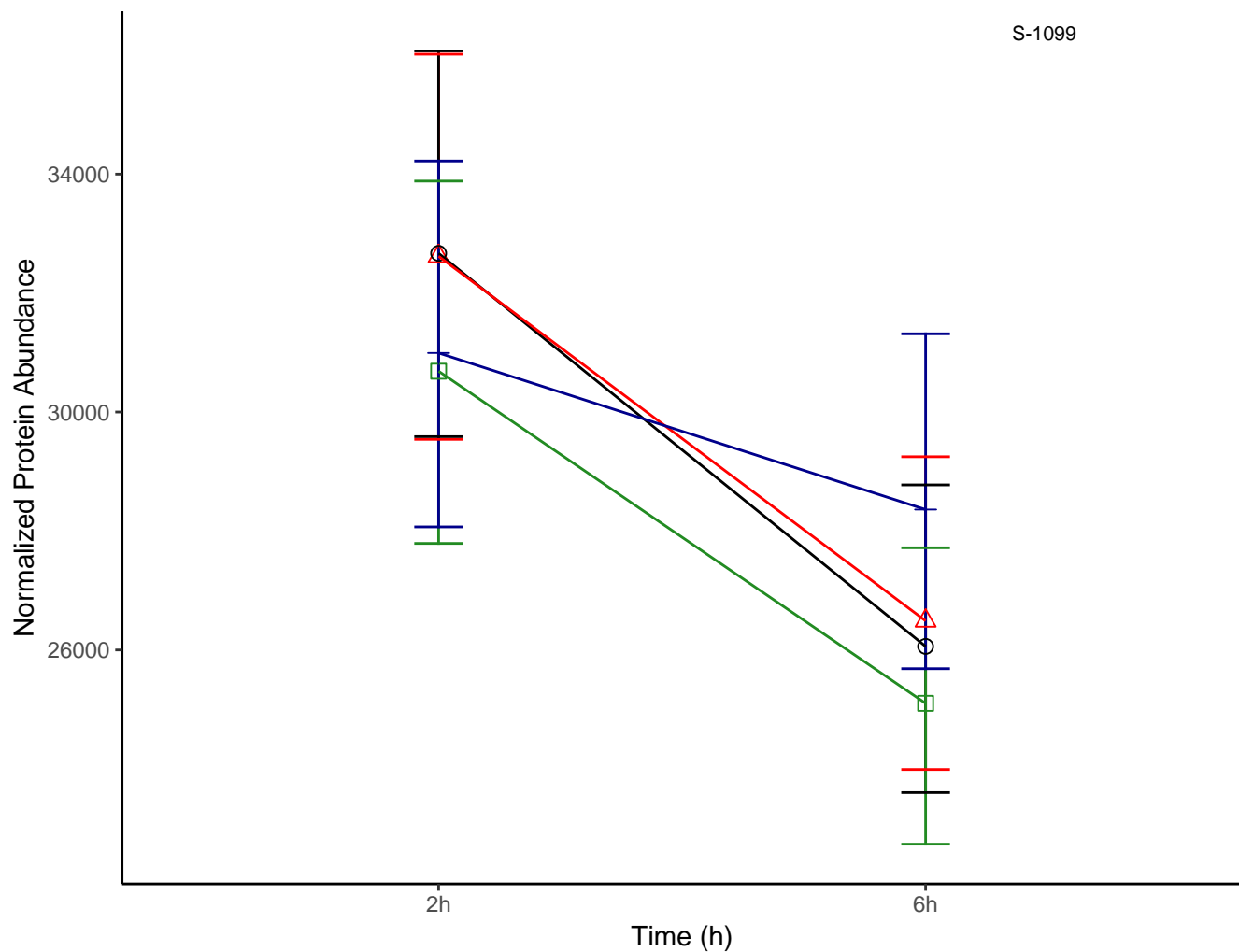
S-1098



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# EFTS\_STAAM

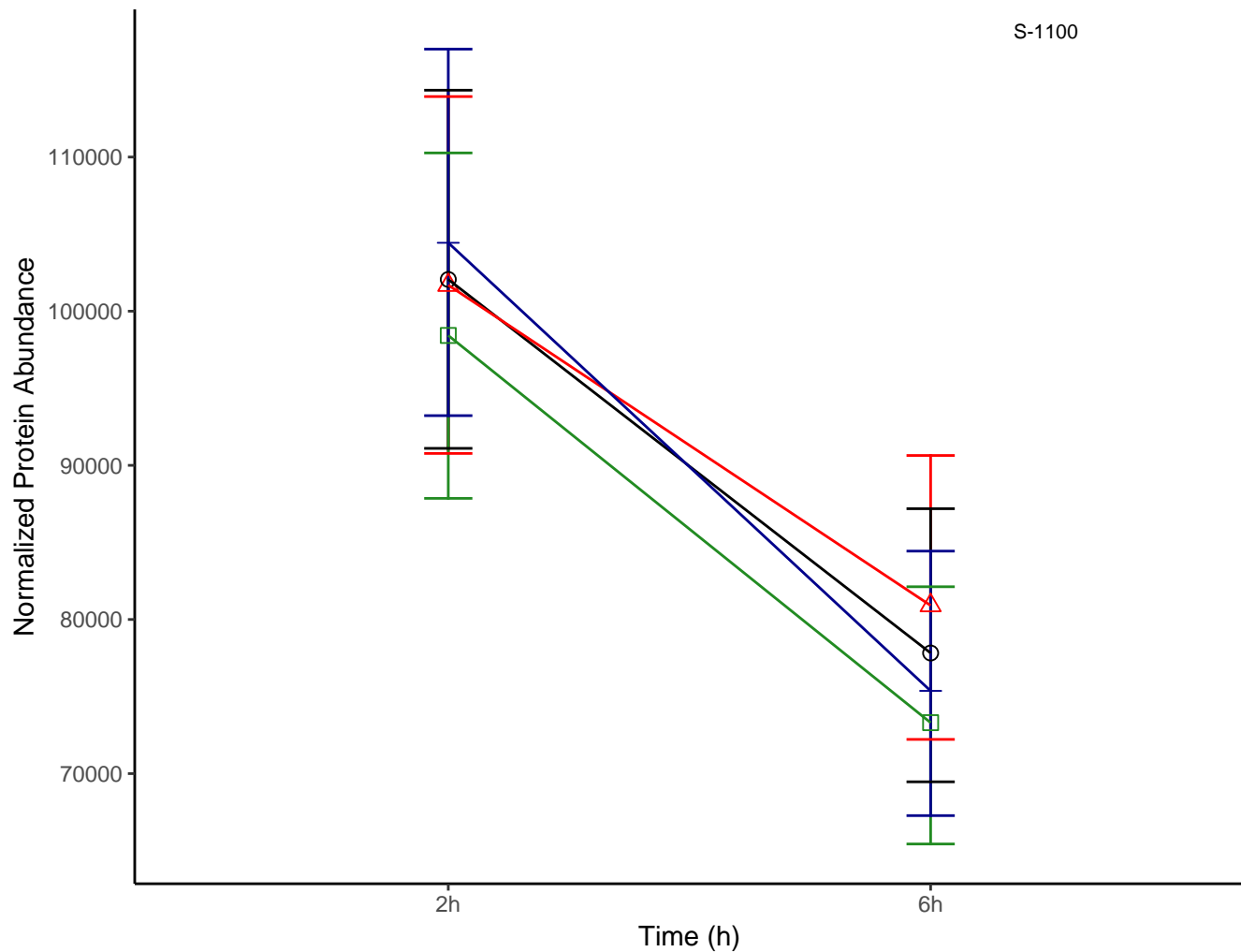
S-1099



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## EFTU\_STAAM

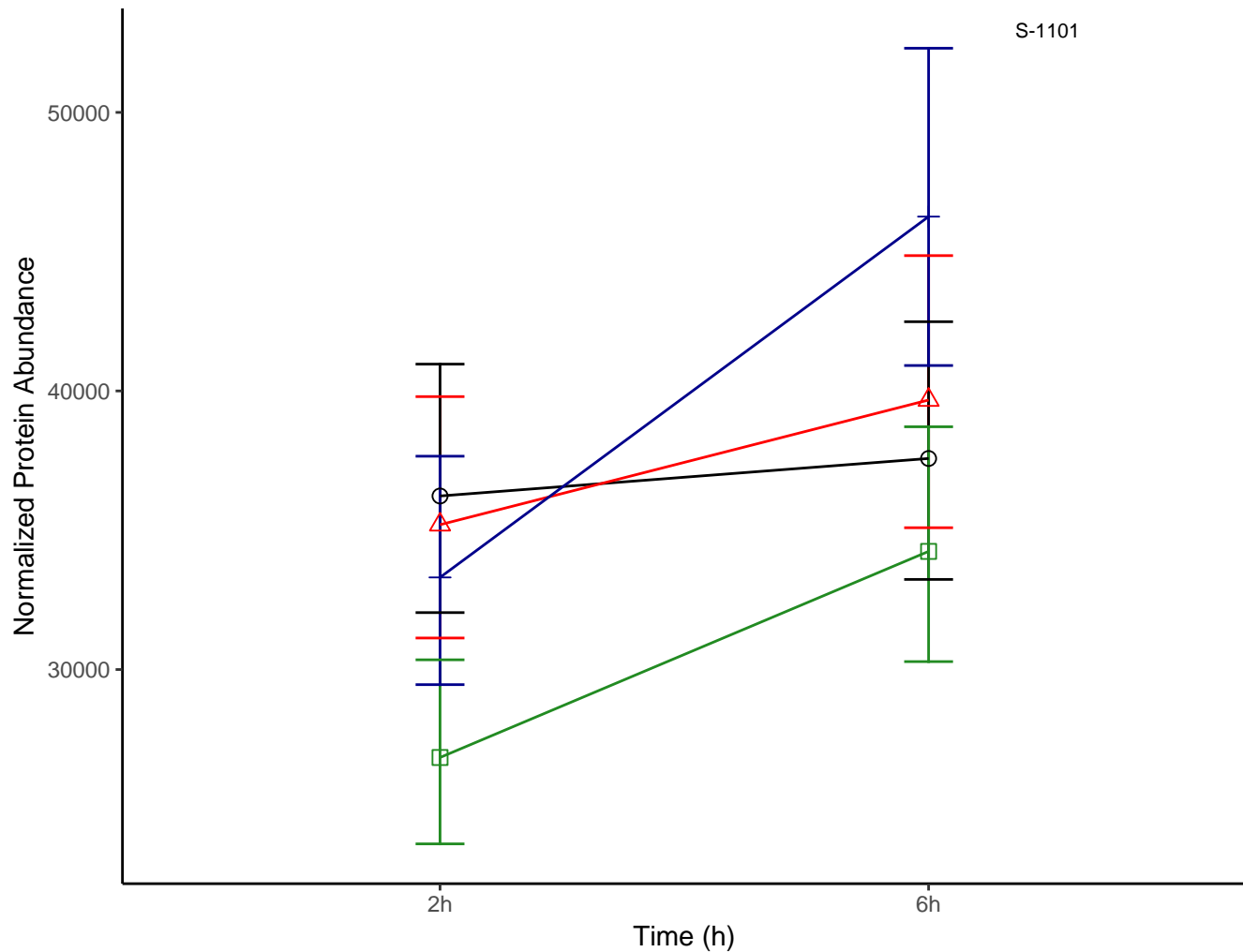
S-1100



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ENO\_STAAM

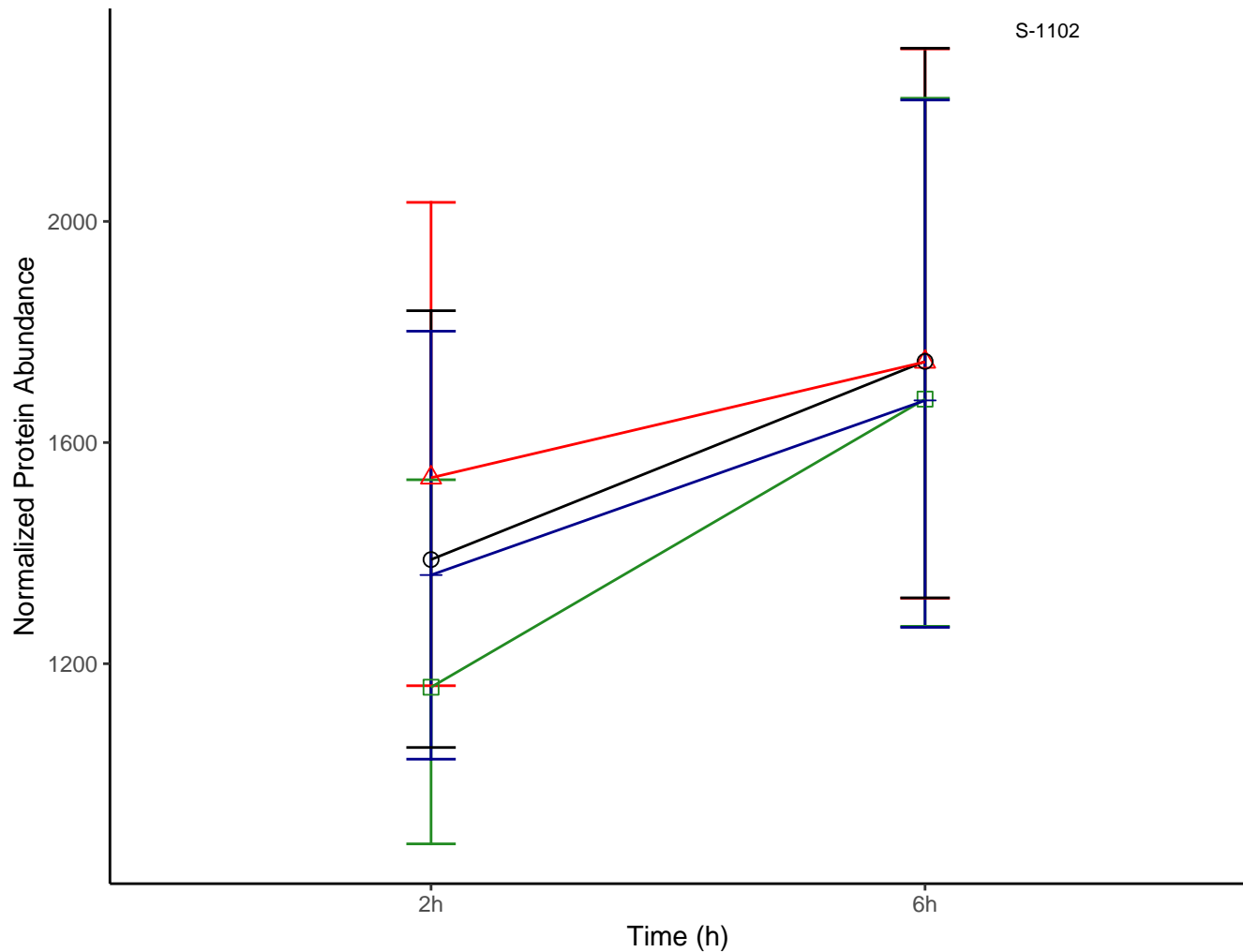
S-1101



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ERA\_STAAM

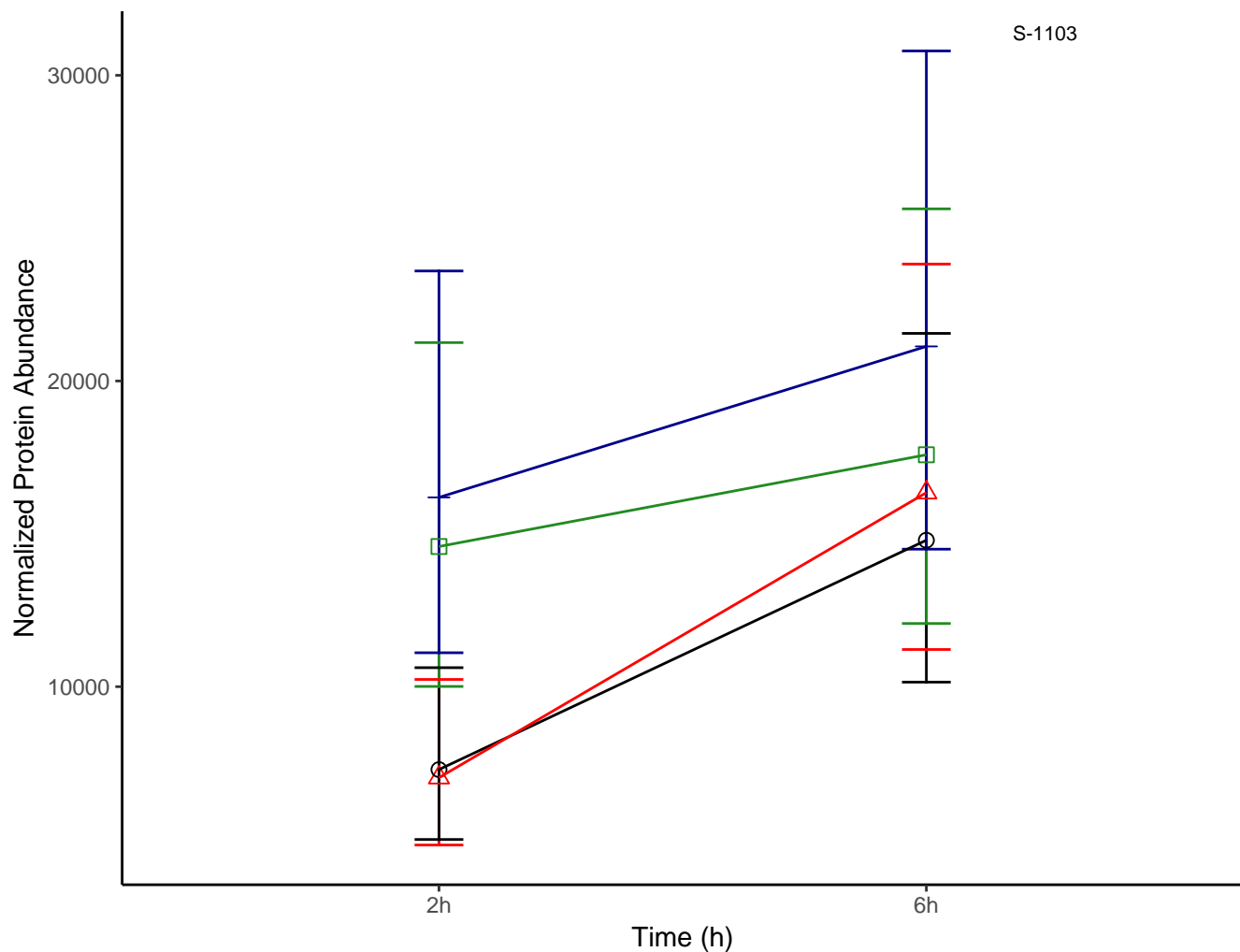
S-1102



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## ERMA\_STAAM

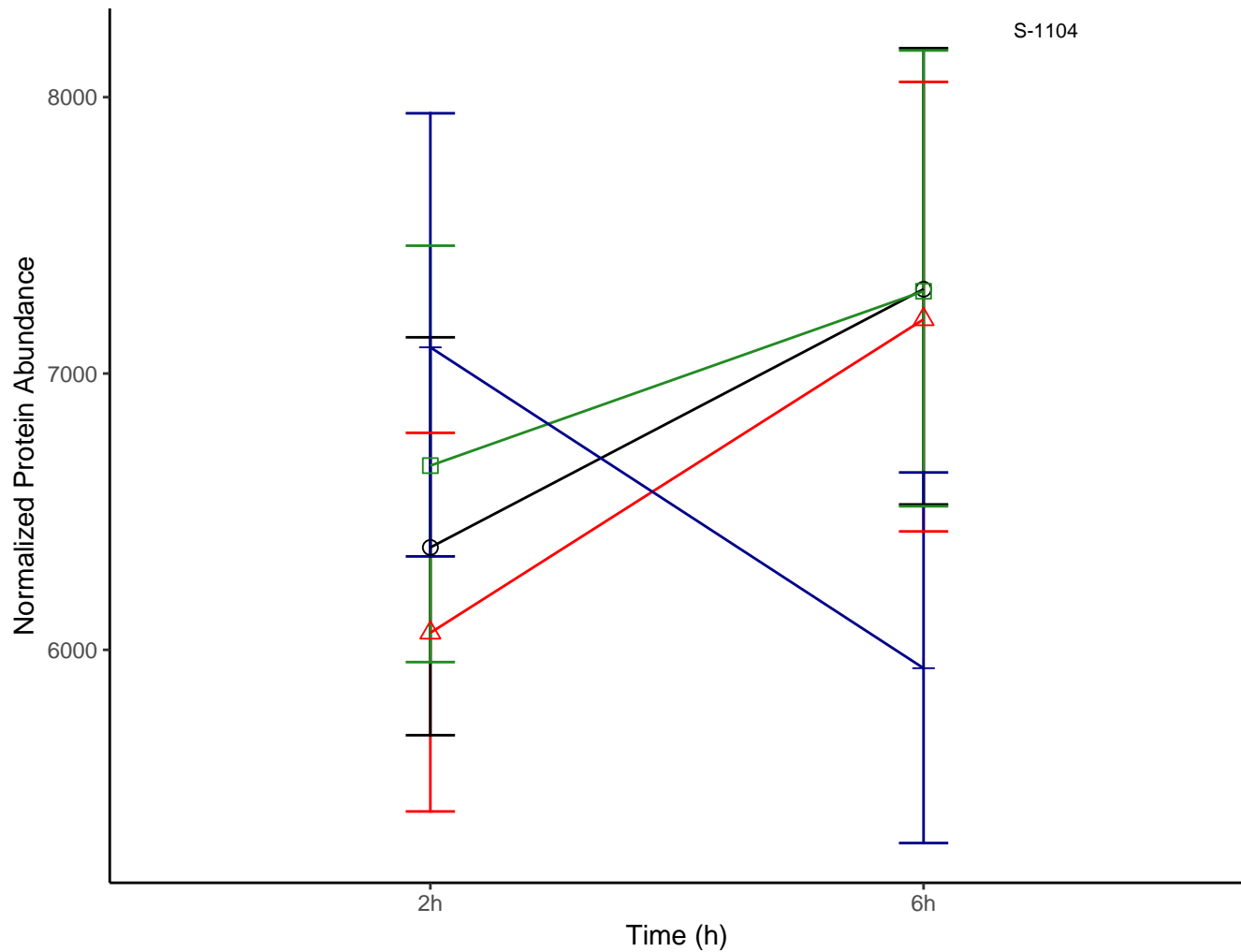
S-1103



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ESSA\_STAAM

S-1104

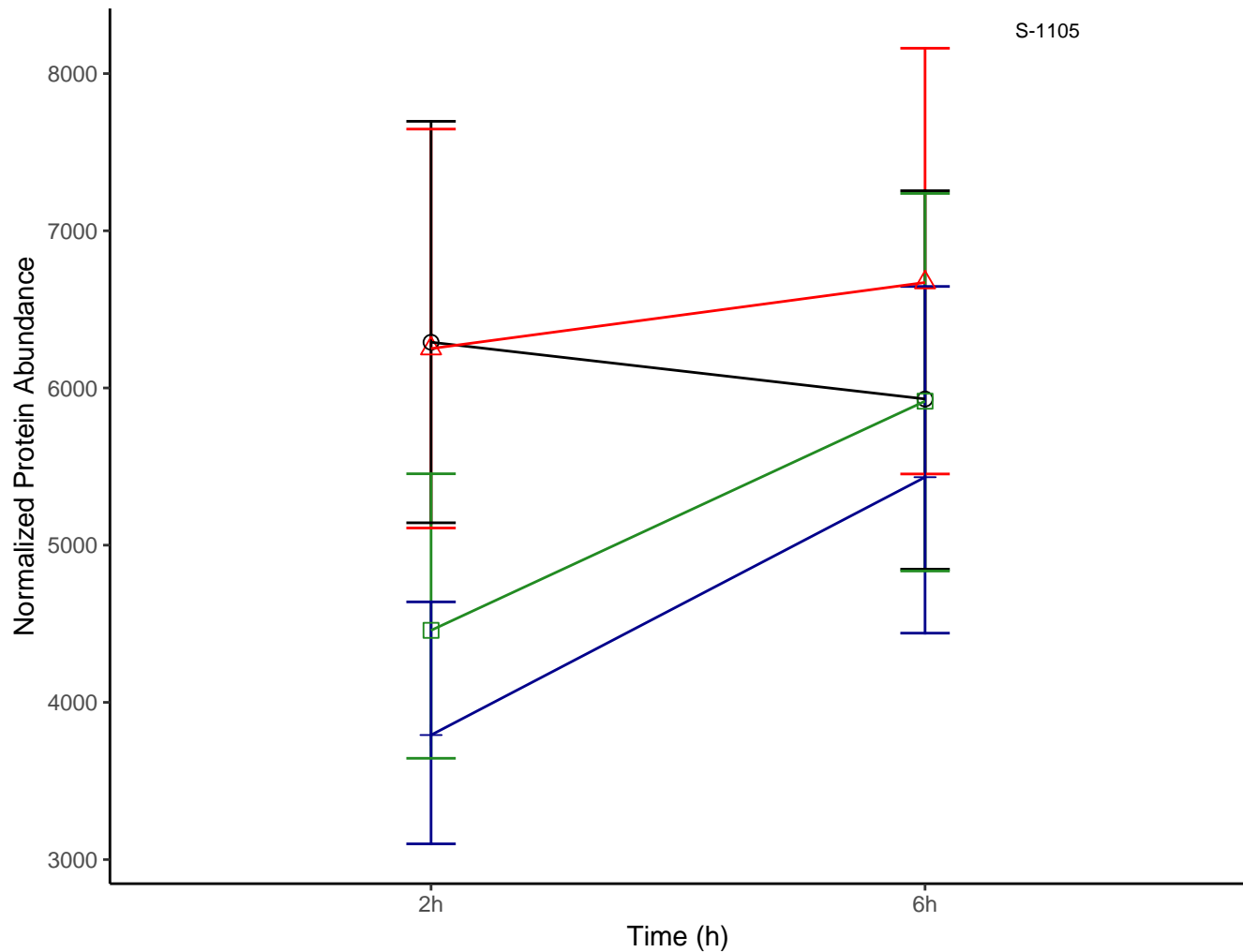


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ESXA\_STAAM

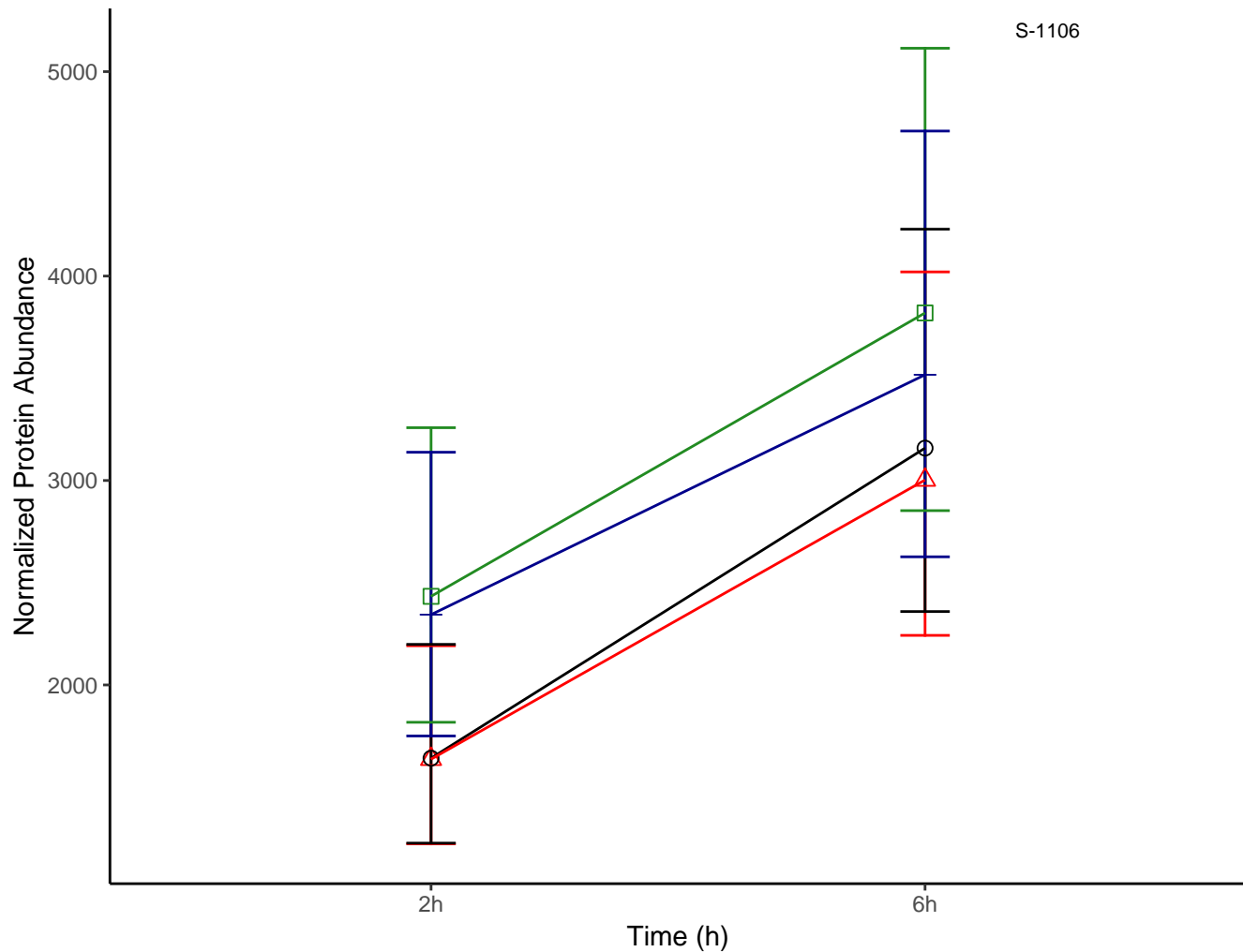
S-1105



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# EX7L\_STAAM

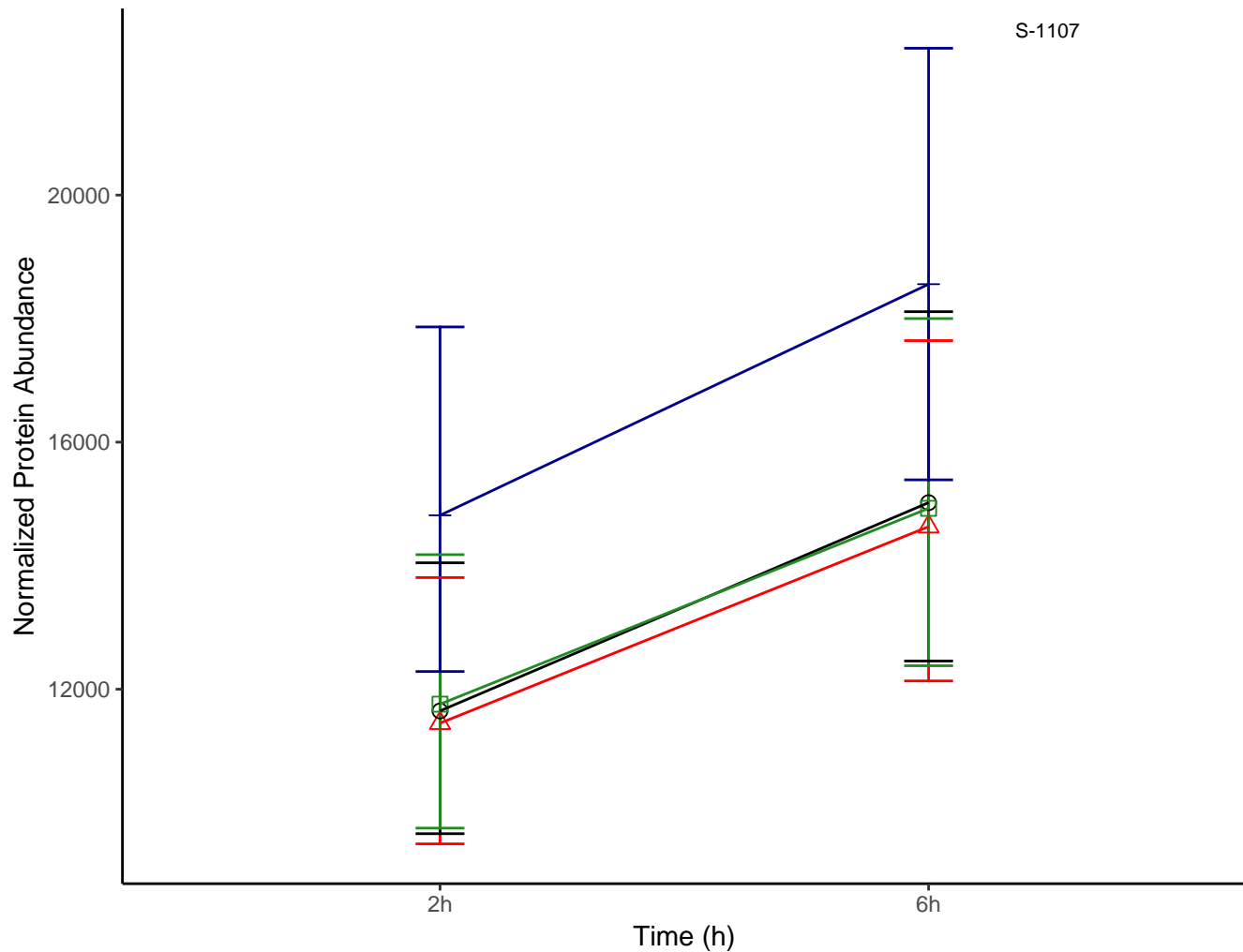
S-1106



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## EZRA\_STAAM

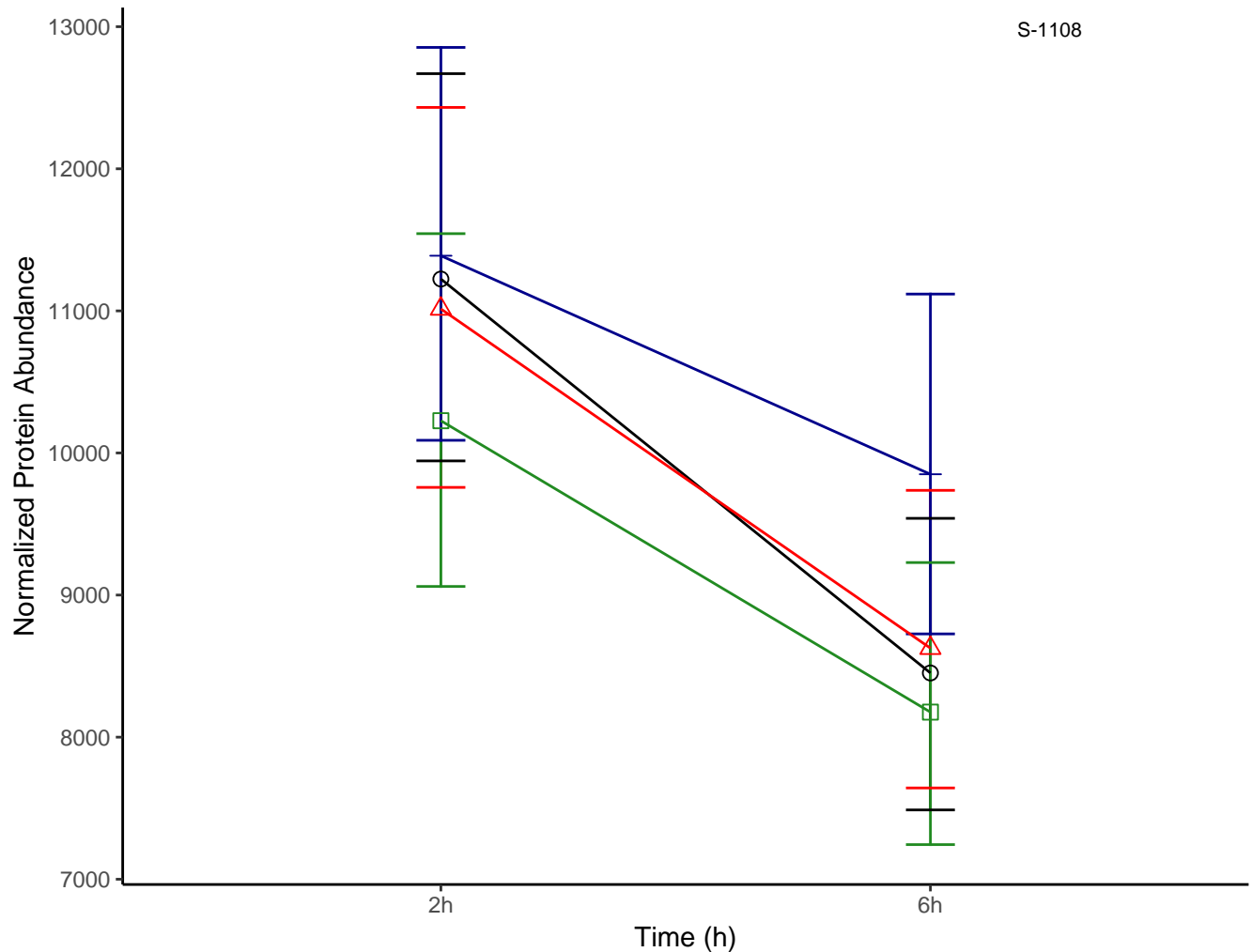
S-1107



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FABD\_STAAM

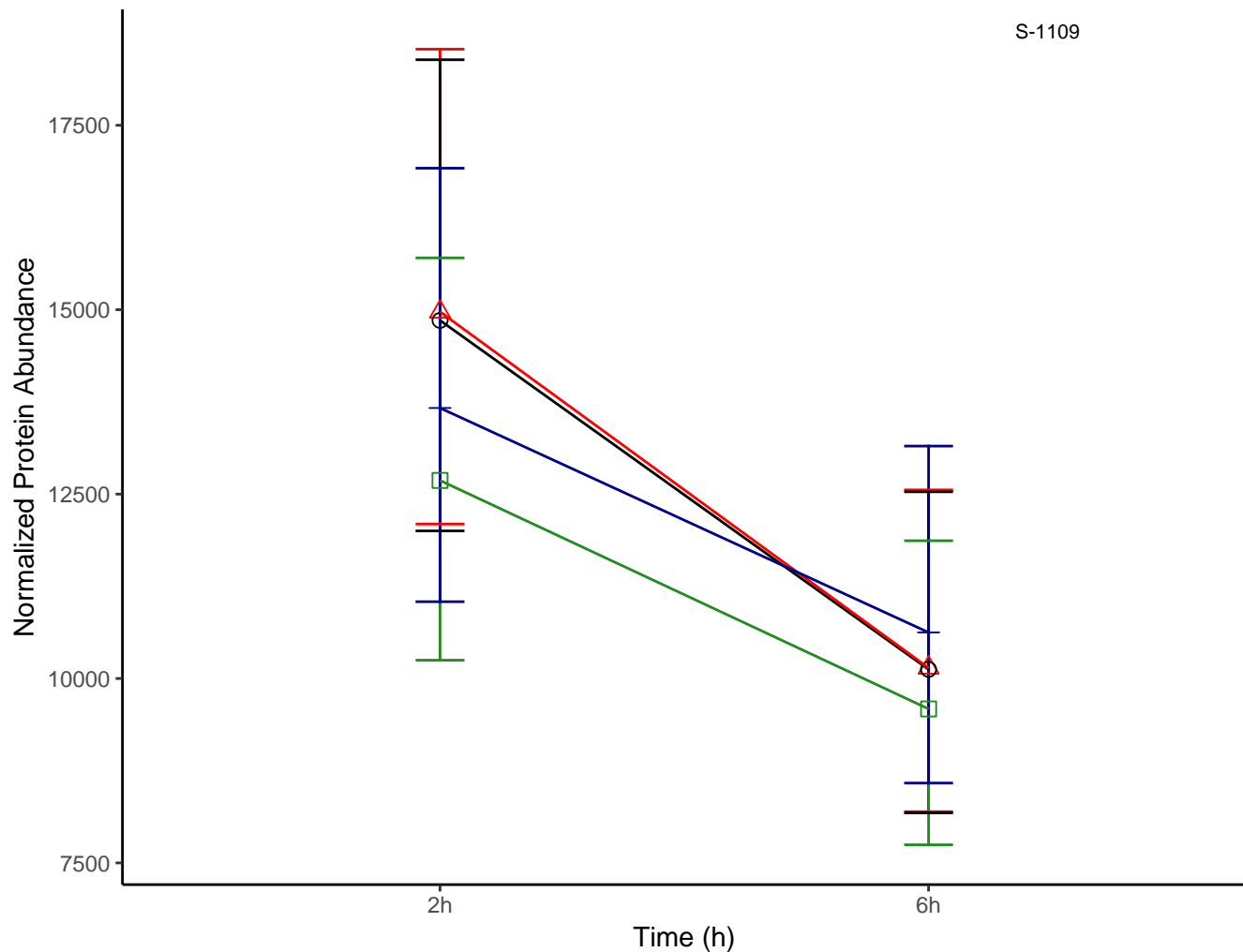
S-1108



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FABF\_STAAM

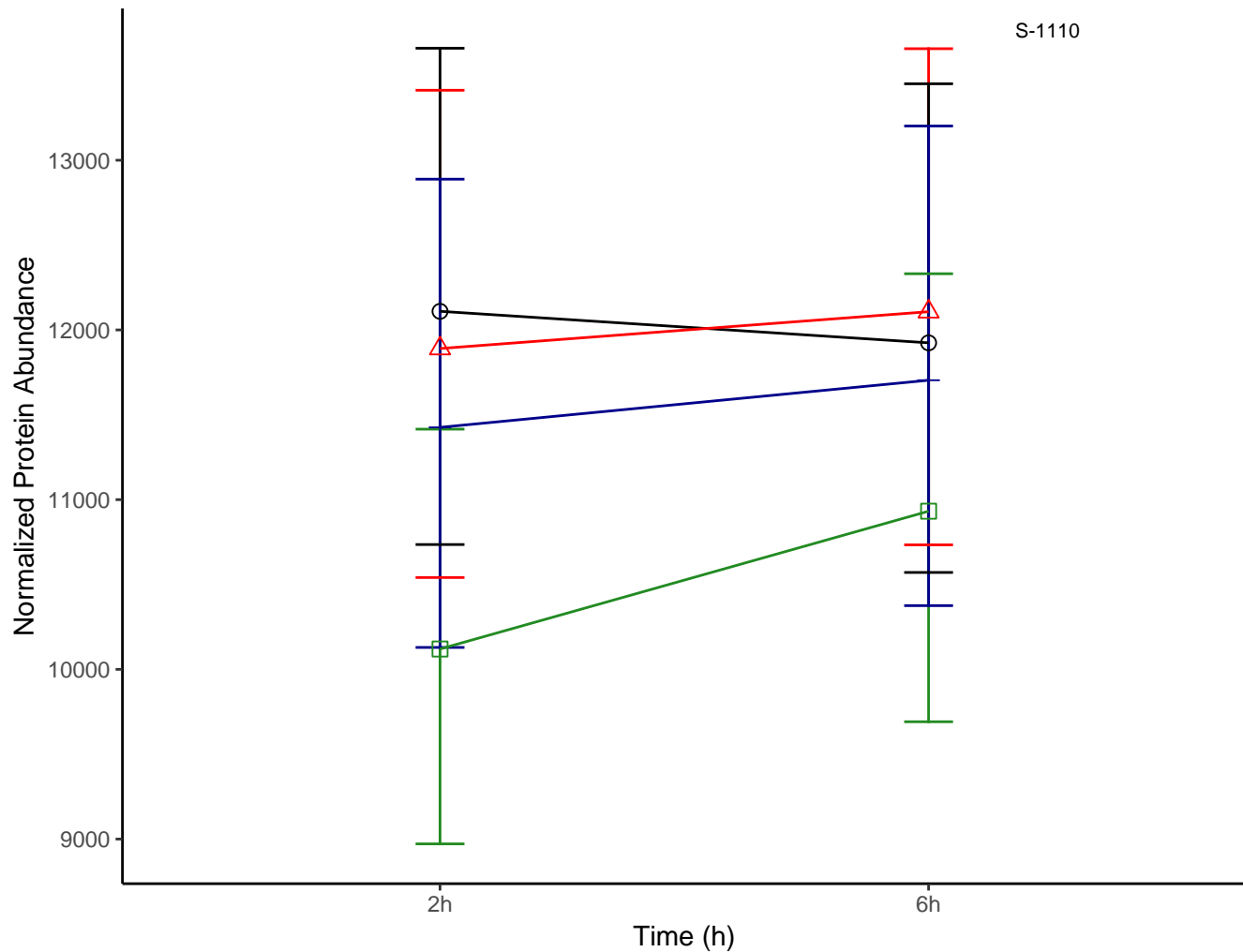
S-1109



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FABG\_STAAM

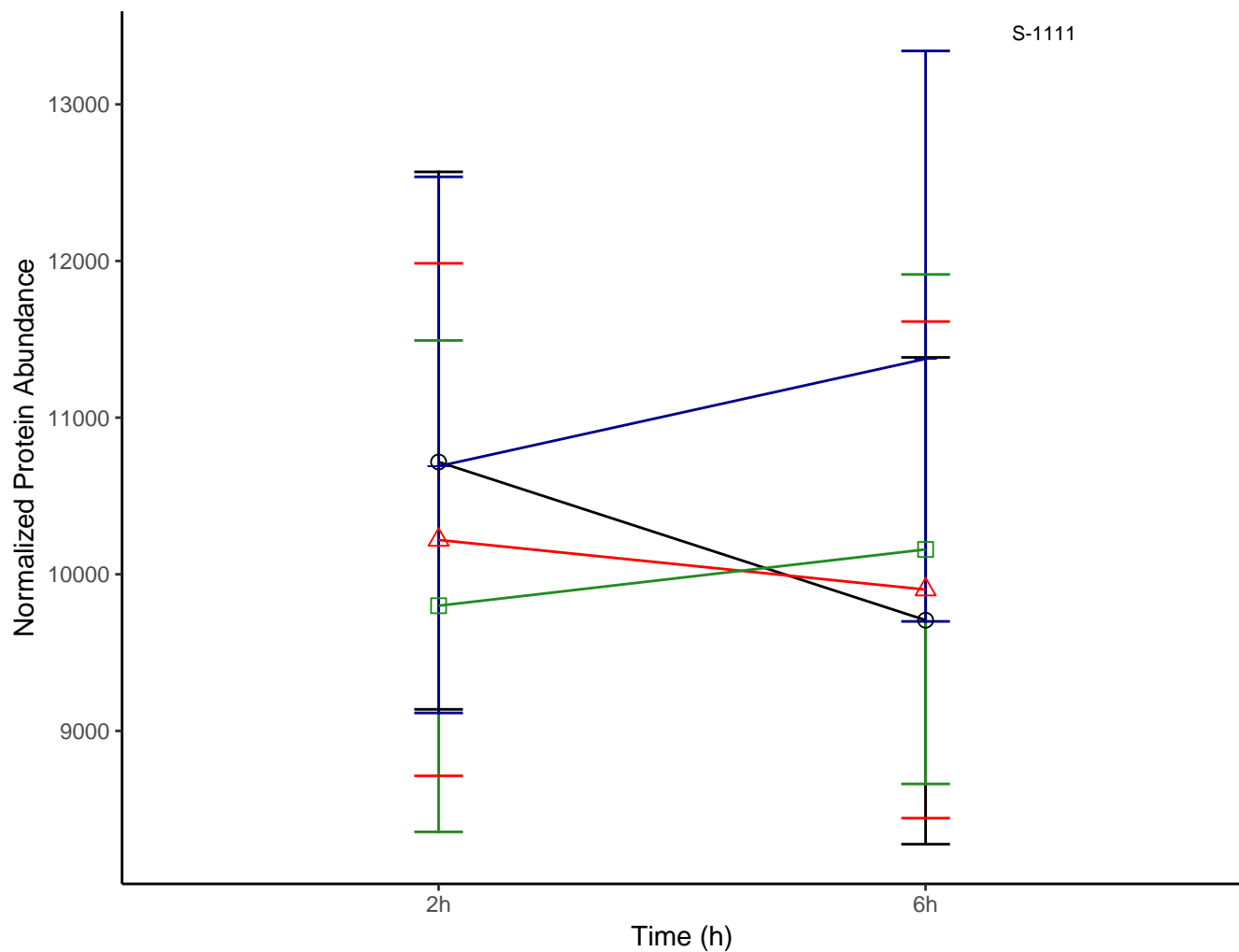
S-1110



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABH\_STAAM

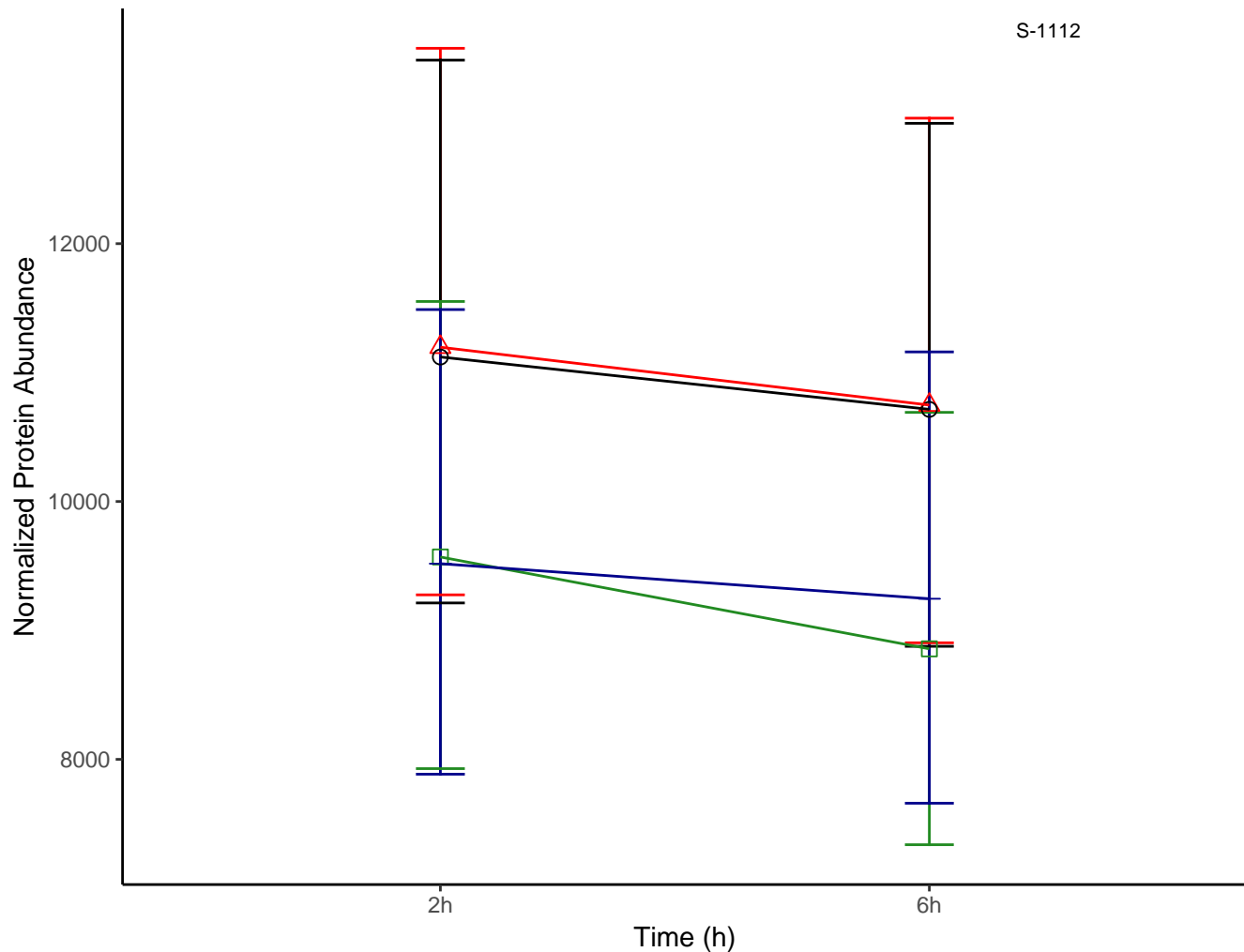
S-1111



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABZ\_STAAM

S-1112

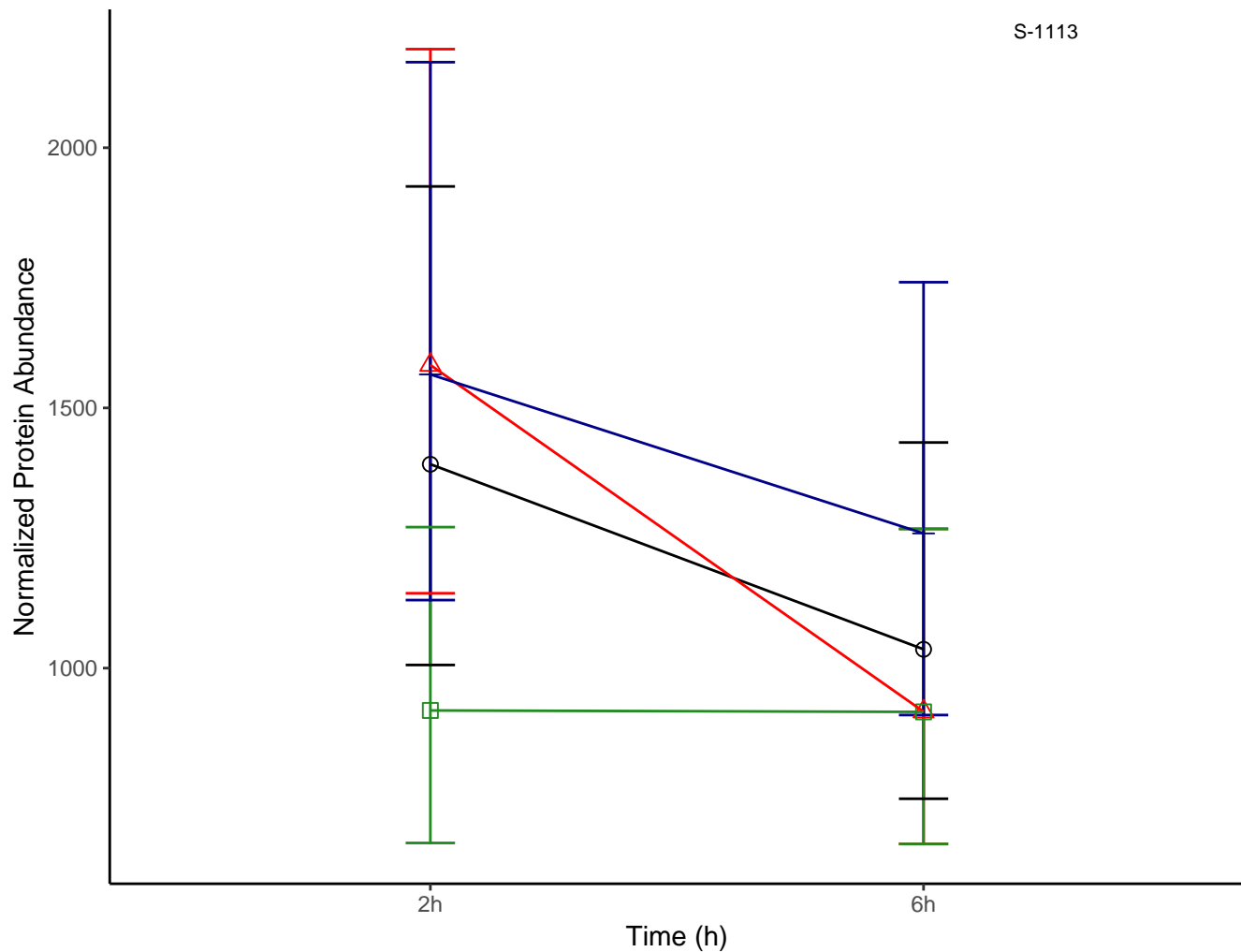


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# FEMA\_STAAM

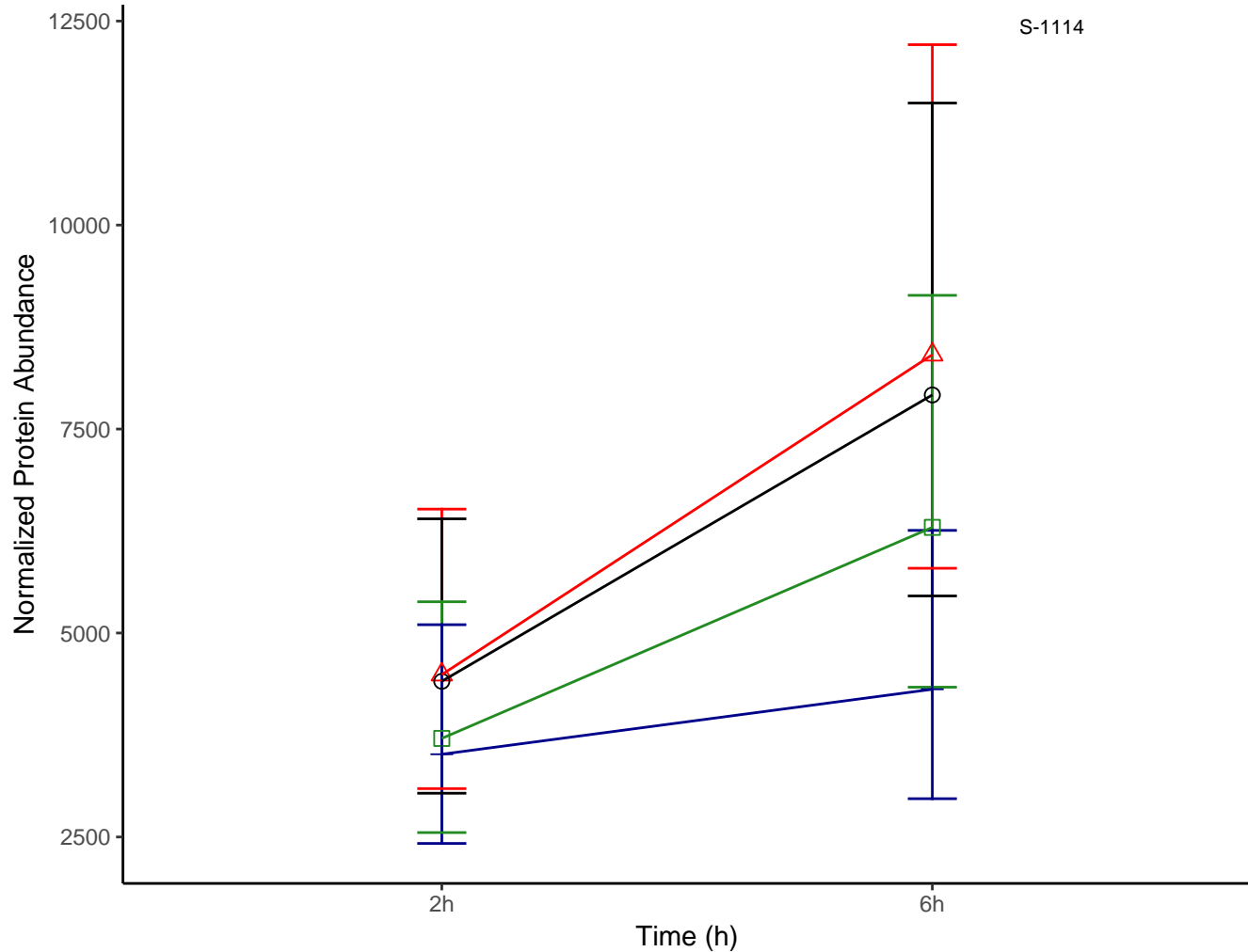
S-1113



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FEMB\_STAAM

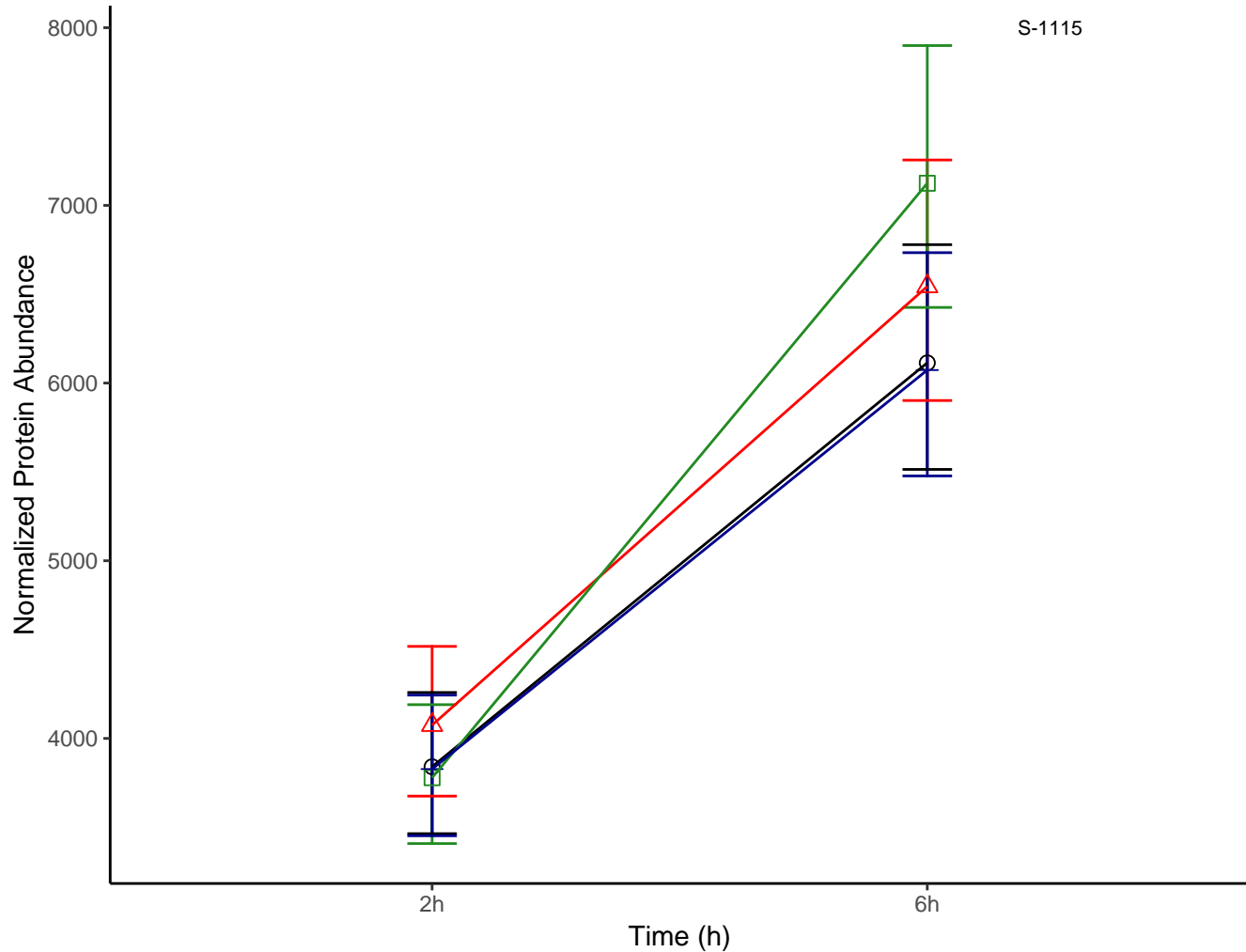
S-1114



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FEMX\_STAAM

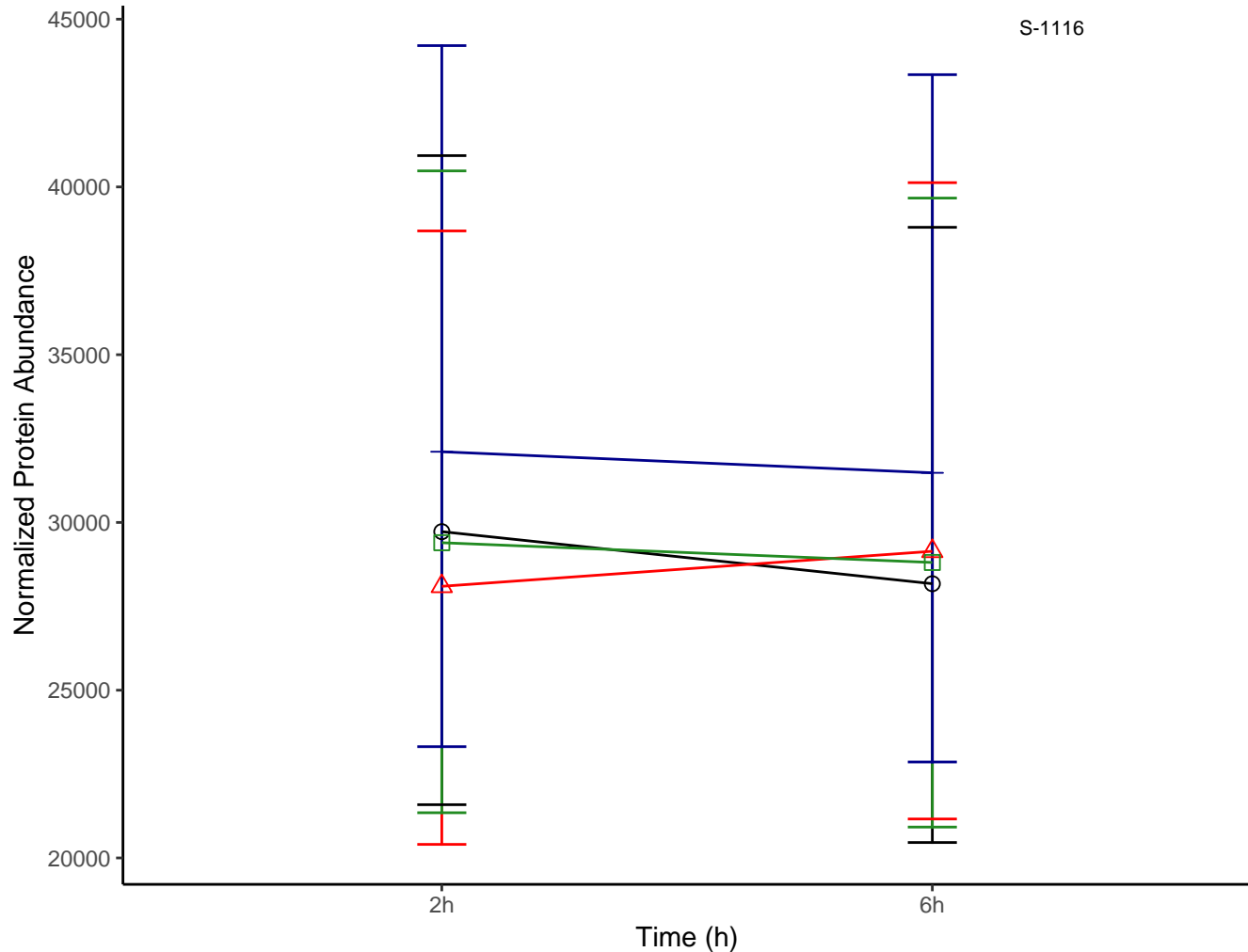
S-1115



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FENR\_STAAM

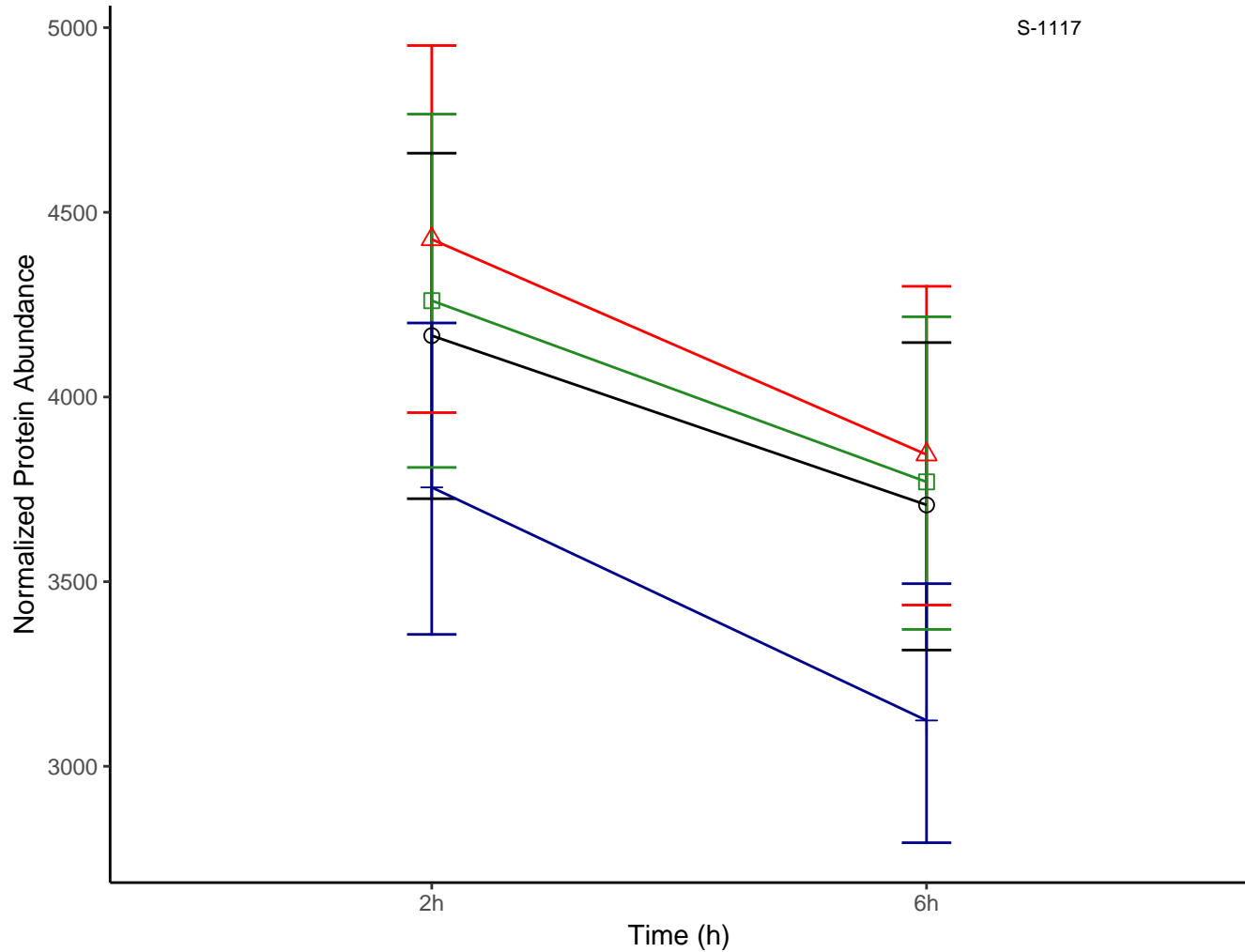
S-1116



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FLIPR\_STAAM

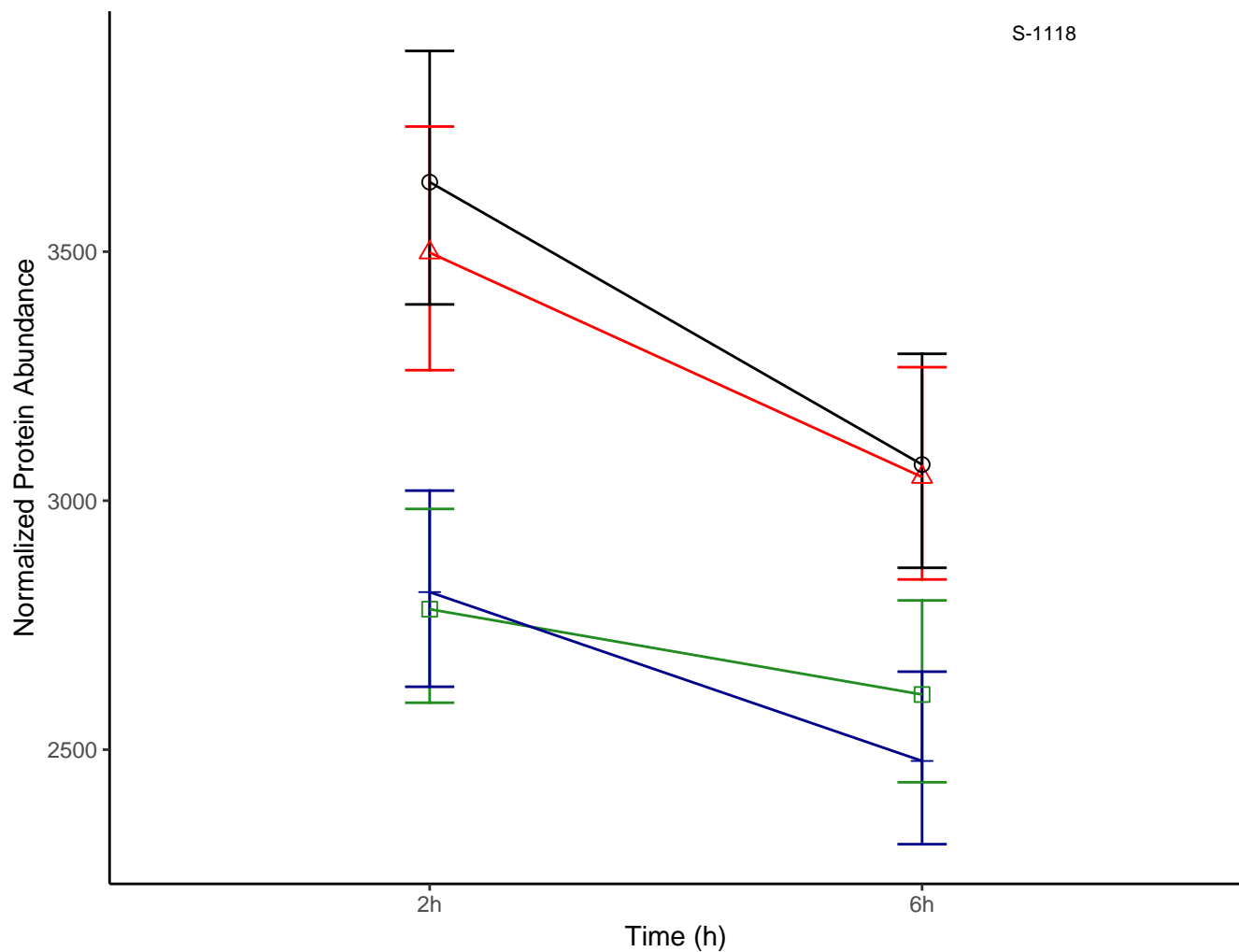
S-1117



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FMT\_STAAM

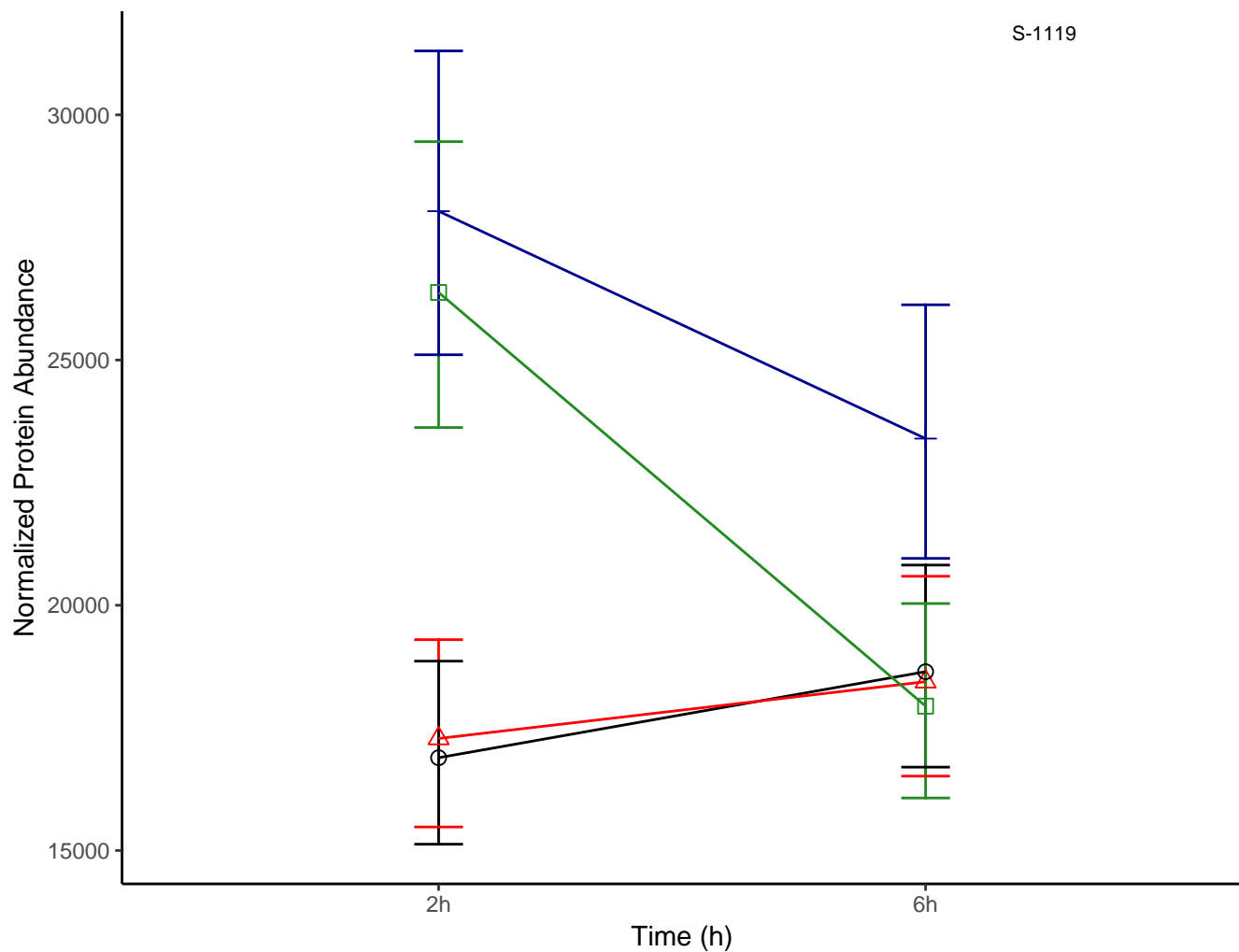
S-1118



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FMTA\_STAAM

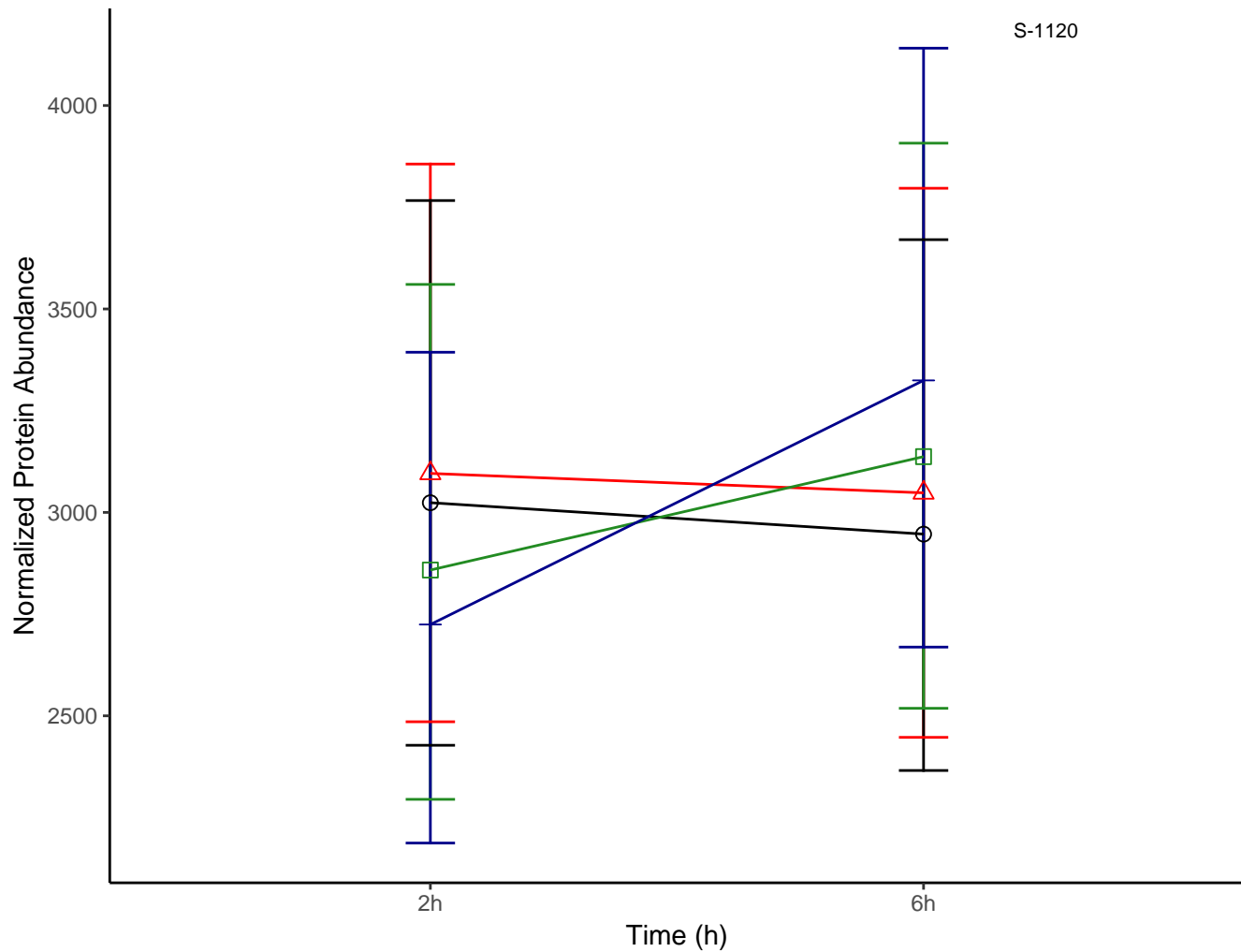
S-1119



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FOLB\_STAAM

S-1120

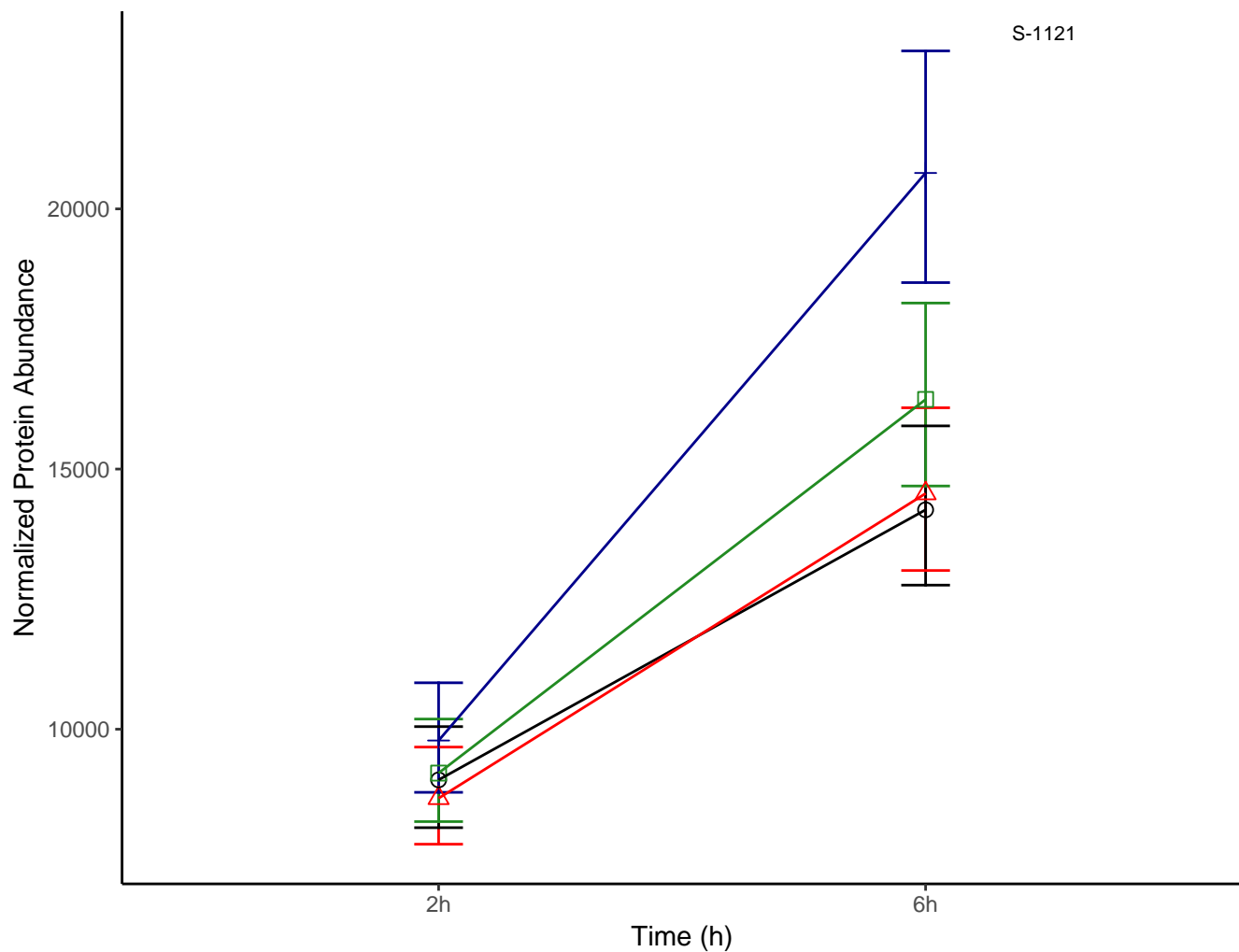


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# FOLD\_STAAM

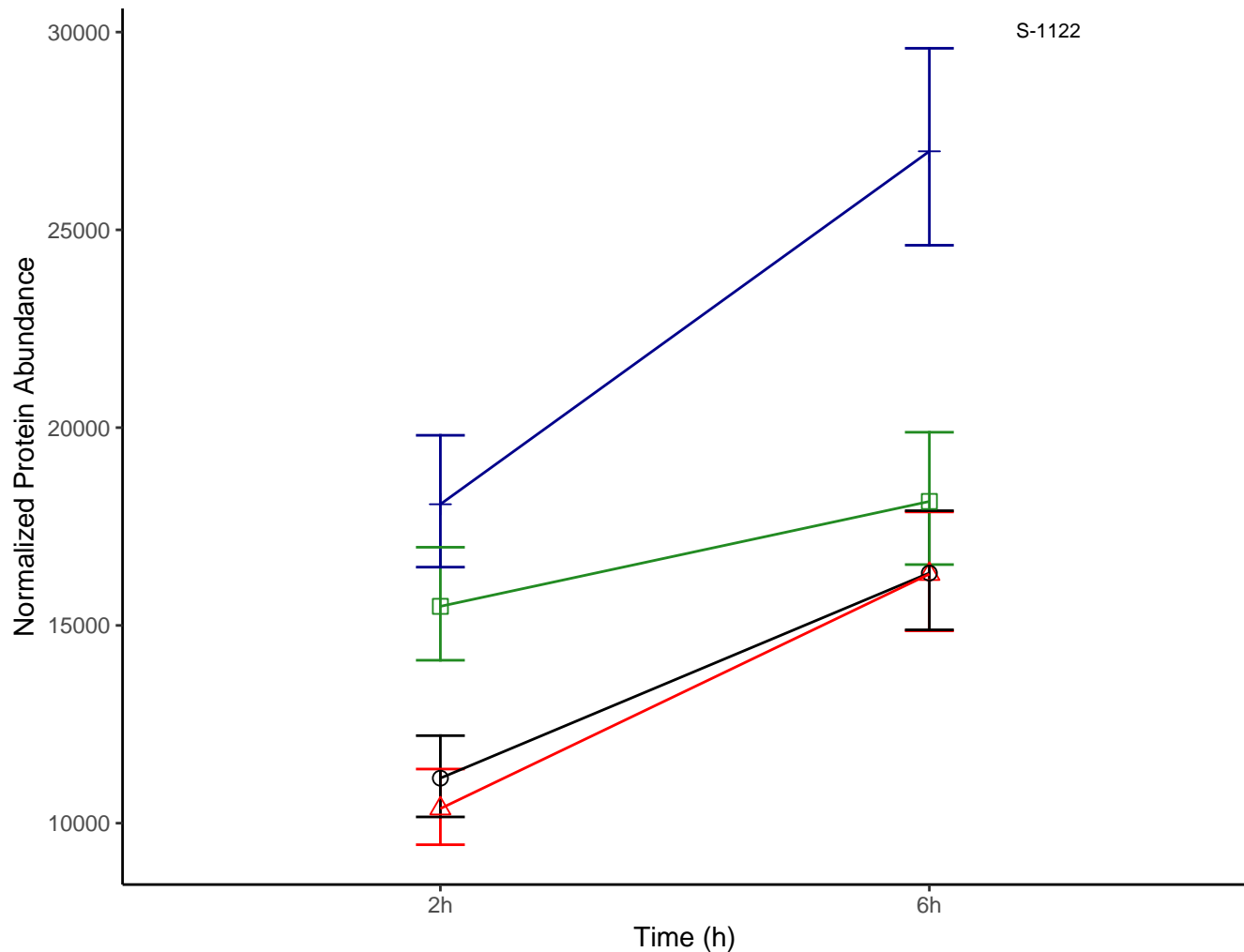
S-1121



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTHS\_STAAM

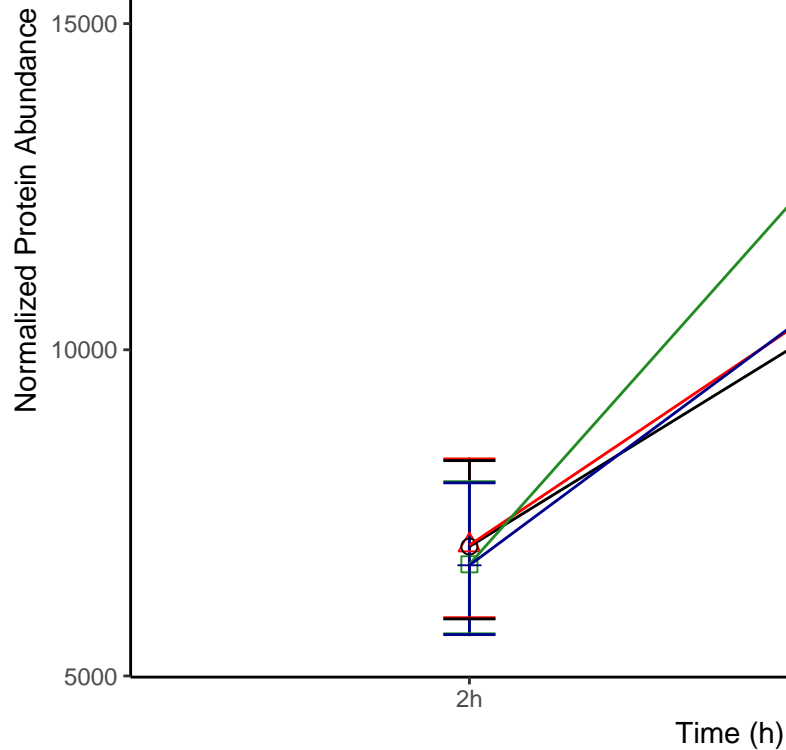
S-1122



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTN\_STAAM

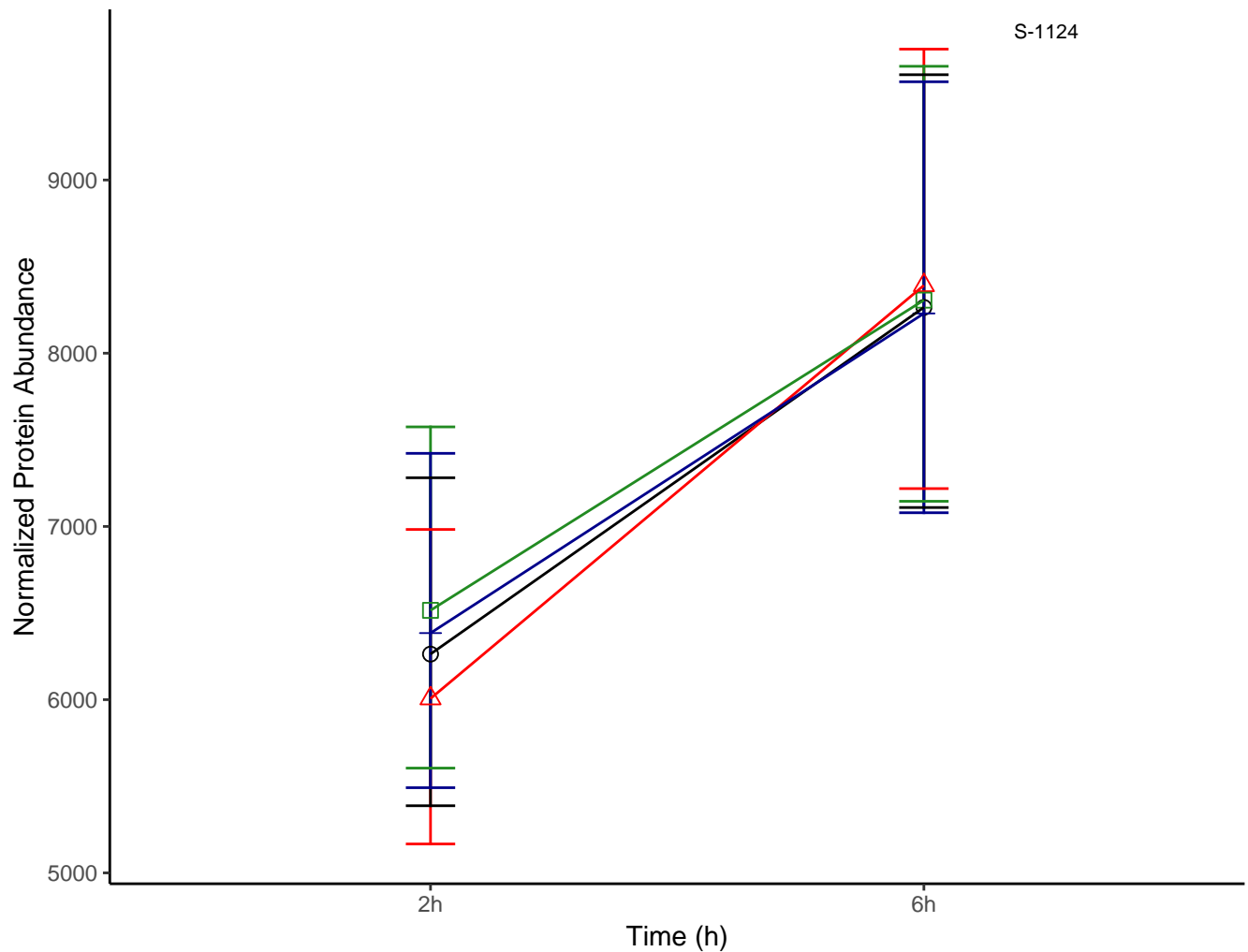
S-1123



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTSA\_STAAM

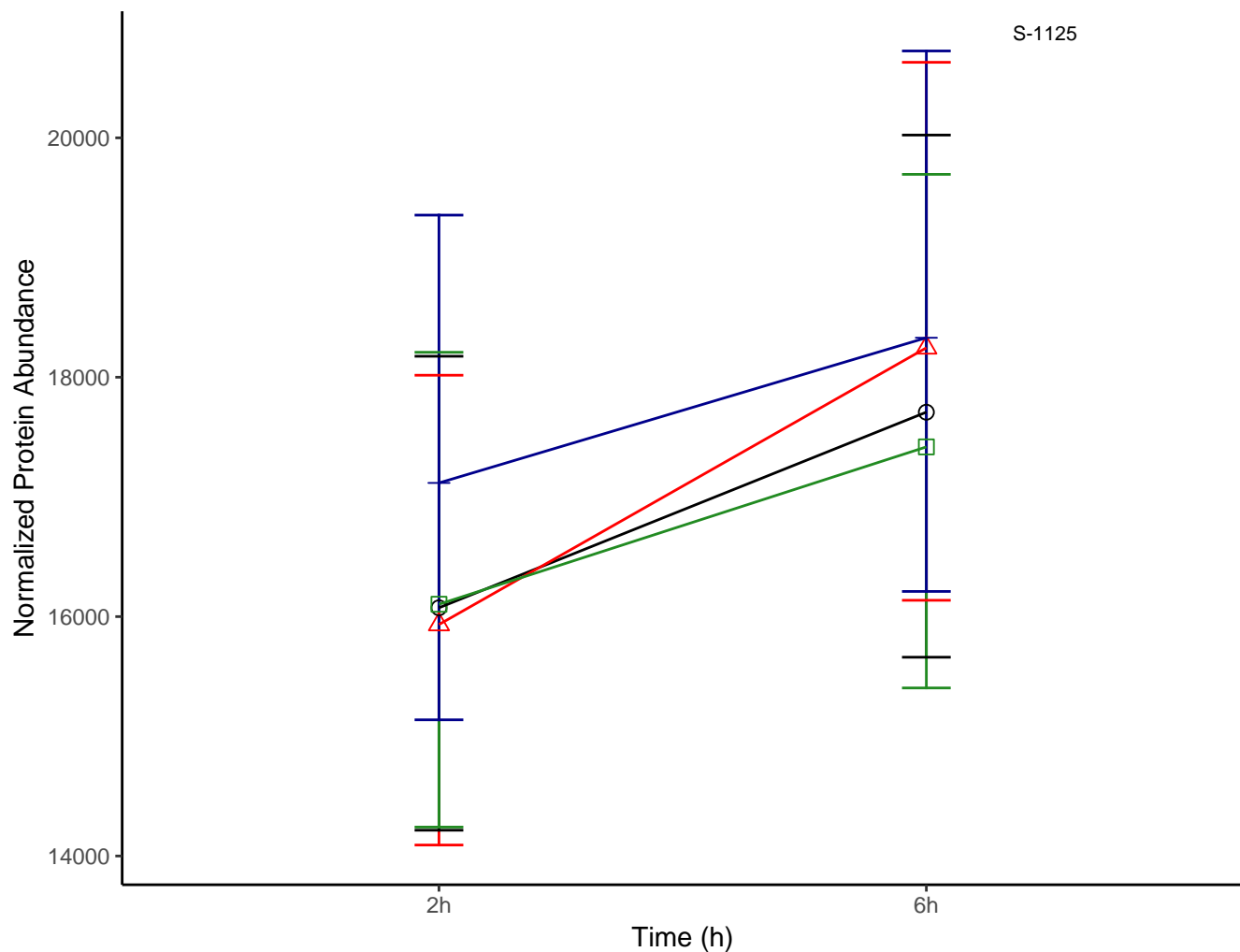
S-1124



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# FTSZ\_STAAM

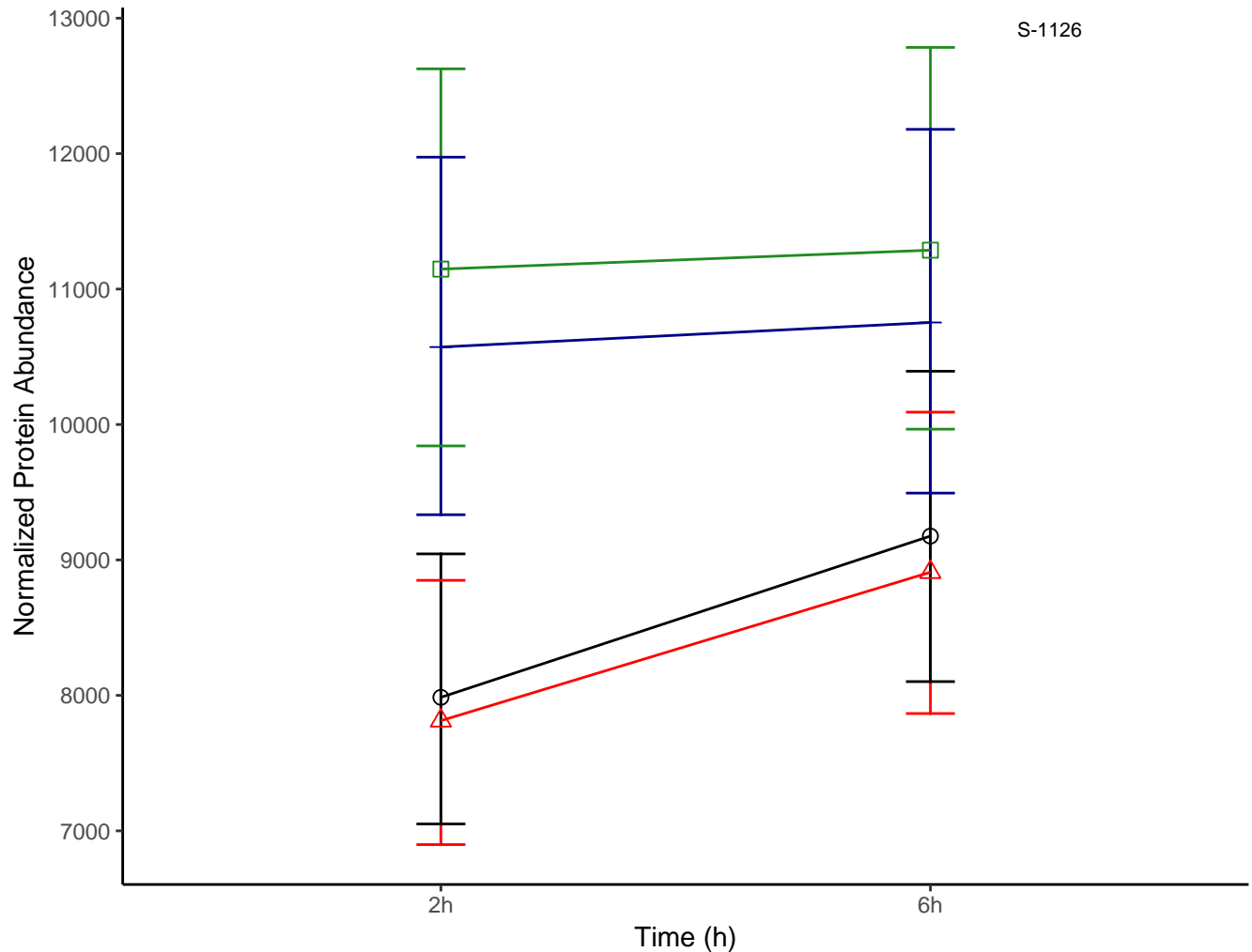
S-1125



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# FUMC\_STAAM

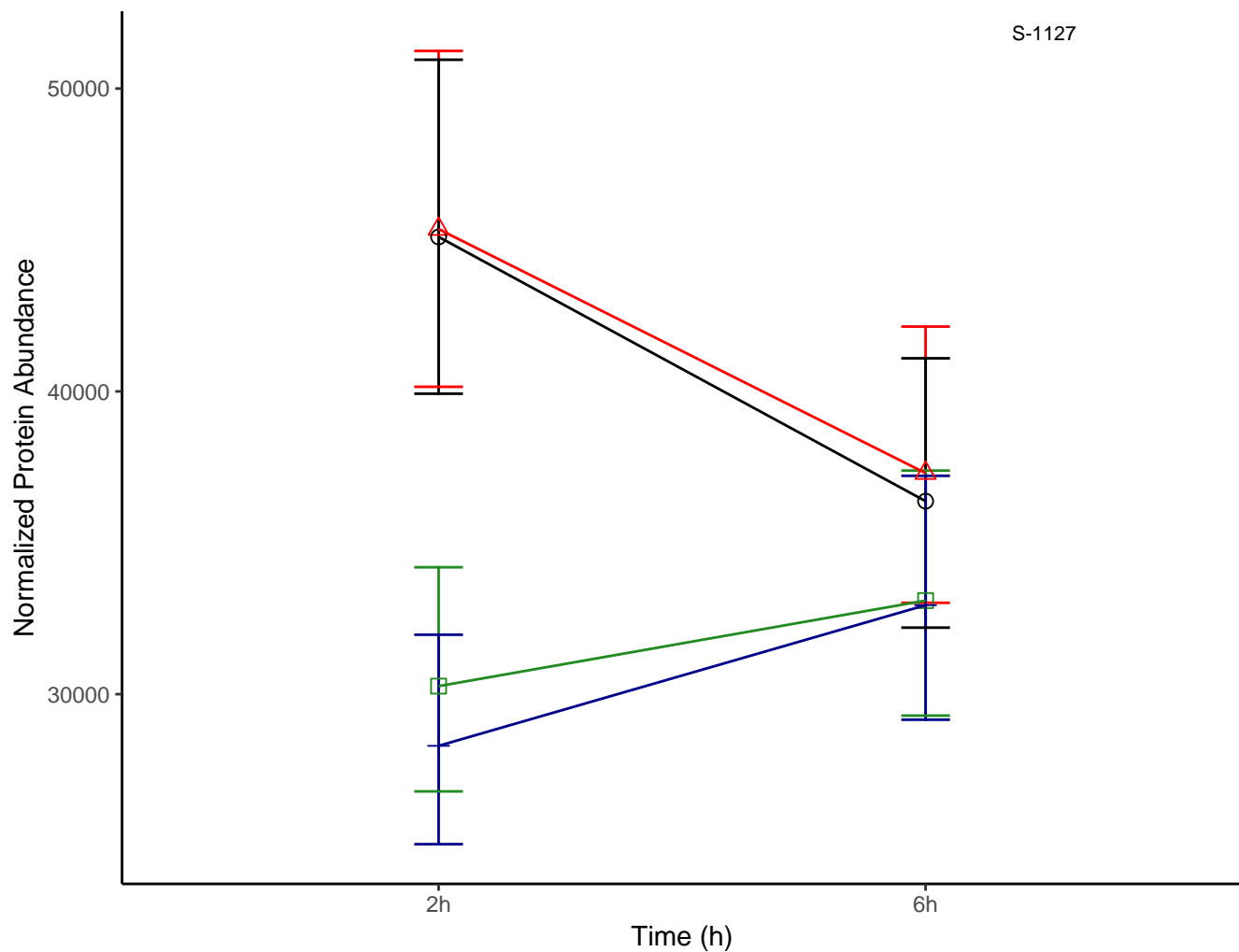
S-1126



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# G3P1\_STAAM

S-1127



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# G3P2\_STAAM

S-1128

Normalized Protein Abundance

12000

10000

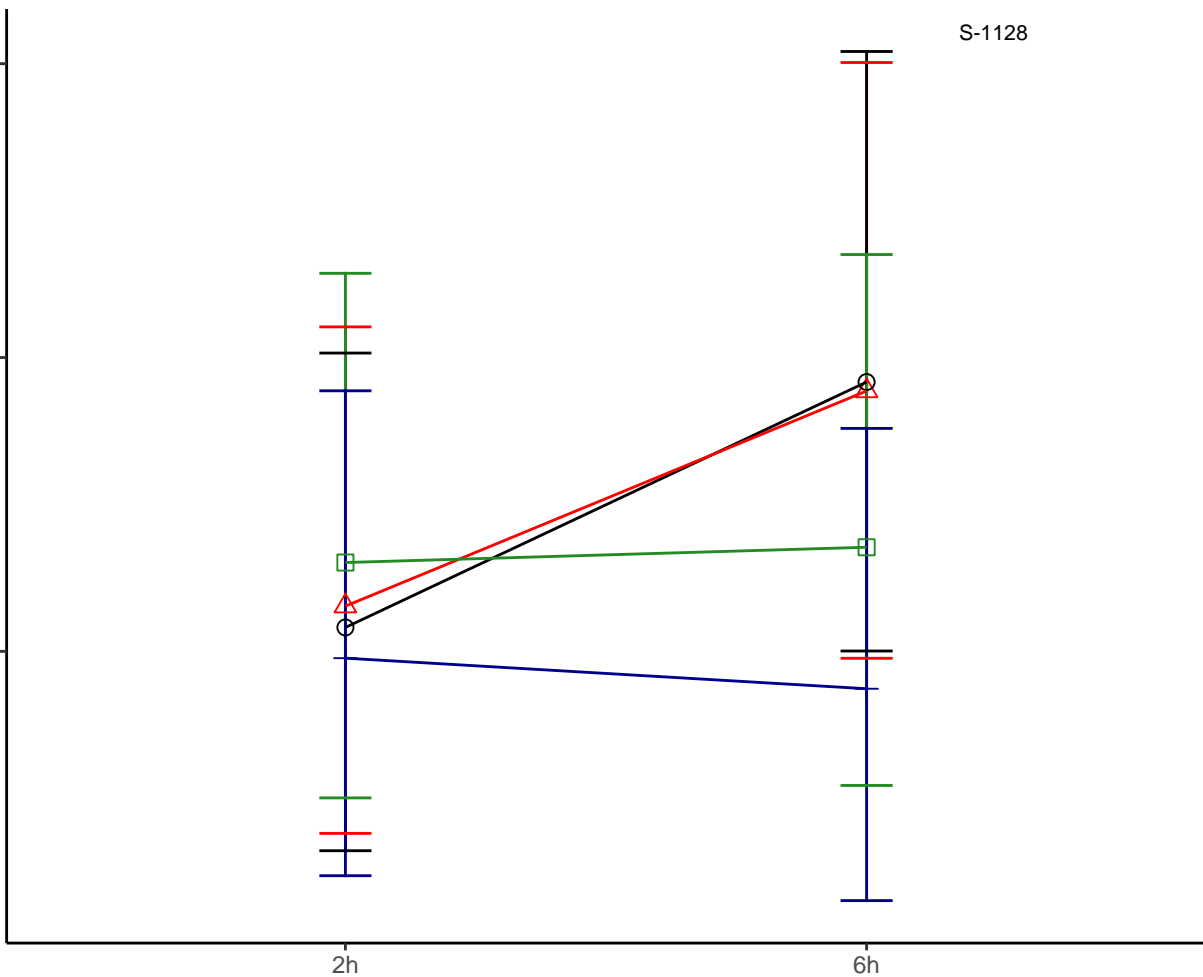
8000

2h

6h

Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*





# G6PI\_STAAM

S-1129

Normalized Protein Abundance

25000

20000

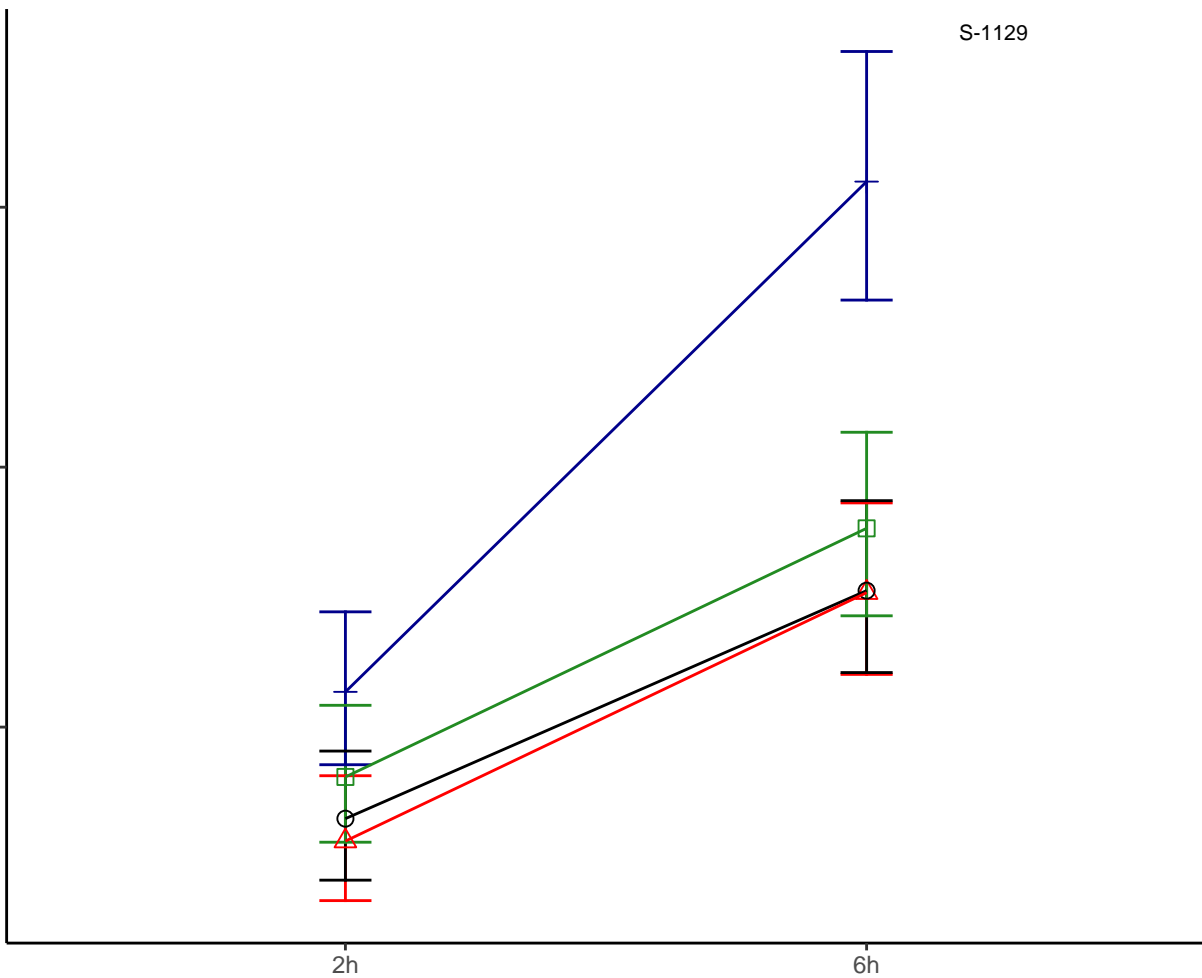
15000

2h

Time (h)

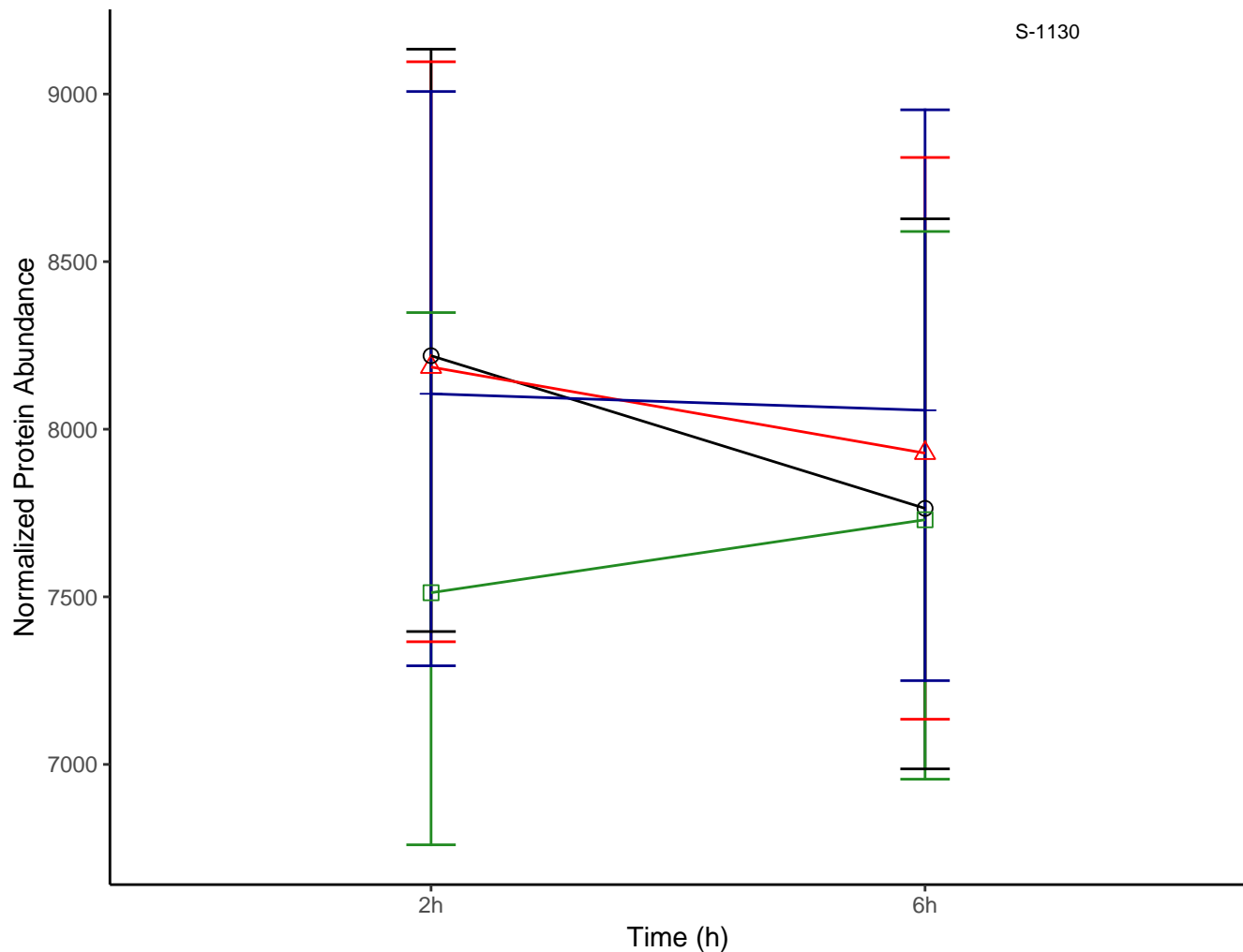
6h

- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# GATA\_STAAM

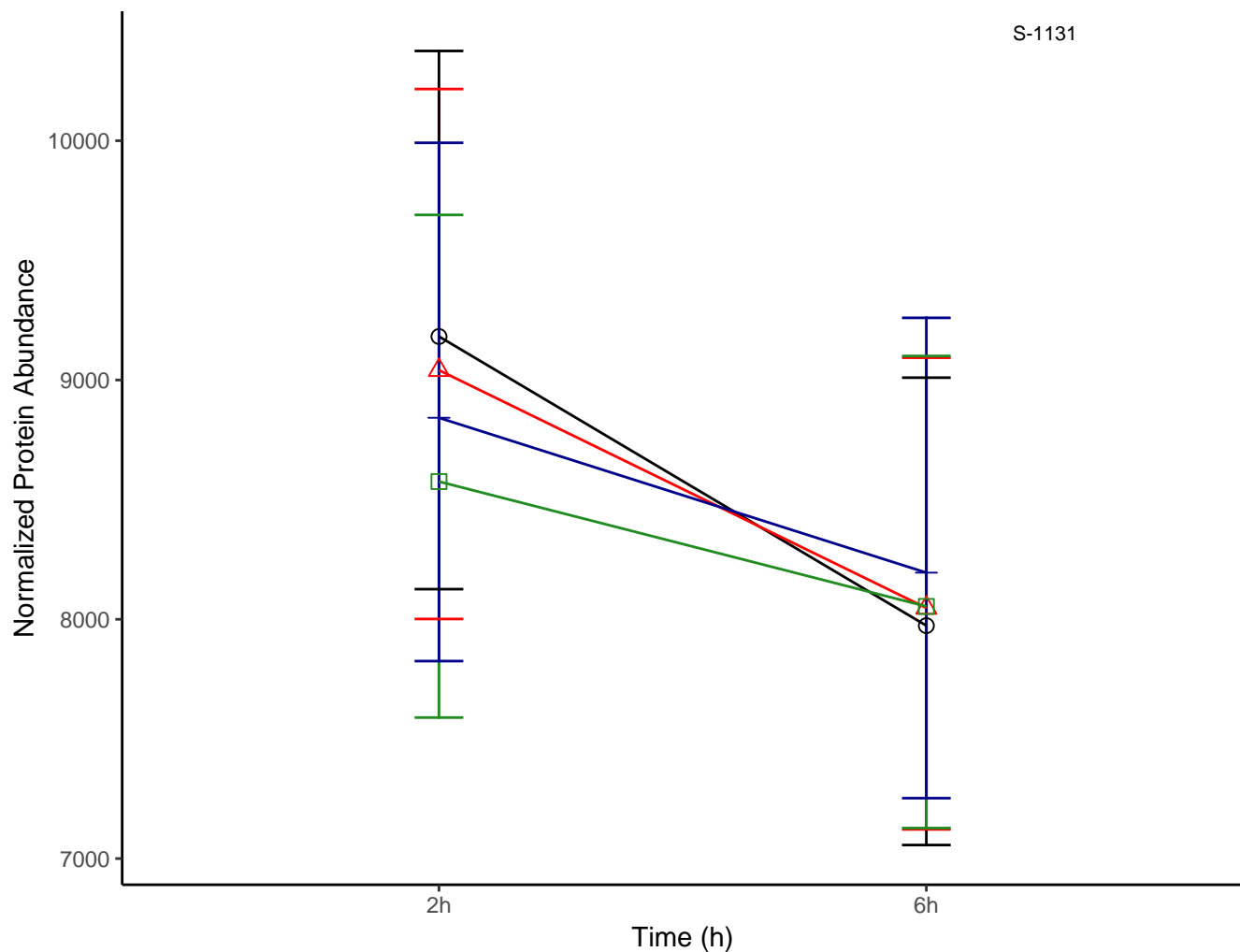
S-1130



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATB\_STAAM

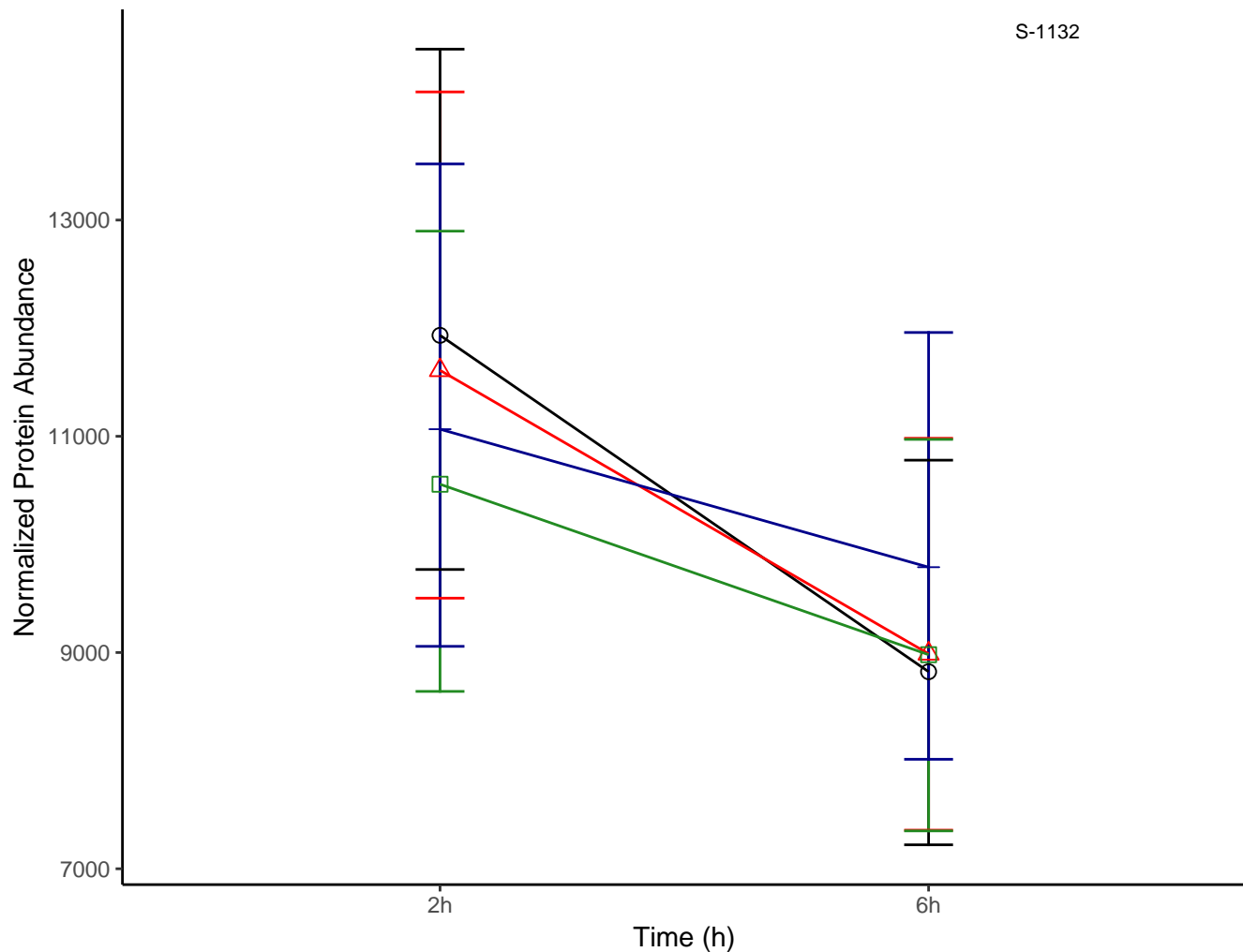
S-1131



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GATC\_STAAM

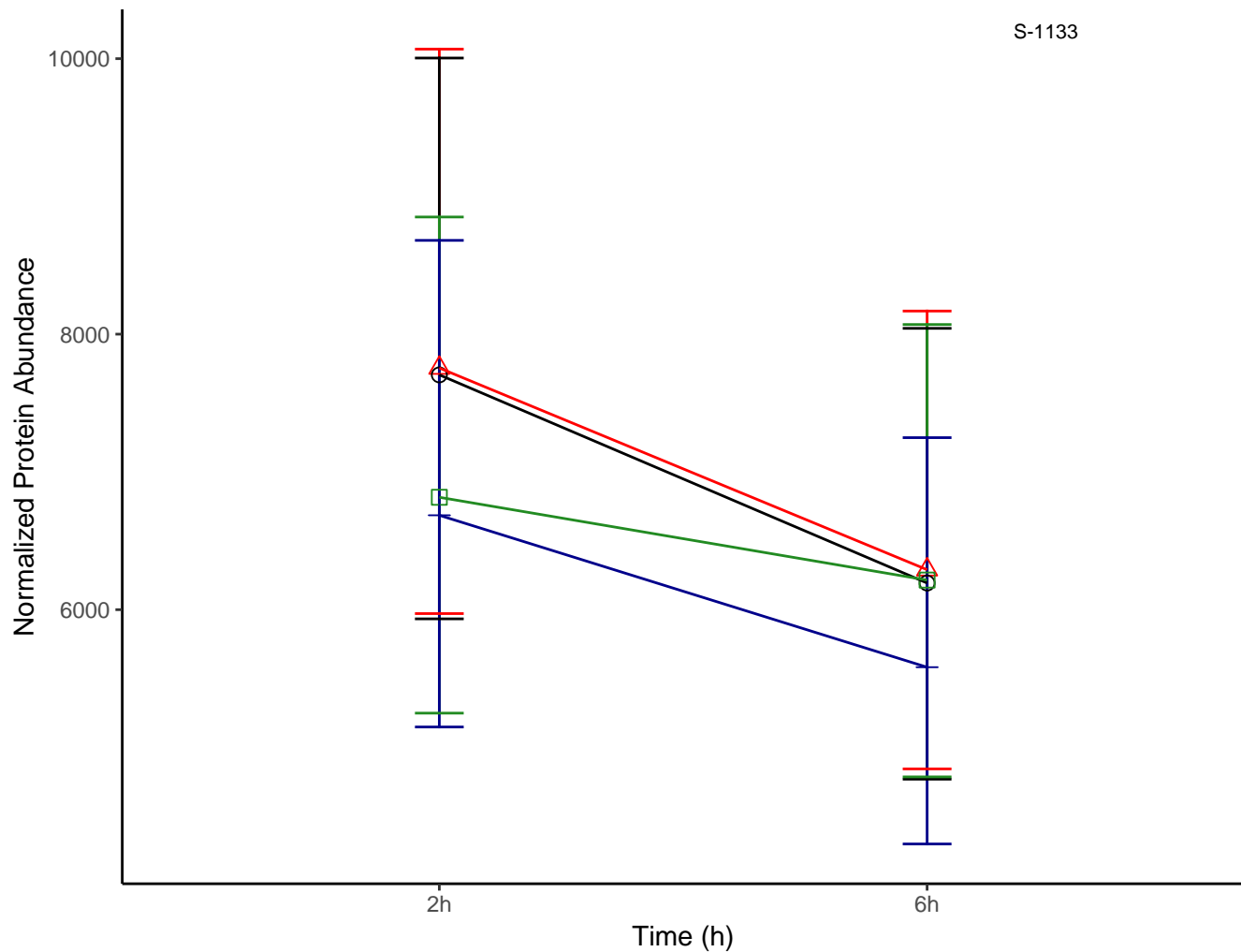
S-1132



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GCH4\_STAAM

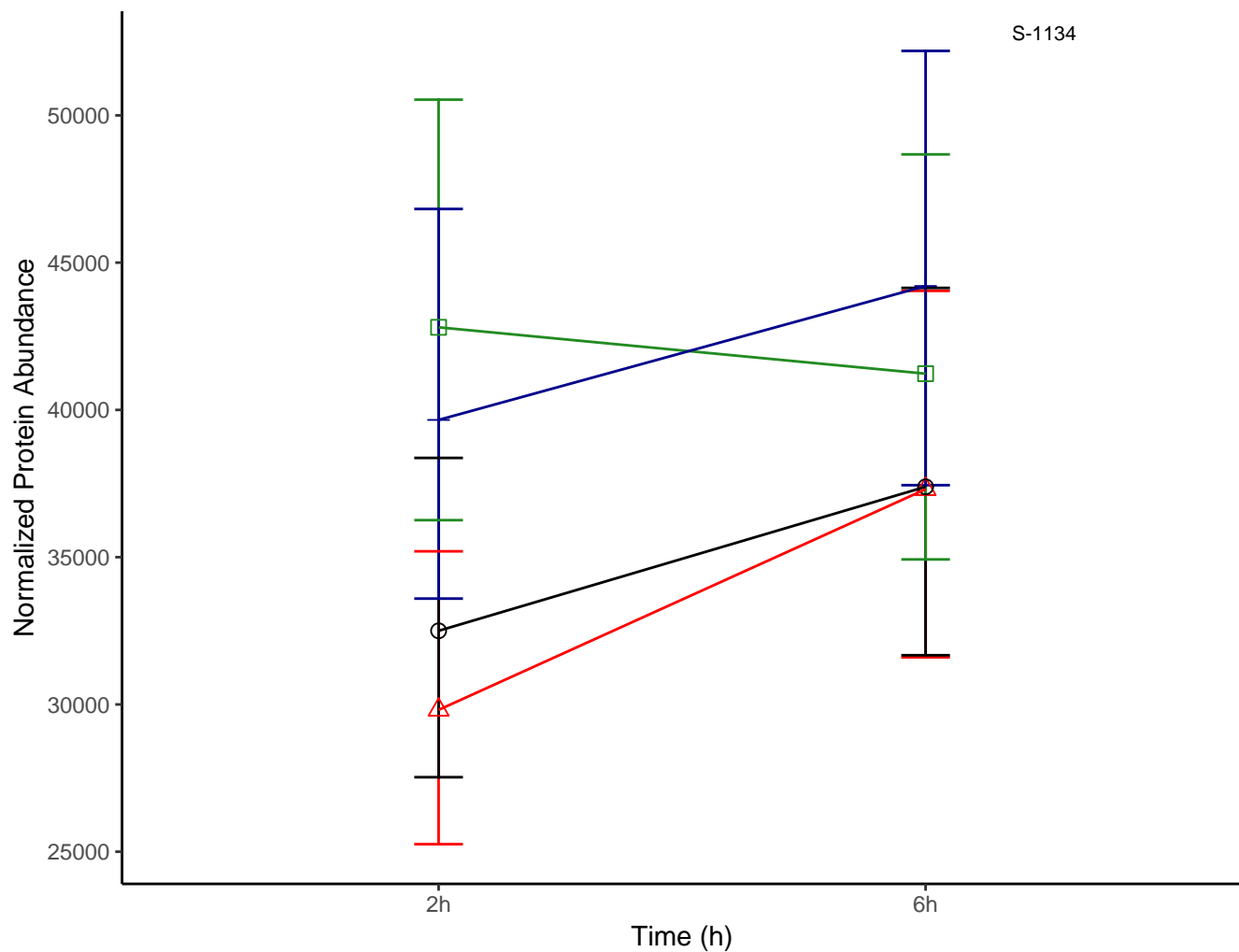
S-1133



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# GCSH\_STAAM

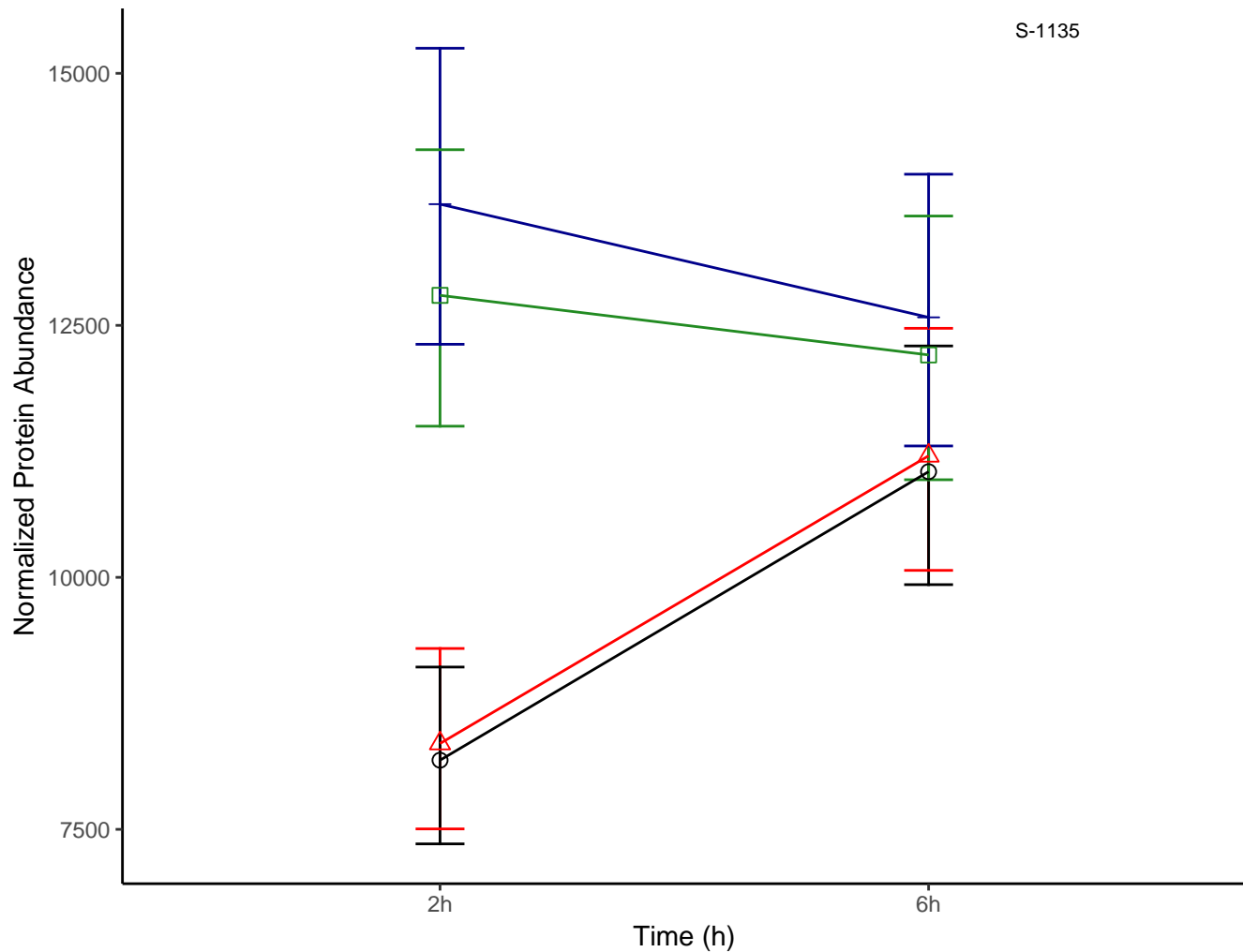
S-1134



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## GCSPA\_STAAM

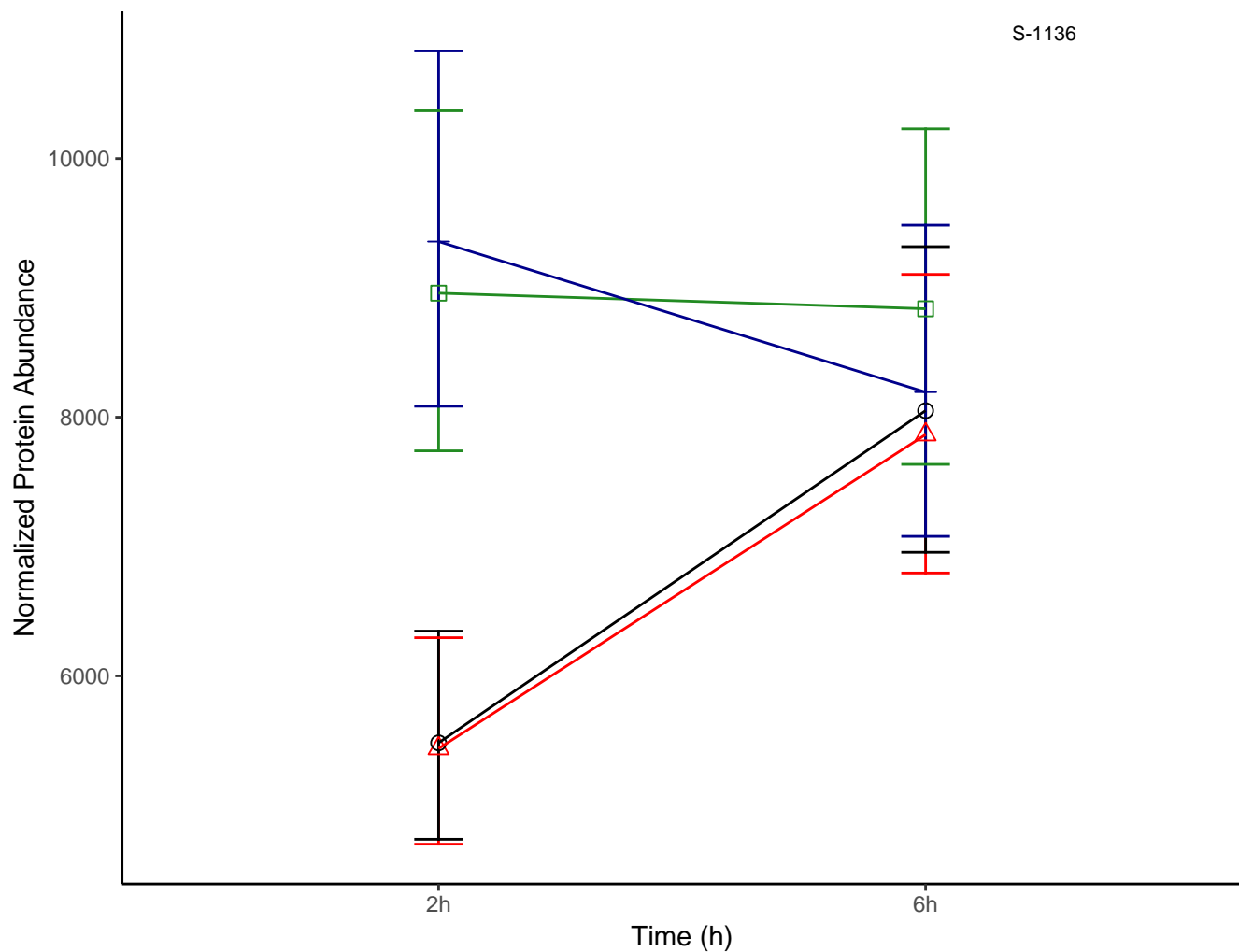
S-1135



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GCSPB\_STAAM

S-1136



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GCST\_STAAM

S-1137

Normalized Protein Abundance

8000

6000

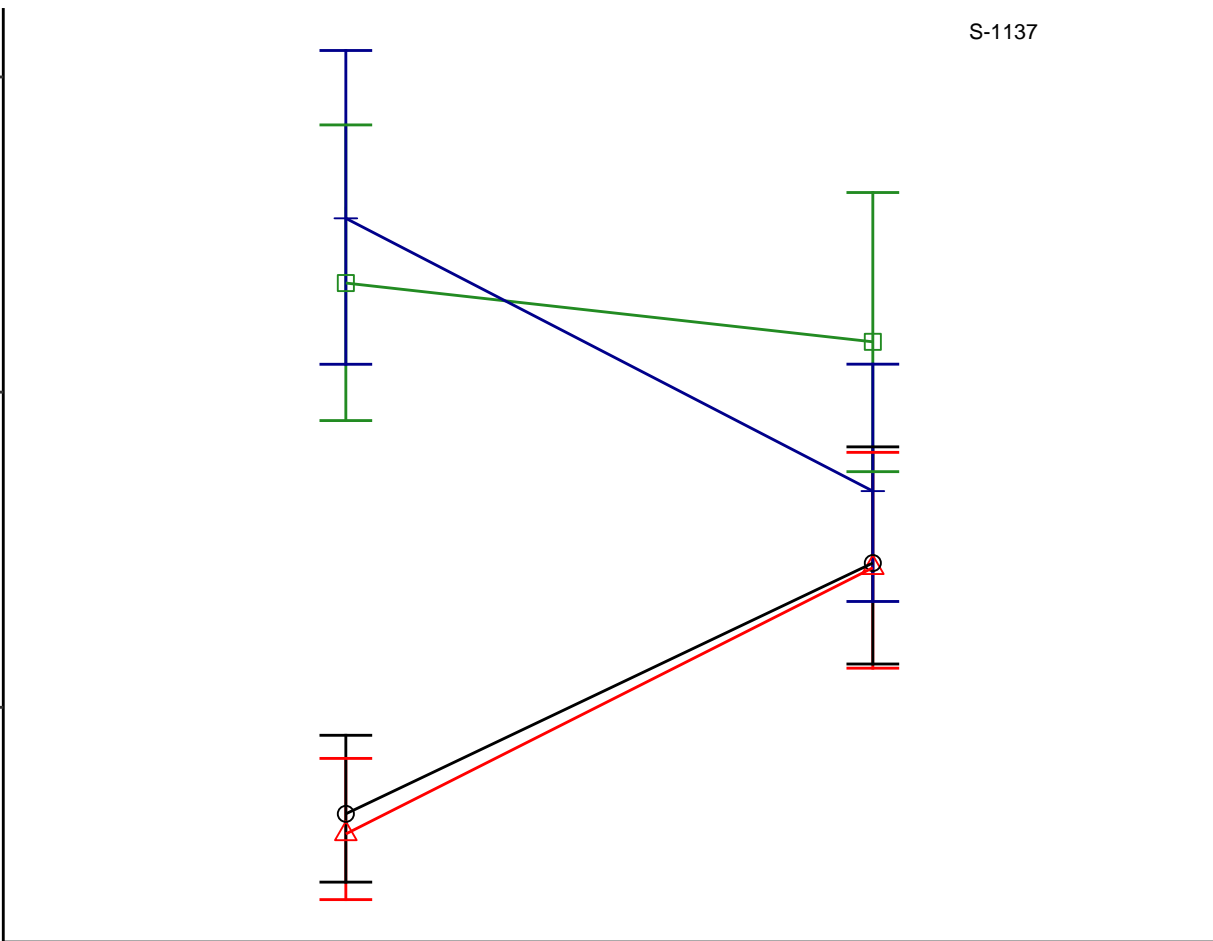
4000

2h

6h

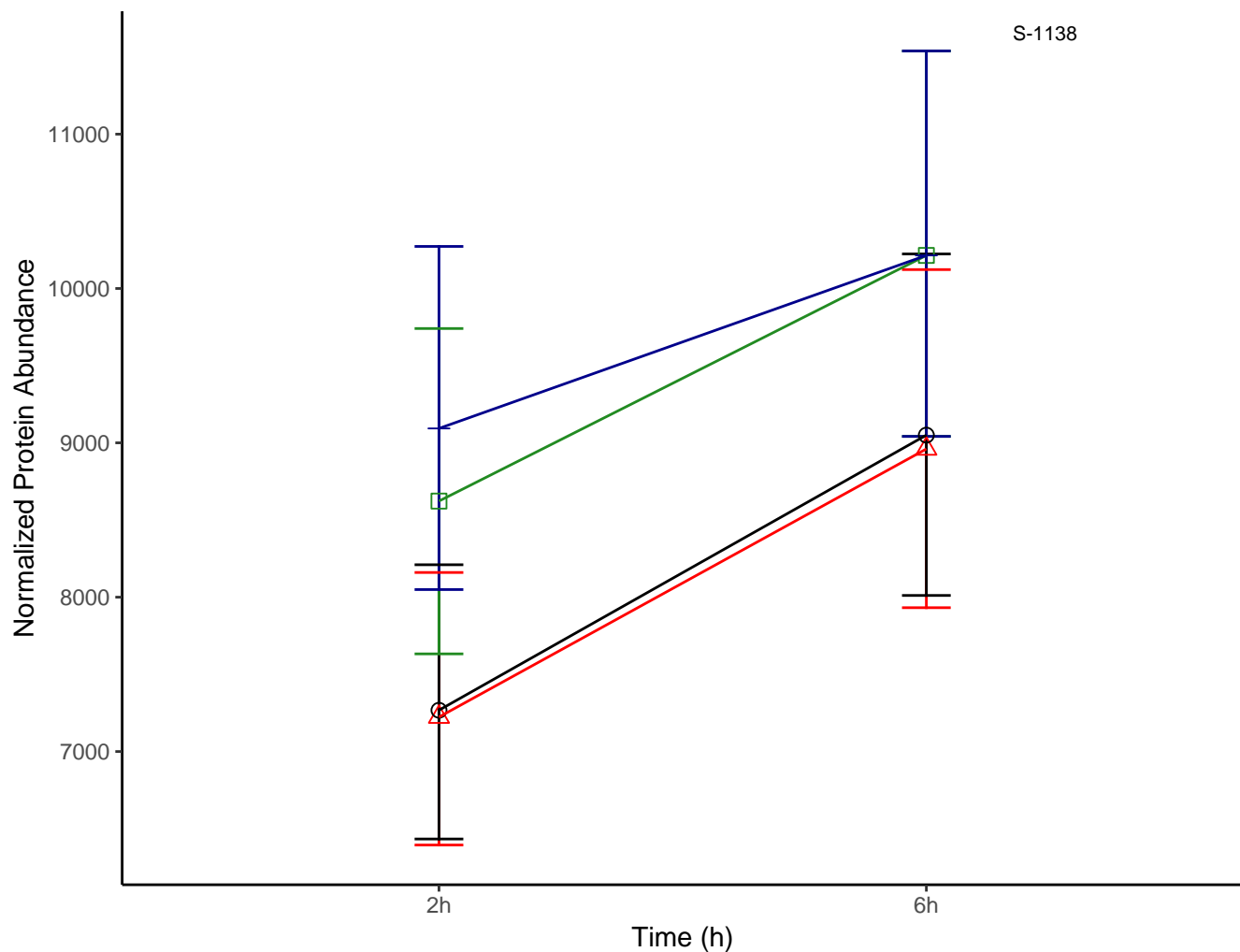
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# GLMM\_STAAM

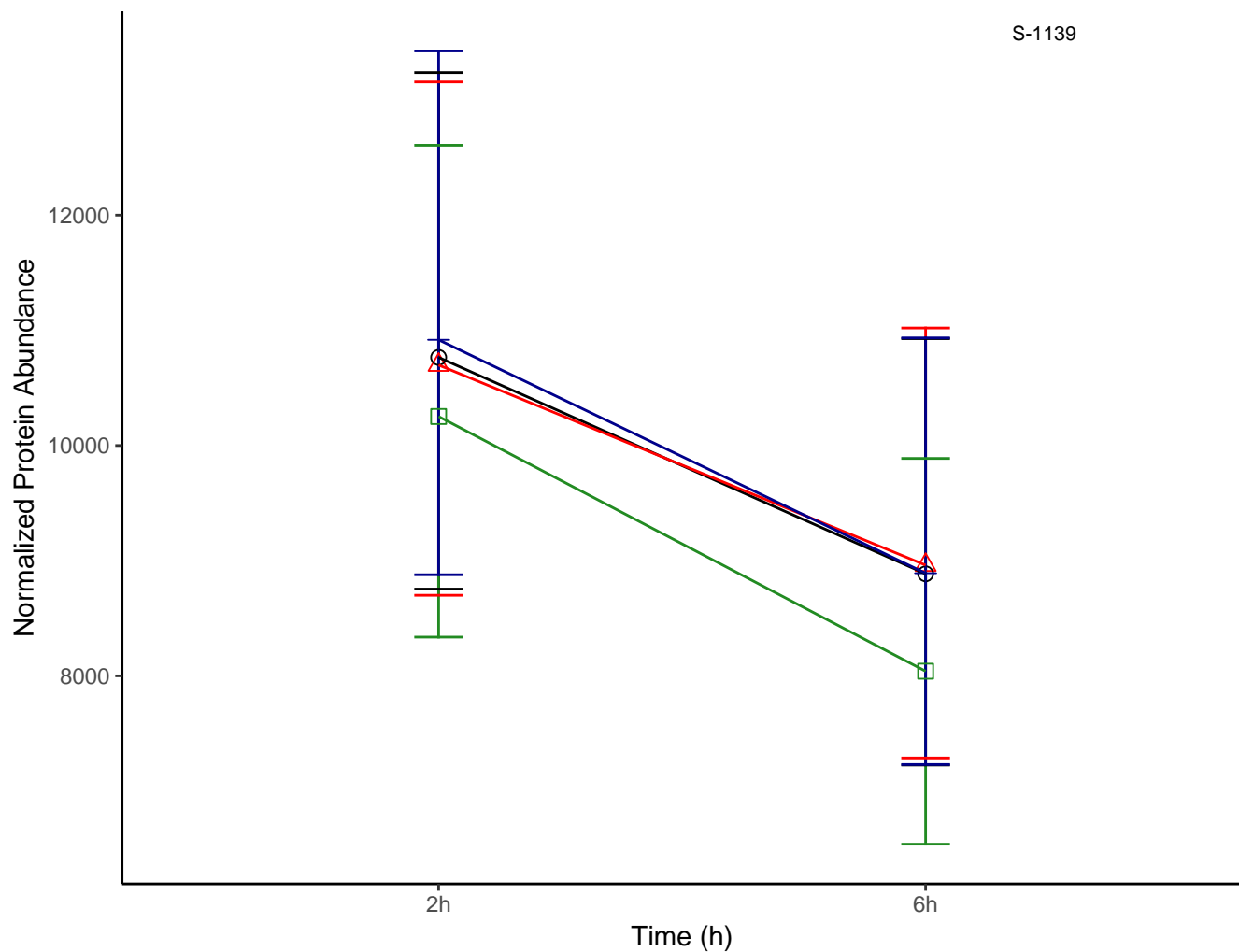
S-1138



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GLMS\_STAAM

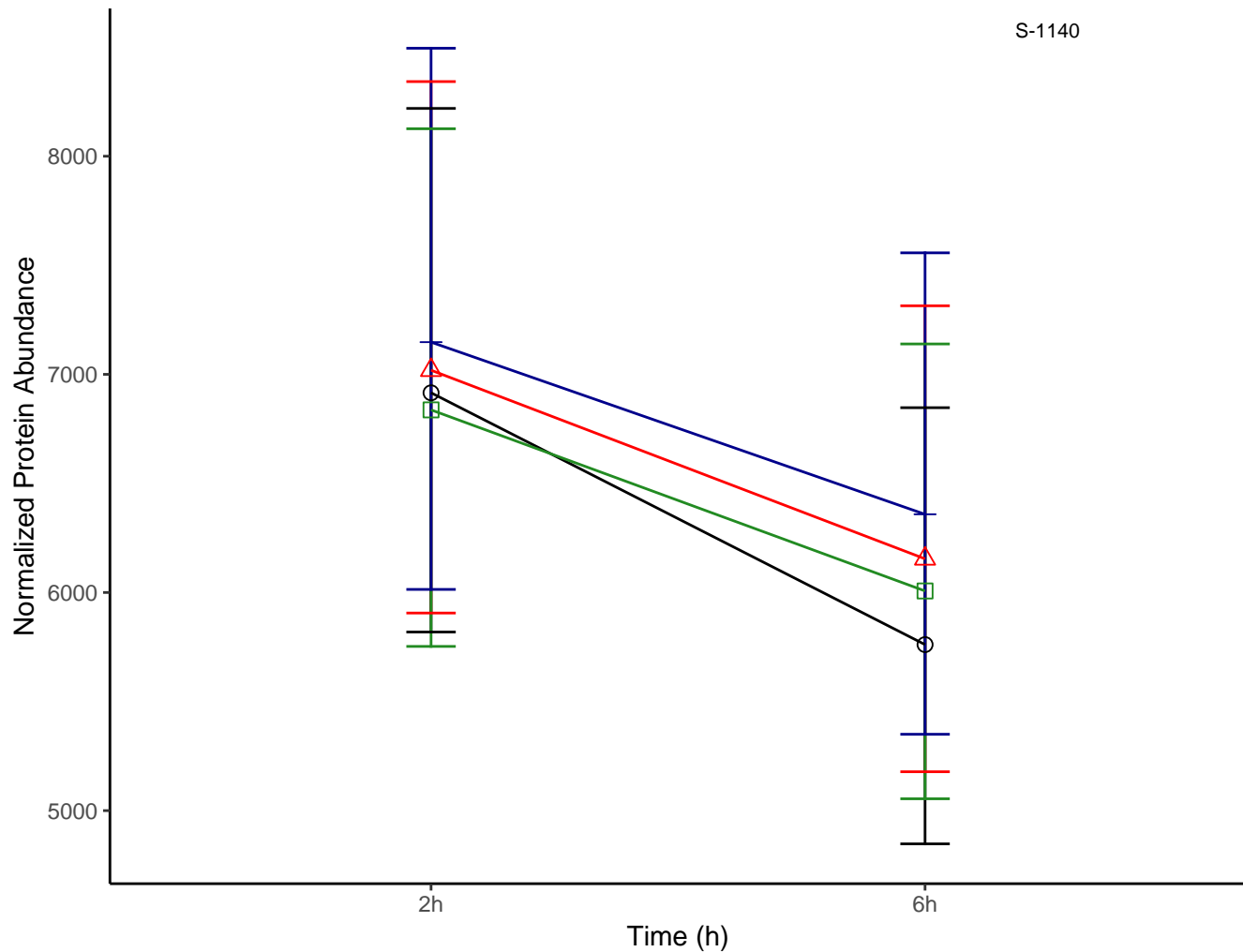
S-1139



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GLMU\_STAAM

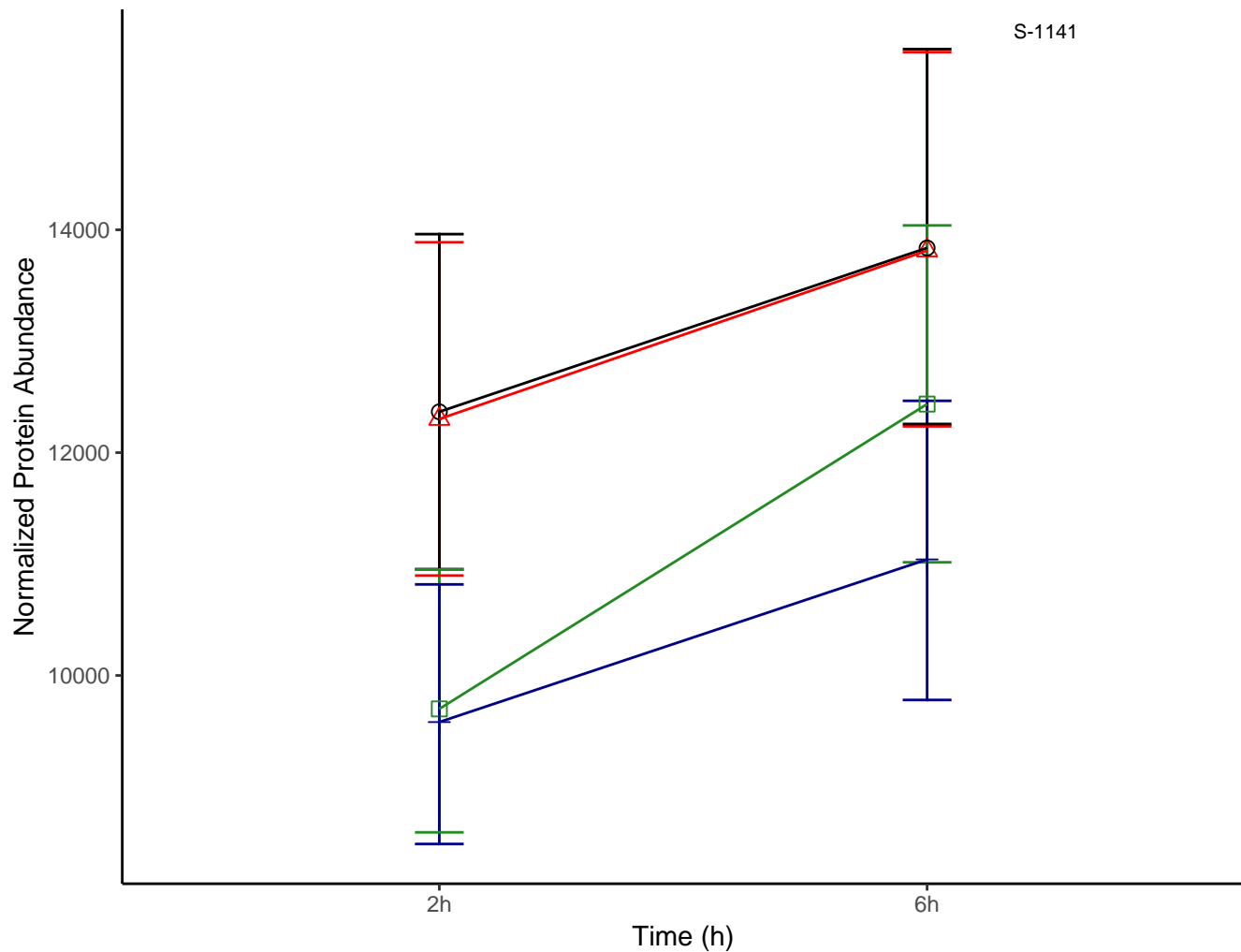
S-1140



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLNA\_STAAM

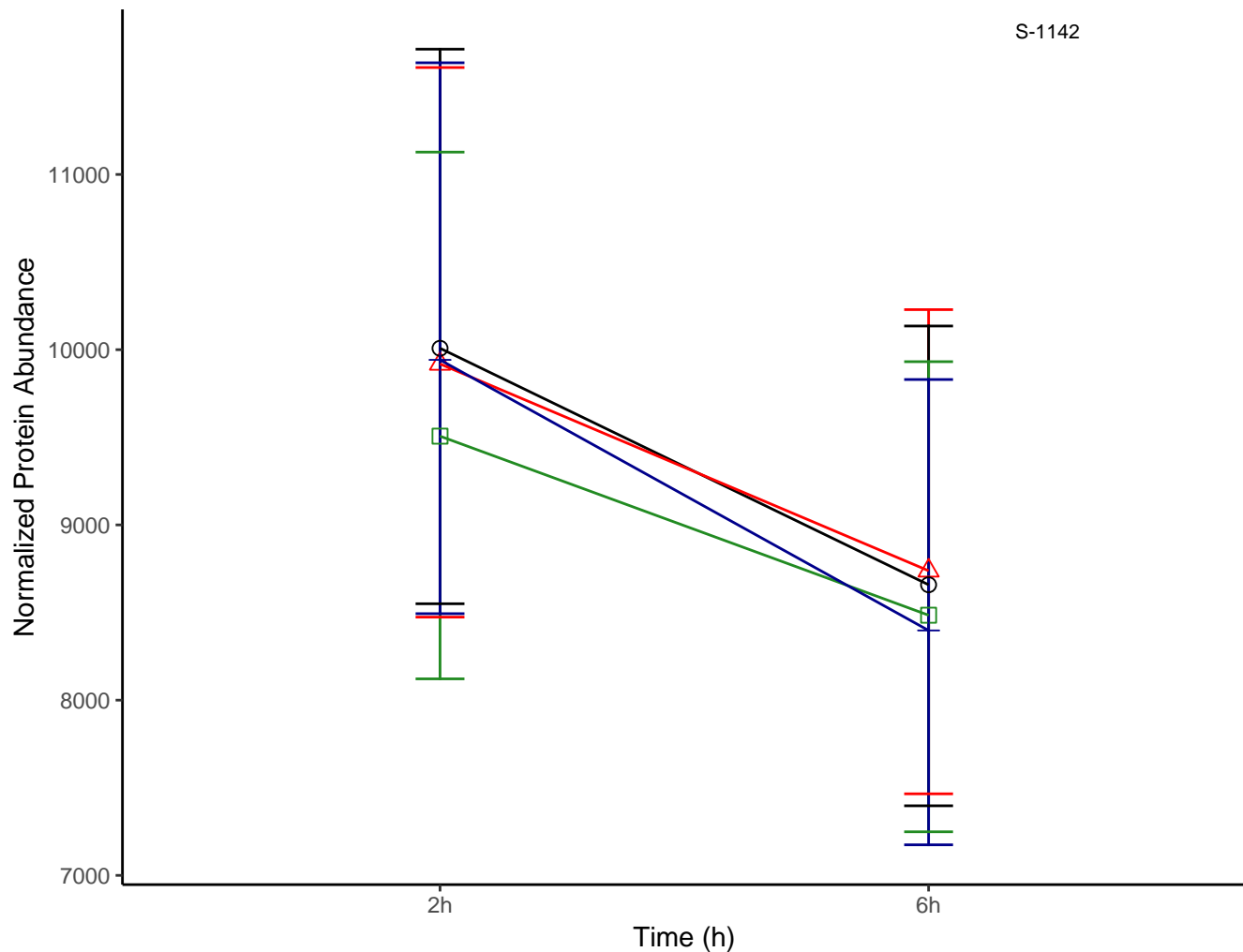
S-1141



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLPD\_STAAM

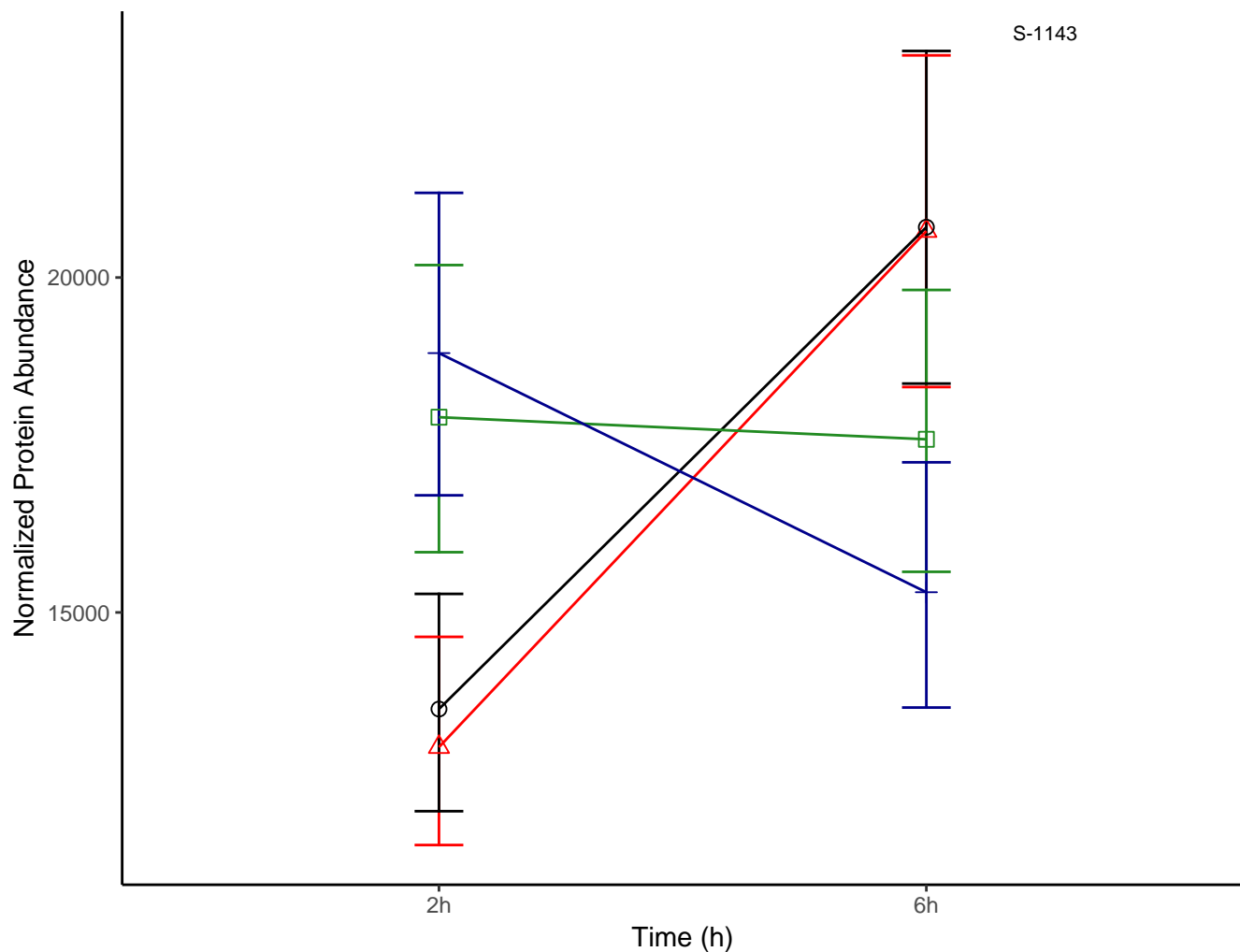
S-1142



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GLPK\_STAAM

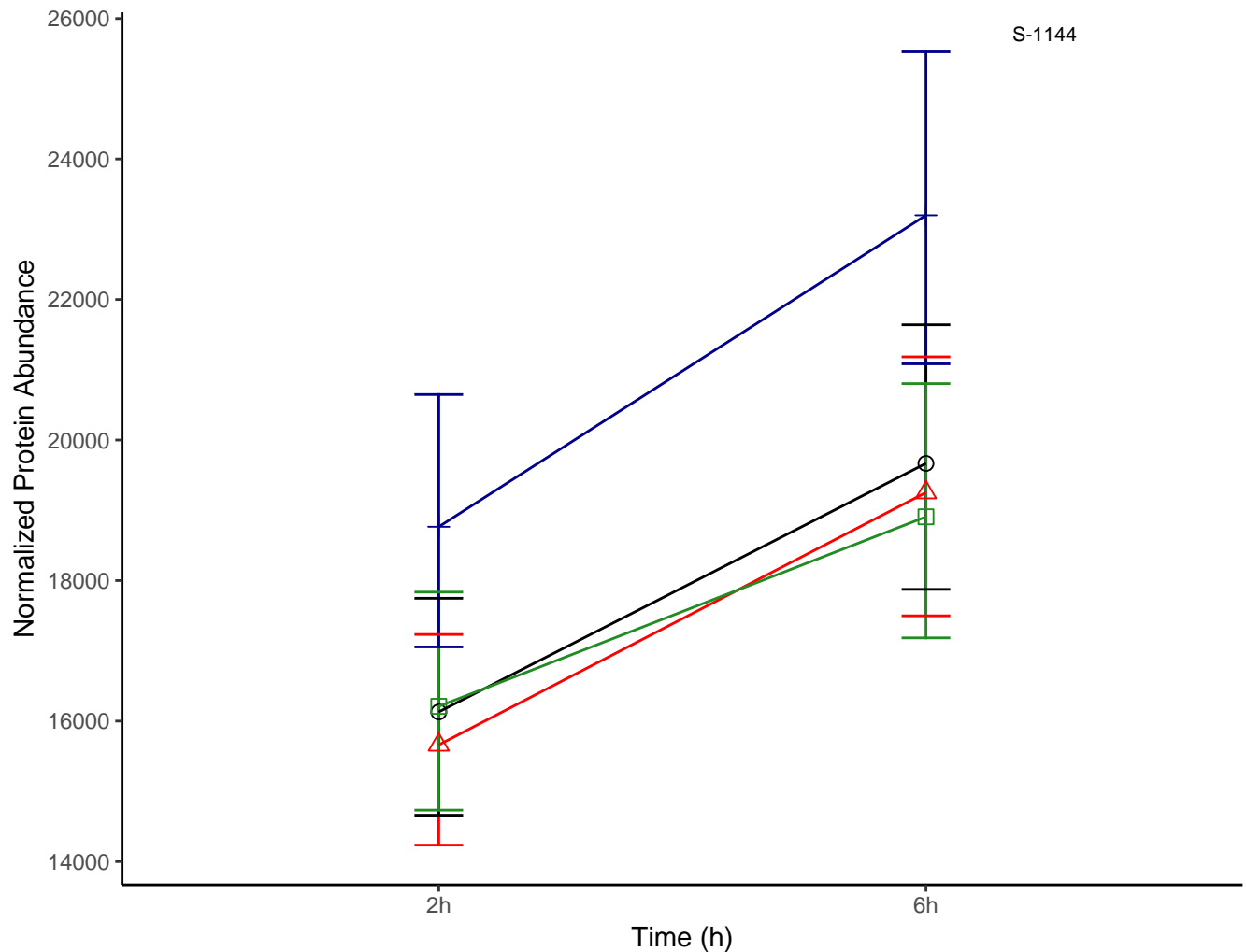
S-1143



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLYA\_STAAM

S-1144

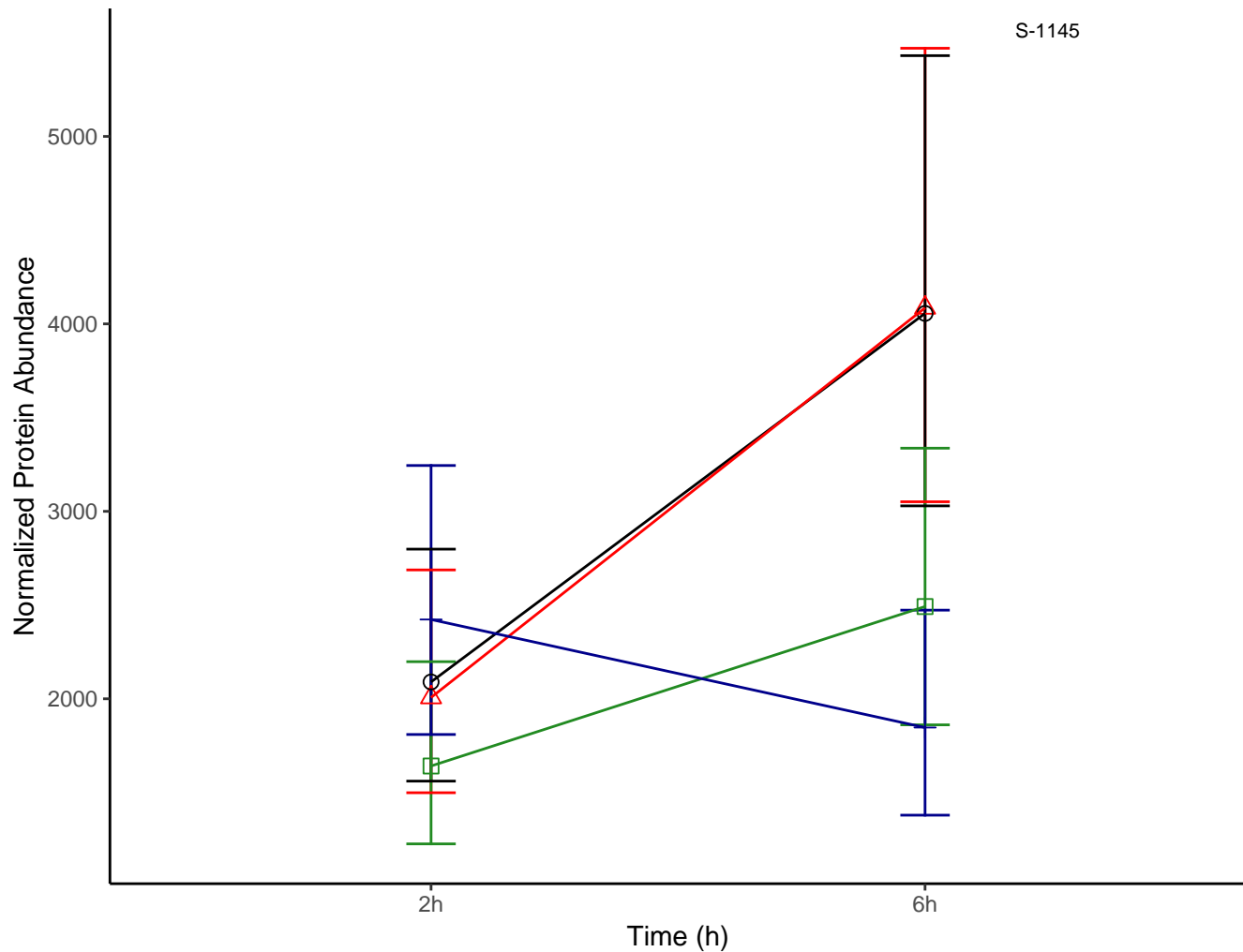


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# GPDA\_STAAM

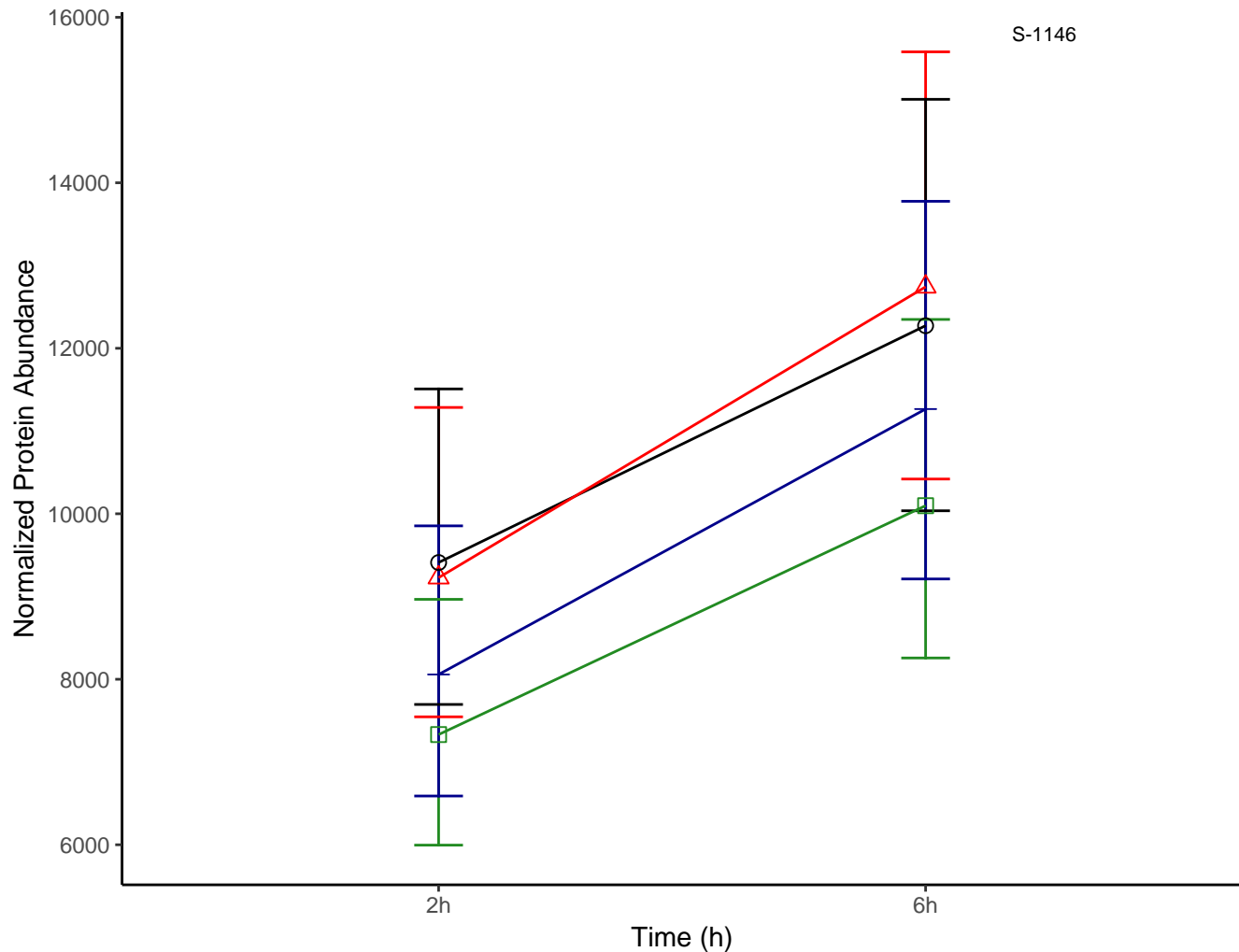
S-1145



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GPMA\_STAAM

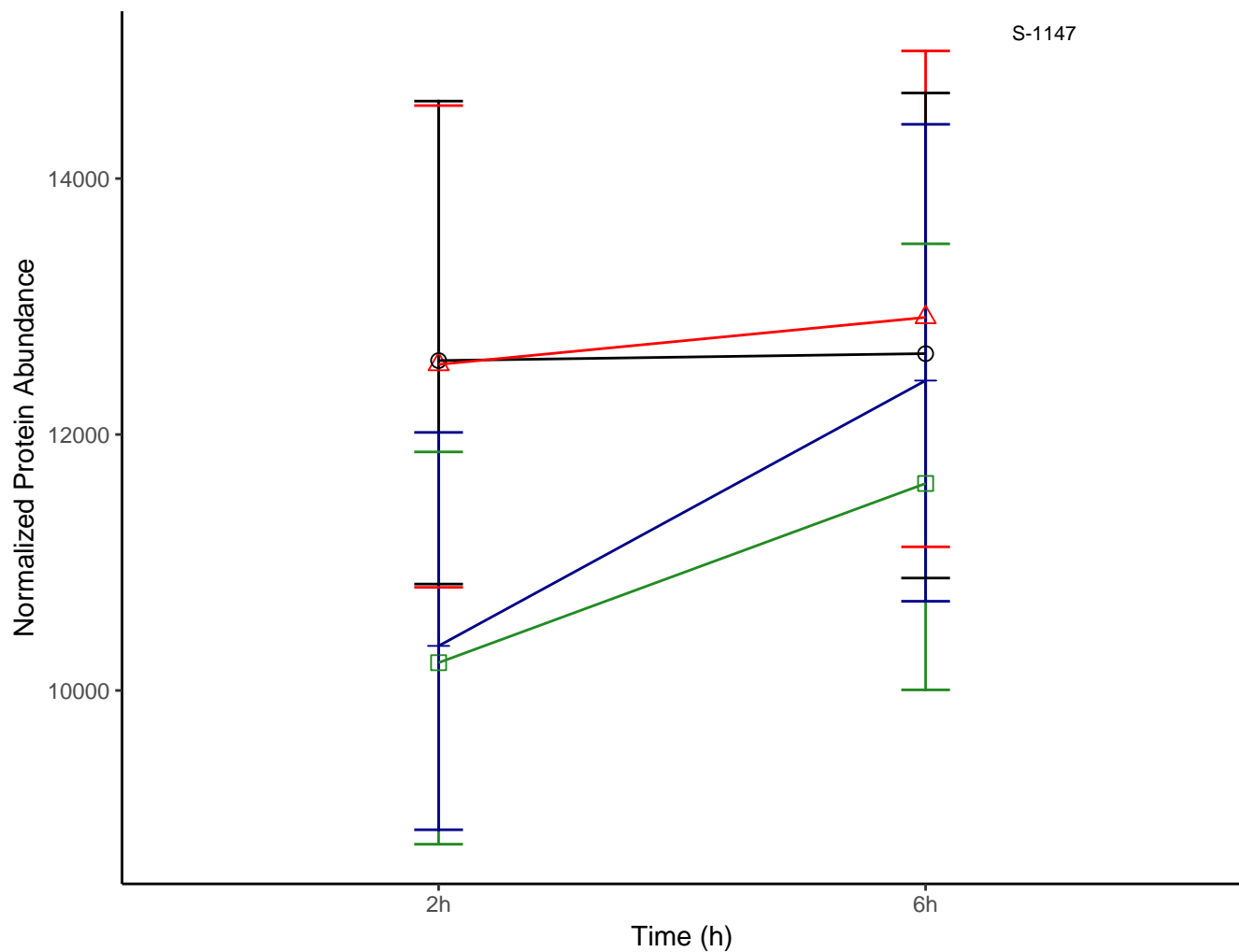
S-1146



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GPMI\_STAAM

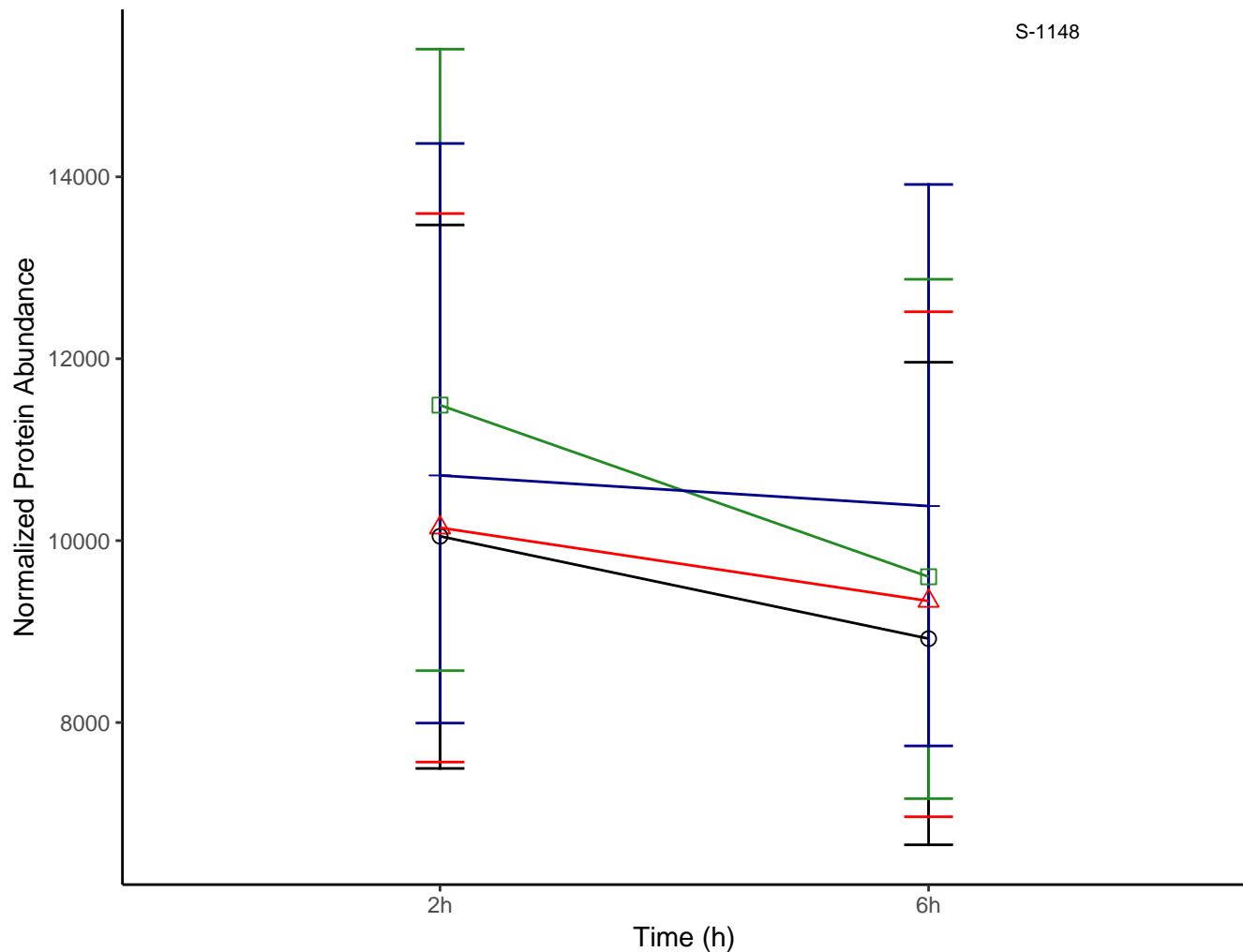
S-1147



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GPSB\_STAAM

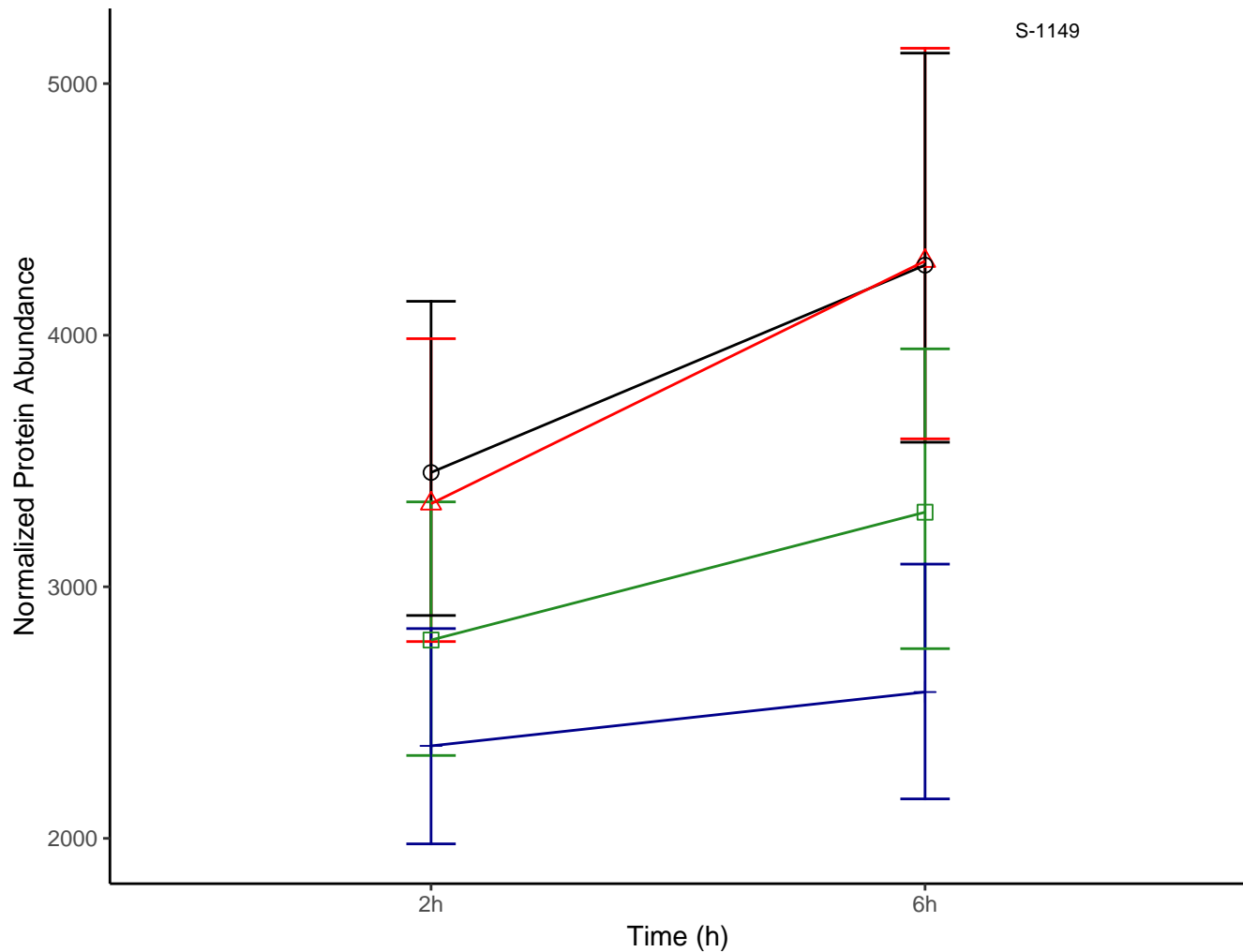
S-1148



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GRAR\_STAAM

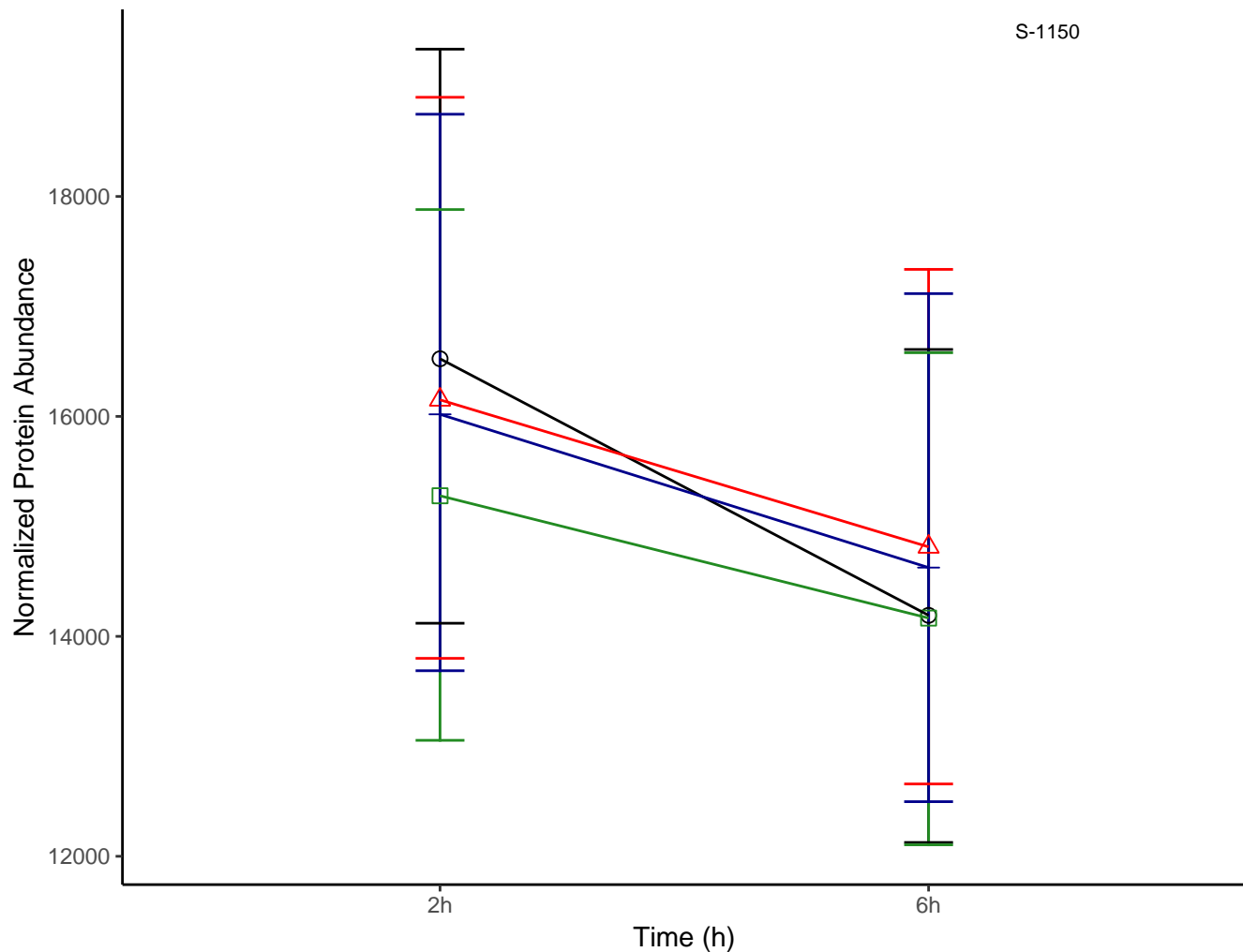
S-1149



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GRE\_A\_STAAM

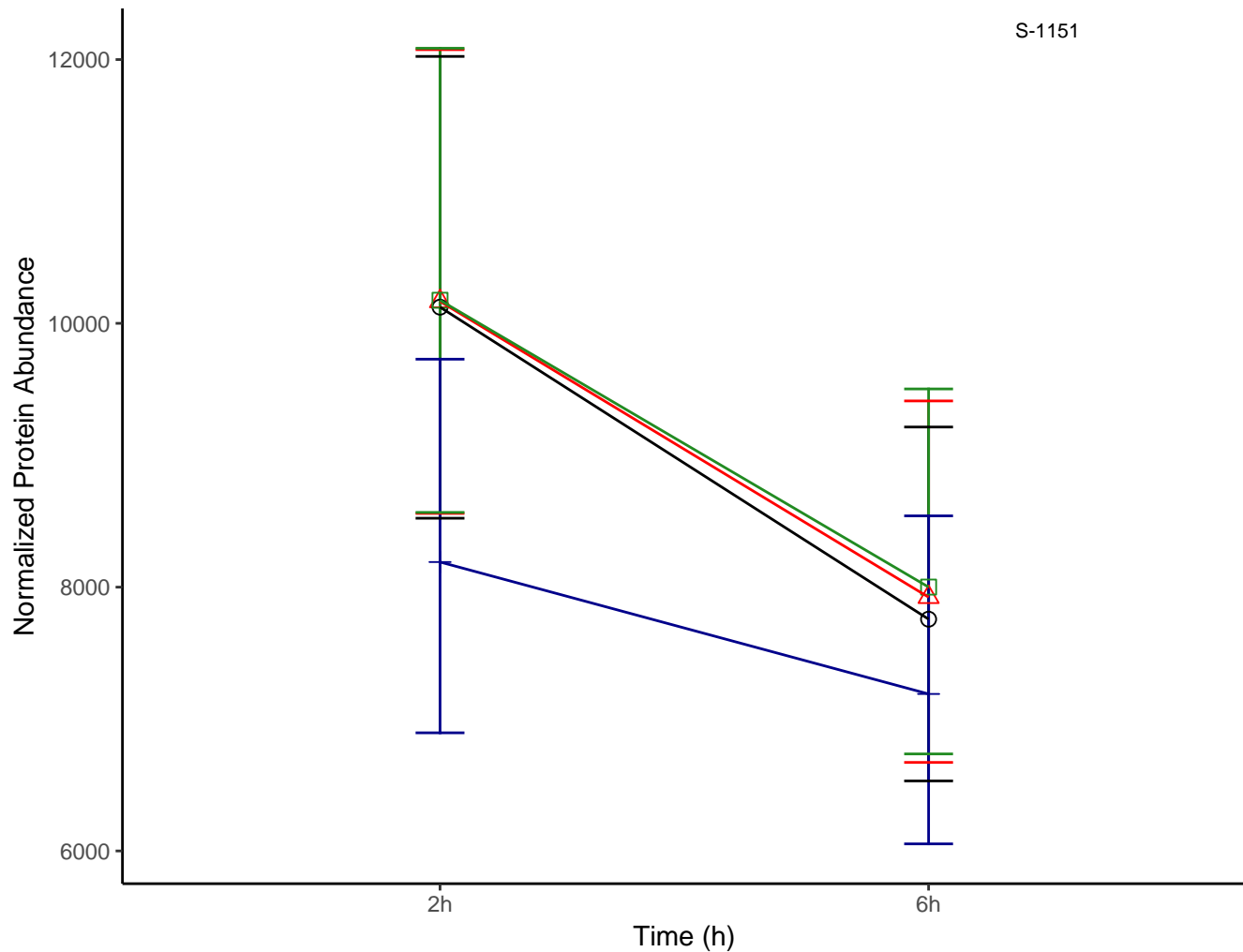
S-1150



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GRPE\_STAAM

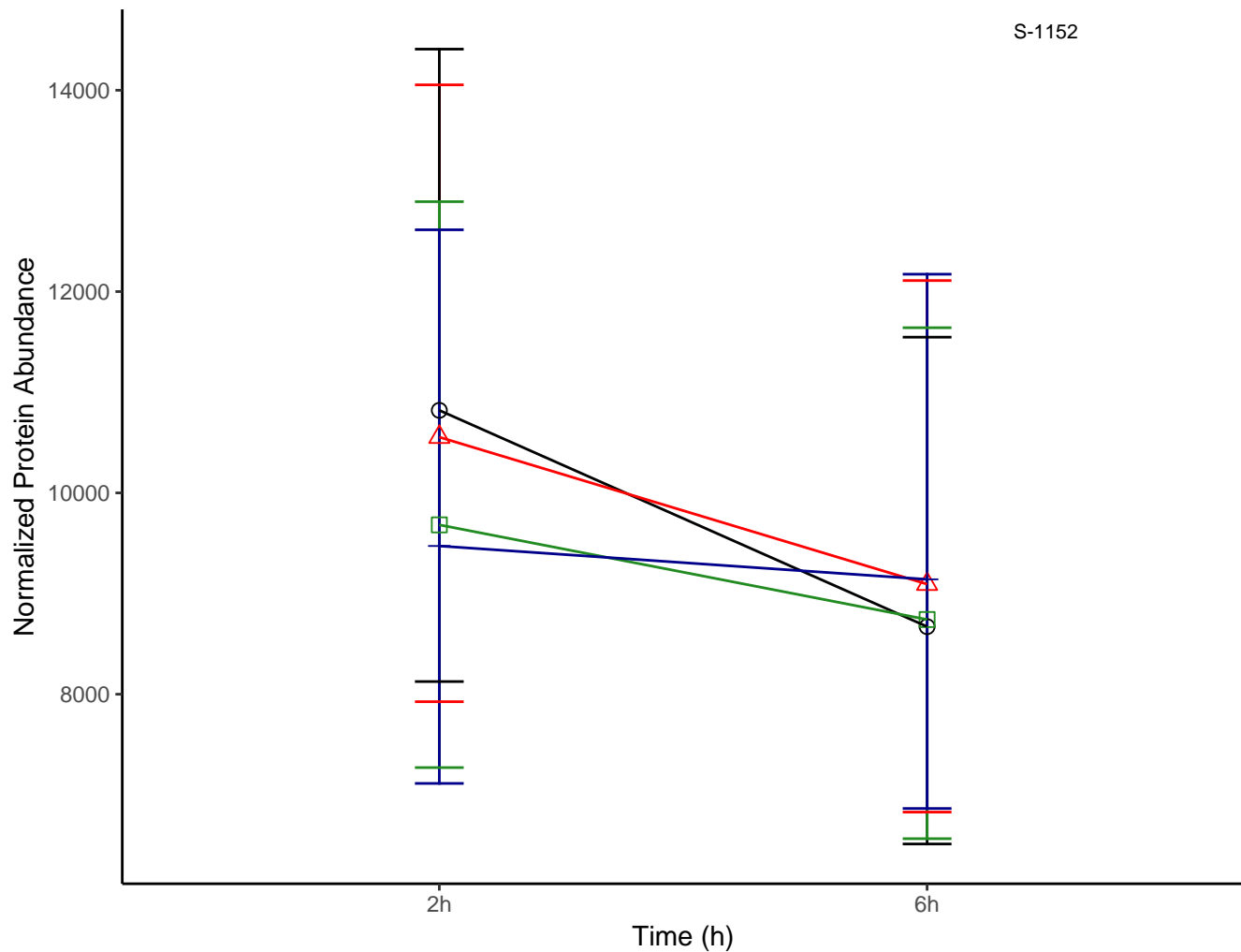
S-1151



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GSA1\_STAAM

S-1152

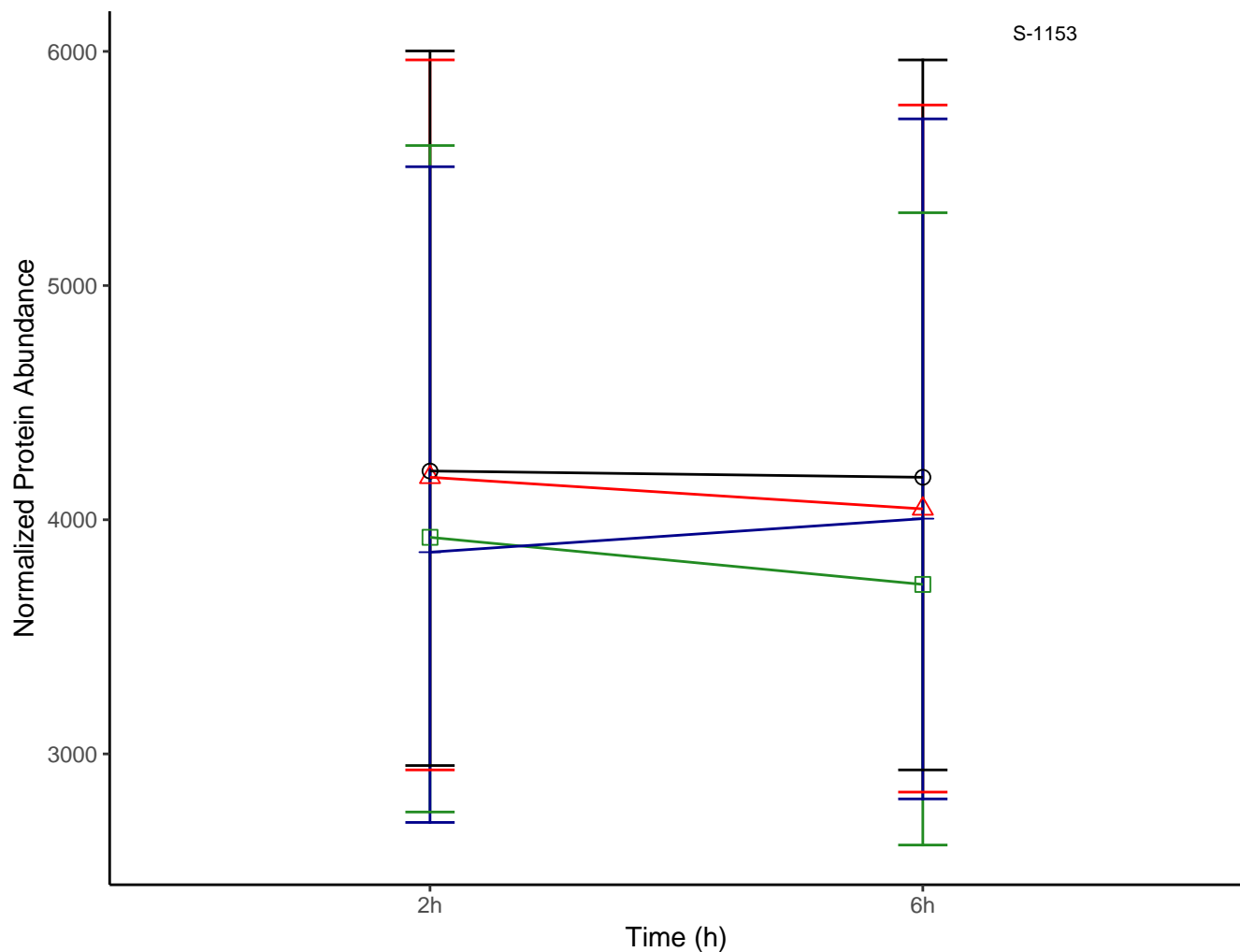


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# GSA2\_STAAM

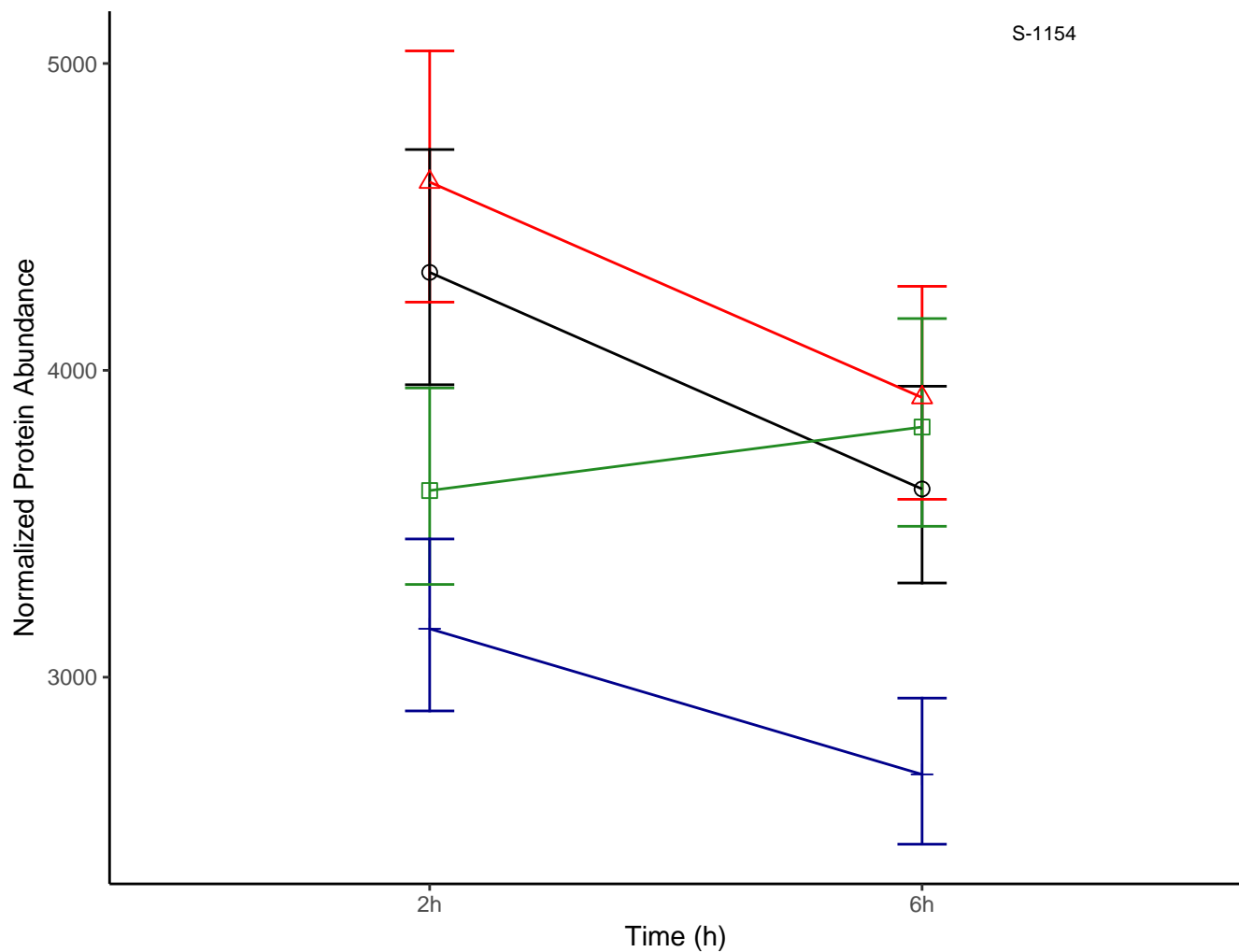
S-1153



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# GTAB\_STAAM

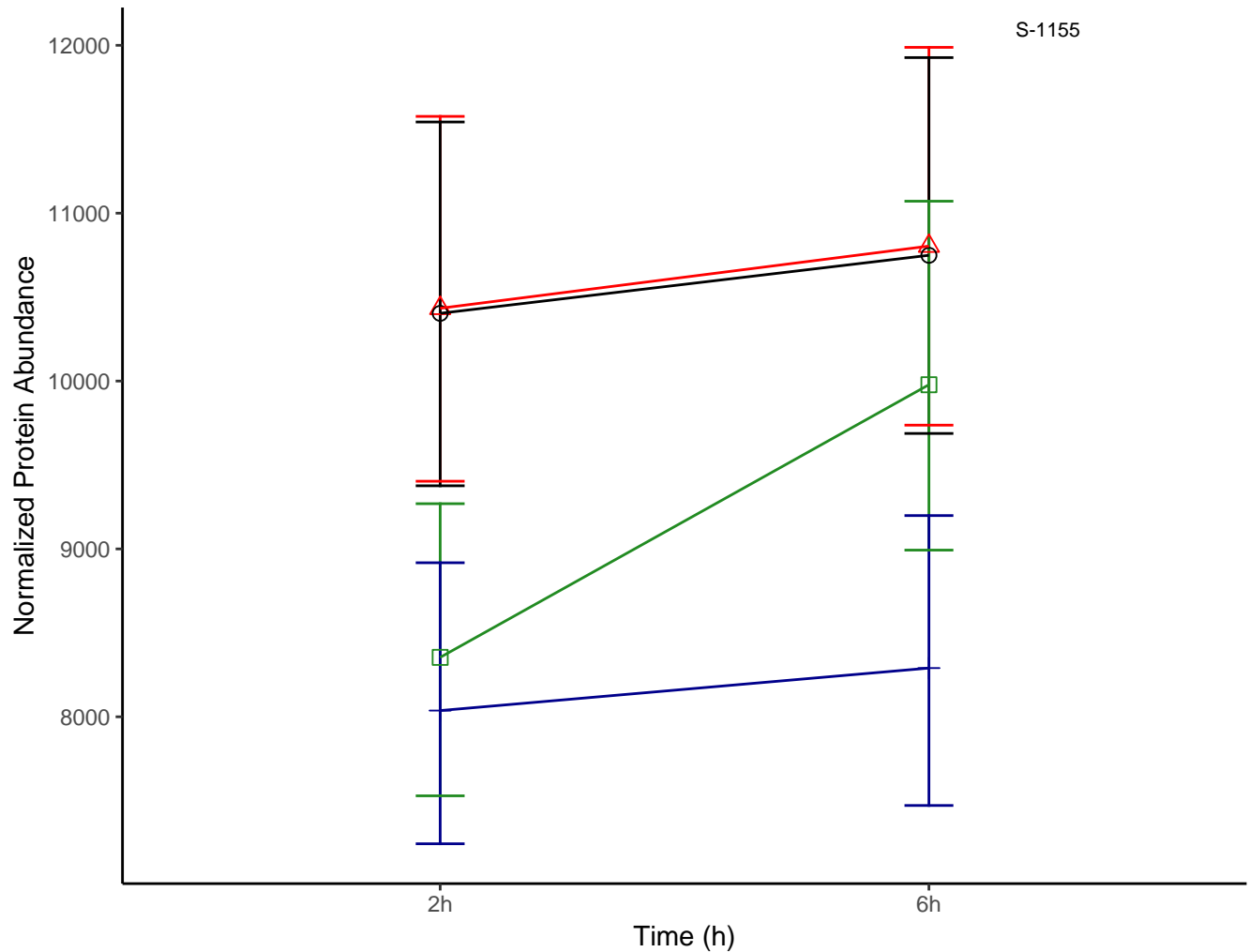
S-1154



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GUA<sub>A</sub>\_STAAM

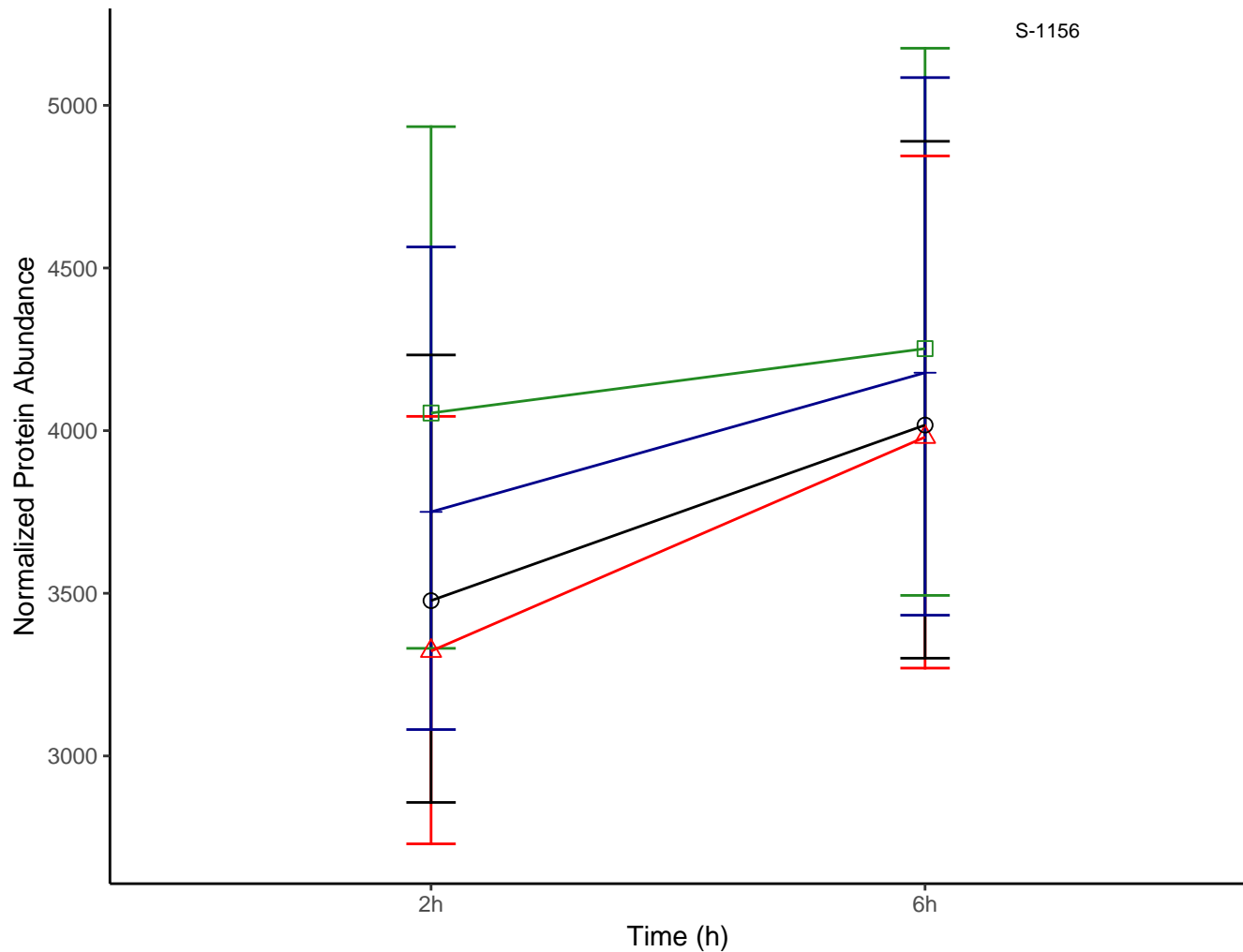
S-1155



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GUAC\_STAAM

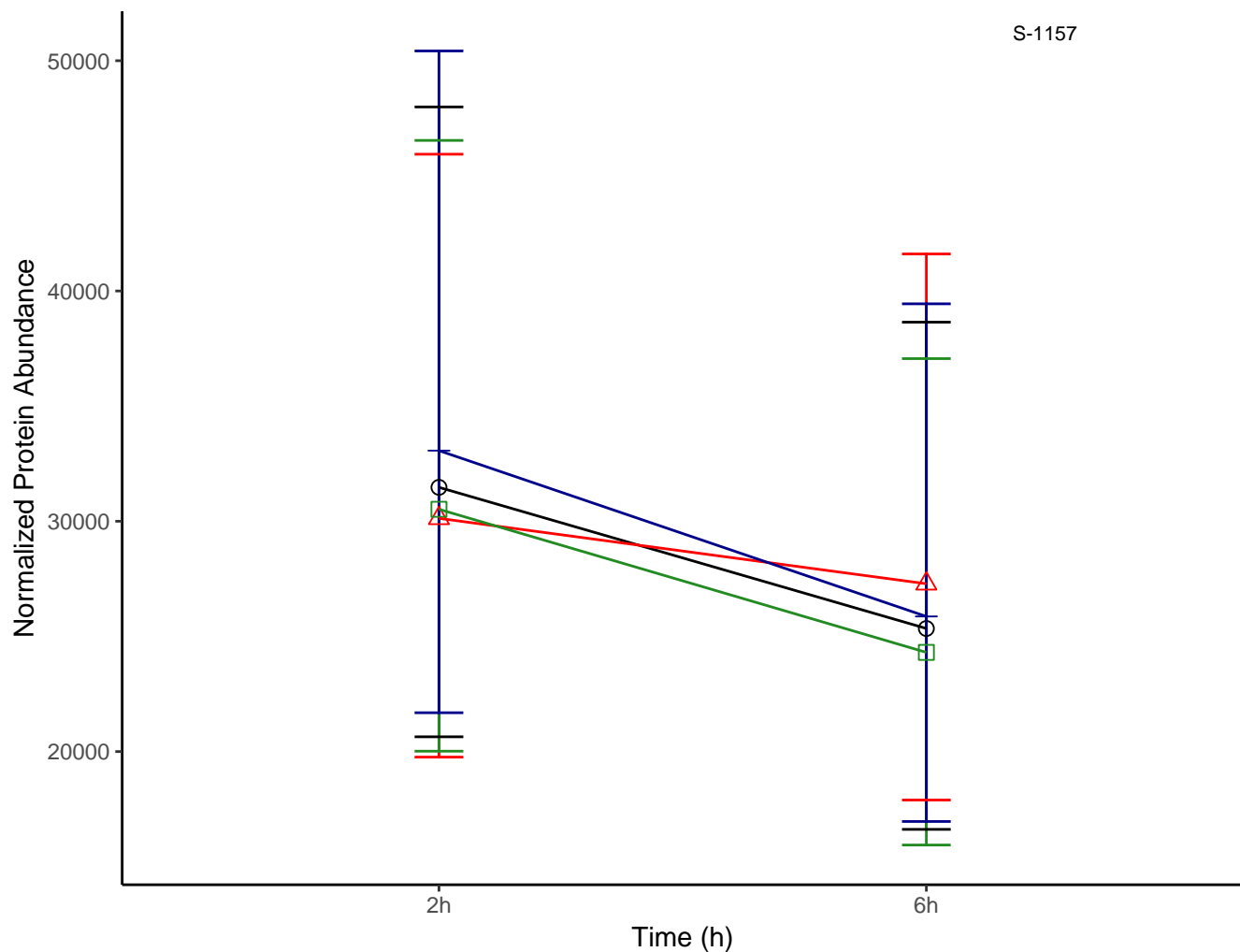
S-1156



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GYRB\_STAAM

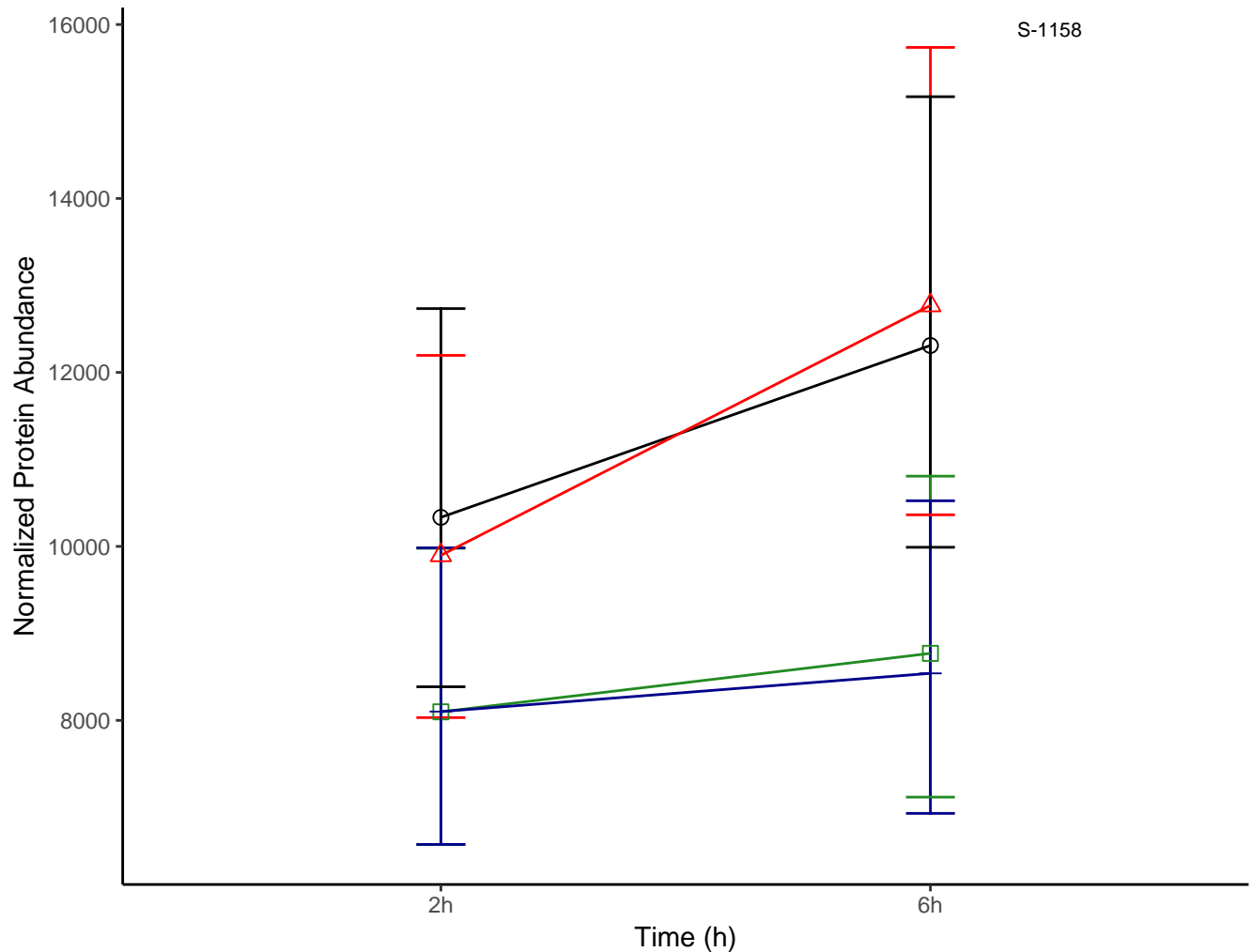
S-1157



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HCHA\_STAAM

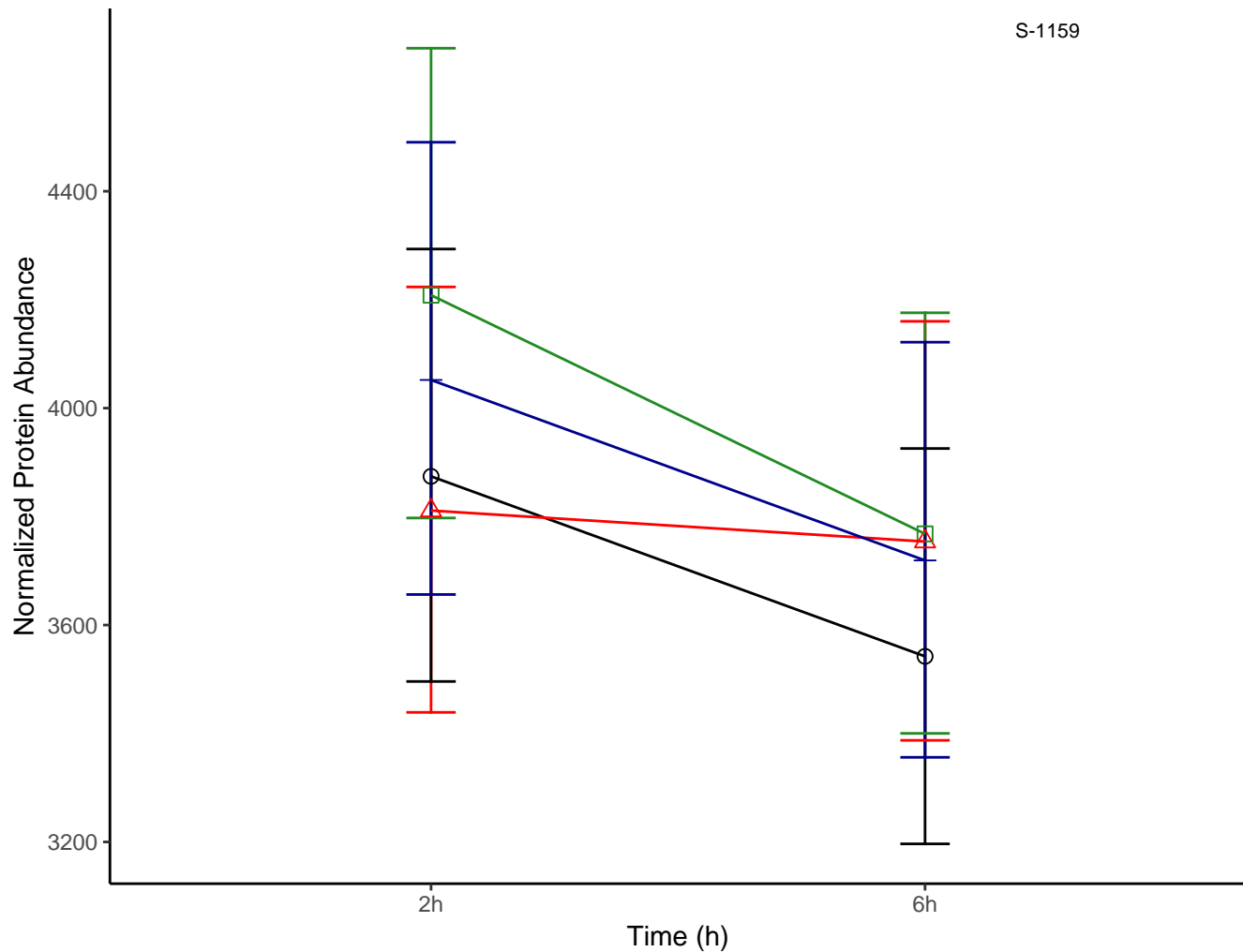
S-1158



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HEM2\_STAAM

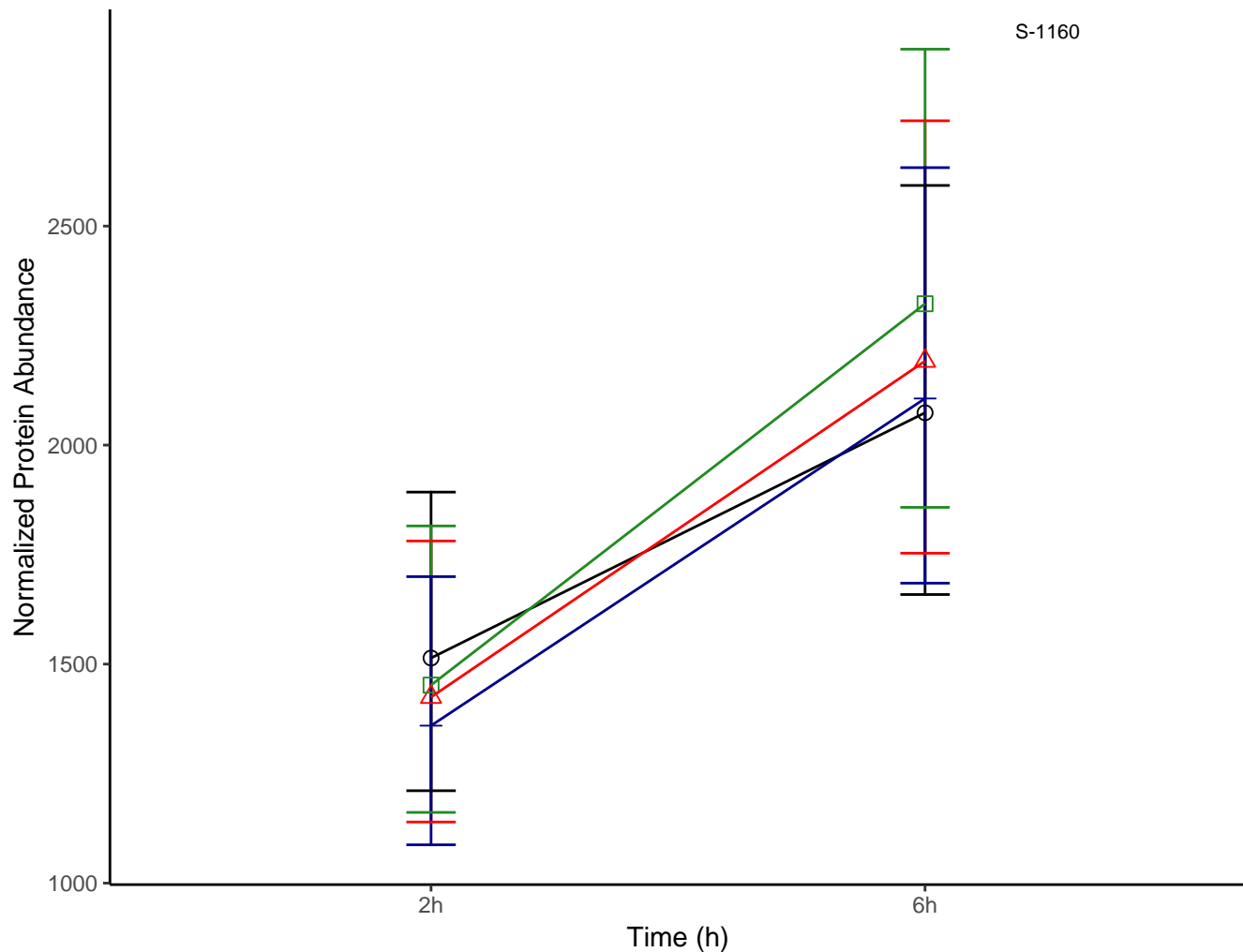
S-1159



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HEM3\_STAAM

S-1160

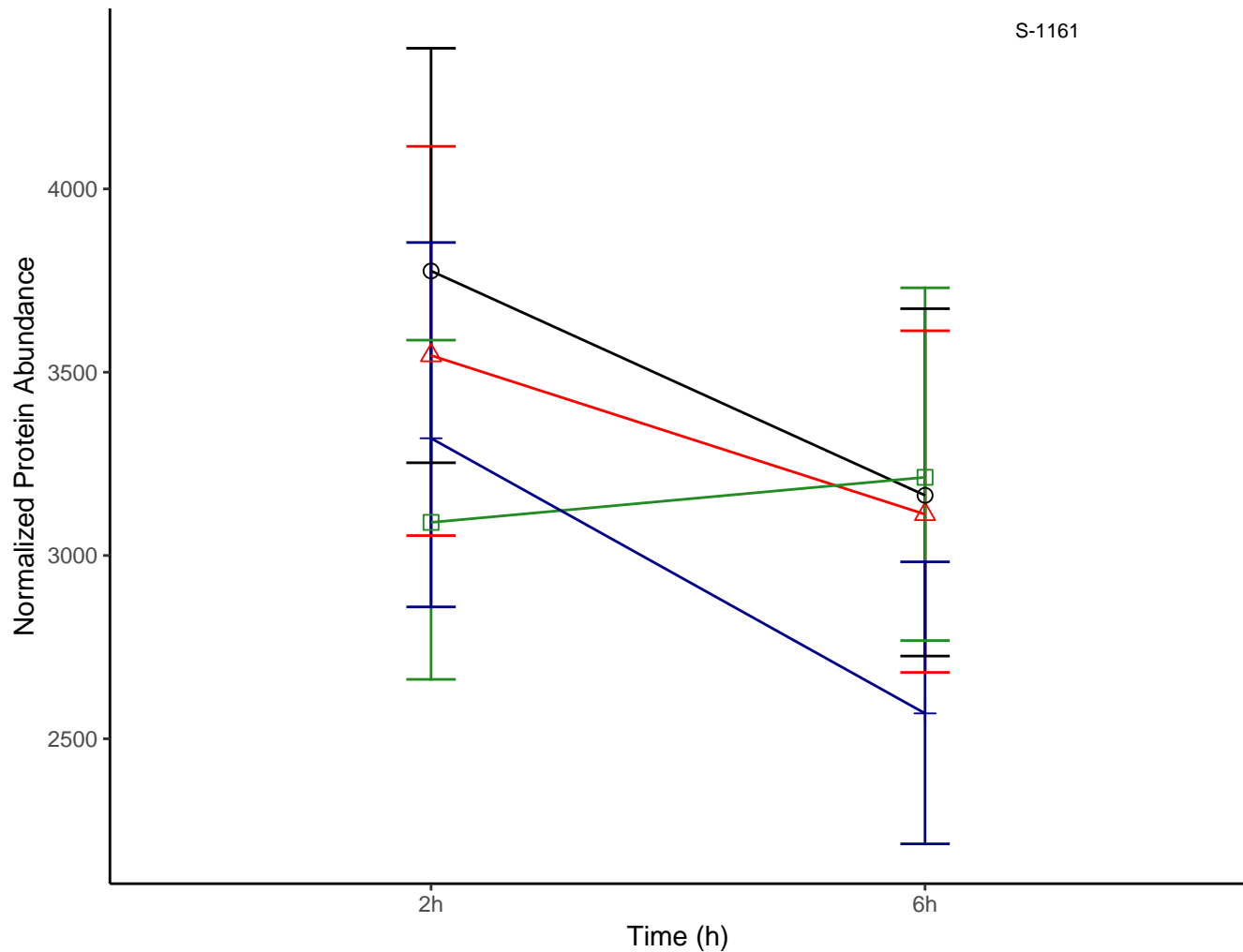


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# HLD\_STAAM

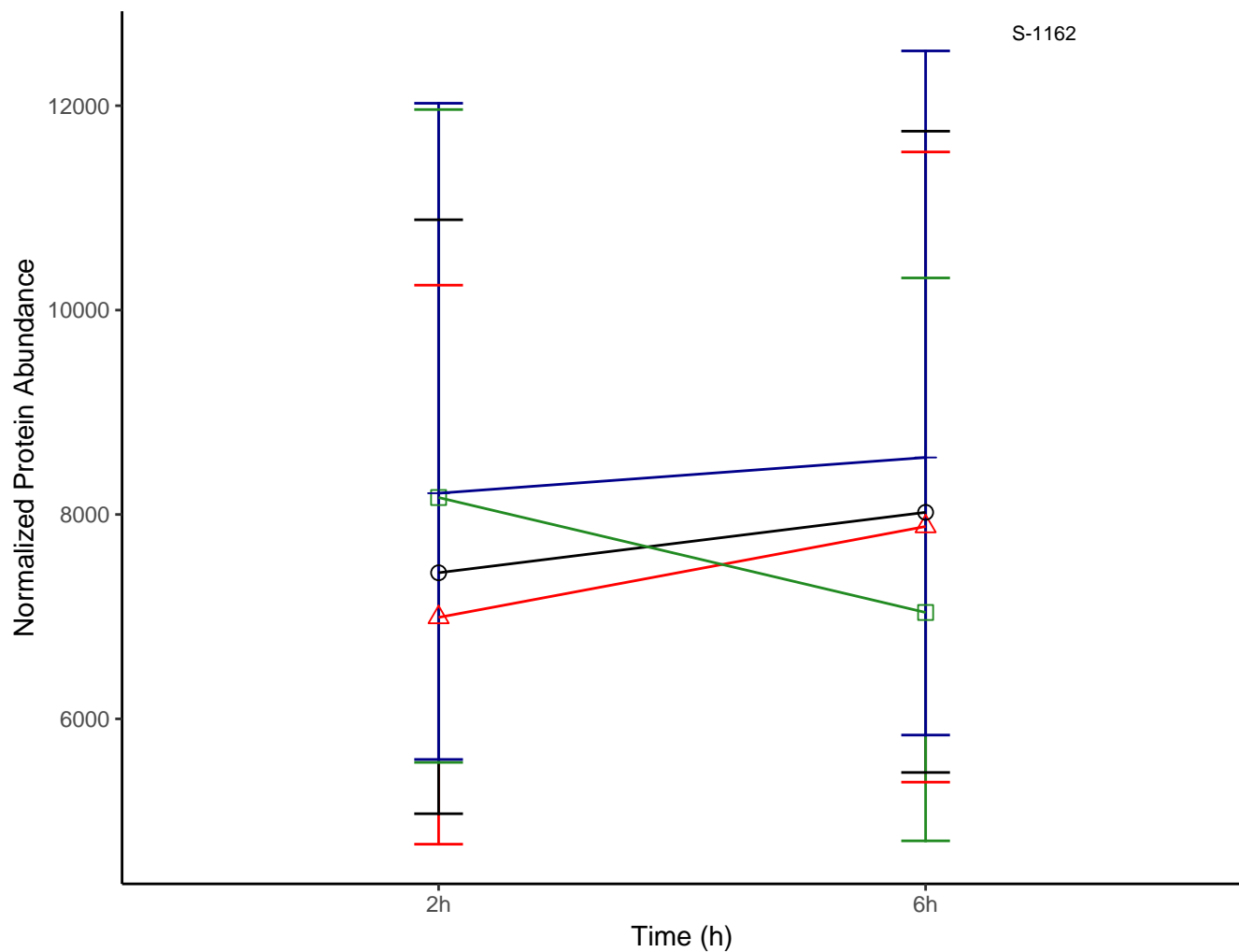
S-1161



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HPRK\_STAAM

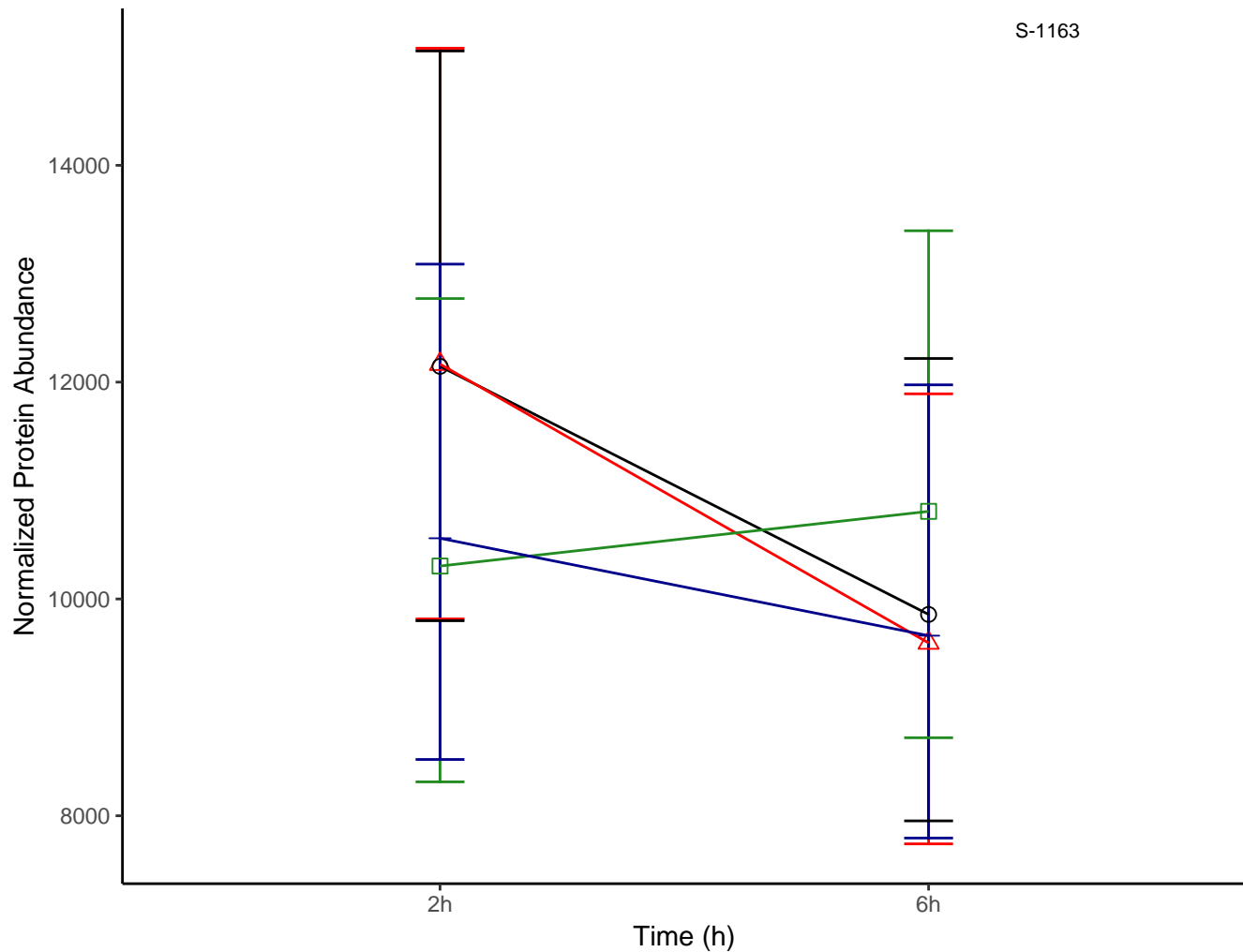
S-1162



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HPRT\_STAAM

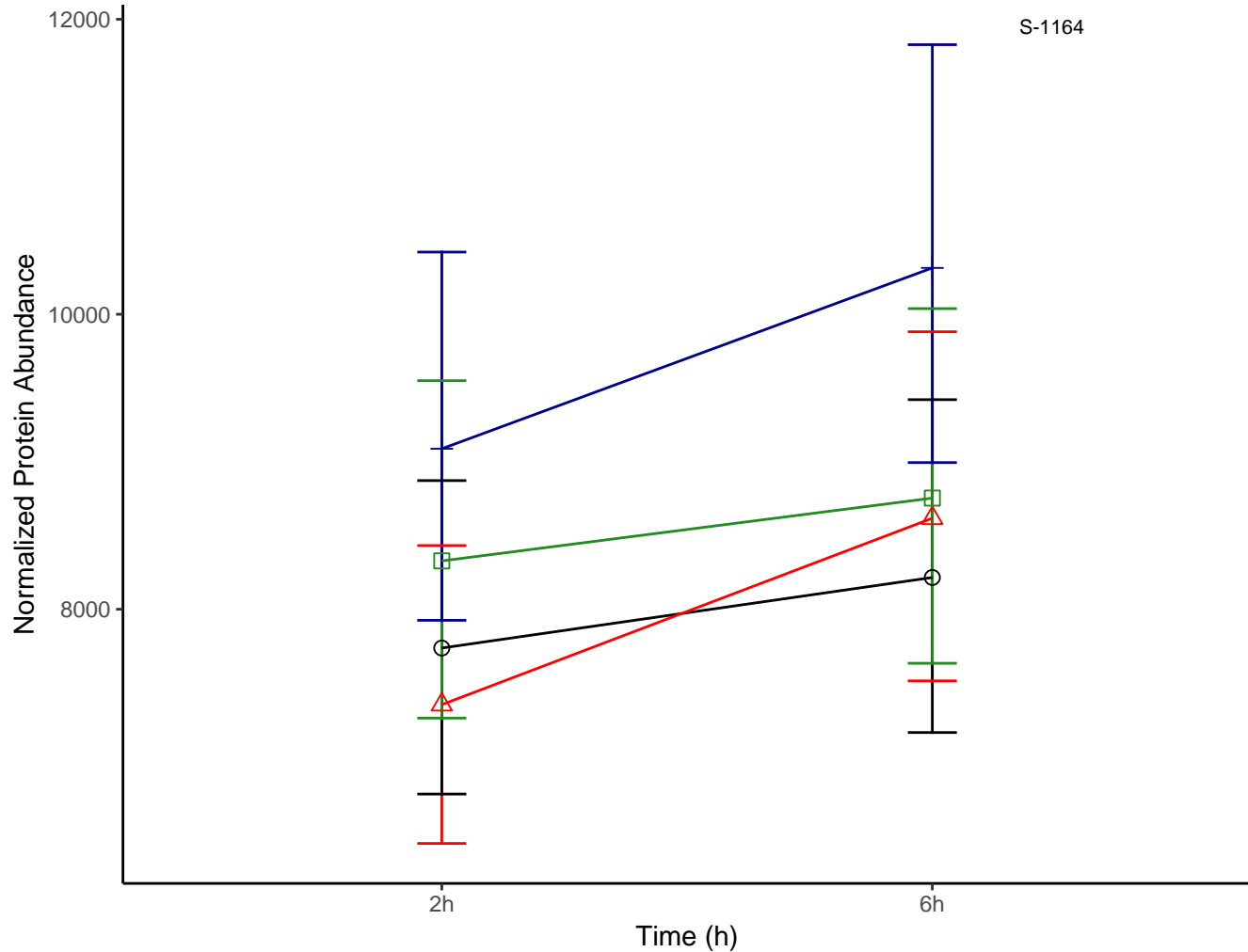
S-1163



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HPS\_STAAM

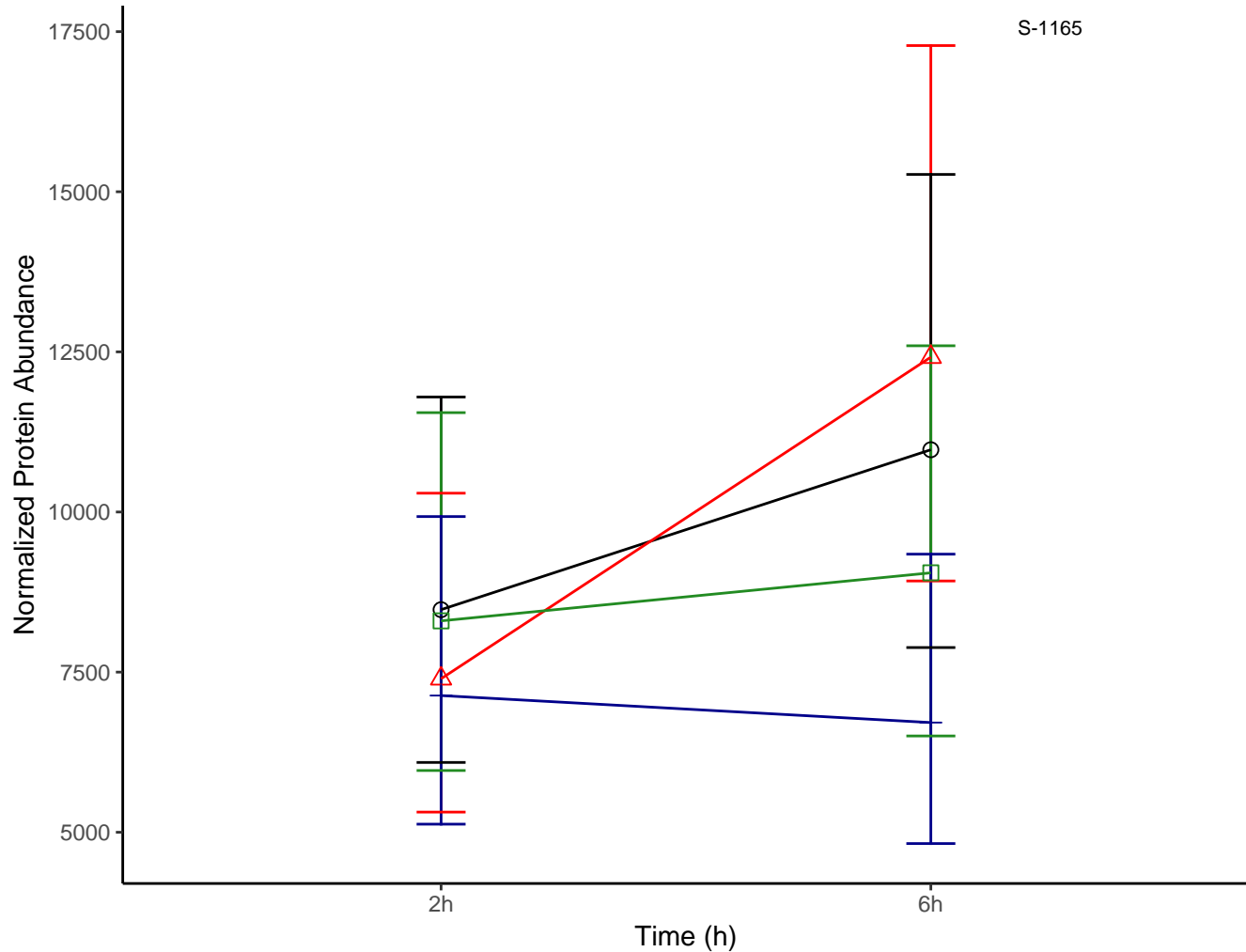
S-1164



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HRTA\_STAAM

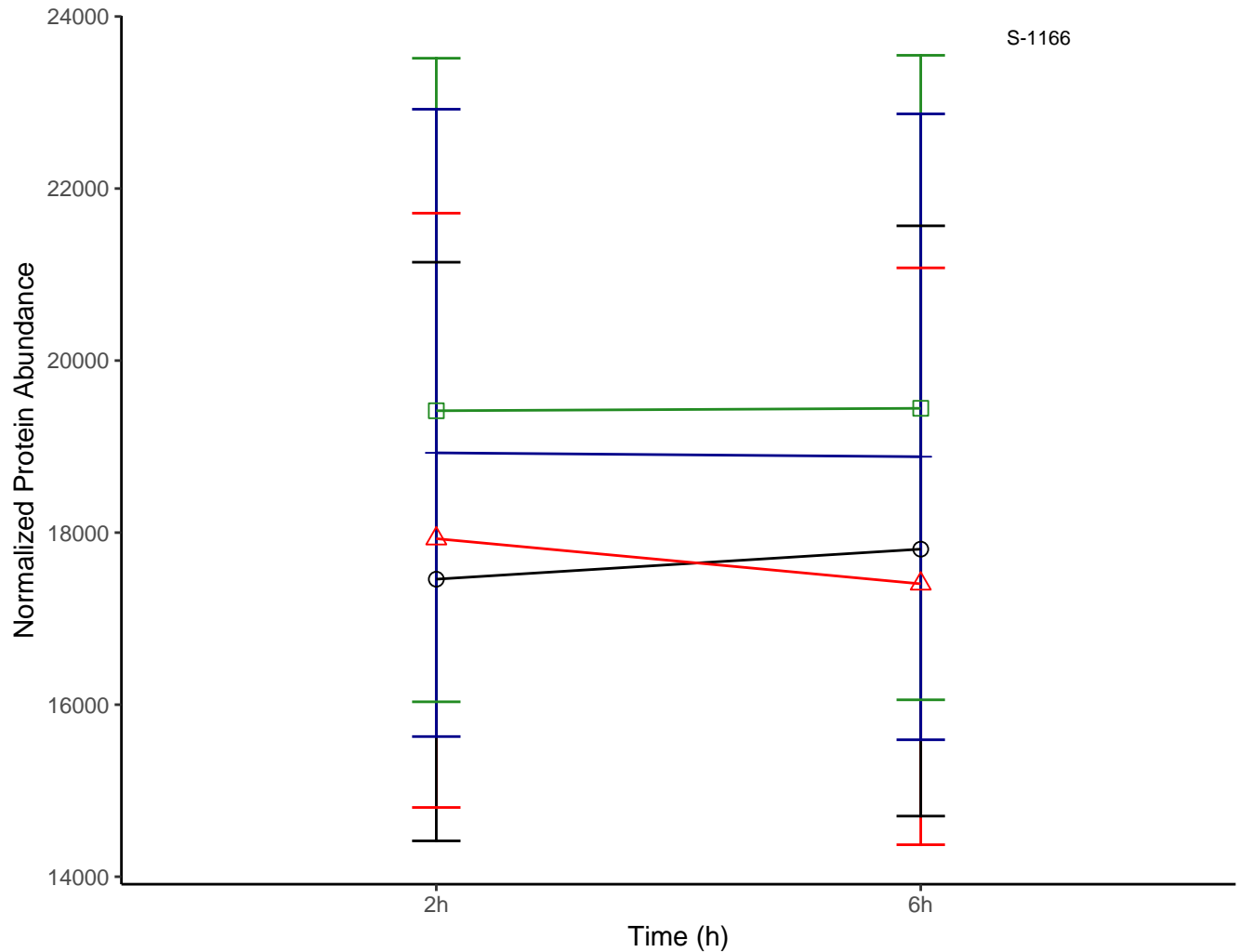
S-1165



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HSLO\_STAAM

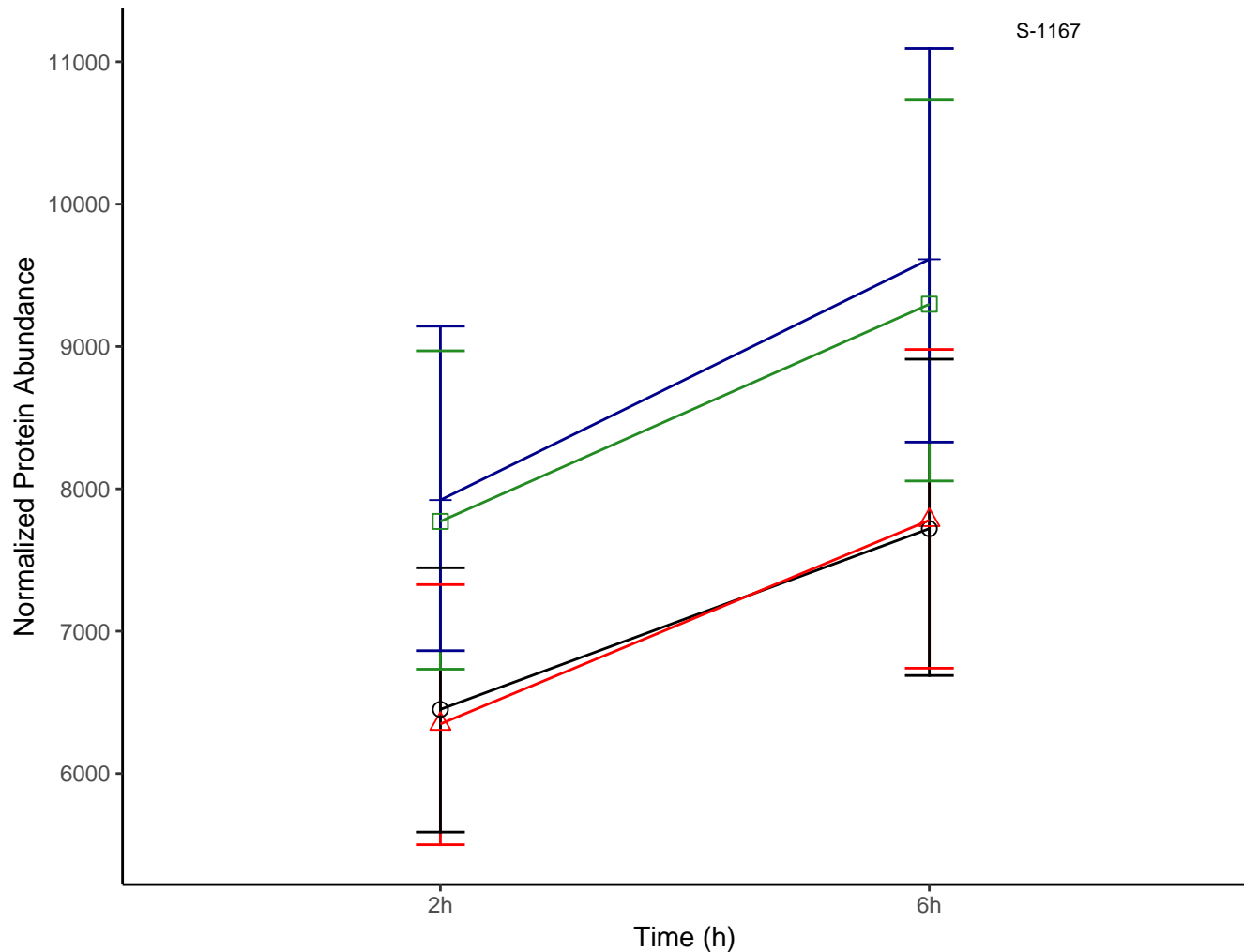
S-1166



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HSLU\_STAAM

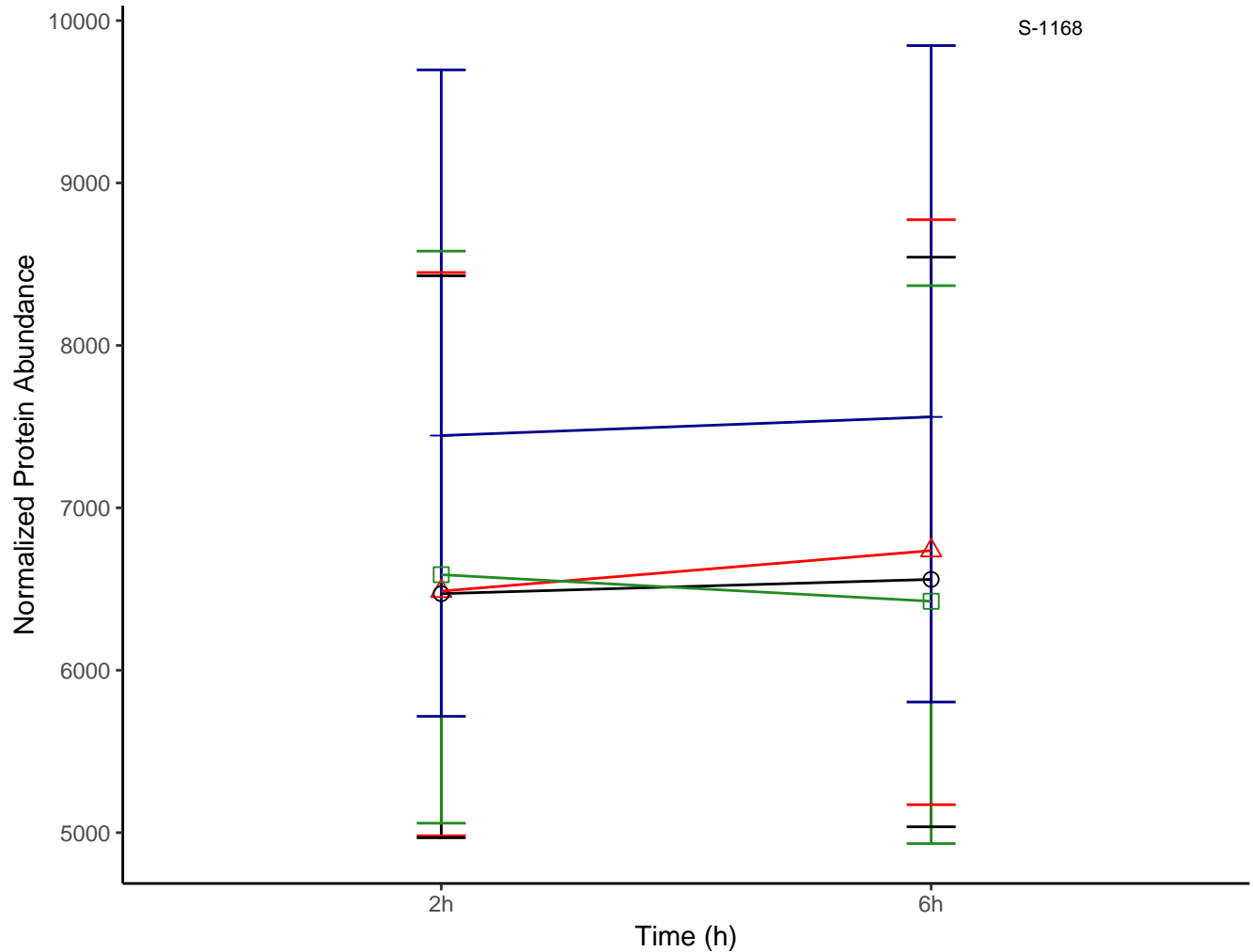
S-1167



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HSLV\_STAAM

S-1168

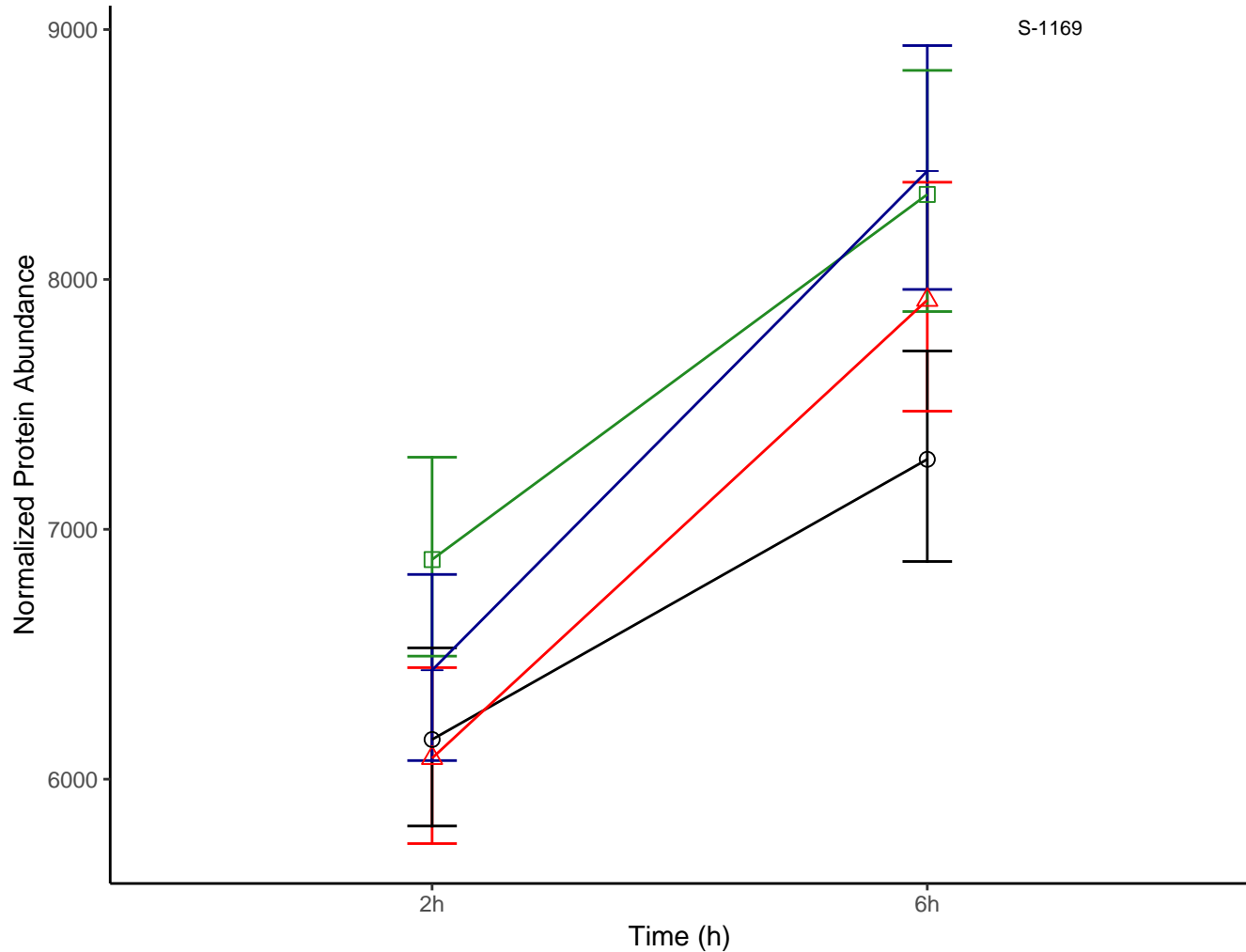


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# HUTH\_STAAM

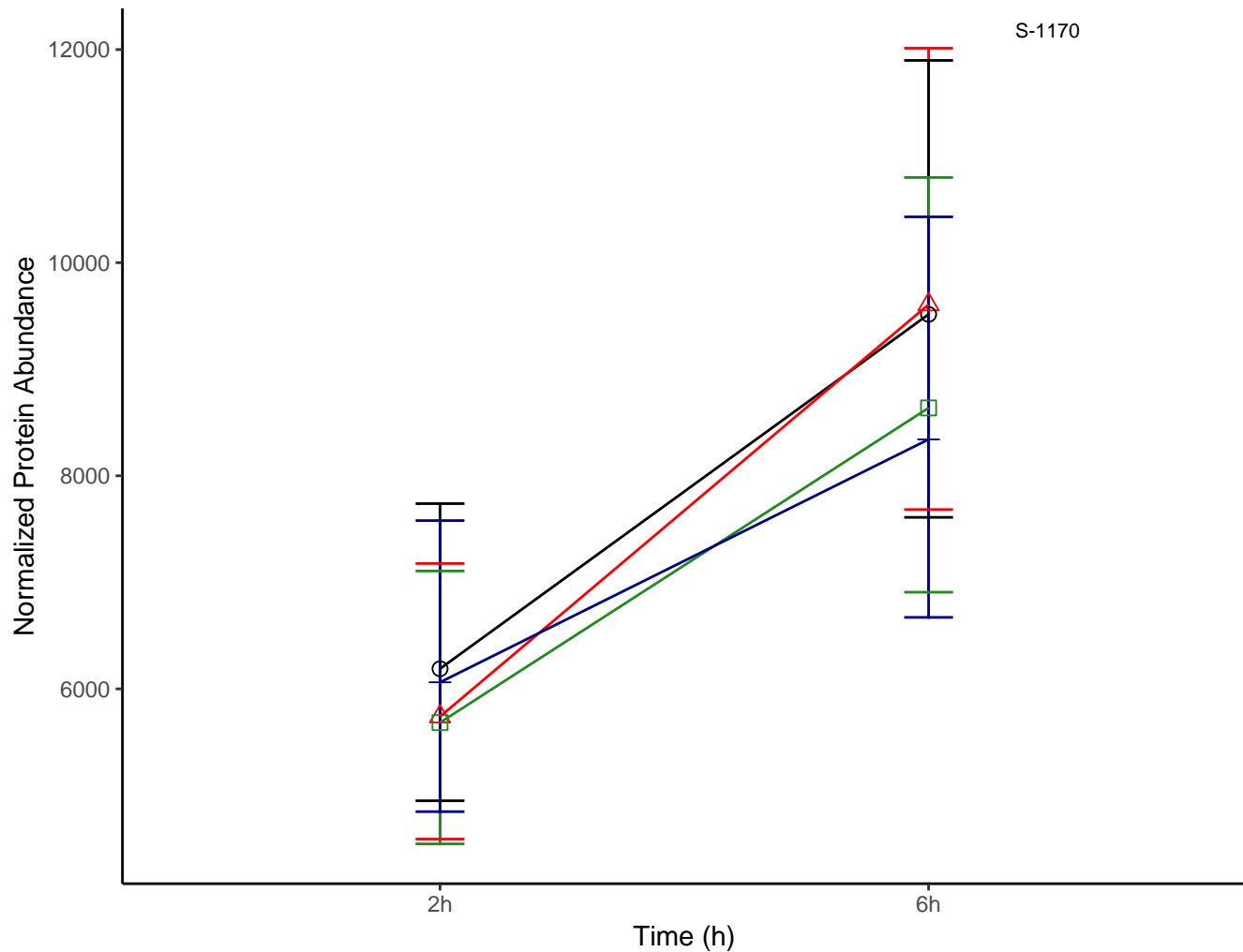
S-1169



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HUTI\_STAAM

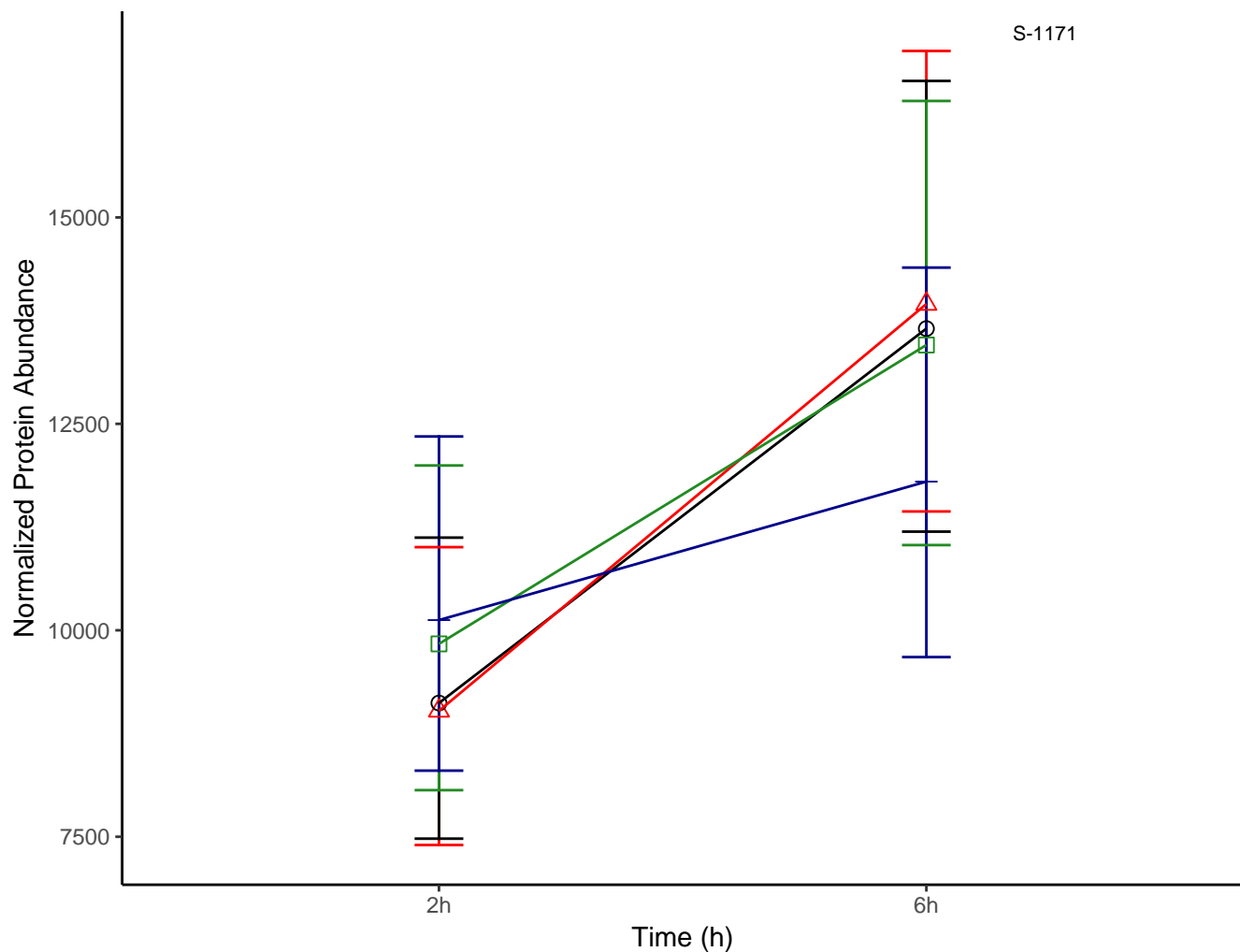
S-1170



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# HUTU\_STAAM

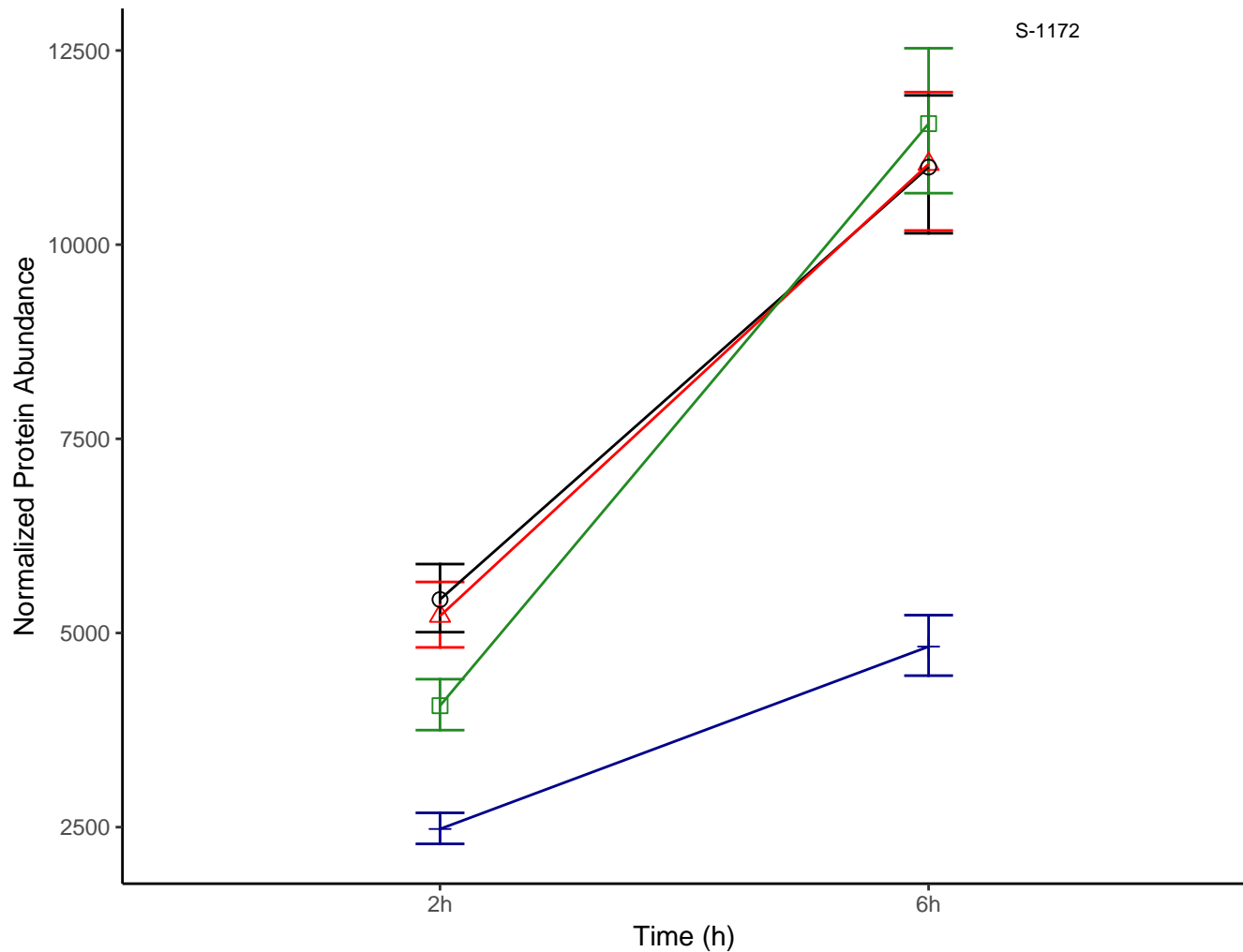
S-1171



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ICAB\_STAAM

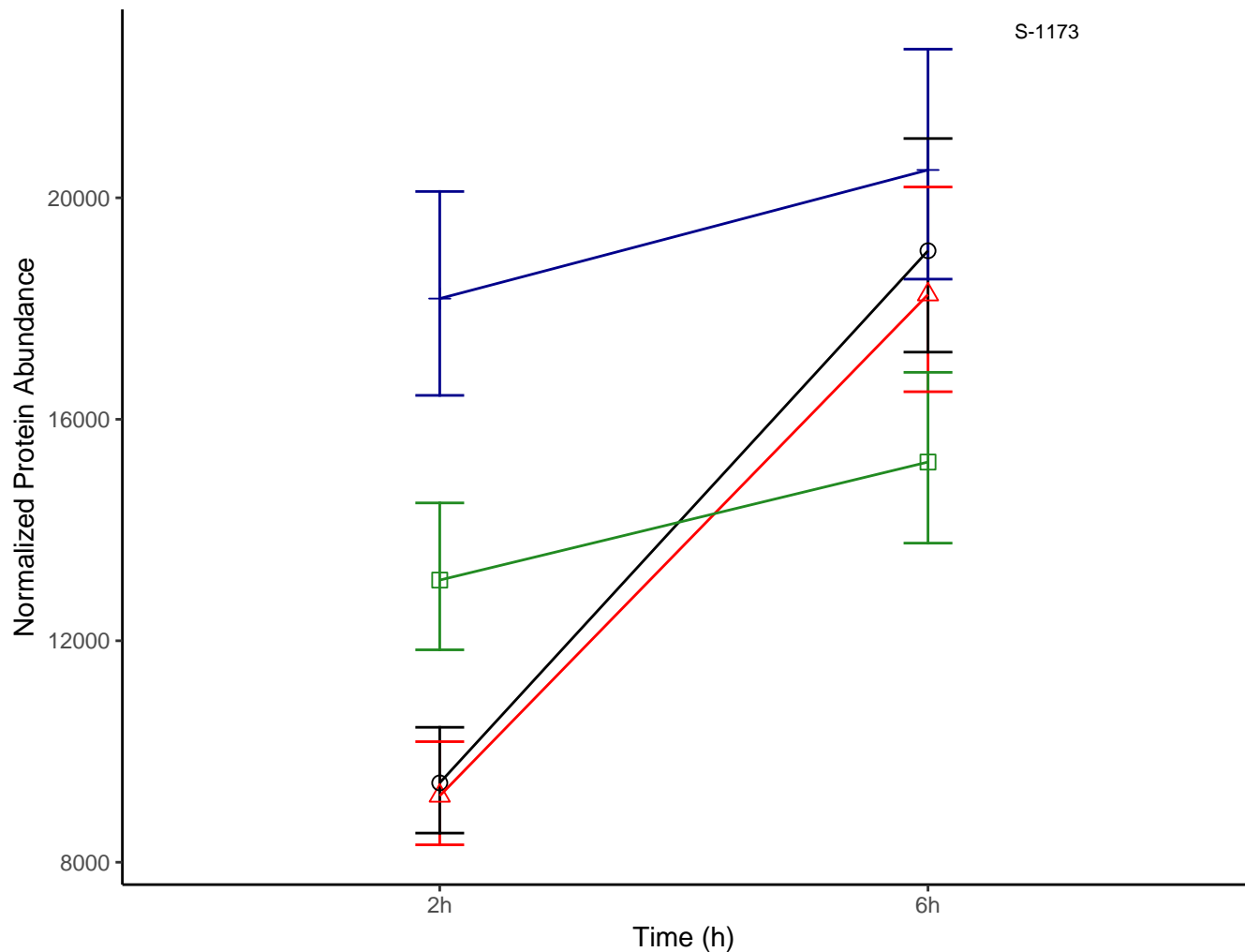
S-1172



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IDH\_STAAM

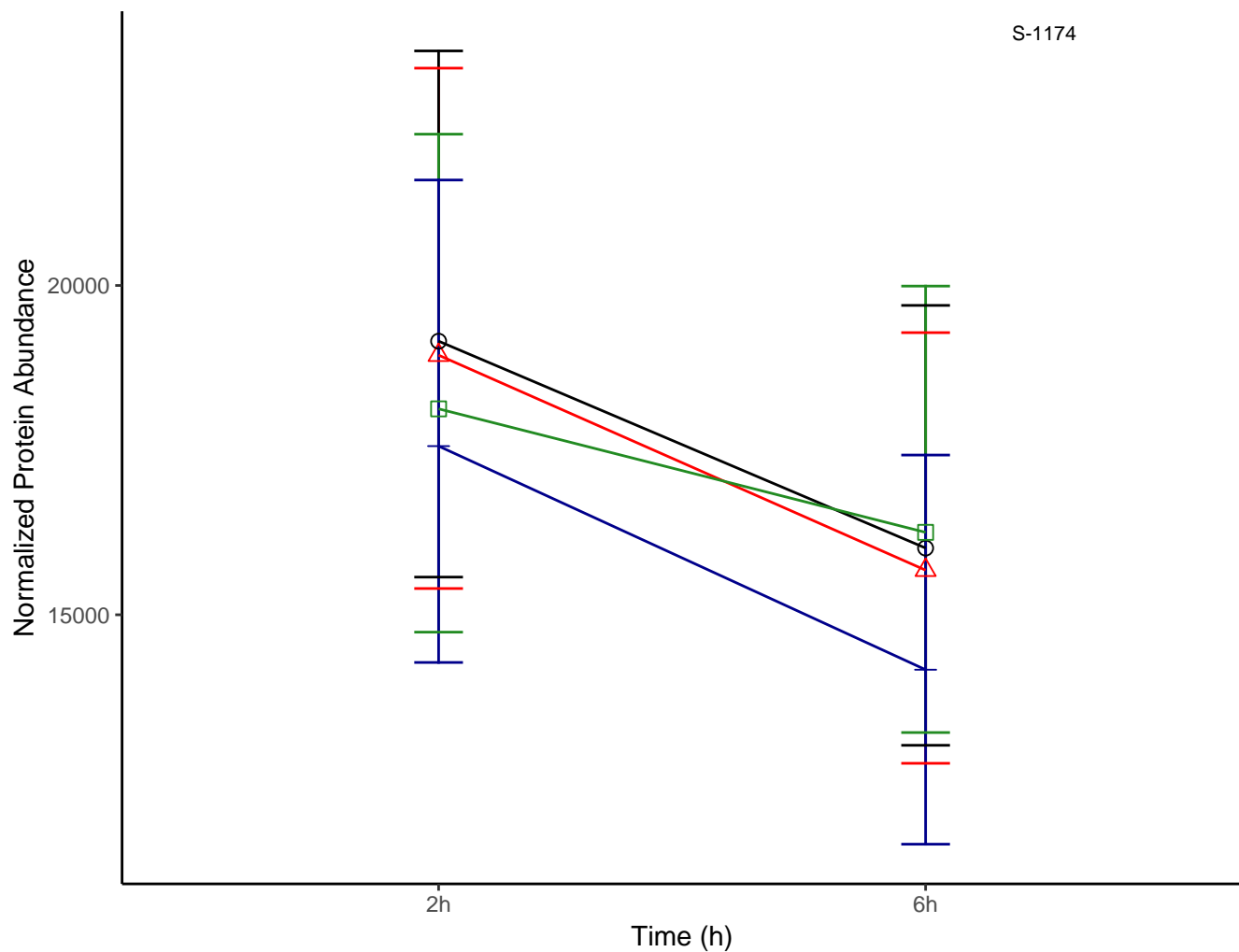
S-1173



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## IF1\_STAAM

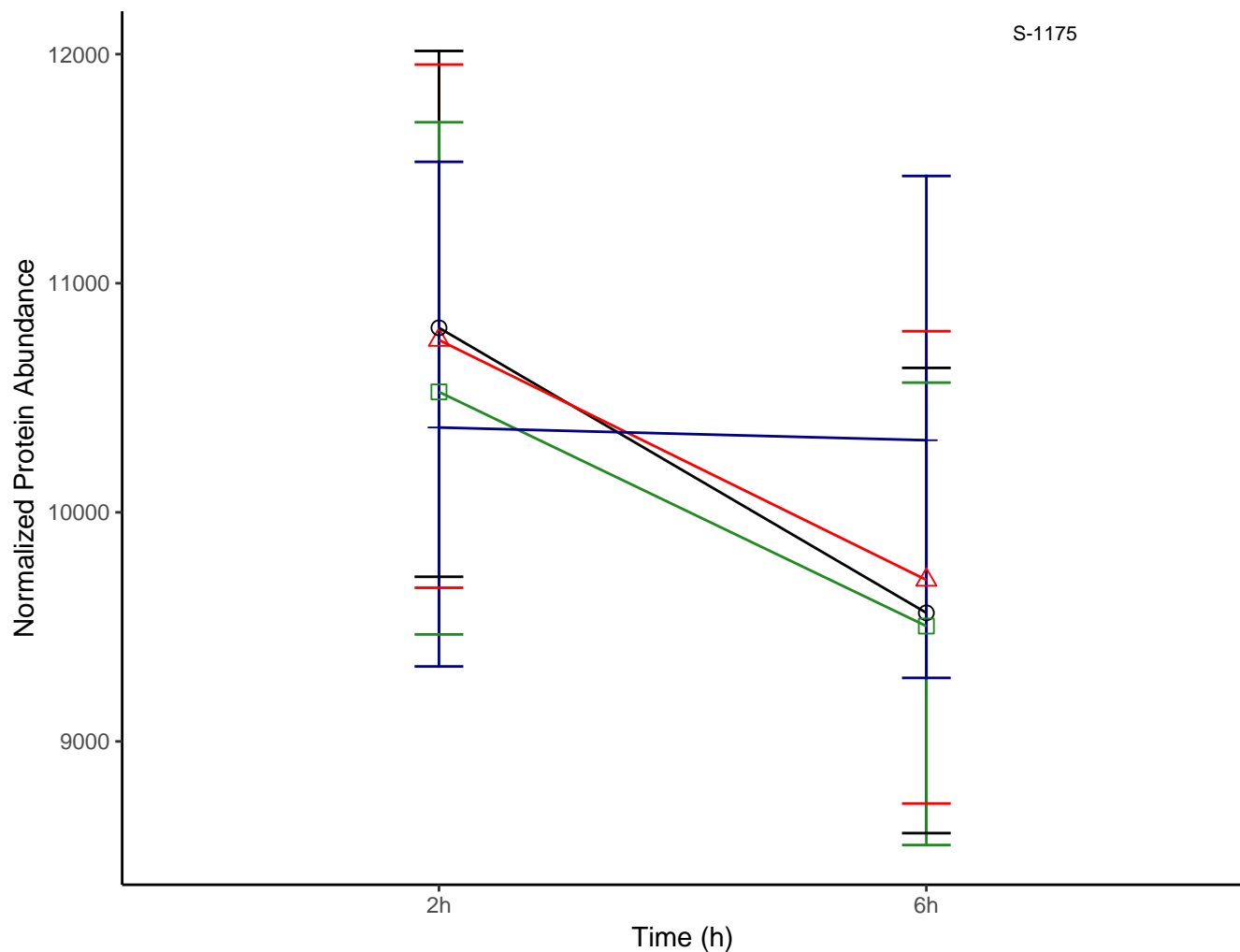
S-1174



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# IF2\_STAAM

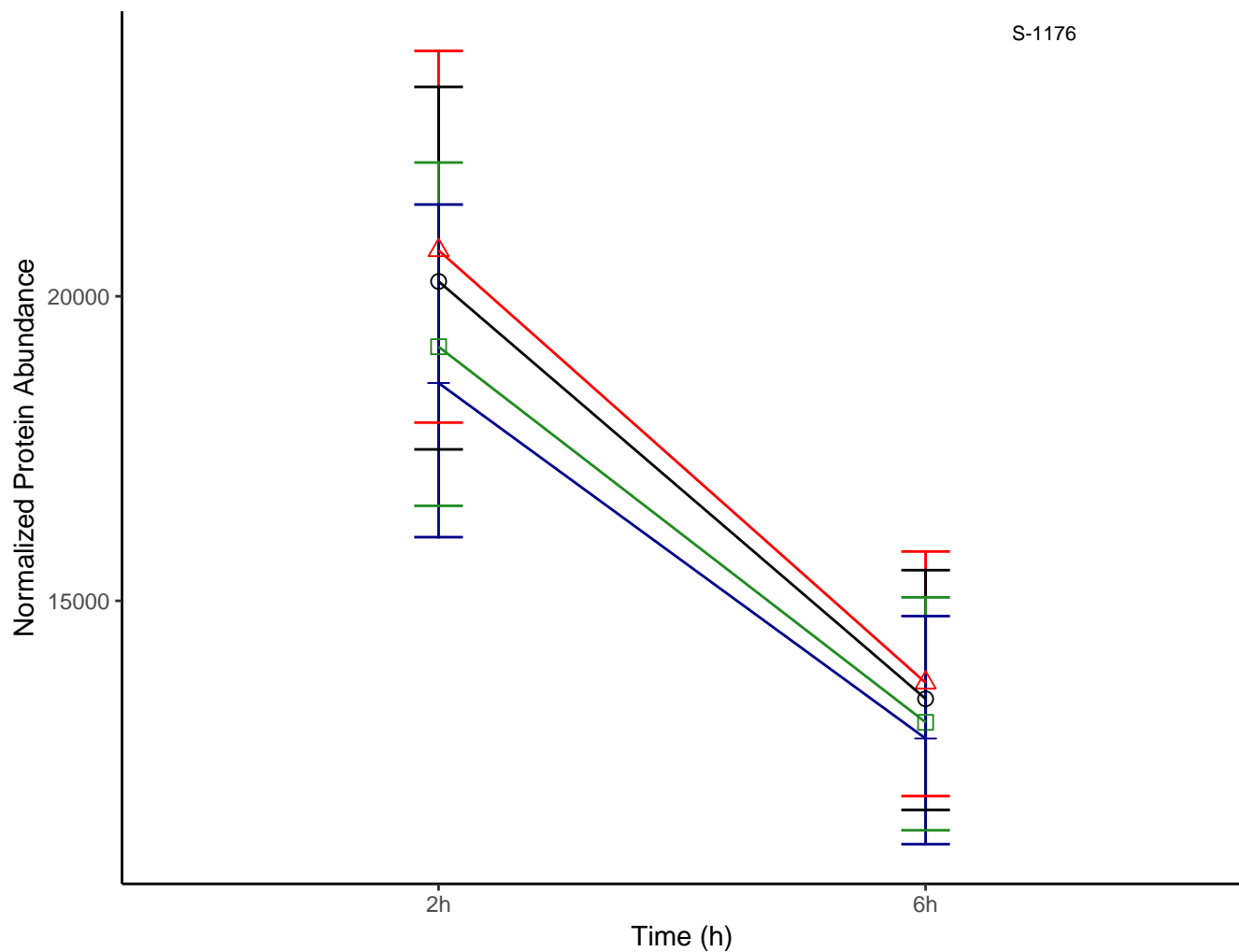
S-1175



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# IF3\_STAAM

S-1176

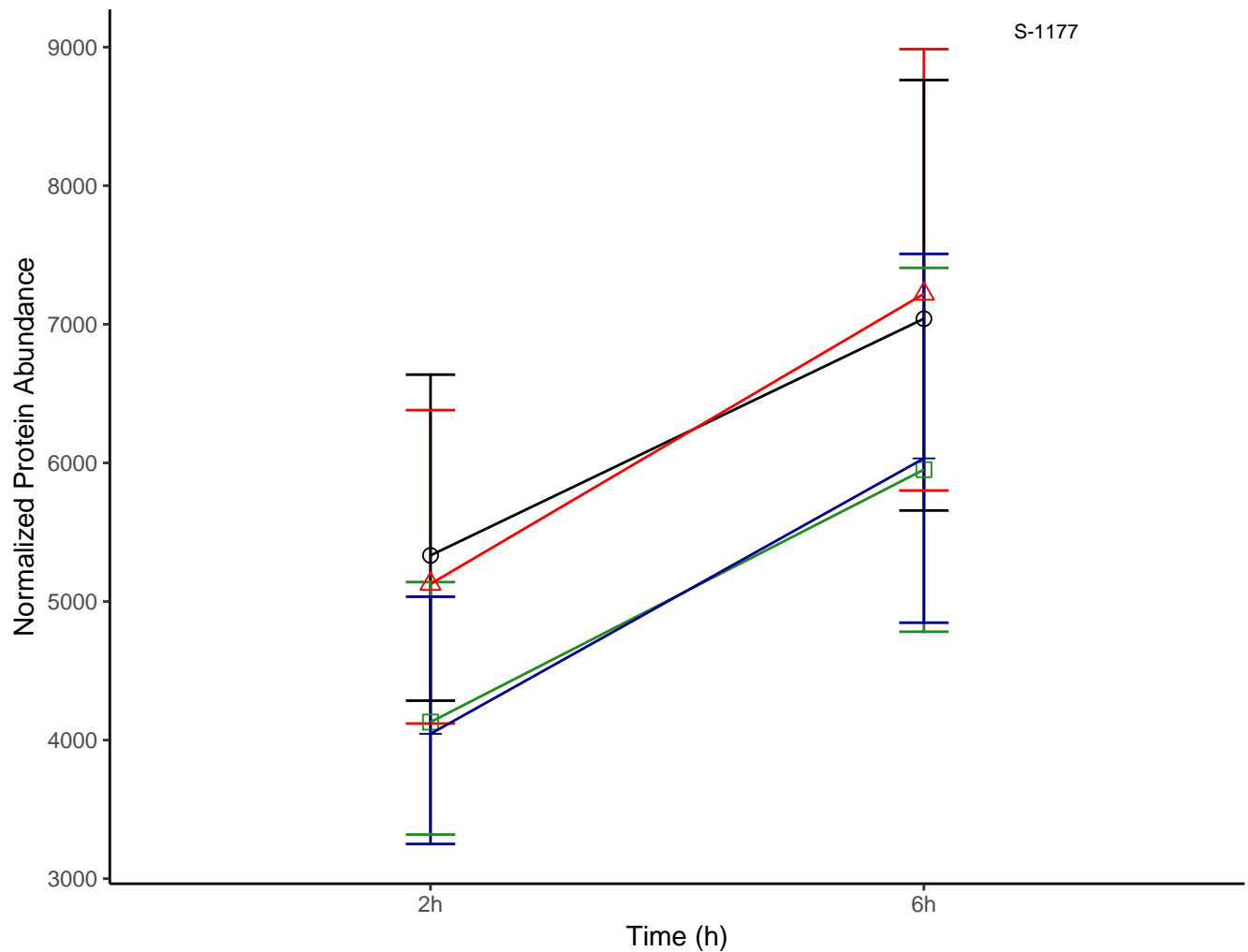


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# ILVC\_STAAM

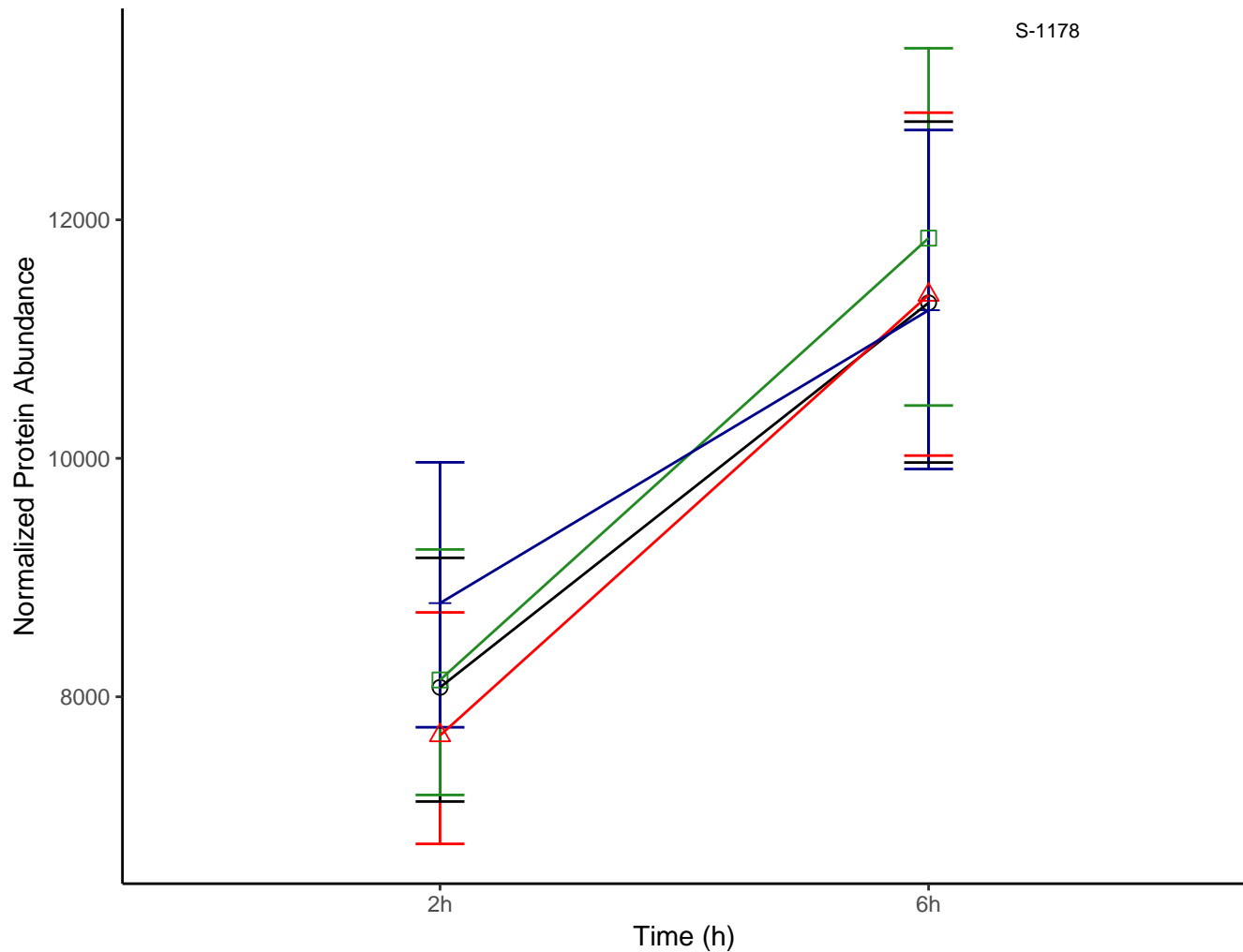
S-1177



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ILVE\_STAAM

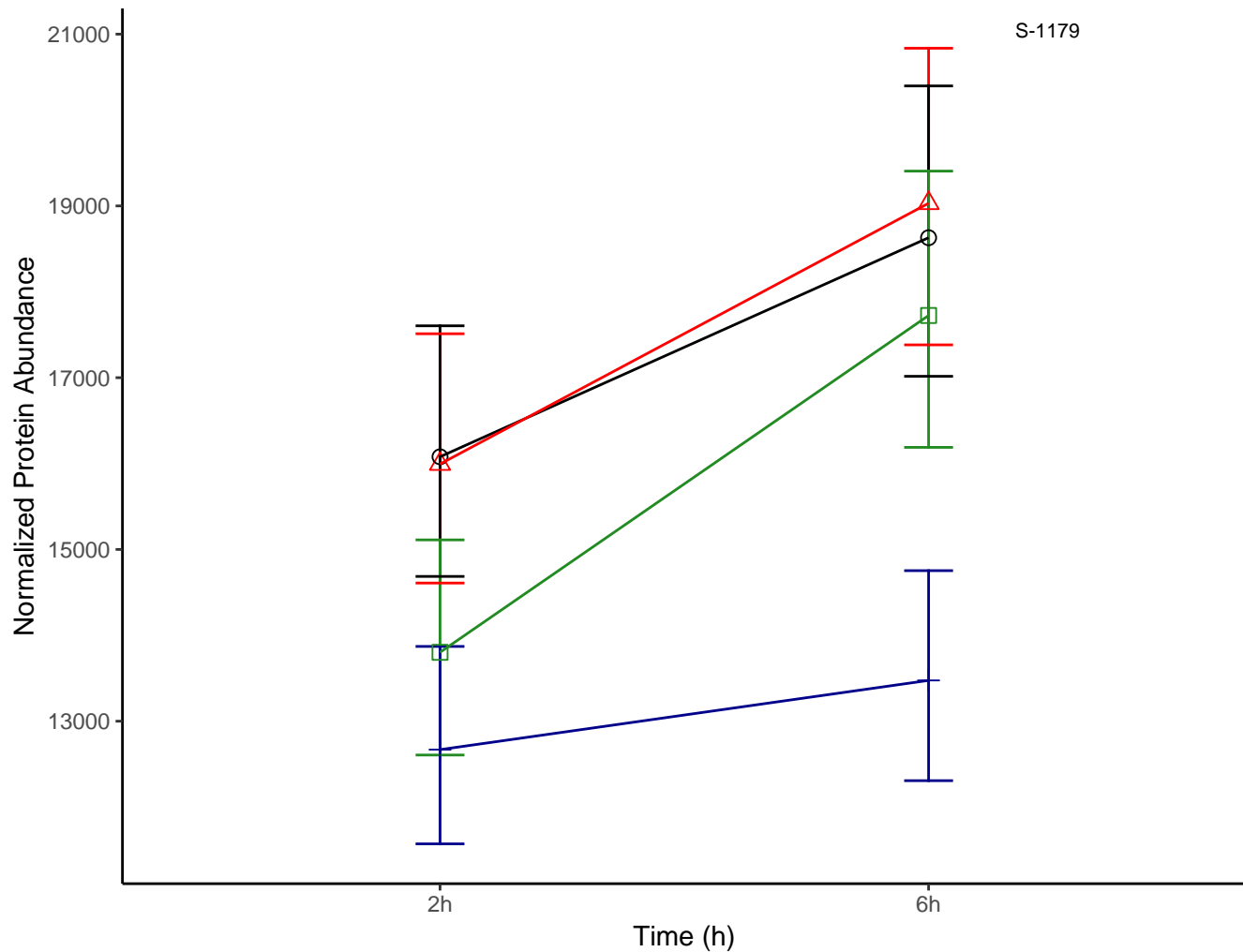
S-1178



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## IMDH\_STAAM

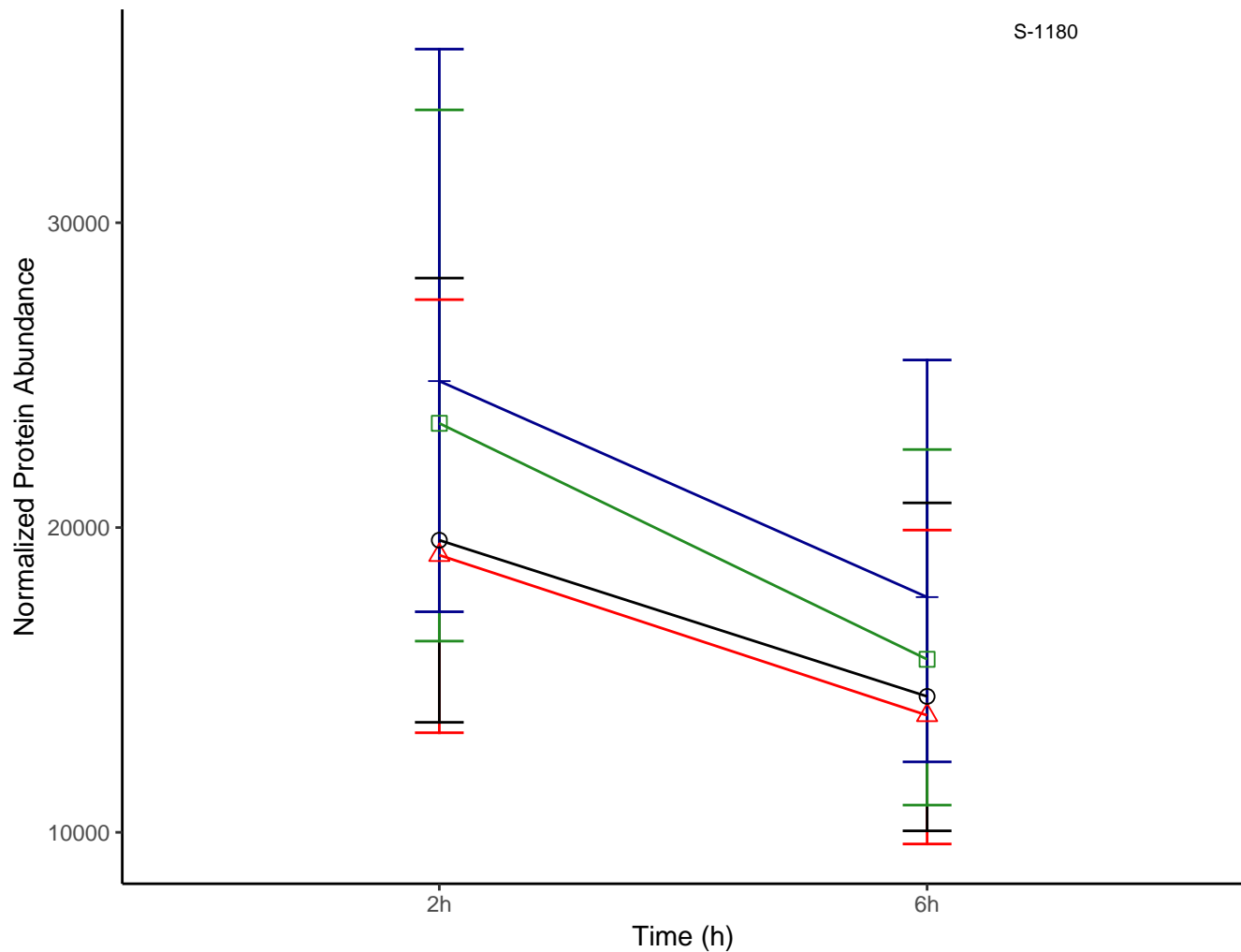
S-1179



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ISAA\_STAAM

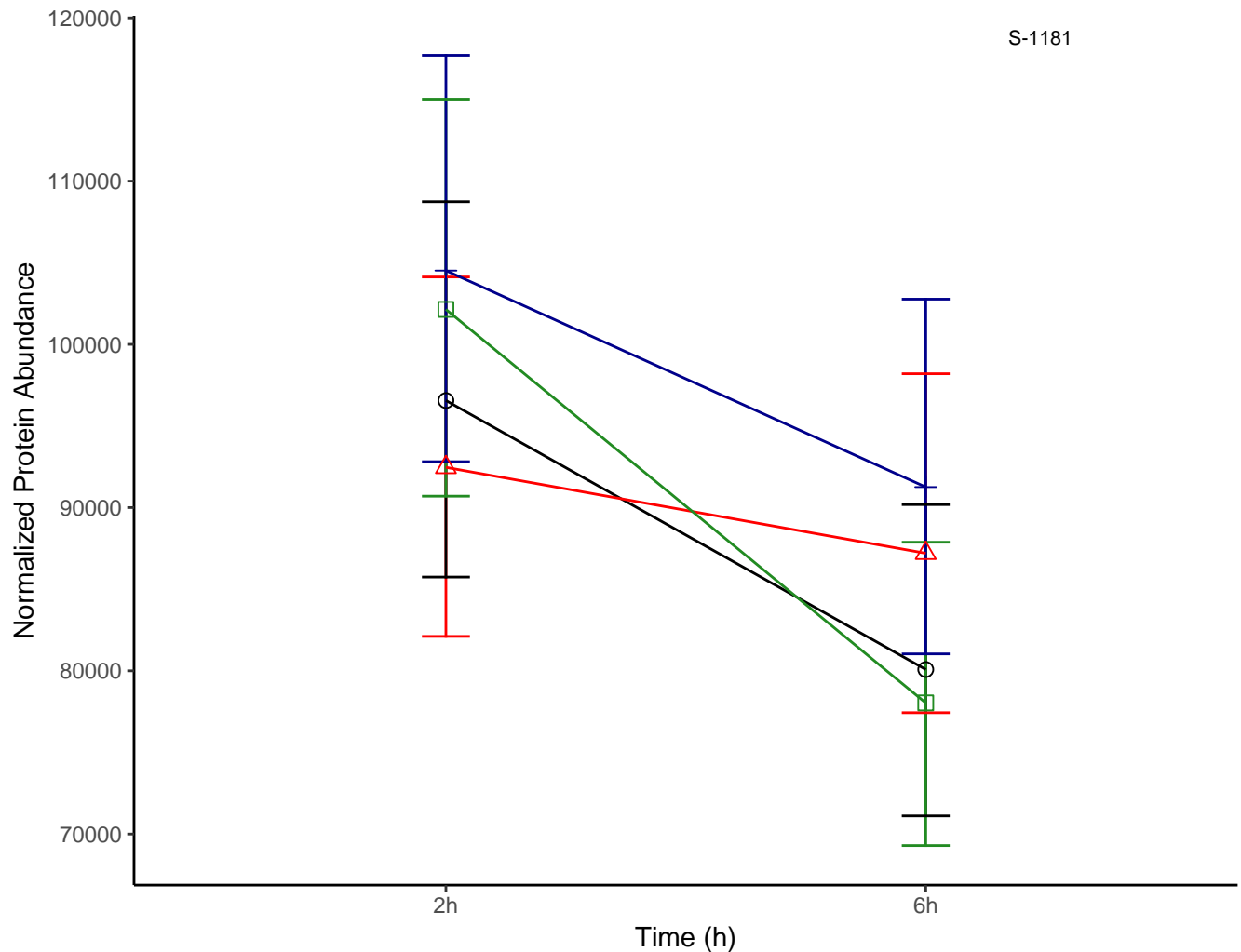
S-1180



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ISPD1\_STAAM

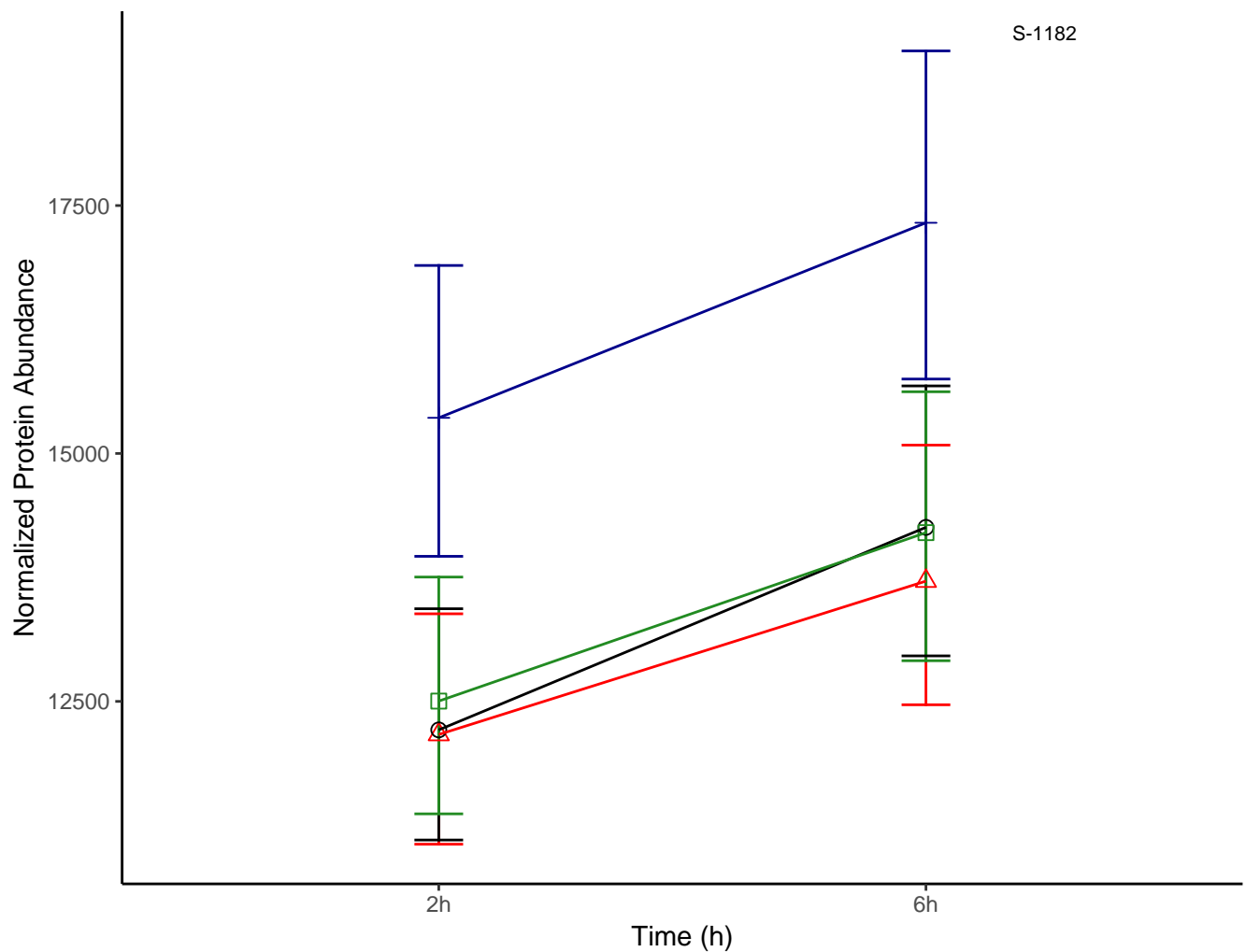
S-1181



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ISPD2\_STAAM

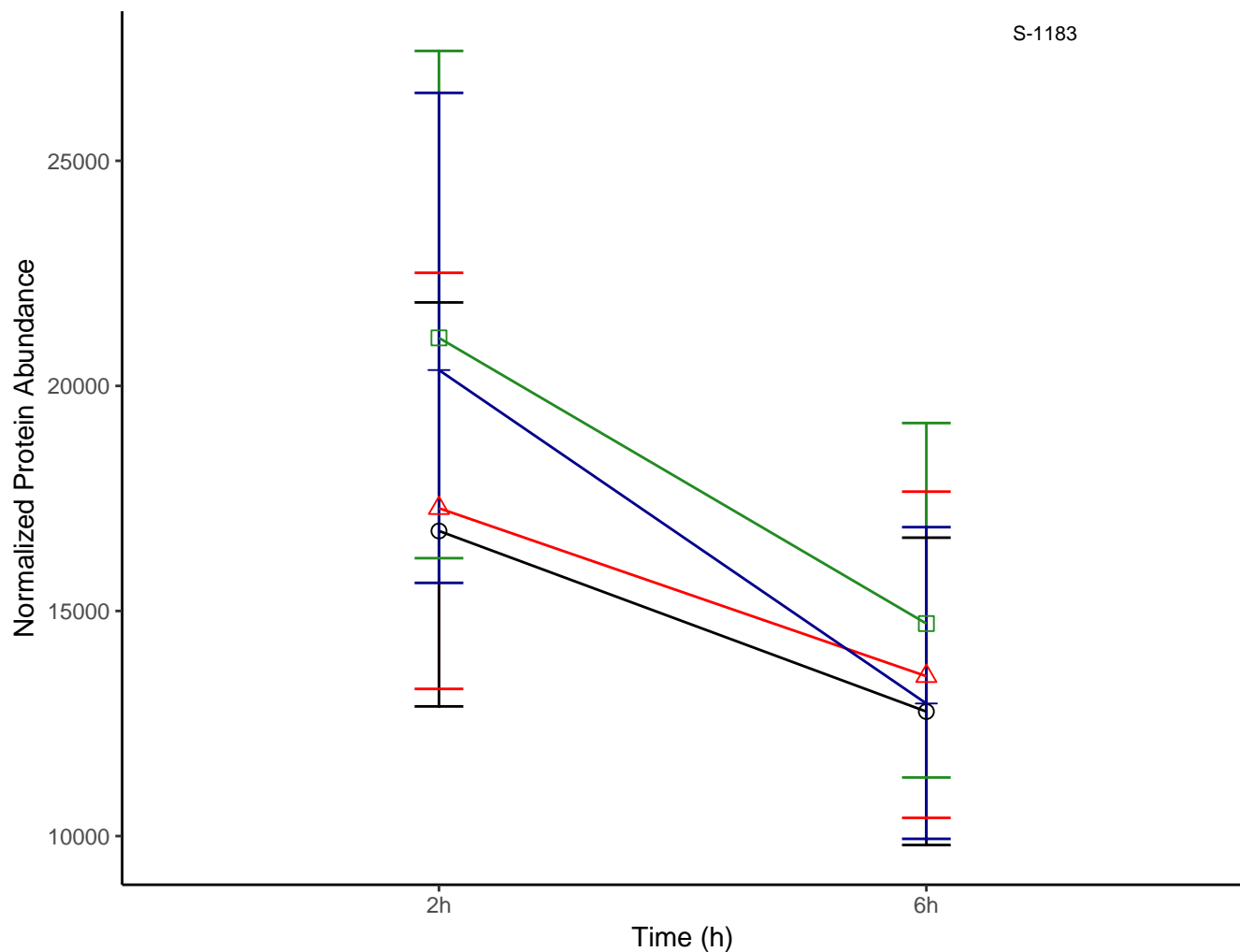
S-1182



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ISPE\_STAAM

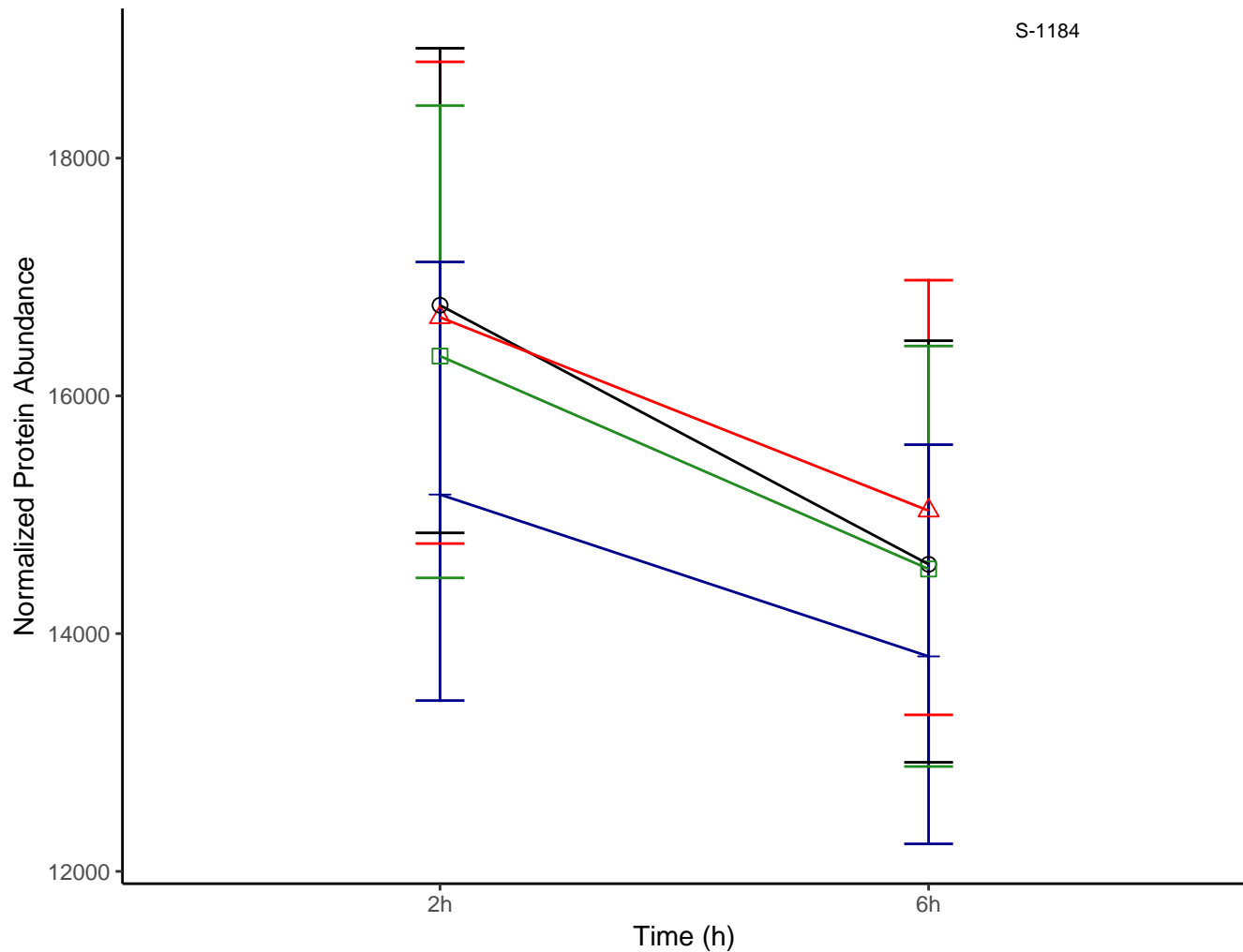
S-1183



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# KAD\_STAAM

S-1184

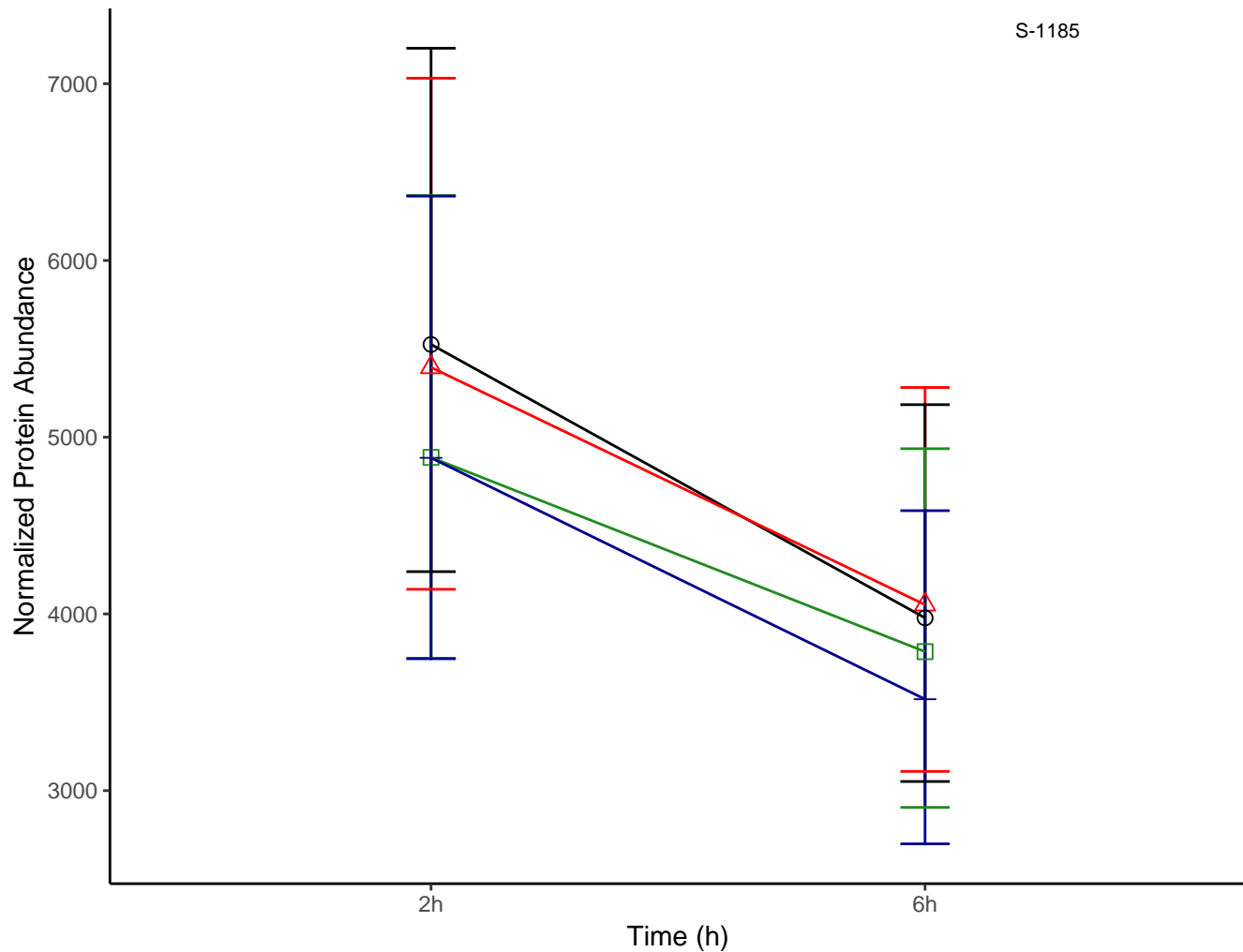


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# KCY\_STAAM

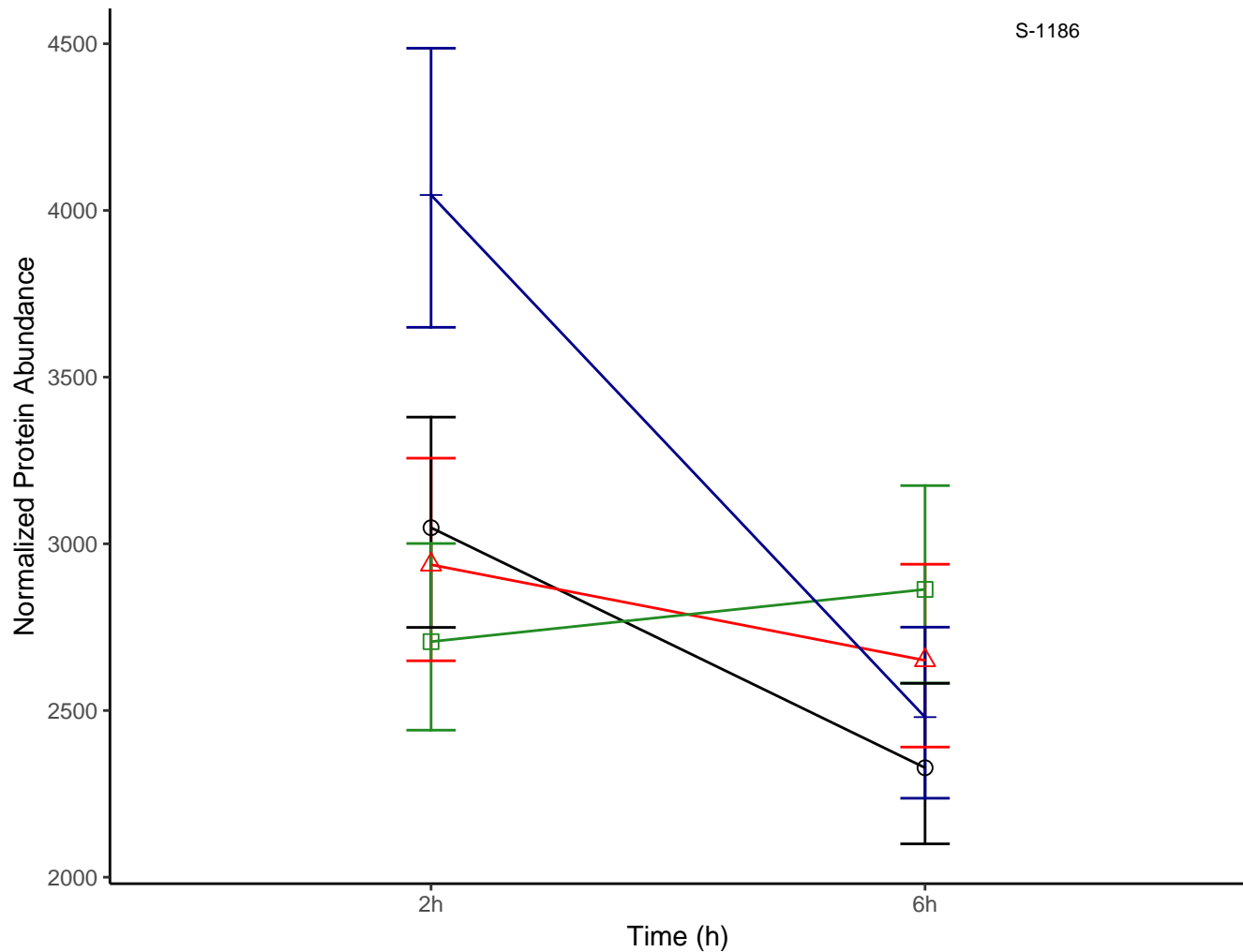
S-1185



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KITH\_STAAM

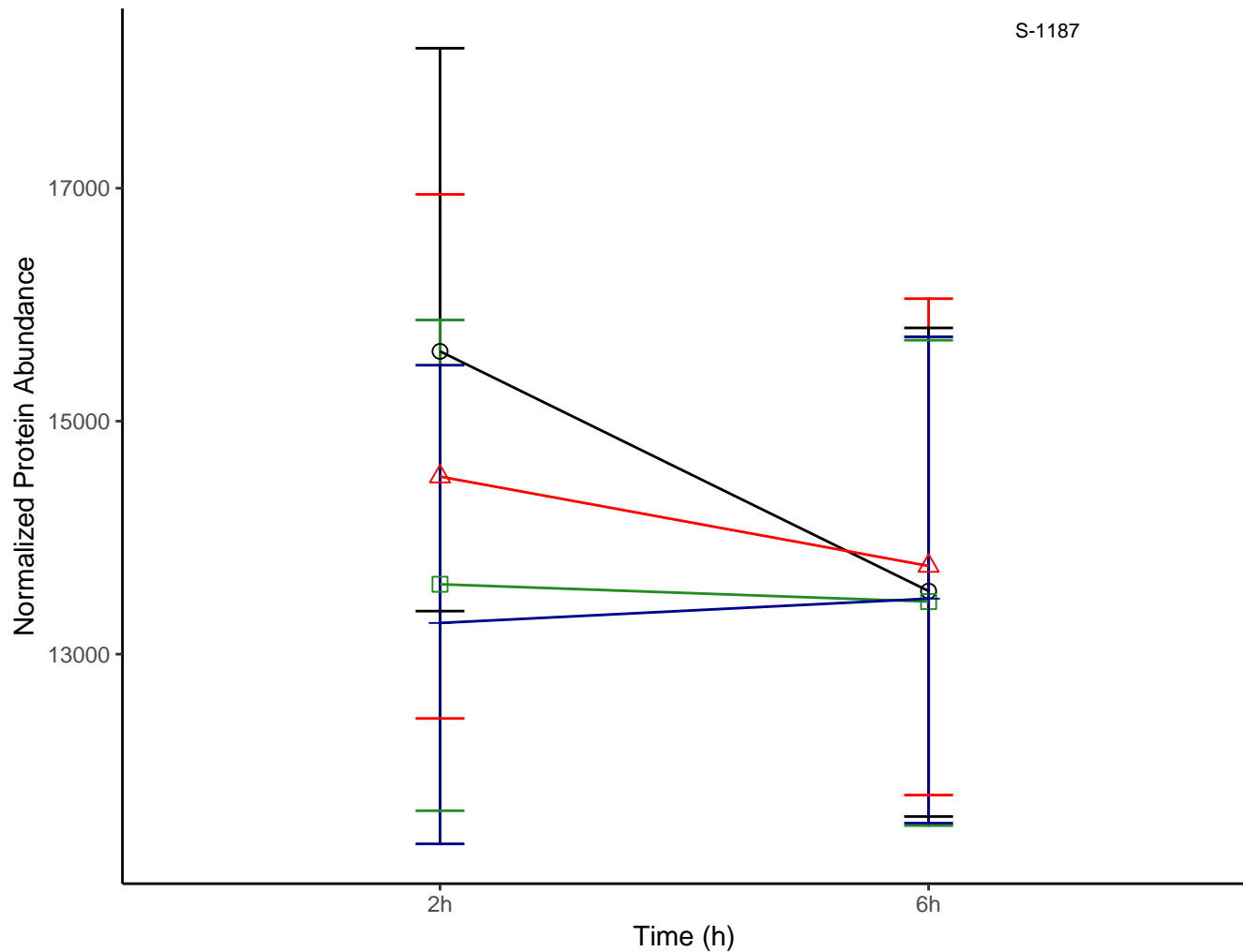
S-1186



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KPRS\_STAAM

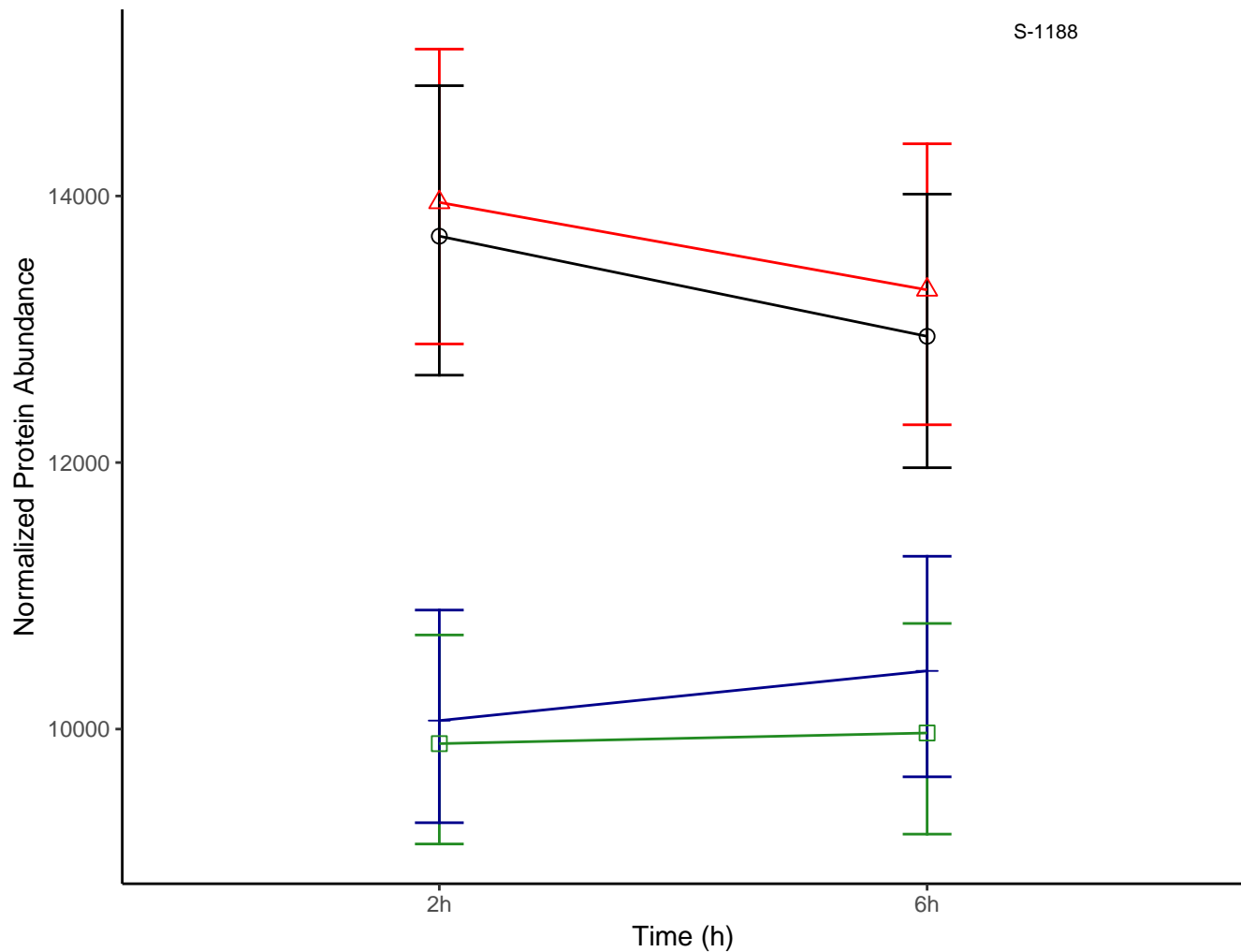
S-1187



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# KPYK\_STAAM

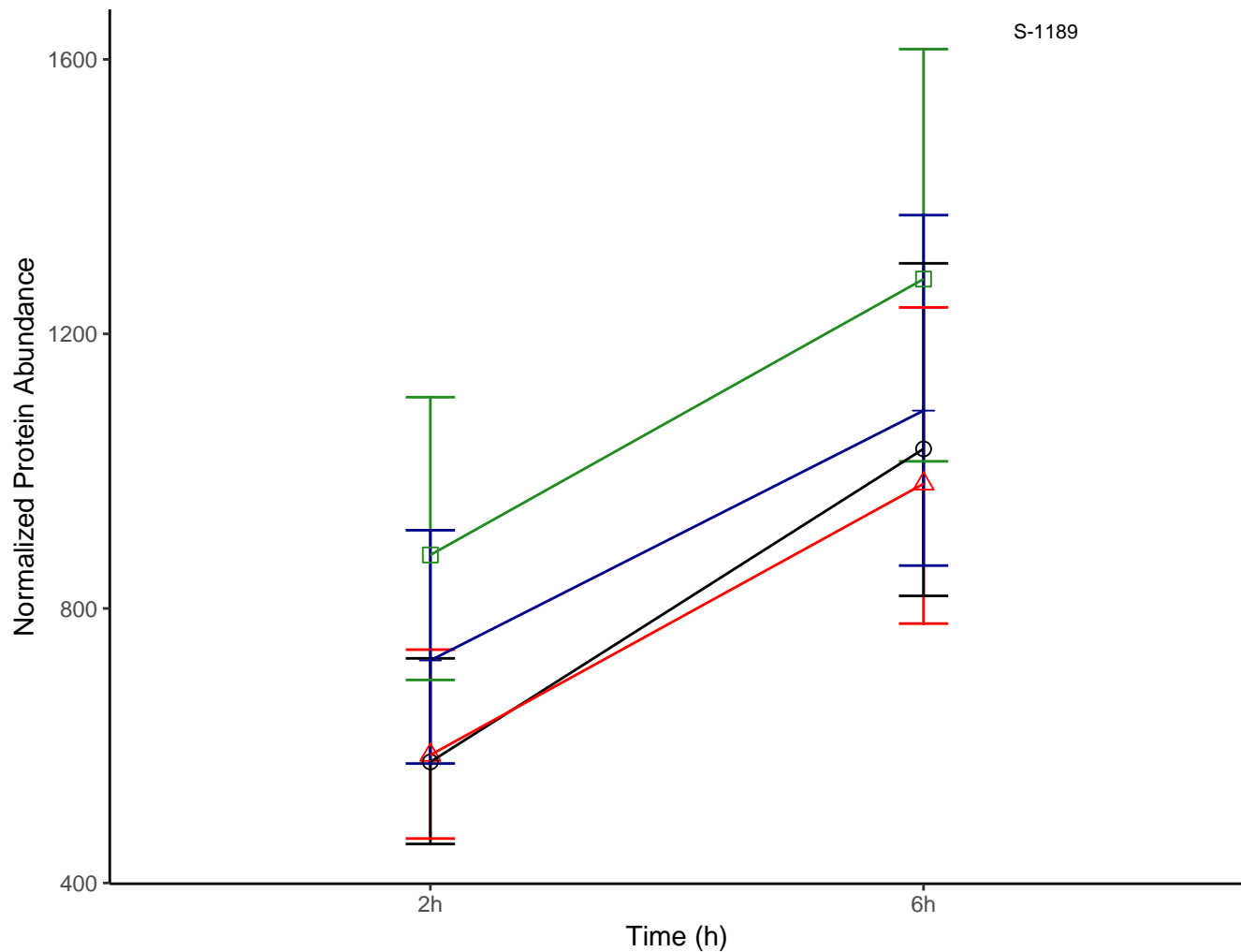
S-1188



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# KTHY\_STAAM

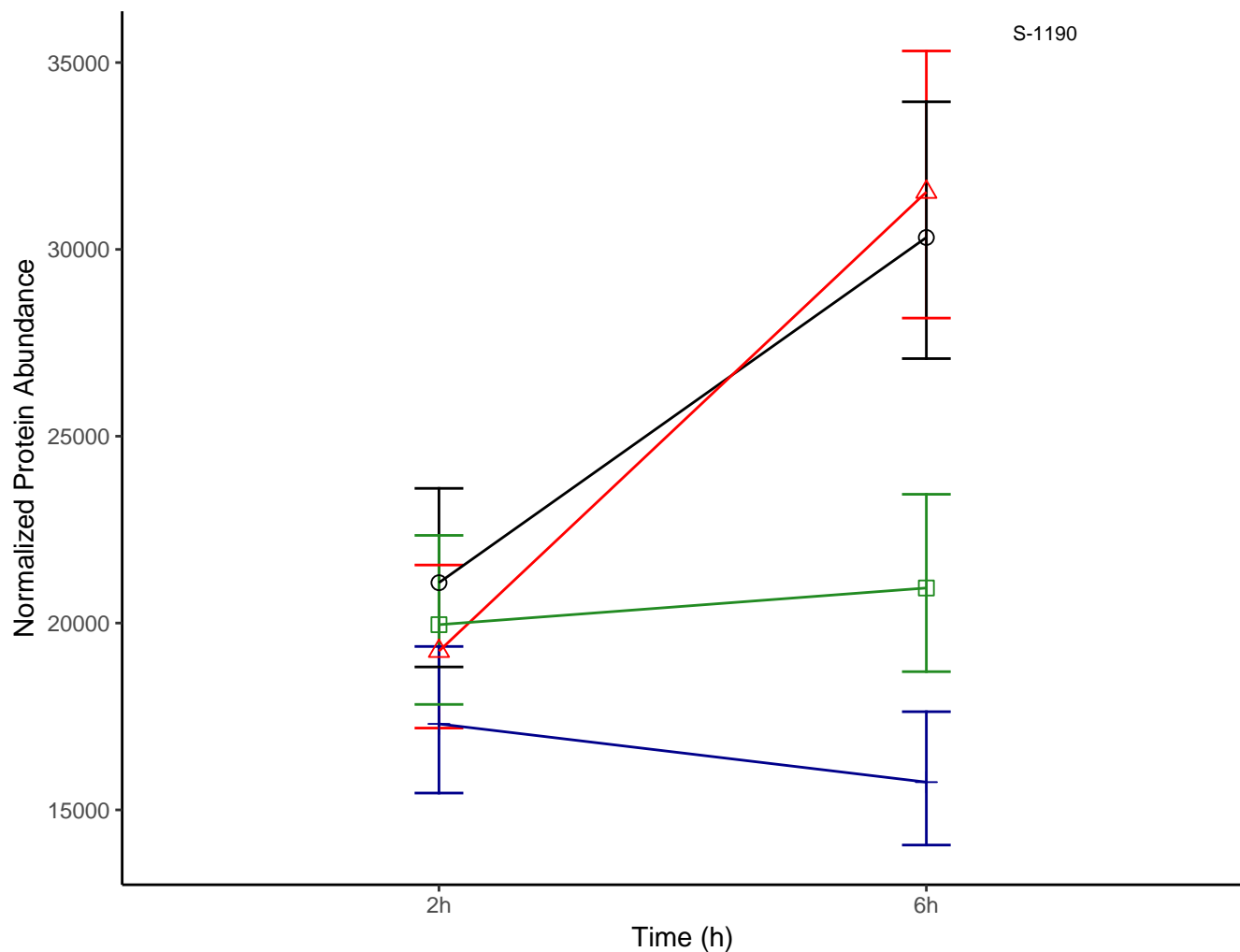
S-1189



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LACA\_STAAM

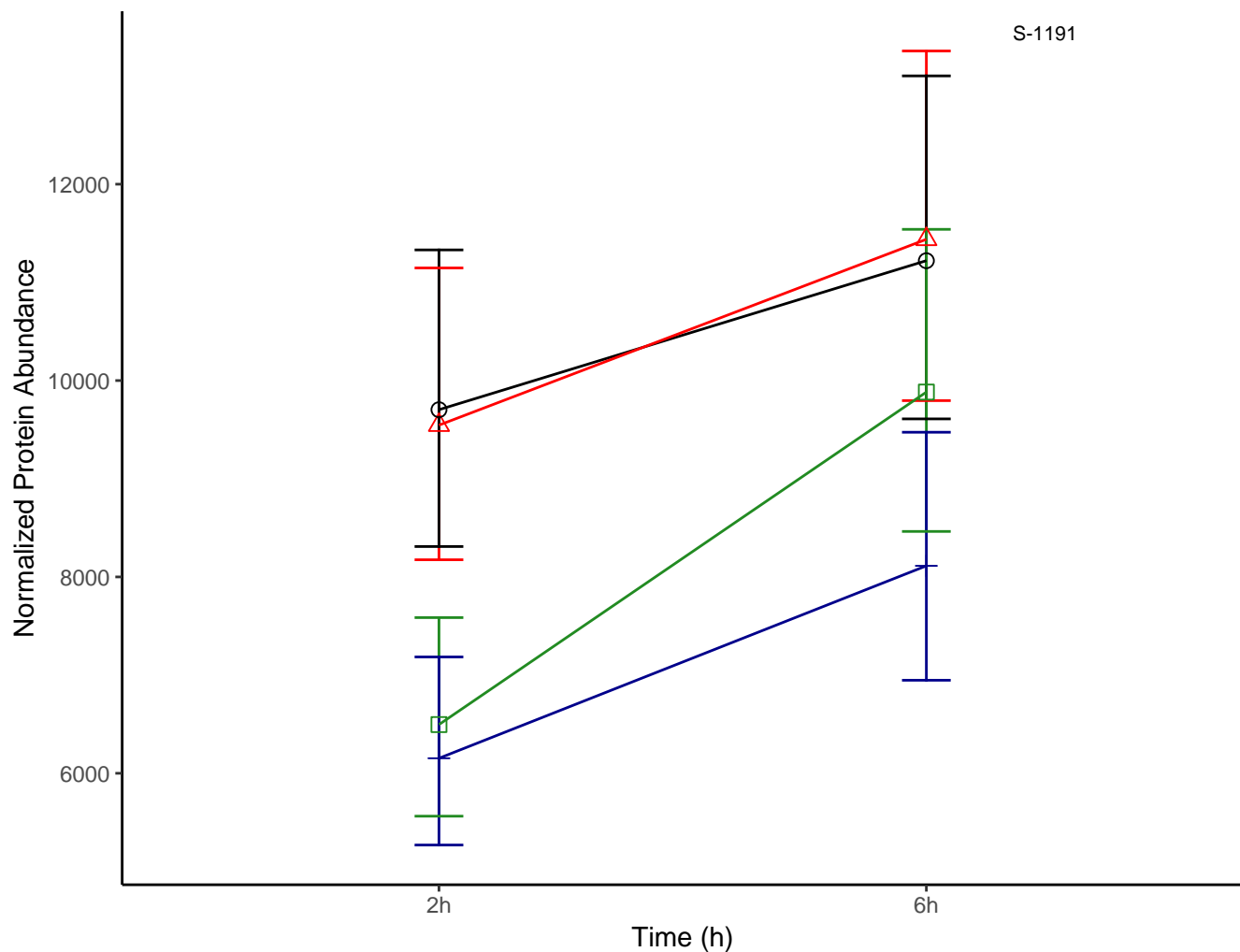
S-1190



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LDH1\_STAAM

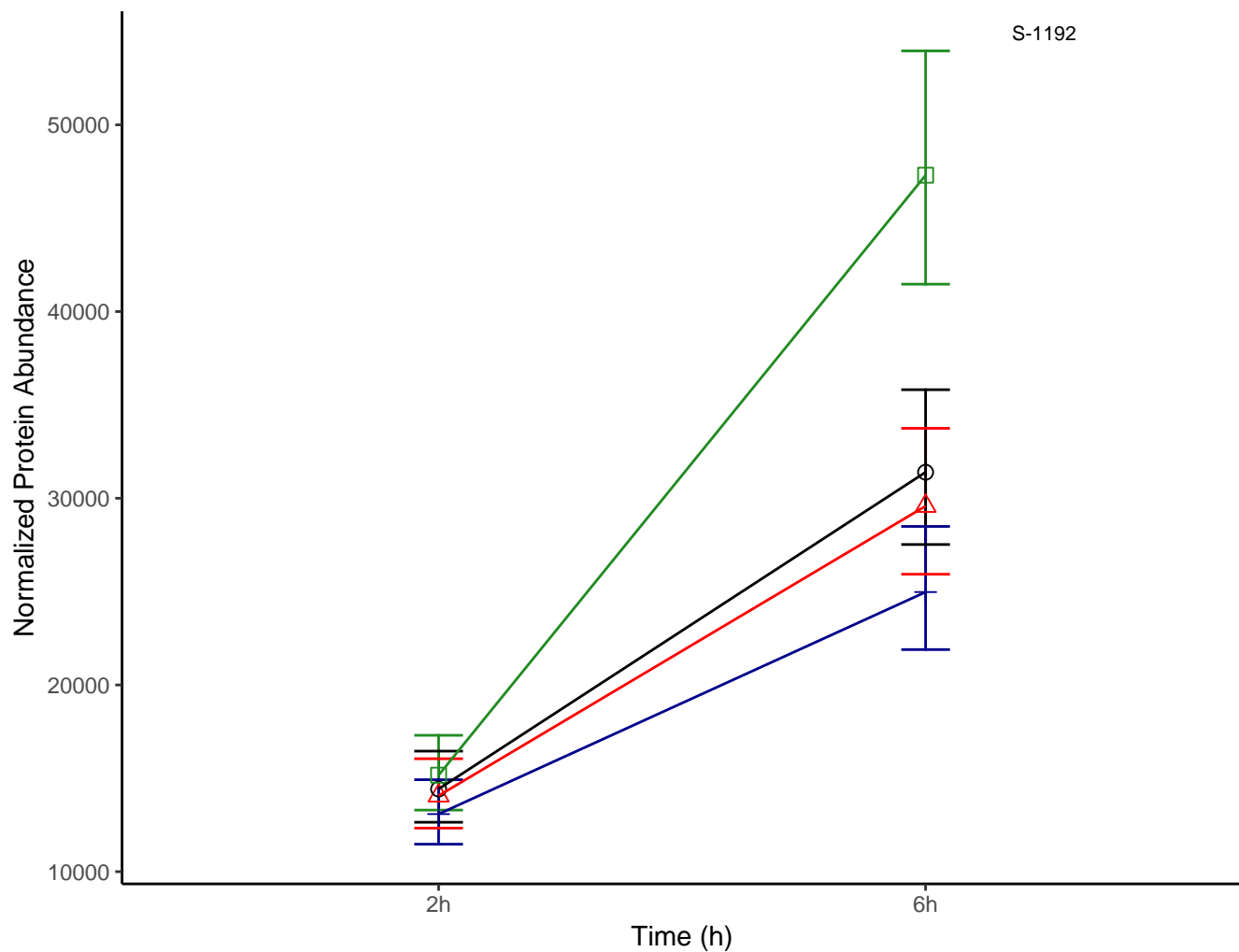
S-1191



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LDH2\_STAAM

S-1192

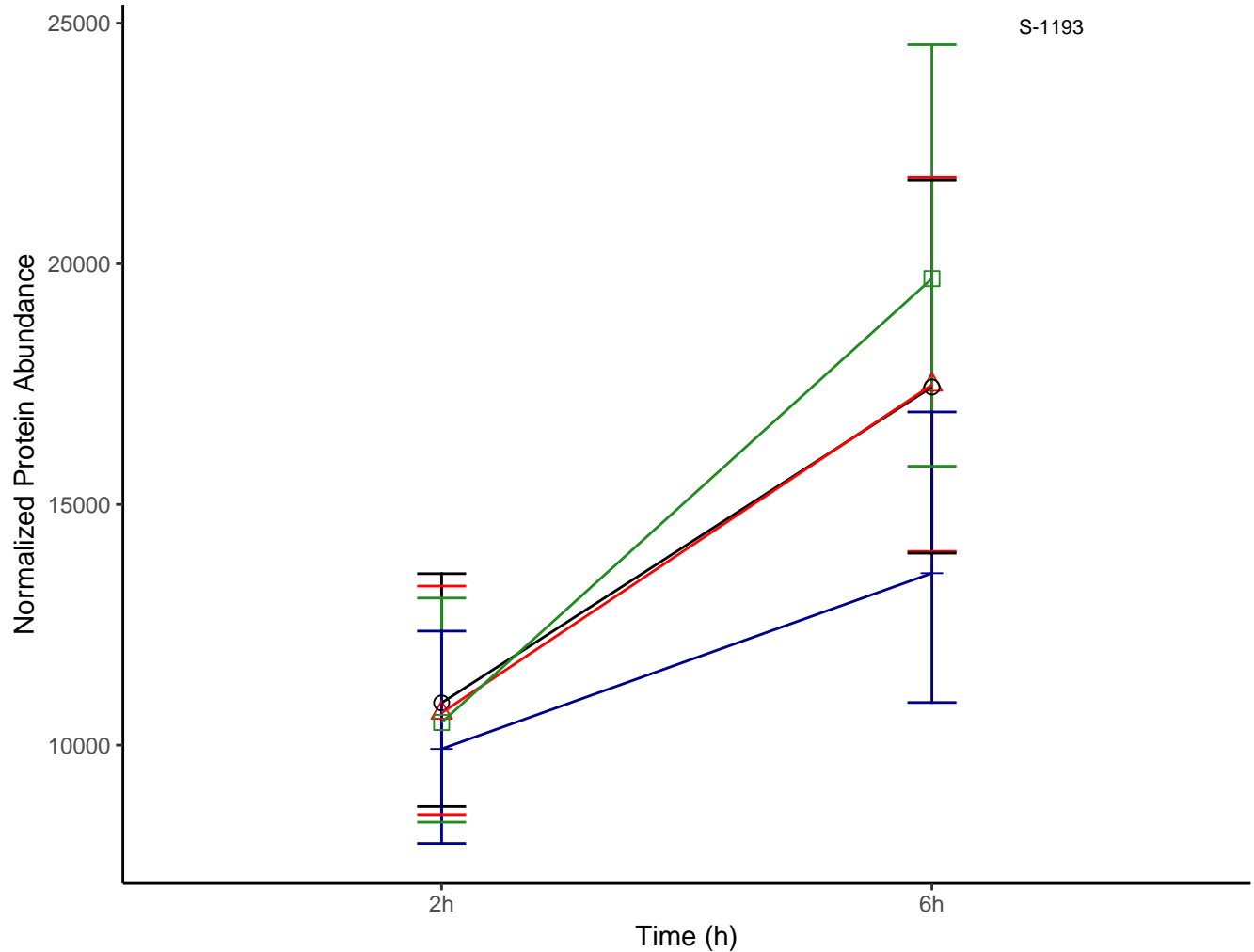


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# LDHD\_STAAM

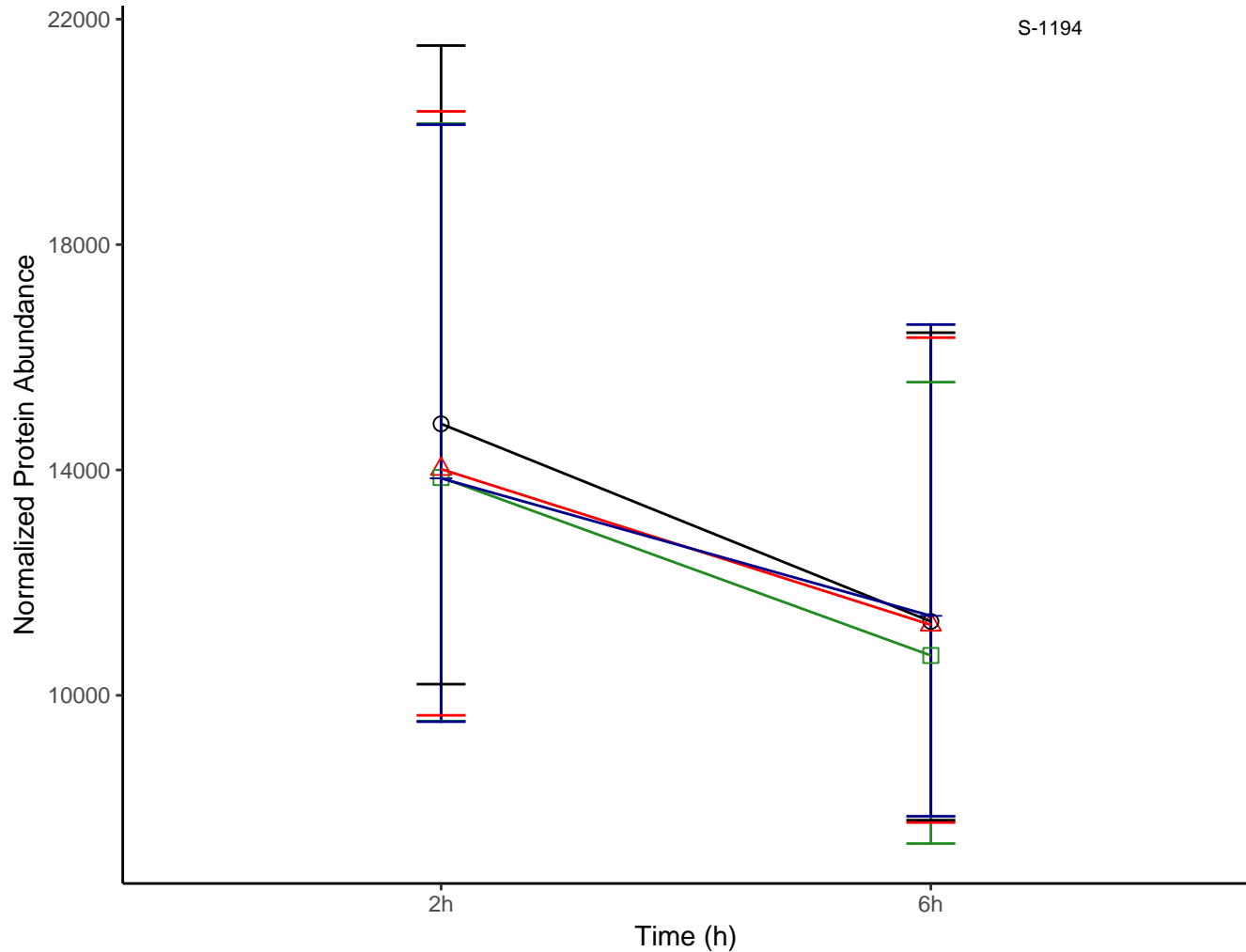
S-1193



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LEP\_STAAM

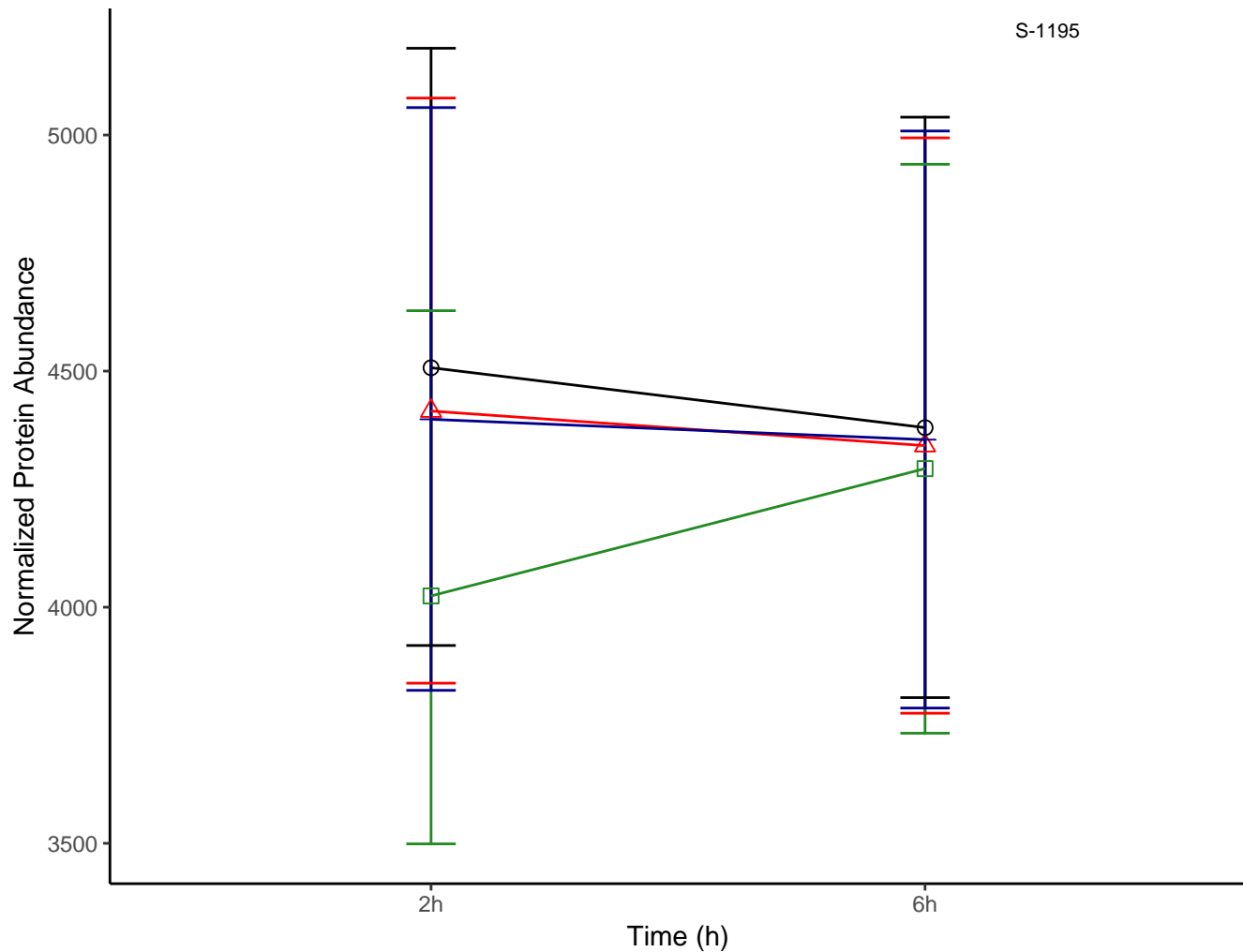
S-1194



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LEPA\_STAAM

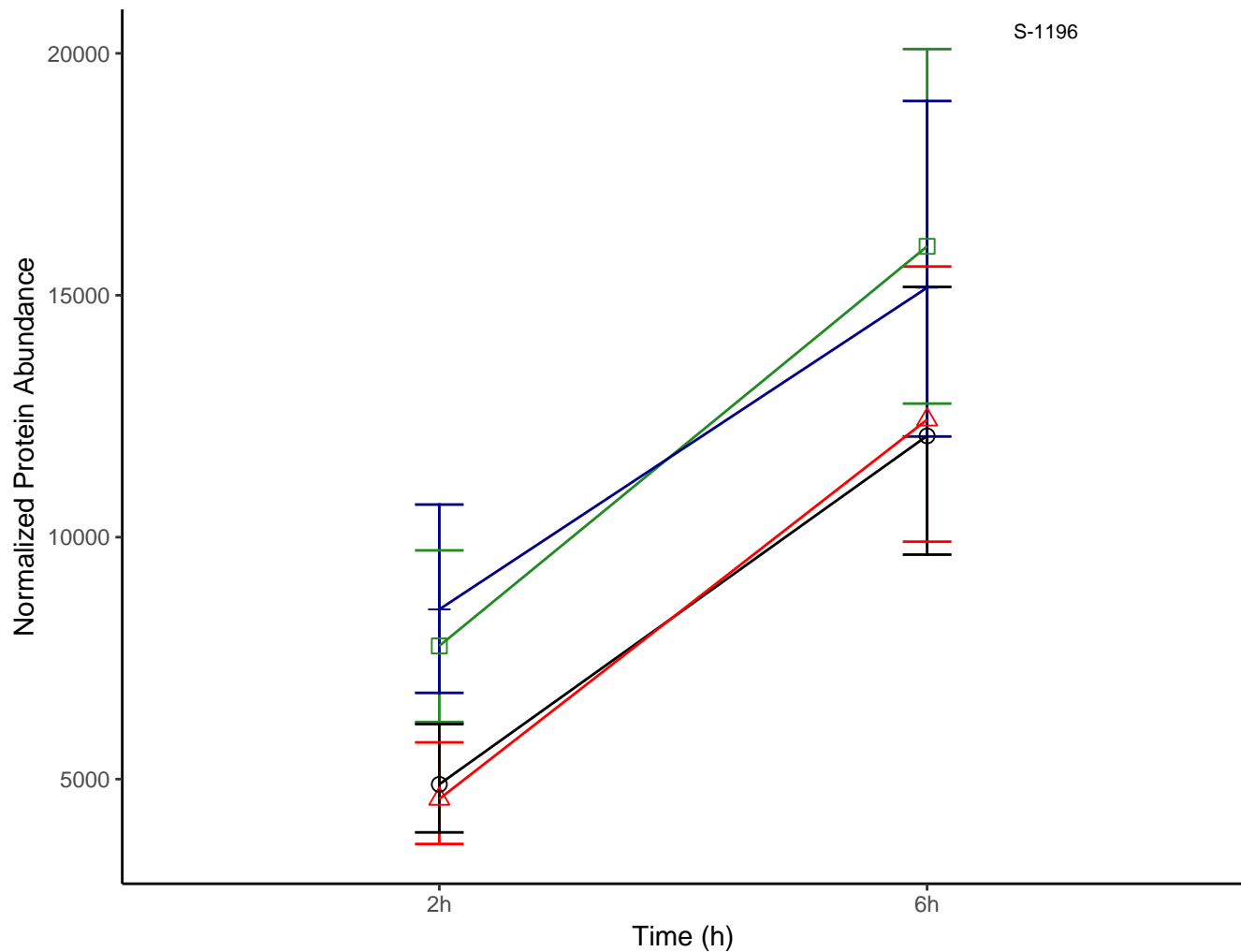
S-1195



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LEU1\_STAAM

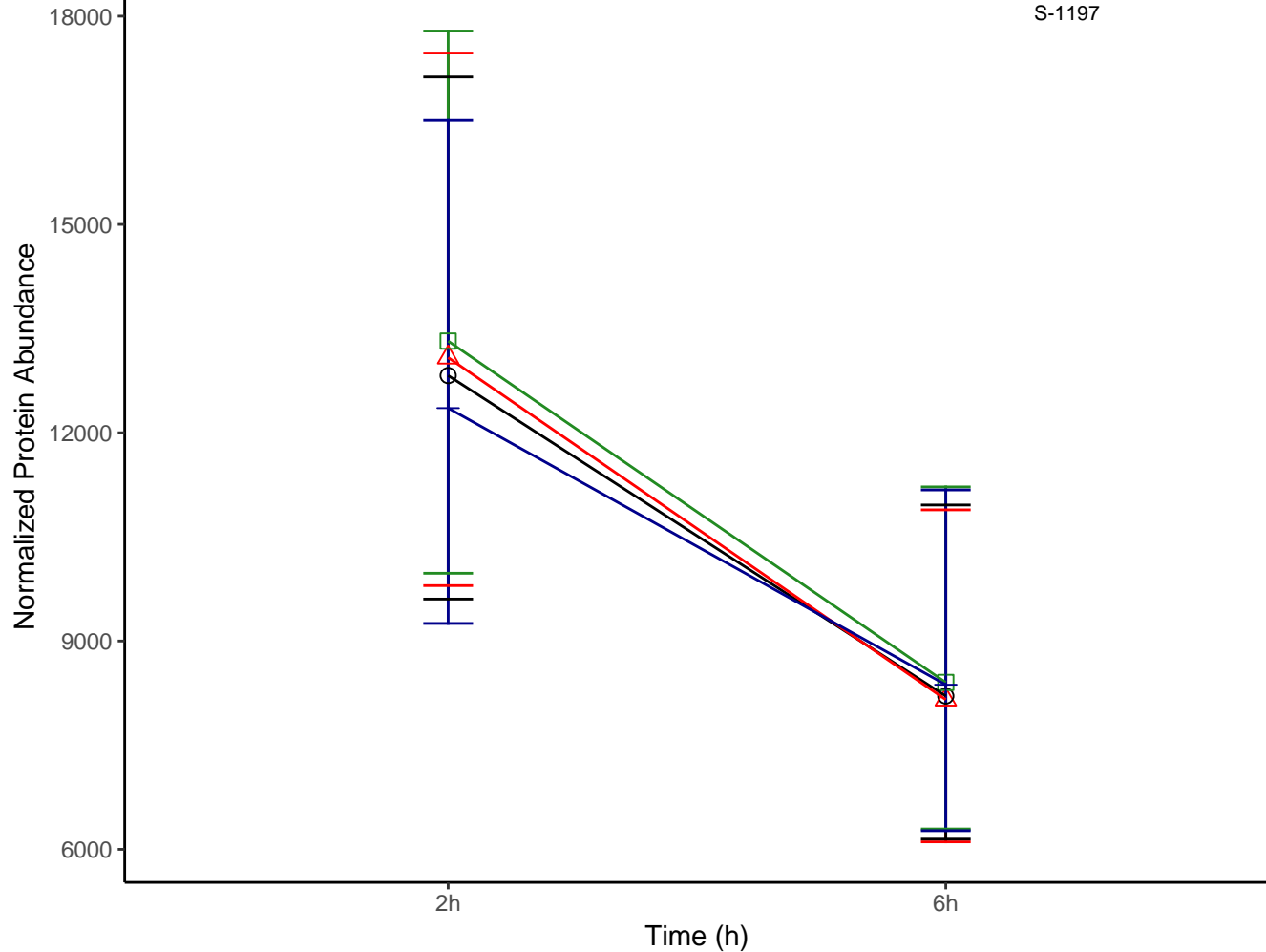
S-1196



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LIPA\_STAAM

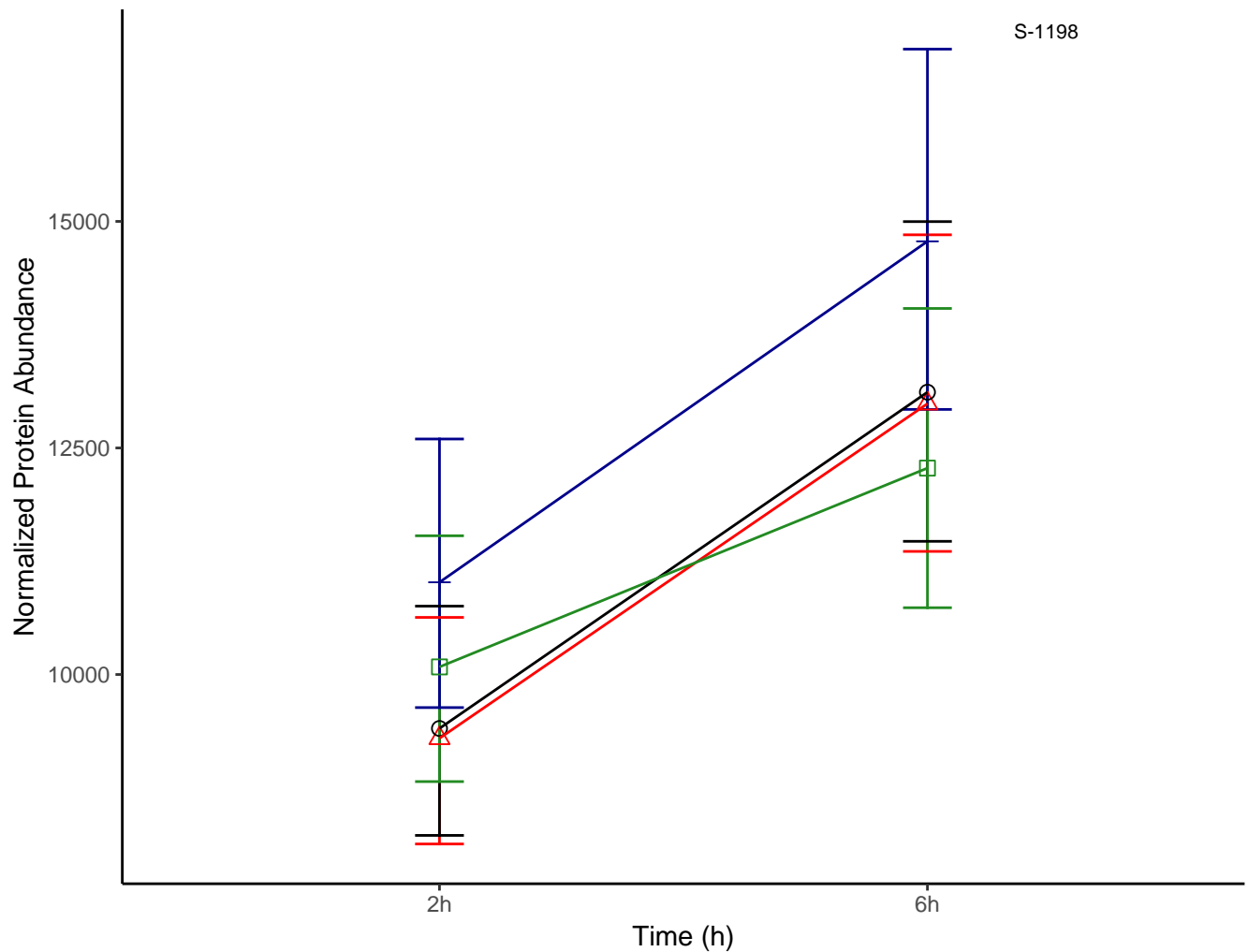
S-1197



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# LUXS\_STAAM

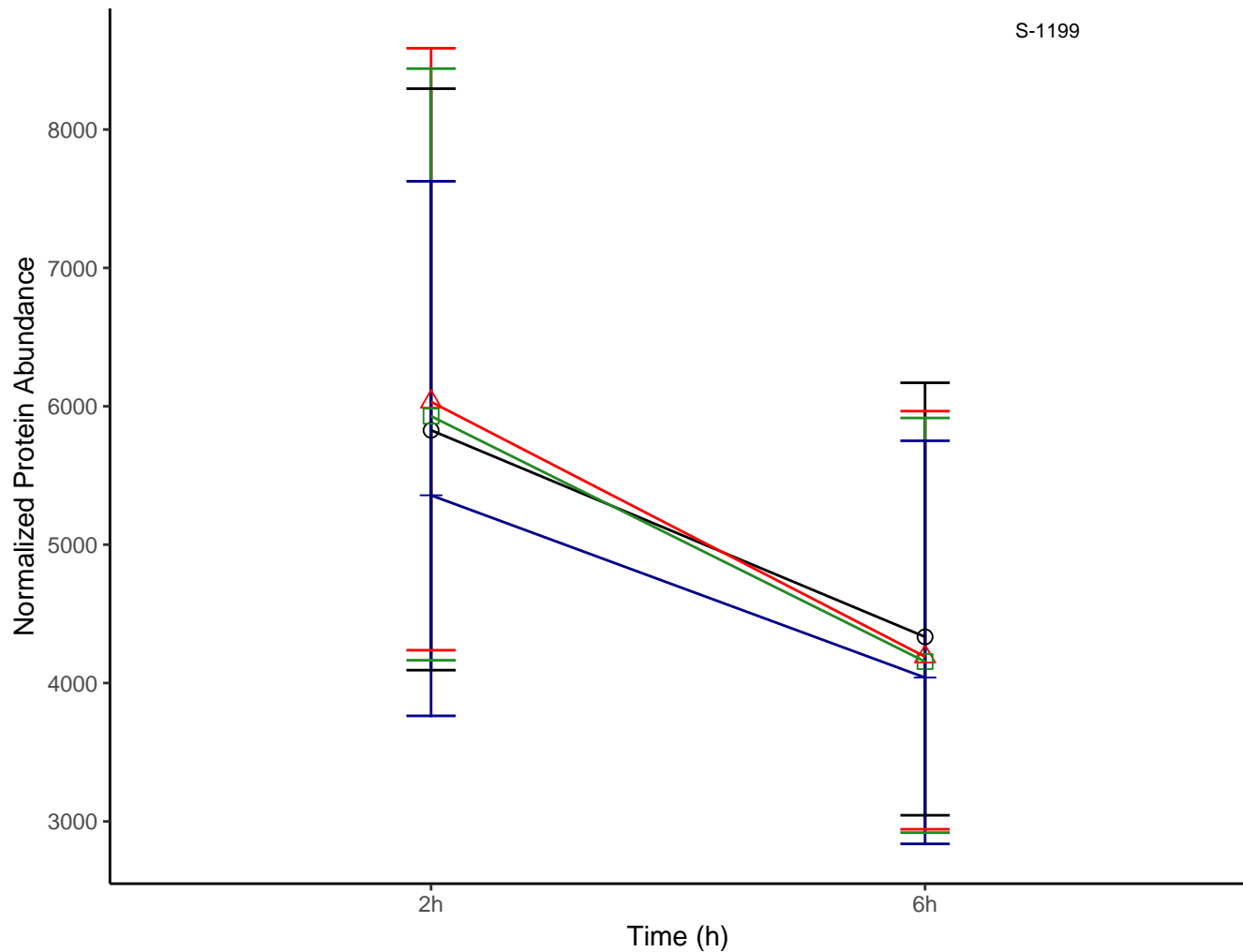
S-1198



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# LYTH\_STAAM

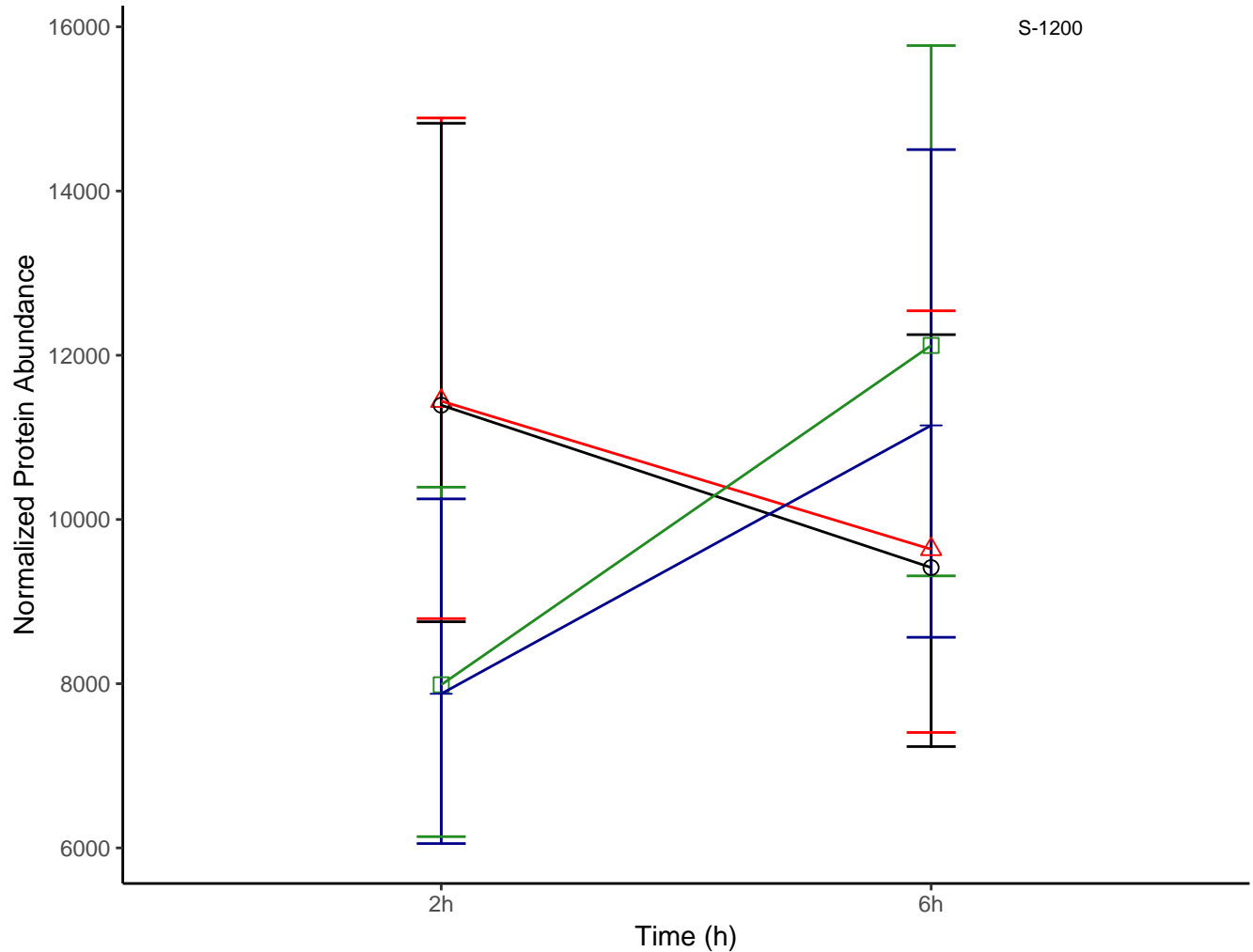
S-1199



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# LYTN\_STAAM

S-1200

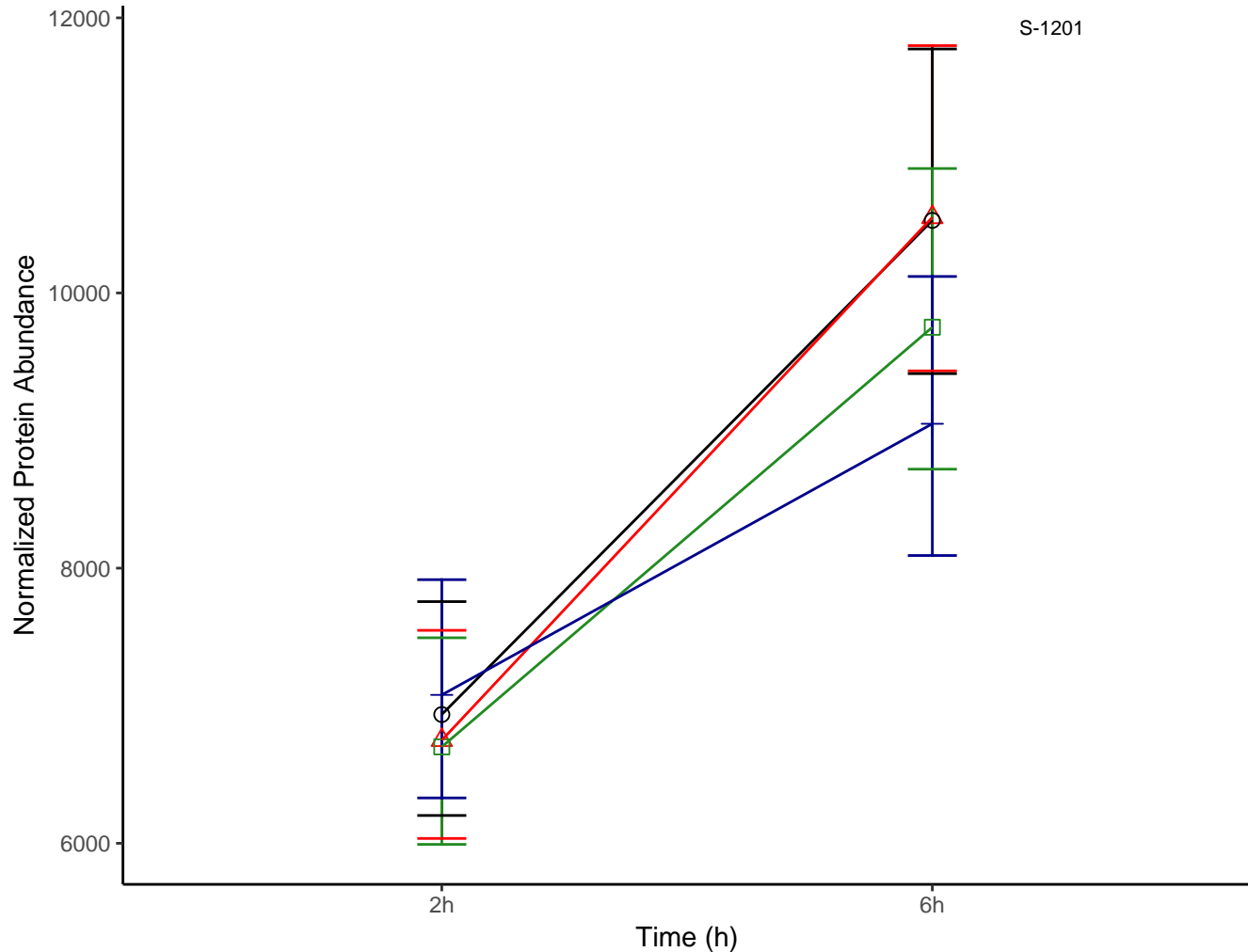


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MAP\_STAAM

S-1201



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MAP1\_STAAM

S-1202

Normalized Protein Abundance

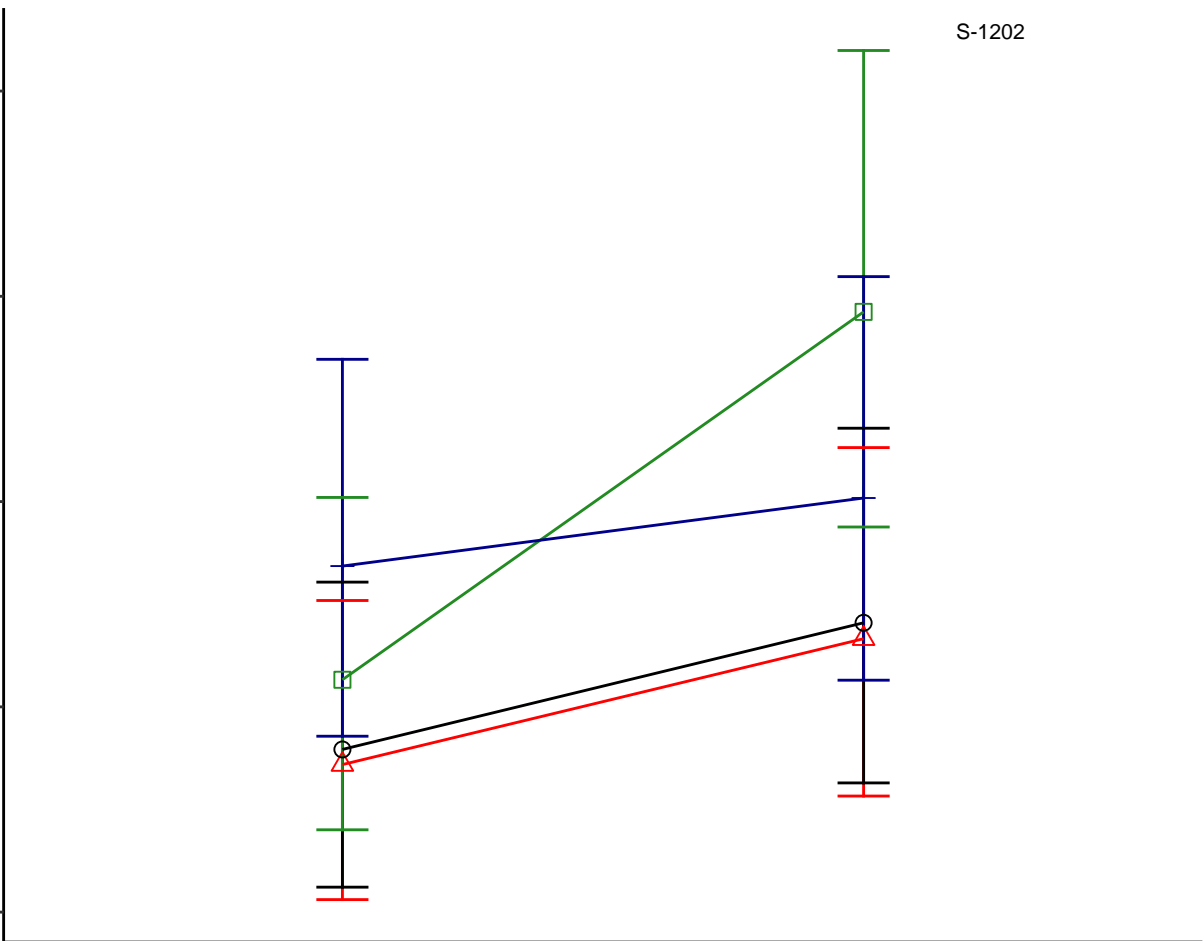
17500  
15000  
12500  
10000  
7500

2h

6h

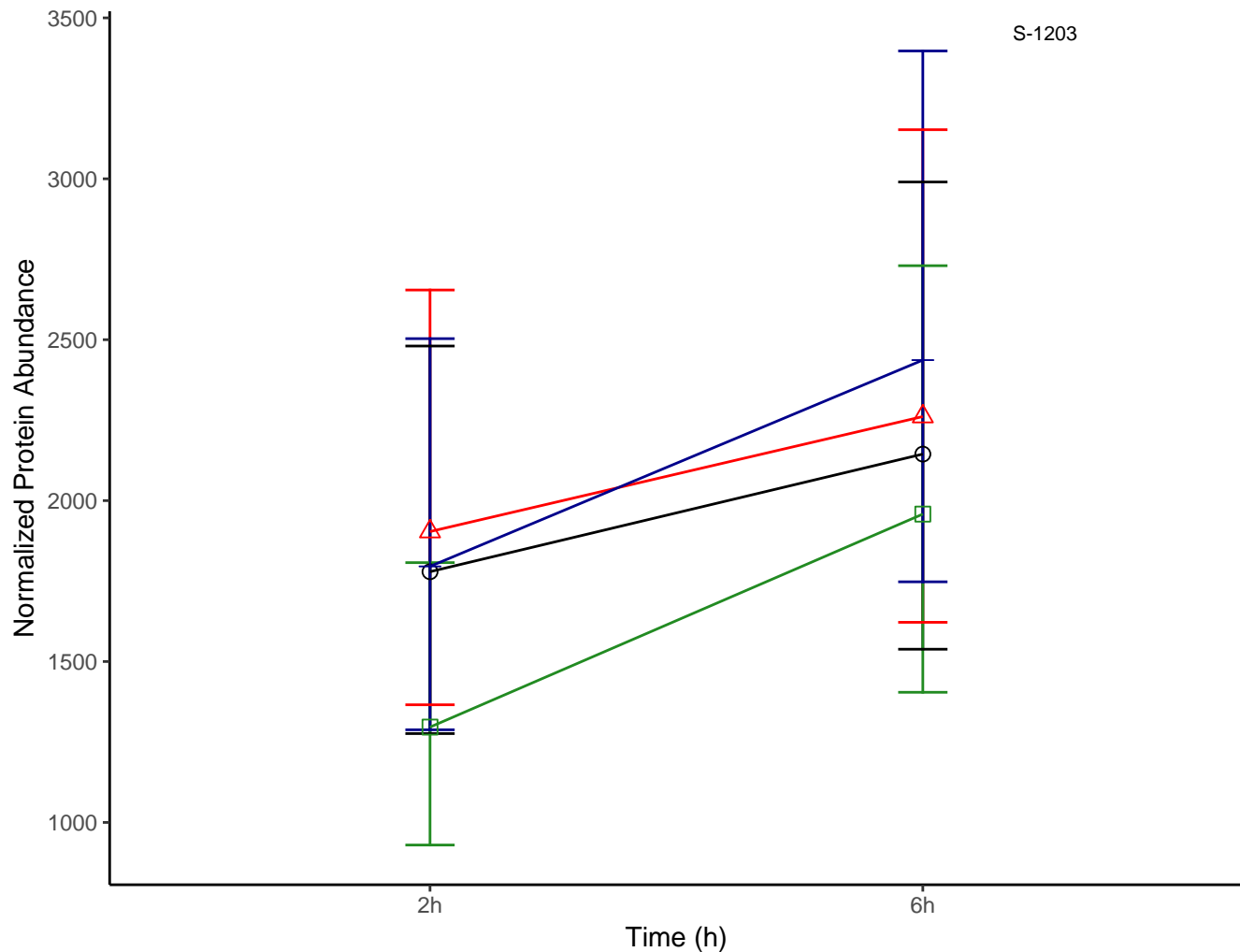
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MAZF\_STAAM

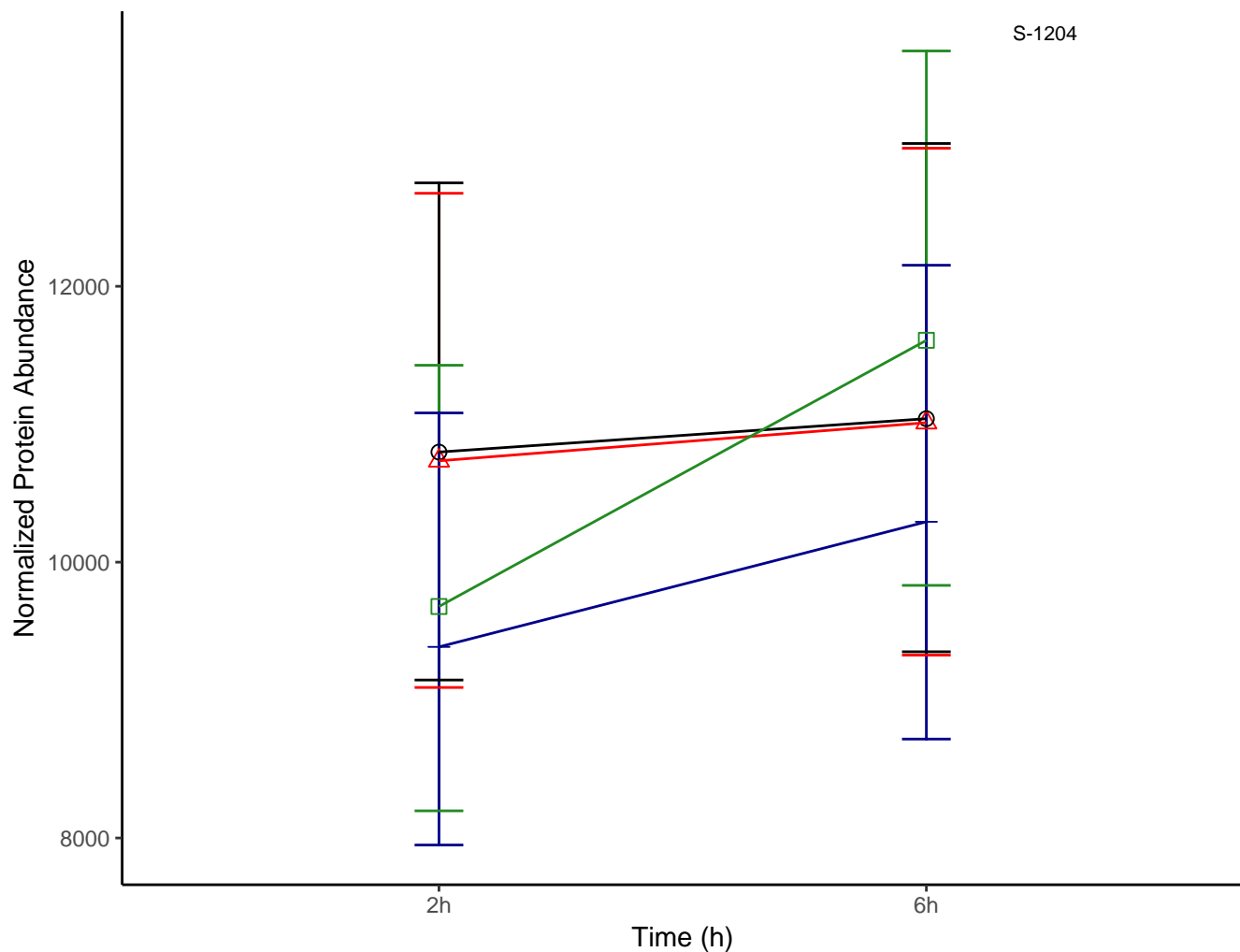
S-1203



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MENB\_STAAM

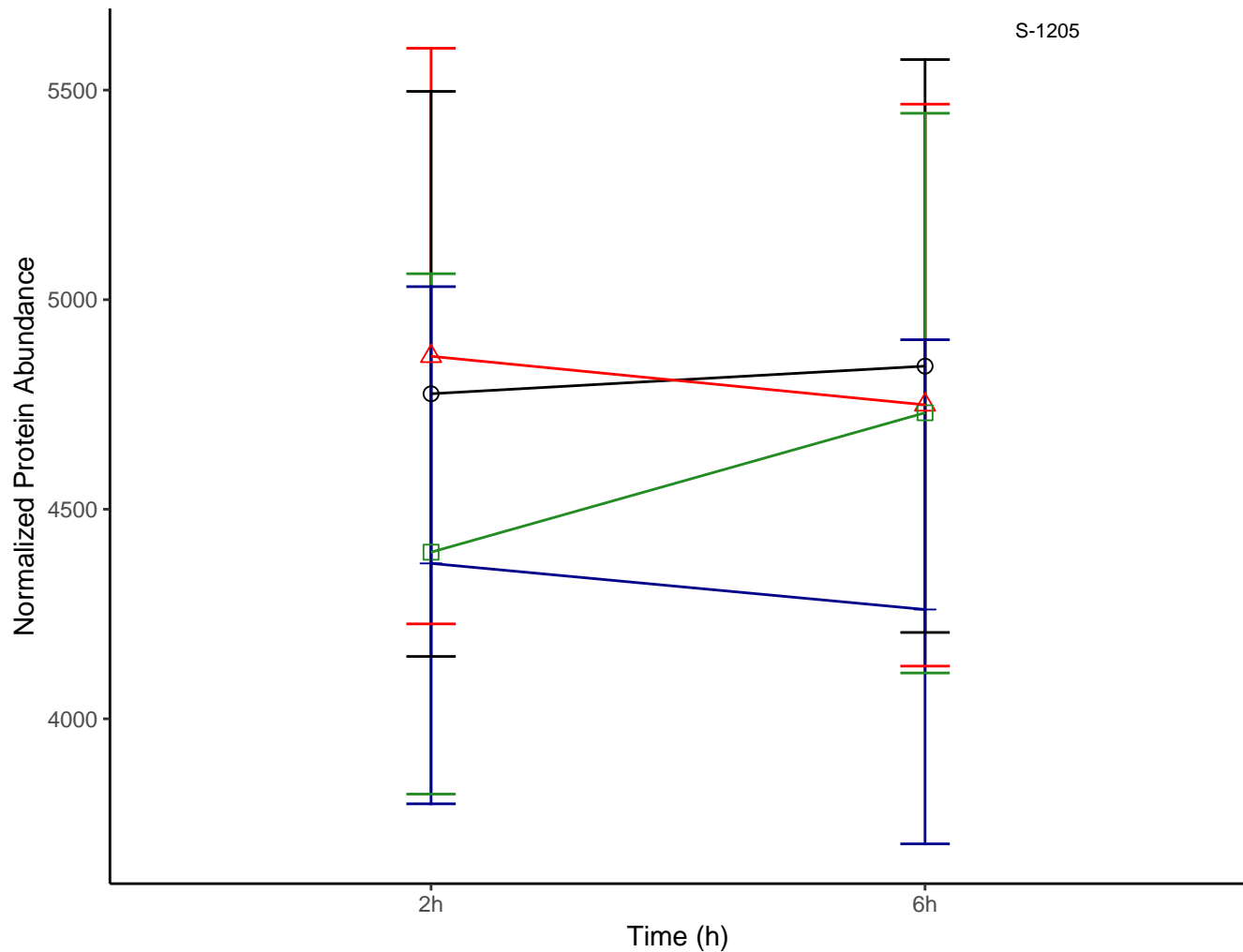
S-1204



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MENG\_STAAM

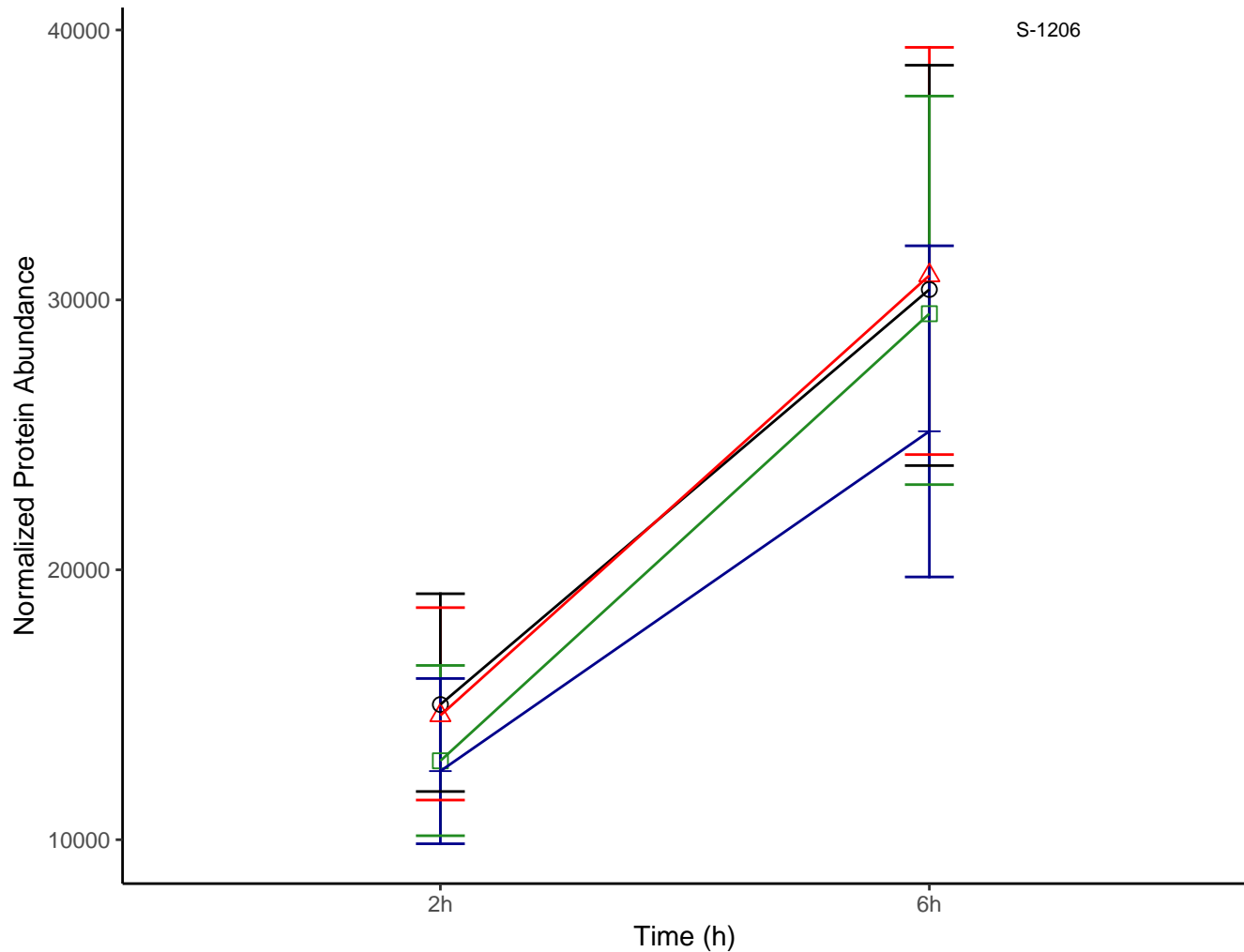
S-1205



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# METK\_STAAM

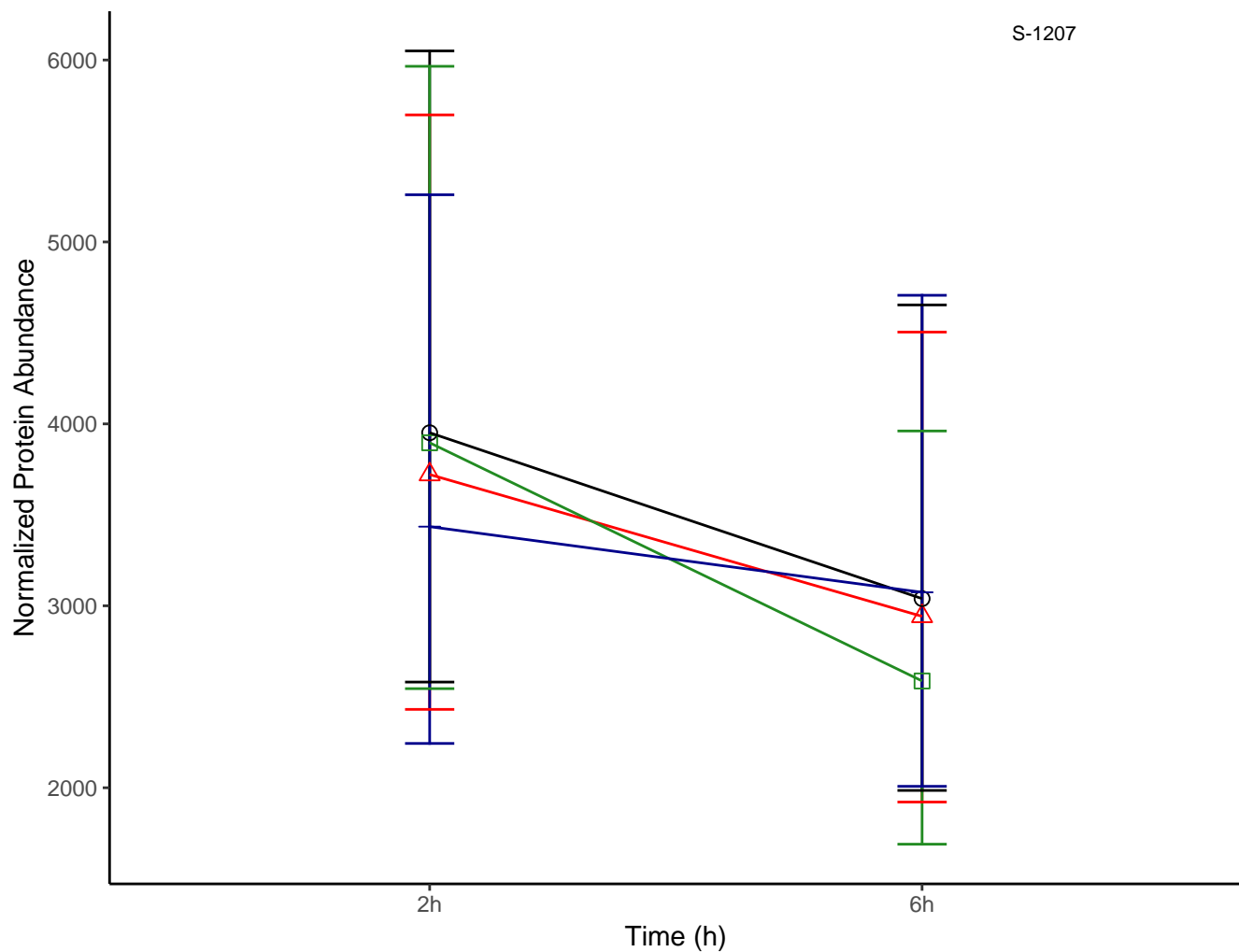
S-1206



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# METN2\_STAAM

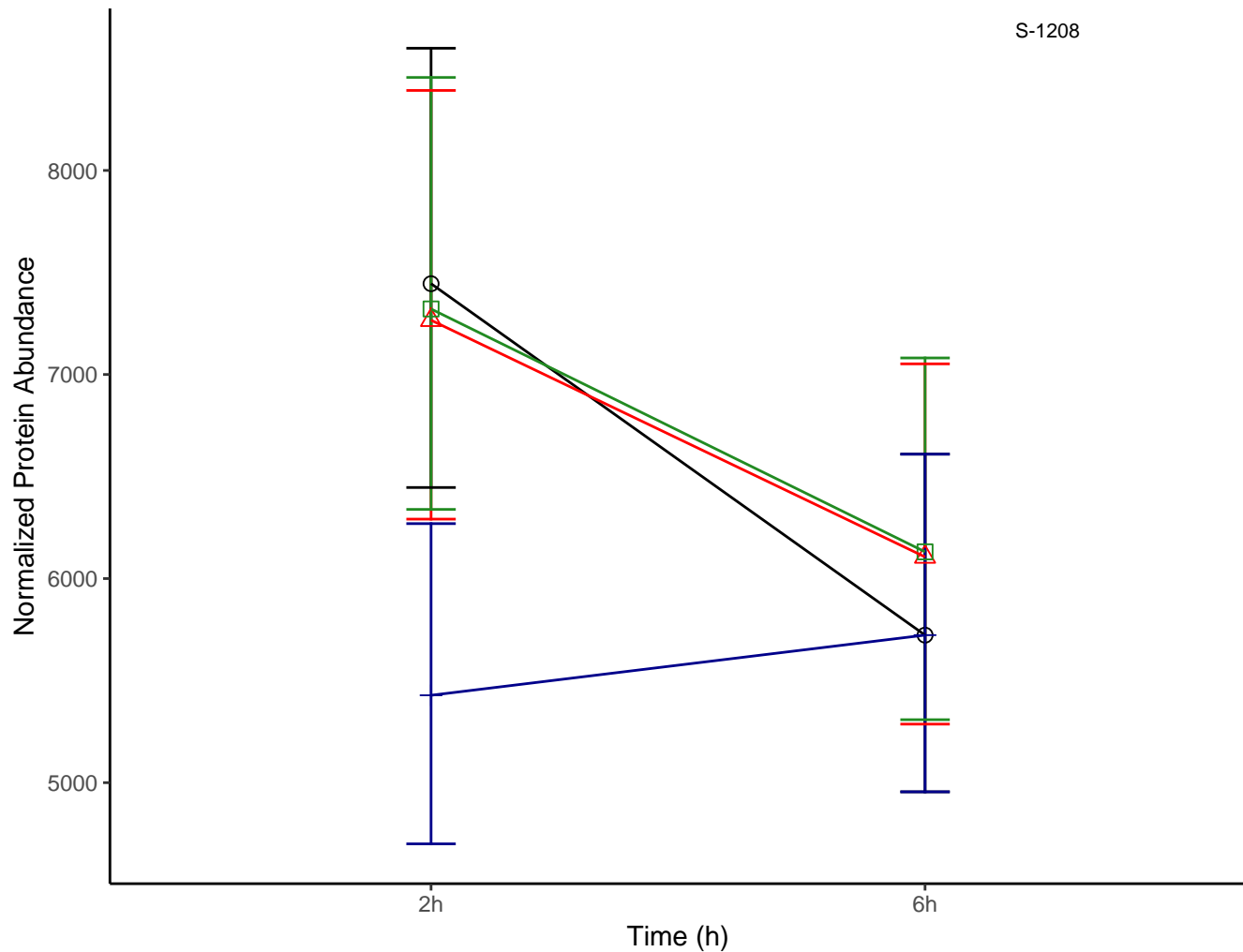
S-1207



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MGRA\_STAAM

S-1208

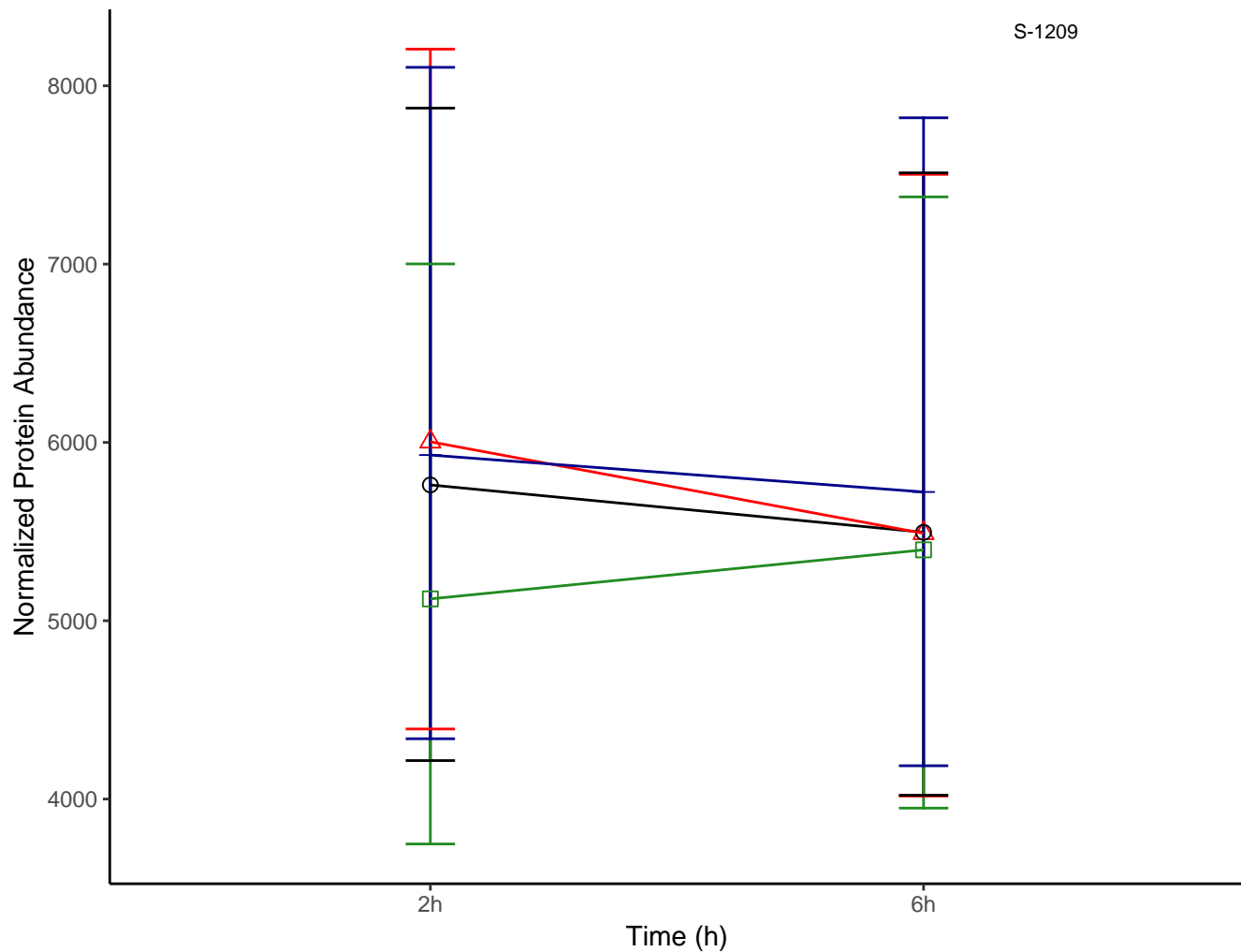


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MIAB\_STAAM

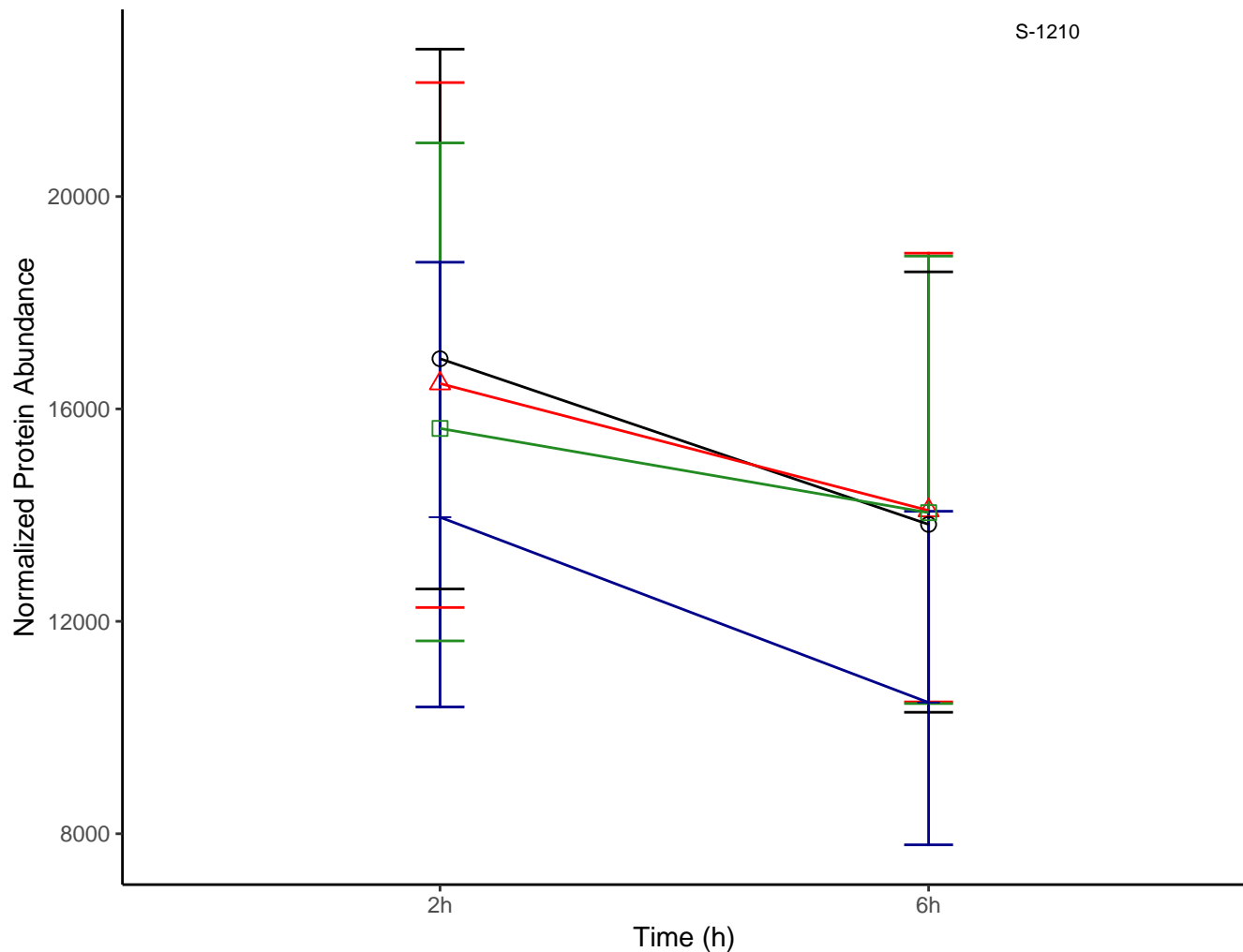
S-1209



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MNME\_STAAM

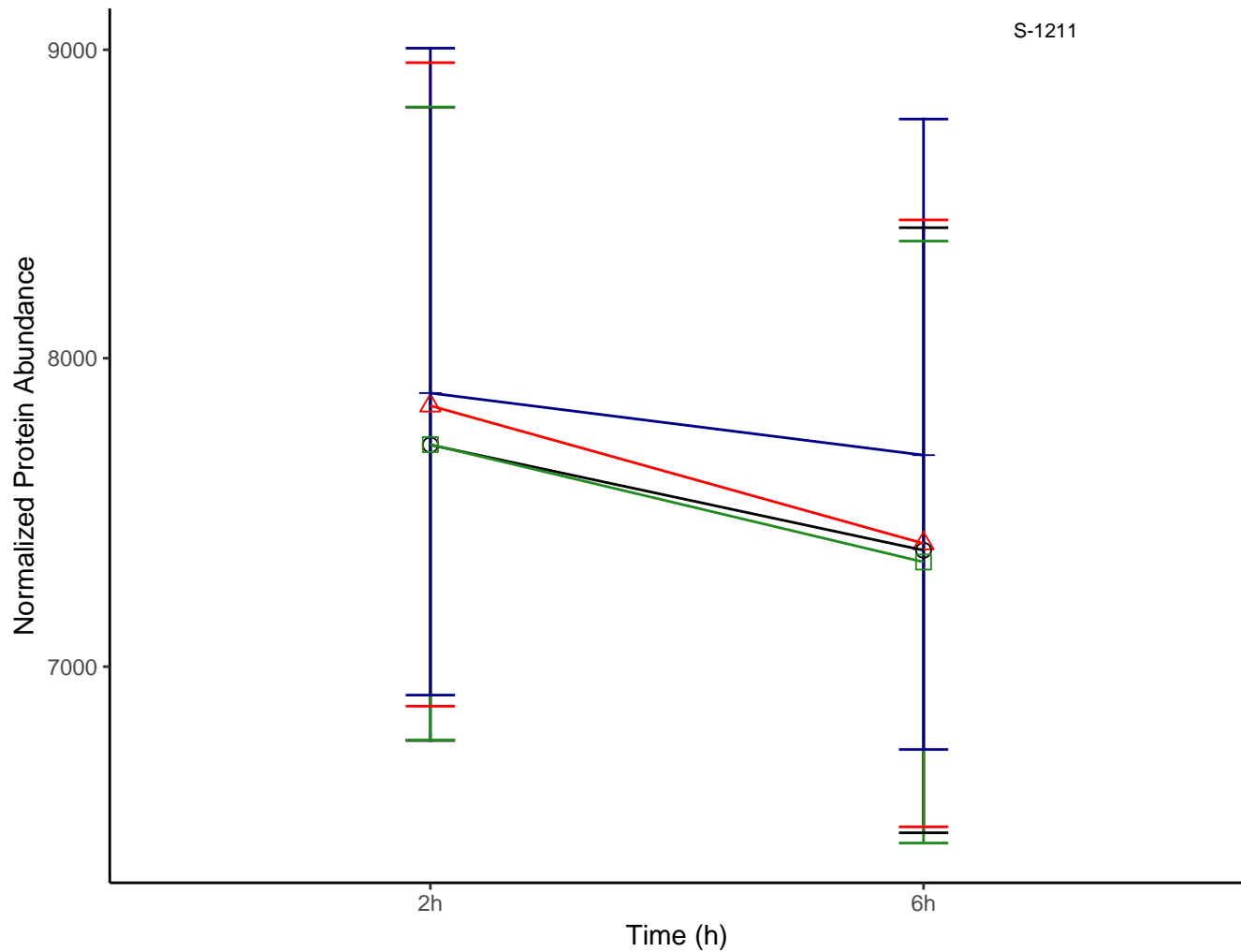
S-1210



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# MNMG\_STAAM

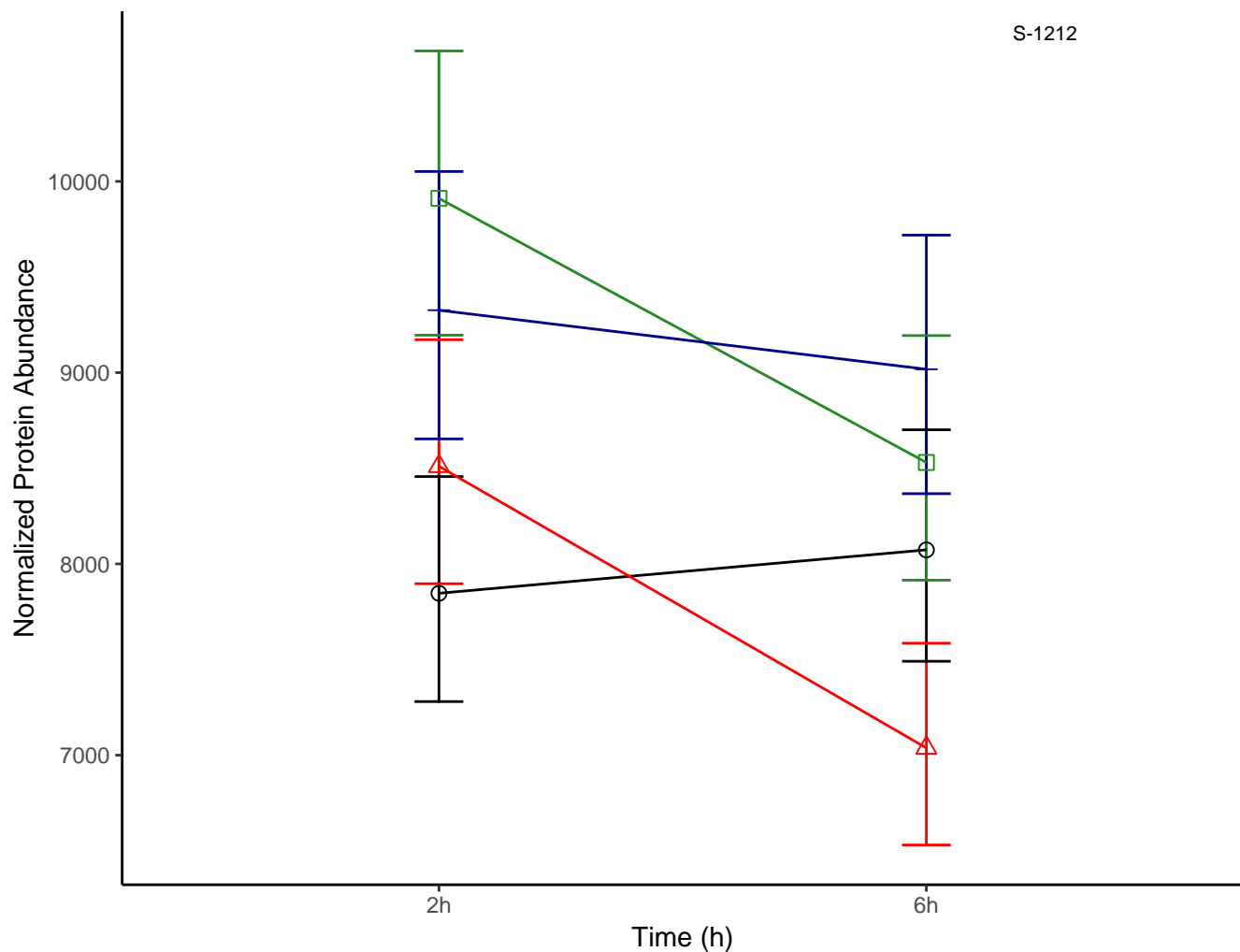
S-1211



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MOAC\_STAAM

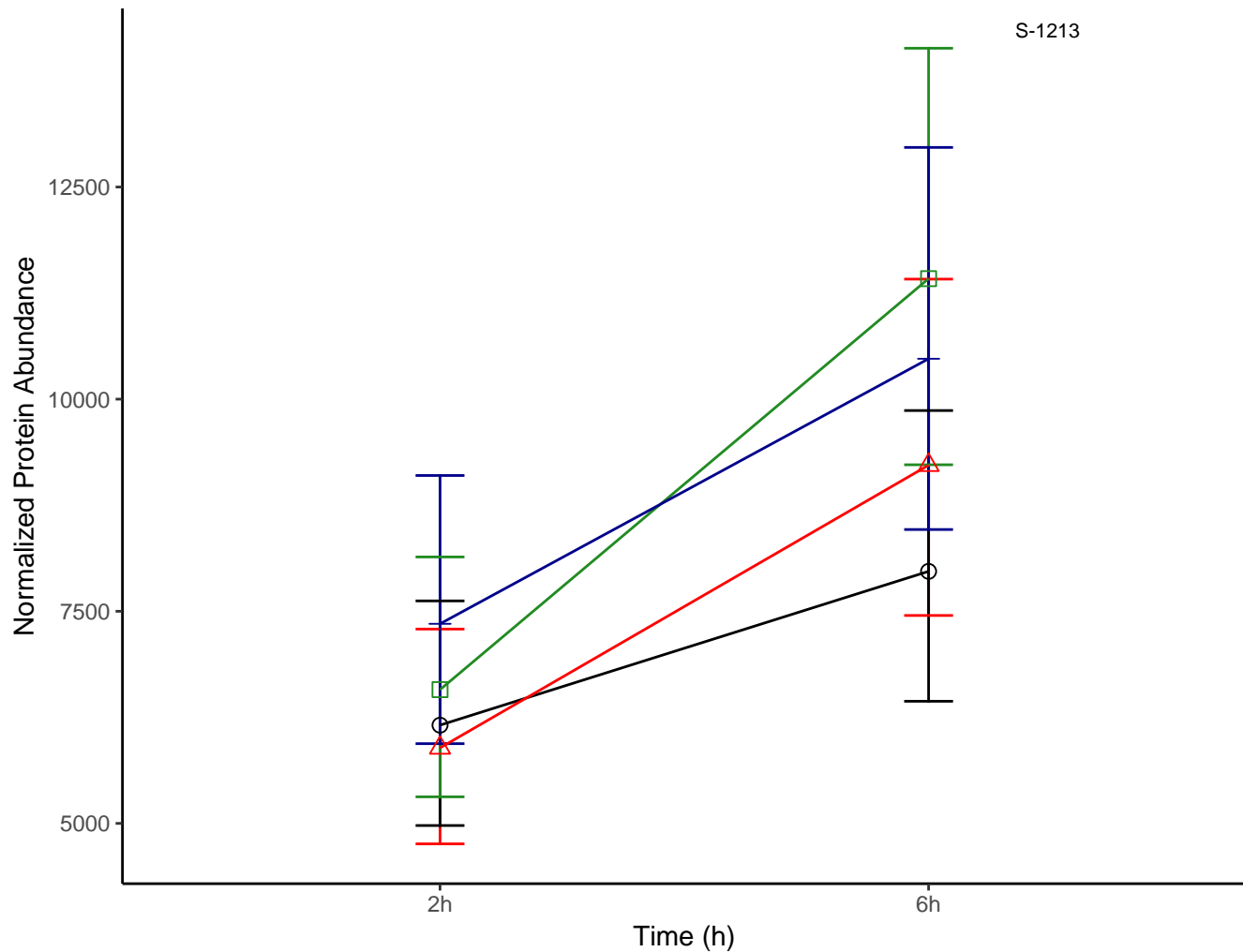
S-1212



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MOEA\_STAAM

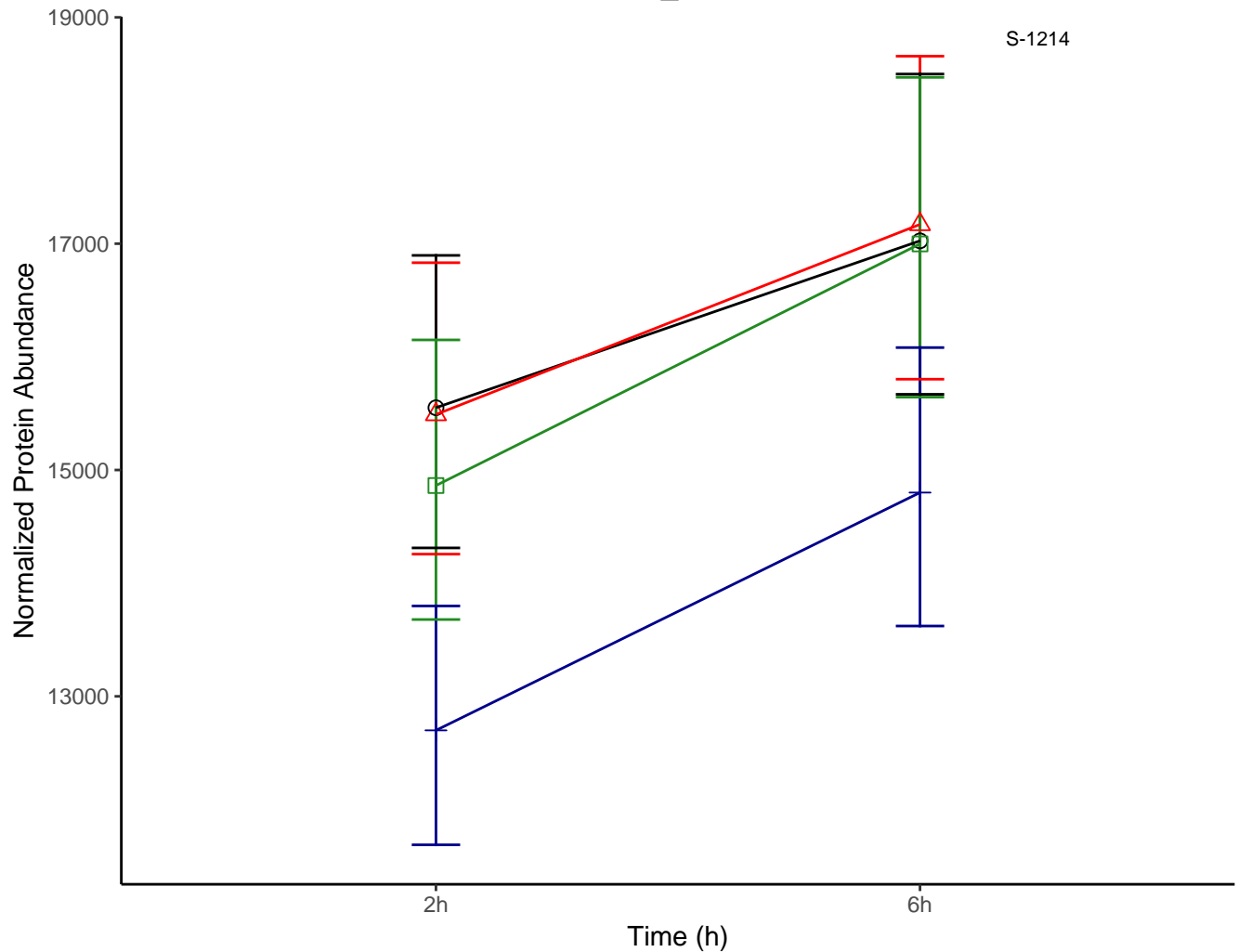
S-1213



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MQO2\_STAAM

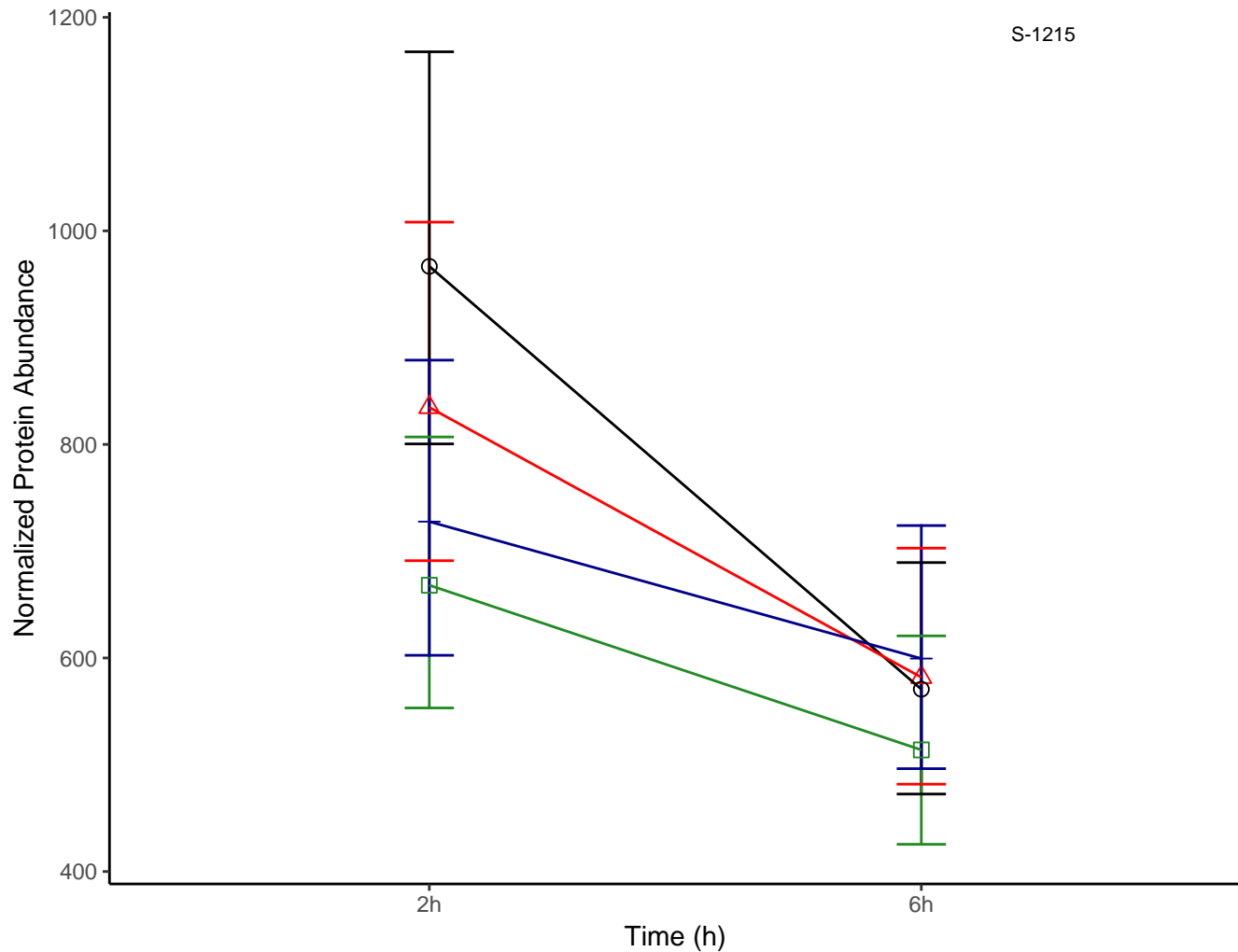
S-1214



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MSRA1\_STAAM

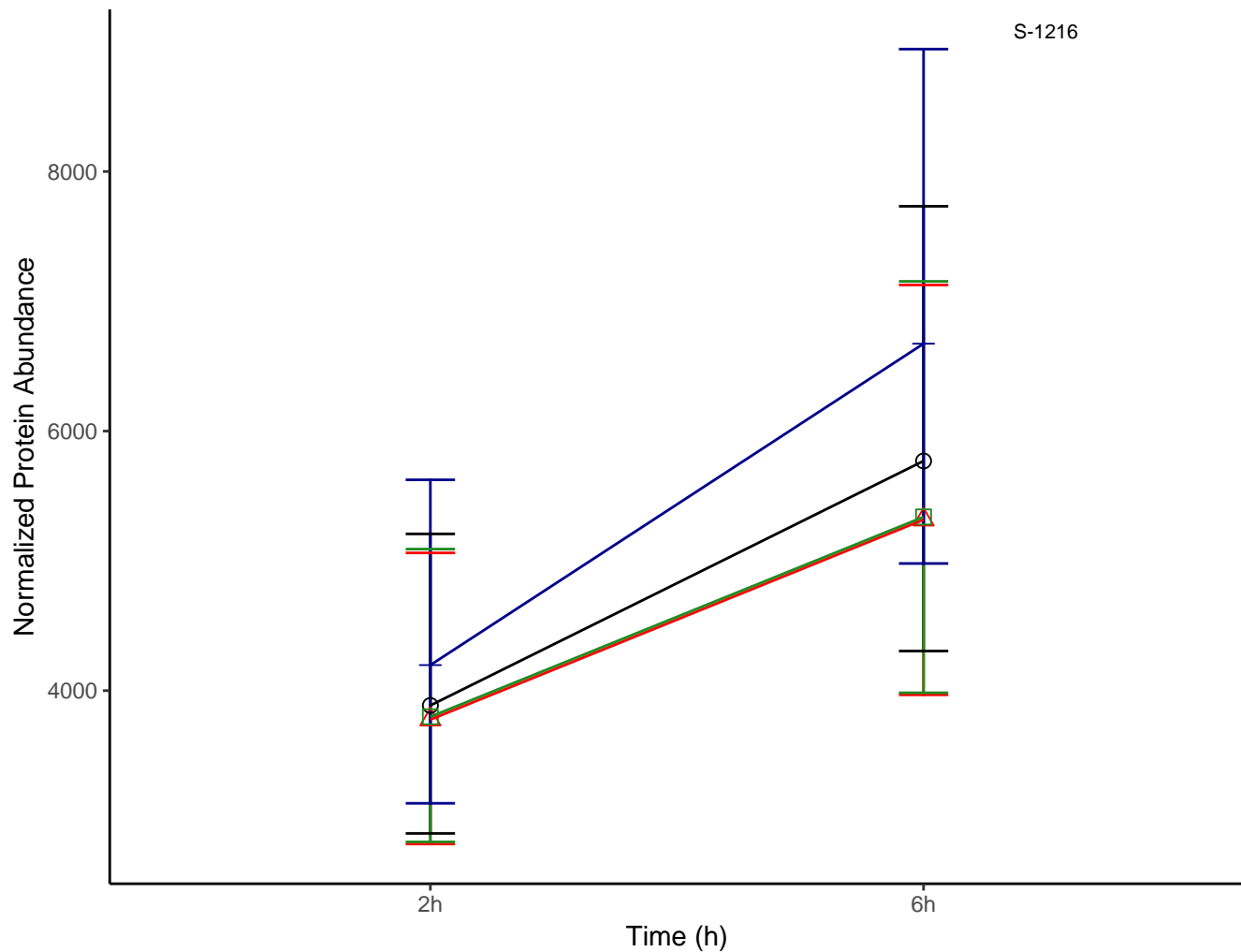
S-1215



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MSRA2\_STAAM

S-1216

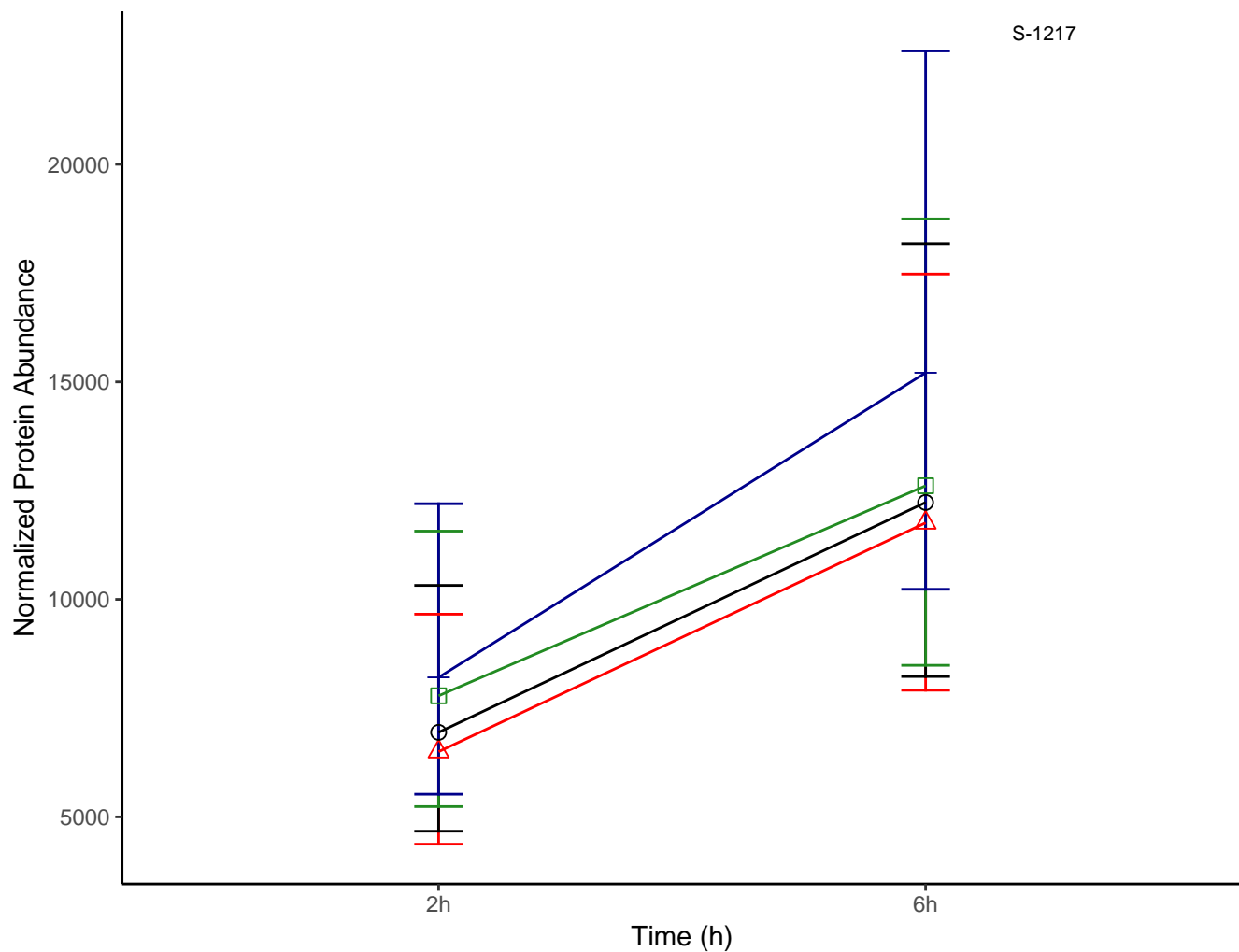


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# MSRB\_STAAM

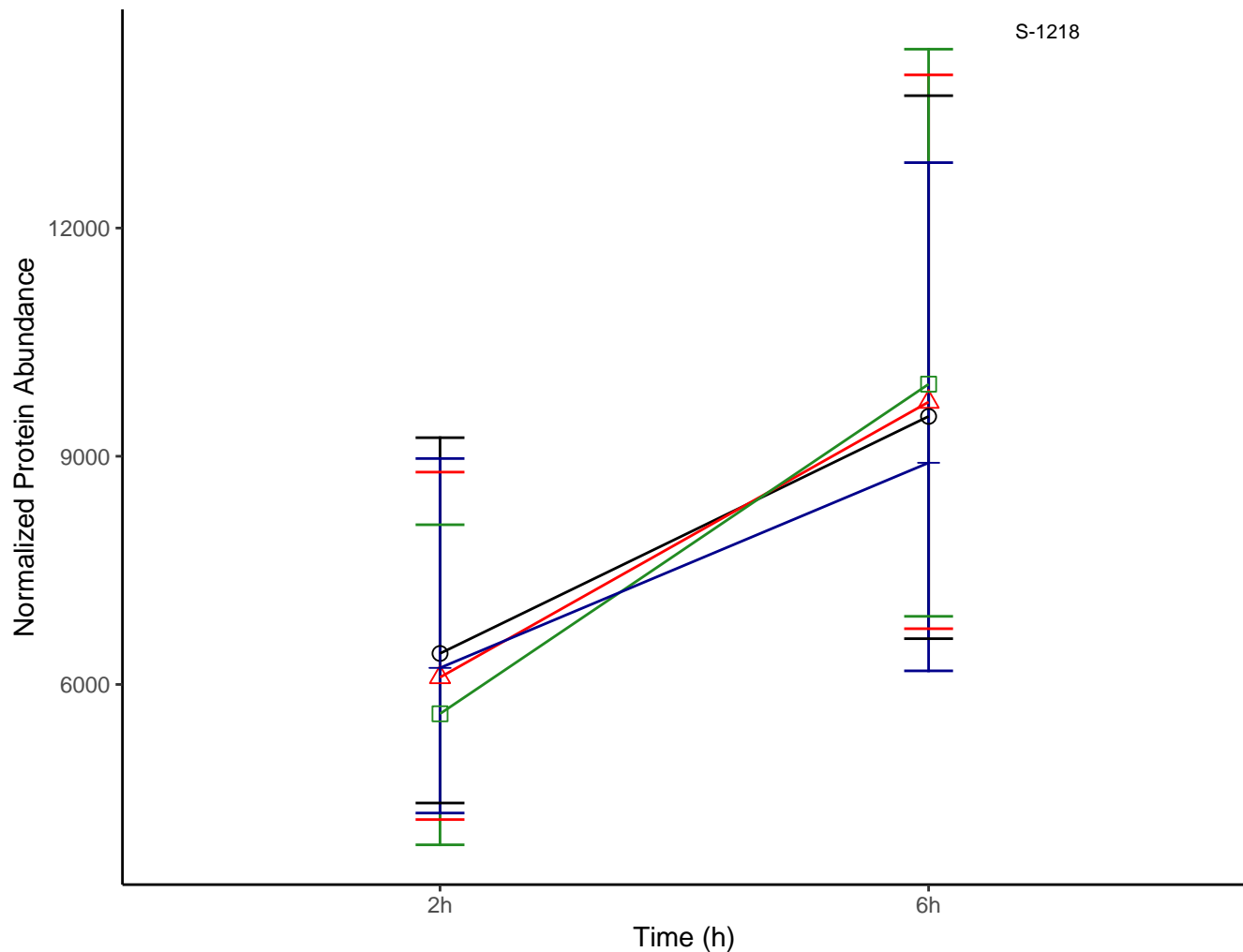
S-1217



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MTLD\_STAAM

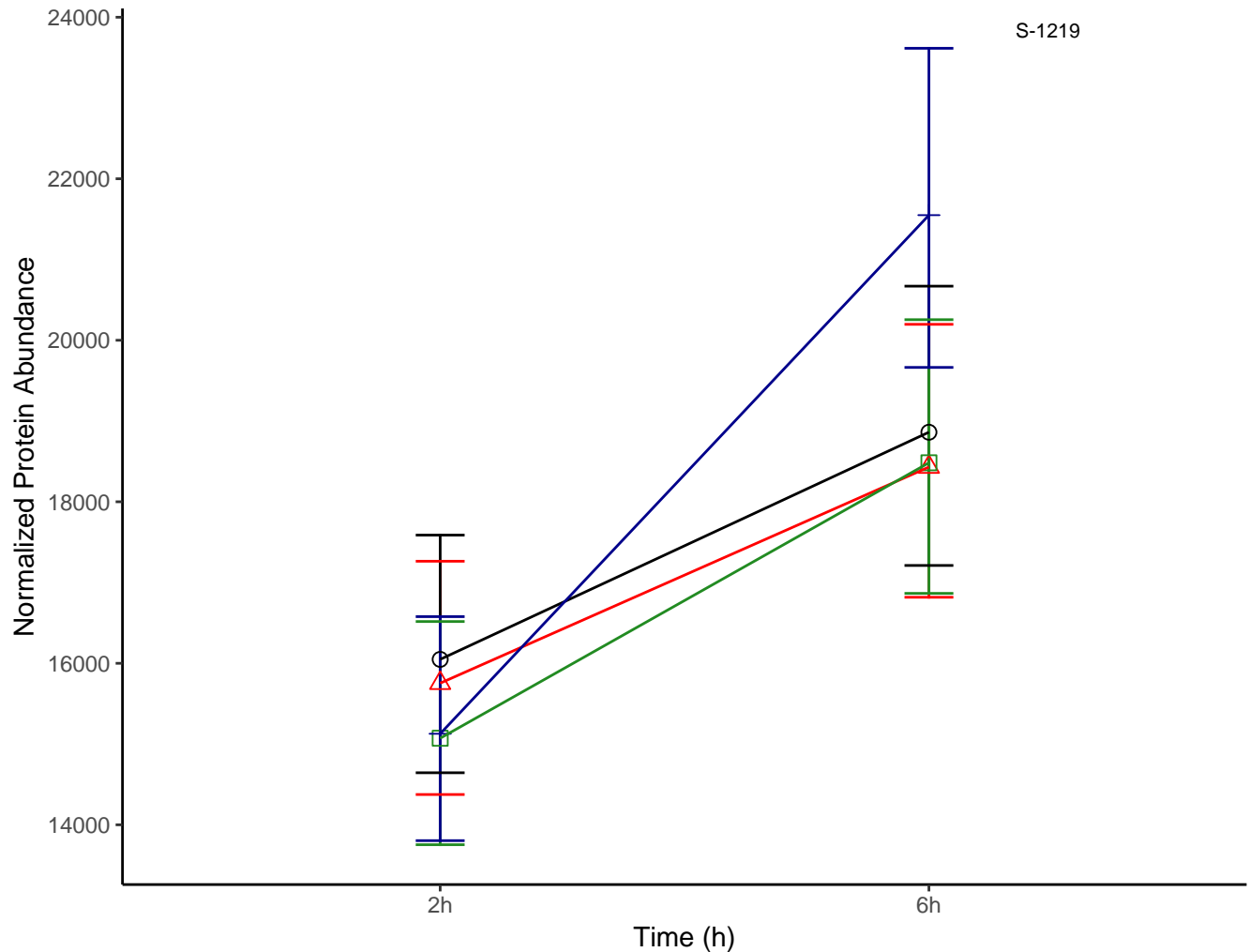
S-1218



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MTNN\_STAAM

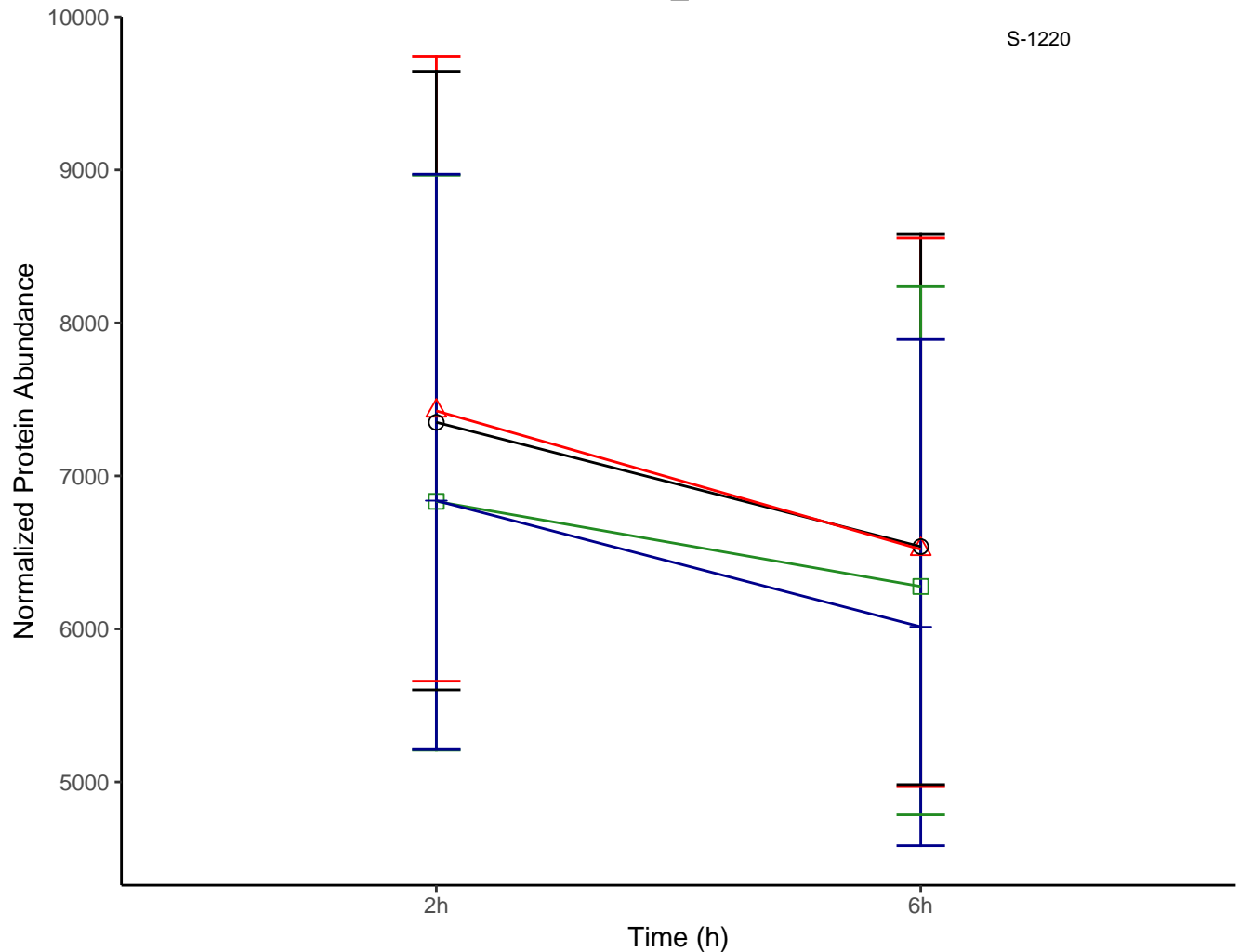
S-1219



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURA1\_STAAM

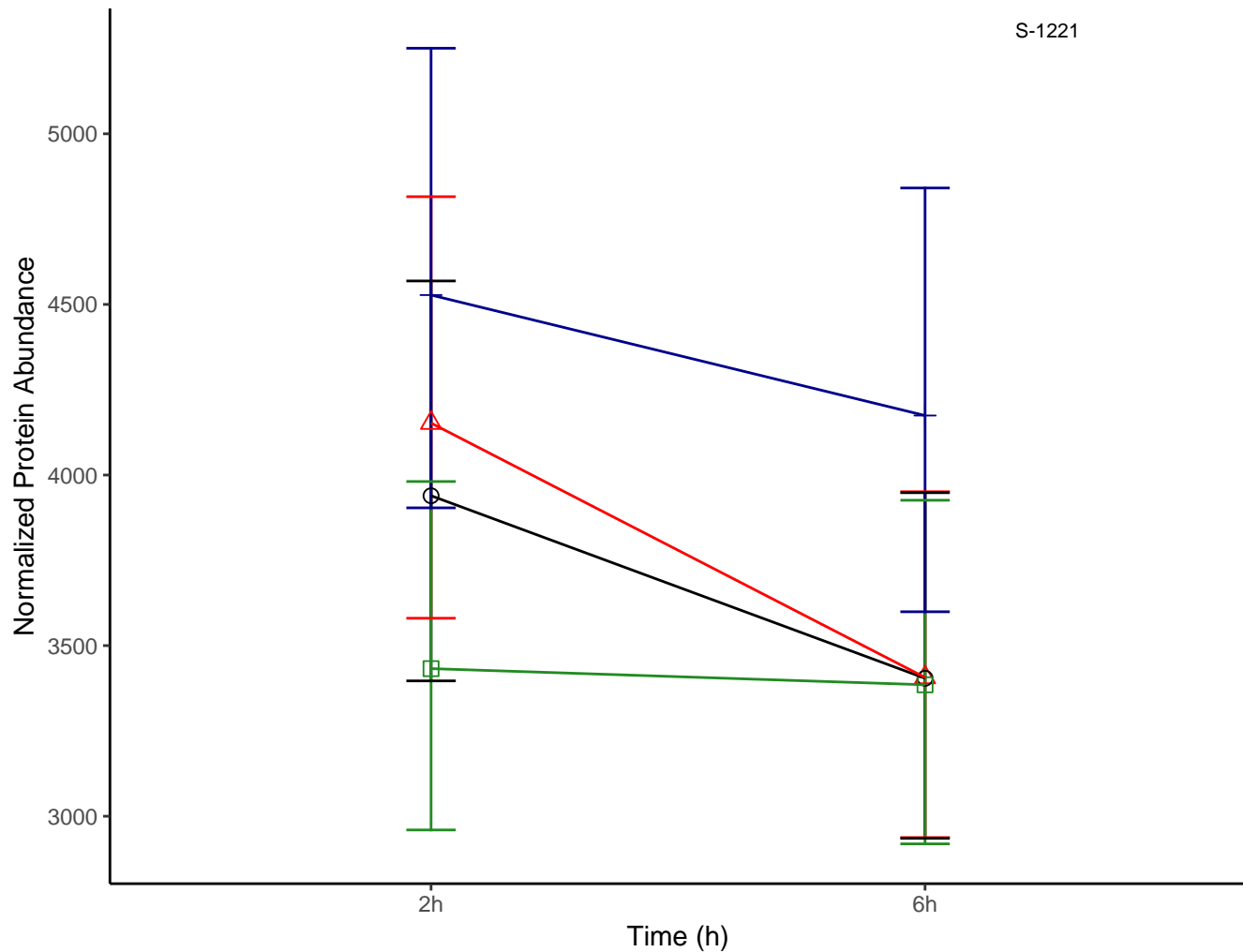
S-1220



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURA2\_STAAM

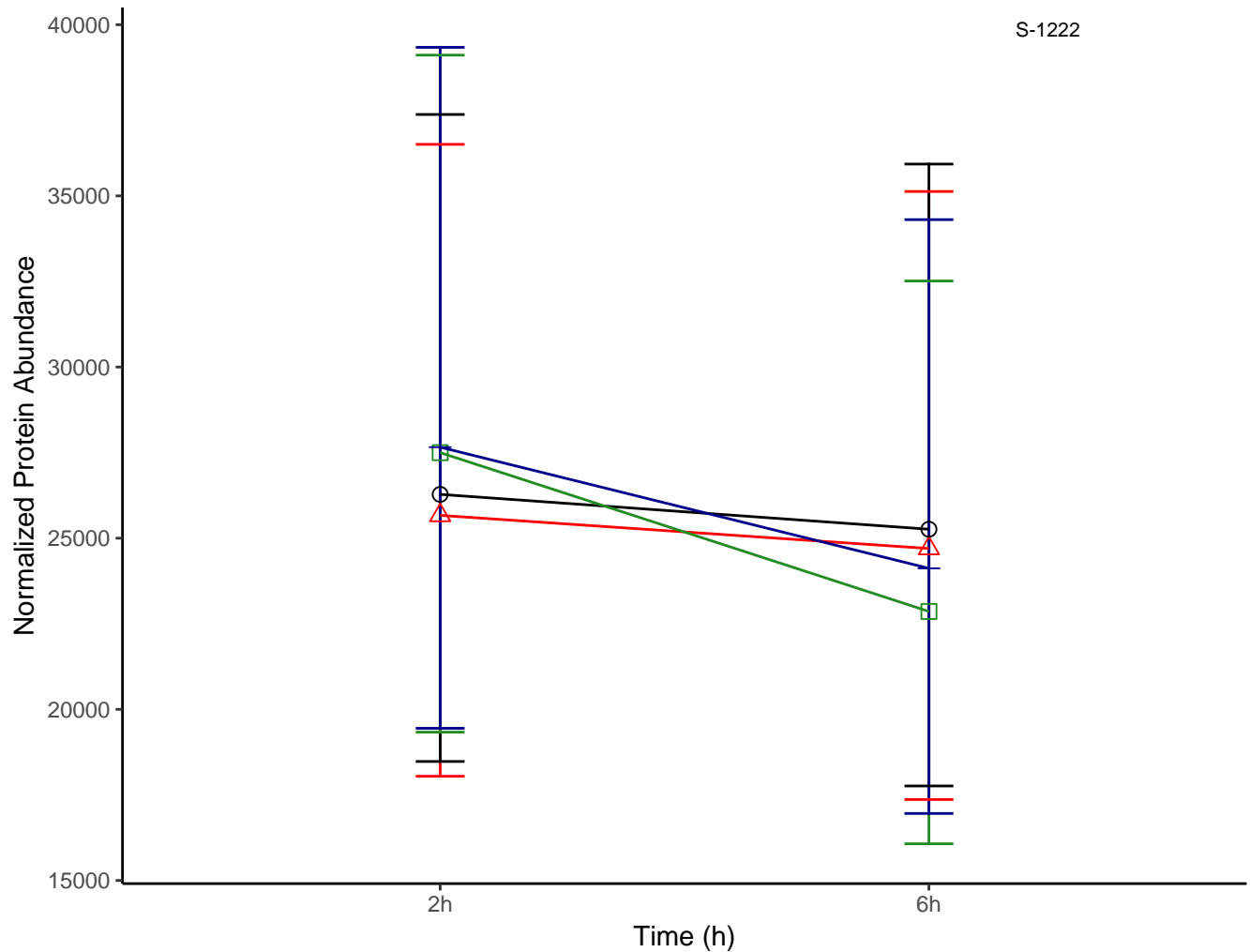
S-1221



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MURC\_STAAM

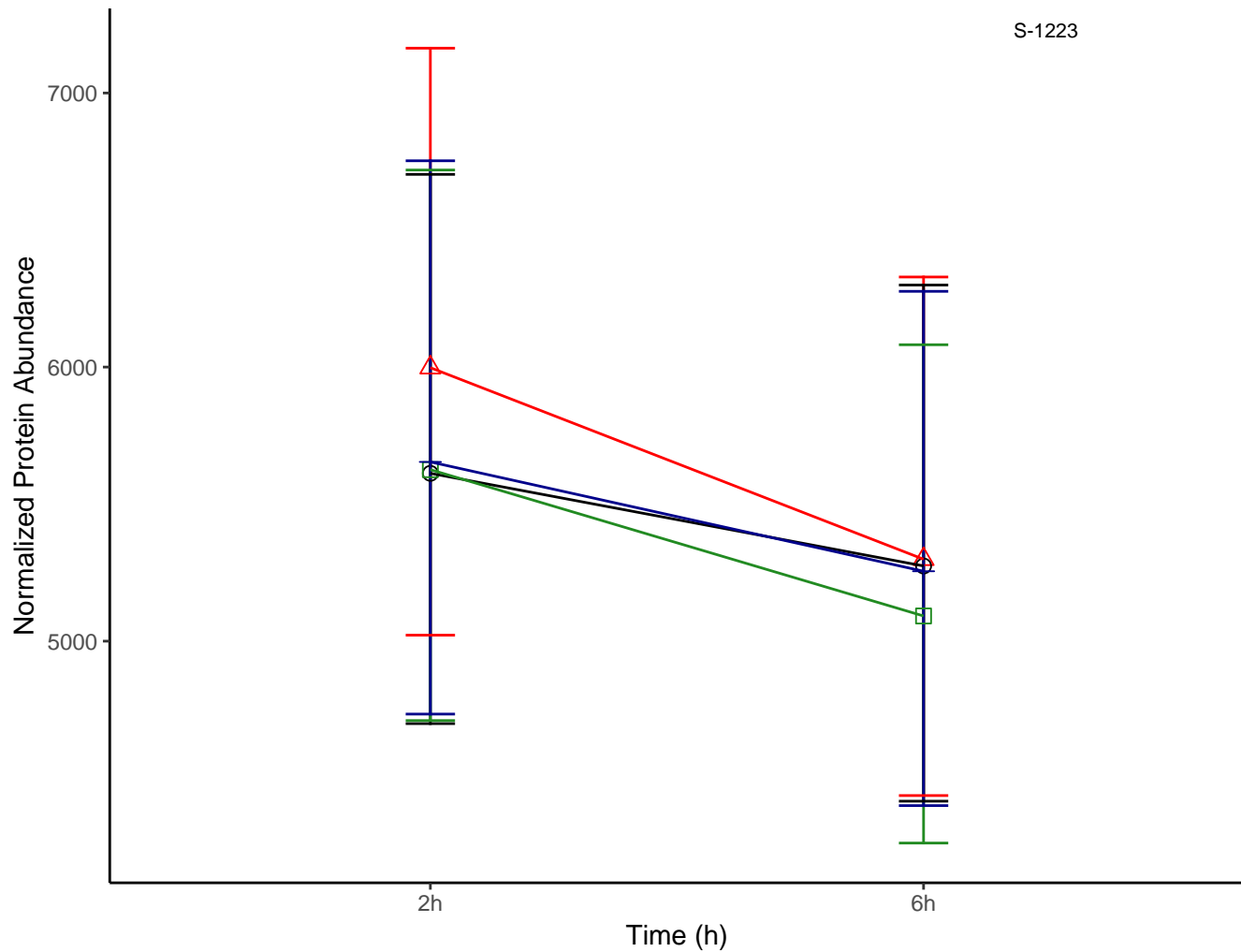
S-1222



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURD\_STAAM

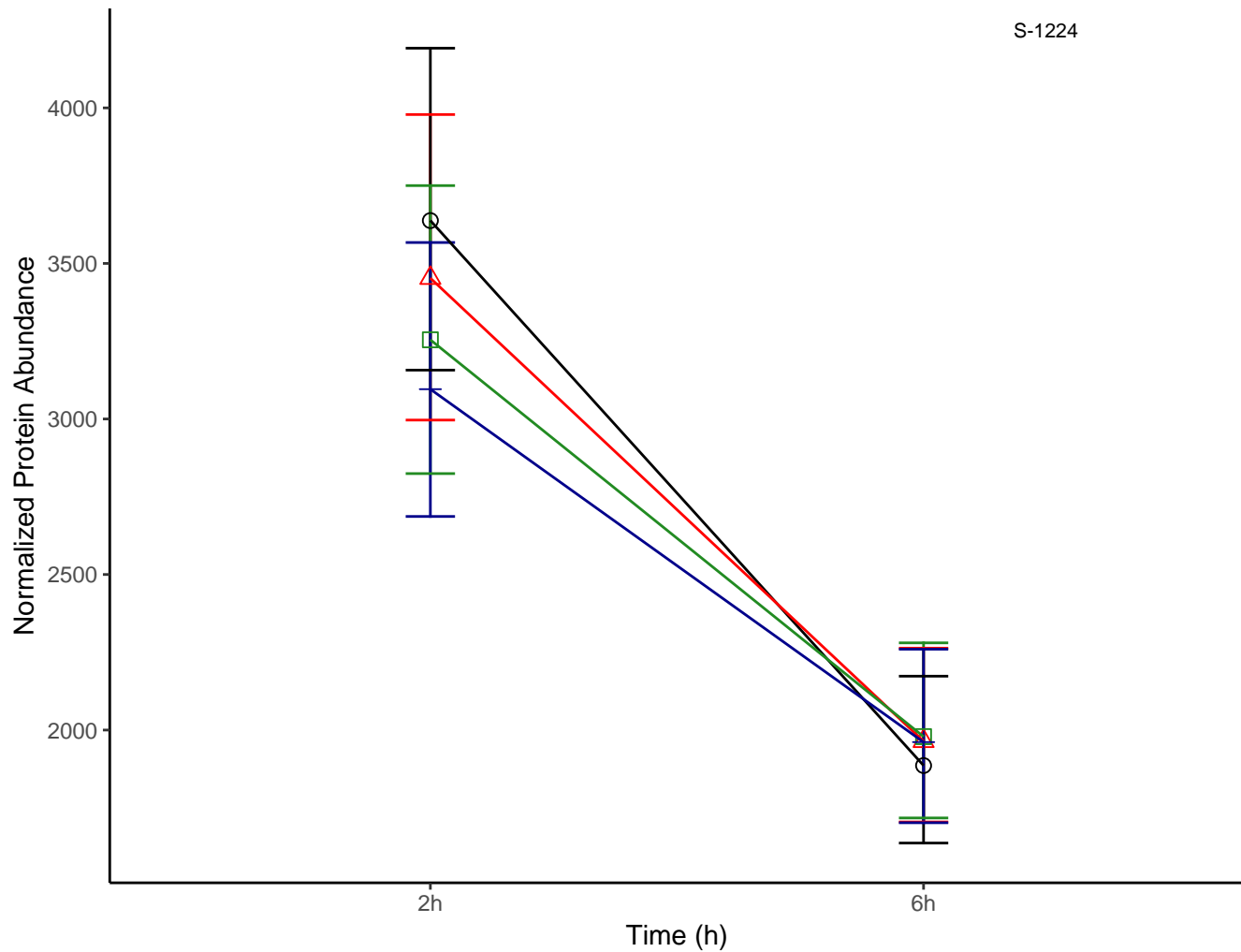
S-1223



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURE\_STAAM

S-1224

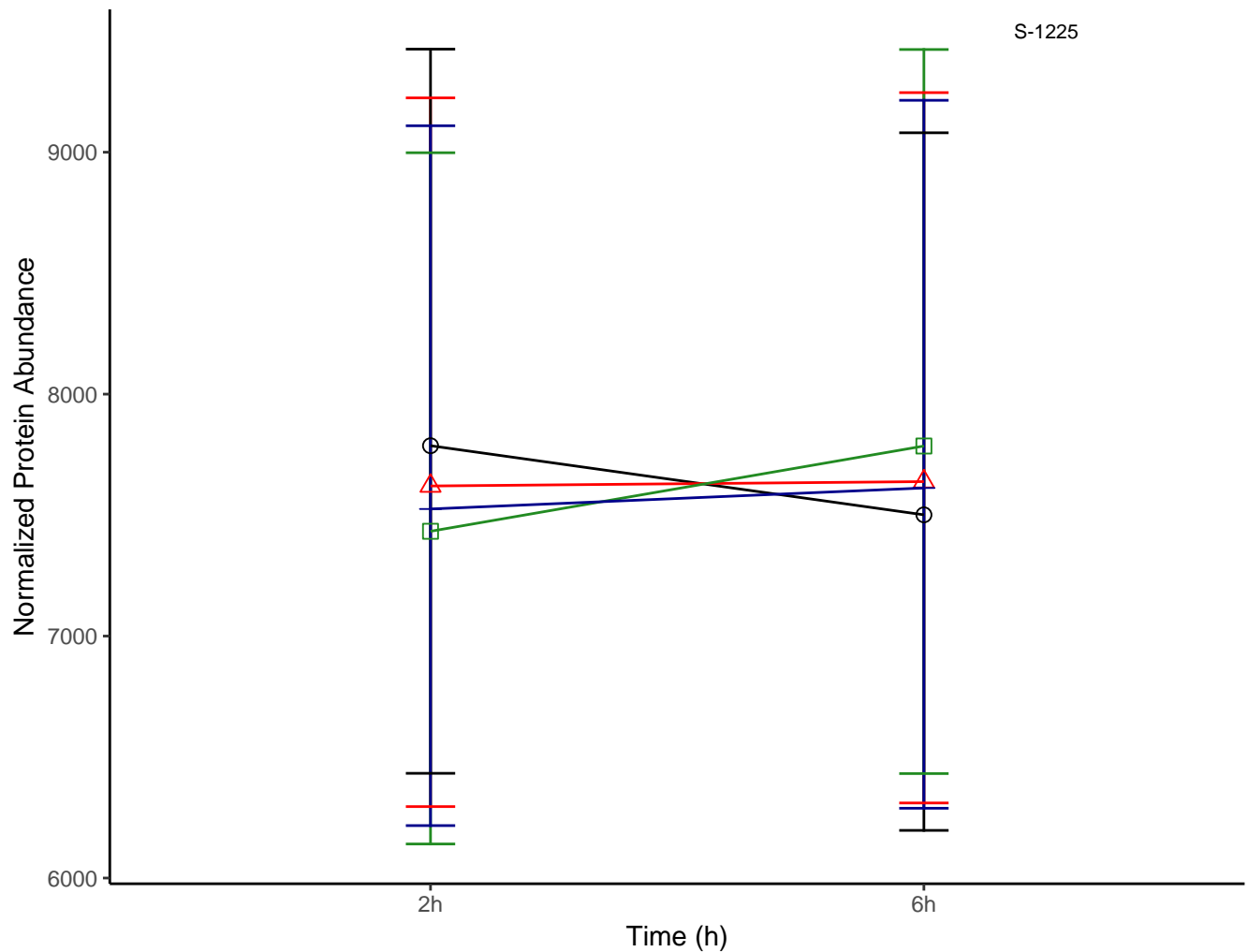


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# MURG\_STAAM

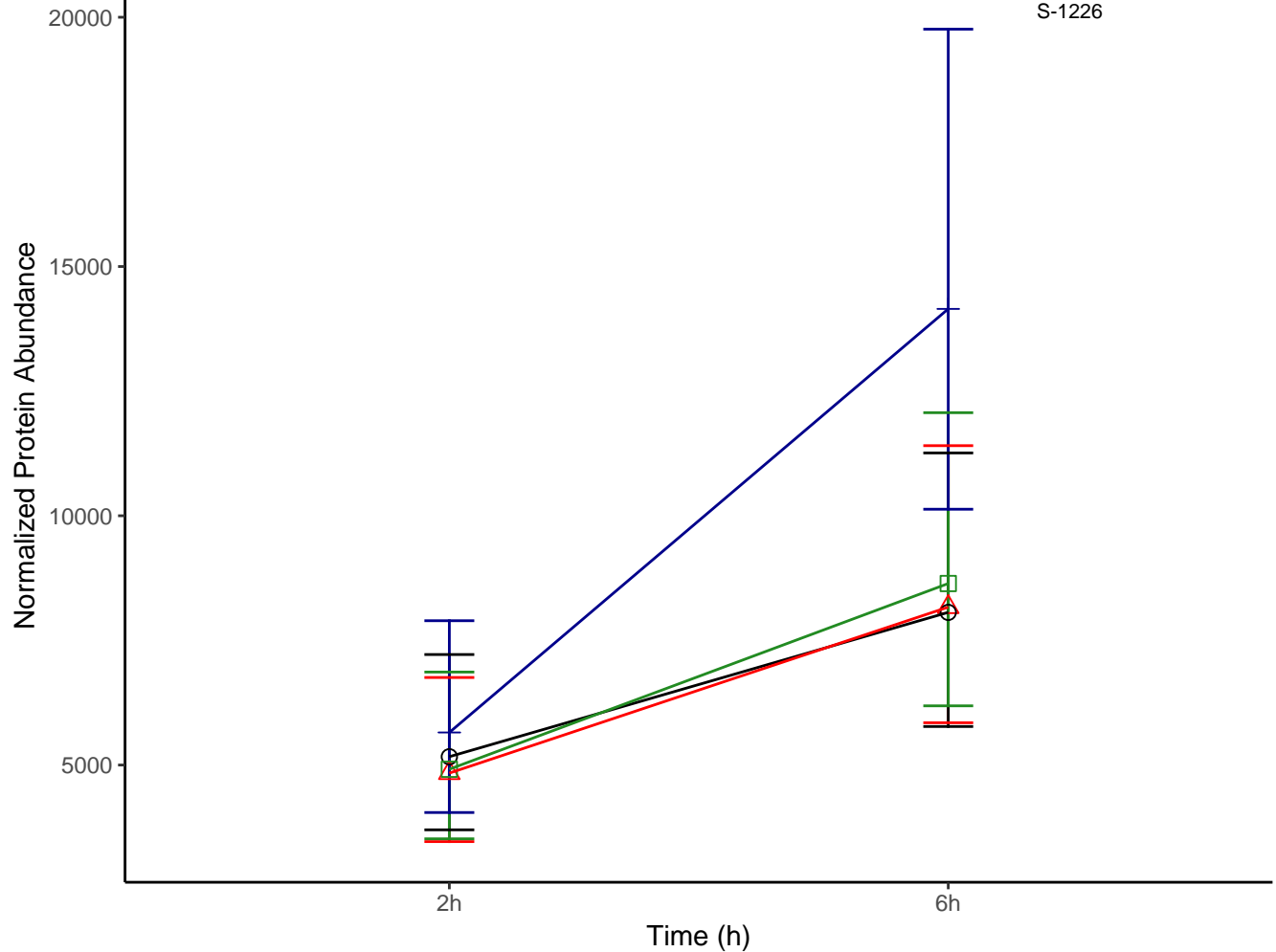
S-1225



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MURI\_STAAM

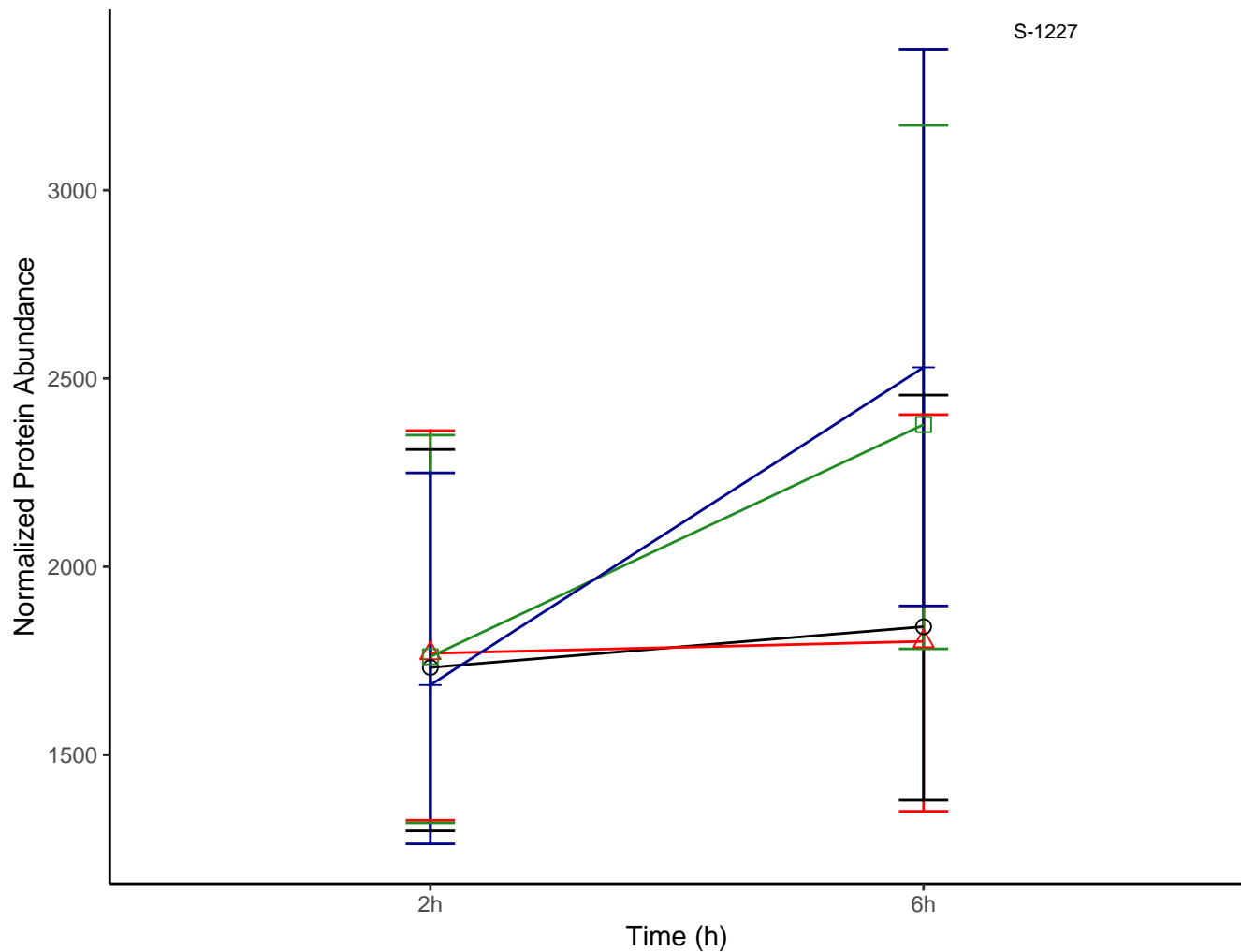
S-1226



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# MUTS\_STAAM

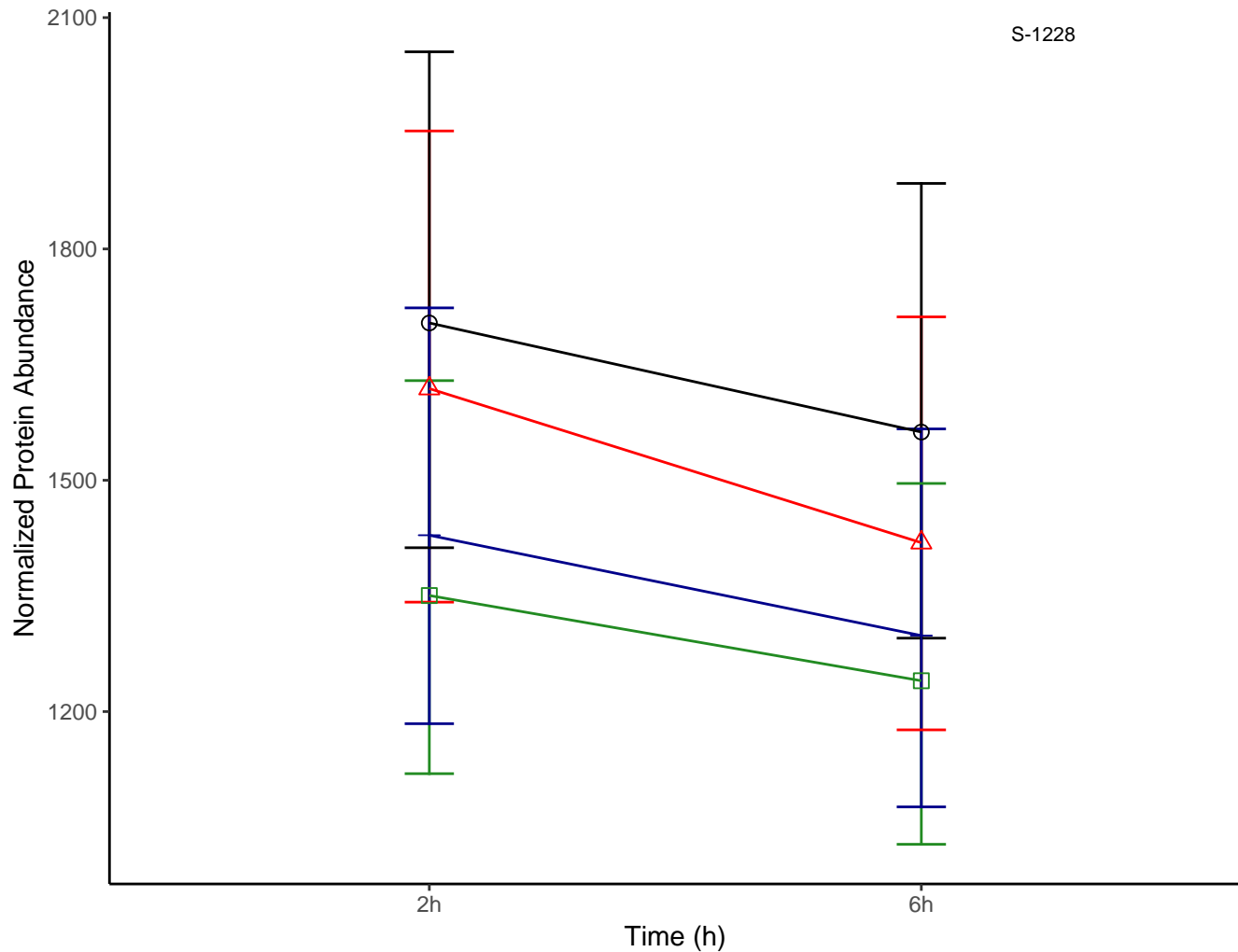
S-1227



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NADD\_STAAM

S-1228



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NADE\_STAAM

S-1229

Normalized Protein Abundance

6000

5000

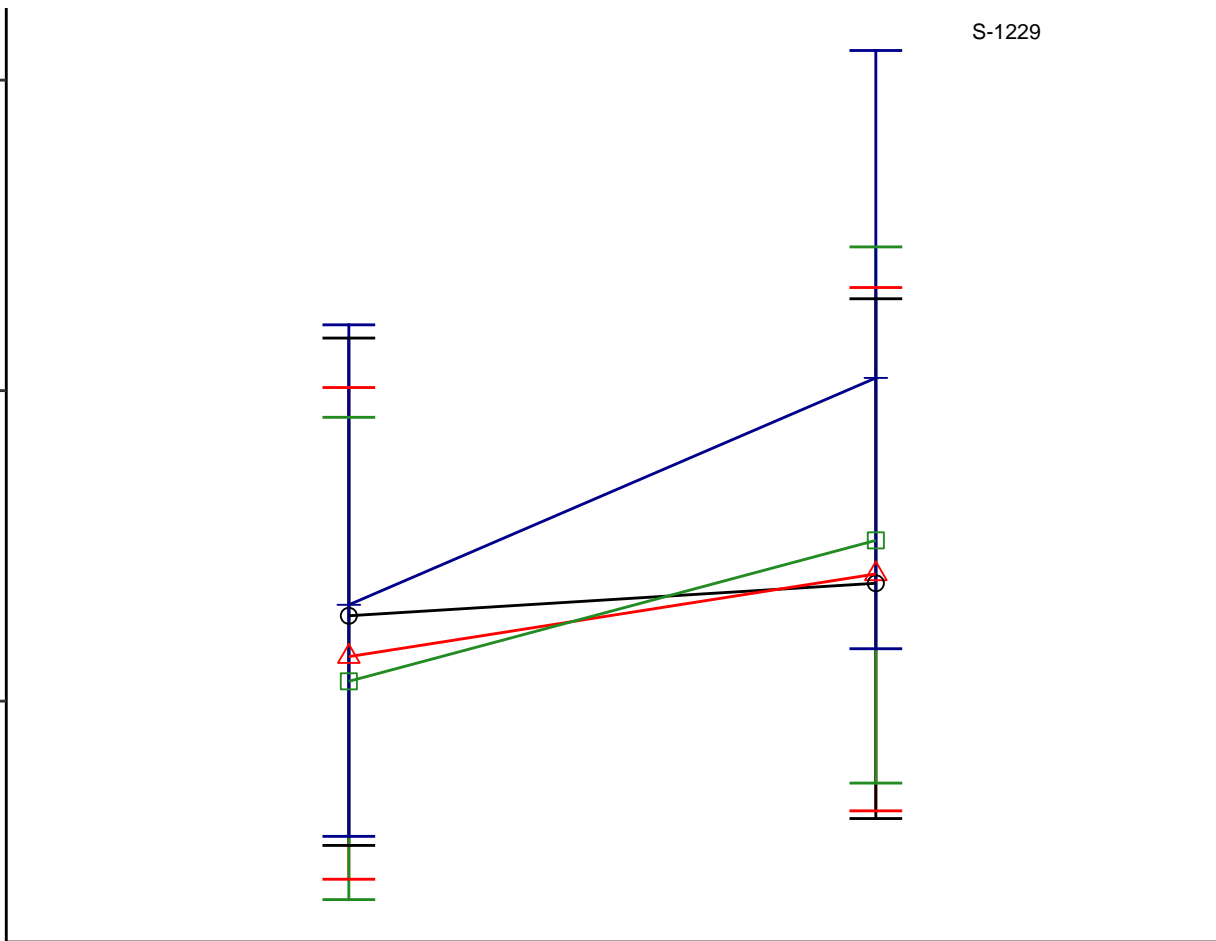
4000

2h

6h

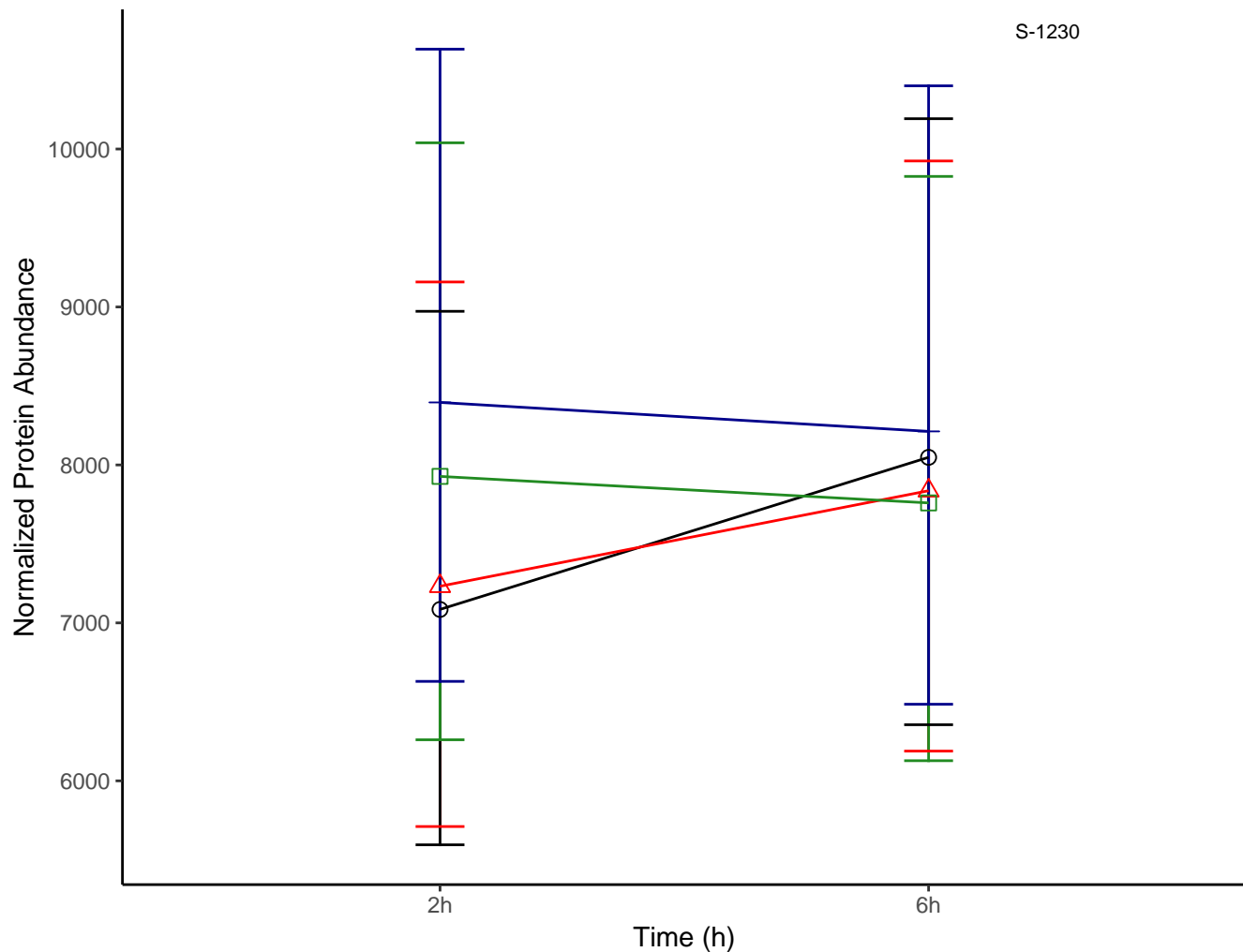
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# NAGD\_STAAM

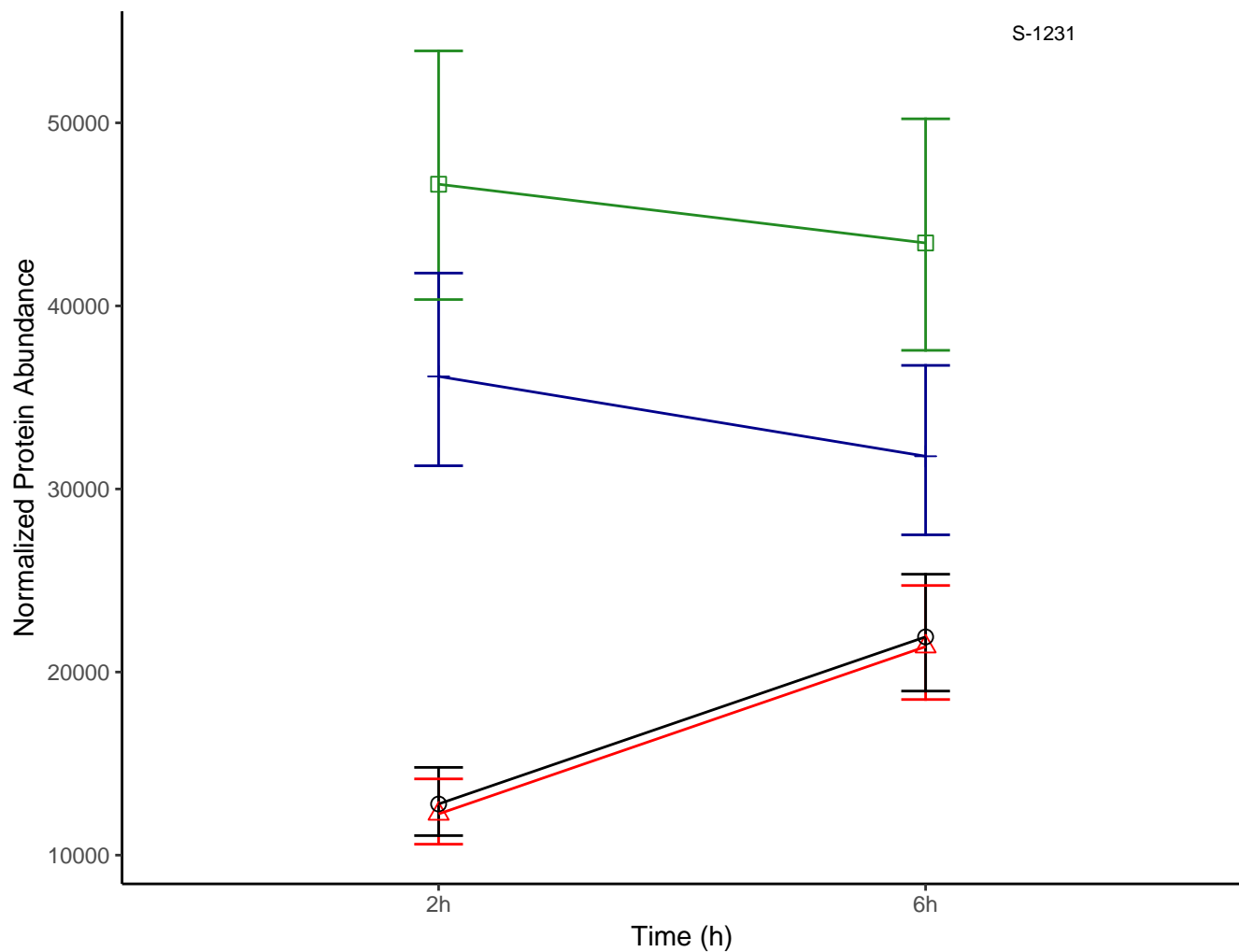
S-1230



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NDK\_STAAM

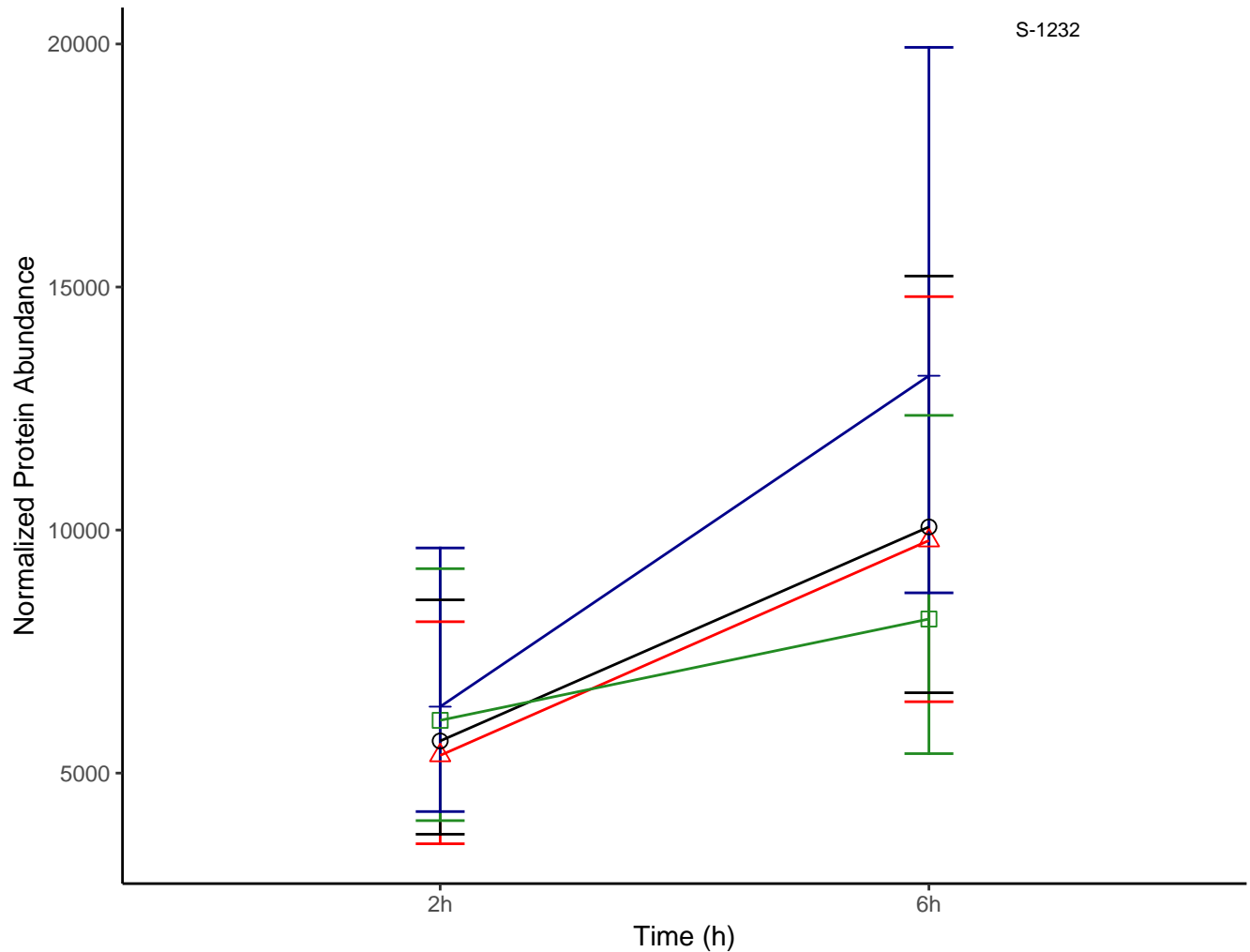
S-1231



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NRDR\_STAAM

S-1232

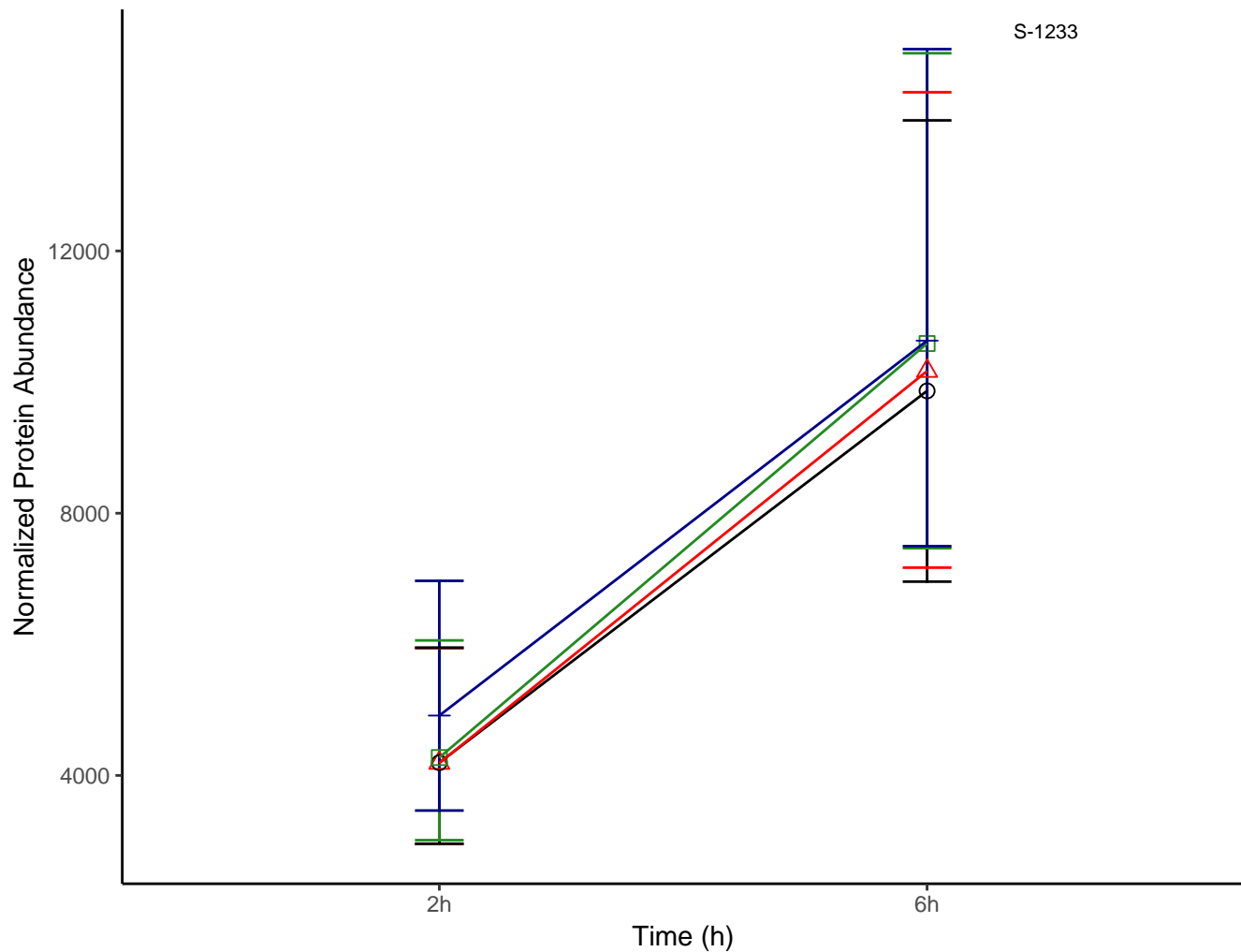


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# NREB\_STAAM

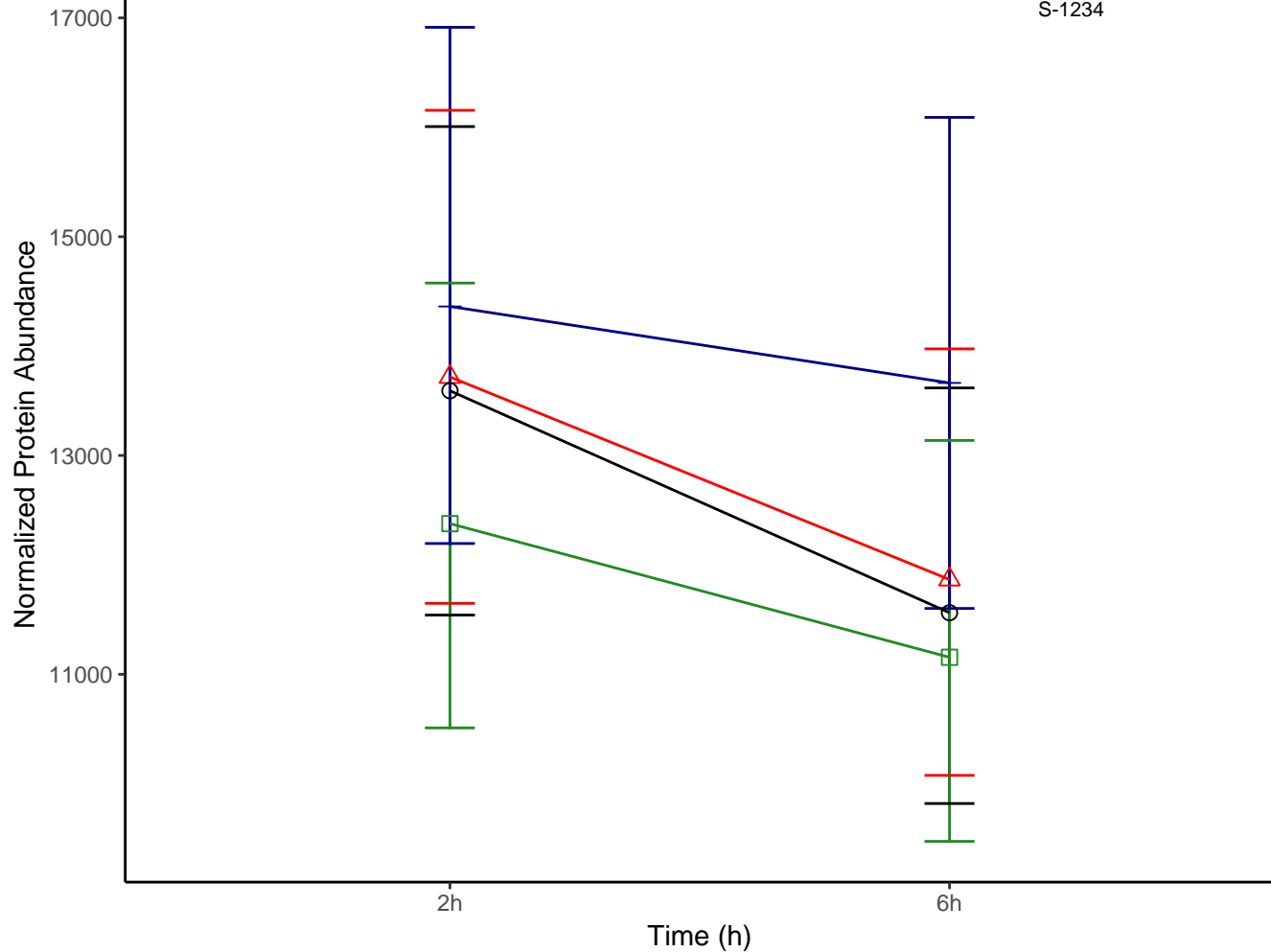
S-1233



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# NUSG\_STAAM

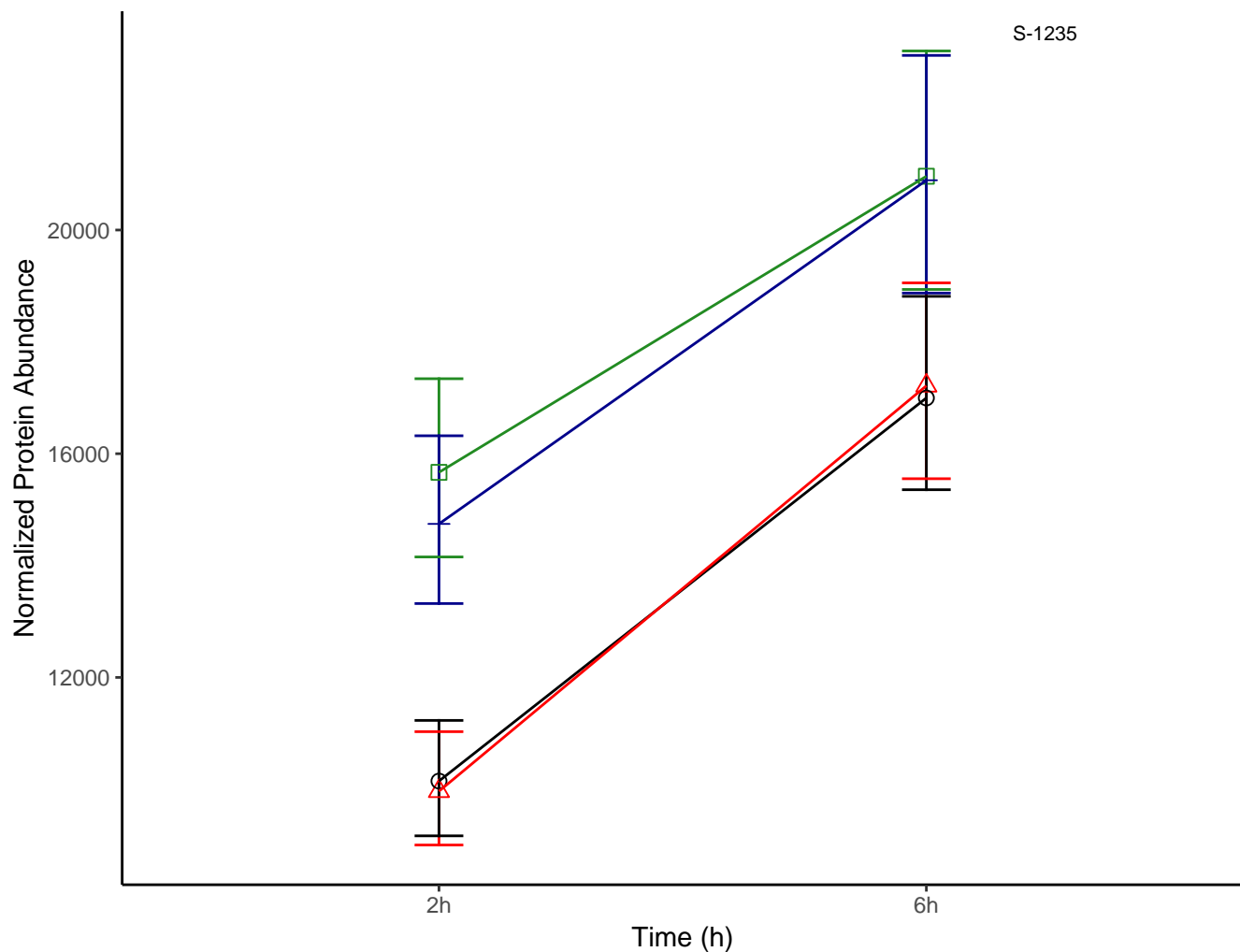
S-1234



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# OAT2\_STAAM

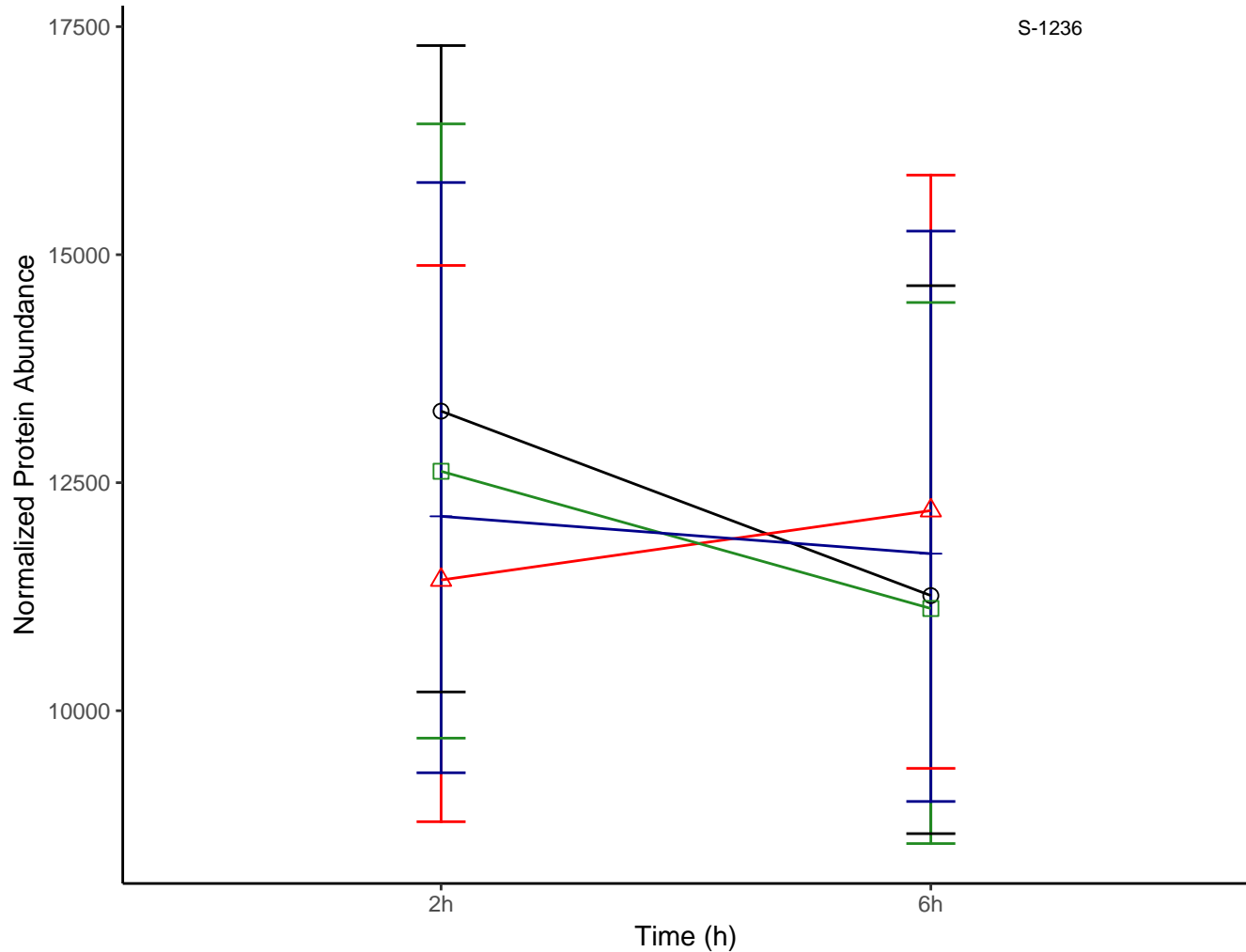
S-1235



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OBG\_STAAM

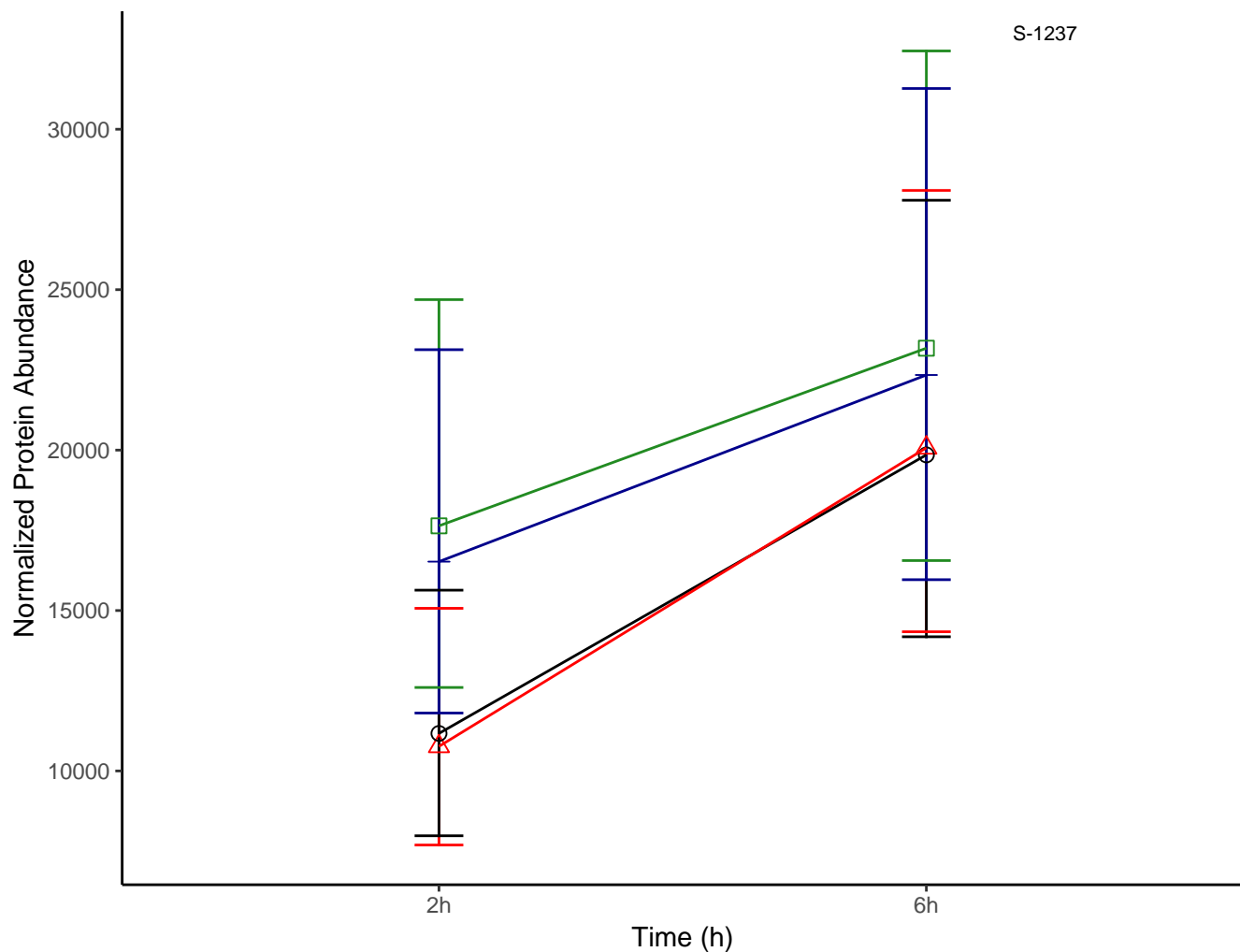
S-1236



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ODO1\_STAAM

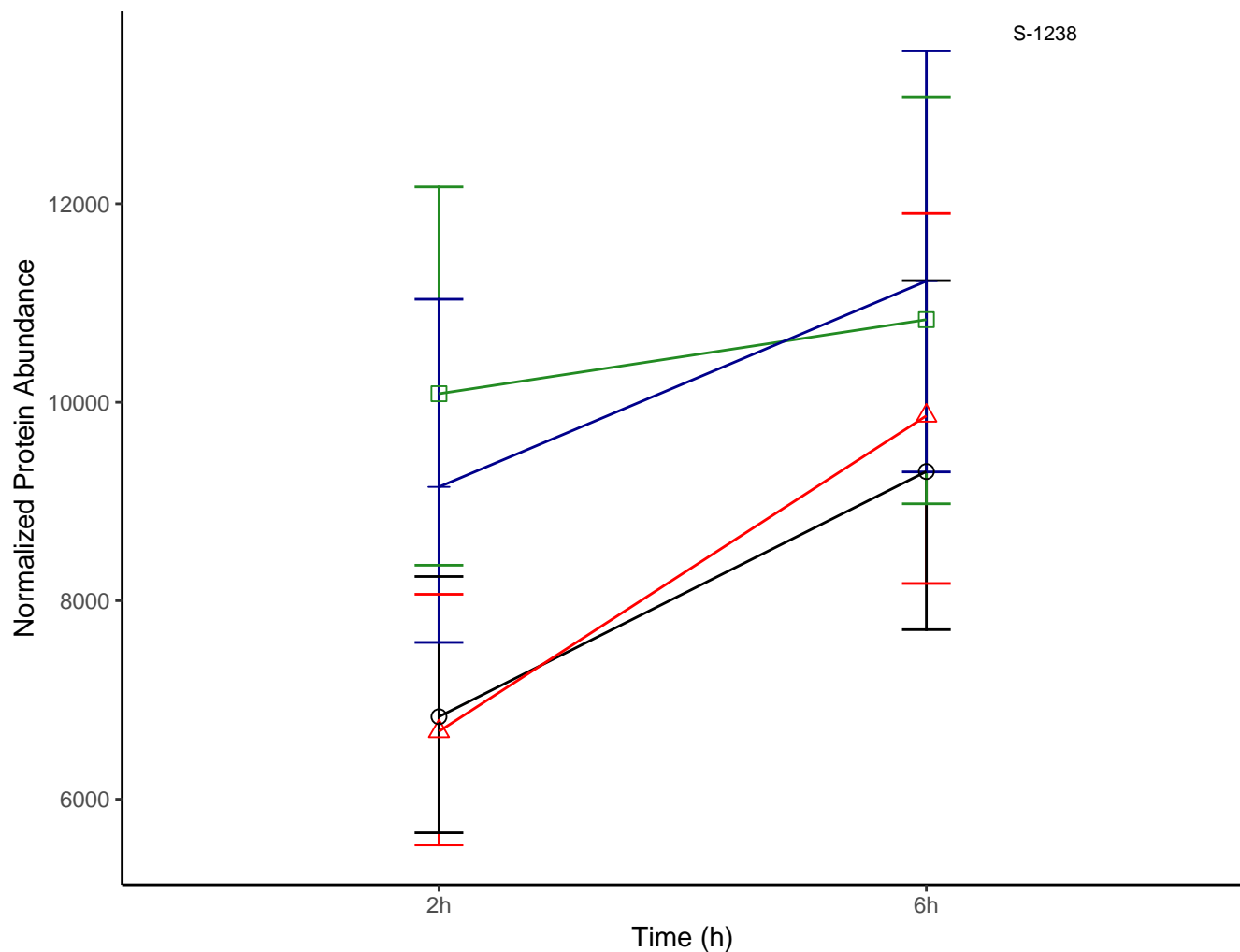
S-1237



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# ODO2\_STAAM

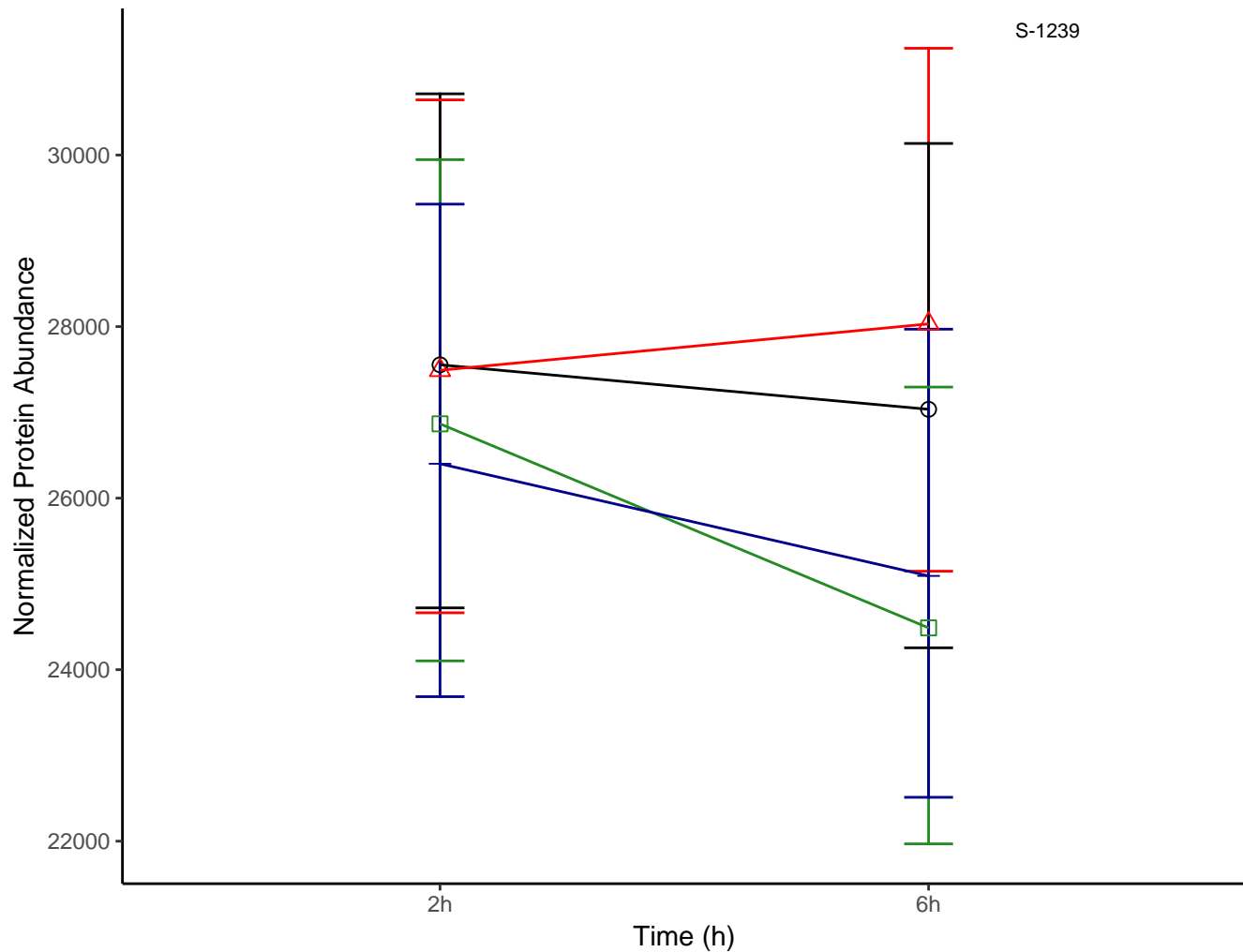
S-1238



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# ODP2\_STAAM

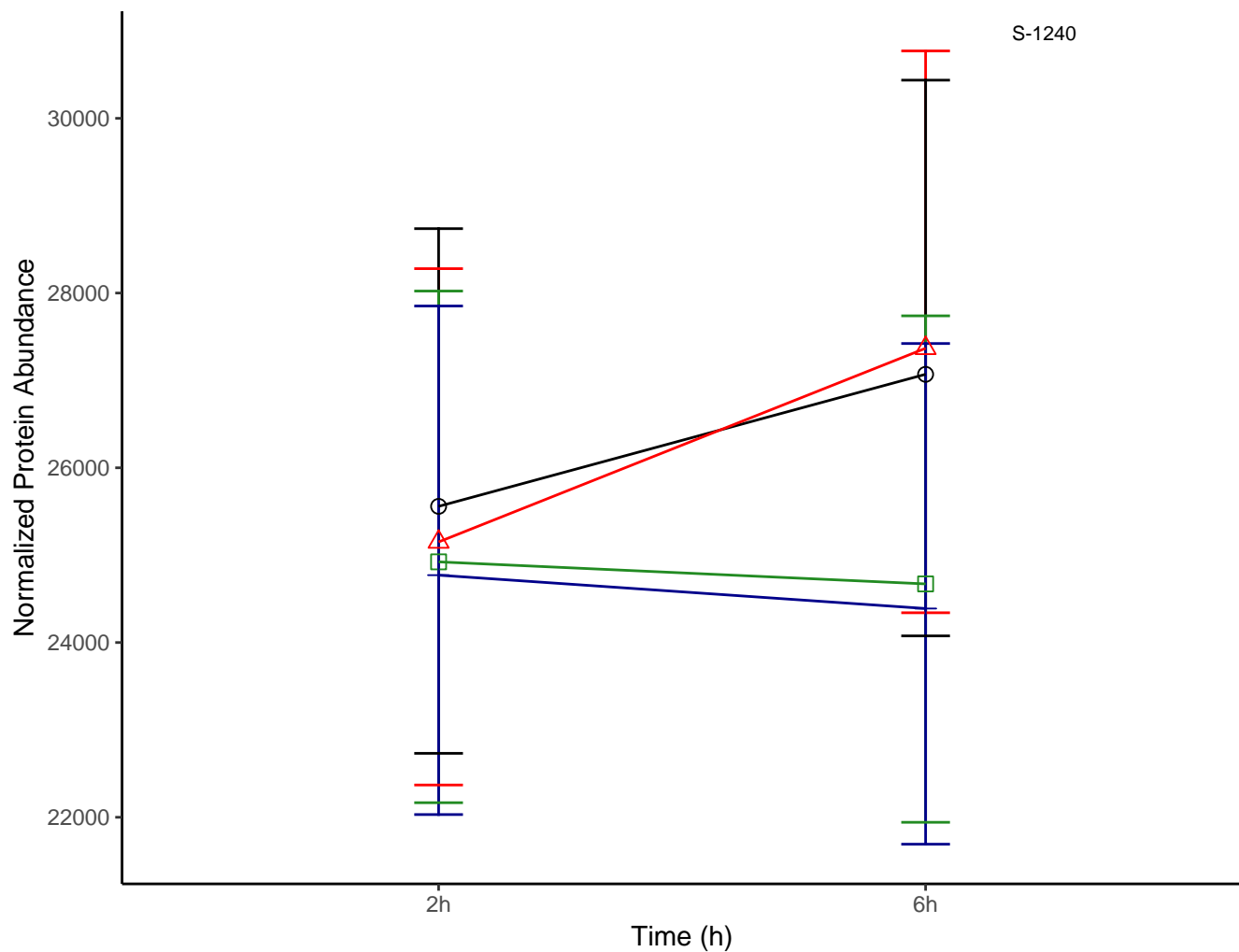
S-1239



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODPA\_STAAM

S-1240

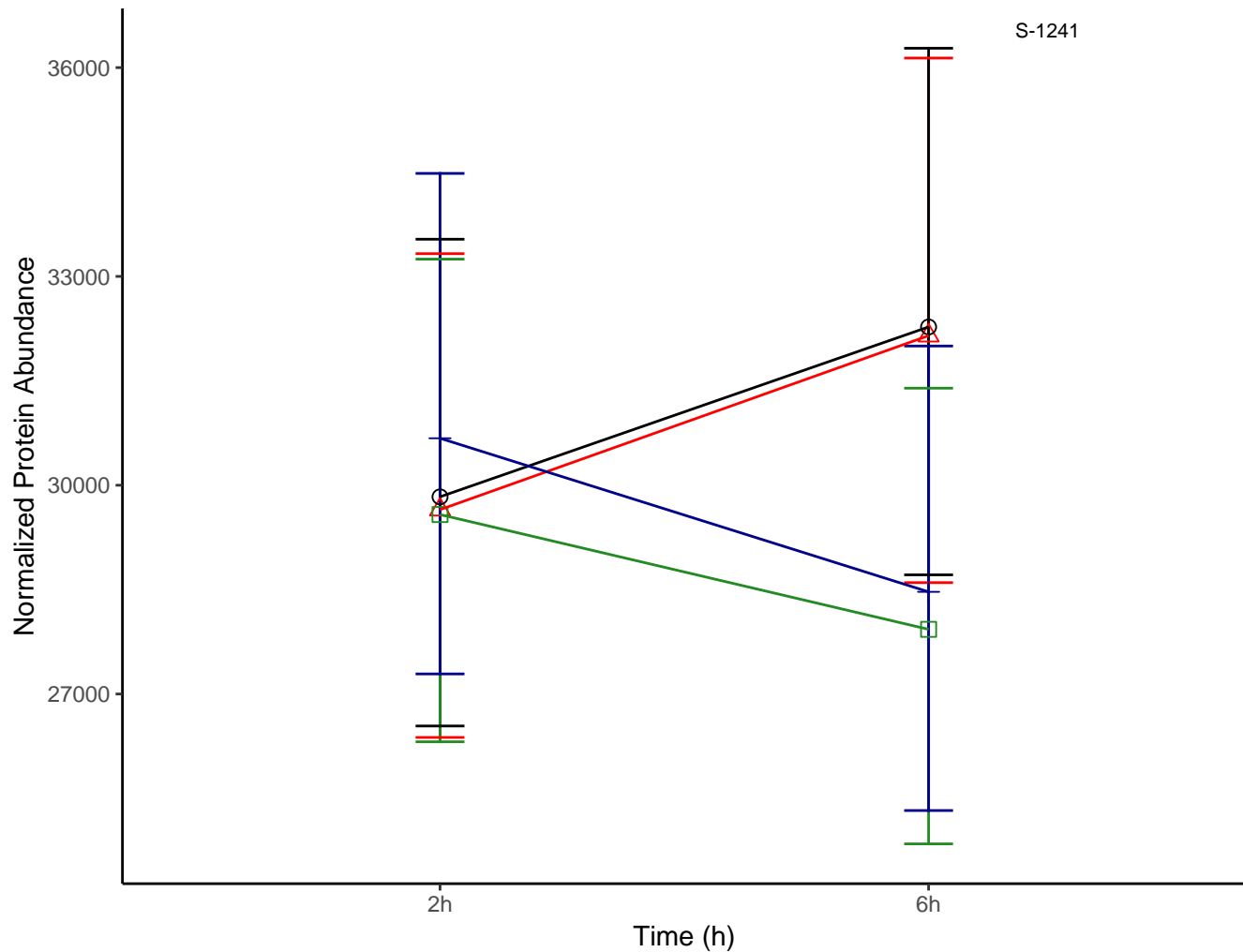


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# ODPB\_STAAM

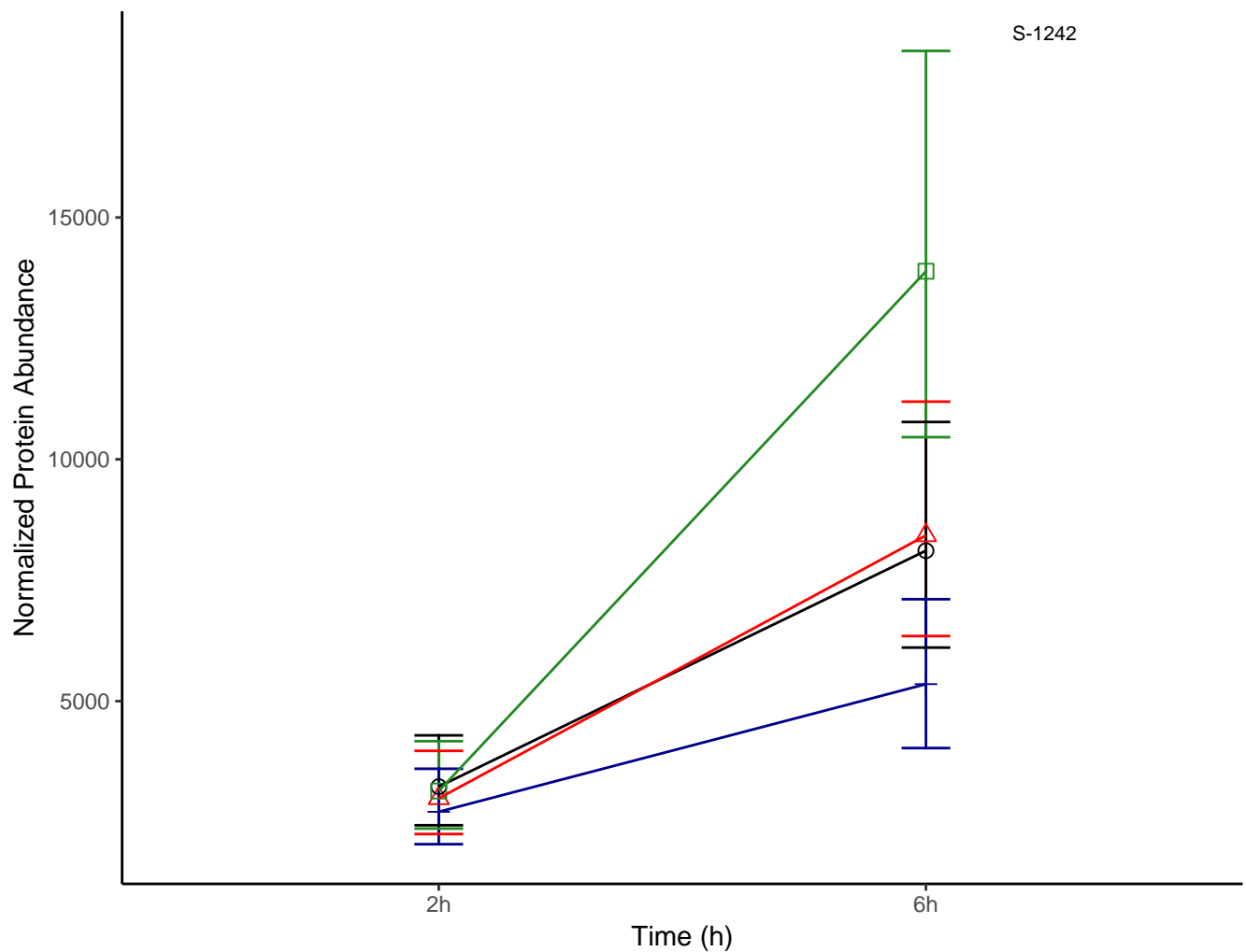
S-1241



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# OHRL\_STAAM

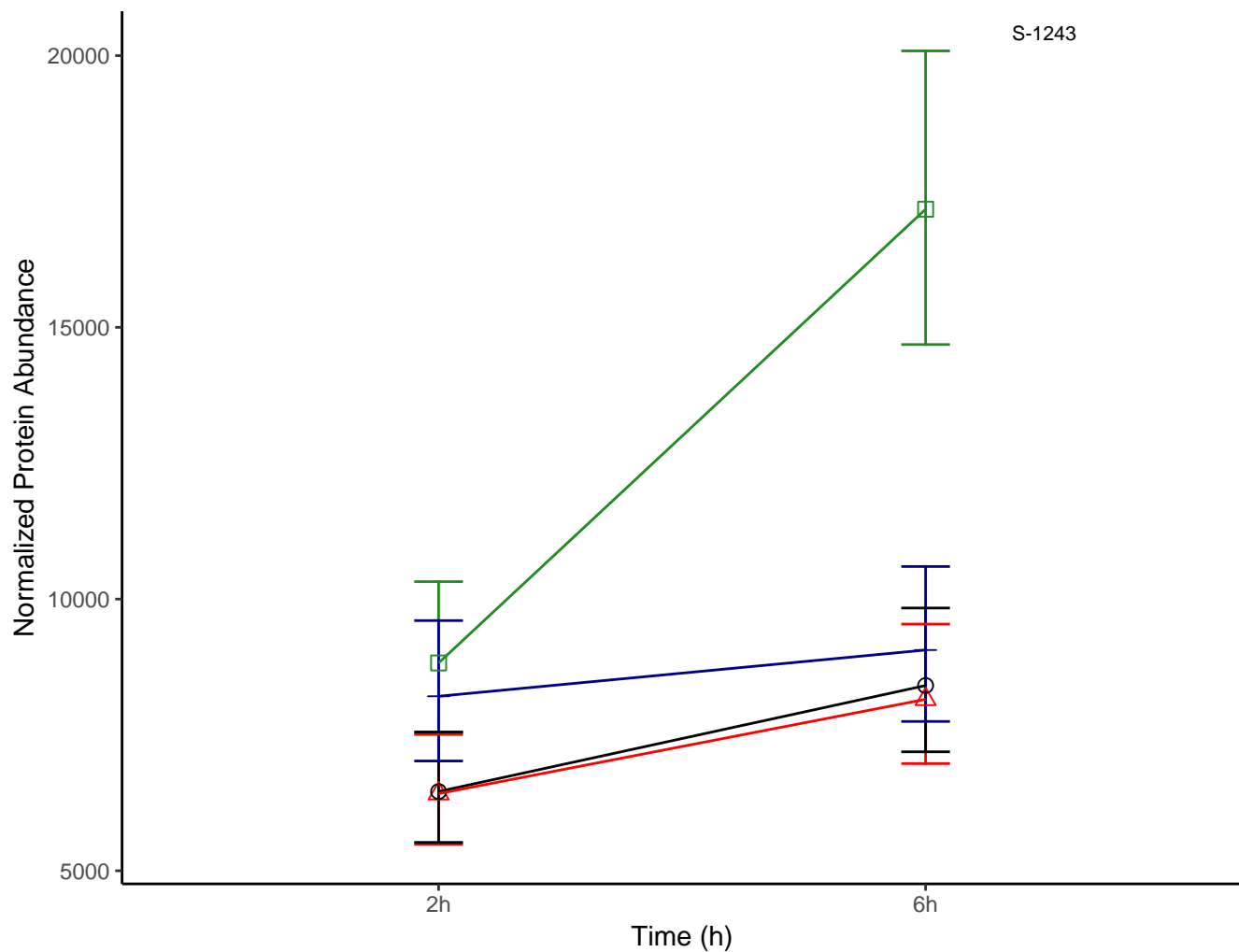
S-1242



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# OTC\_STAAM

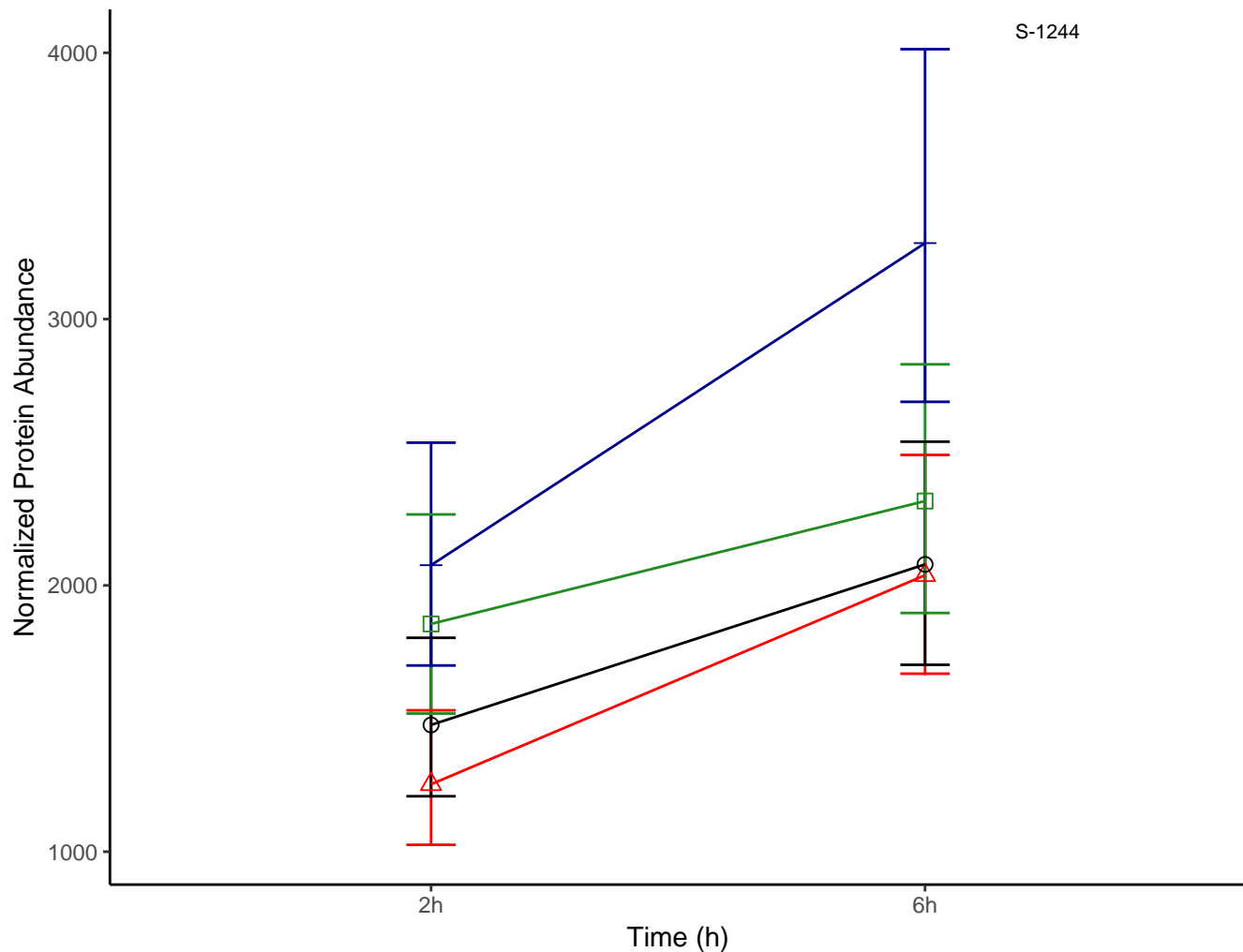
S-1243



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# OTCC\_STAAM

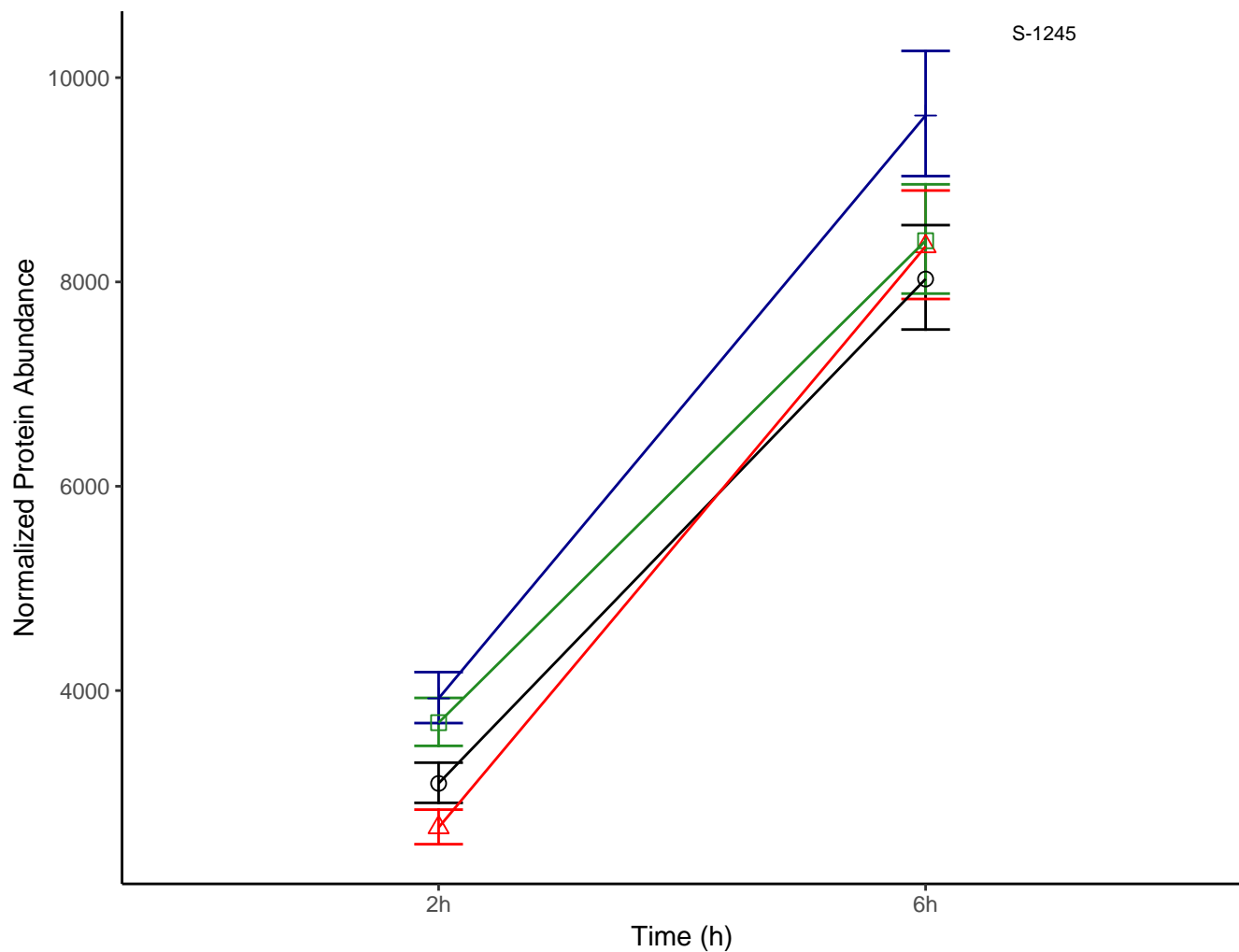
S-1244



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# P5CR\_STAAM

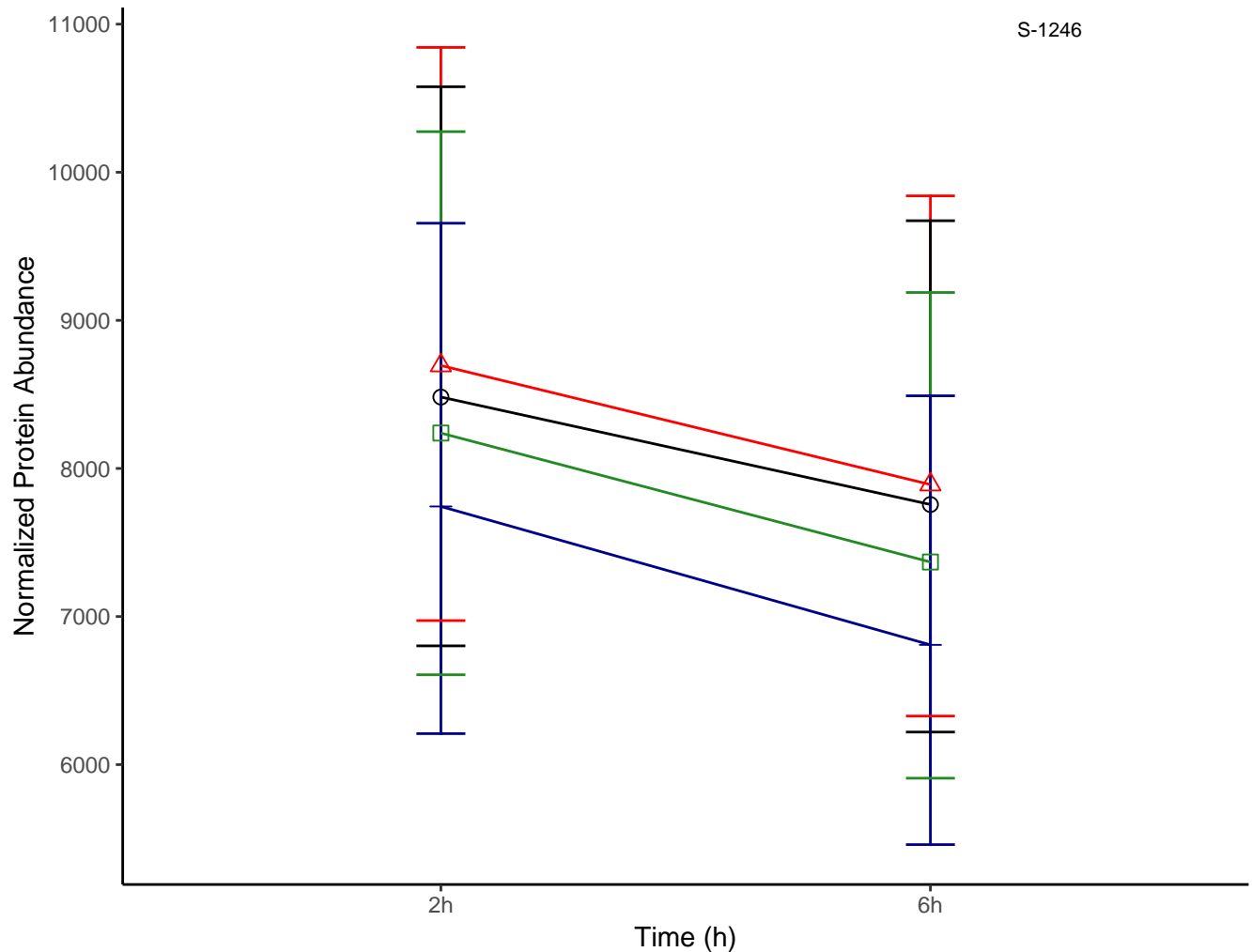
S-1245



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PANB\_STAAM

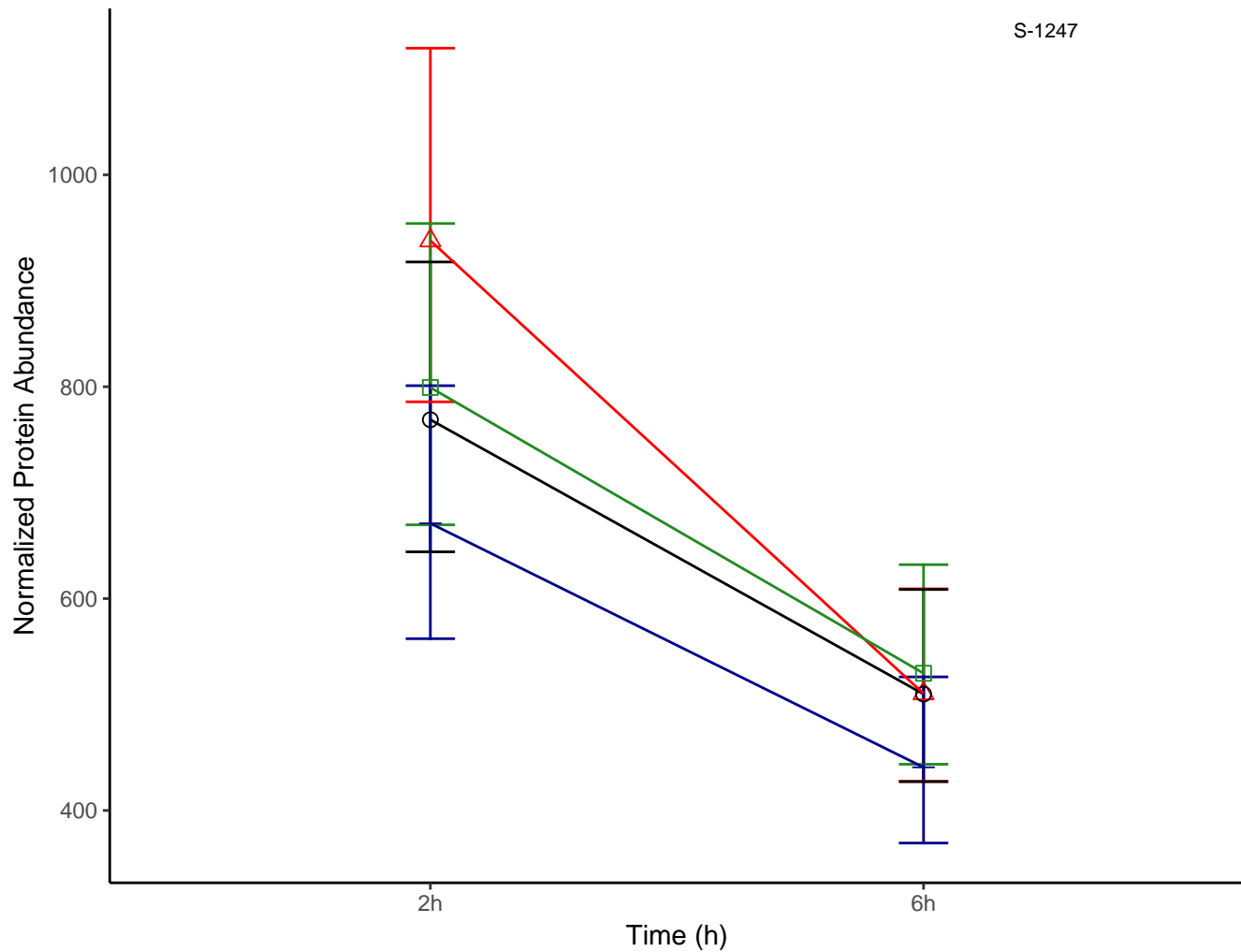
S-1246



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PAND\_STAAM

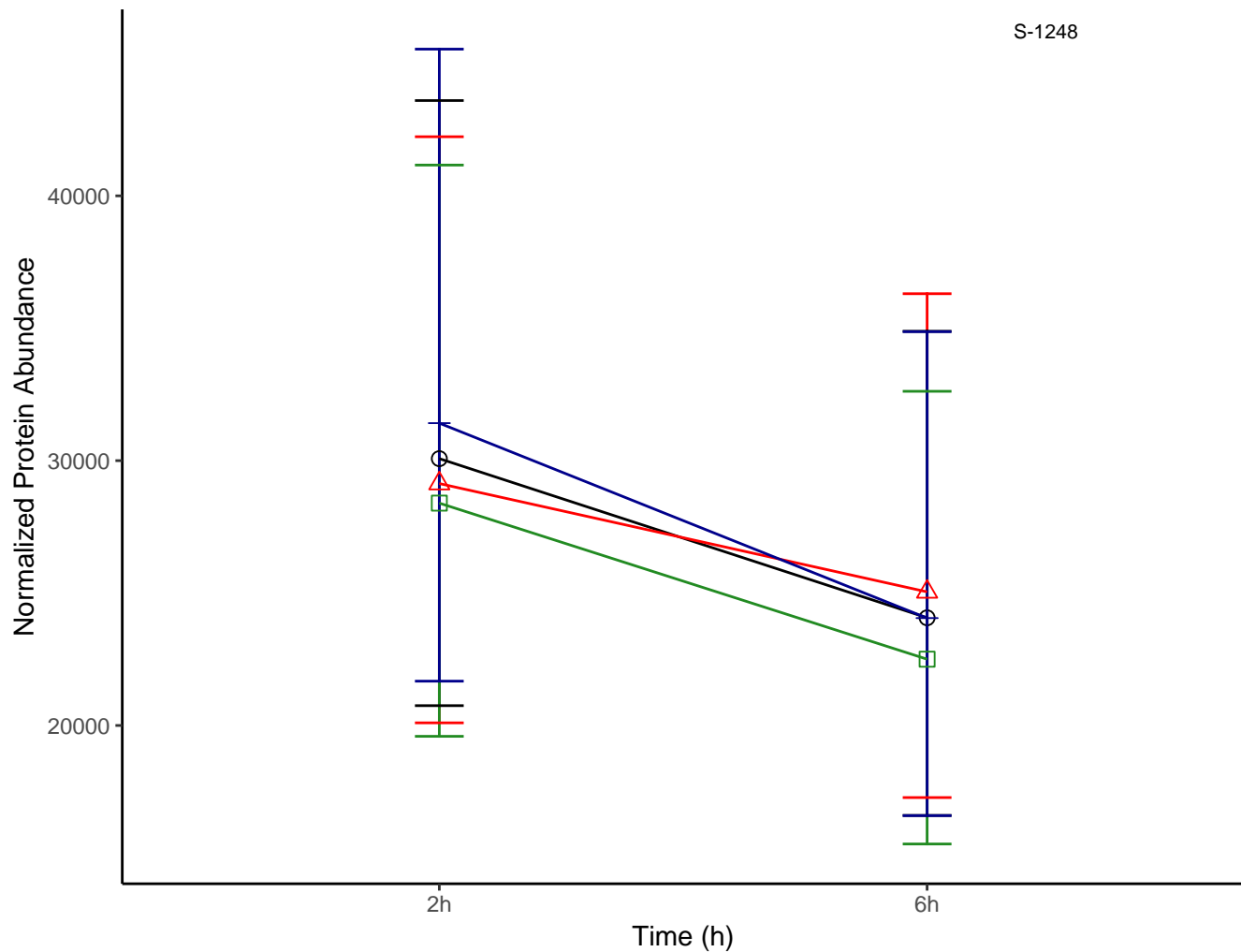
S-1247



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PARC\_STAAM

S-1248

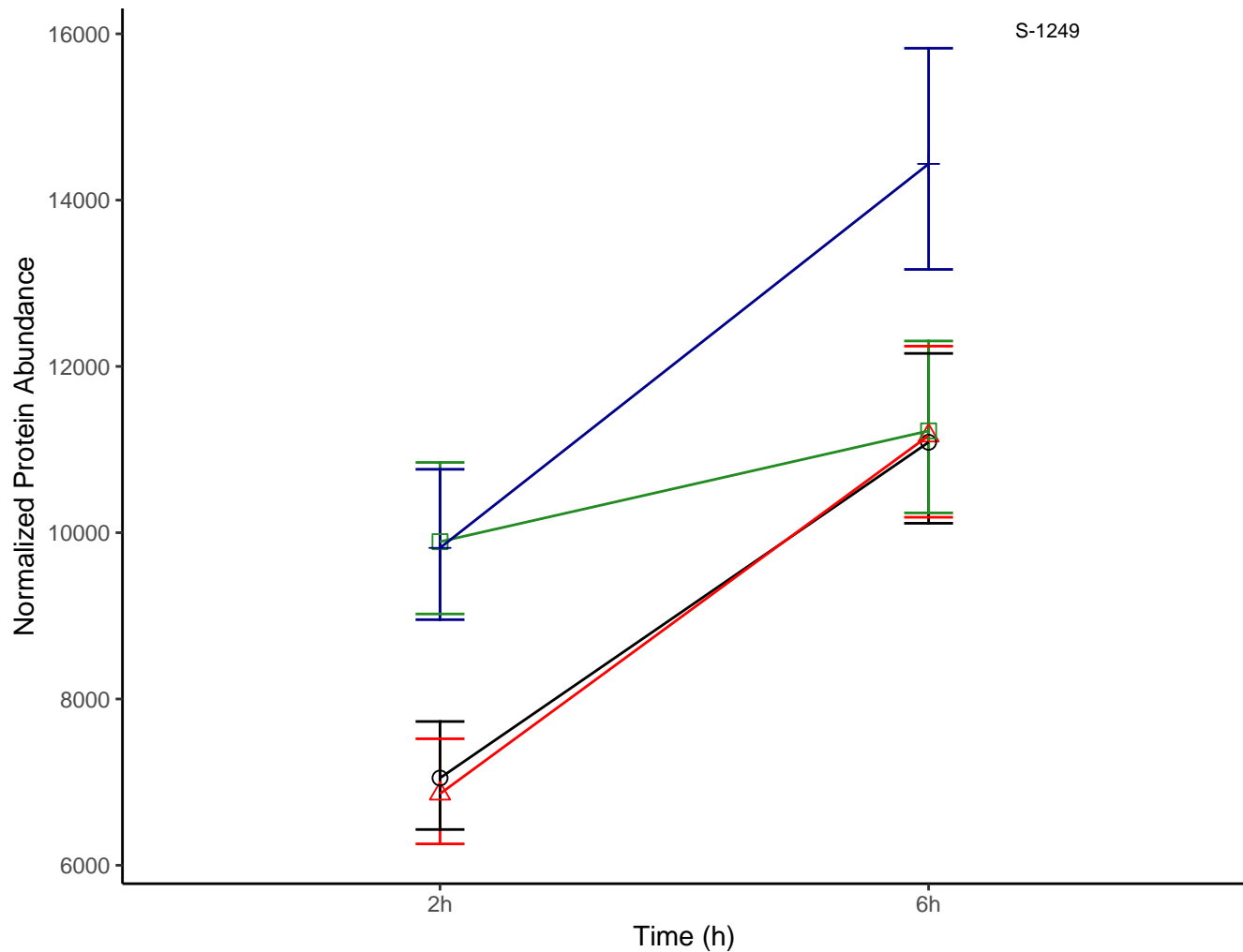


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# PCKA\_STAAM

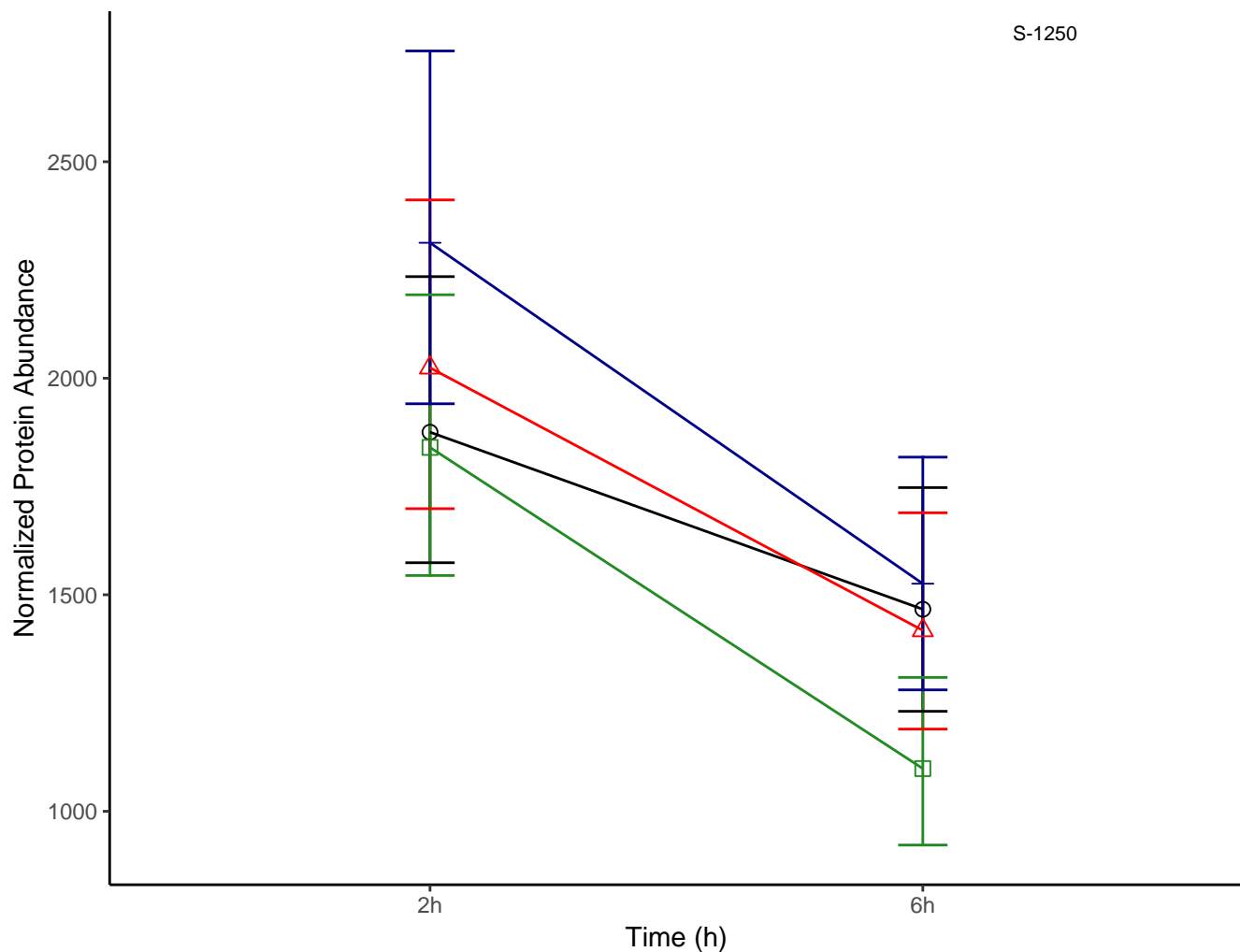
S-1249



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PCRA\_STAAM

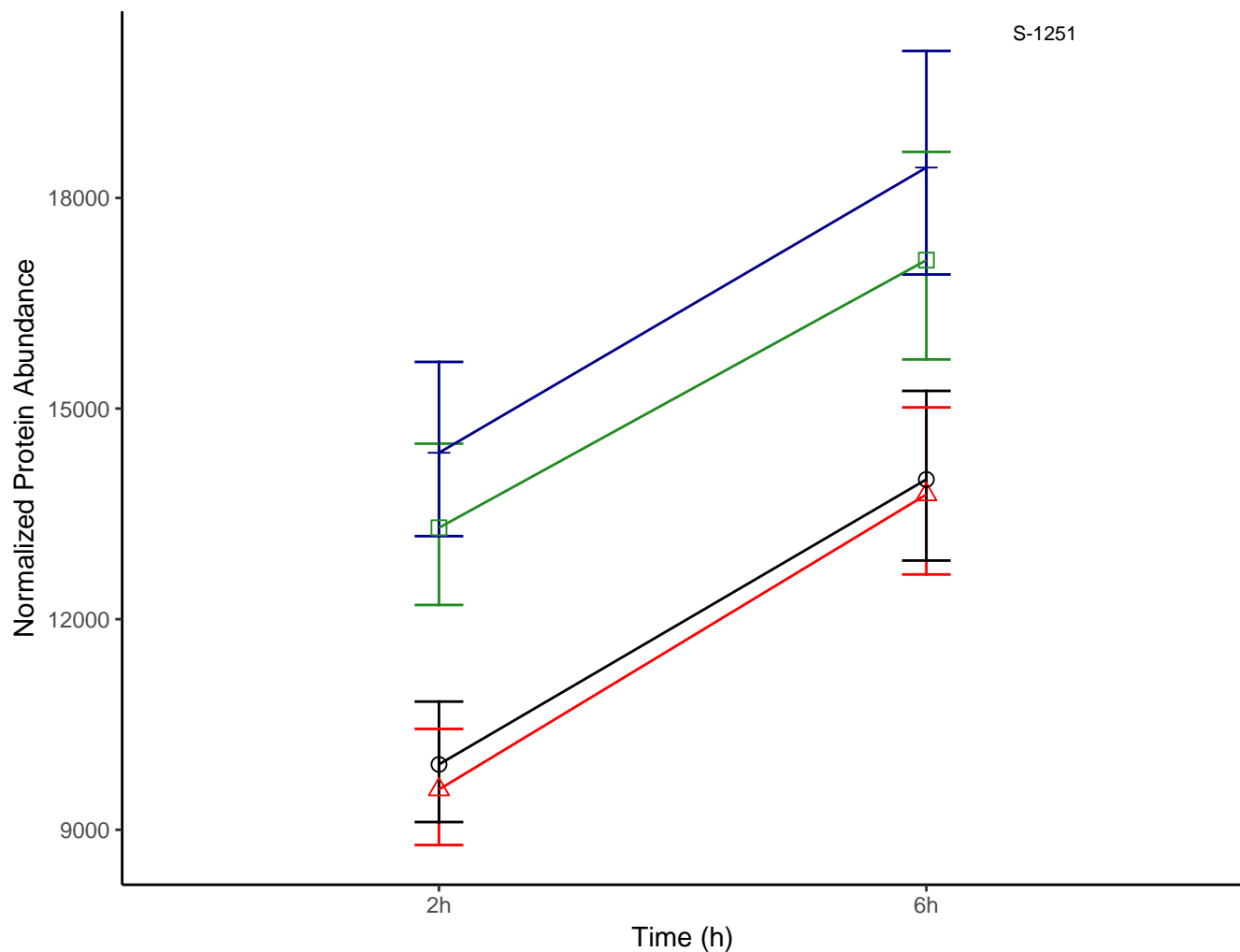
S-1250



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PDP\_STAAM

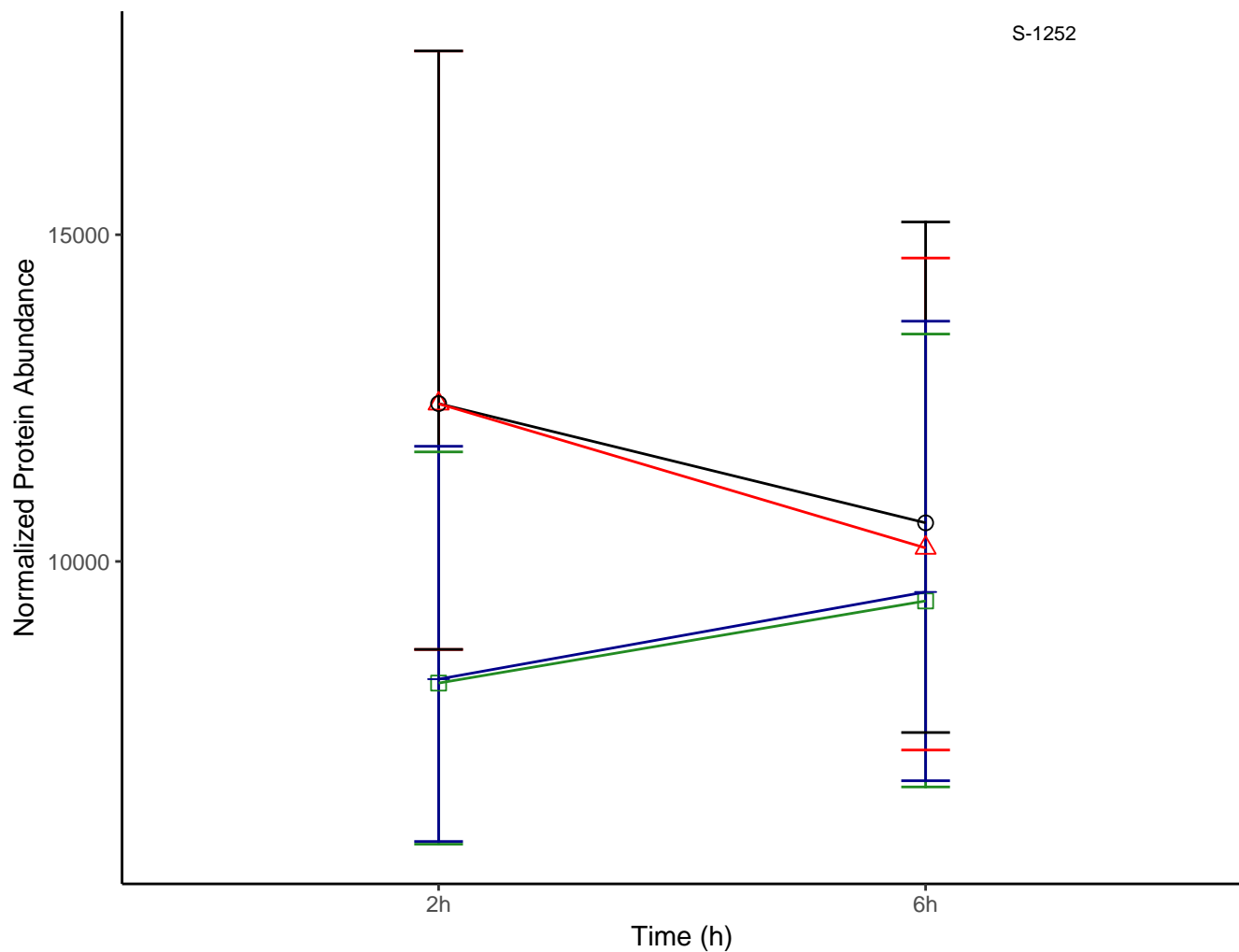
S-1251



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PDRP\_STAAM

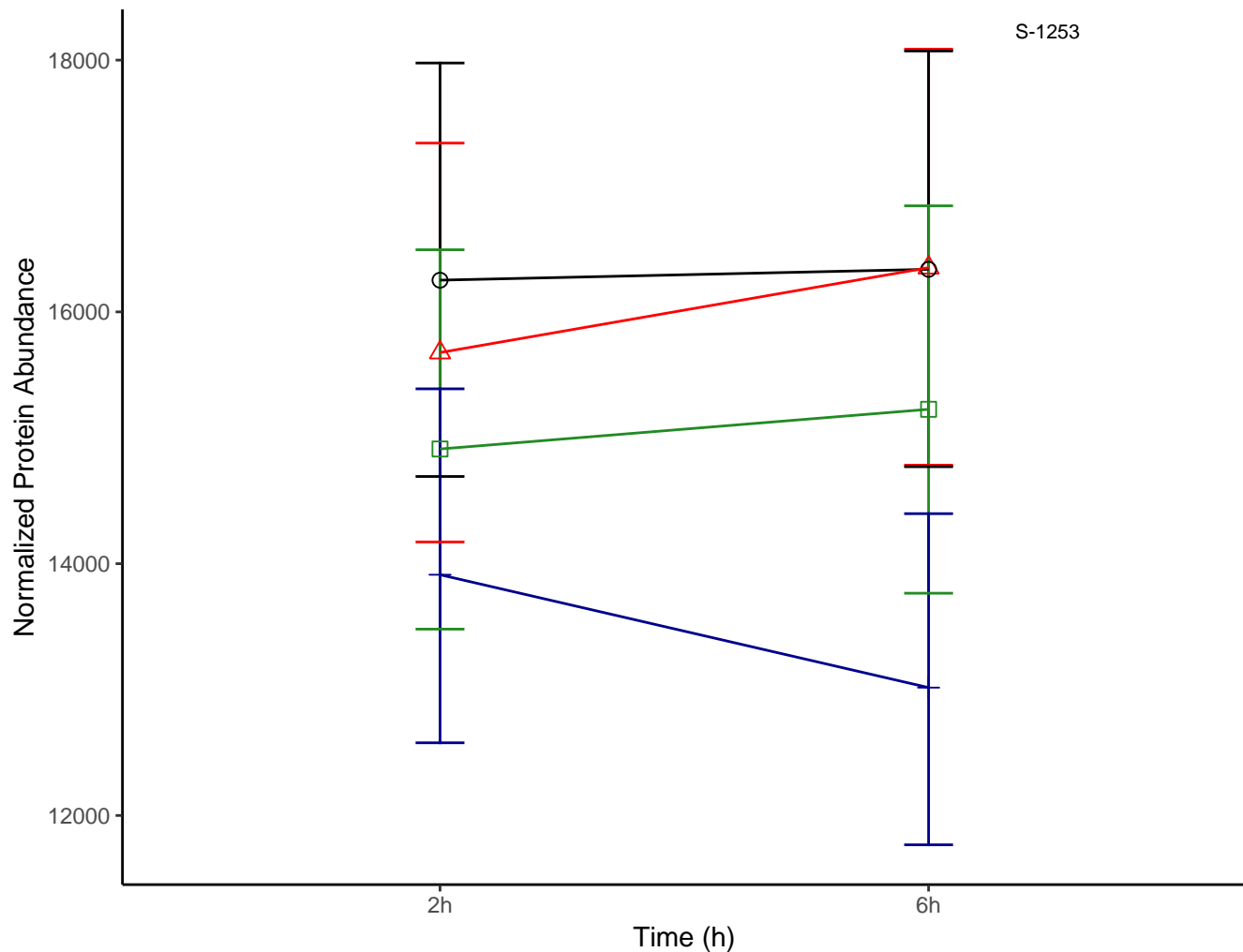
S-1252



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PDXS\_STAAM

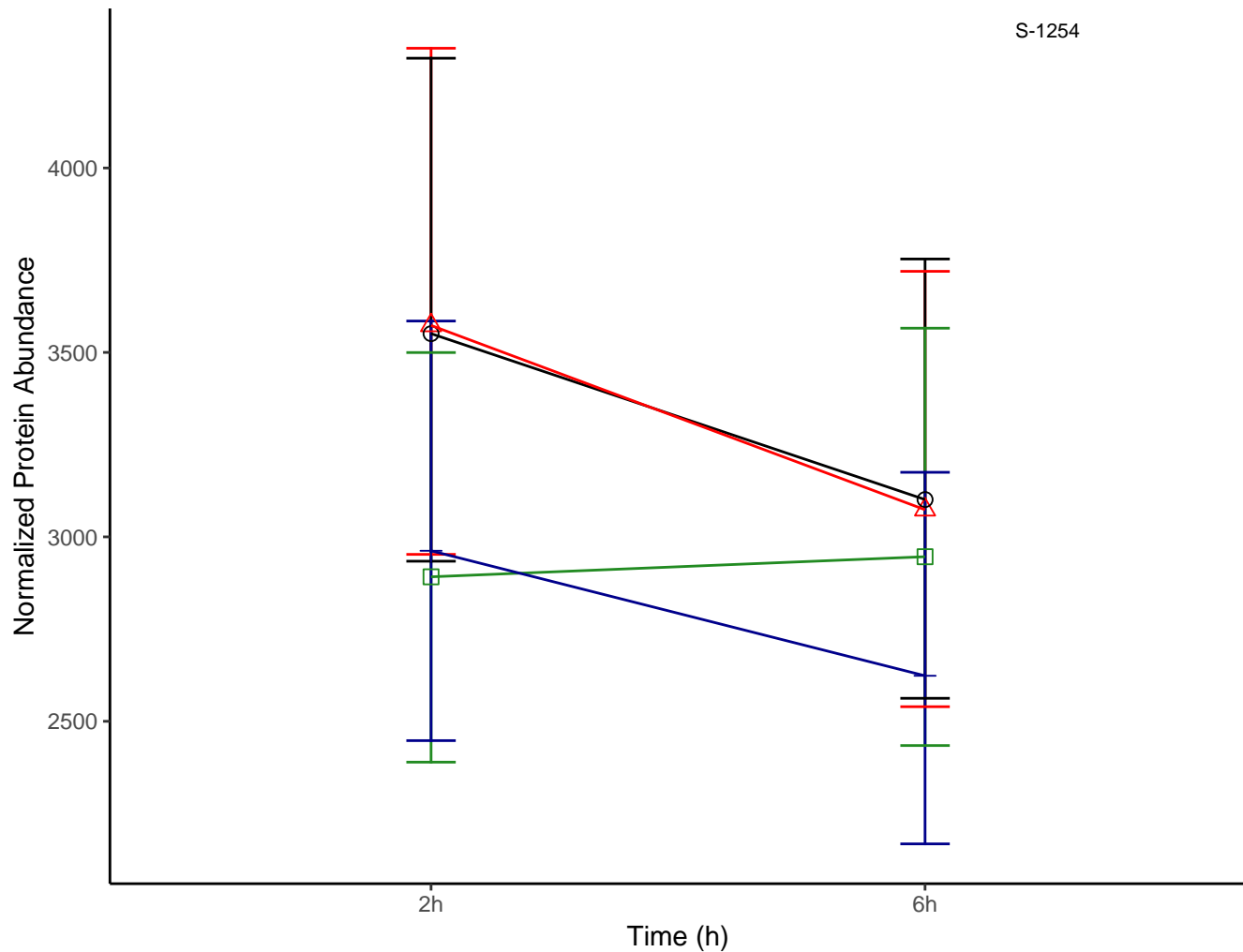
S-1253



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

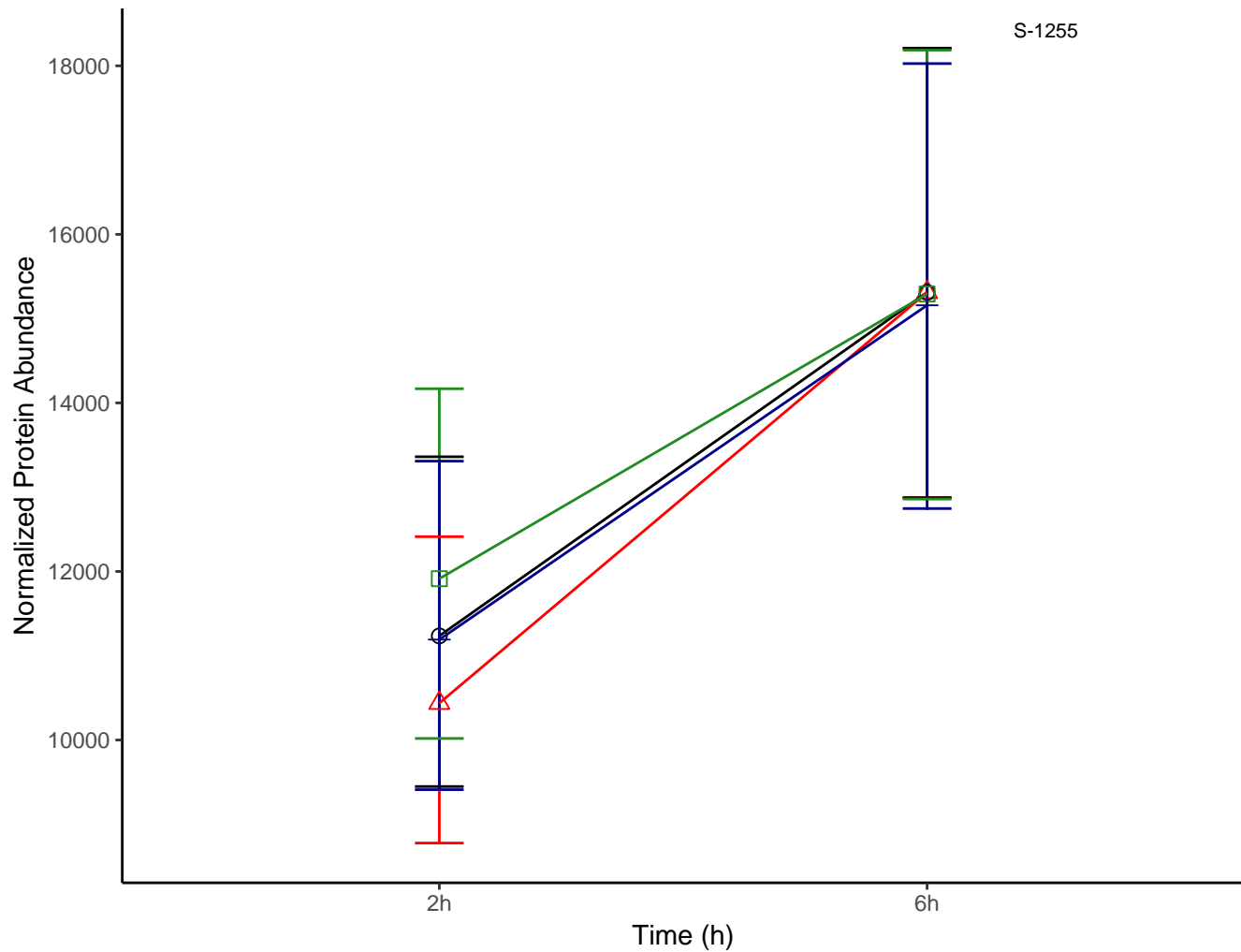
# PDXT\_STAAM

S-1254



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

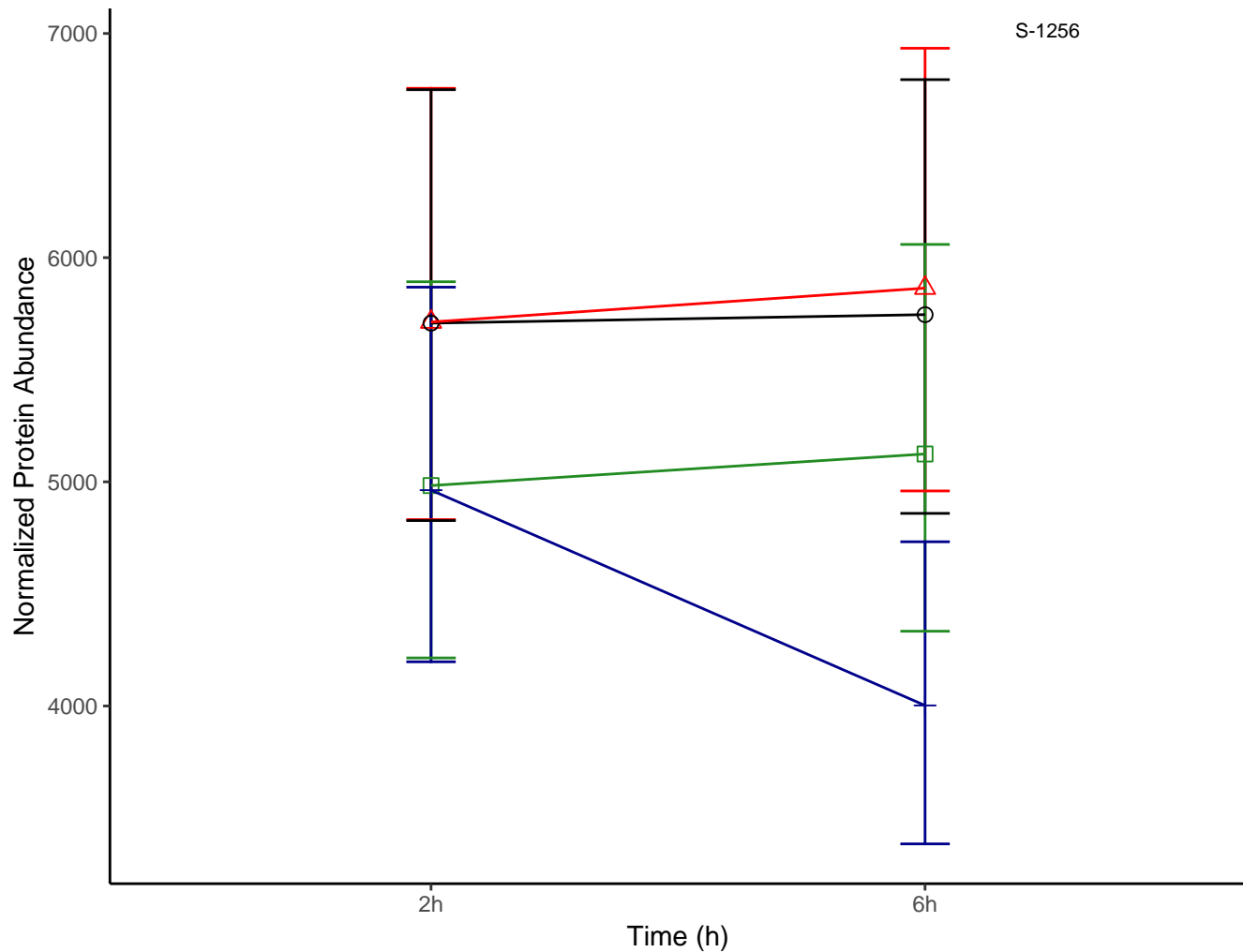
# PEPVL\_STAAM



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PERR\_STAAM

S-1256

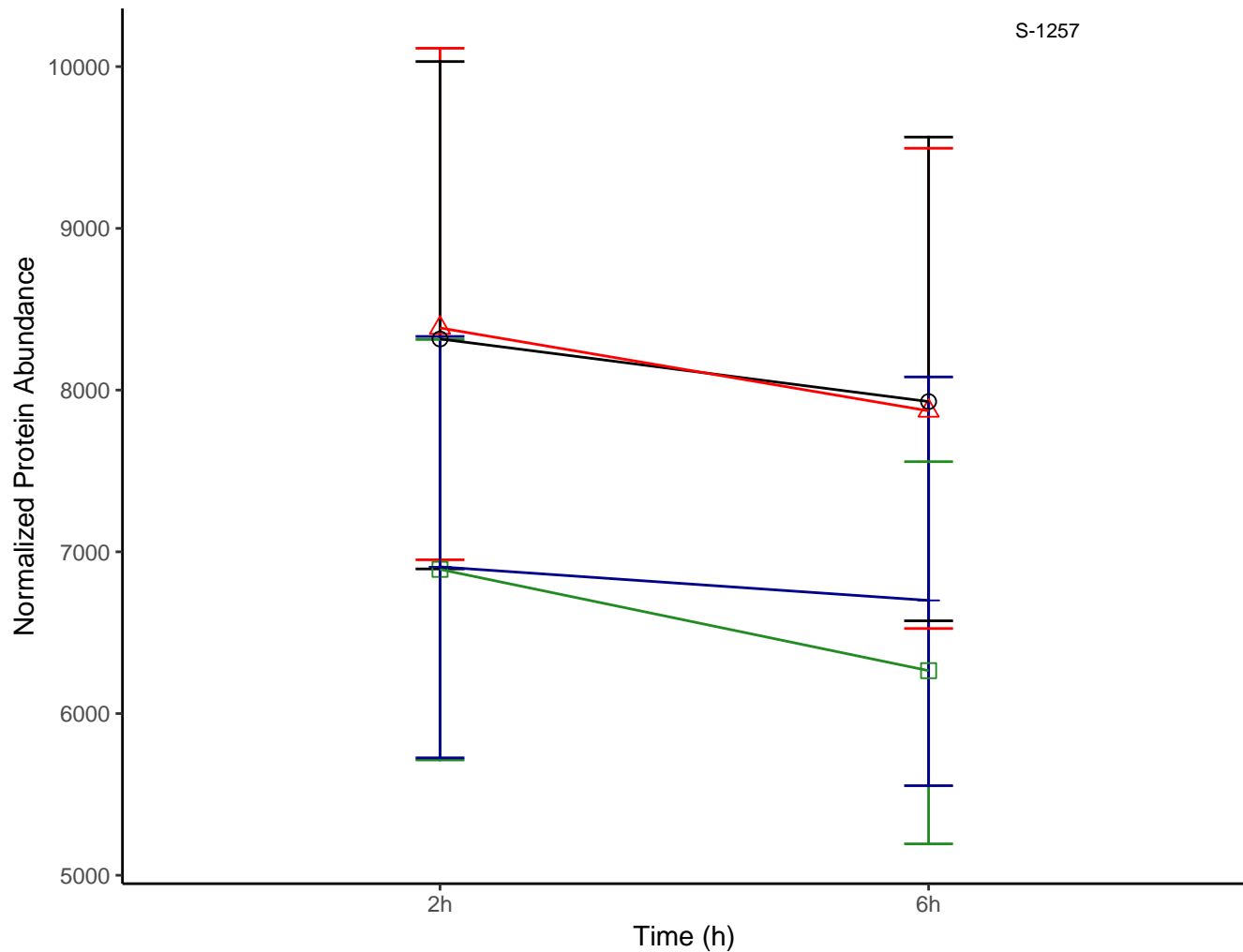


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PFKA\_STAAM

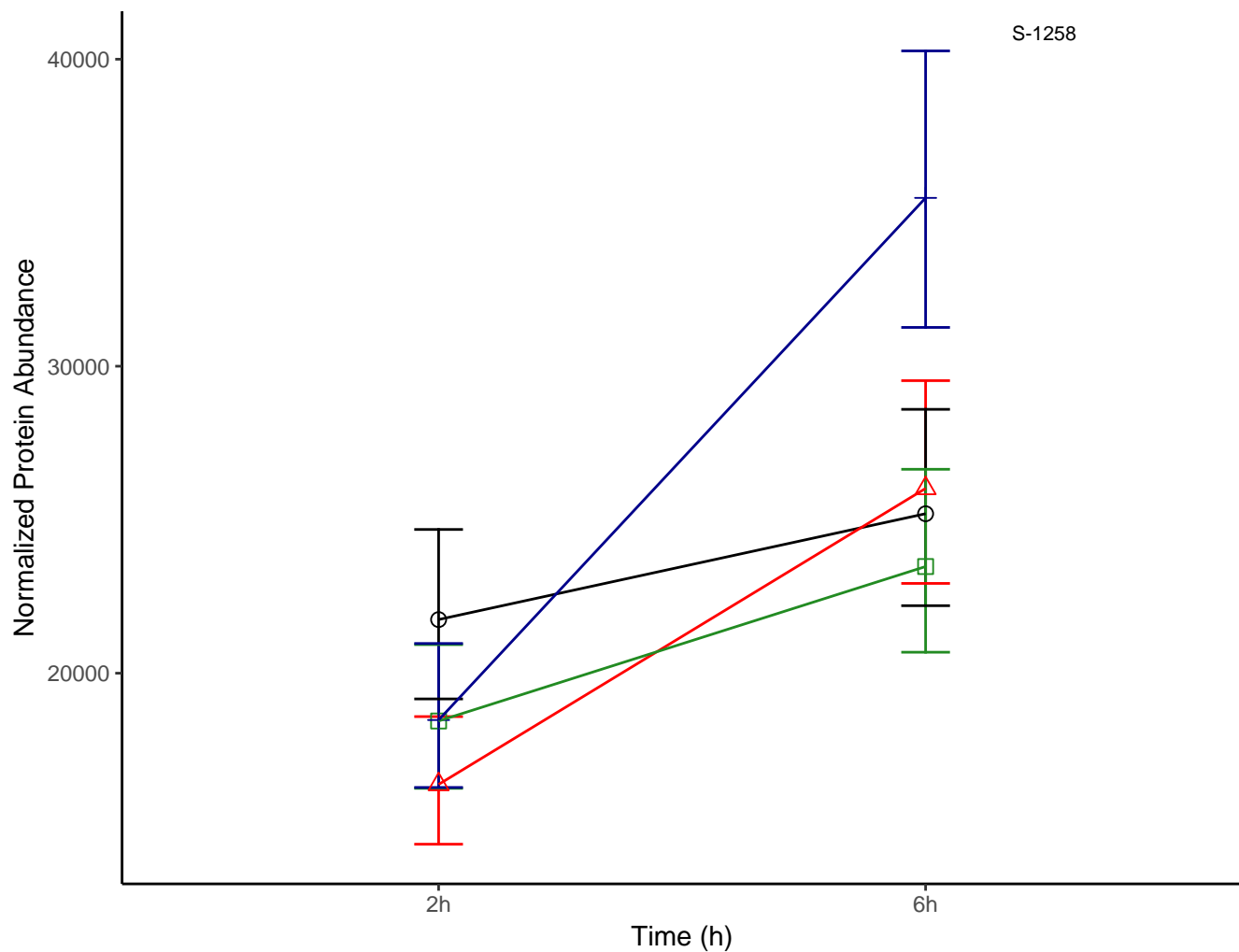
S-1257



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PFLA\_STAAM

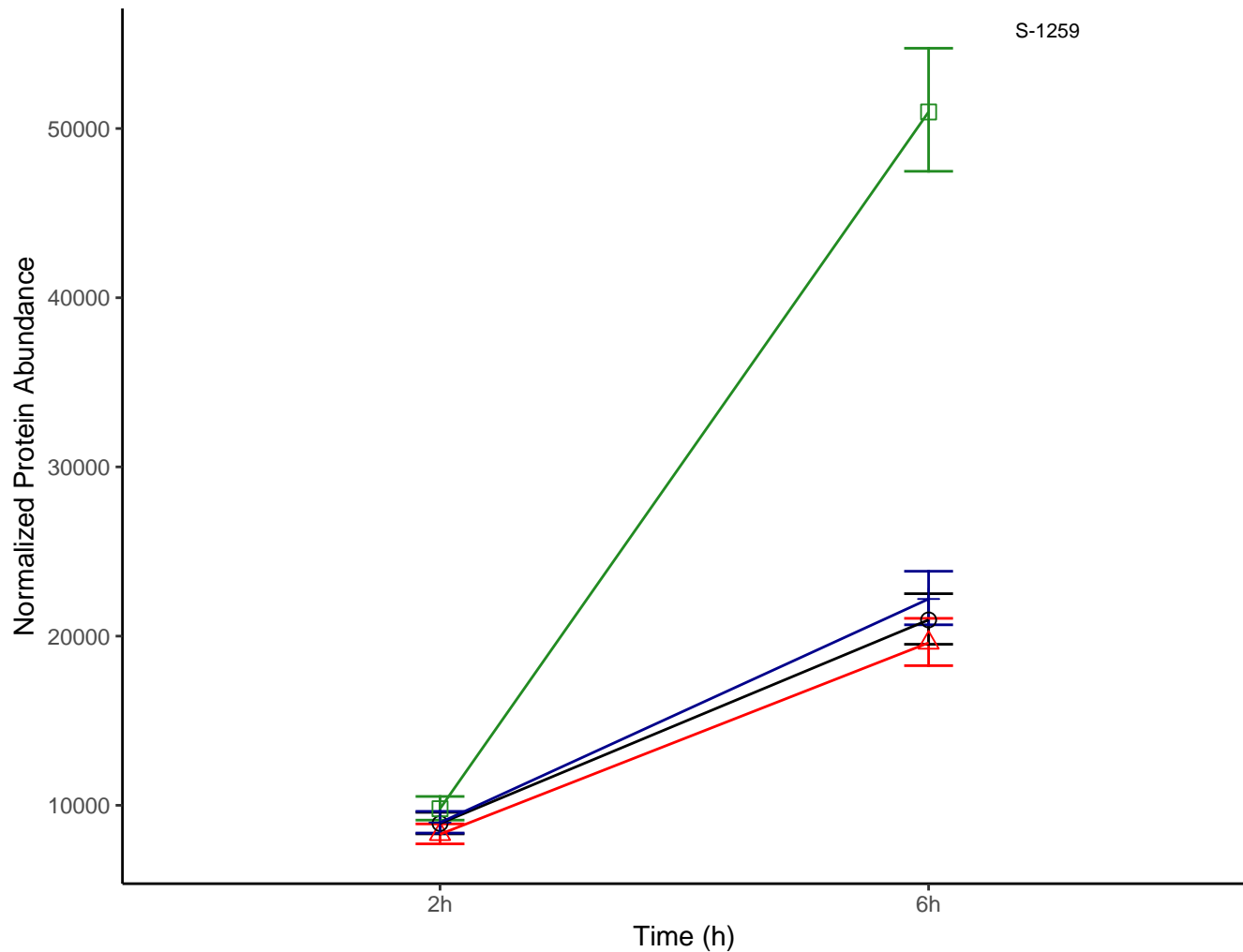
S-1258



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PFLB\_STAAM

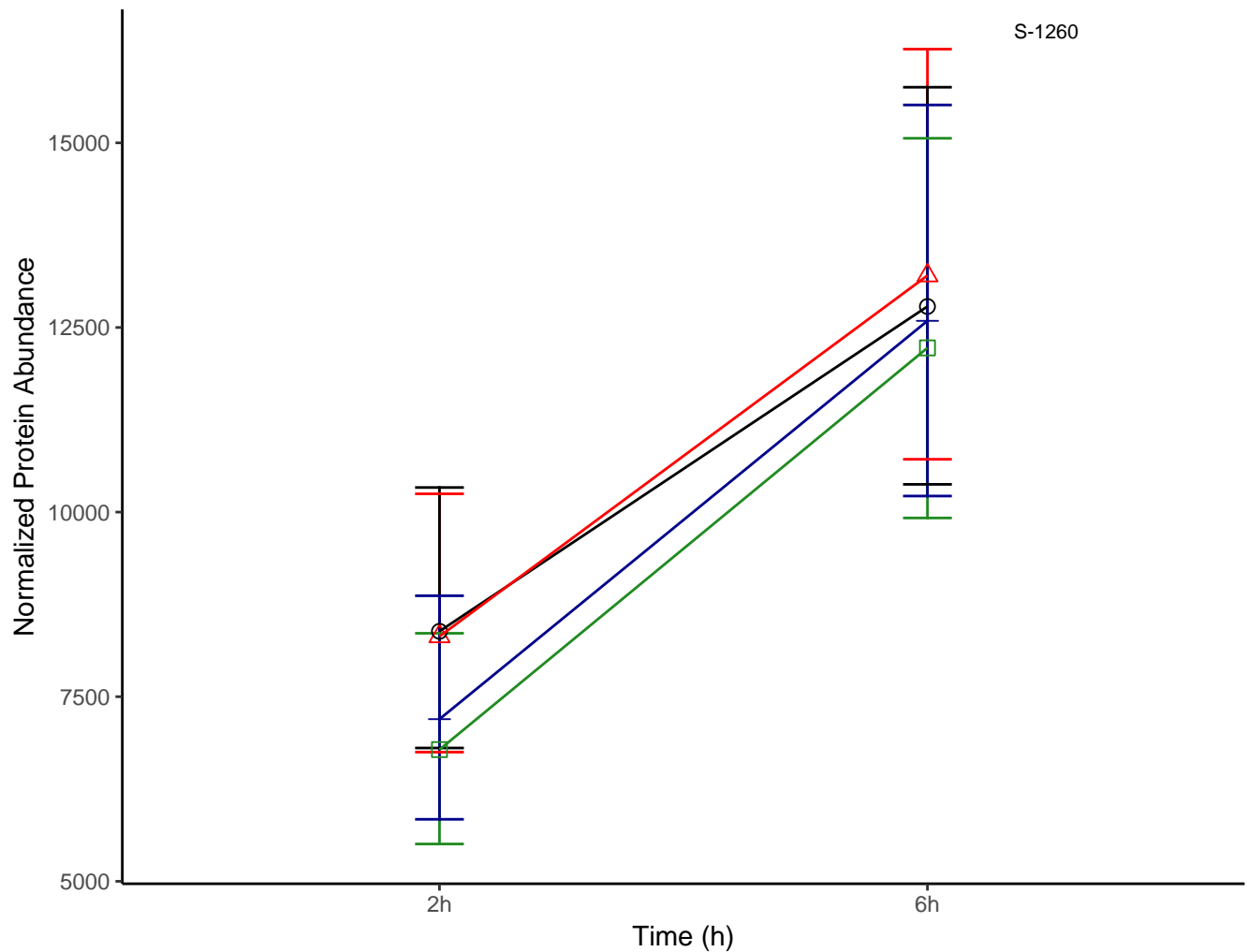
S-1259



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PGCA\_STAAM

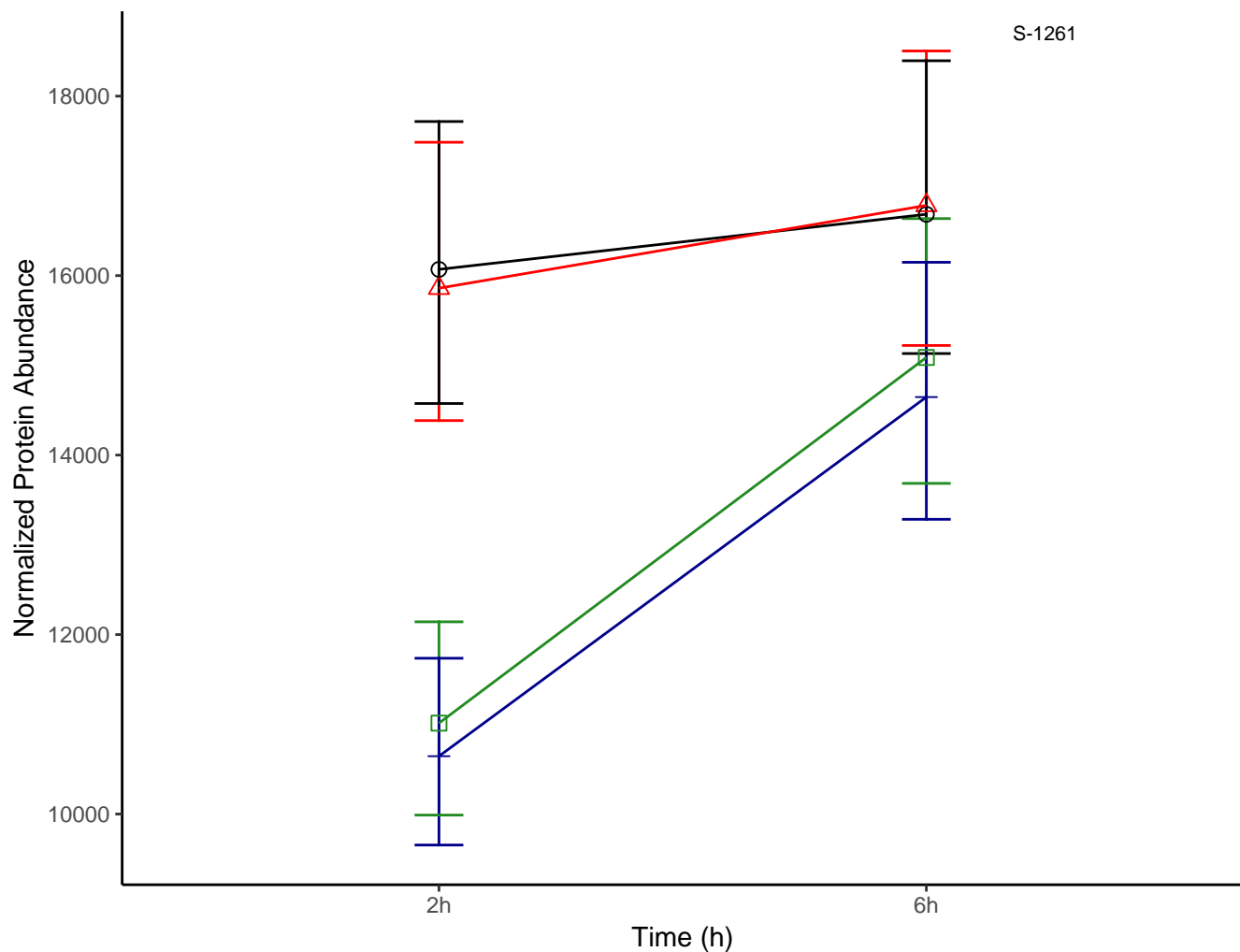
S-1260



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PGK\_STAAM

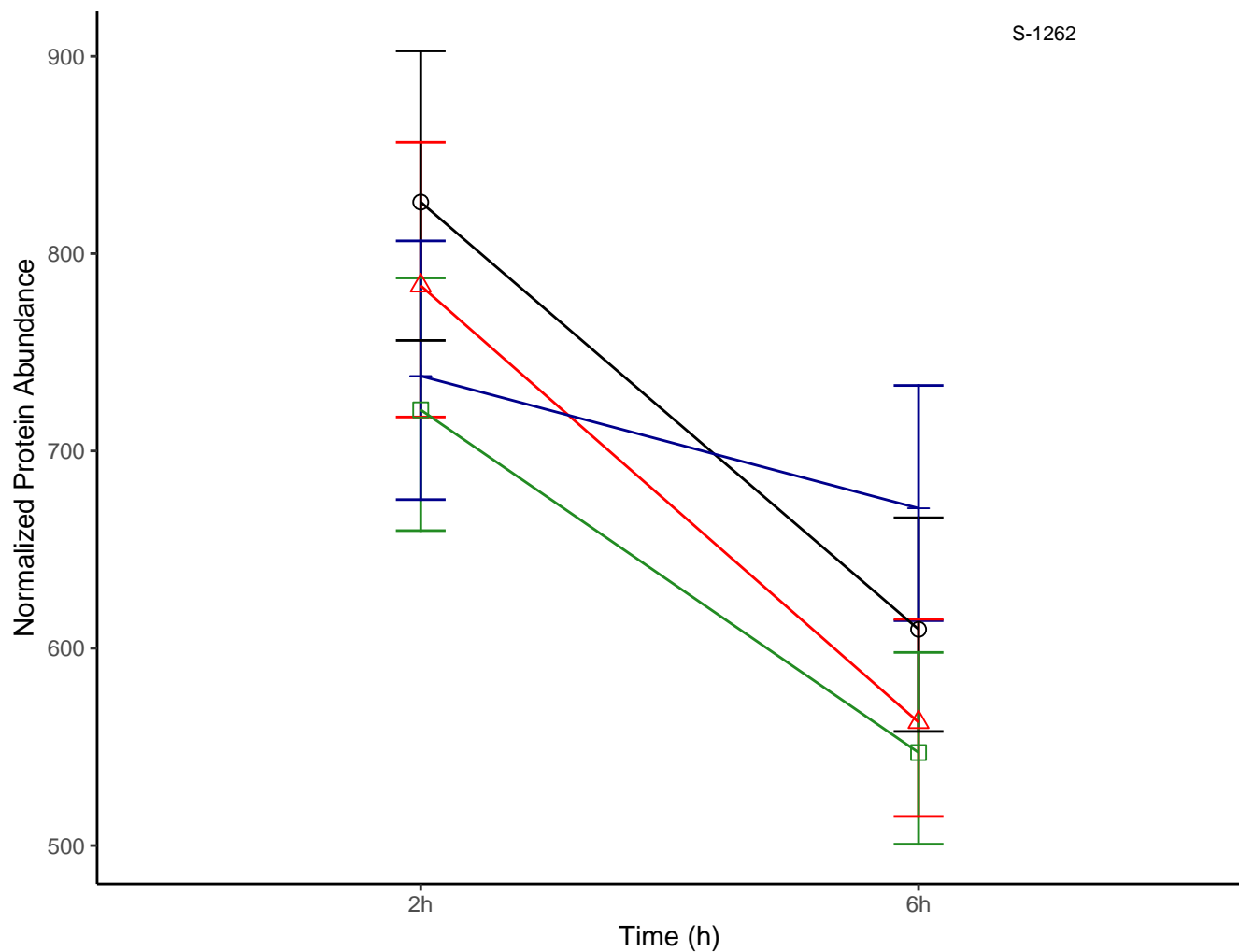
S-1261



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PHNC\_STAAM

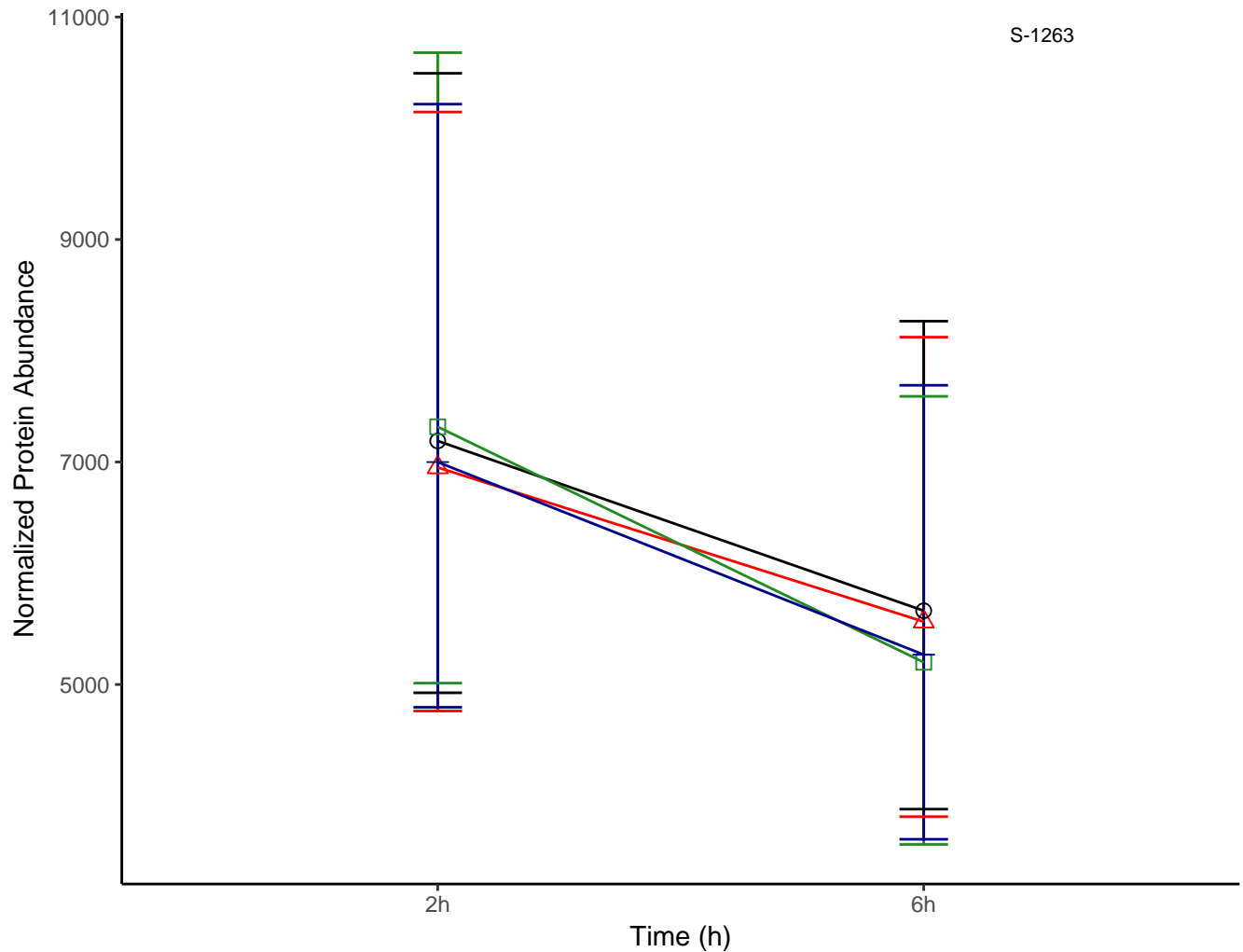
S-1262



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PLSX\_STAAM

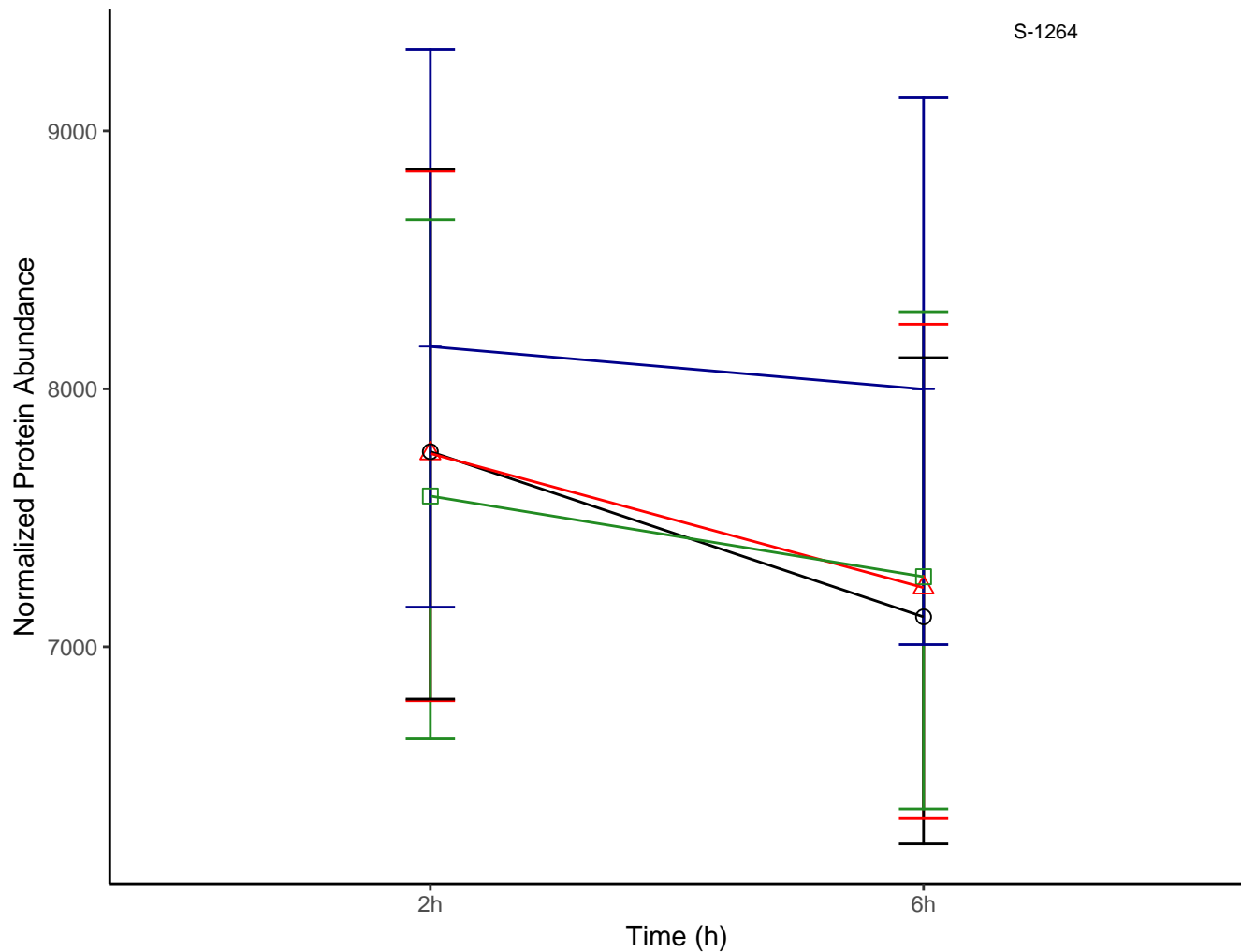
S-1263



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PNP\_STAAM

S-1264

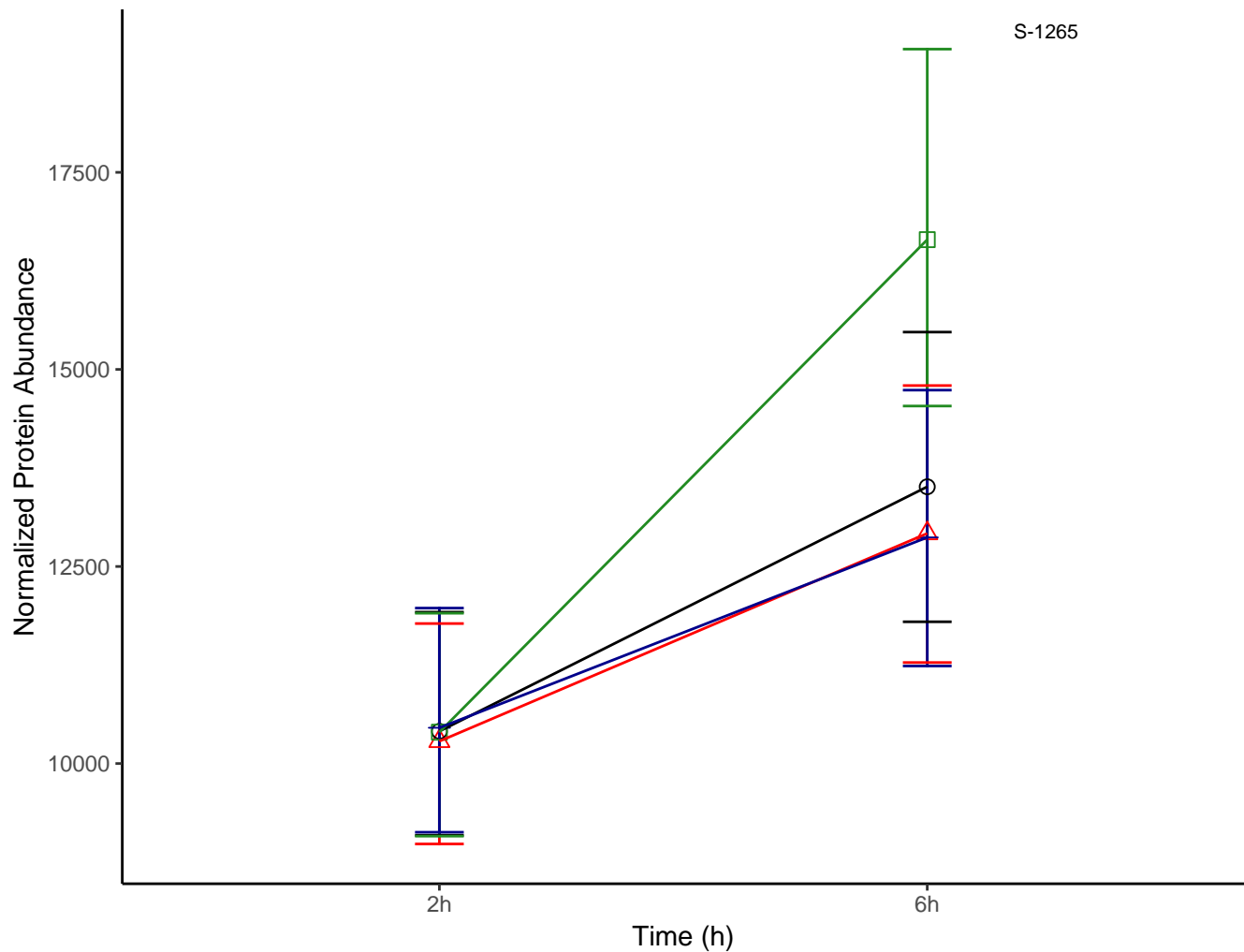


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# PPAC\_STAAM

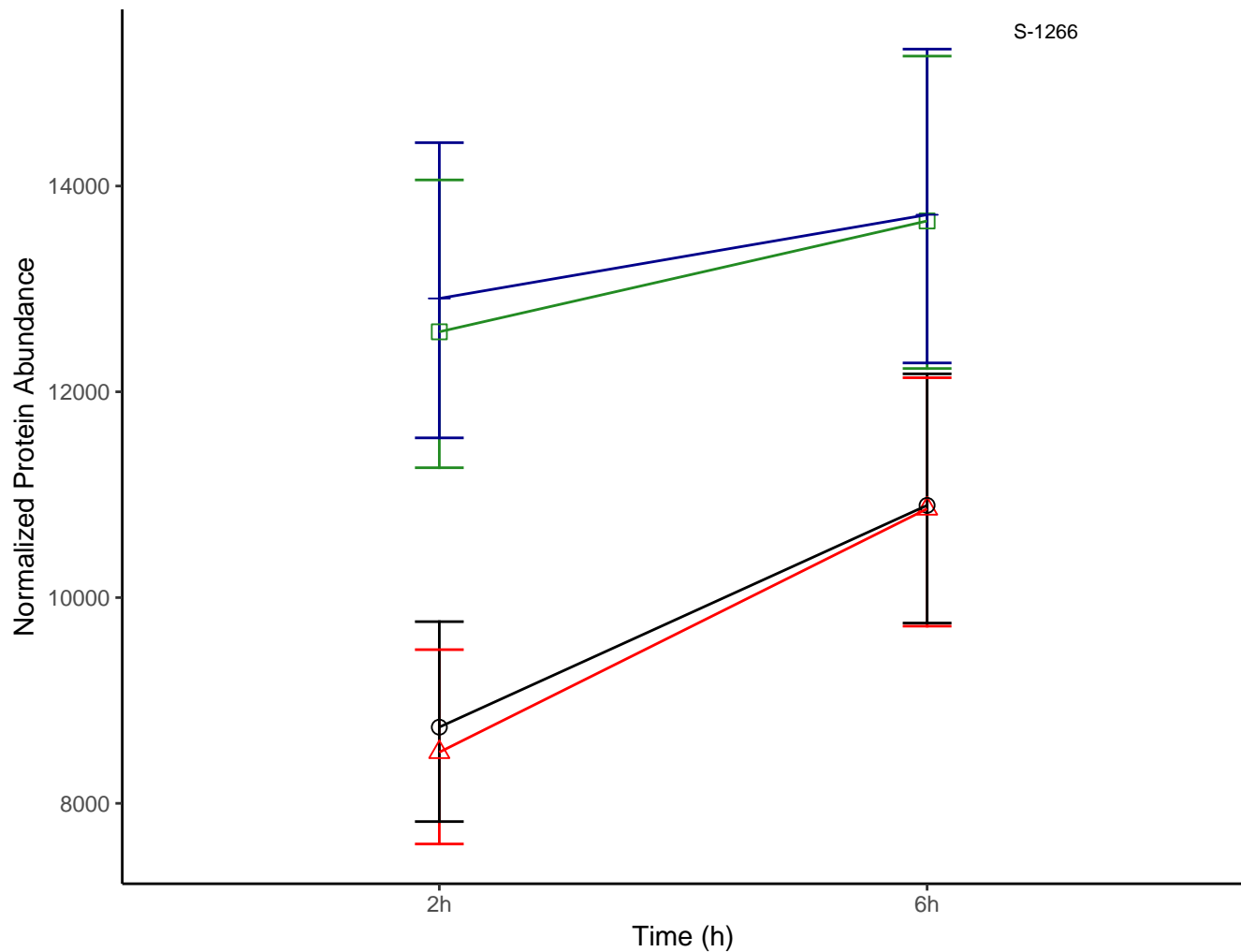
S-1265



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PPAT\_STAAM

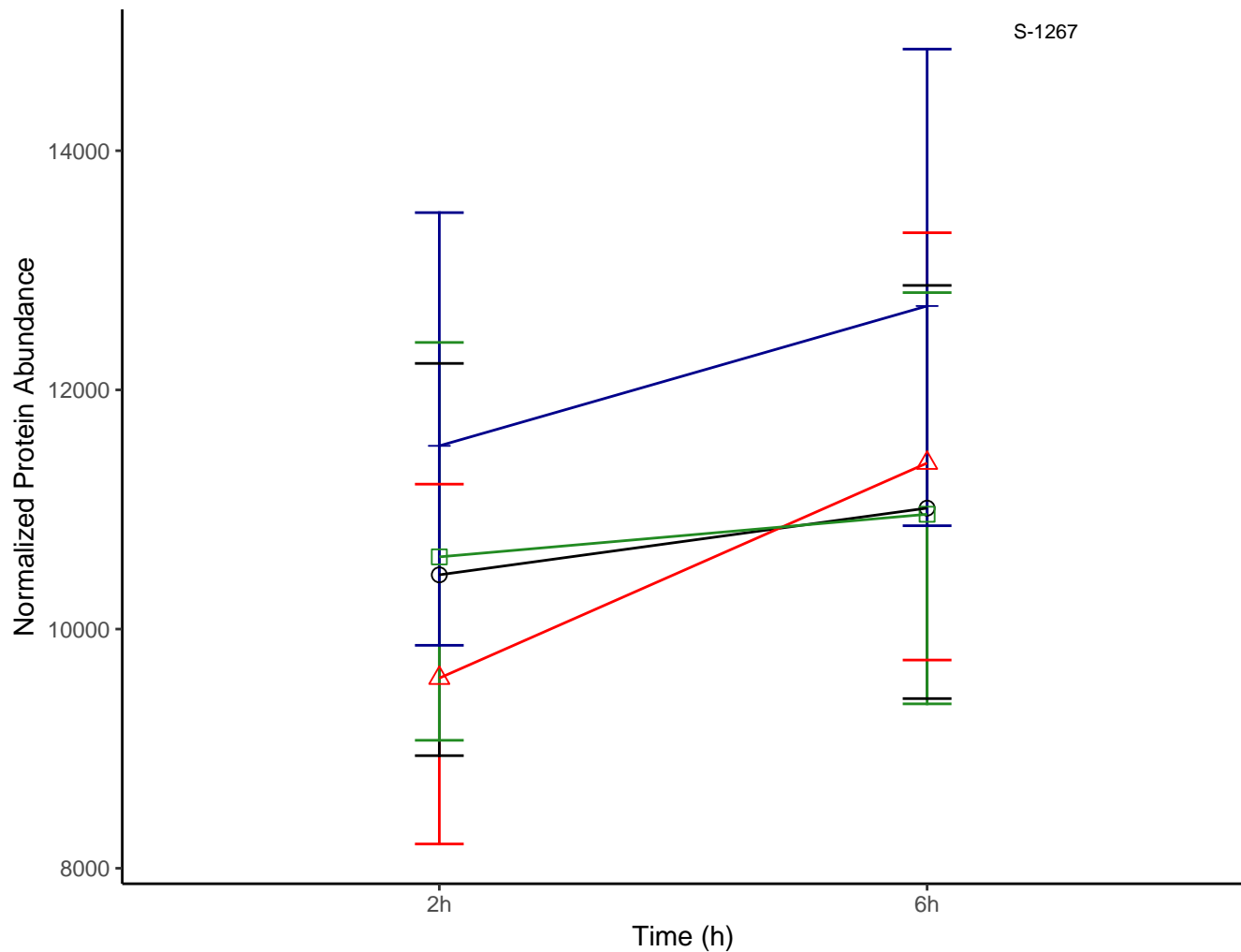
S-1266



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PPI1\_STAAM

S-1267



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PRSA\_STAAM

S-1268

Normalized Protein Abundance

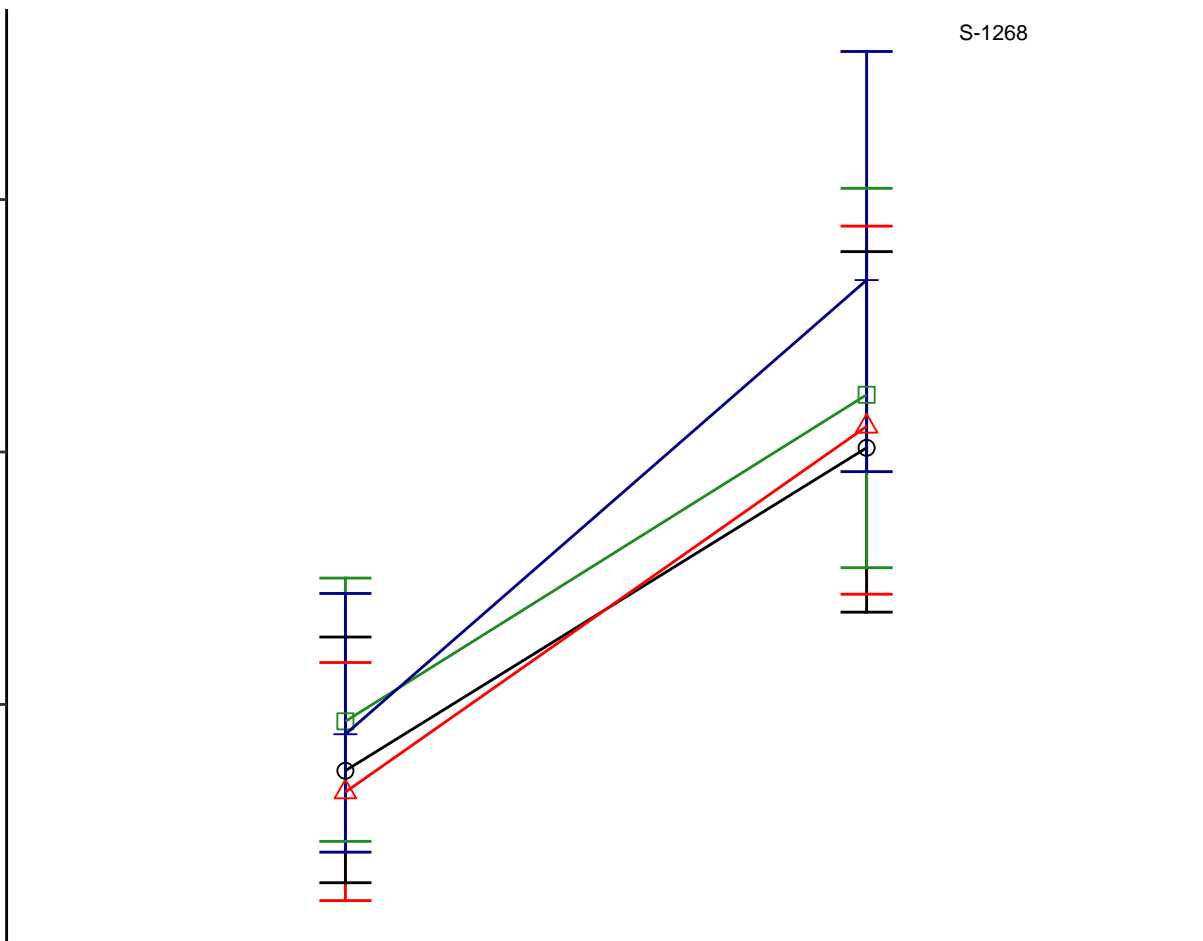
15000  
12000  
9000

2h

6h

Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PSTB\_STAAM

S-1269

Normalized Protein Abundance

15000

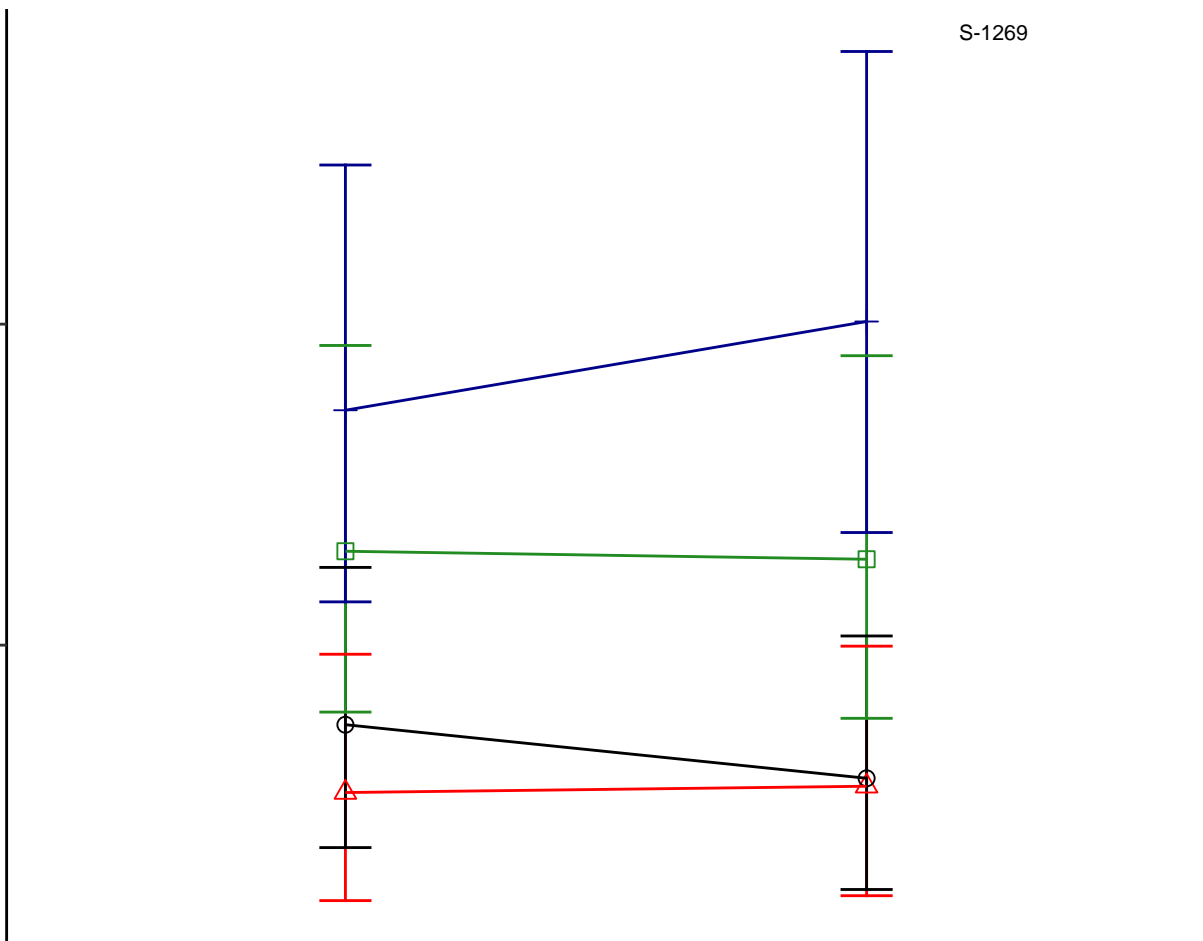
10000

2h

6h

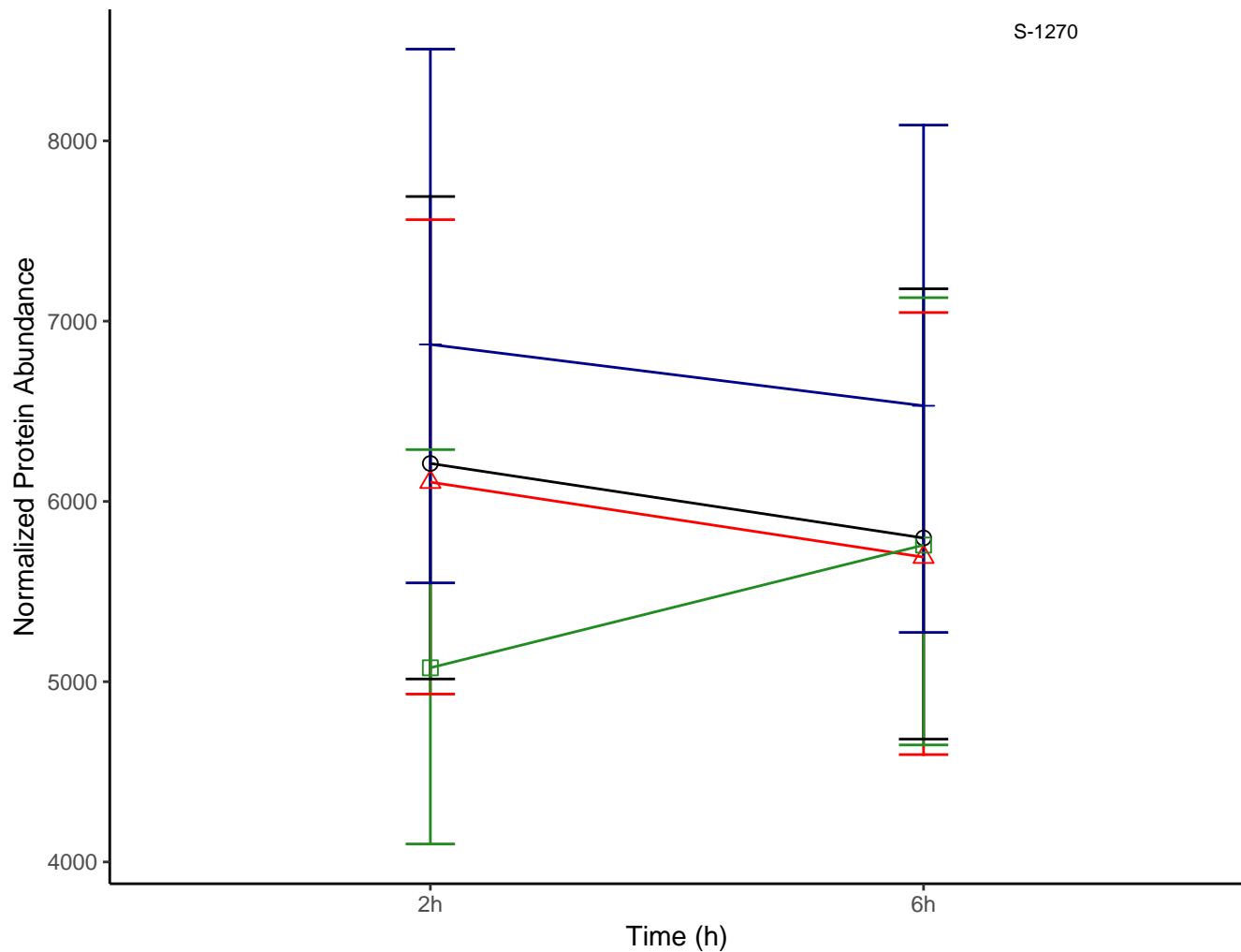
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PSTS\_STAAM

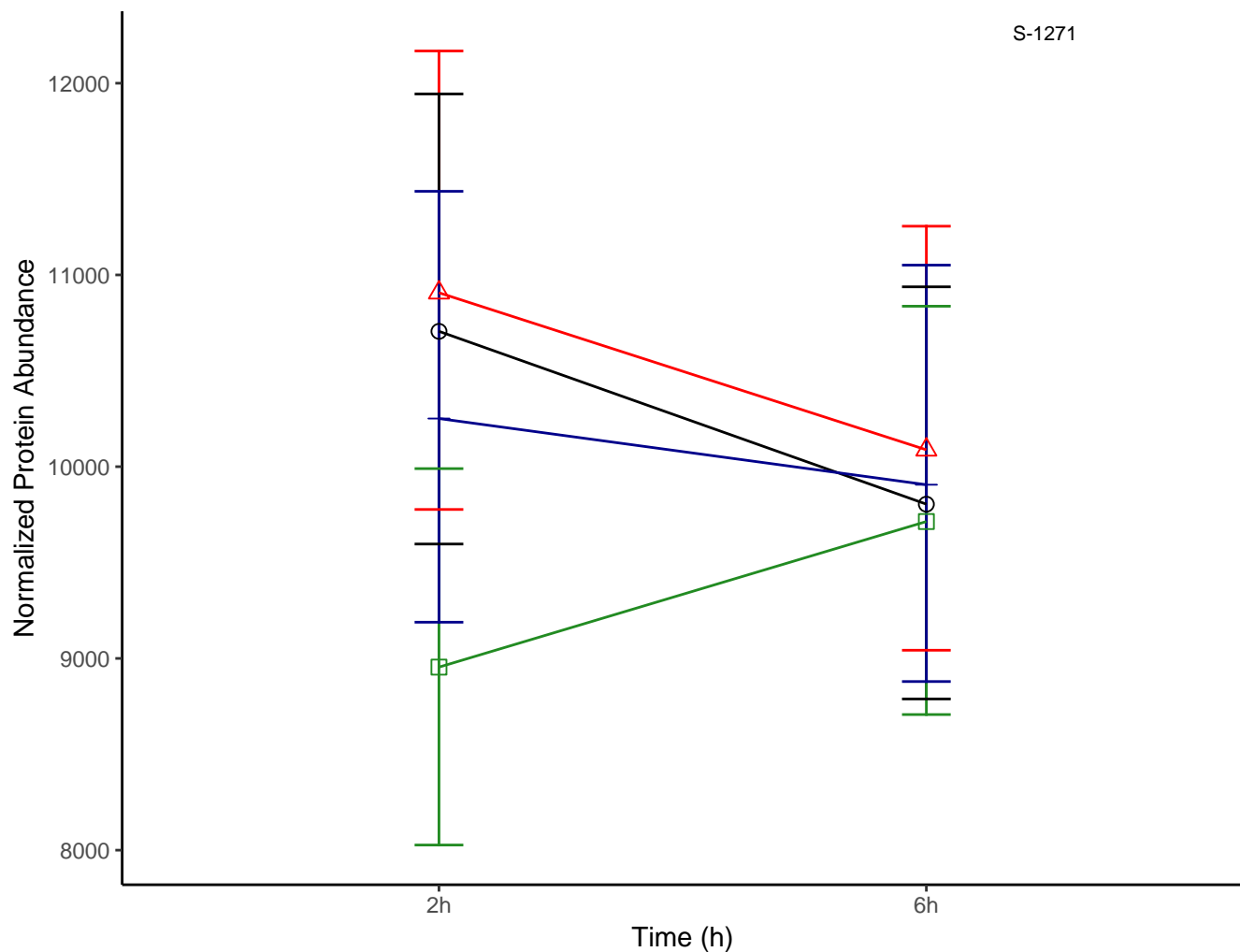
S-1270



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## PT1\_STAAM

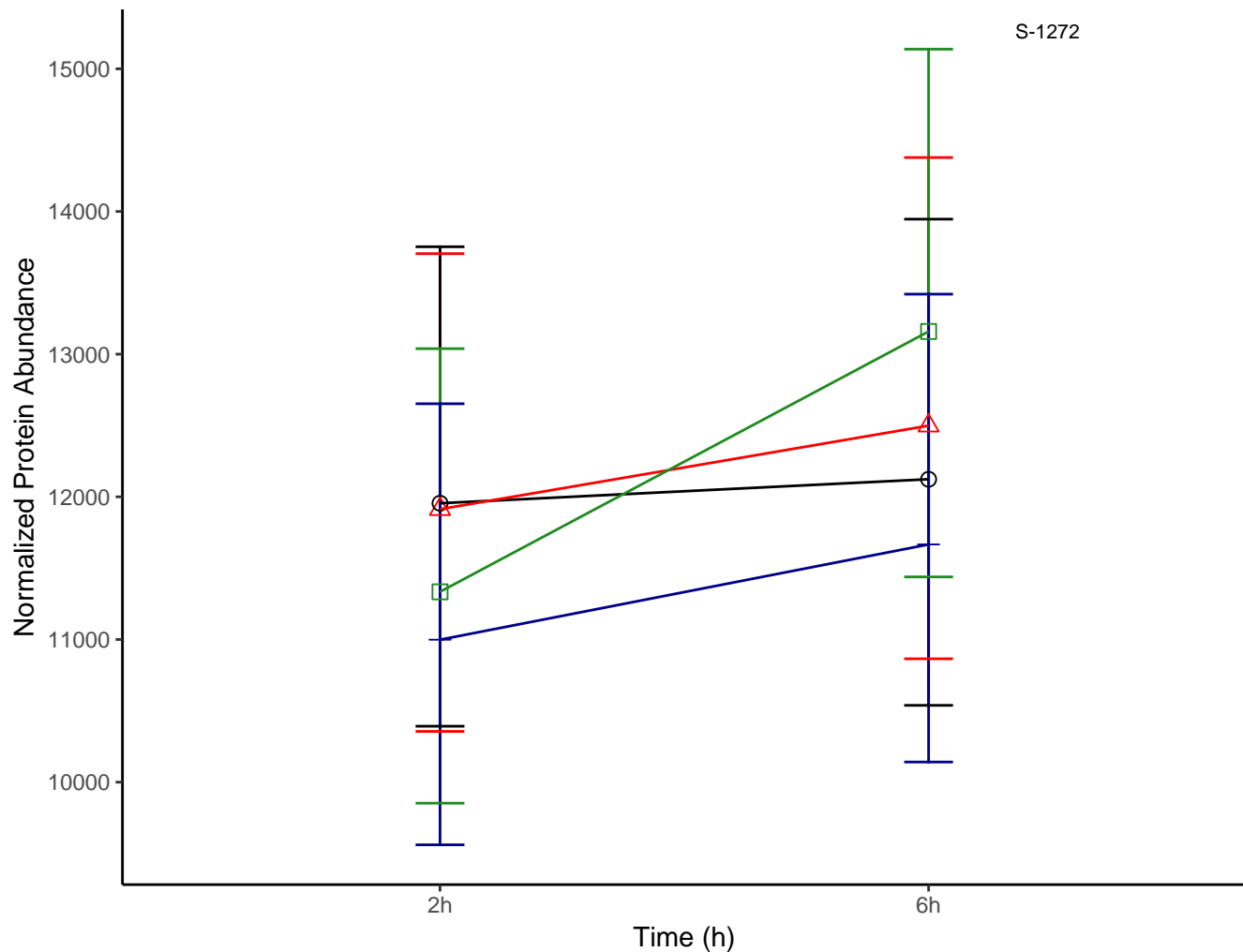
S-1271



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## PTAS\_STAAM

S-1272

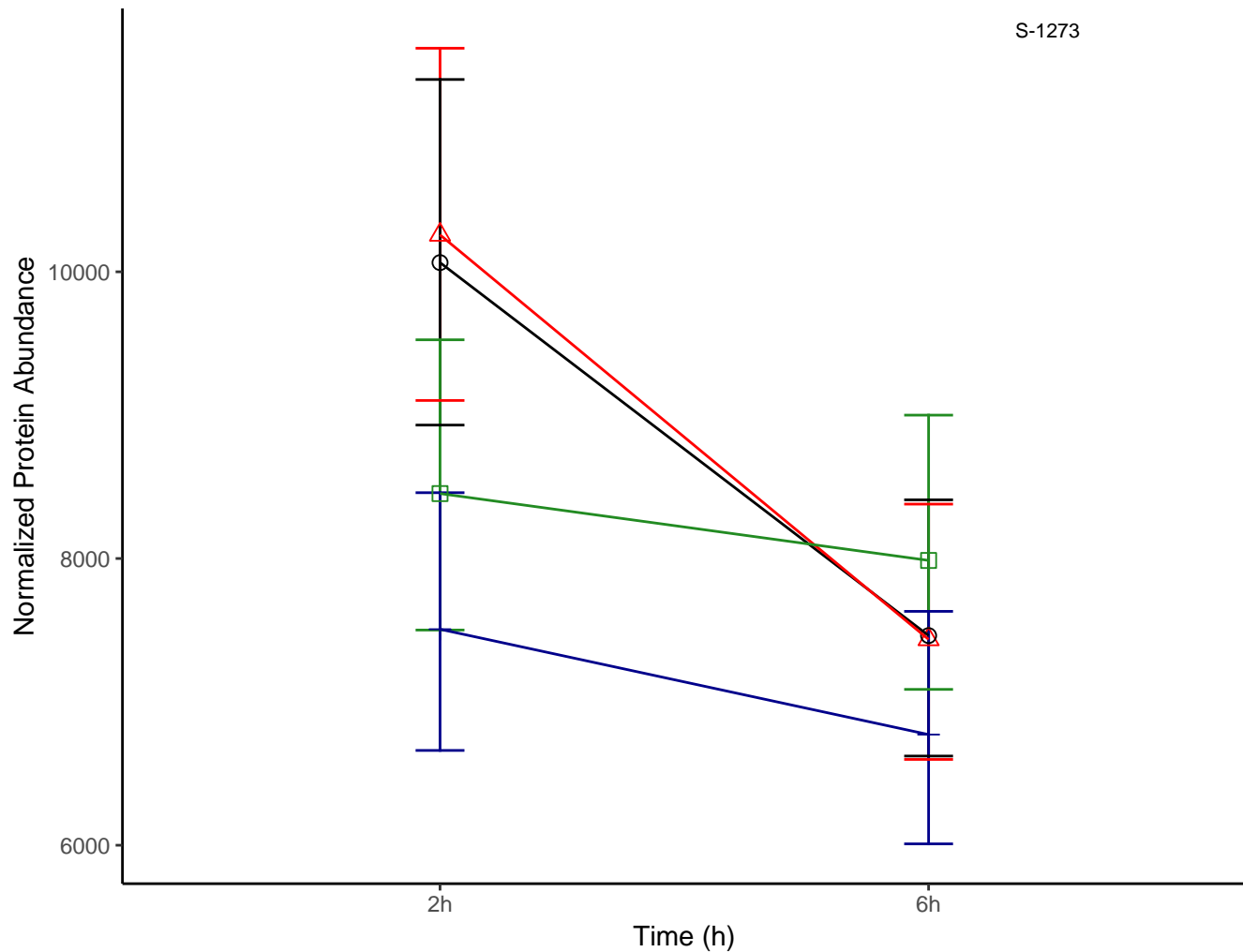


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# PTG3C\_STAAM

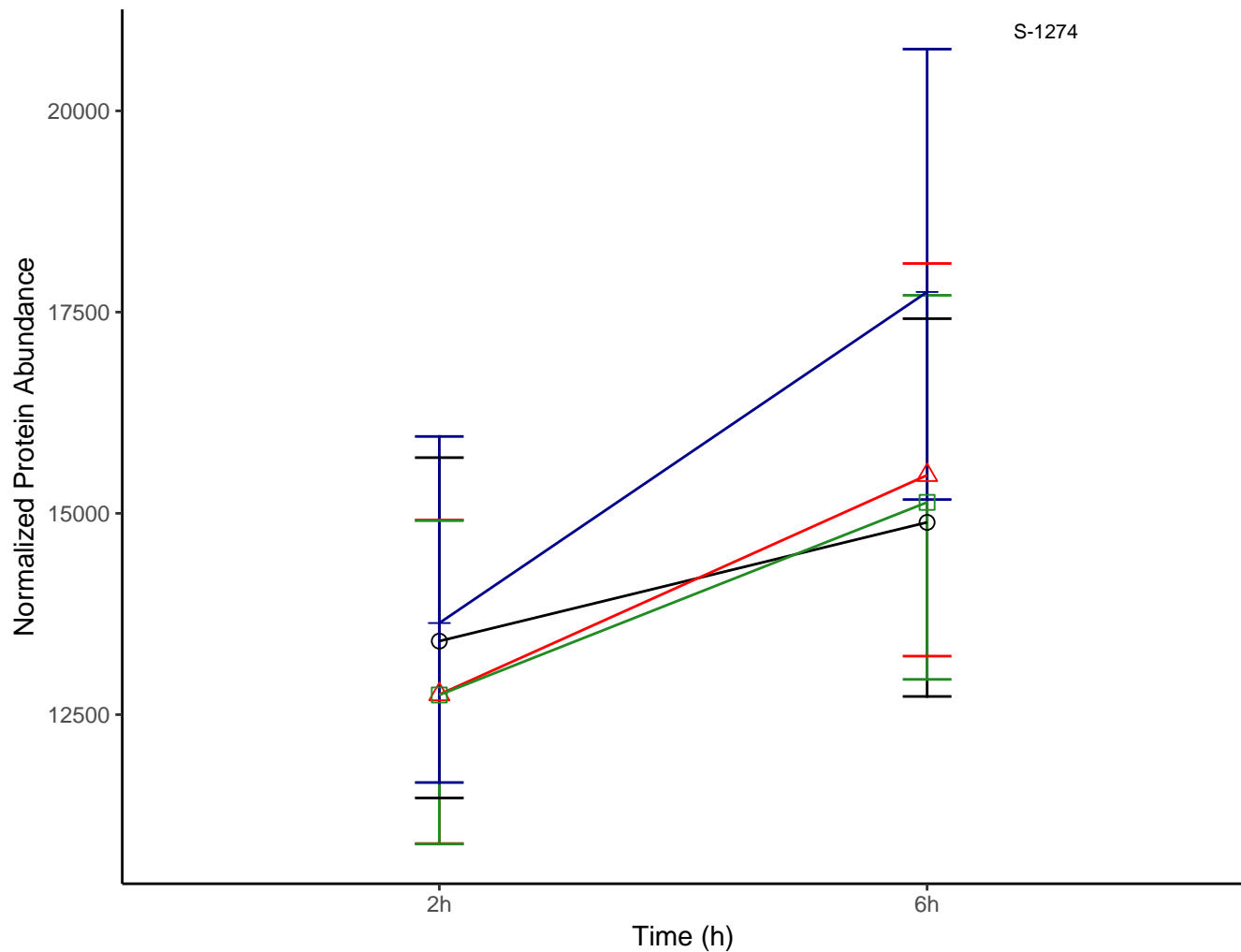
S-1273



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PTGA\_STAAM

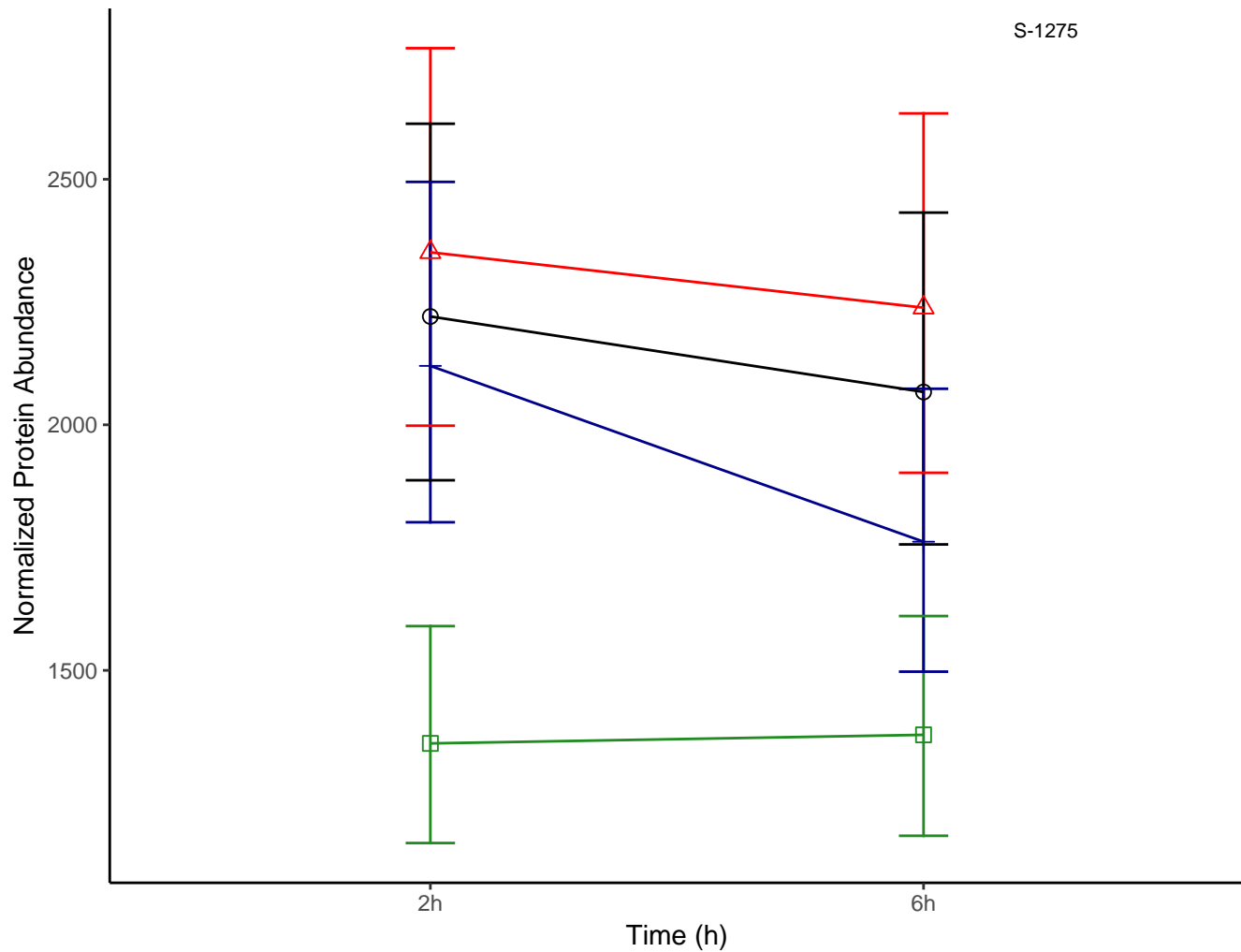
S-1274



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PTH\_STAAM

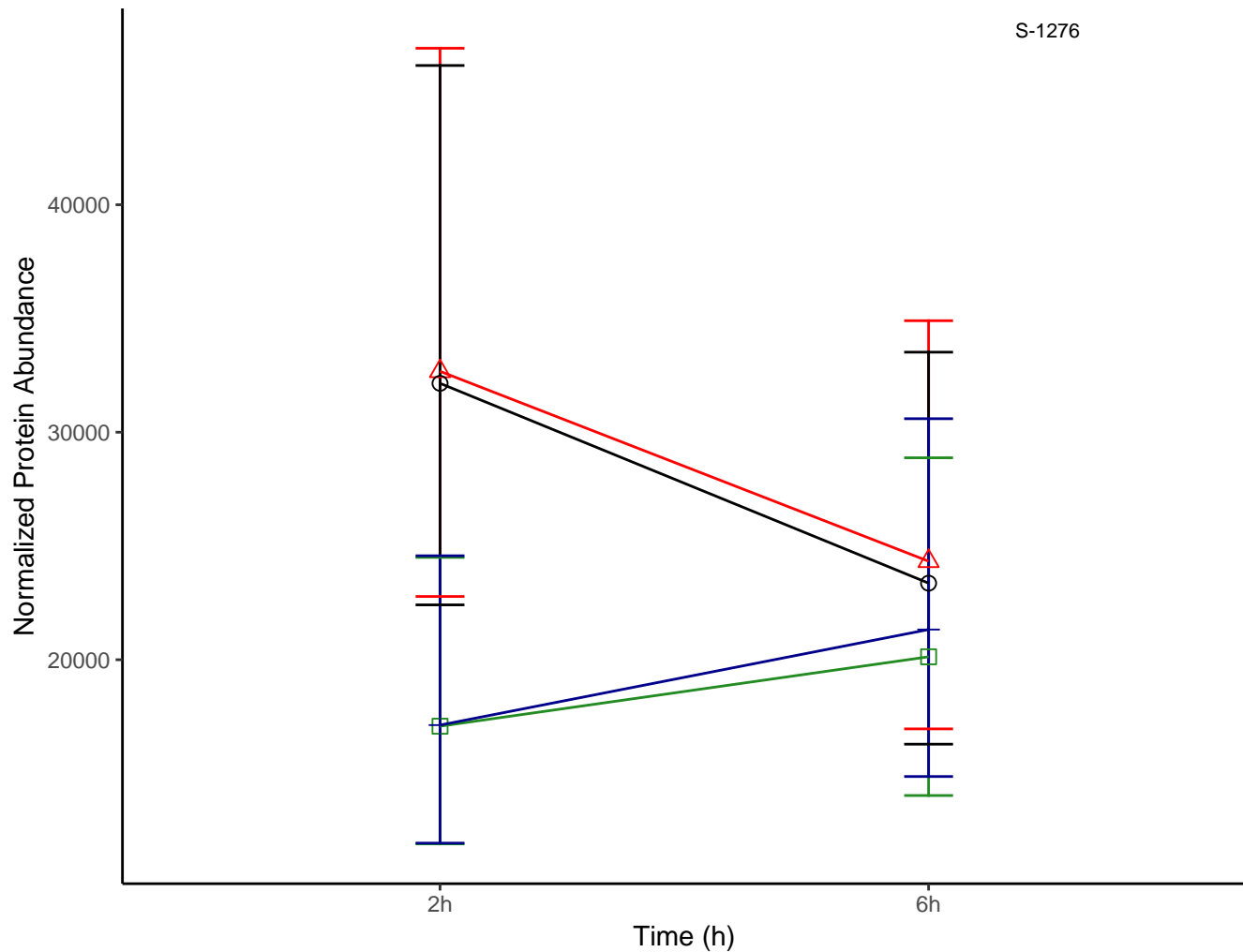
S-1275



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PTHP\_STAAM

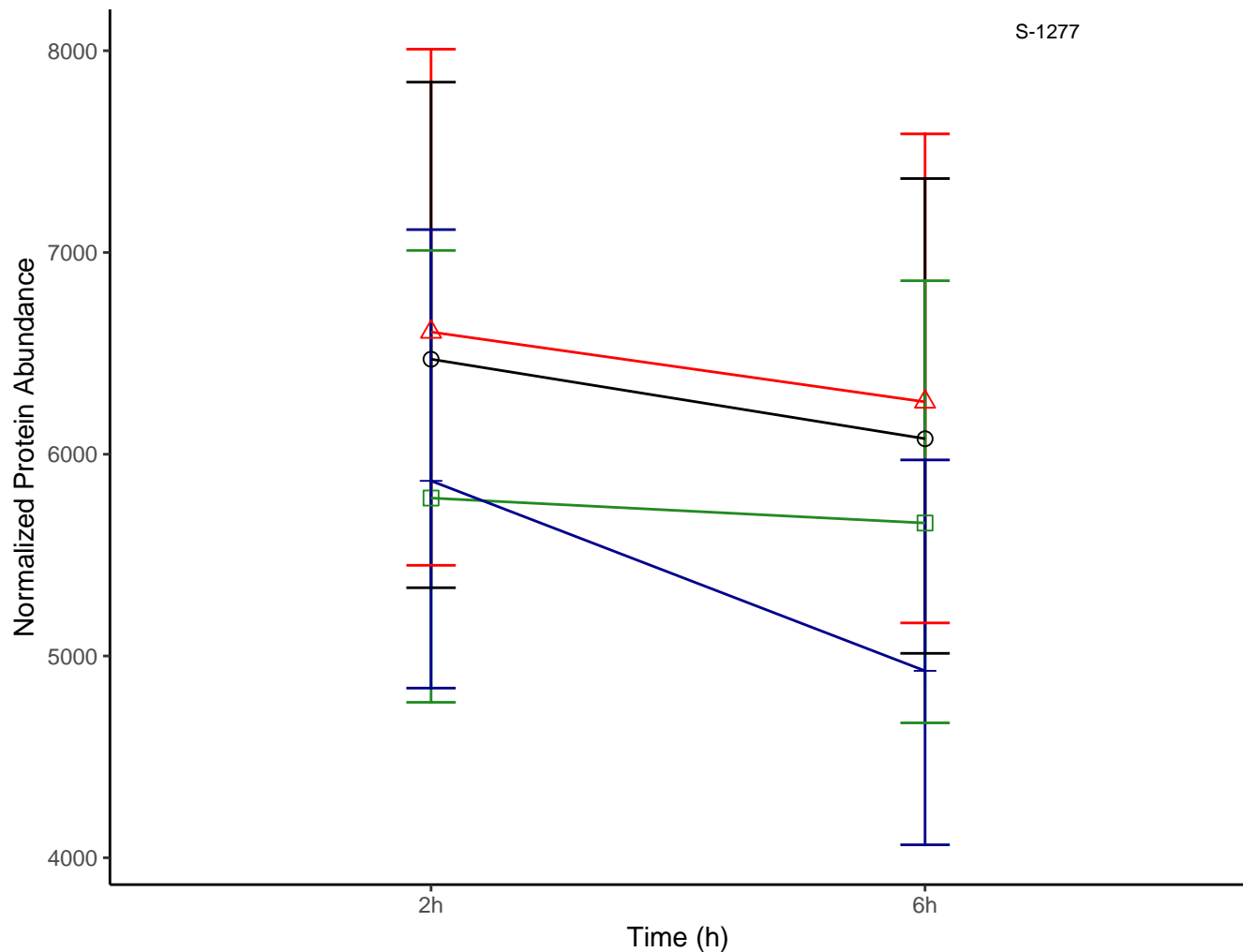
S-1276



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PTMA\_STAAM

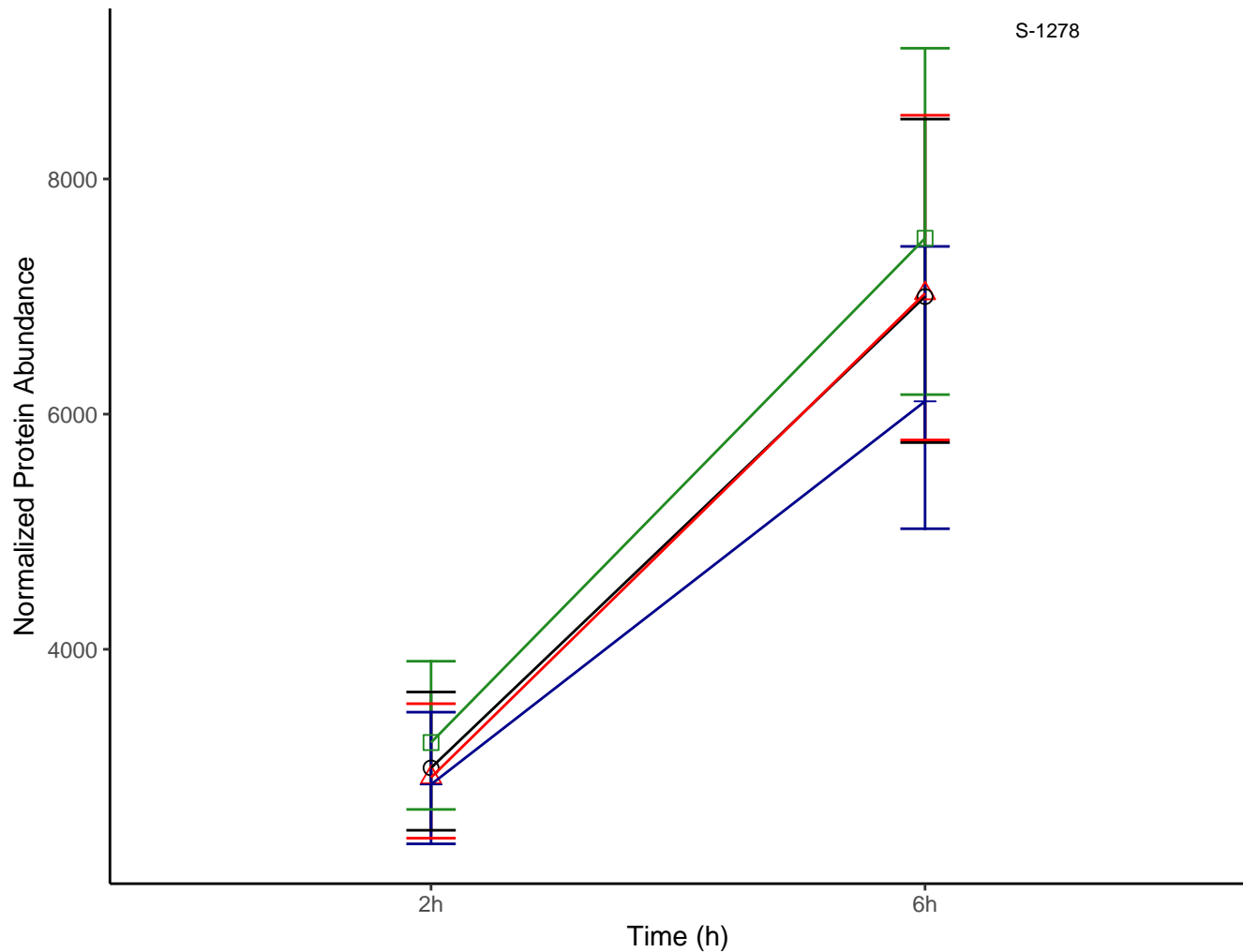
S-1277



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR1\_STAAM

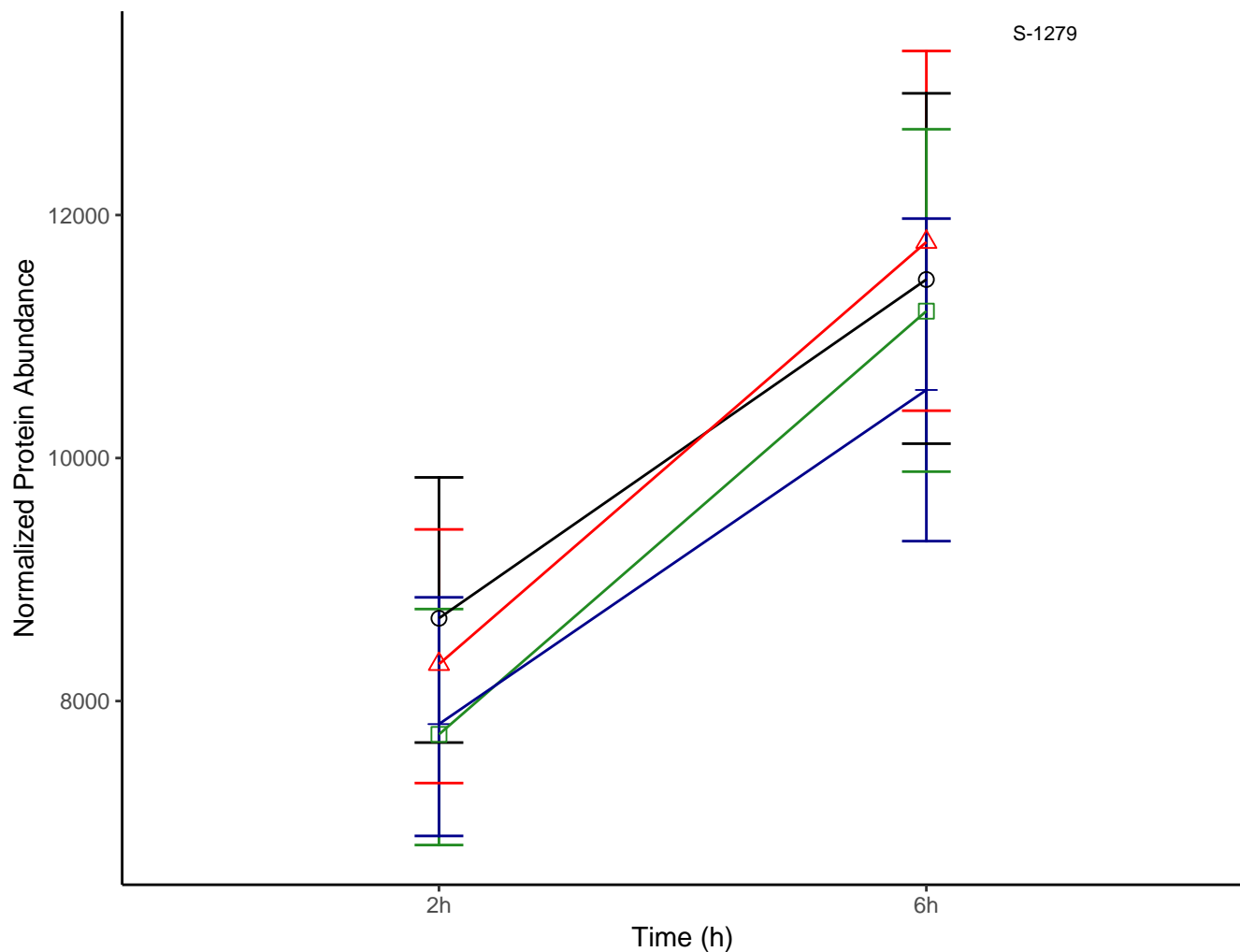
S-1278



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PUR2\_STAAM

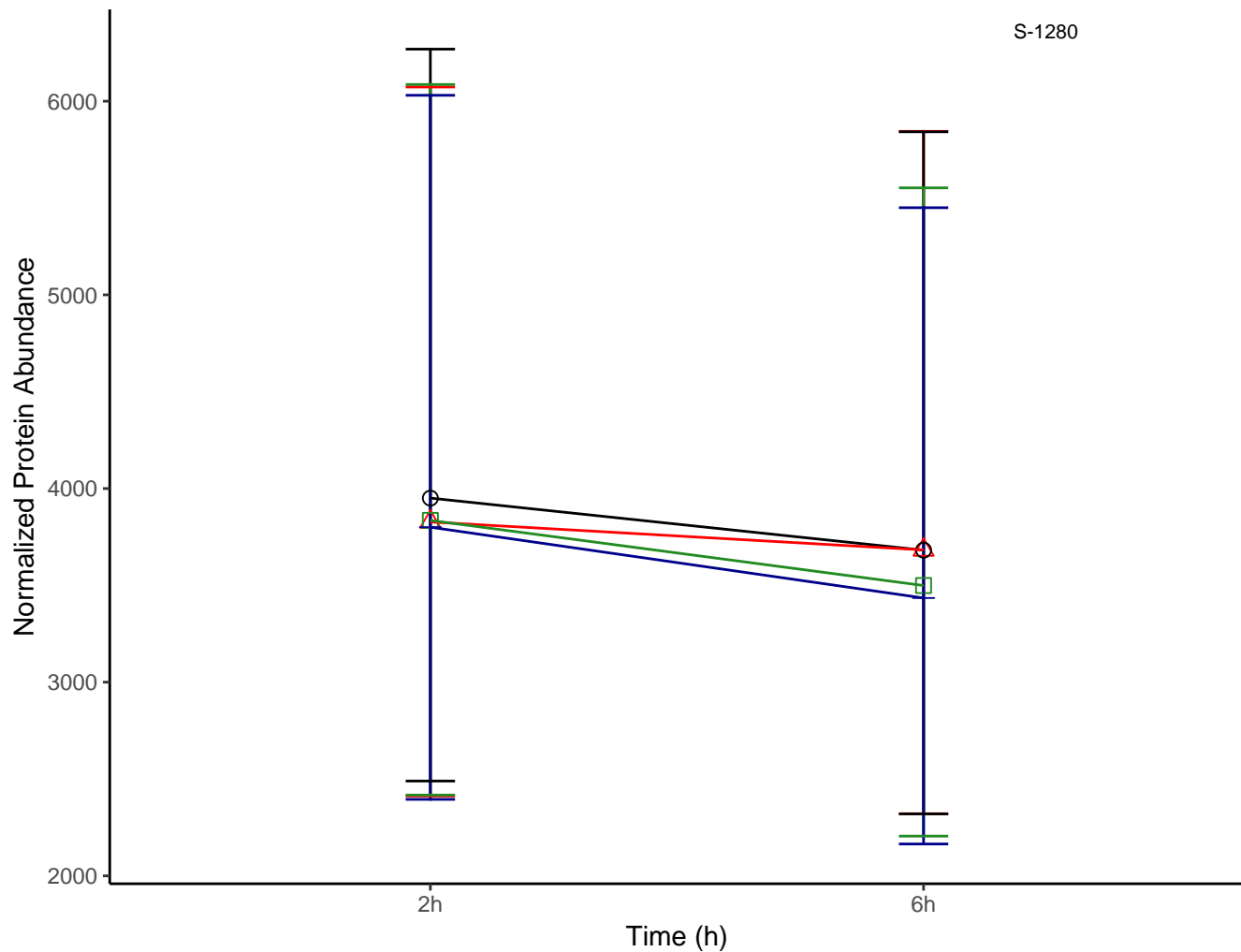
S-1279



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PUR3\_STAAM

S-1280

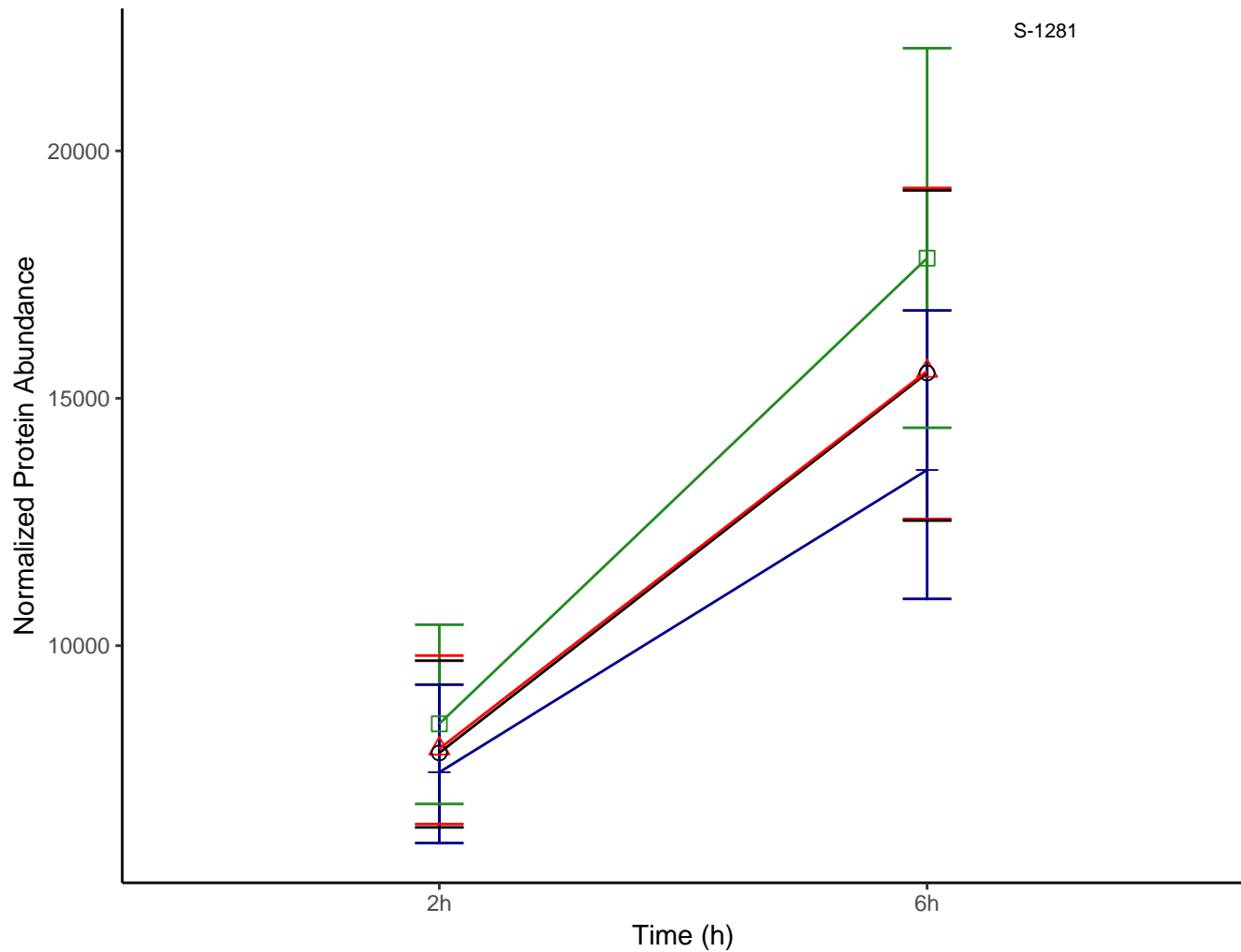


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# PUR5\_STAAM

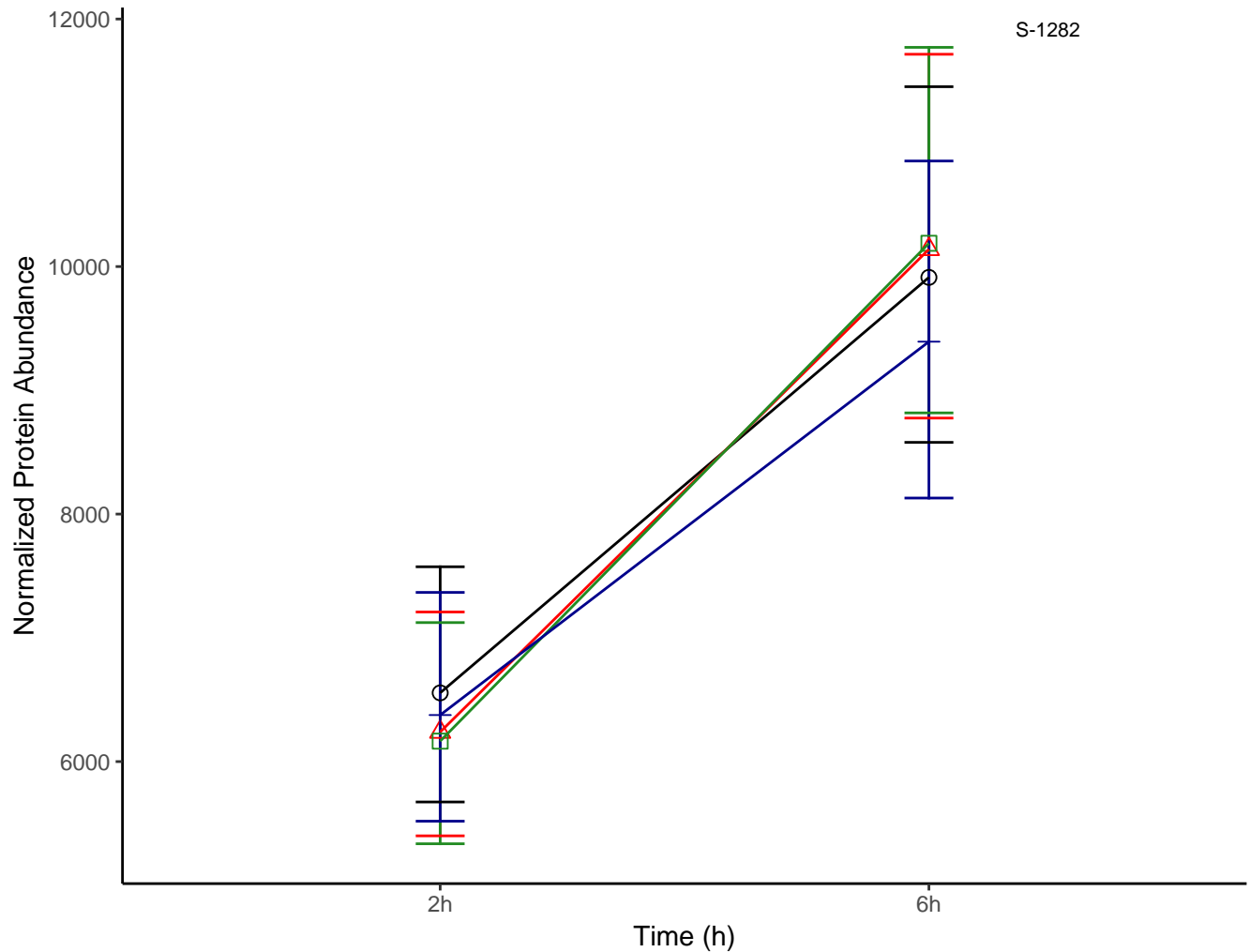
S-1281



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR7\_STAAM

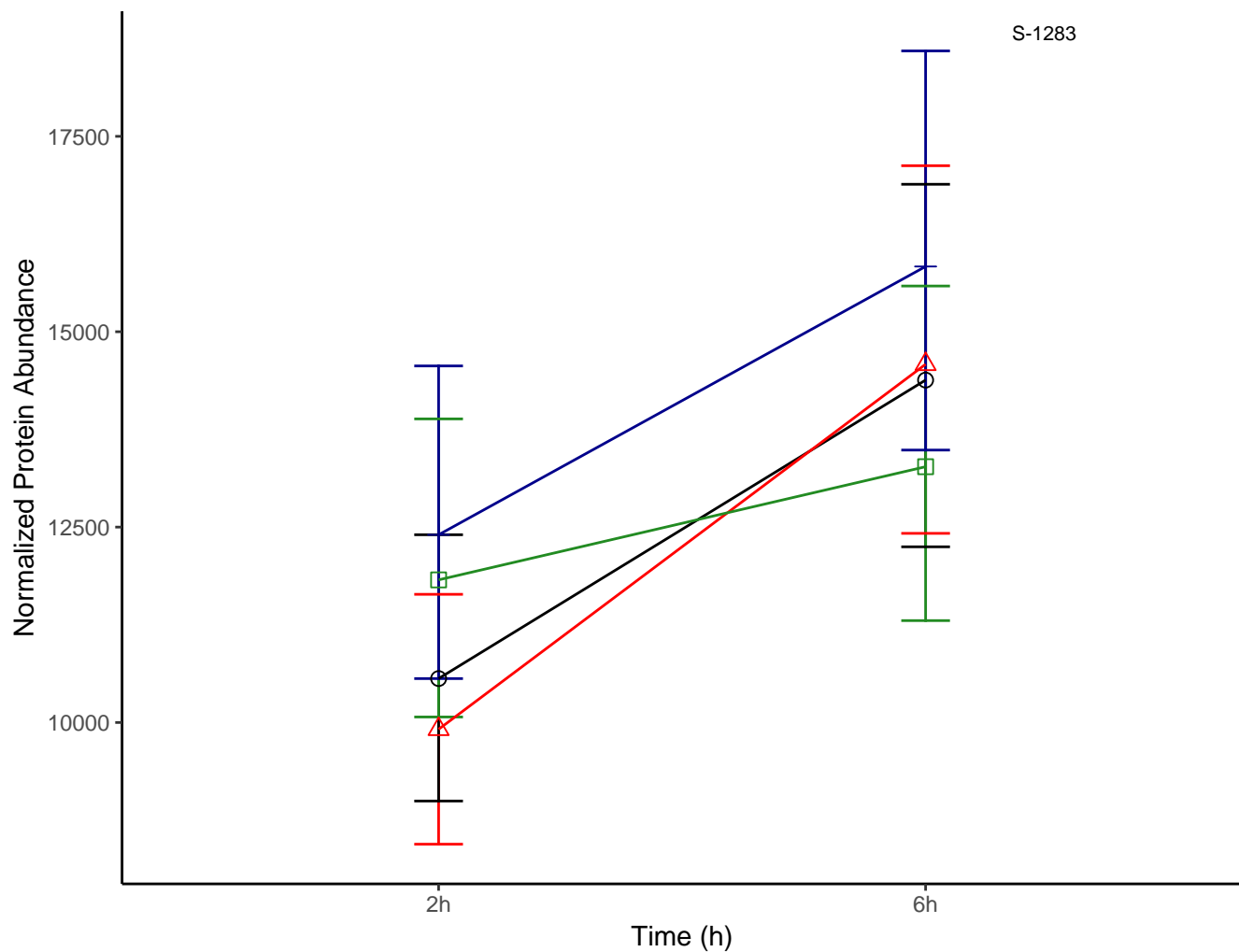
S-1282



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR8\_STAAM

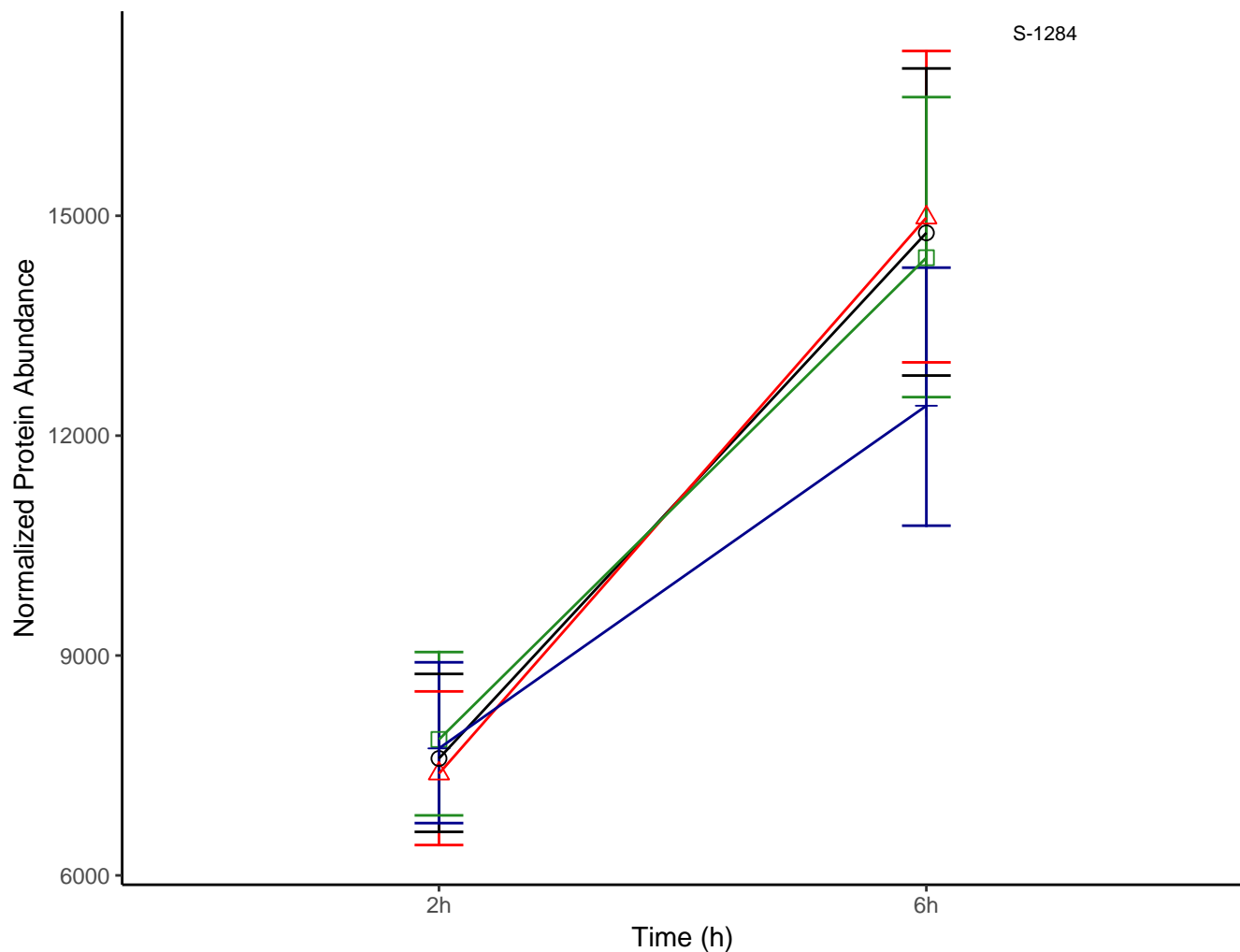
S-1283



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR9\_STAAM

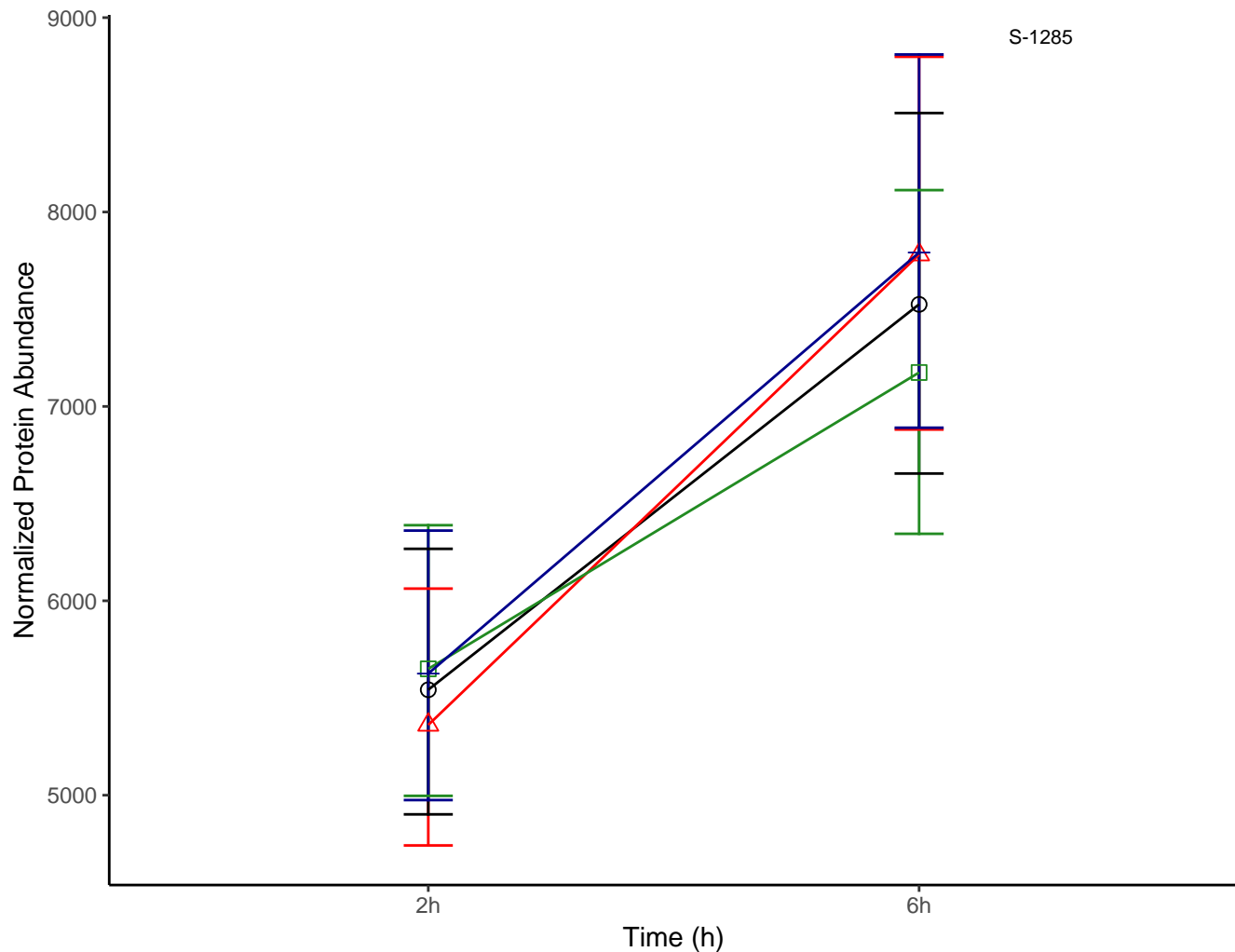
S-1284



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PURA\_STAAM

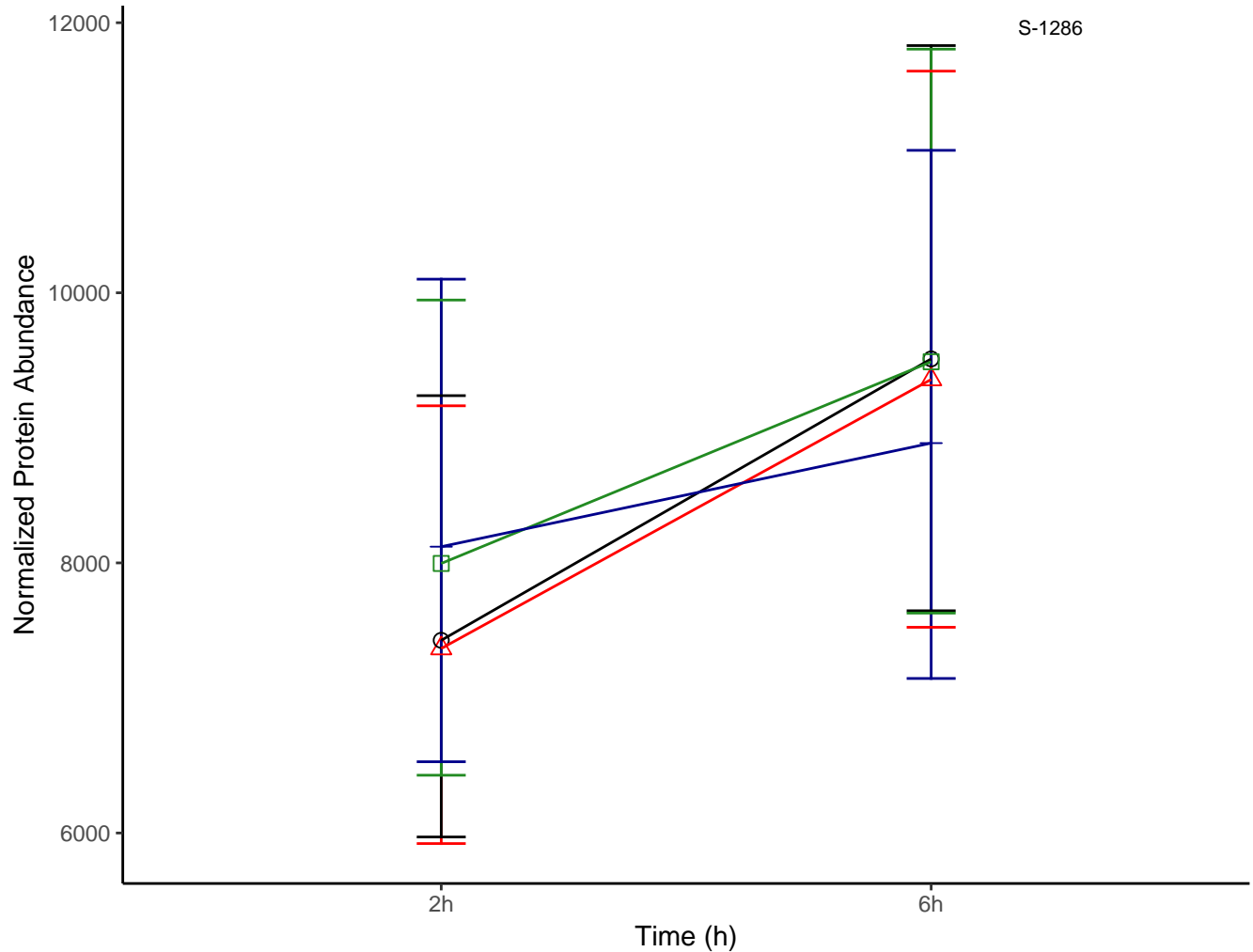
S-1285



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PURK\_STAAM

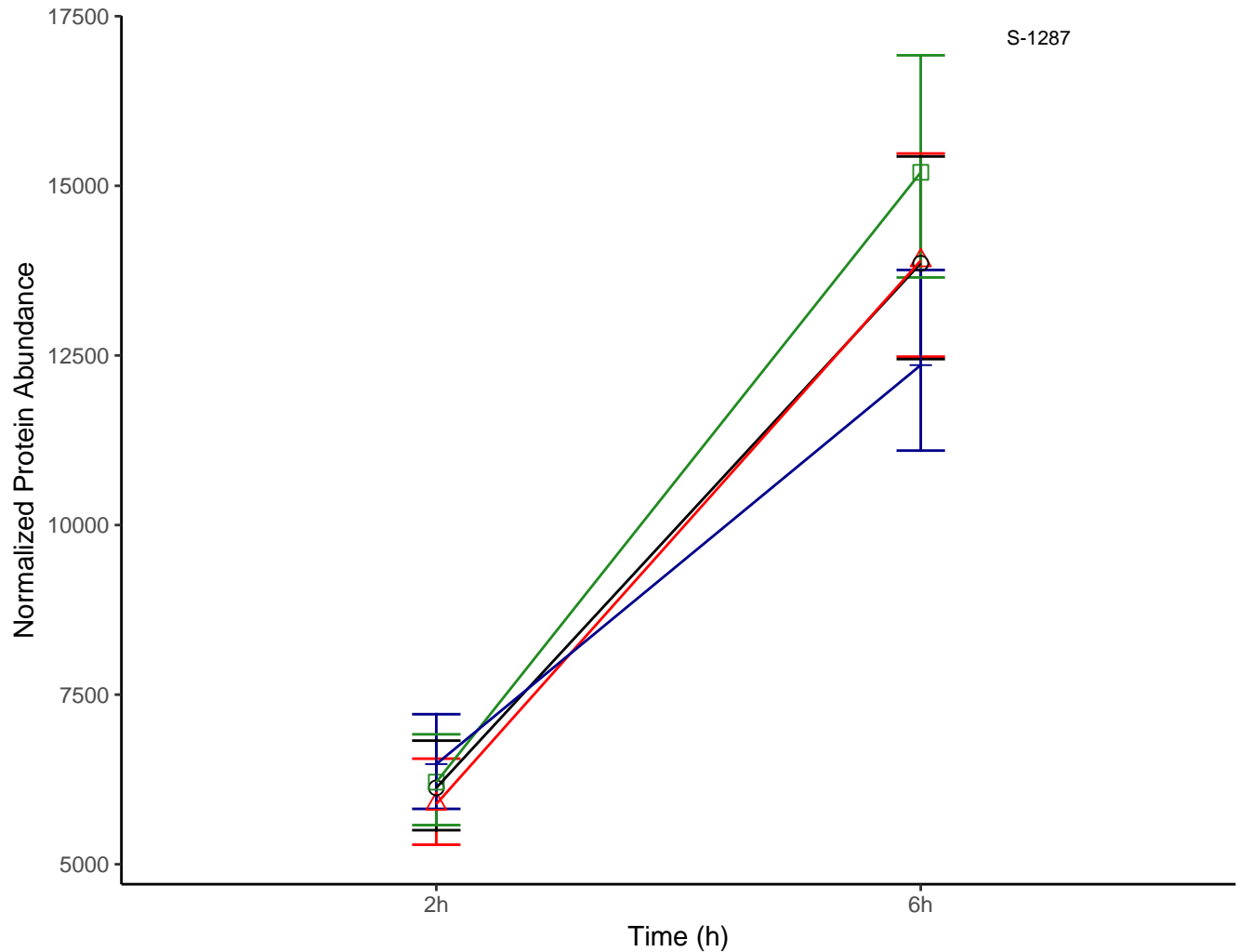
S-1286



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# PURL\_STAAM

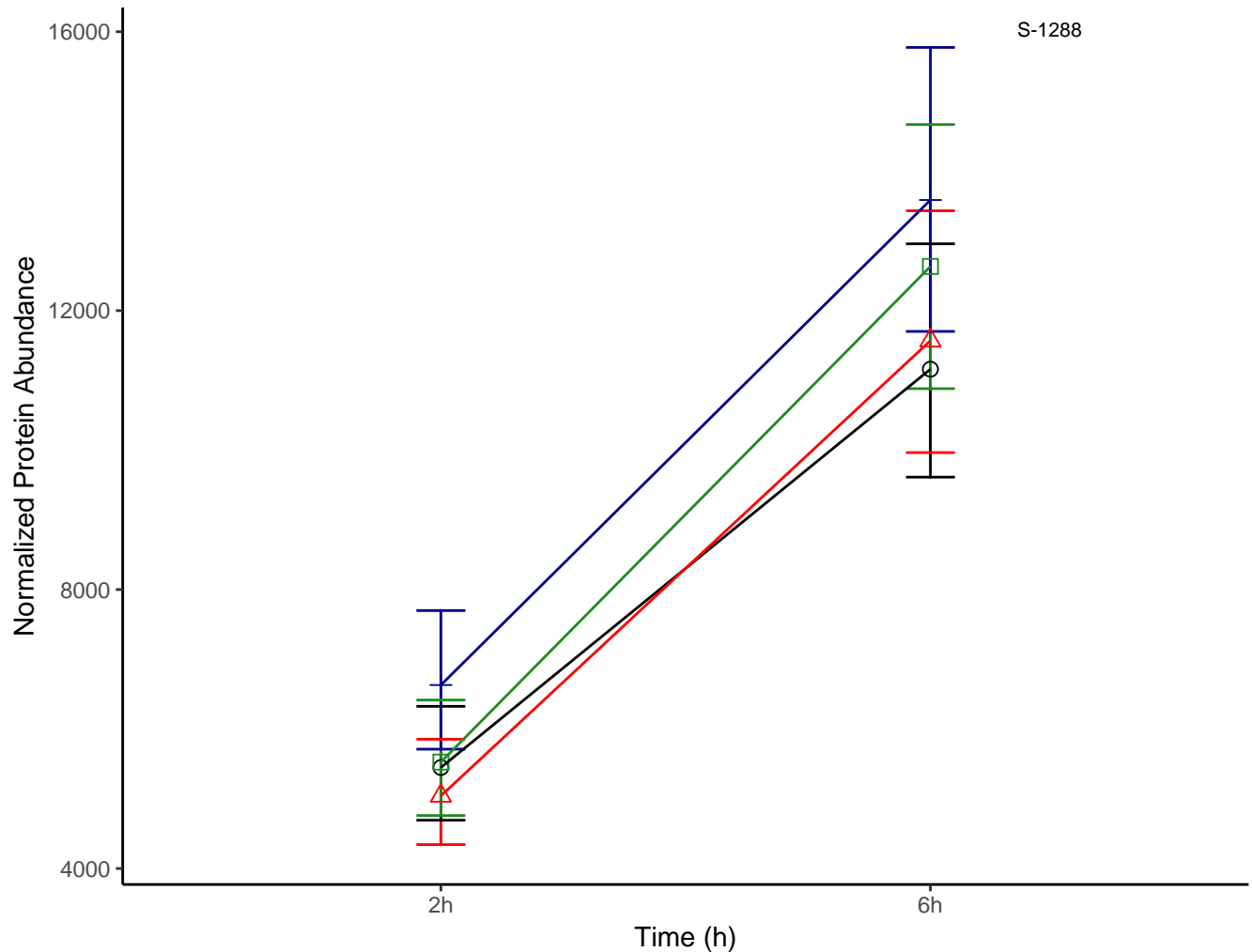
S-1287



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PURQ\_STAAM

S-1288

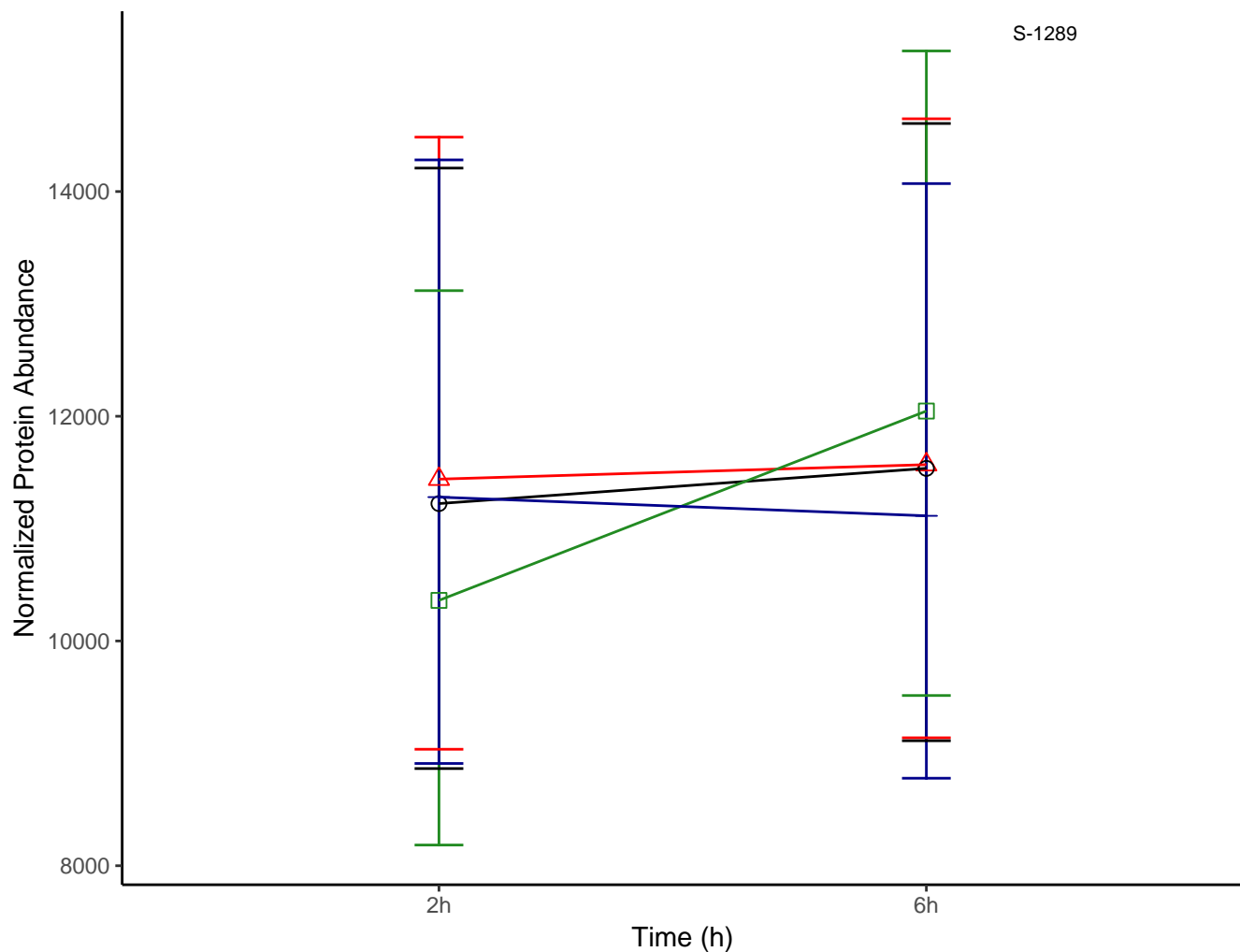


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# PYRB\_STAAM

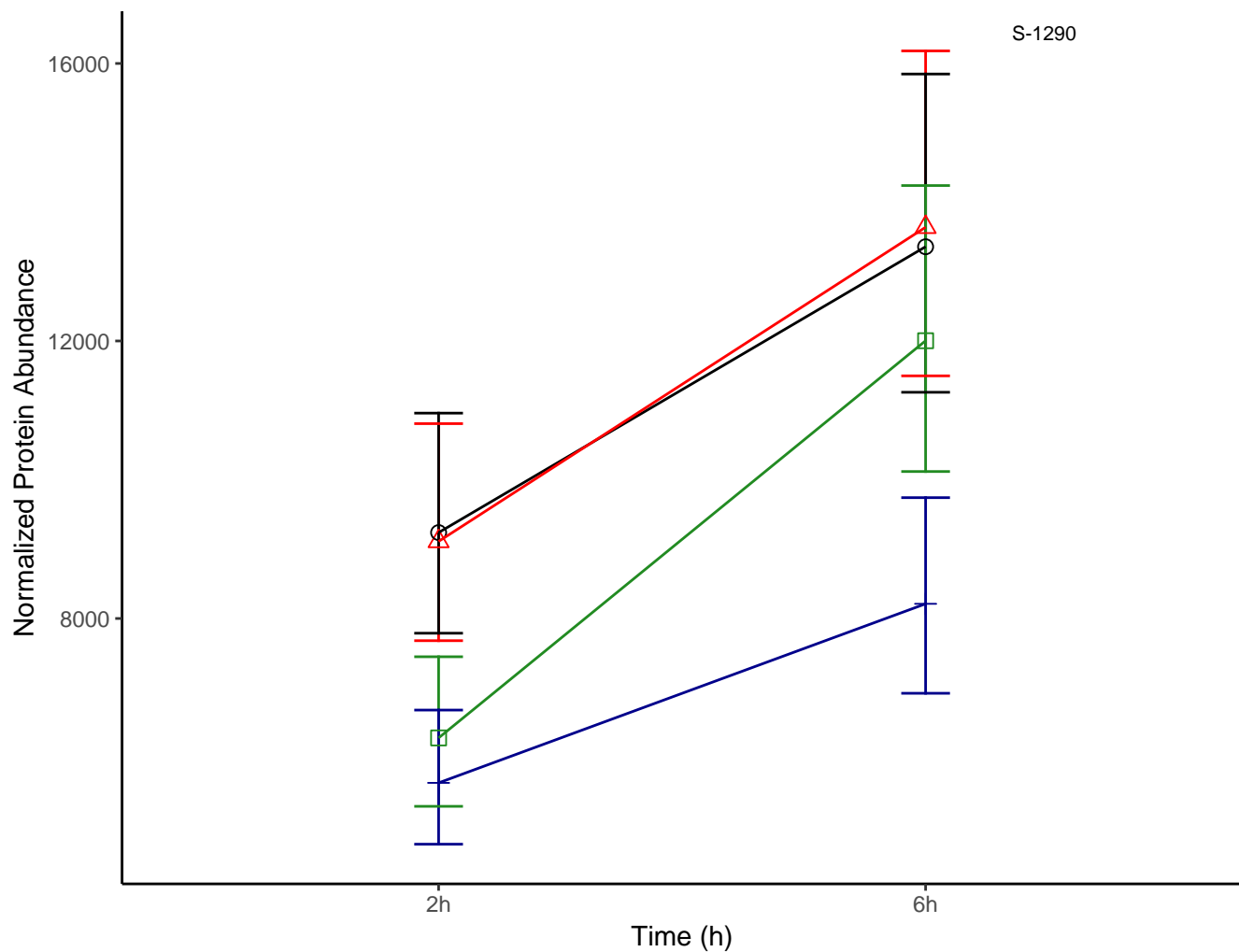
S-1289



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRC\_STAAM

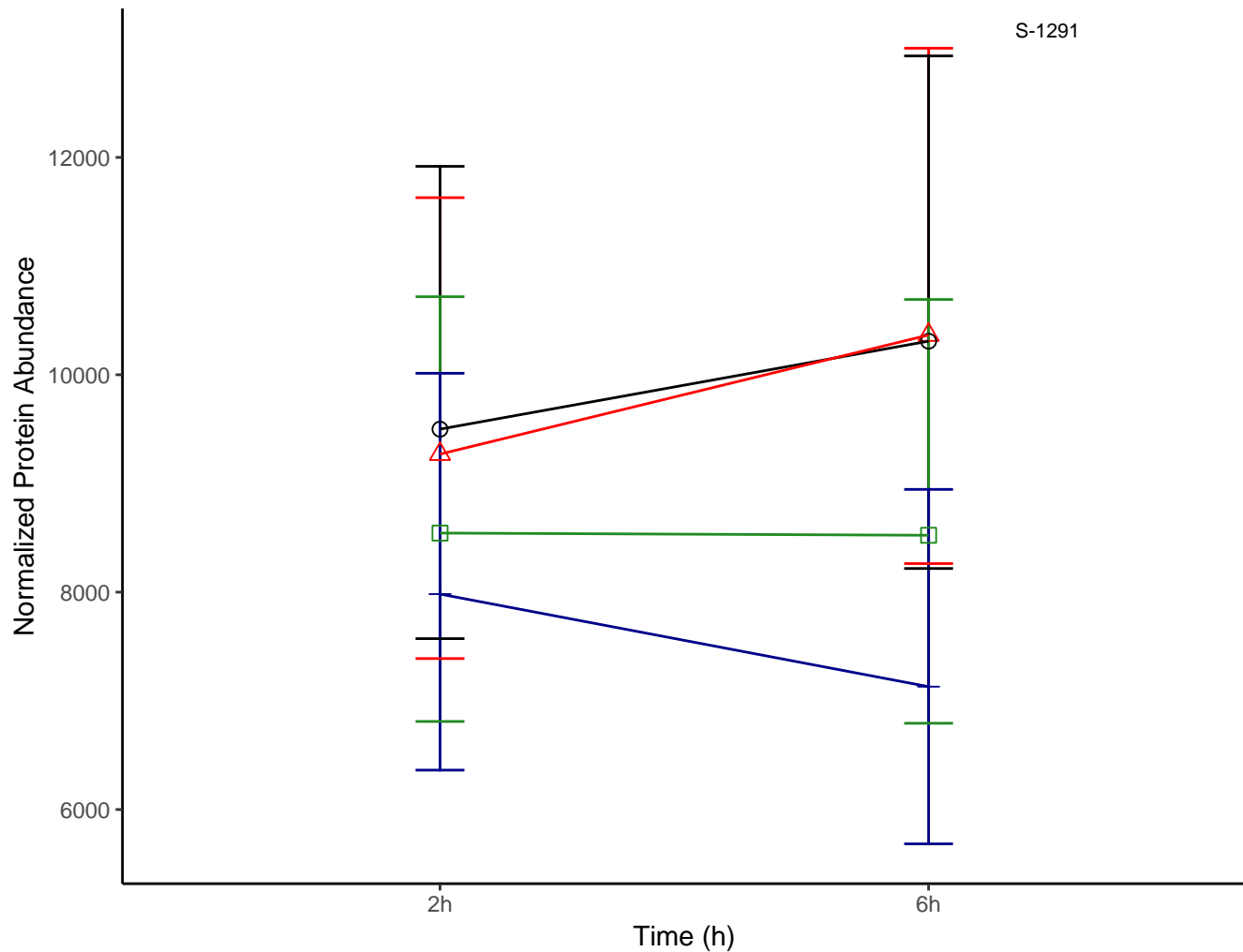
S-1290



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRE\_STAAM

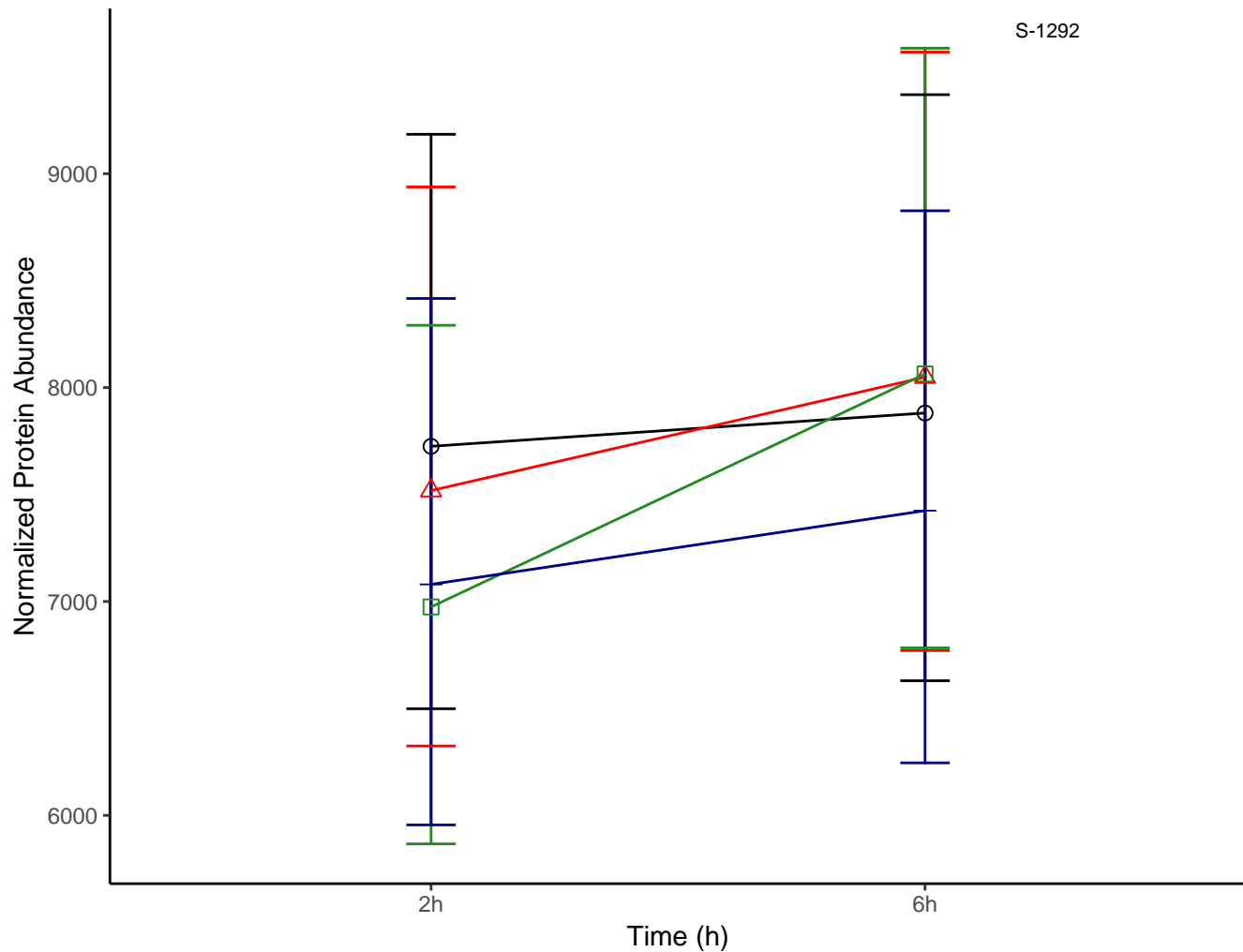
S-1291



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRF\_STAAM

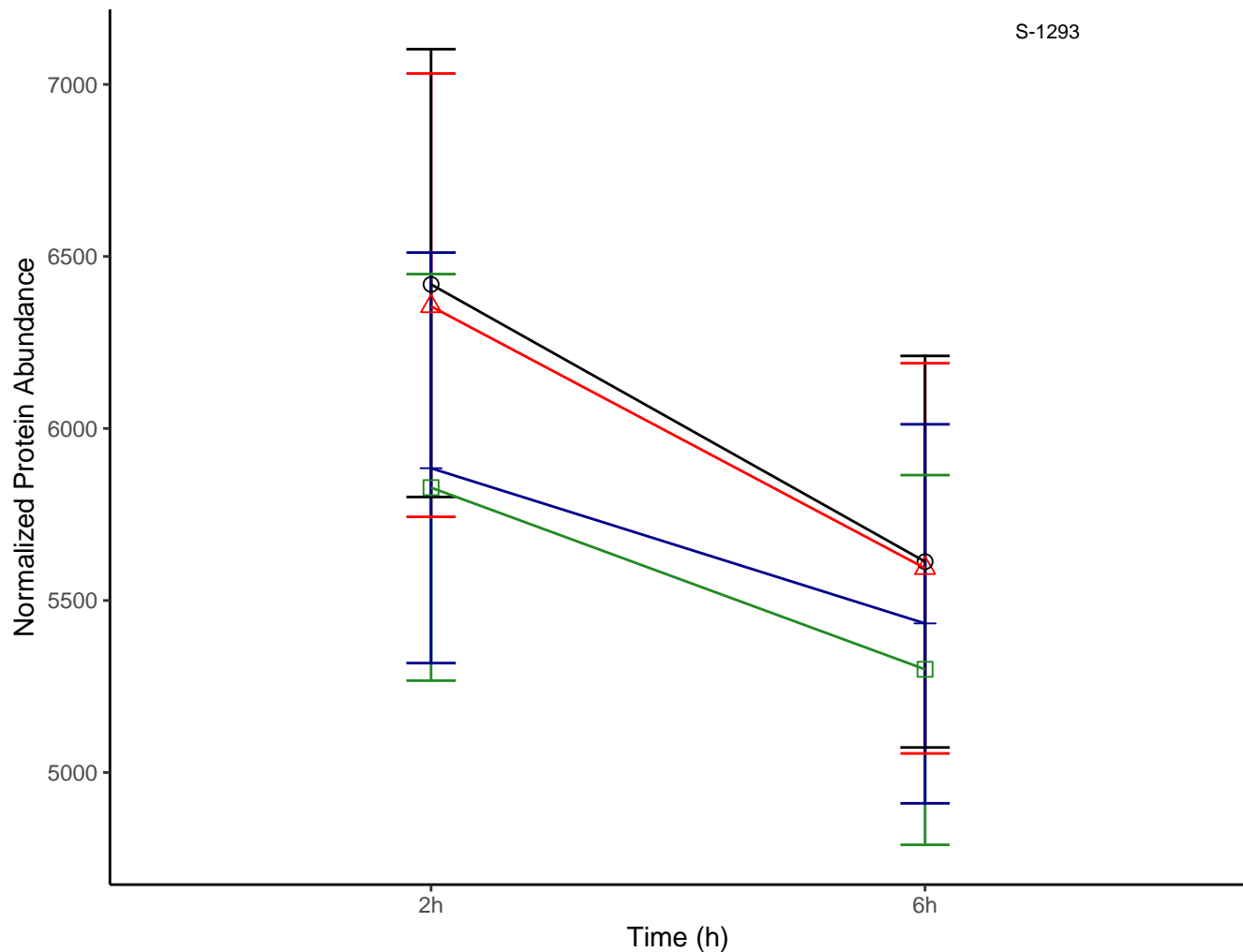
S-1292



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# PYRG\_STAAM

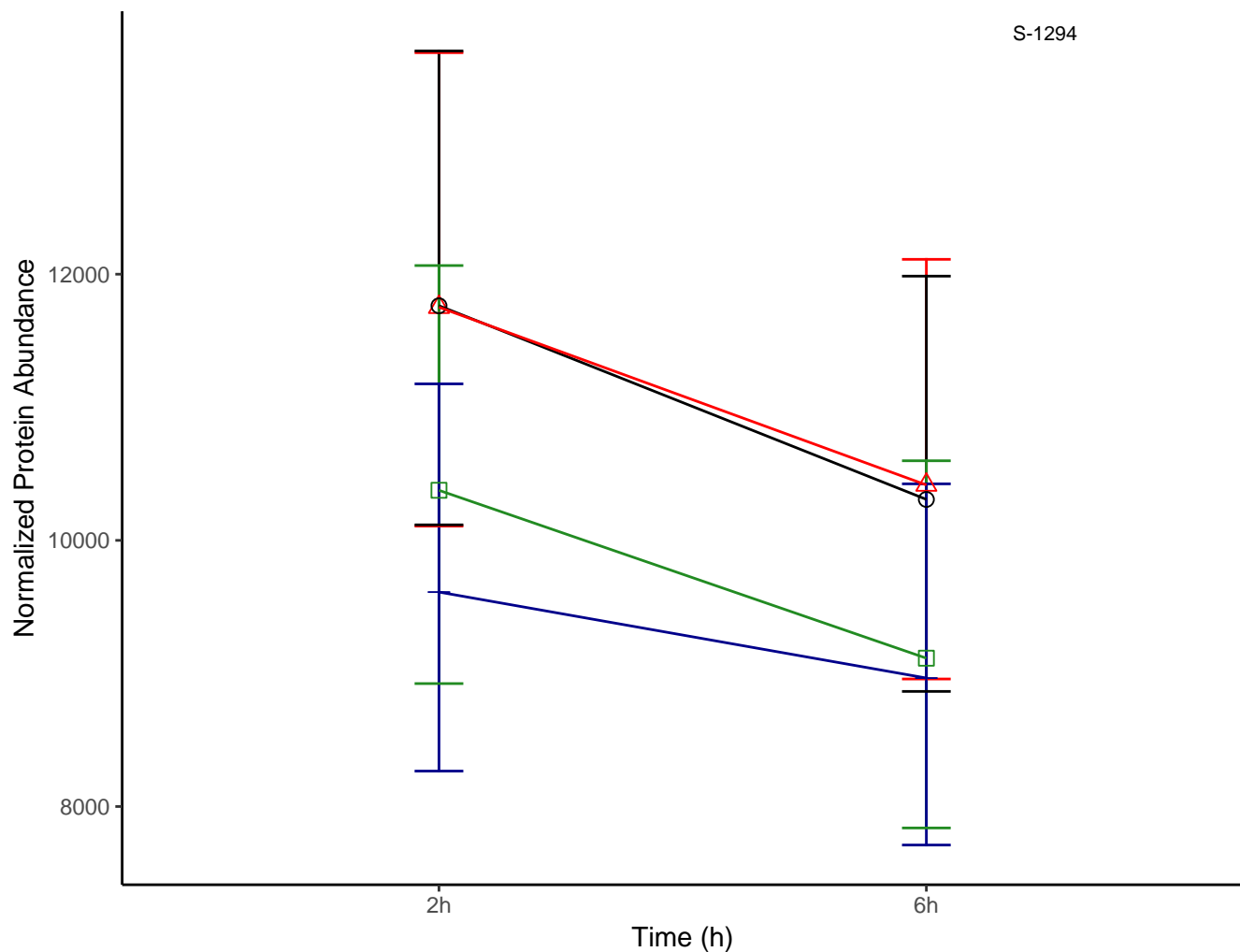
S-1293



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PYRH\_STAAM

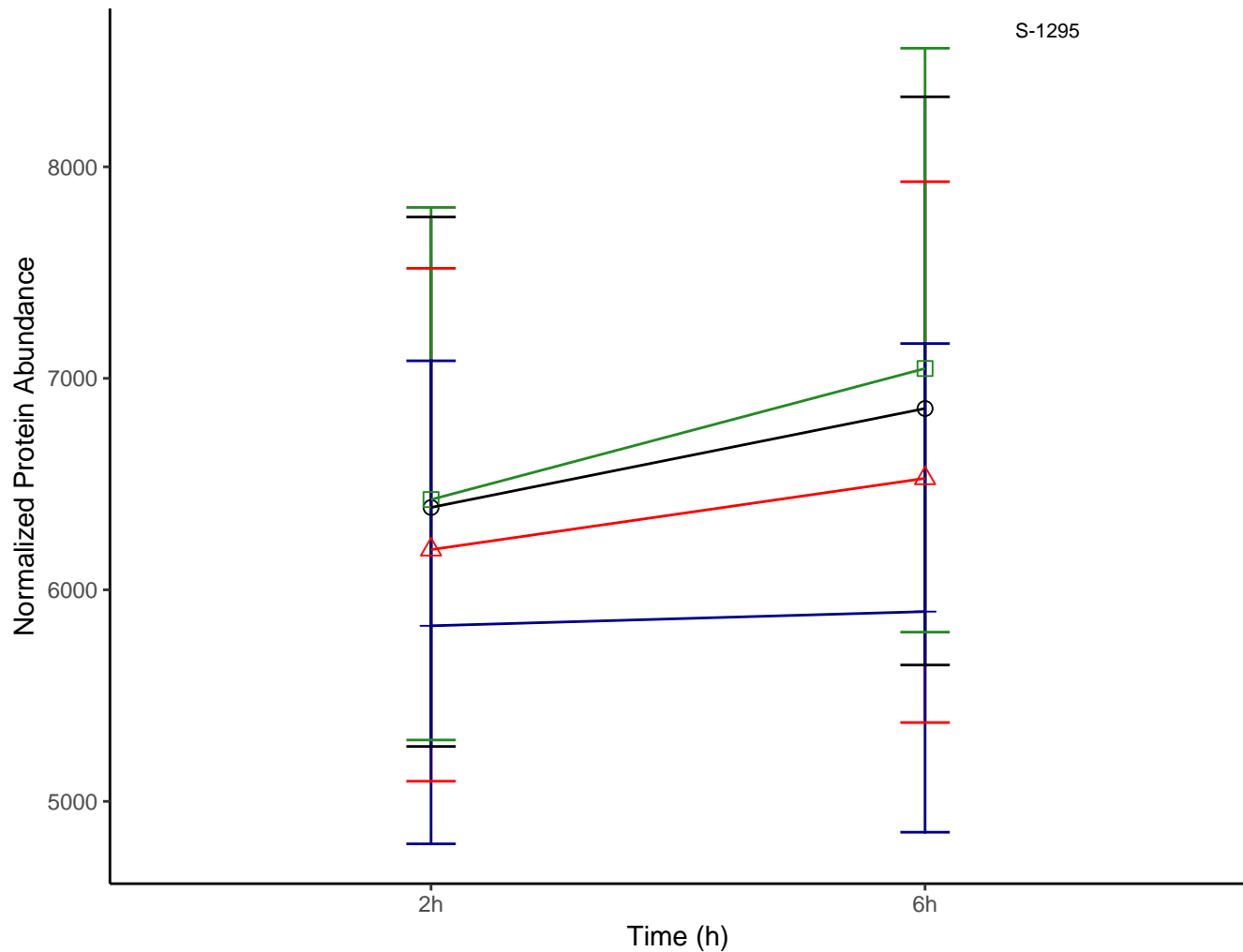
S-1294



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# PYRR\_STAAM

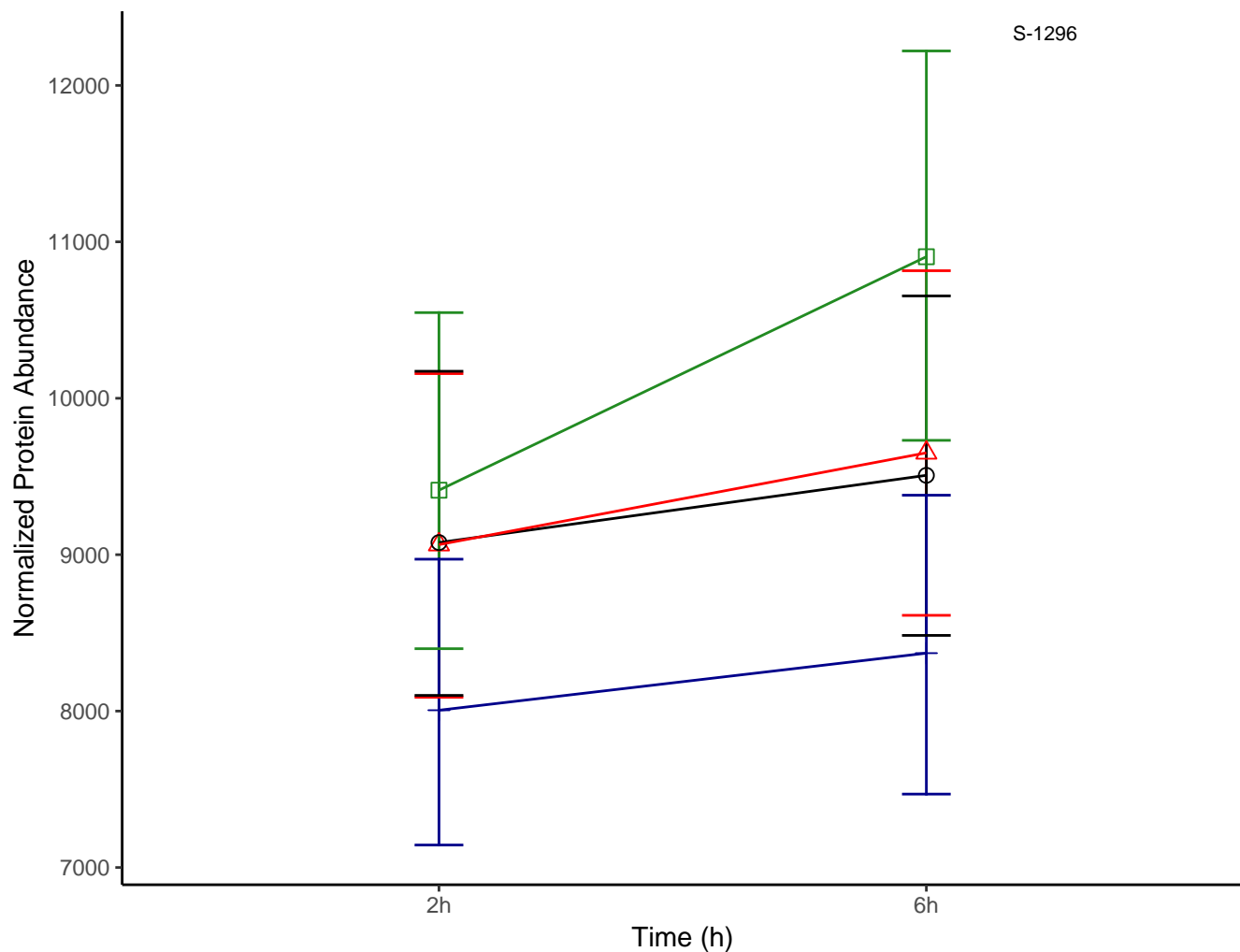
S-1295



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# QOX2\_STAAM

S-1296

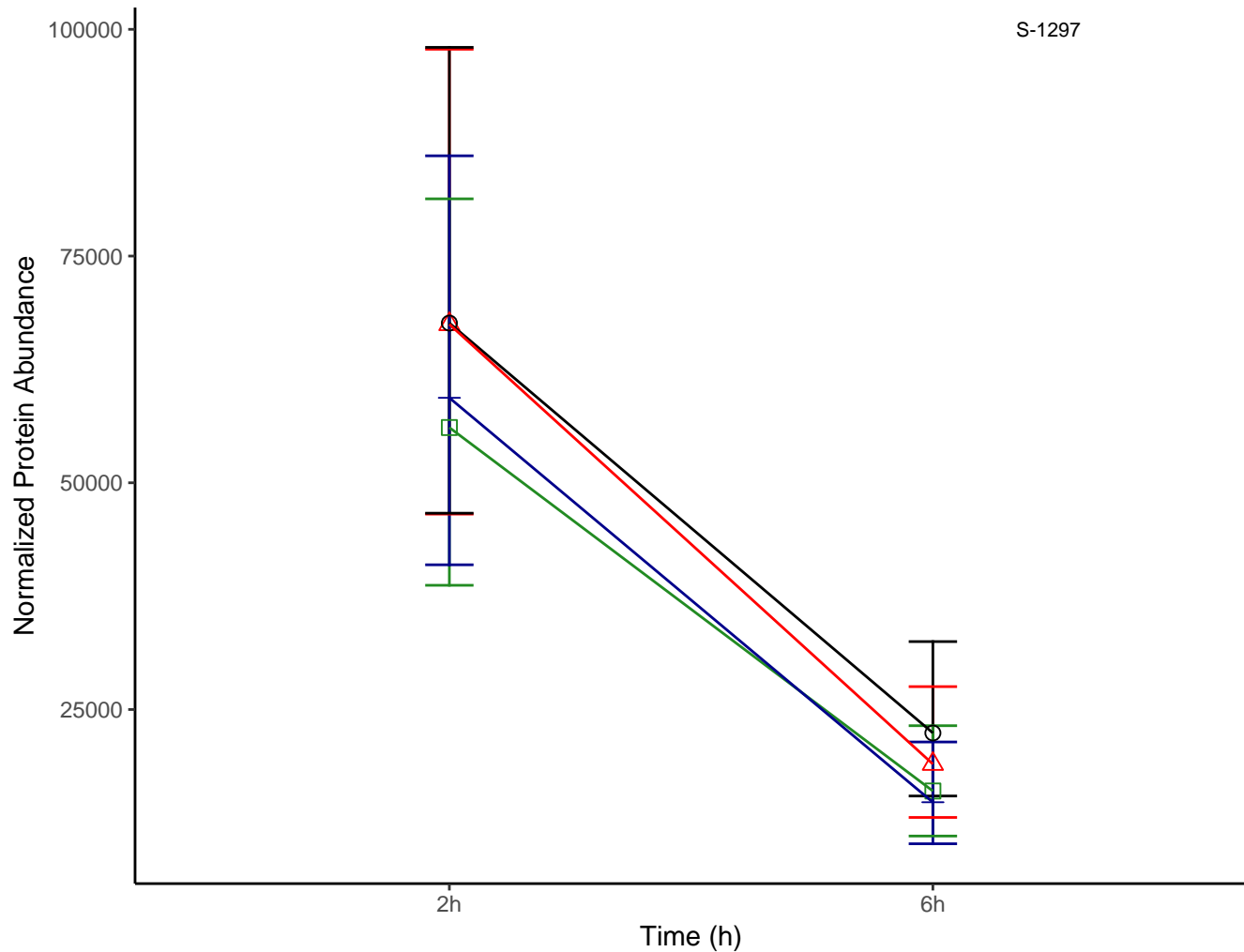


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# QUEA\_STAAM

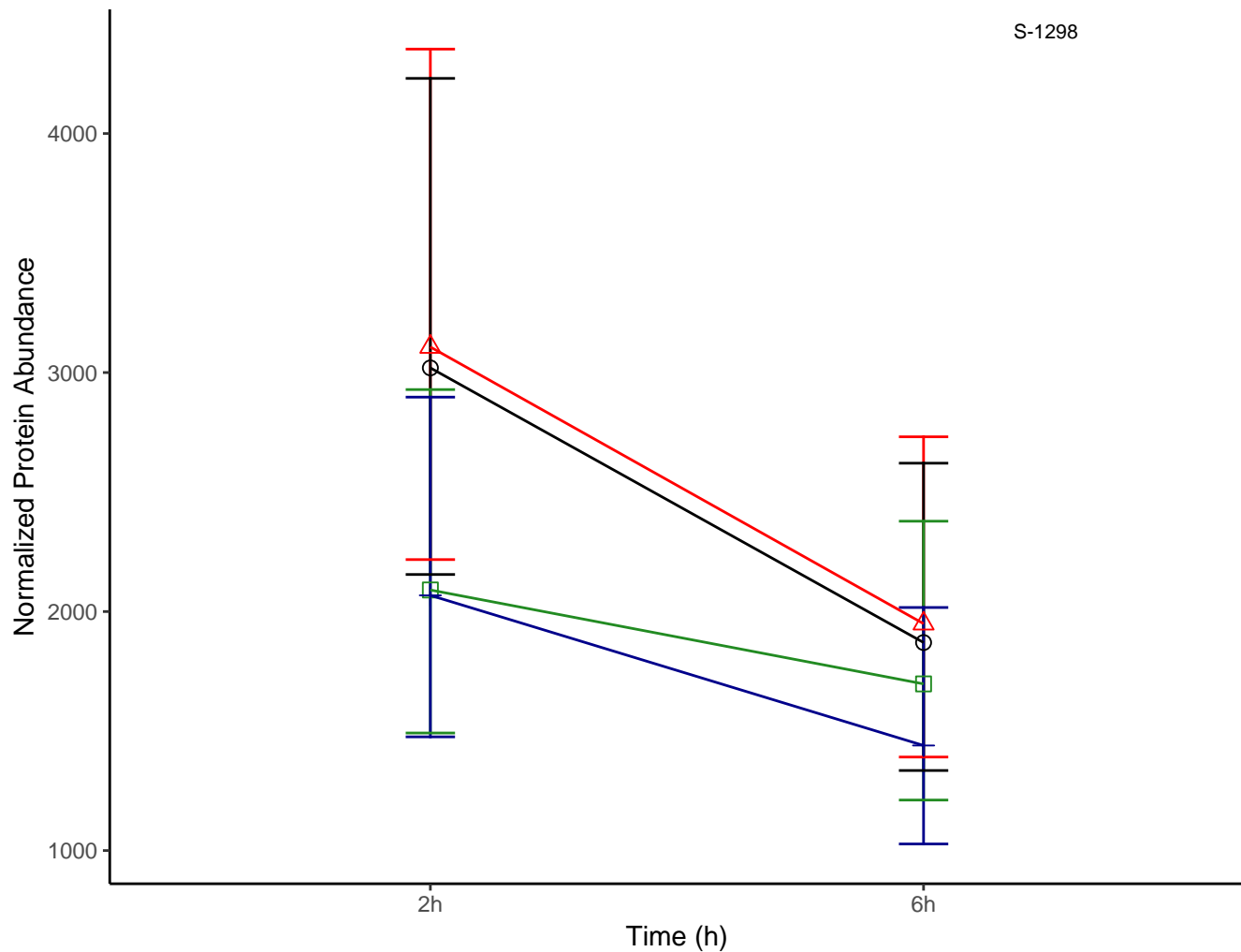
S-1297



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# QUEC\_STAAM

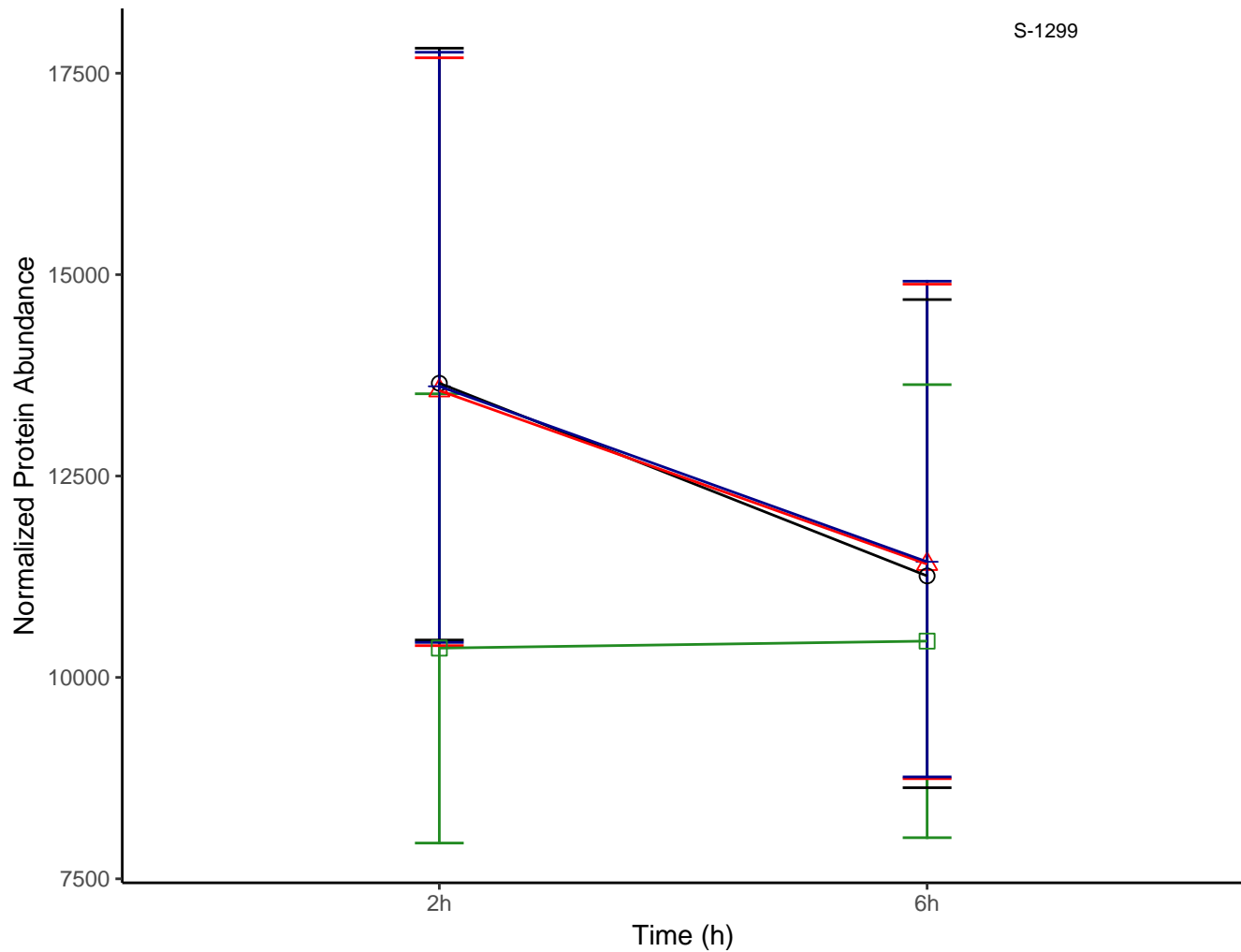
S-1298



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RBFA\_STAAM

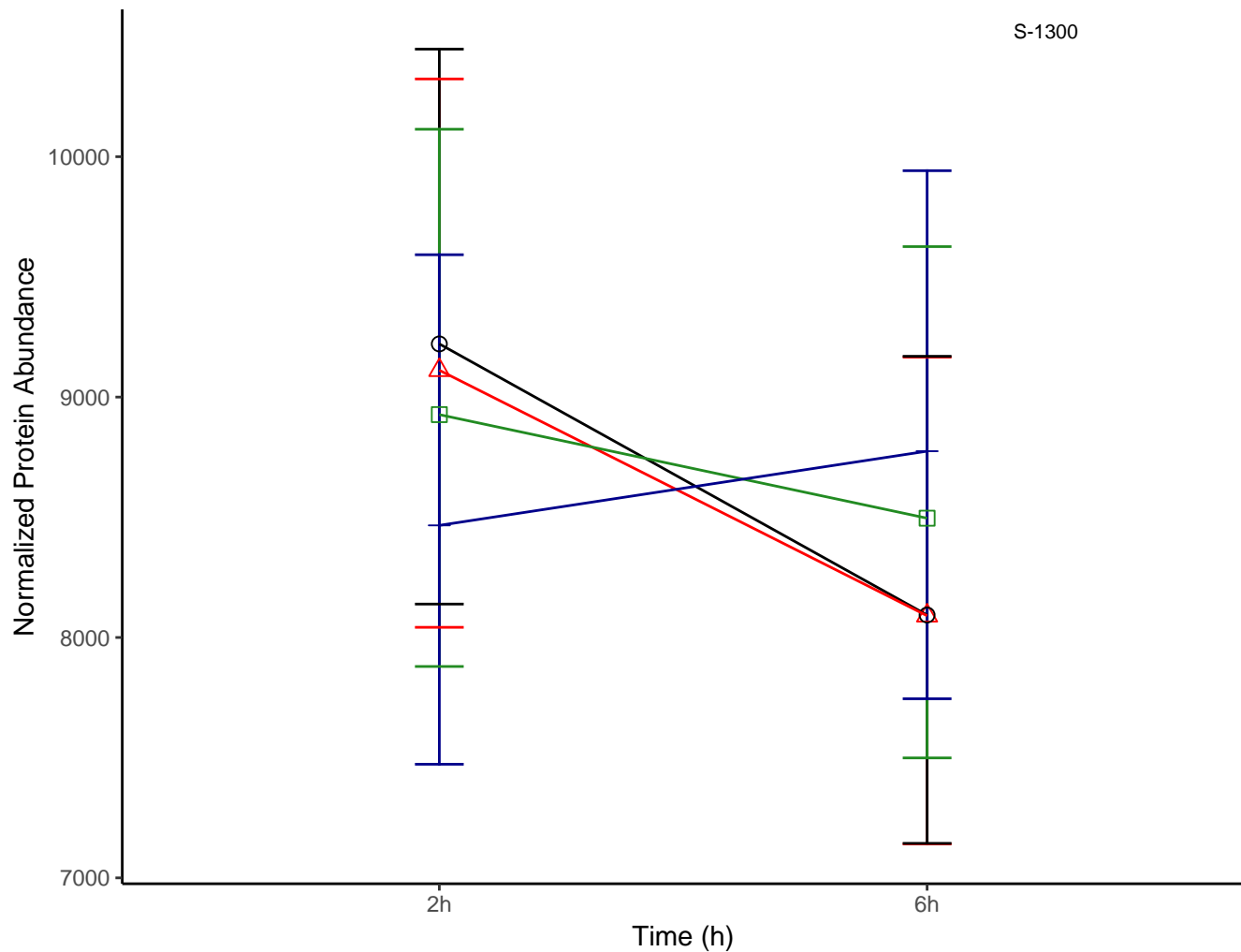
S-1299



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RECA\_STAAM

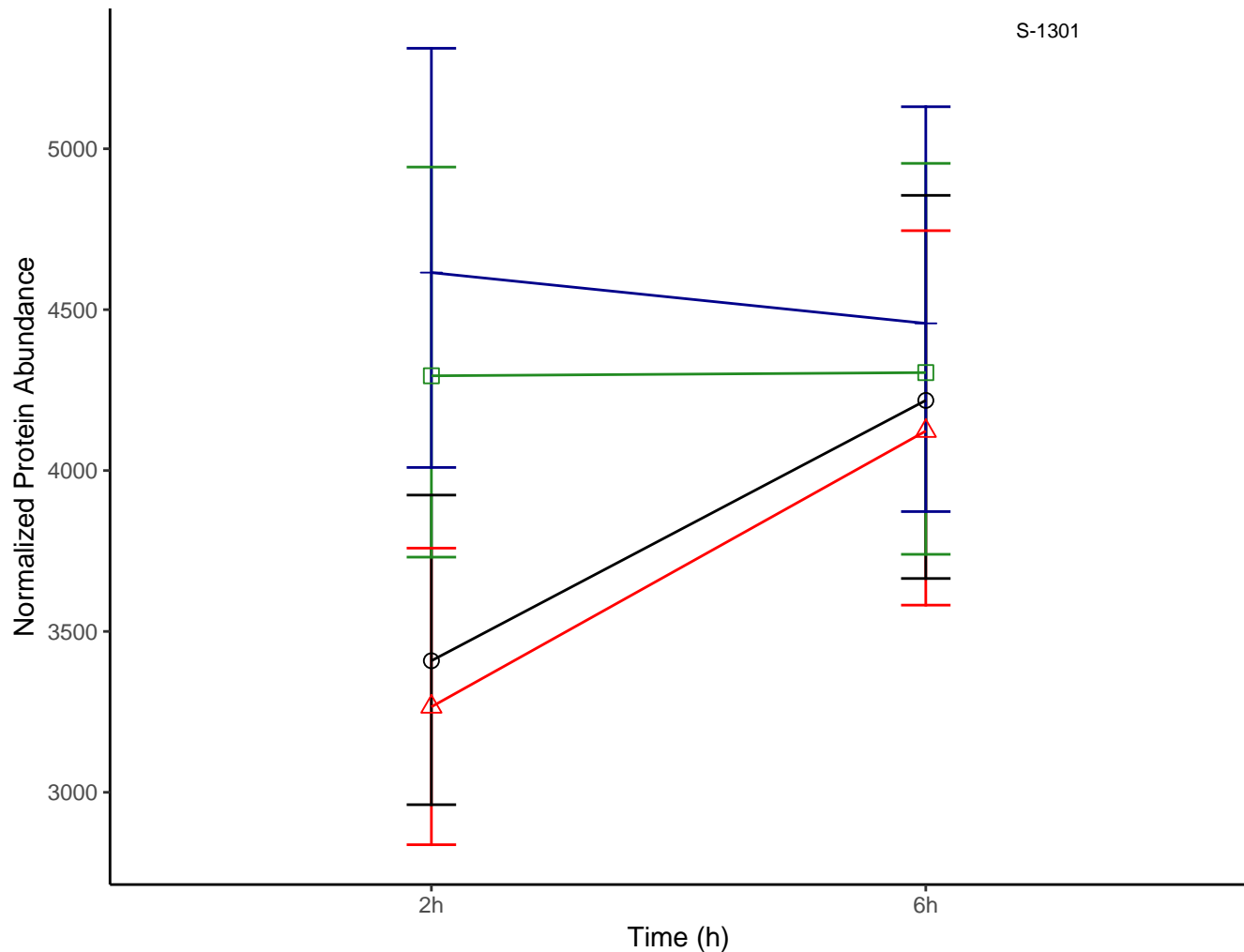
S-1300



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RELA\_STAAM

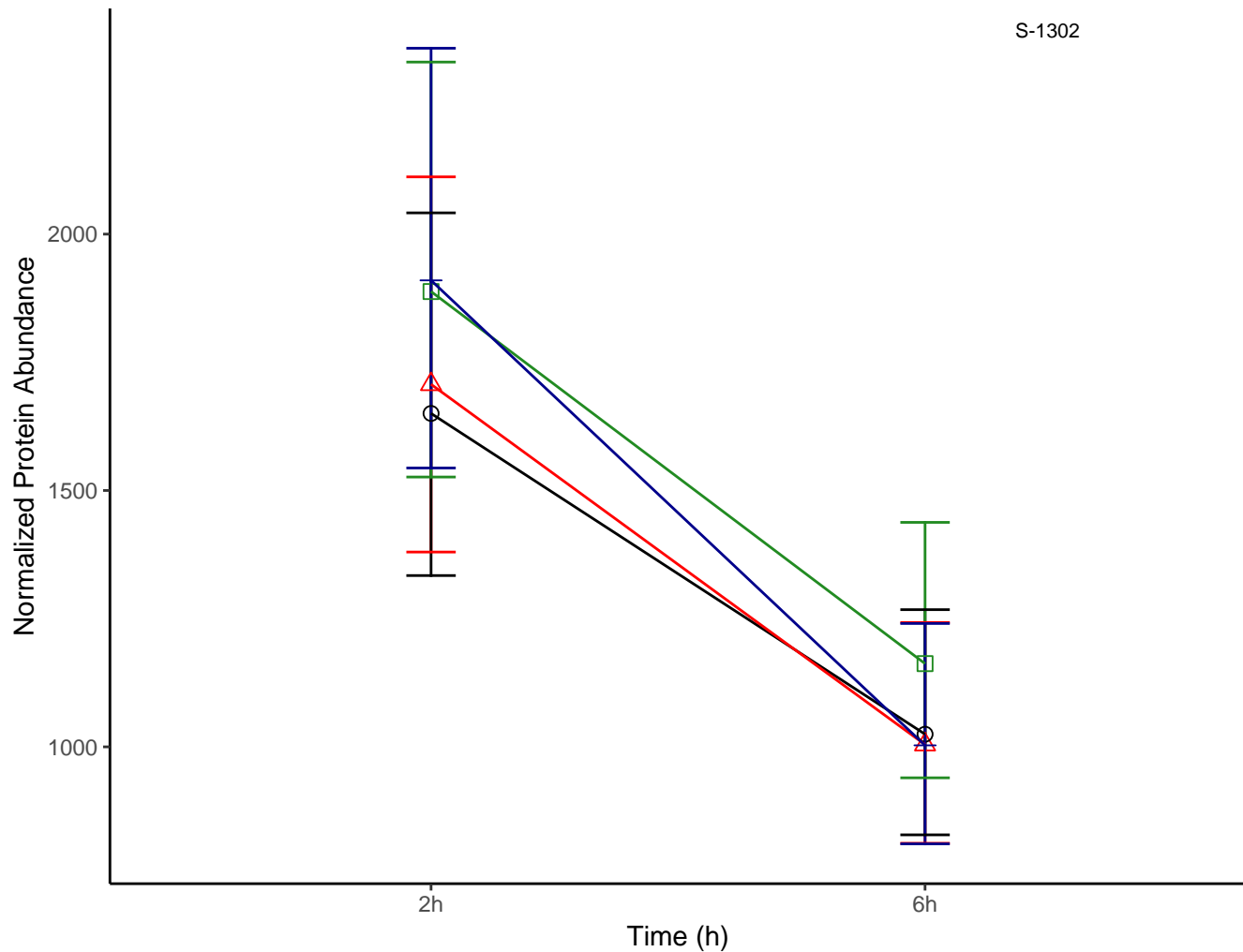
S-1301



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# REX\_STAAM

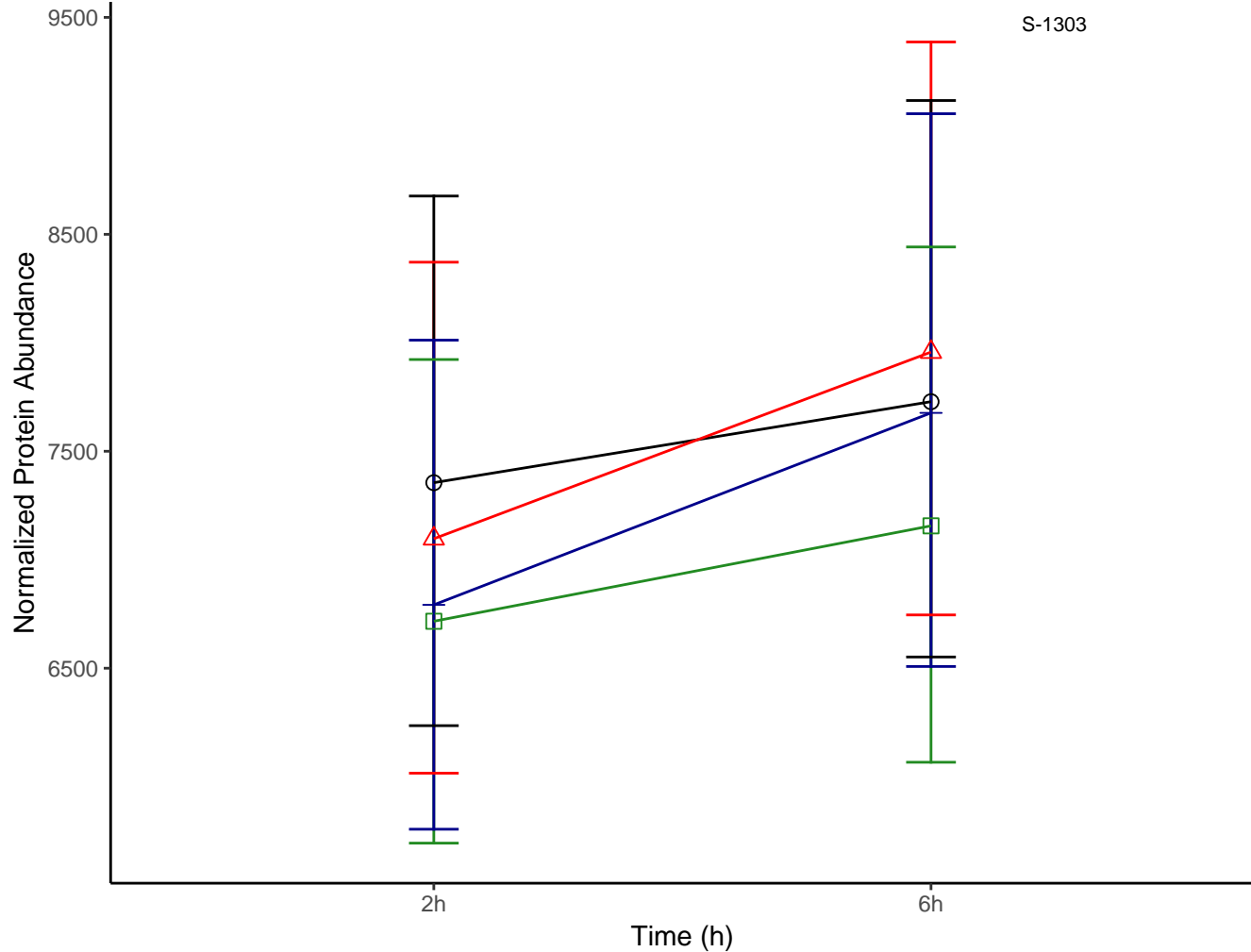
S-1302



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## RF1\_STAAM

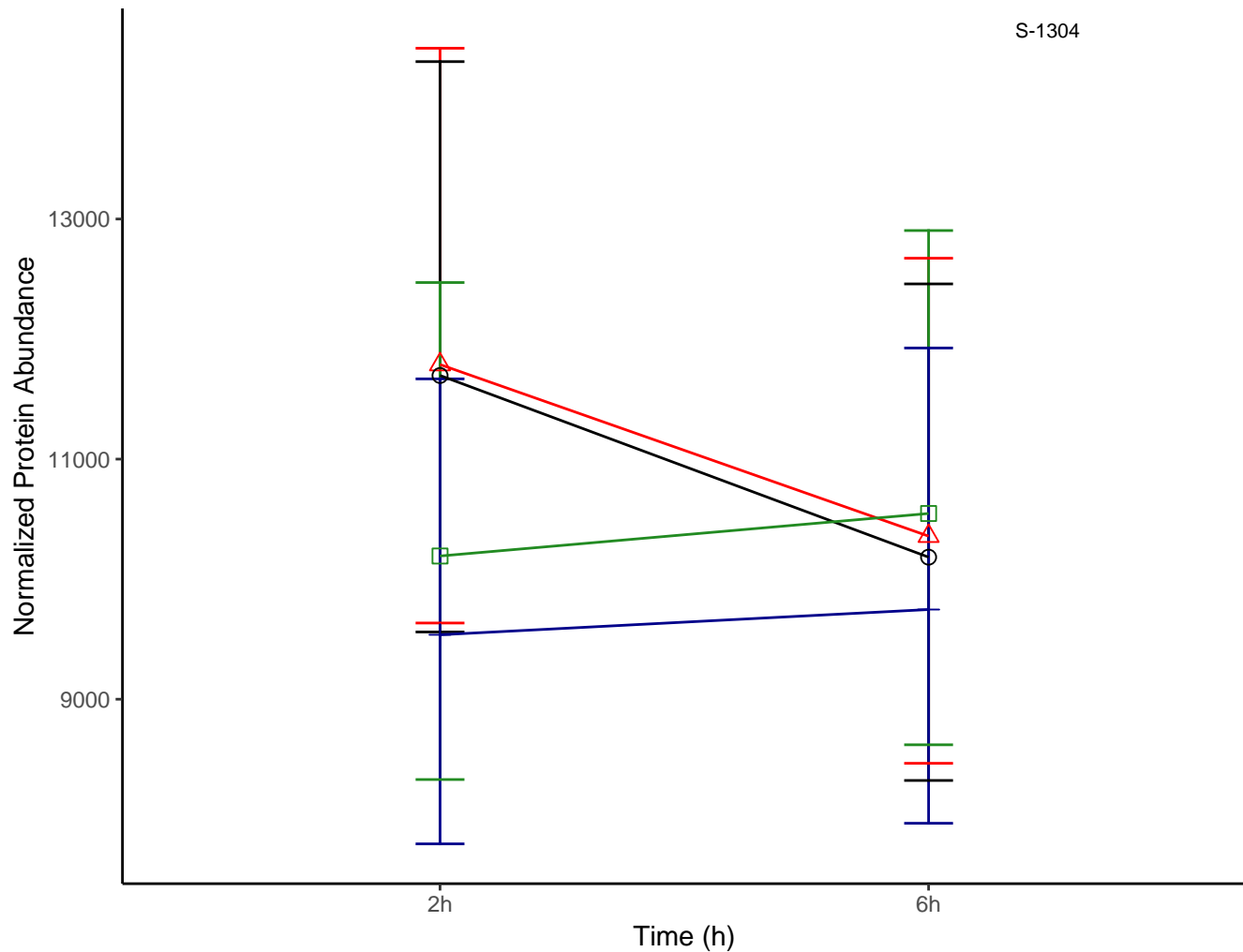
S-1303



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## RIBBA\_STAAM

S-1304

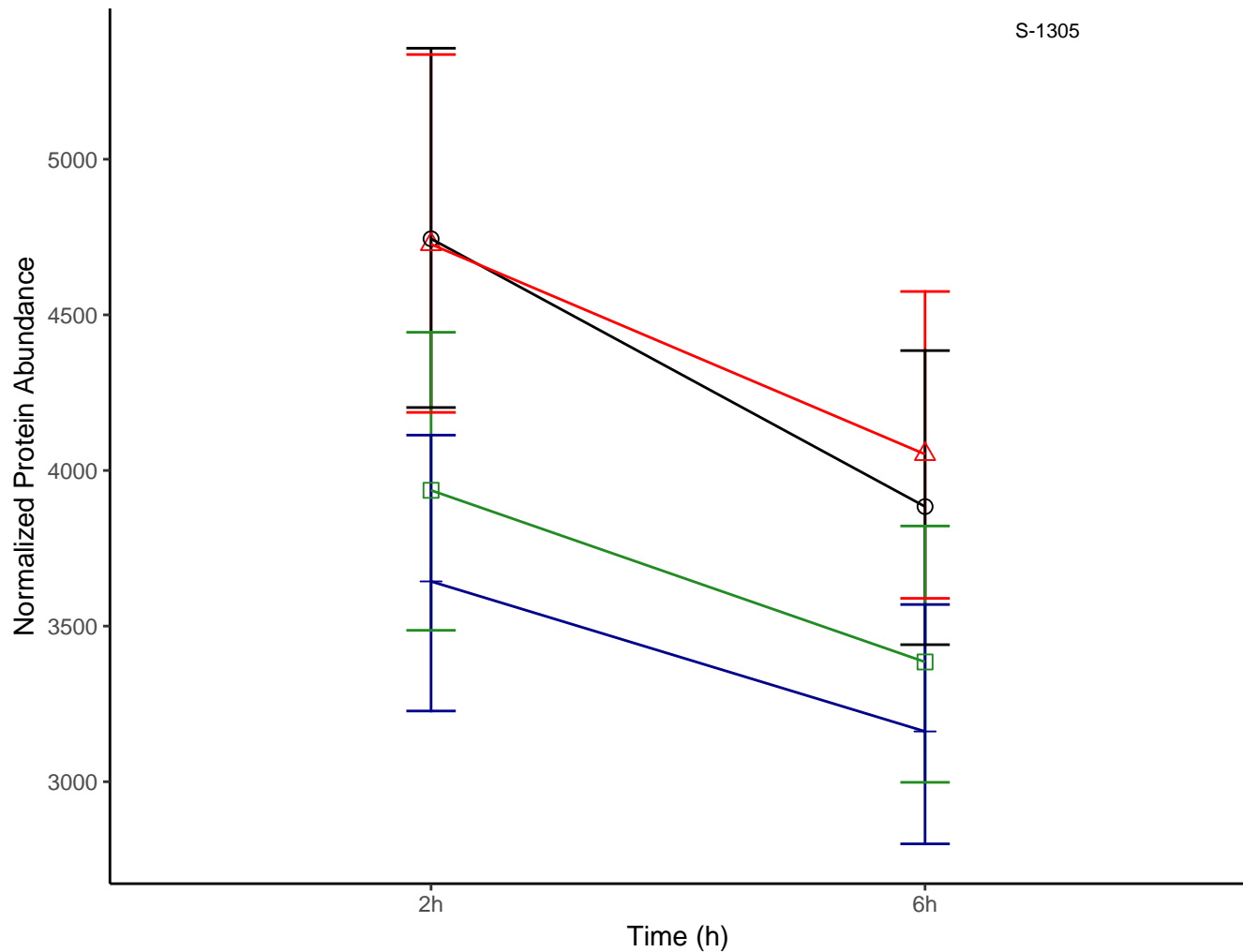


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RIMM\_STAAM

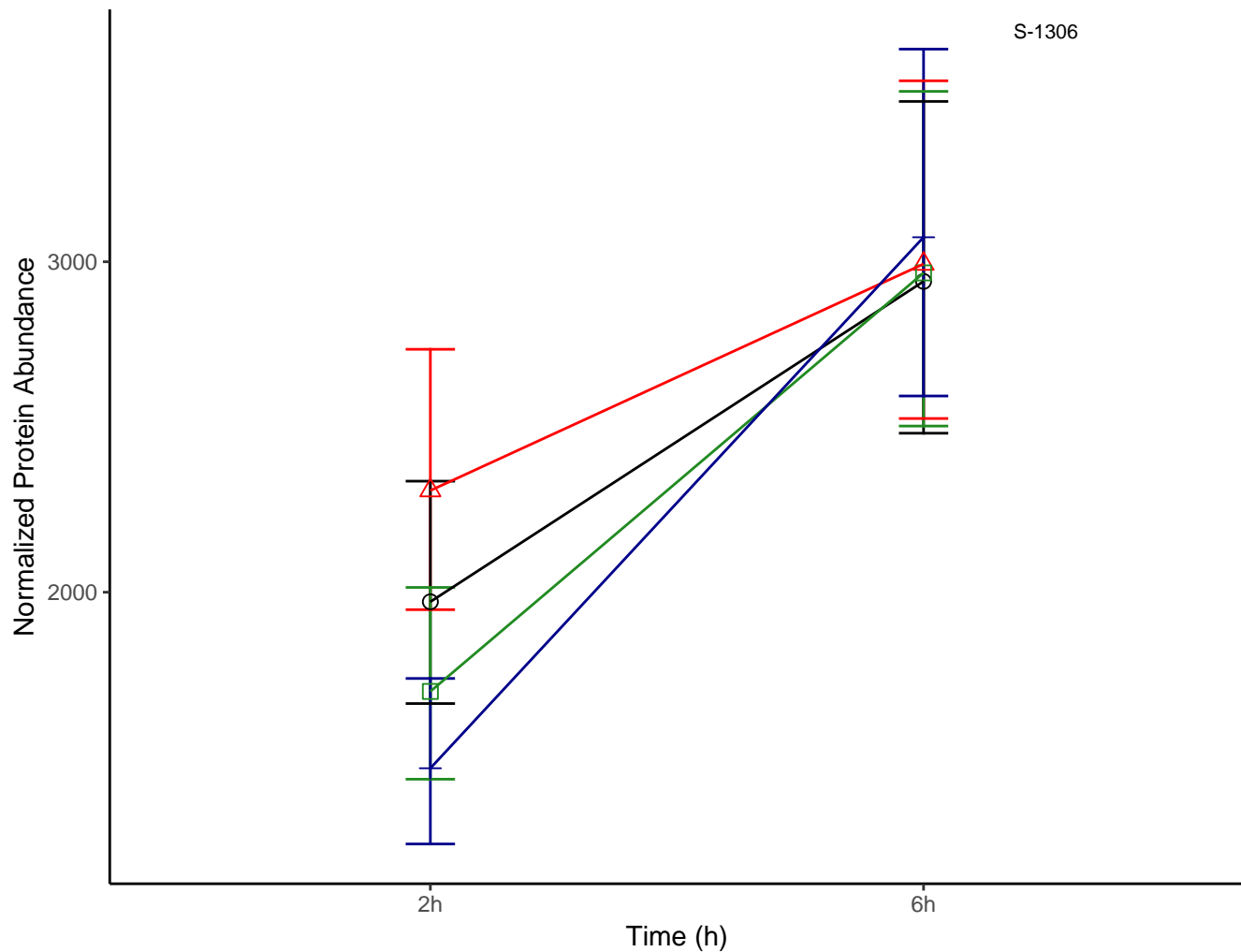
S-1305



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## RISB\_STAAM

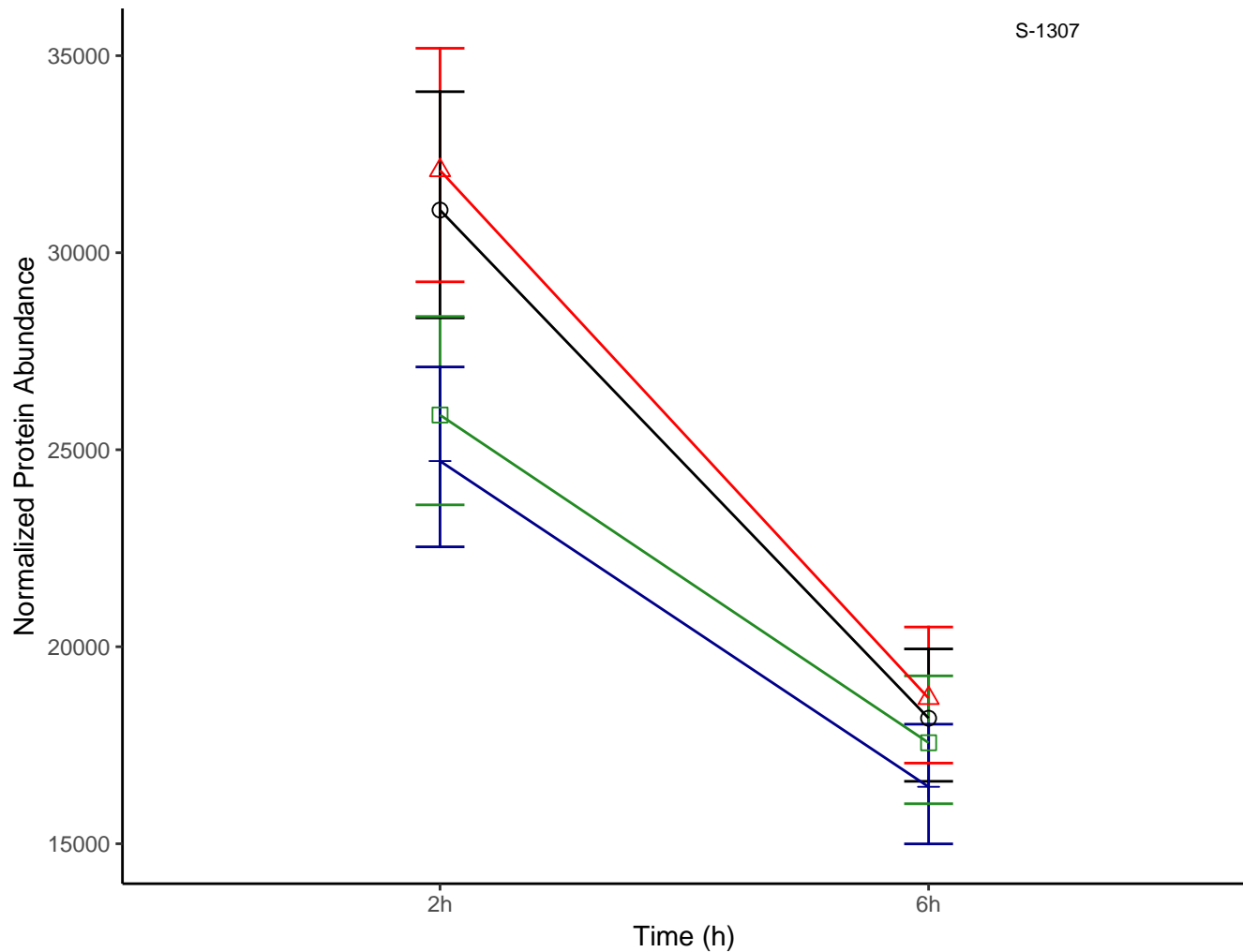
S-1306



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL1\_STAAM

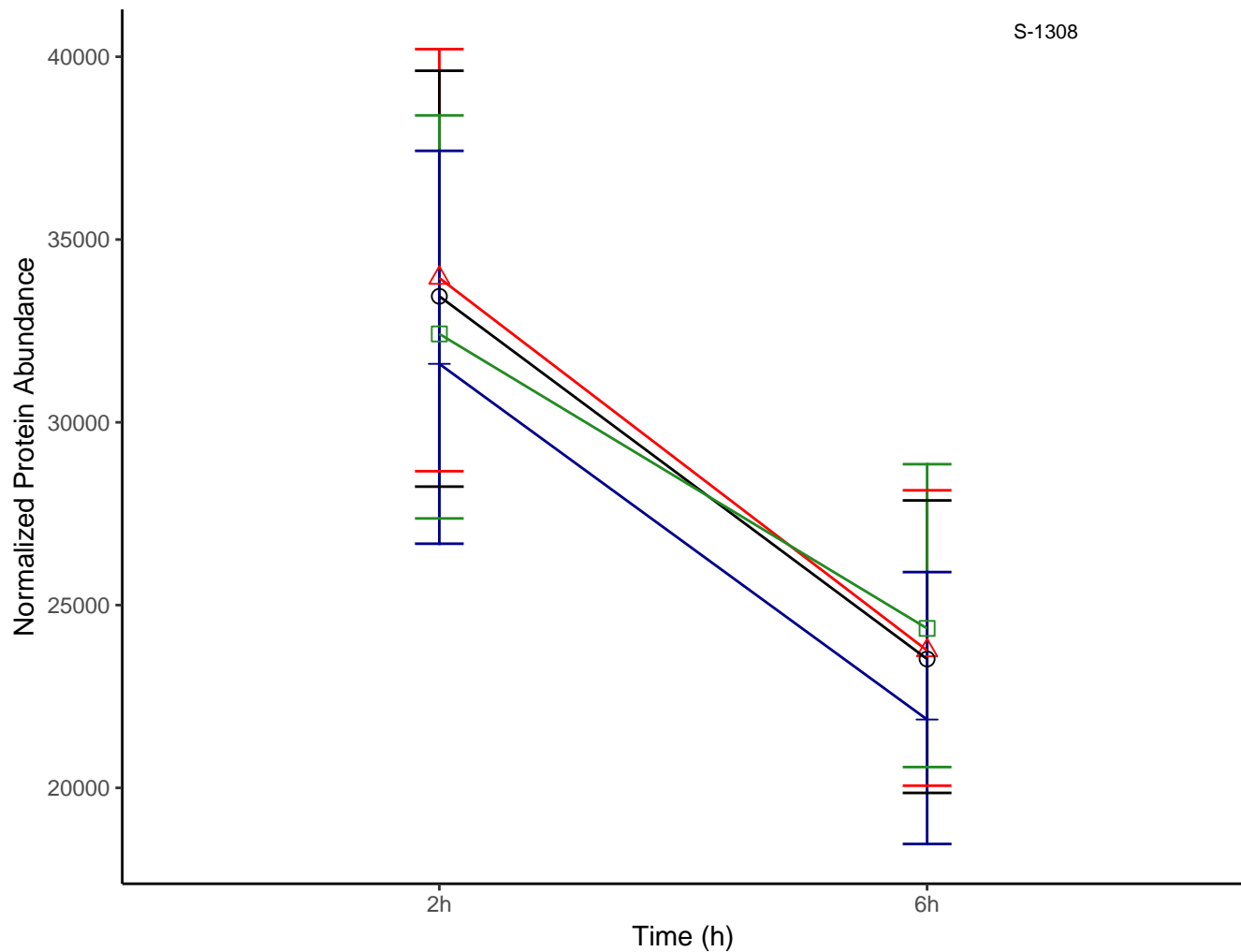
S-1307



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL10\_STAAM

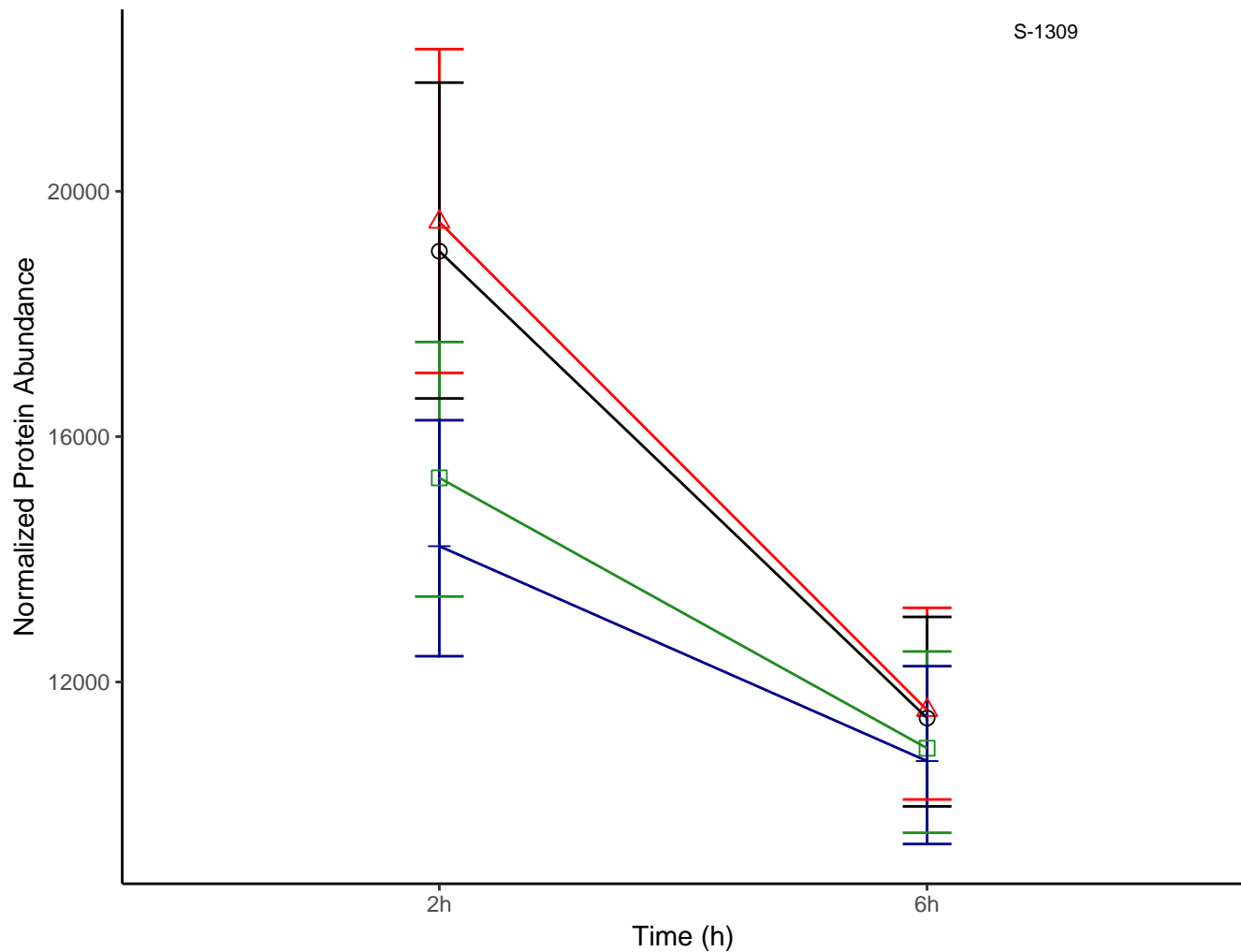
S-1308



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RL11\_STAAM

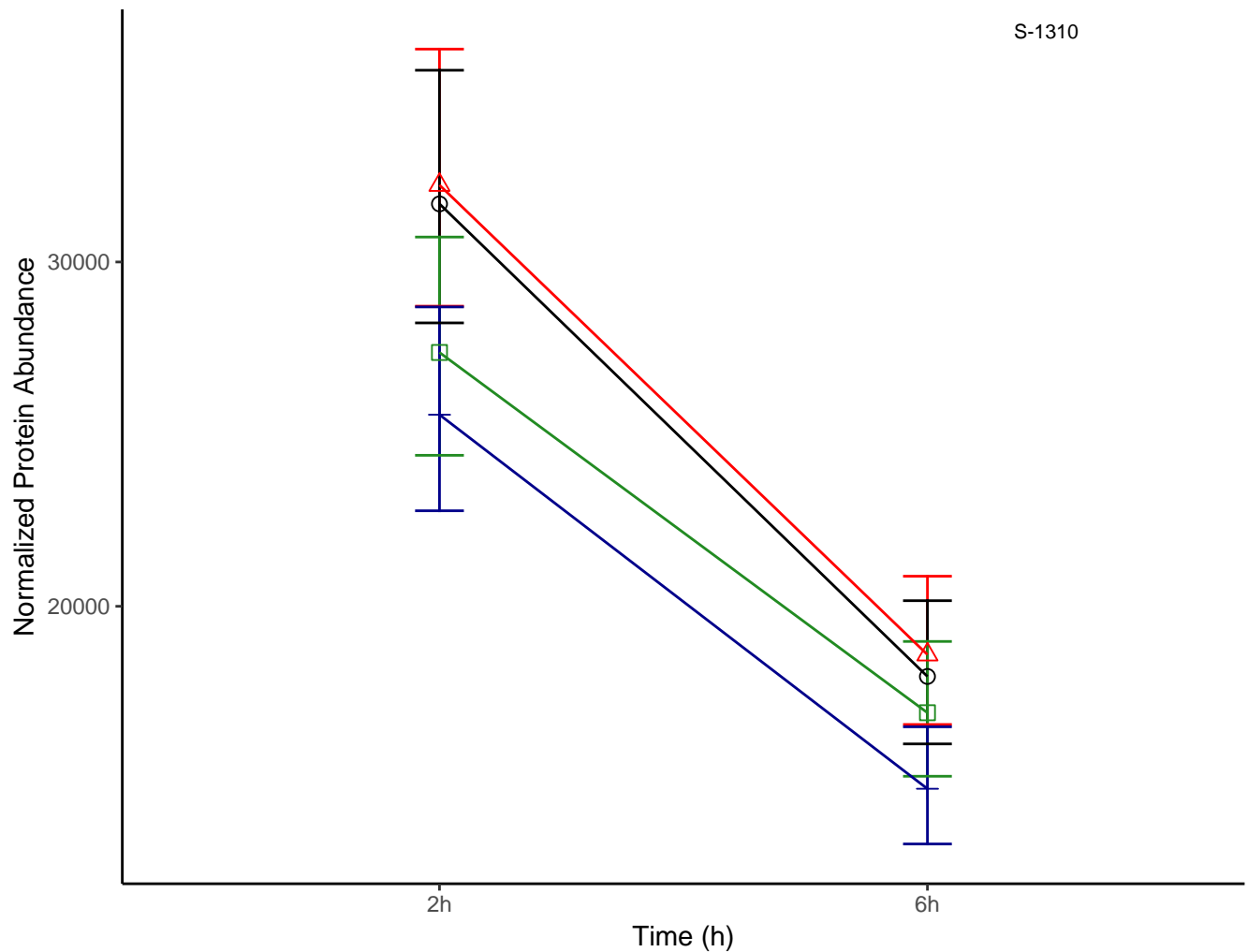
S-1309



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL13\_STAAM

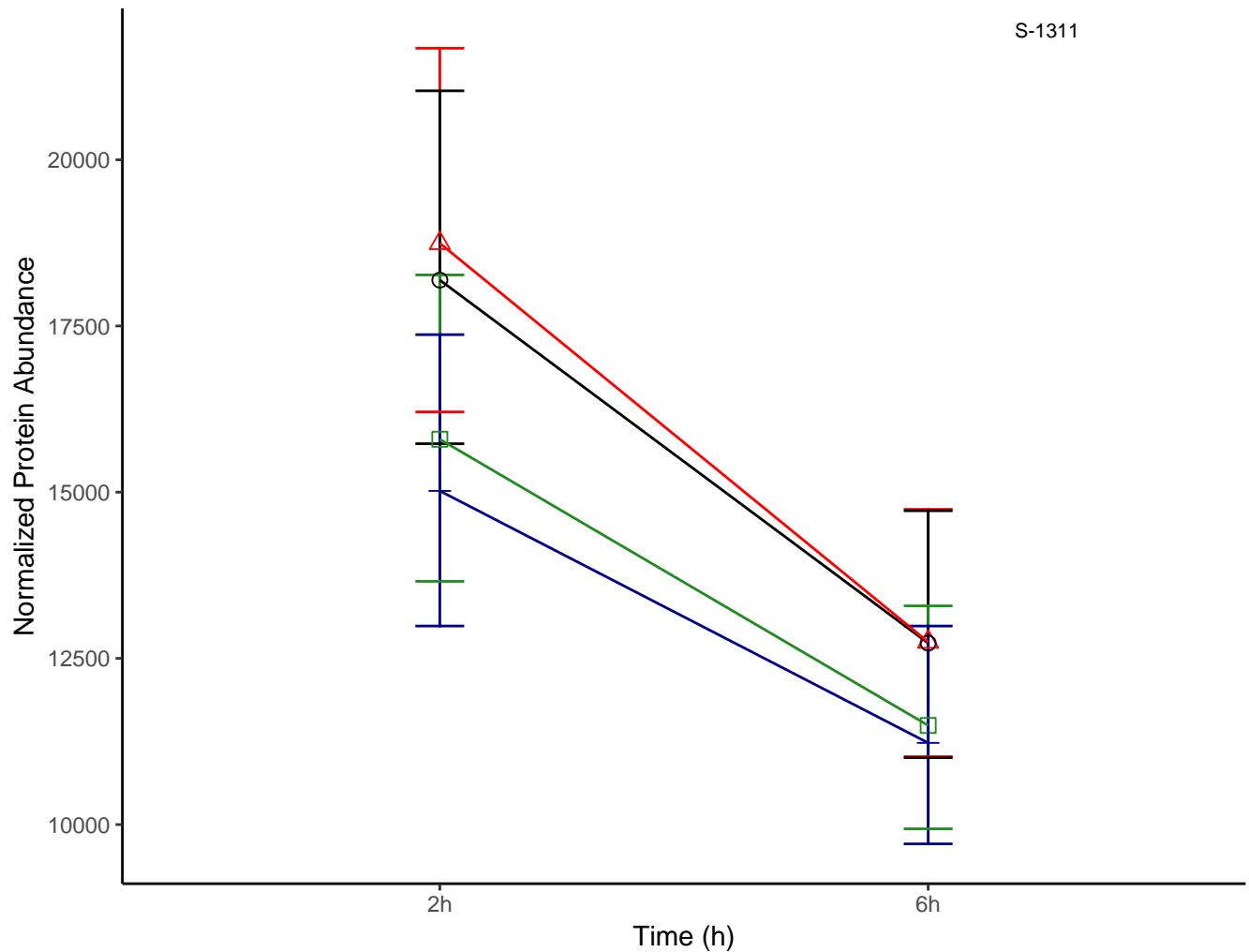
S-1310



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL14\_STAAM

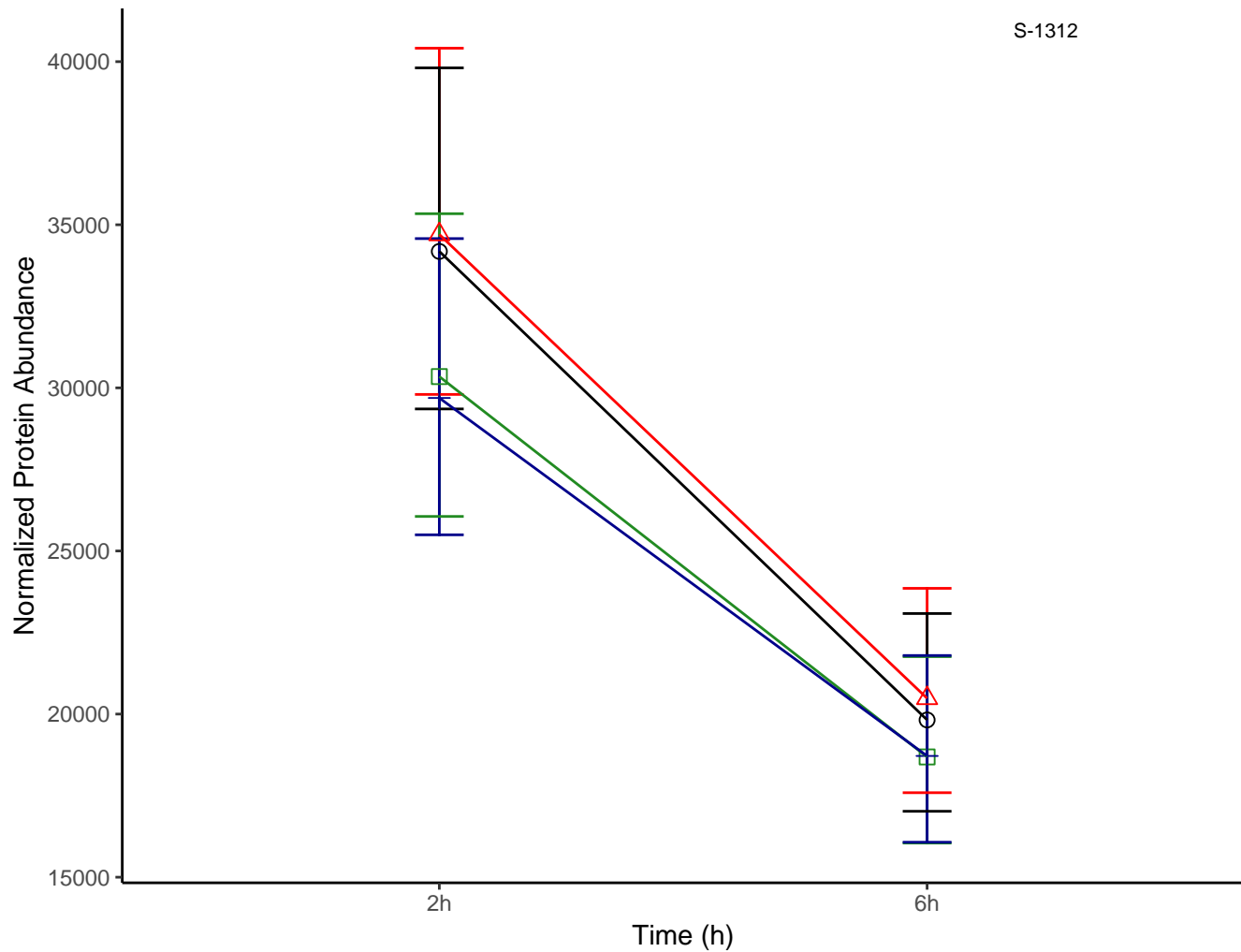
S-1311



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL15\_STAAM

S-1312

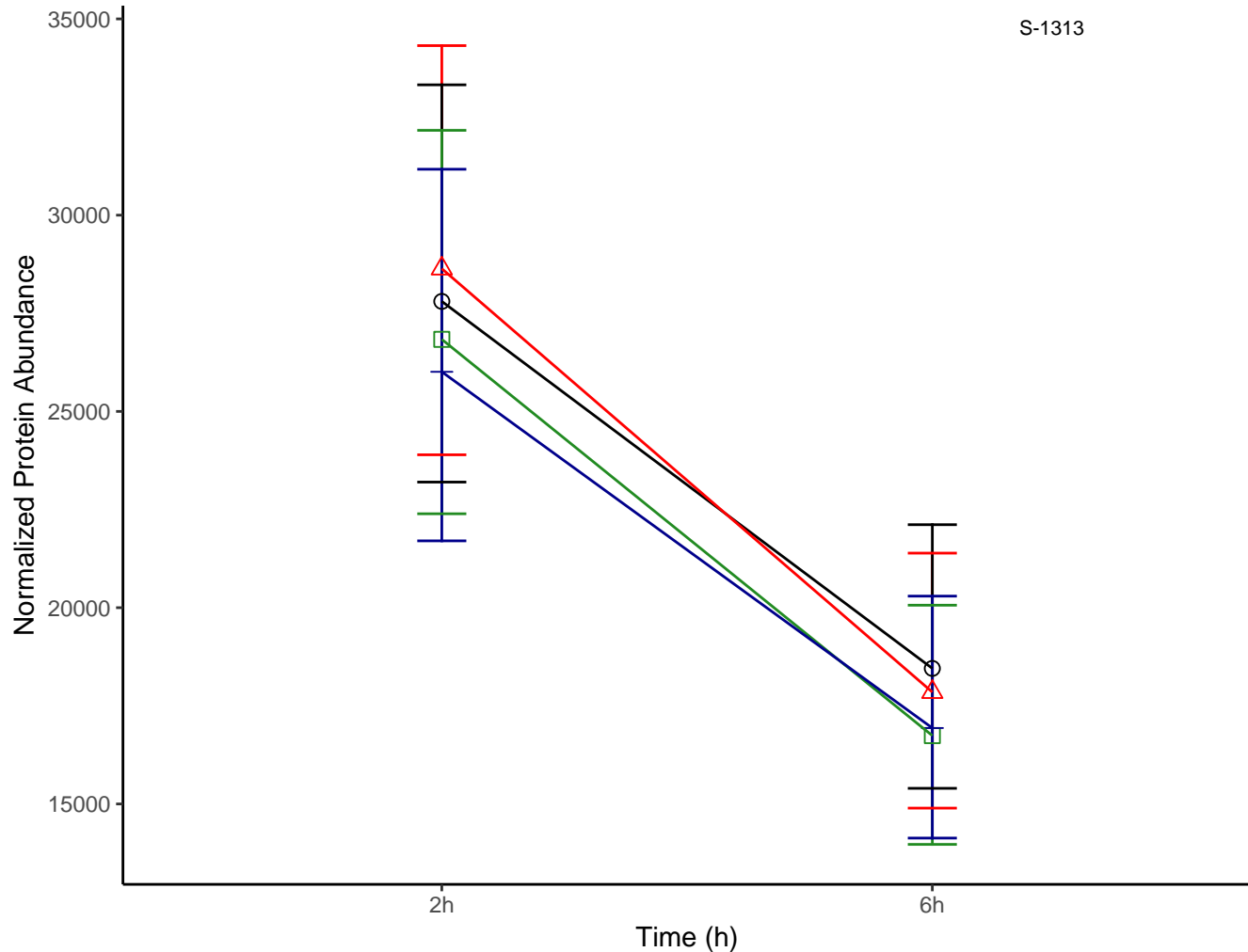


- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*



## RL16\_STAAM

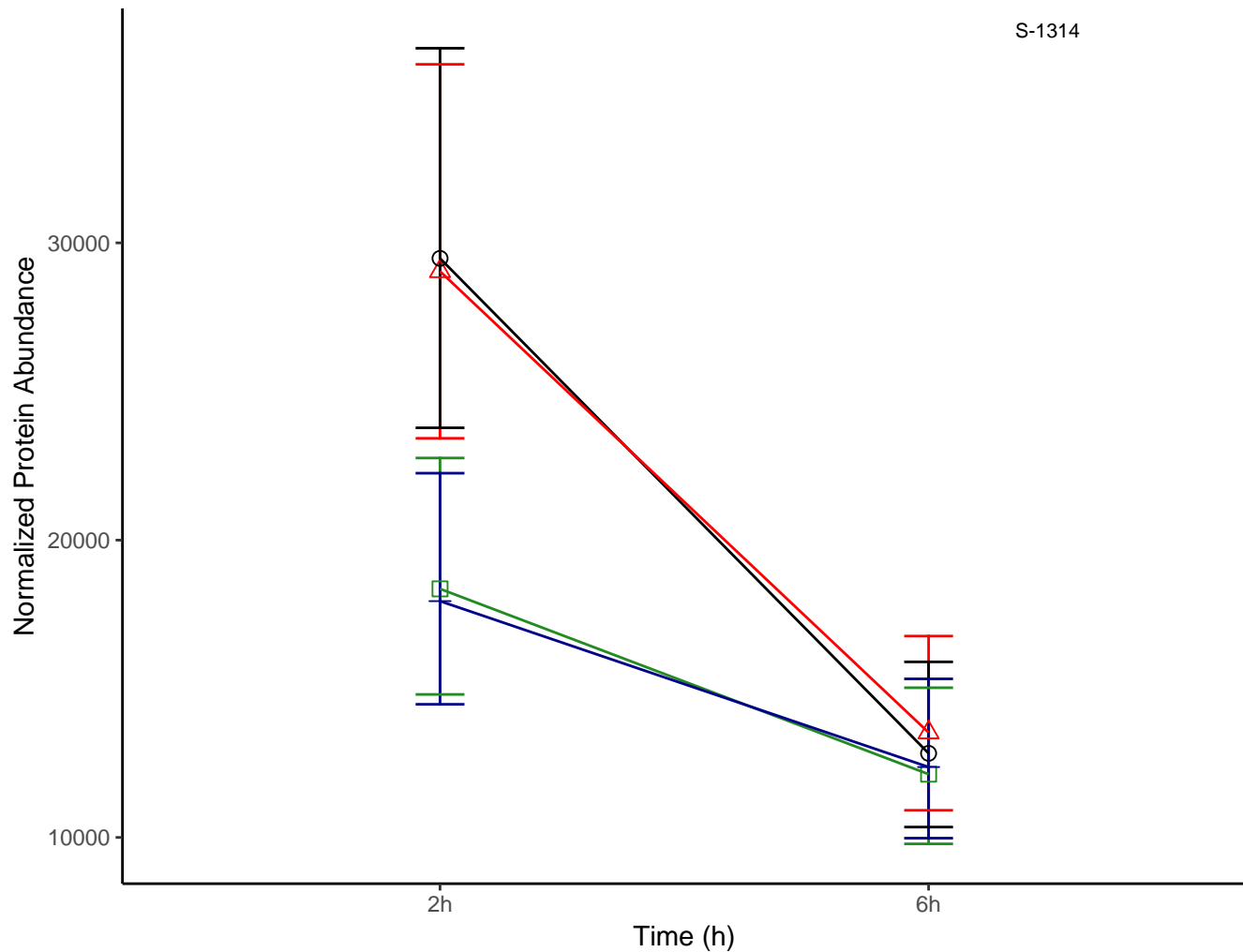
S-1313



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL17\_STAAM

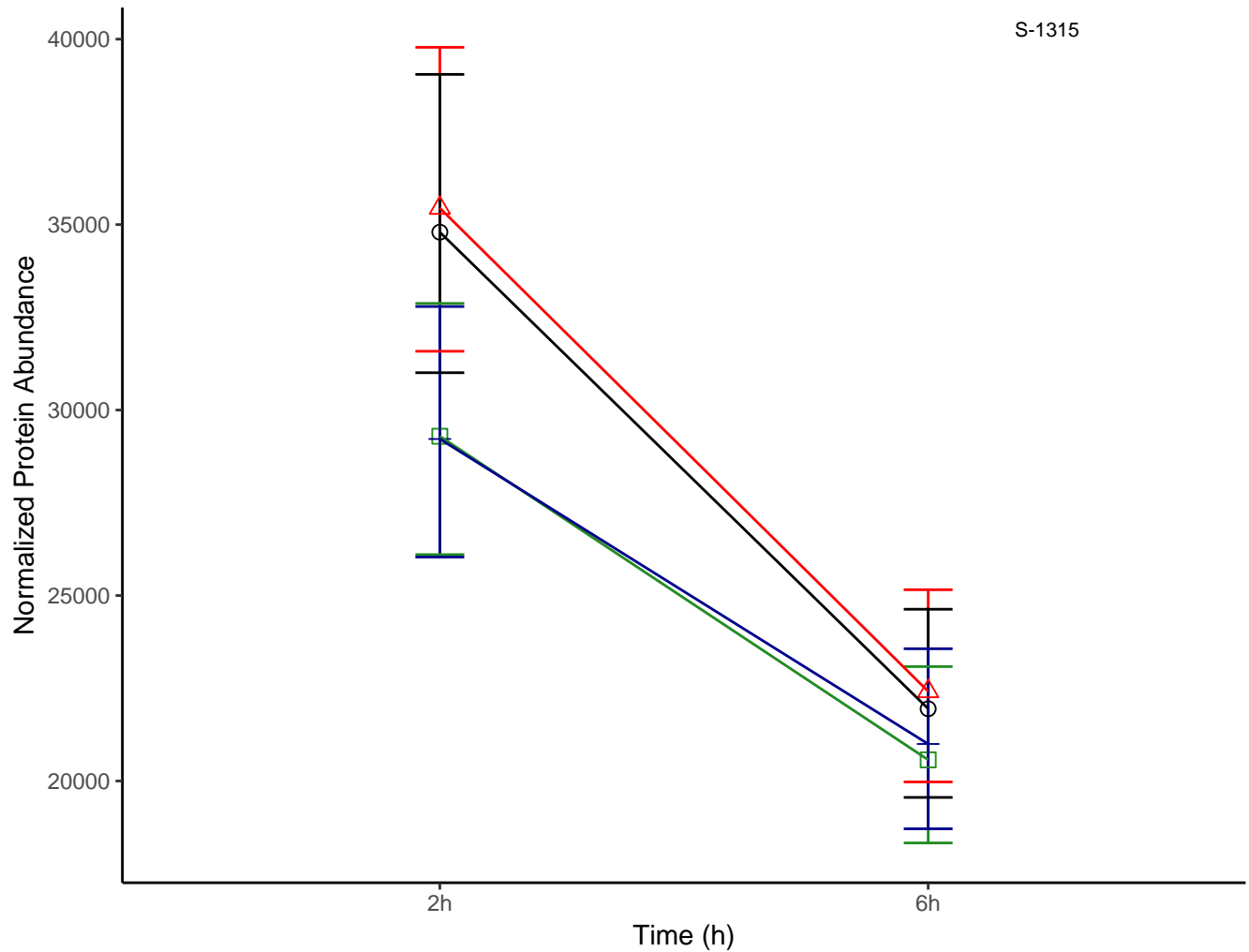
S-1314



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL18\_STAAM

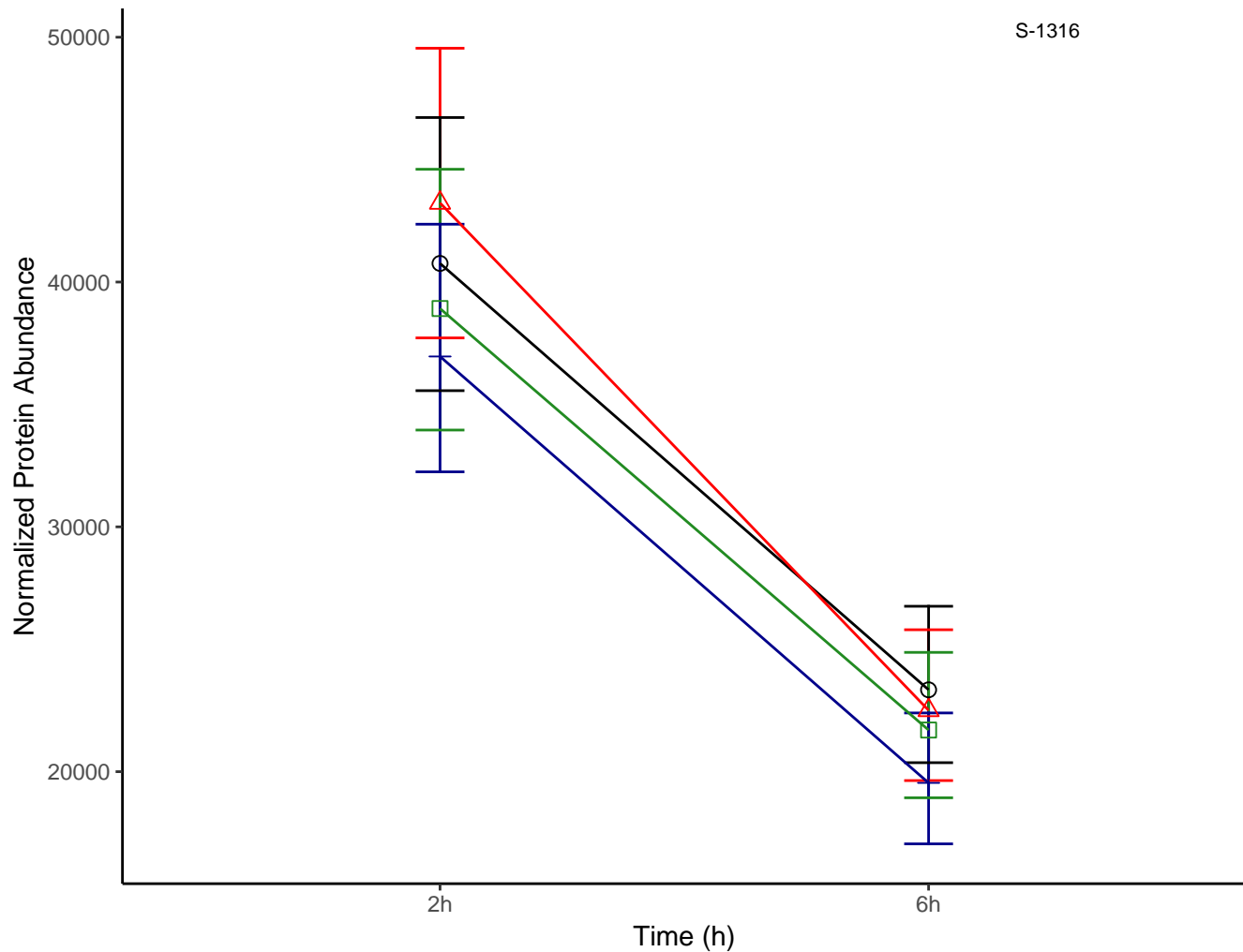
S-1315



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RL19\_STAAM

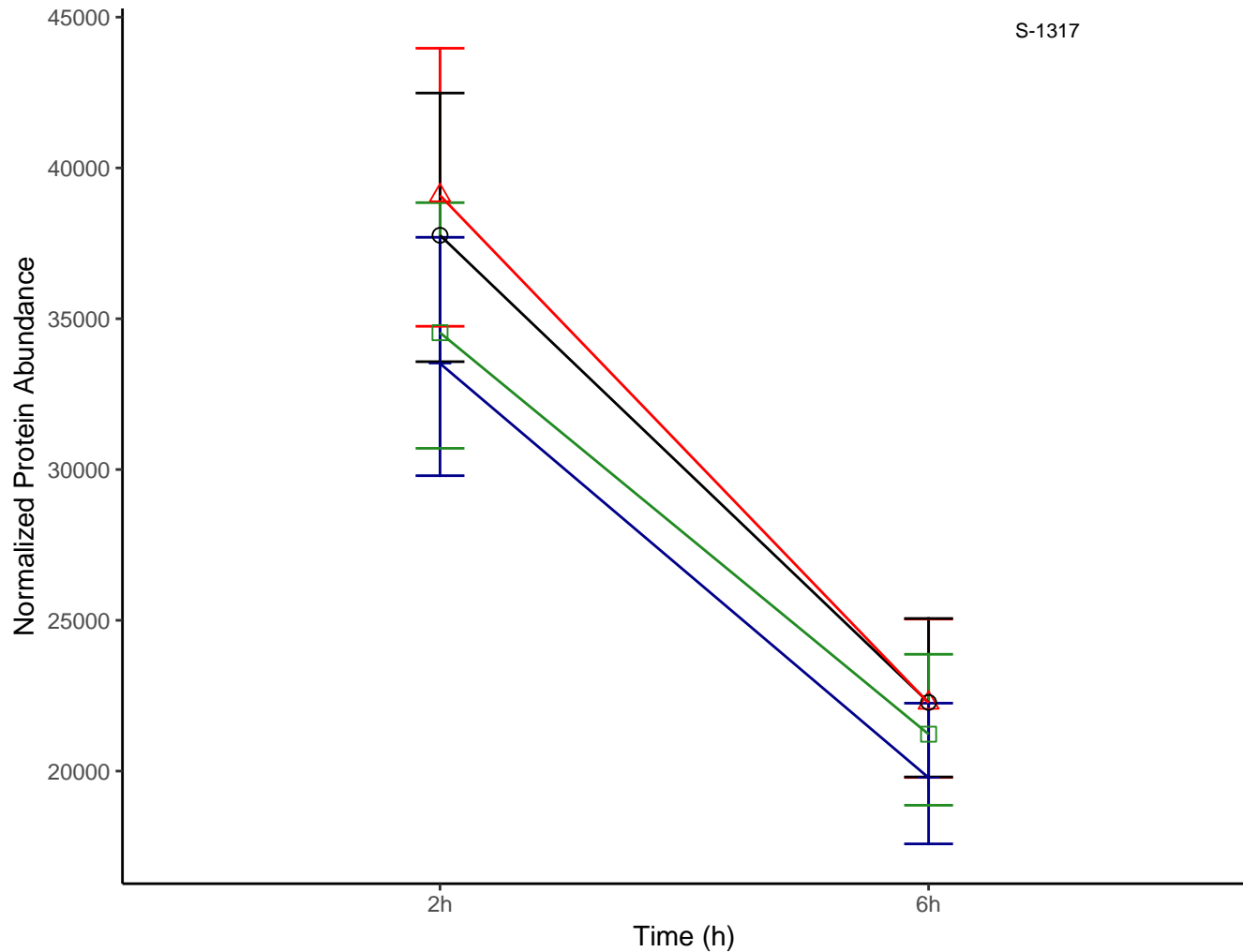
S-1316



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL2\_STAAM

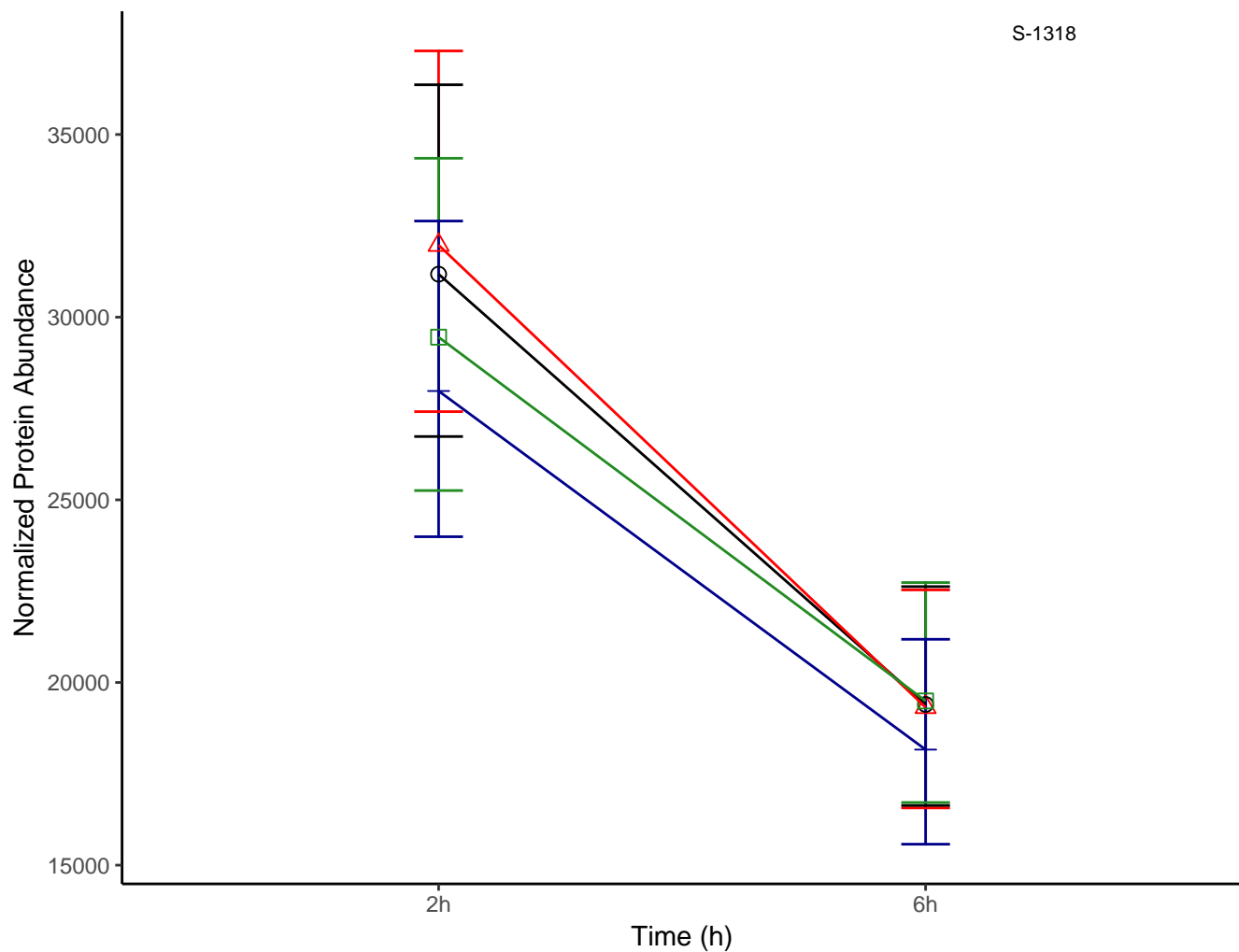
S-1317



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL20\_STAAM

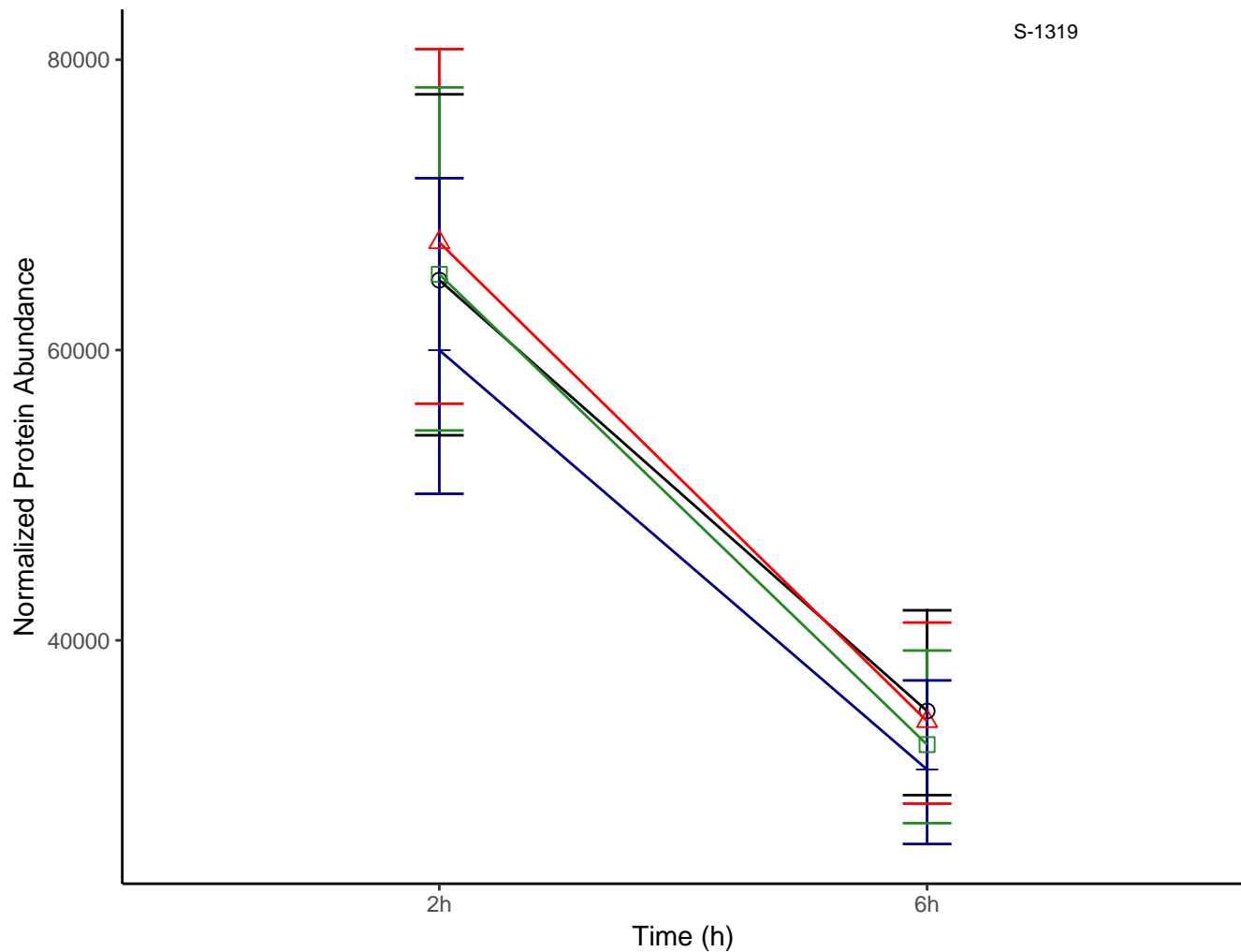
S-1318



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

## RL21\_STAAM

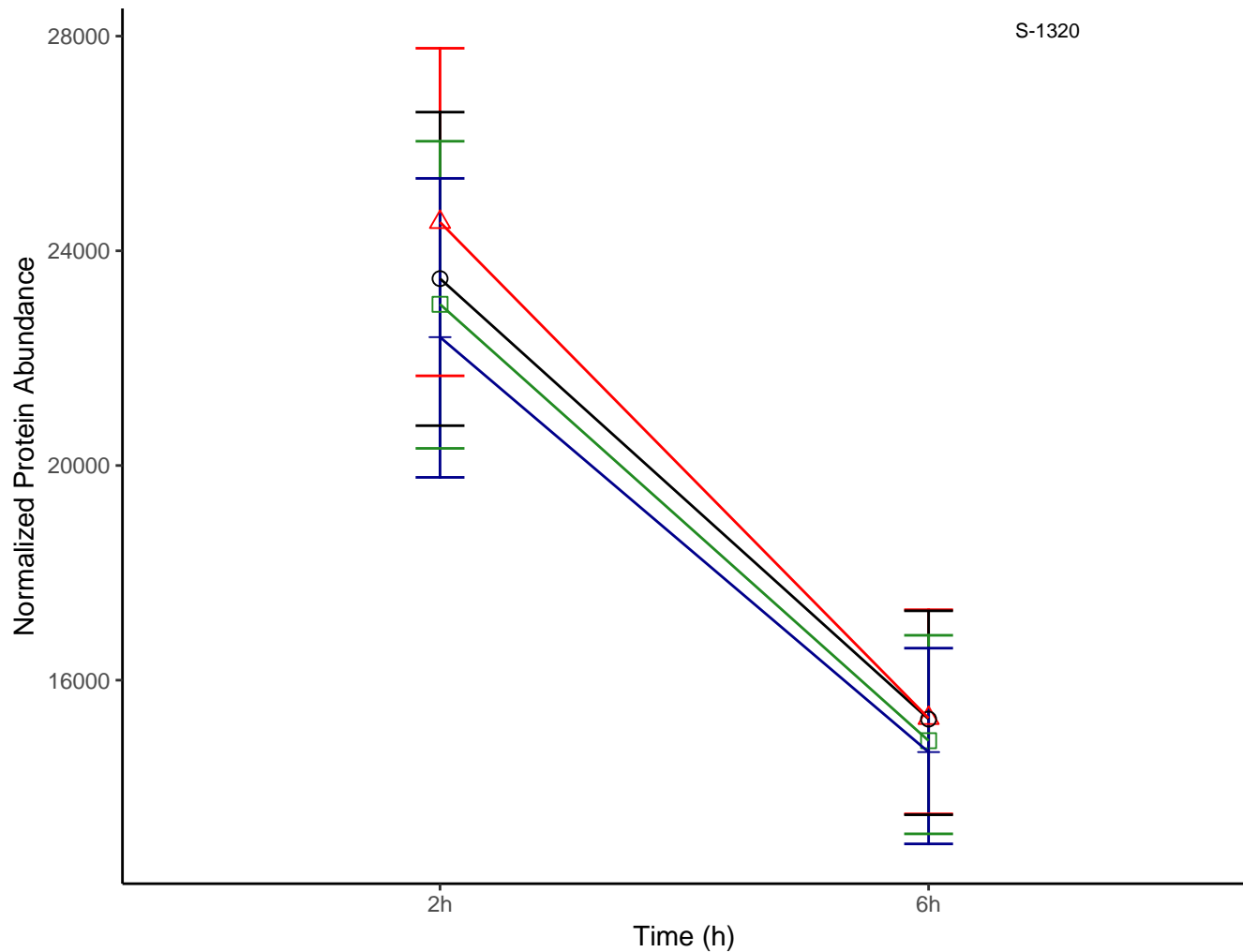
S-1319



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RL22\_STAAM

S-1320

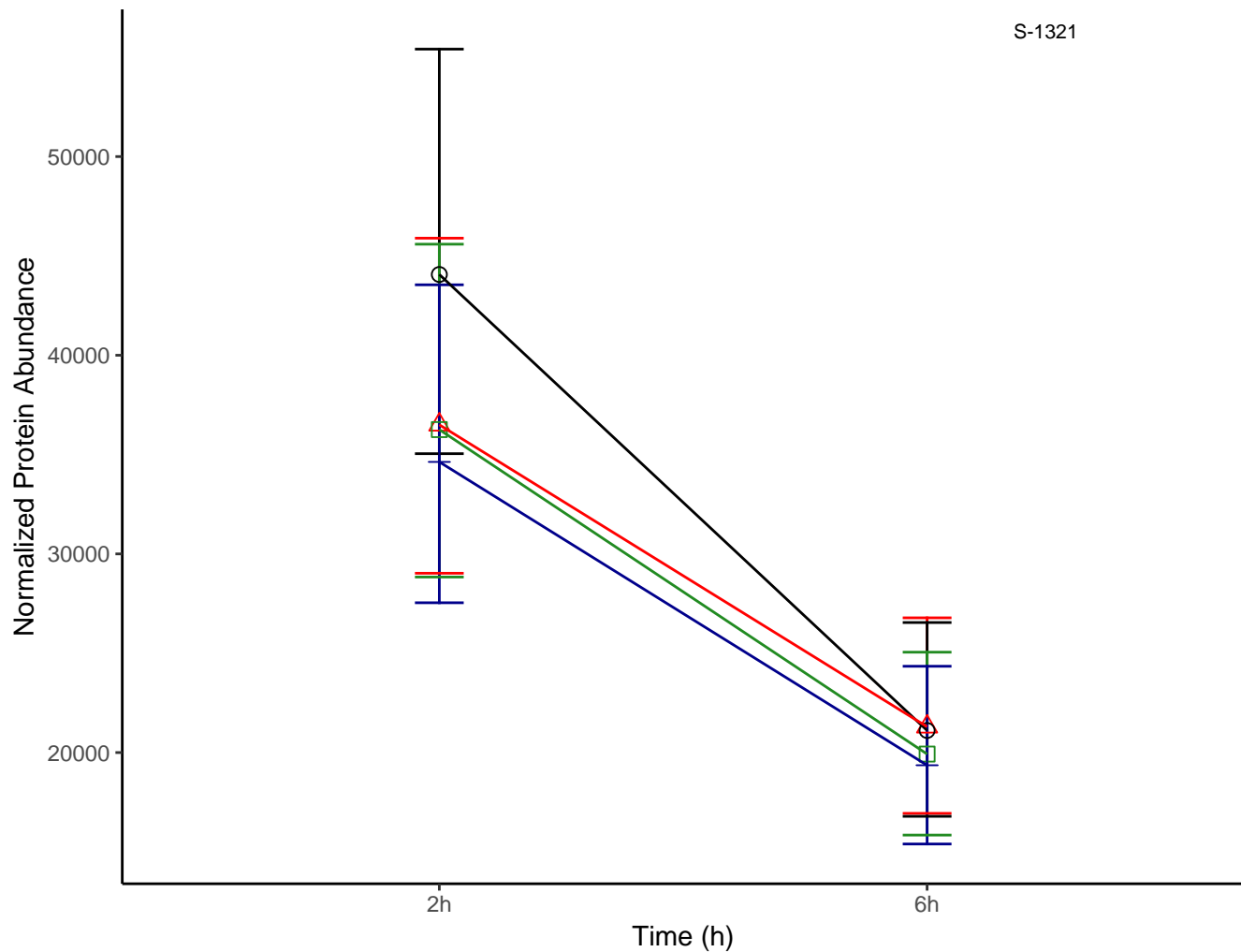


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## RL23\_STAAM

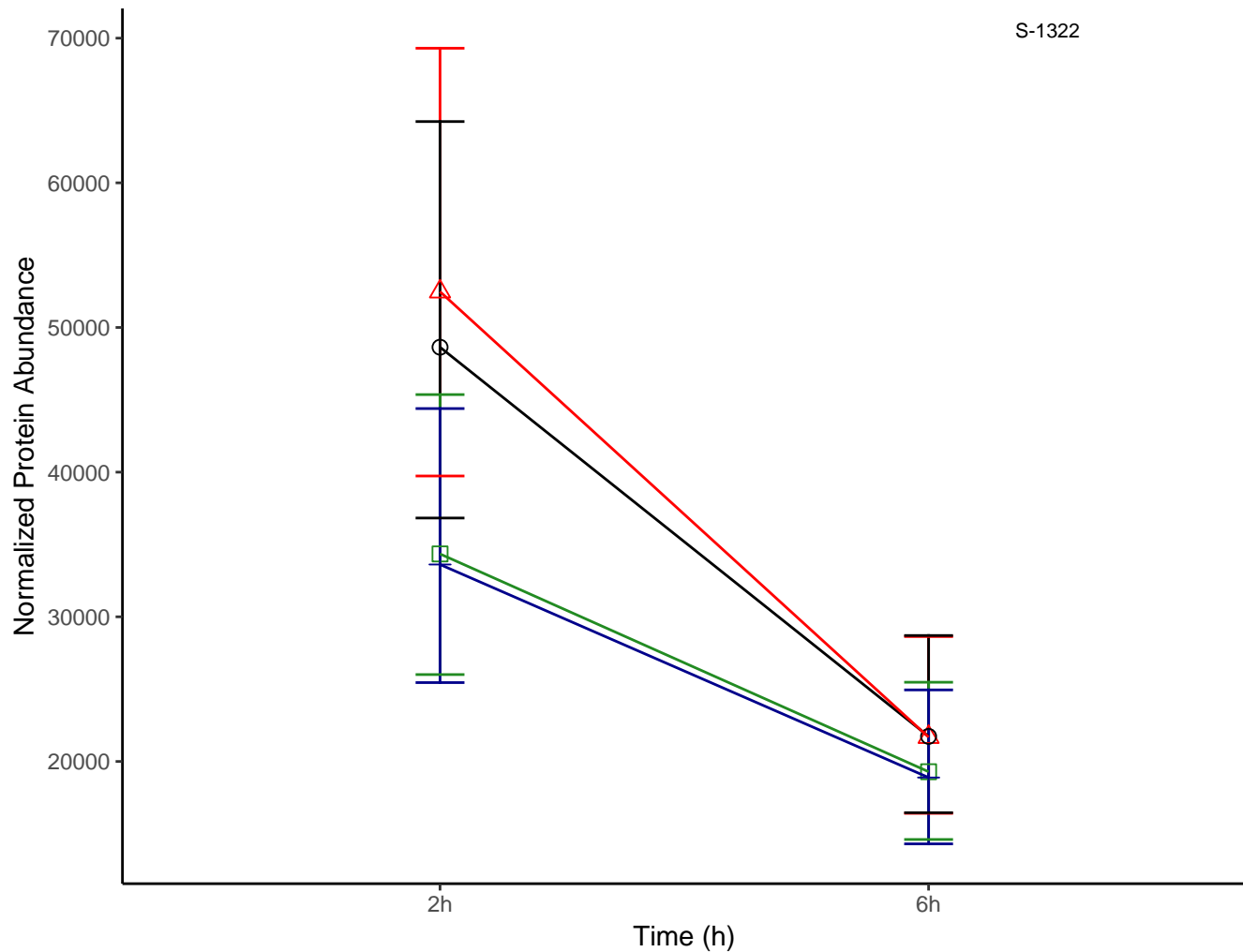
S-1321



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL24\_STAAM

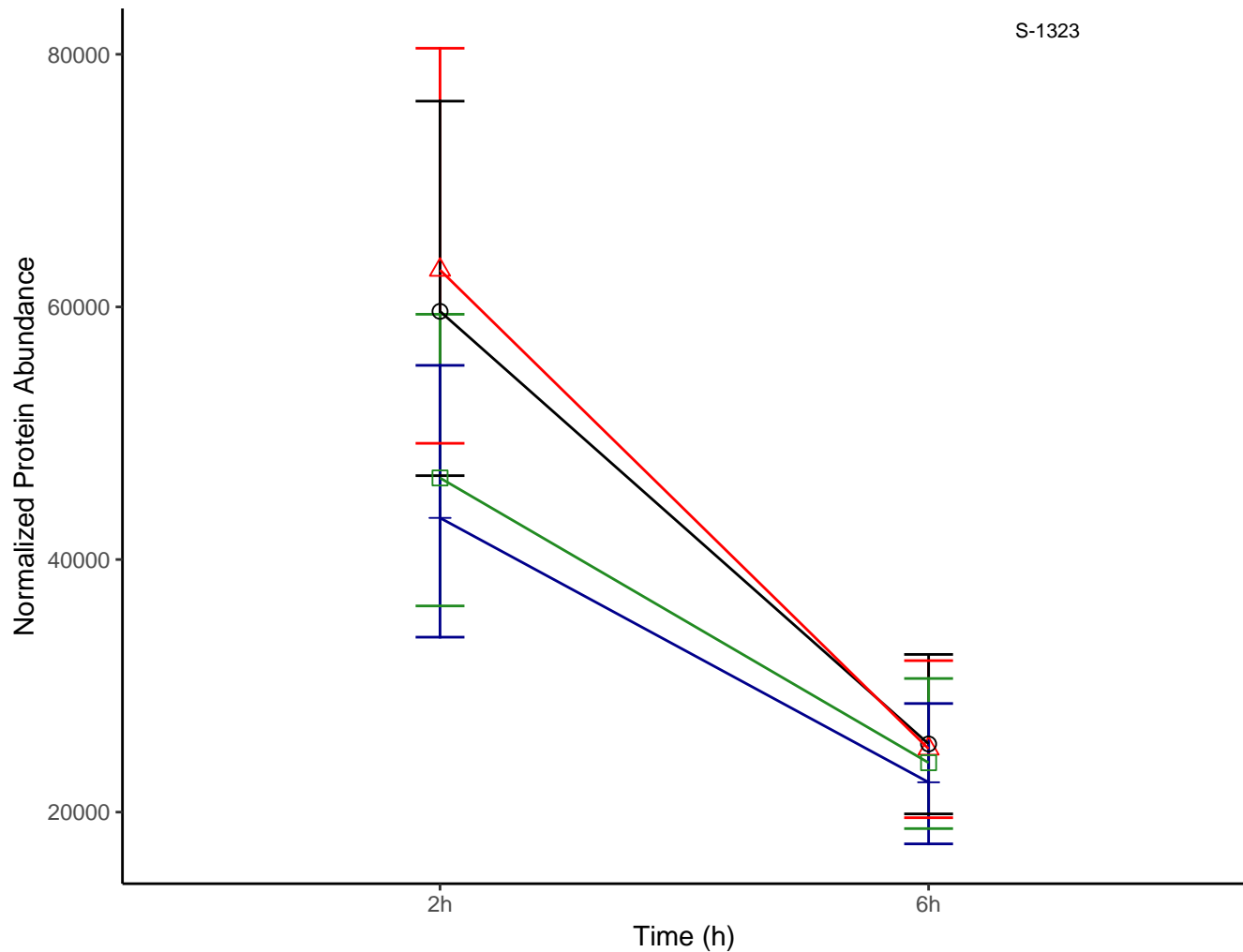
S-1322



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL25\_STAAM

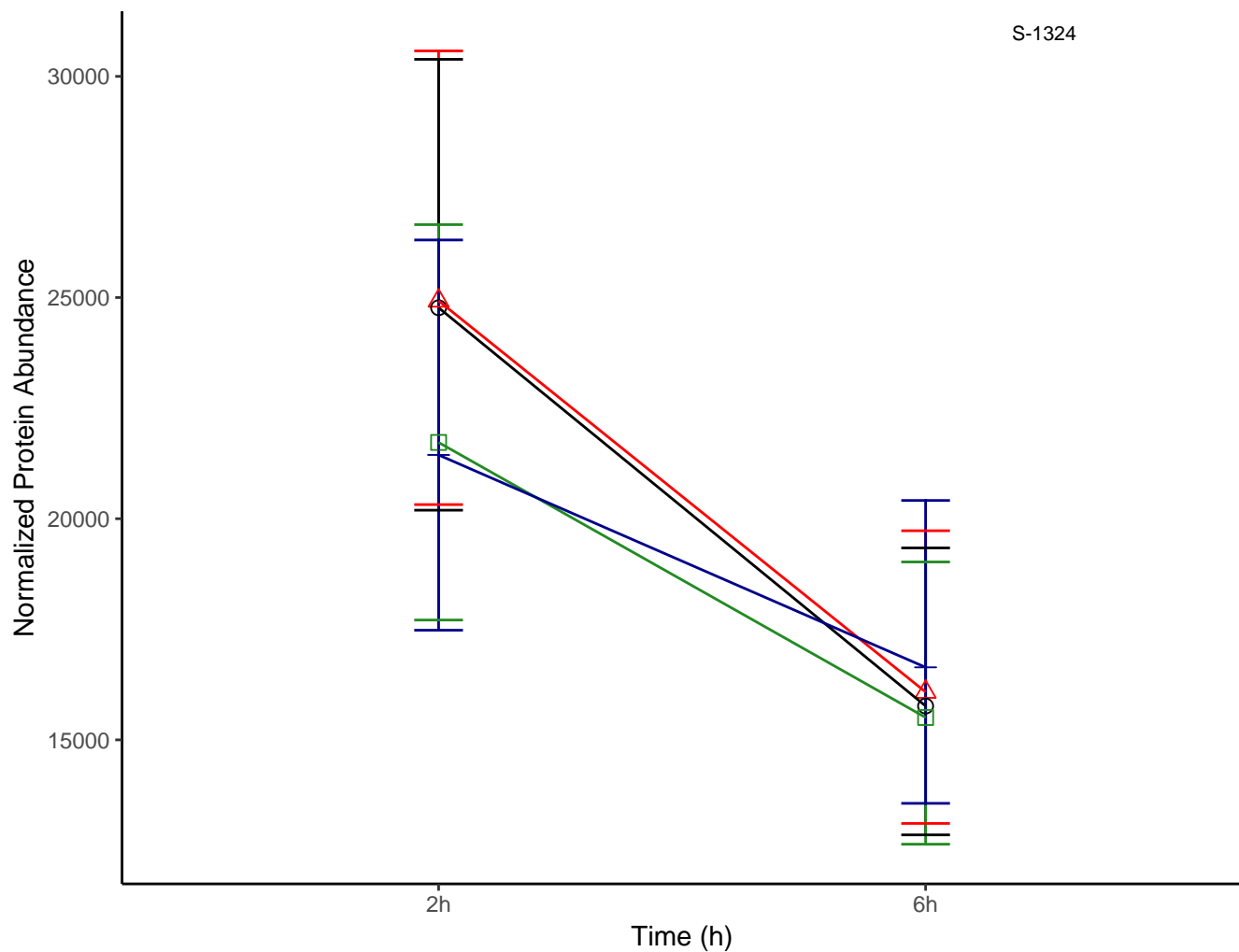
S-1323



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL27\_STAAM

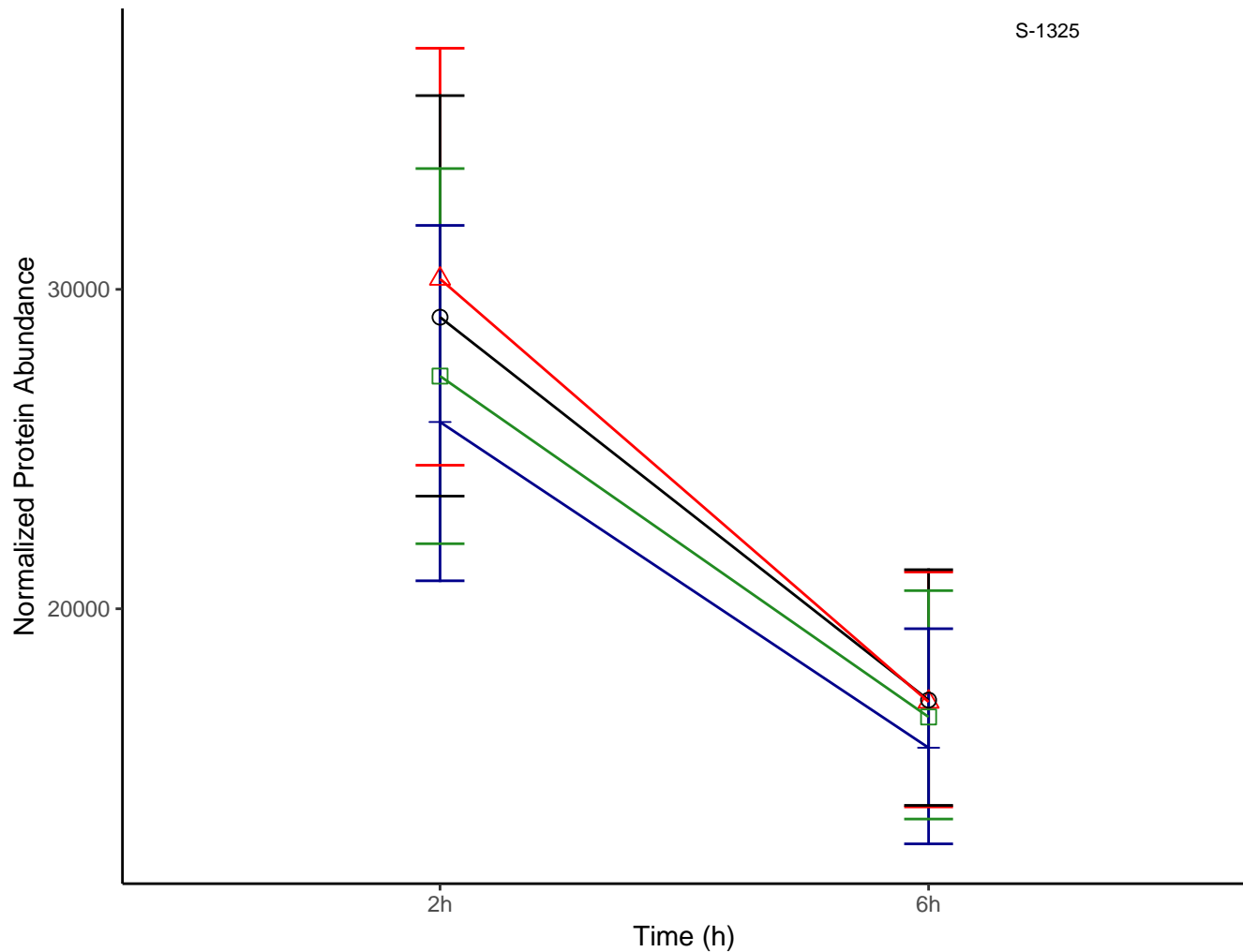
S-1324



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL28\_STAAM

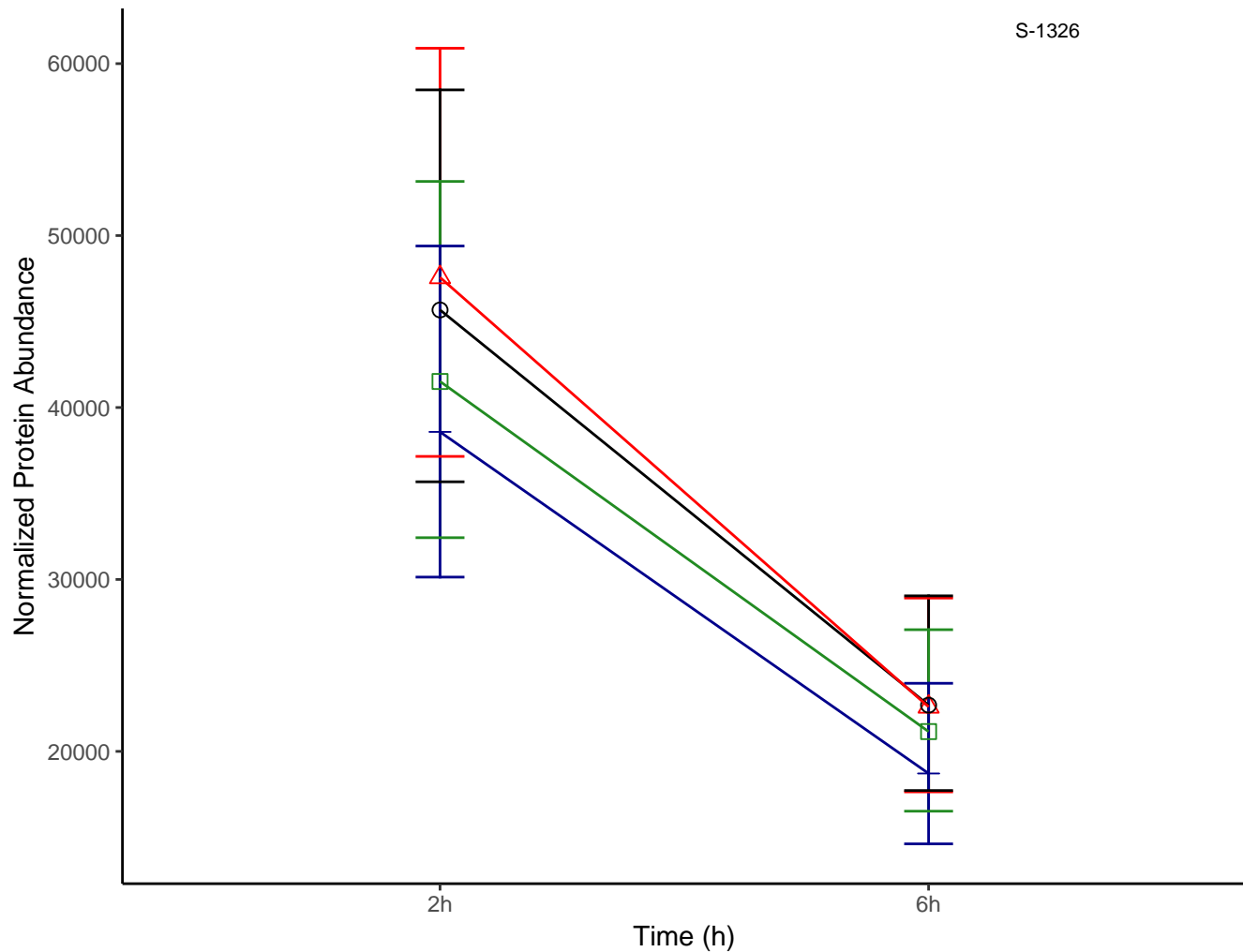
S-1325



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL29\_STAAM

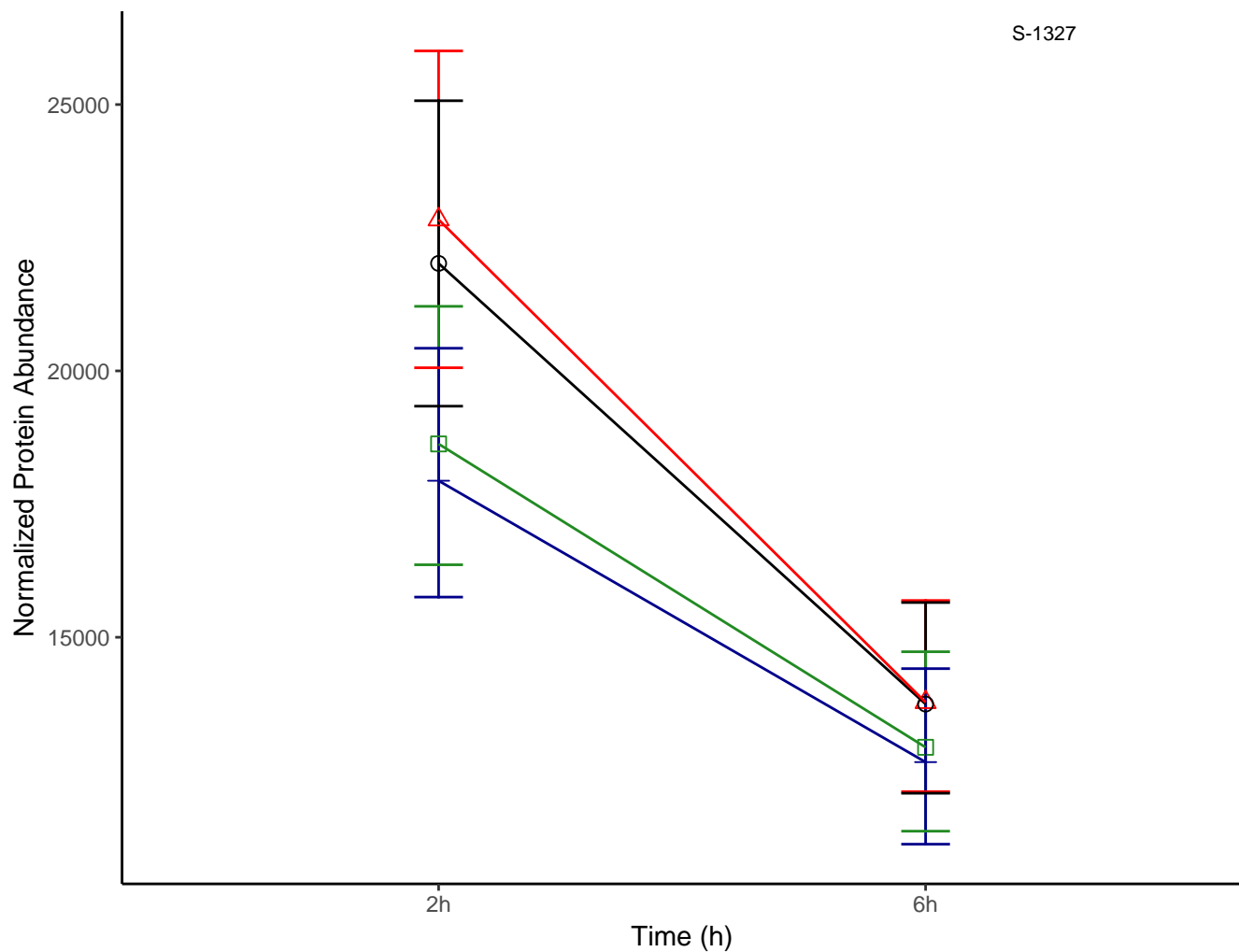
S-1326



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL3\_STAAM

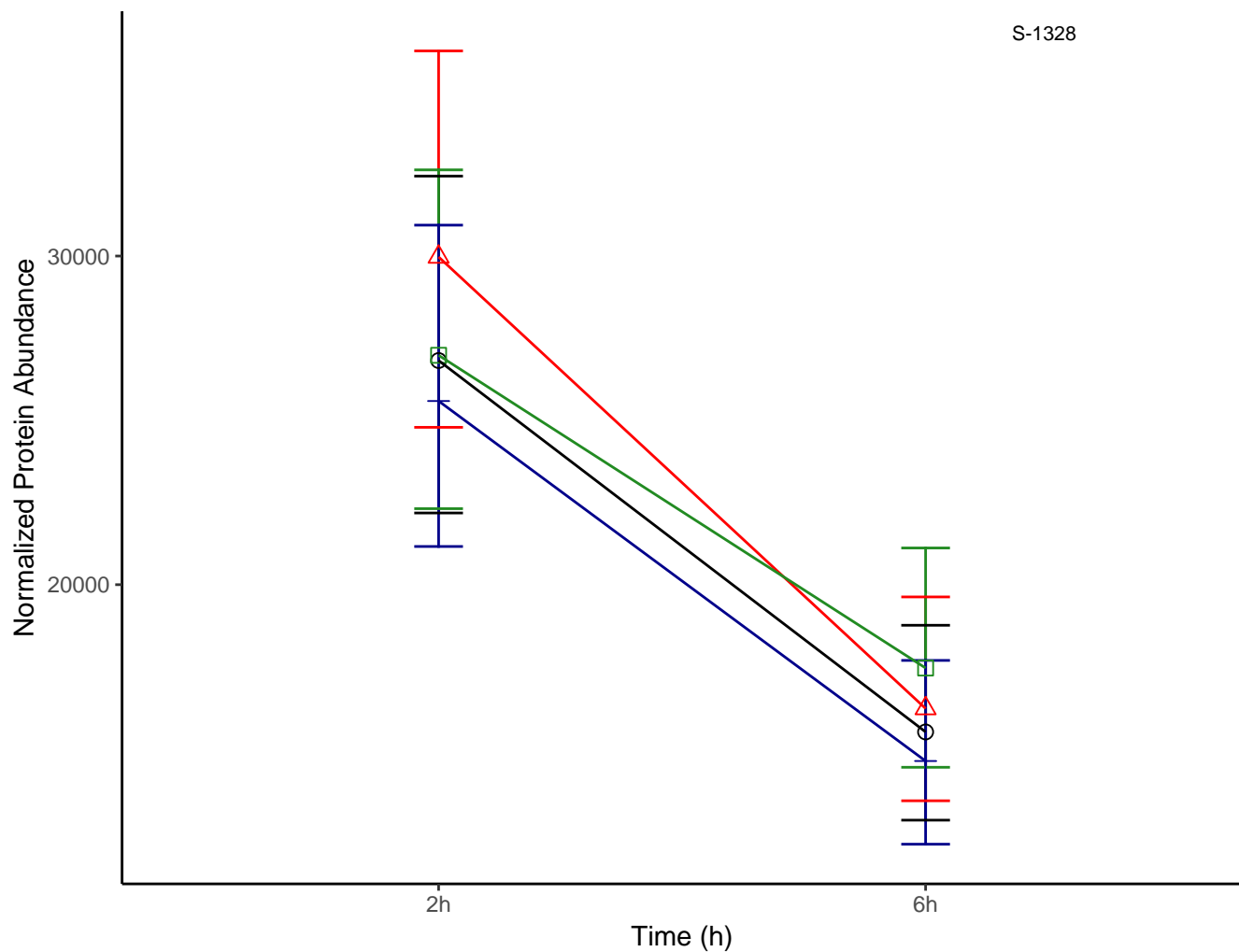
S-1327



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## RL30\_STAAM

S-1328

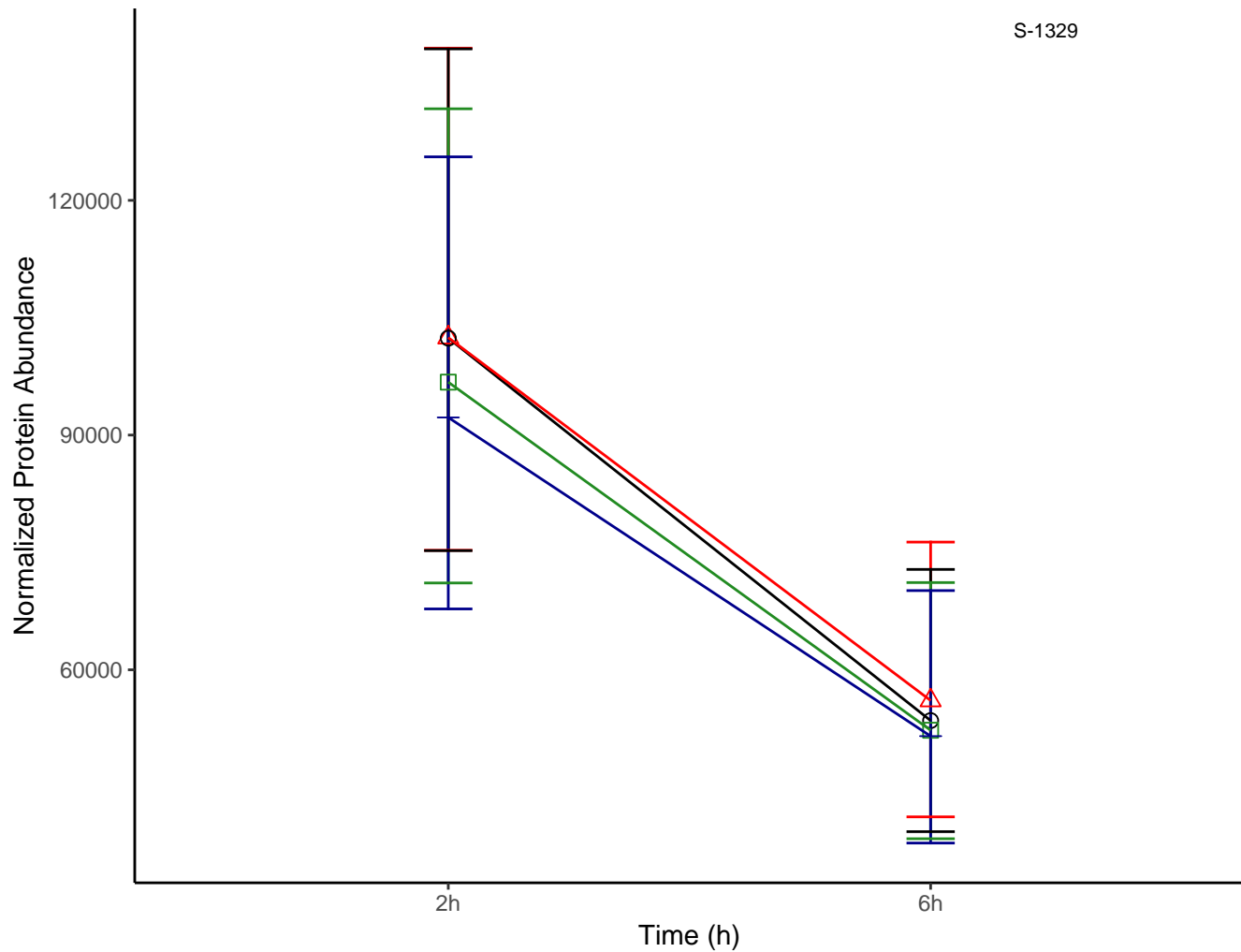


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



## RL31B\_STAAM

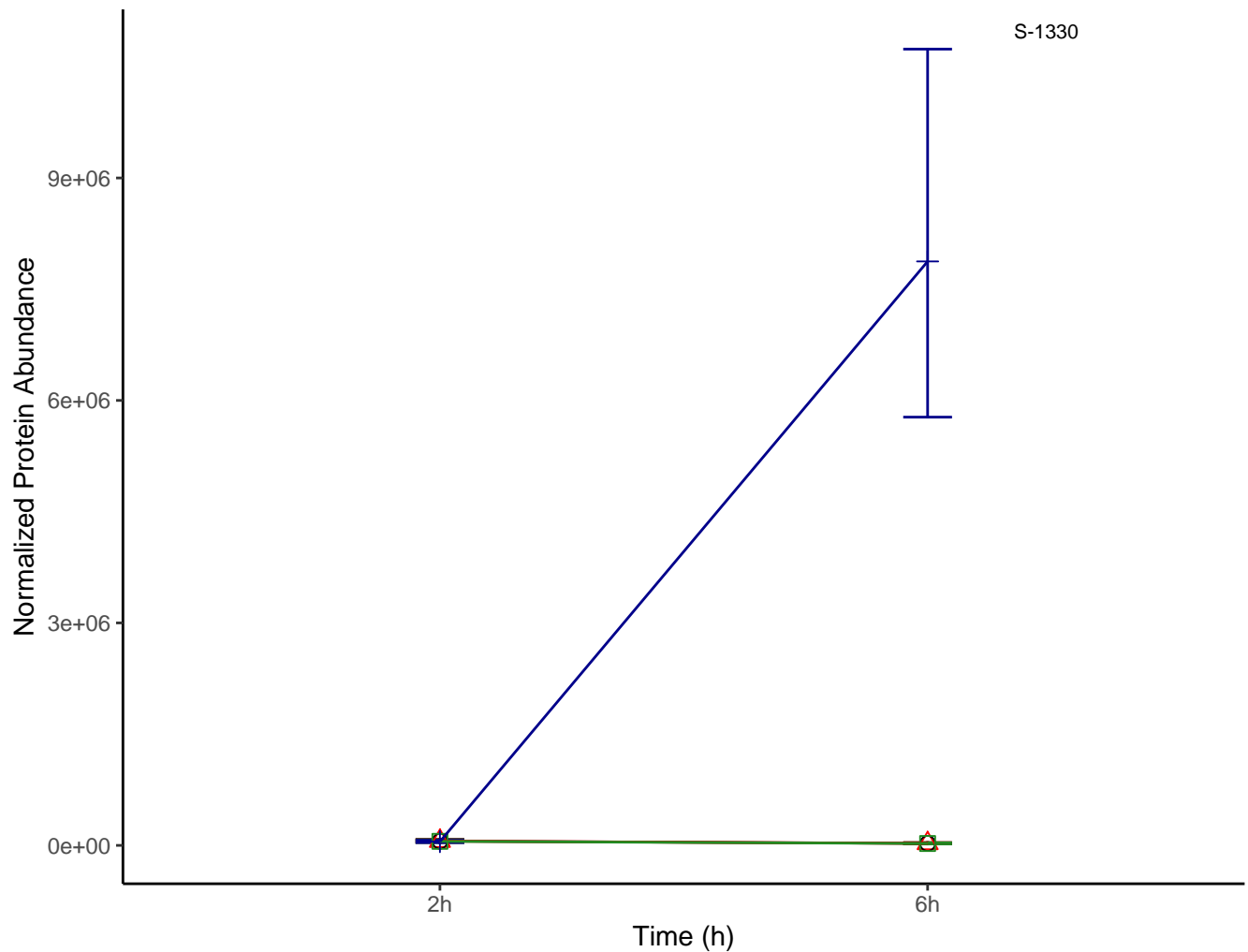
S-1329



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

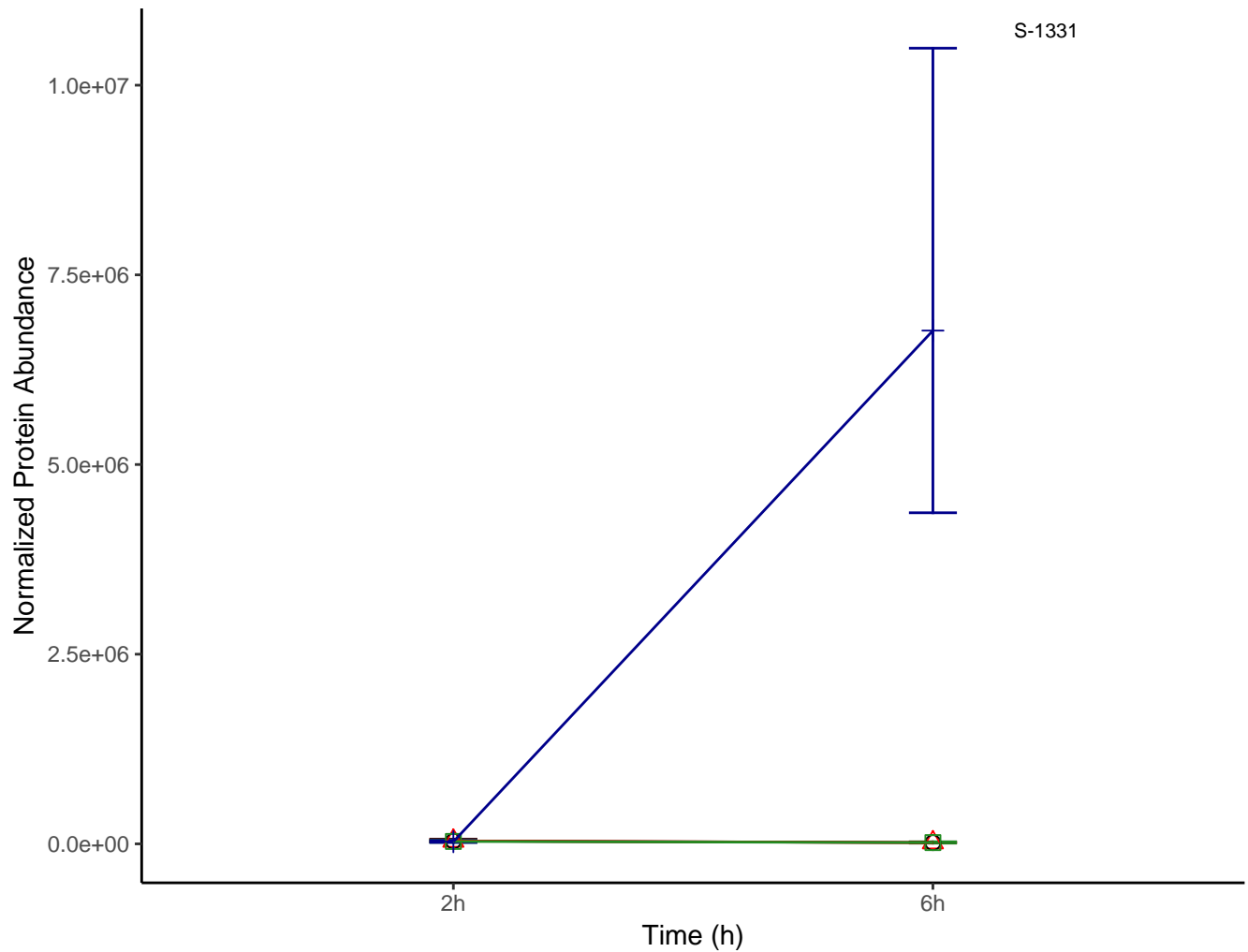
# RL32\_STAAM

S-1330



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

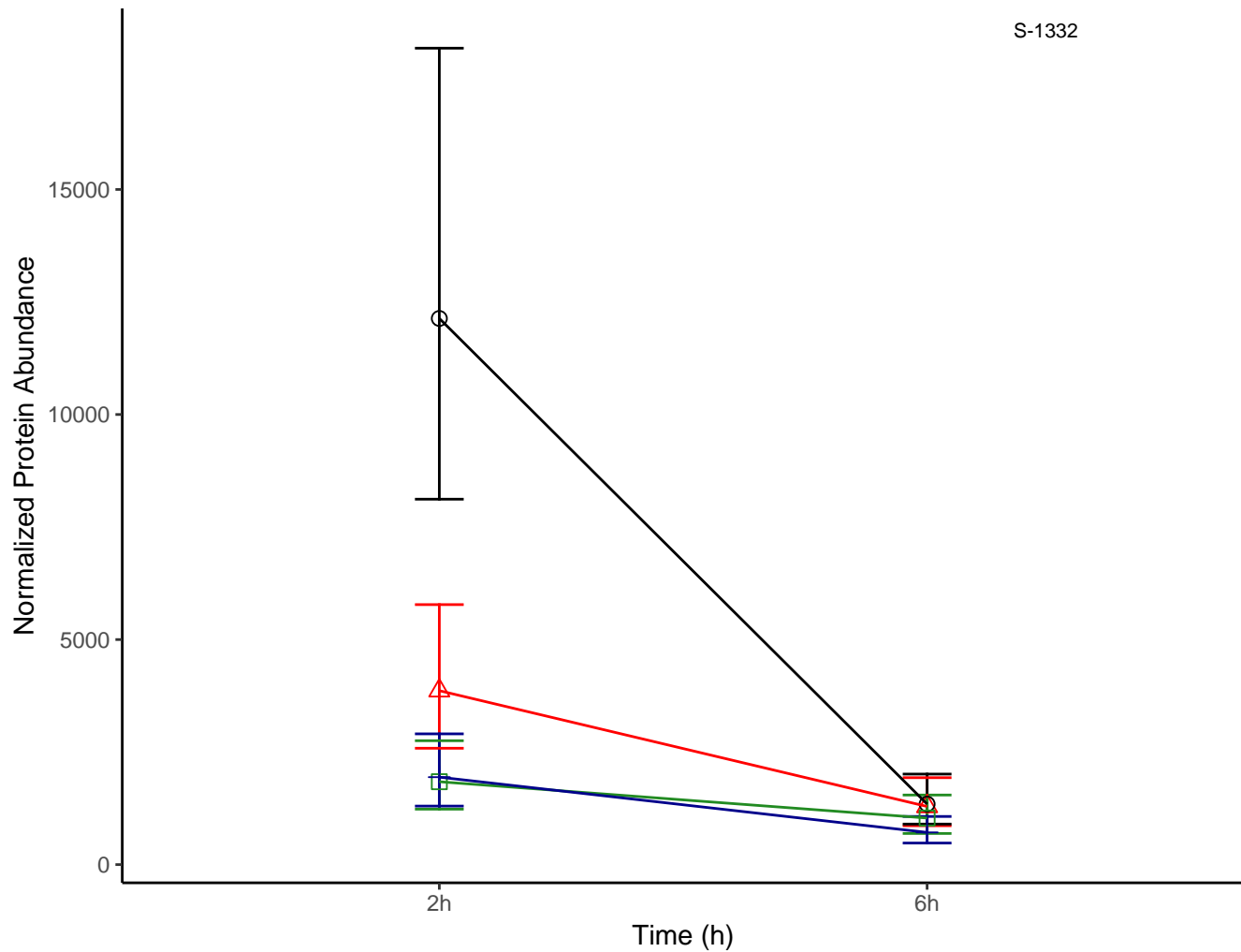
# RL331\_STAAM



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL332\_STAAM

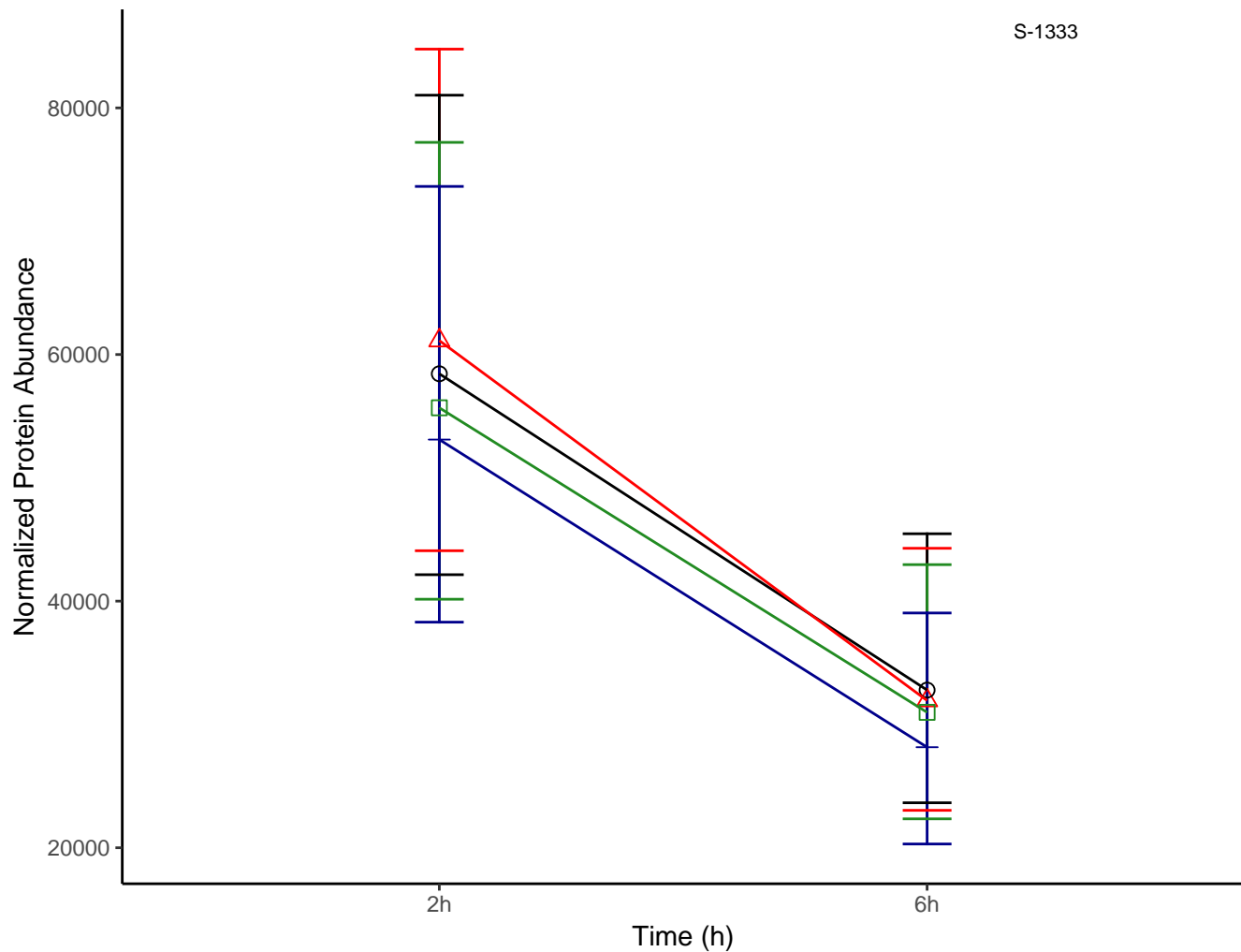
S-1332



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL35\_STAAM

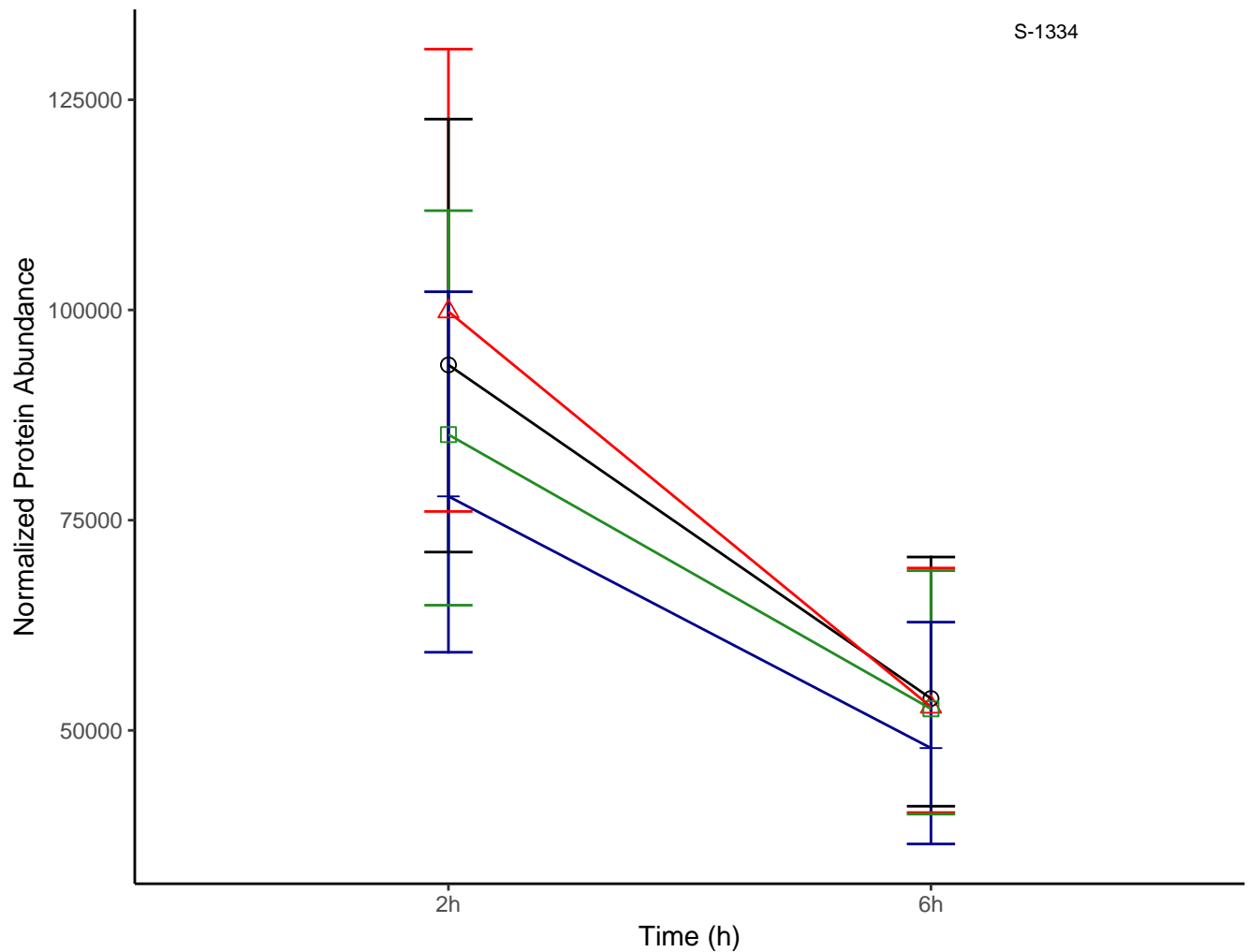
S-1333



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL36\_STAAM

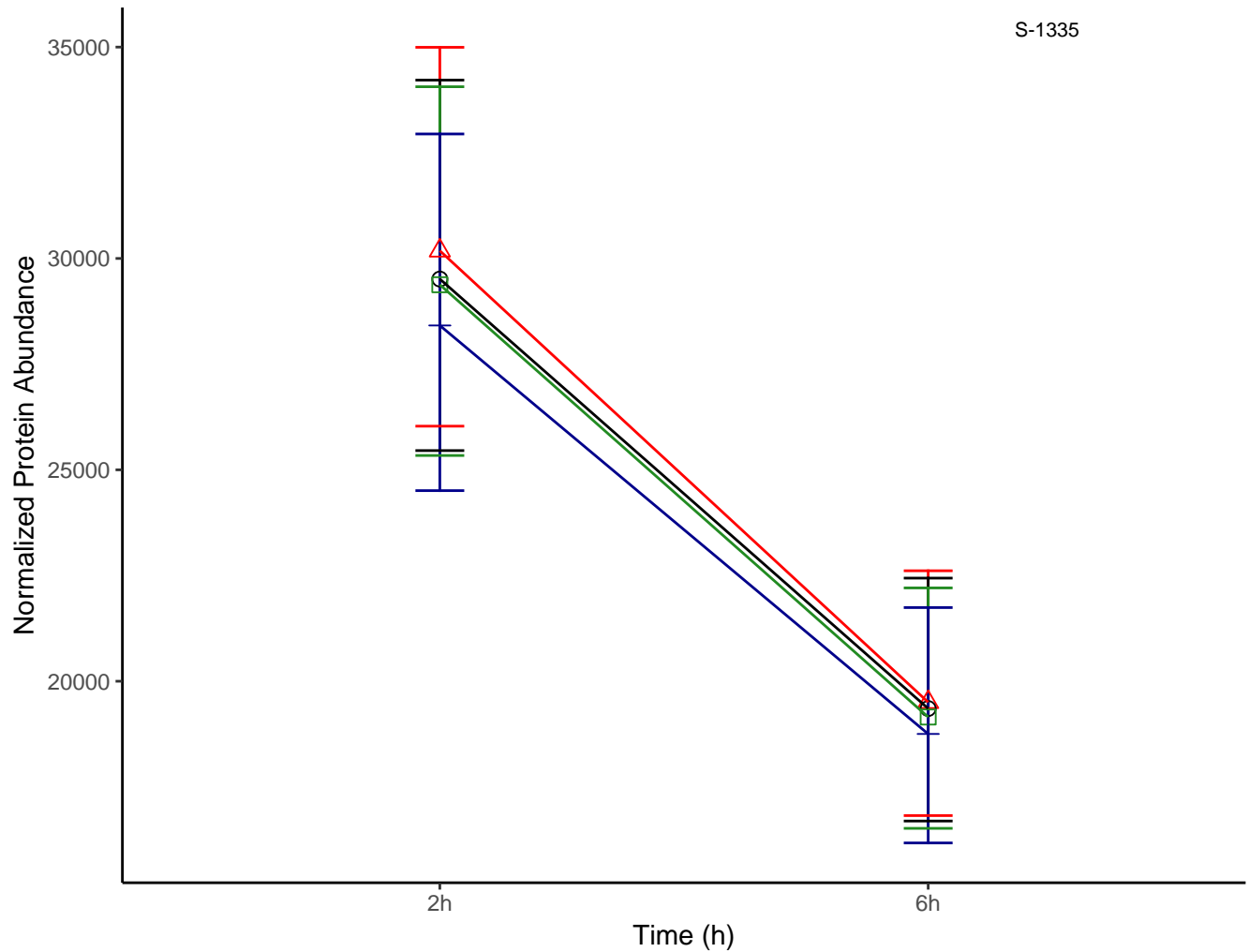
S-1334



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL4\_STAAM

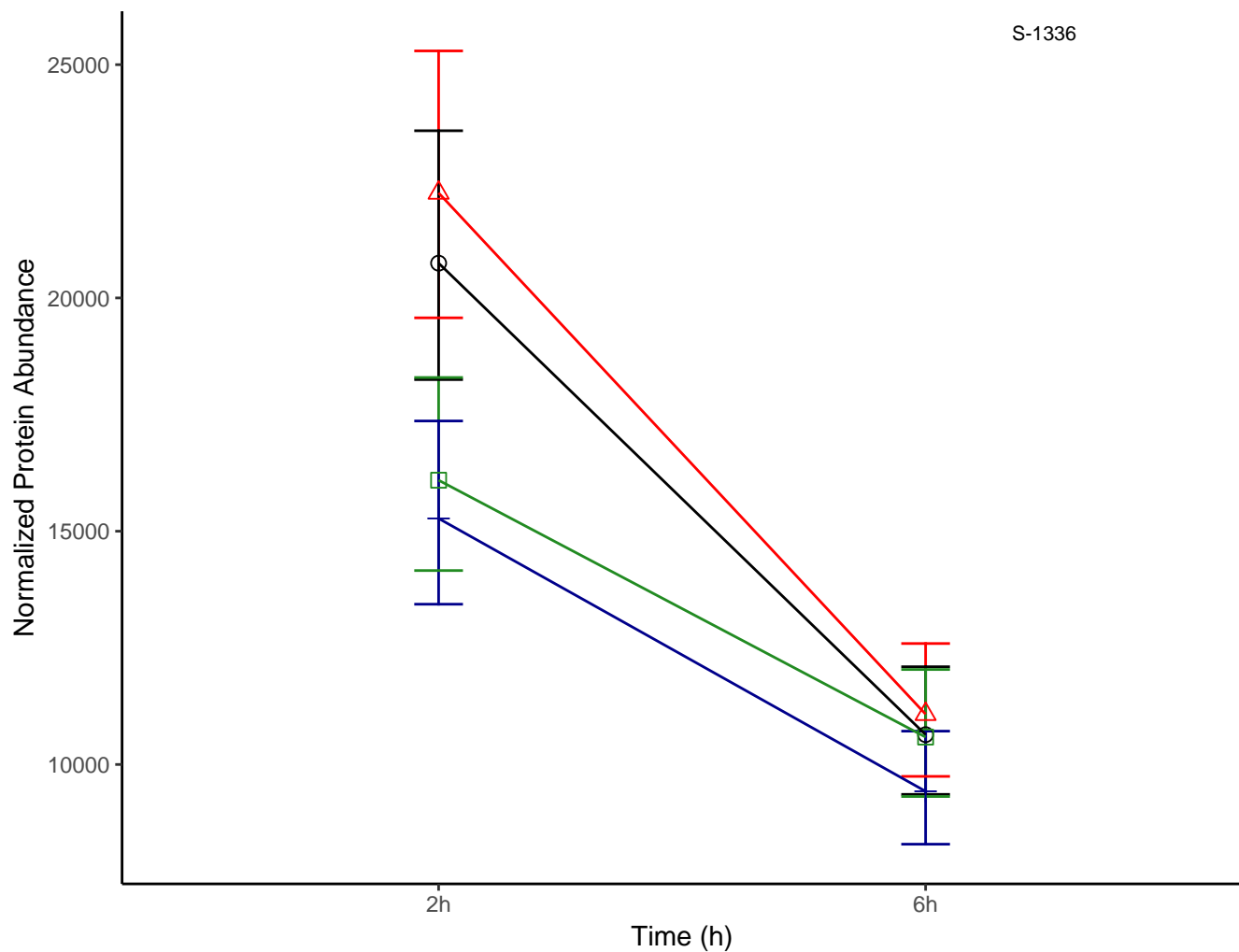
S-1335



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RL5\_STAAM

S-1336

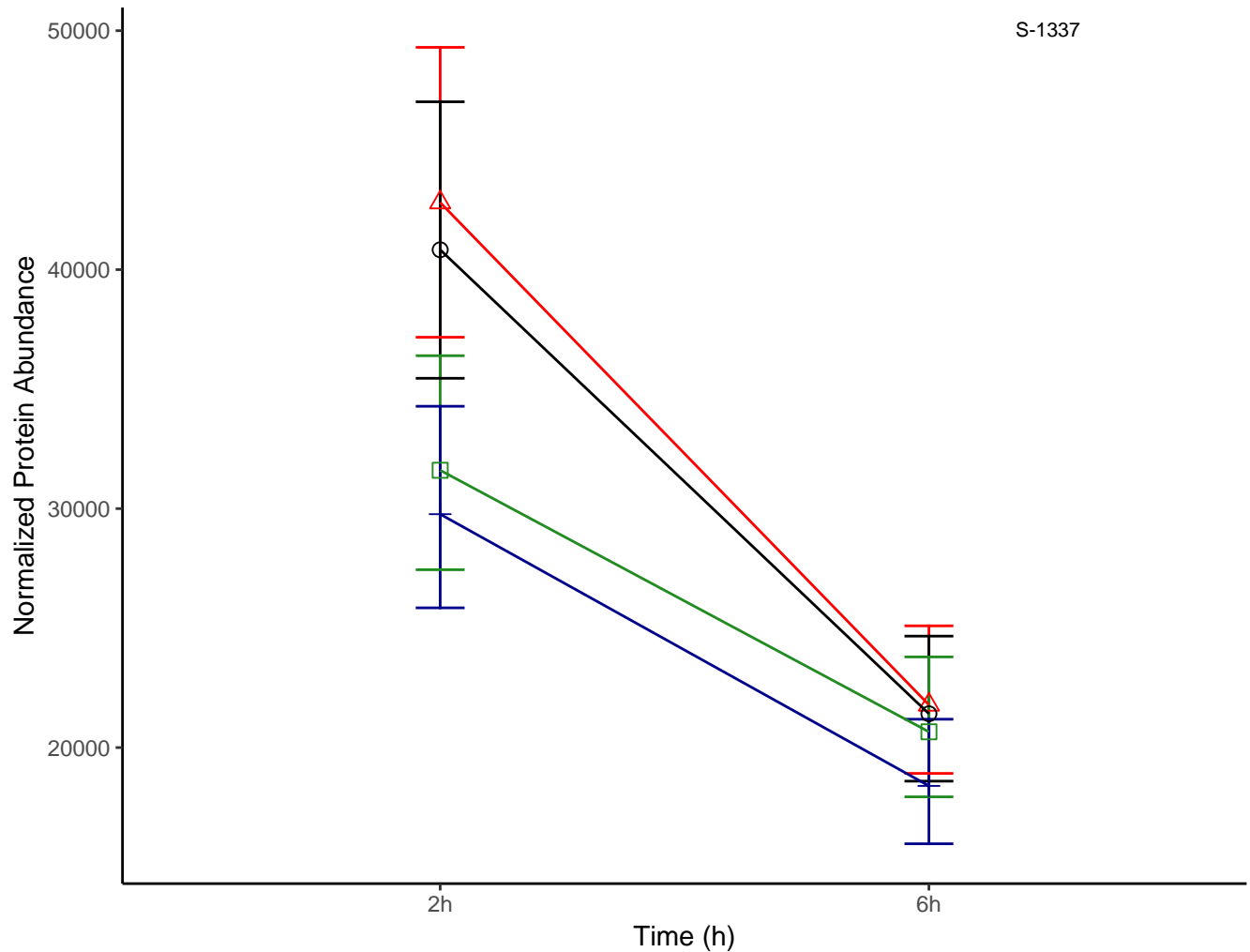


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RL6\_STAAM

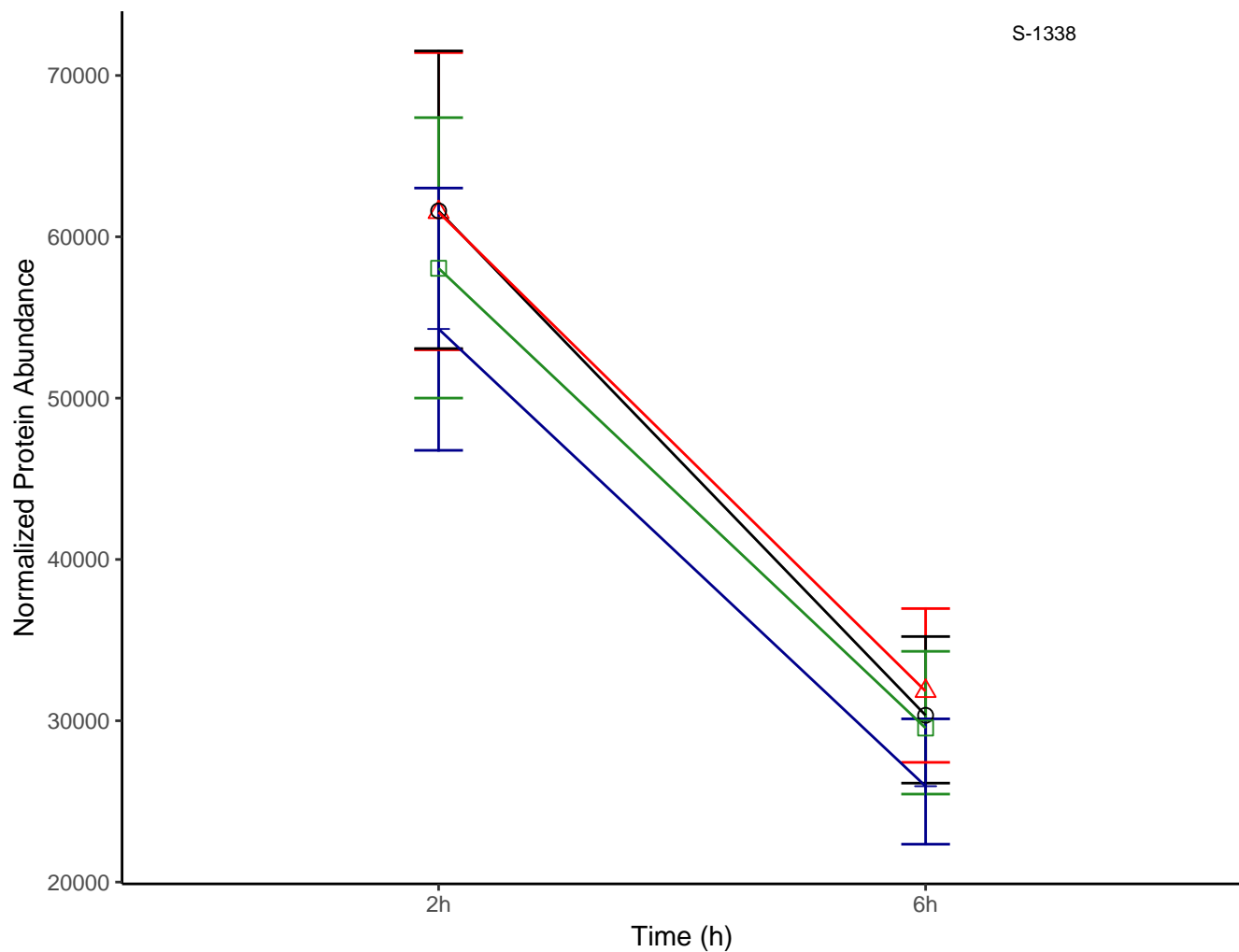
S-1337



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL7\_STAAM

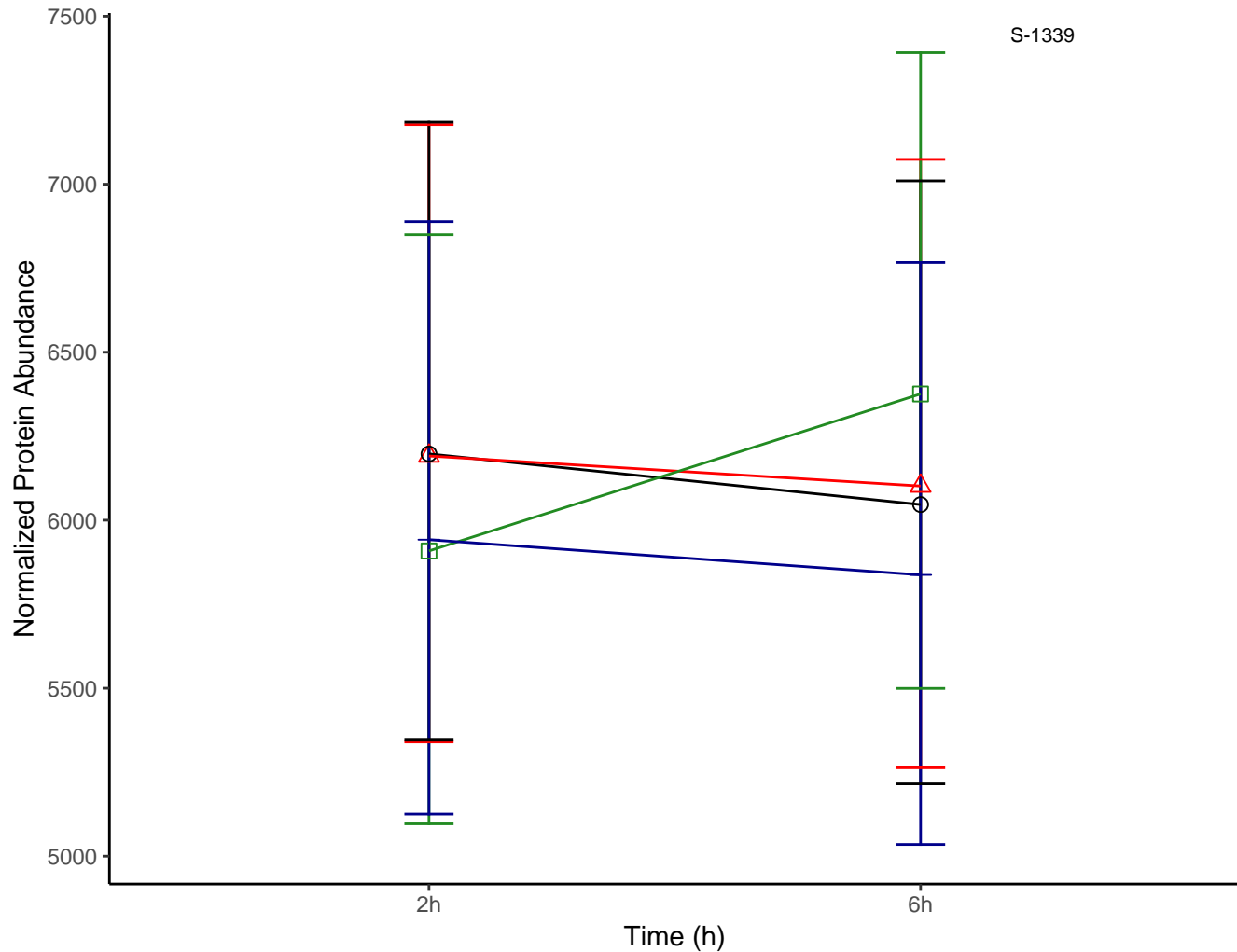
S-1338



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL9\_STAAM

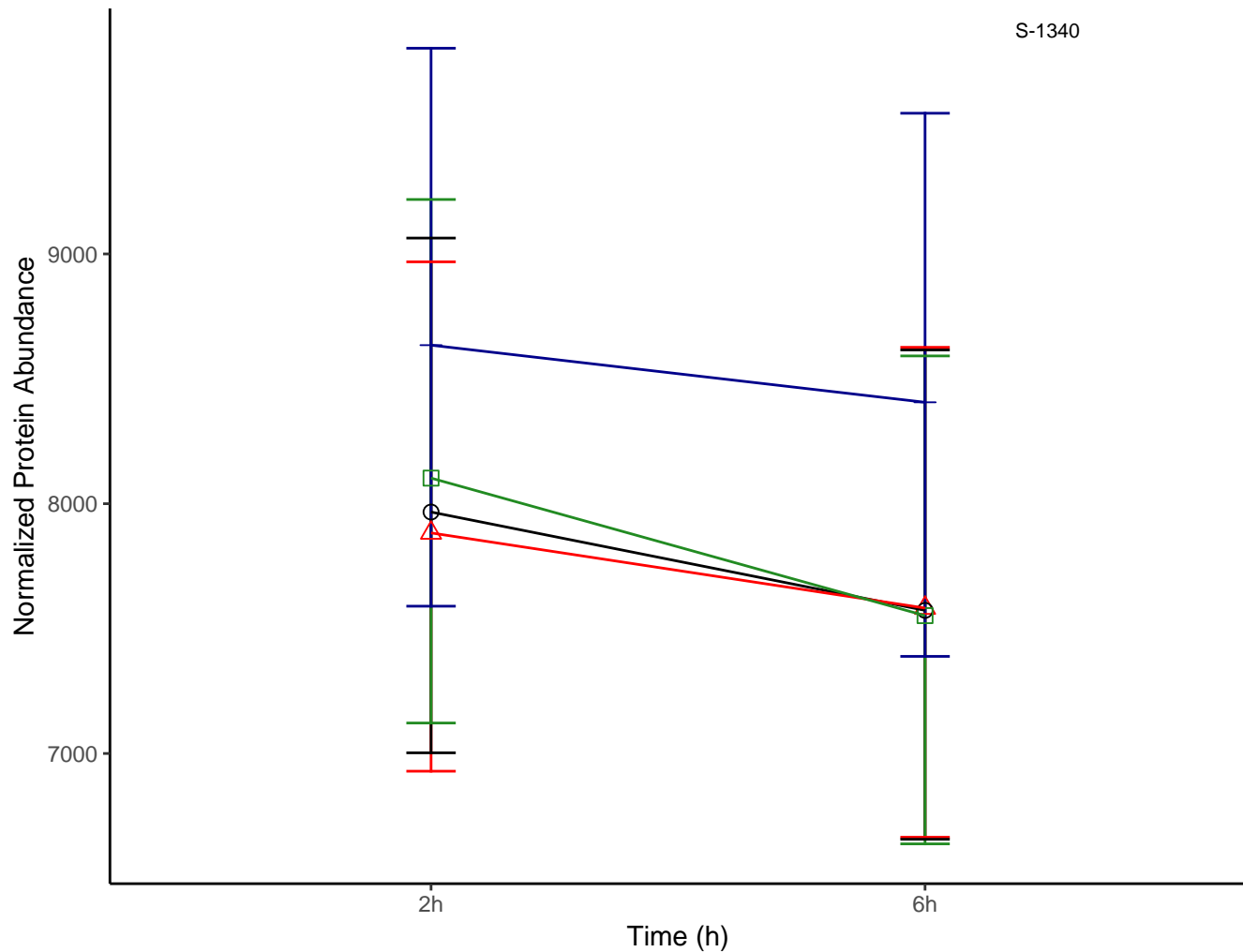
S-1339



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RNJ1\_STAAM

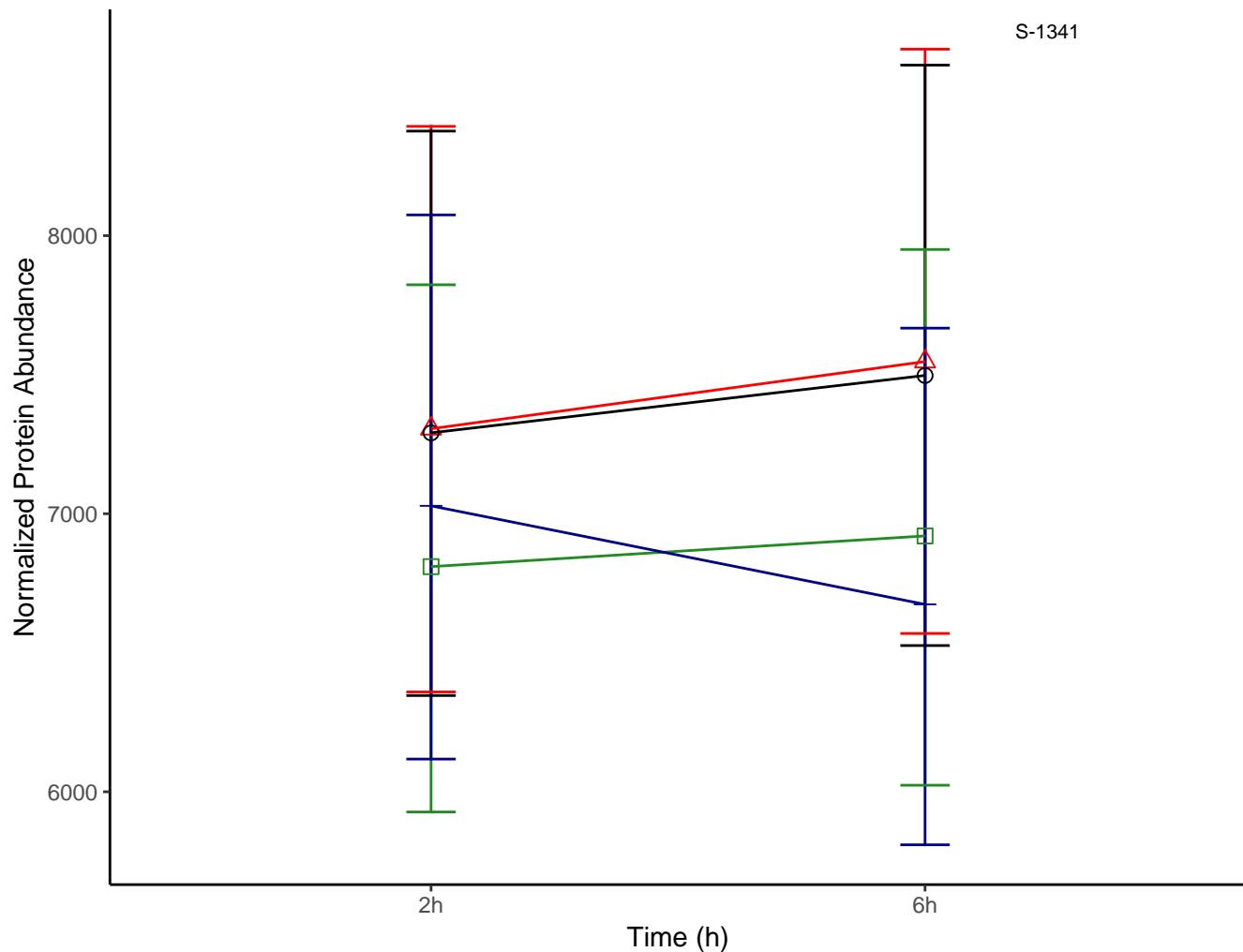
S-1340



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RNJ2\_STAAM

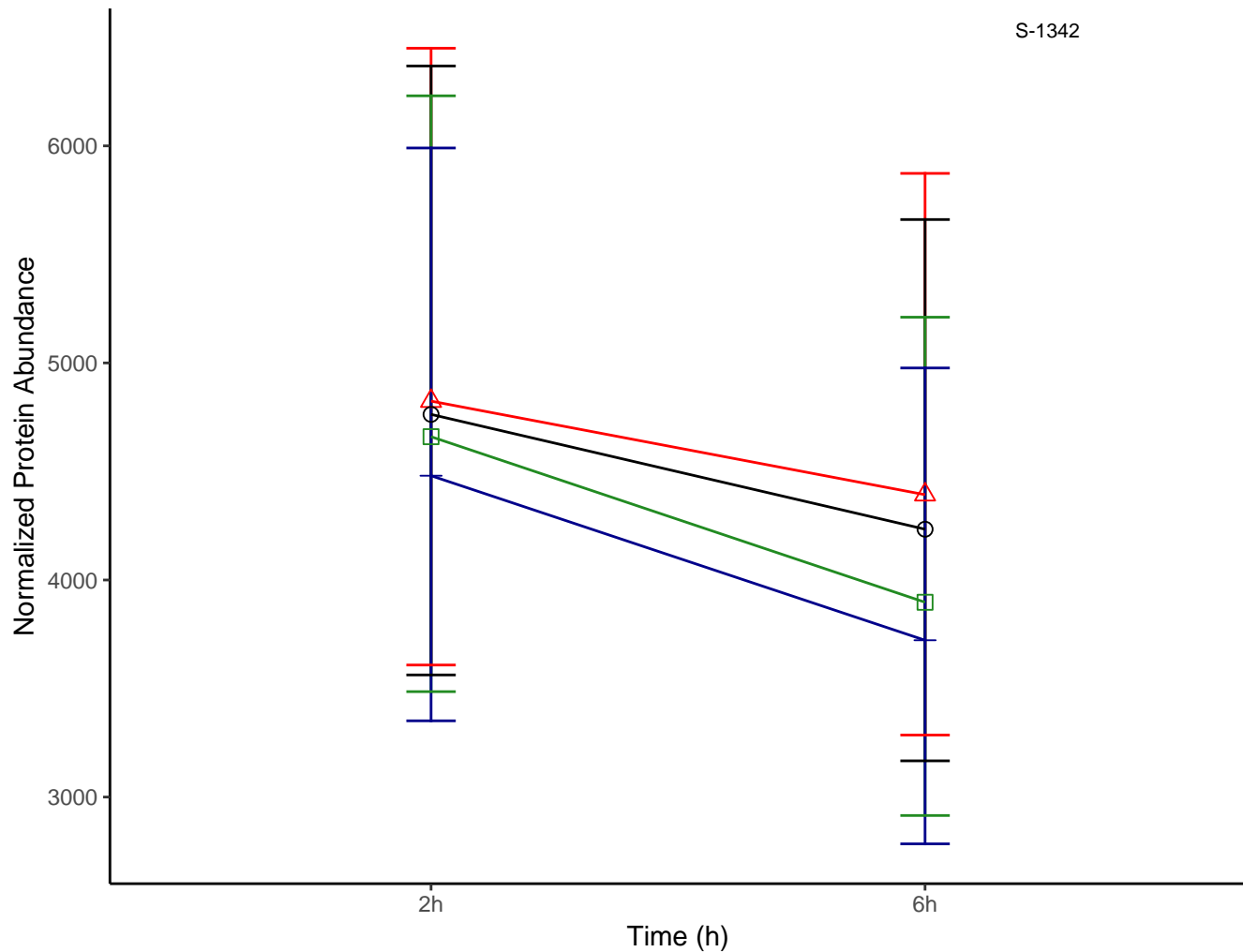
S-1341



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

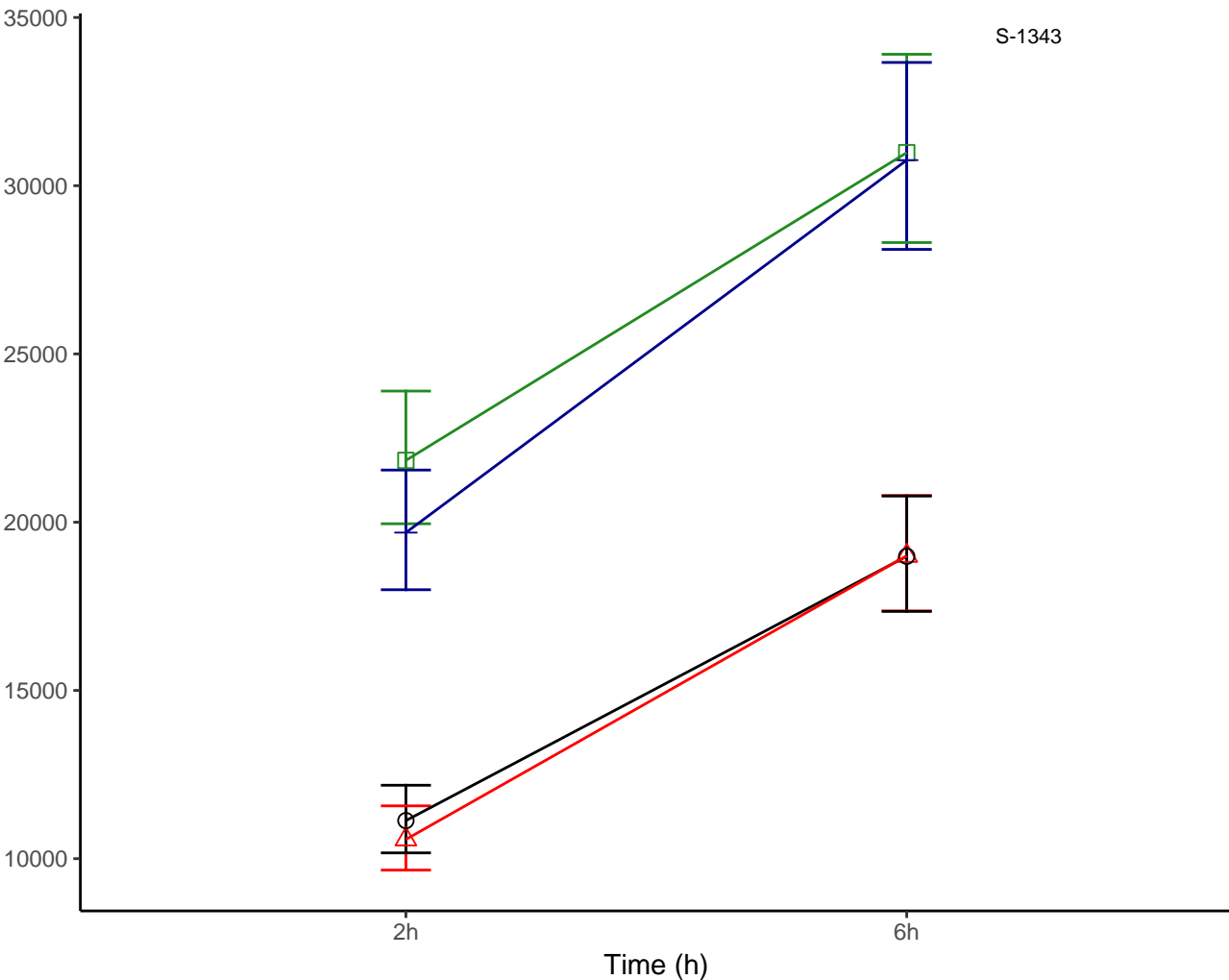
# RNY\_STAAM

S-1342



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- ⊕ SA564- $\Delta hptRS/ccpA$

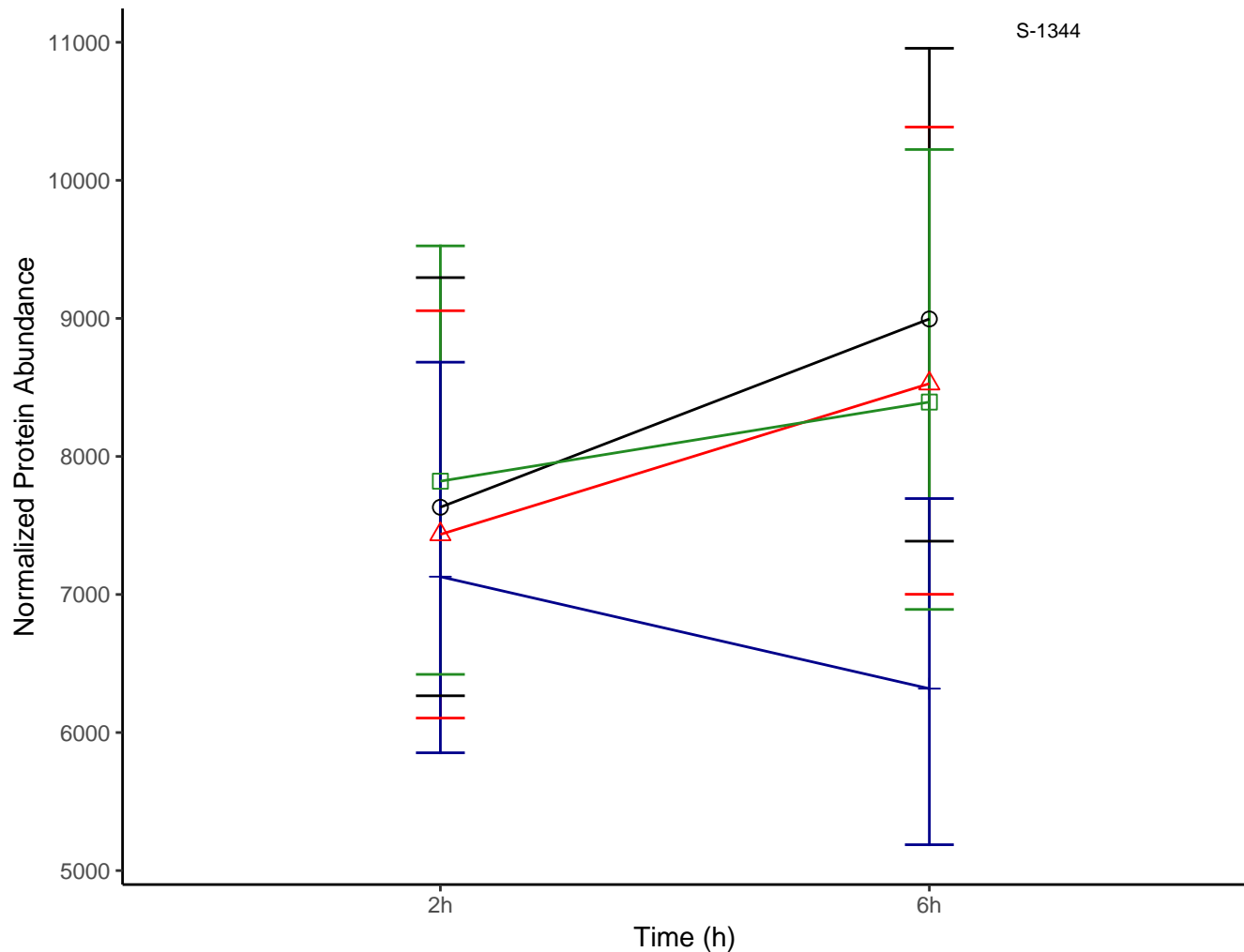
# ROCA\_STAAM



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ROT\_STAAM

S-1344

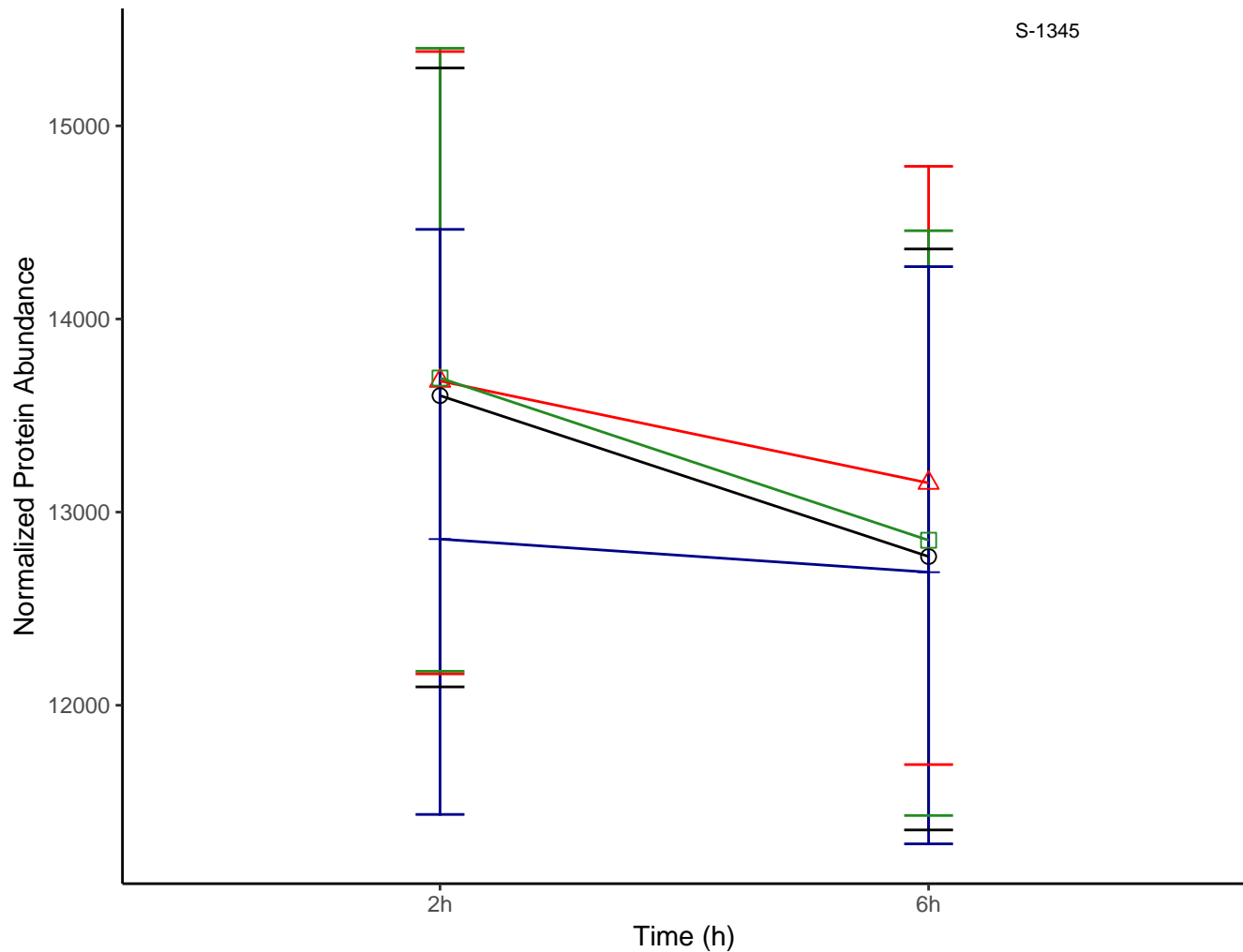


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# RPOA\_STAAM

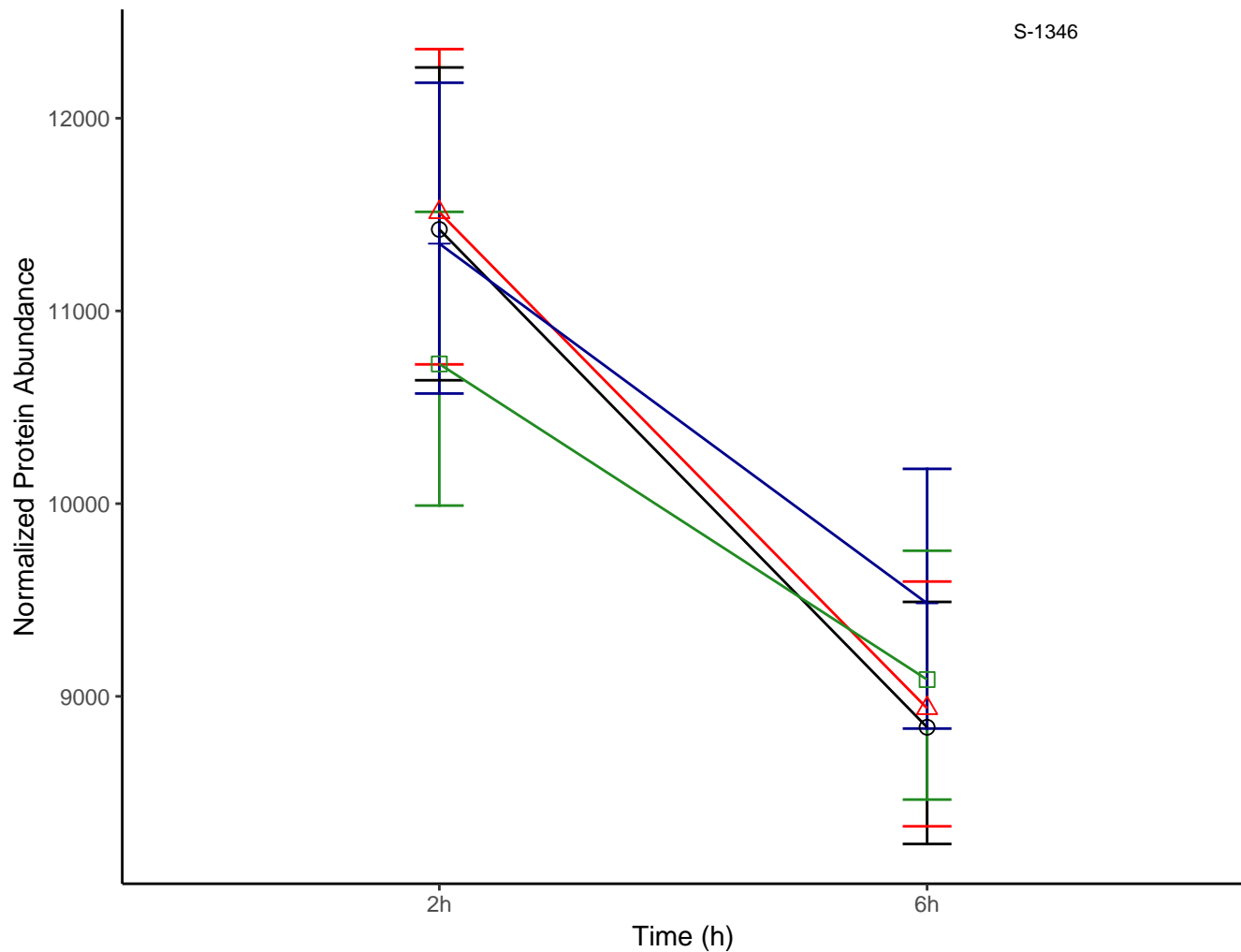
S-1345



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOB\_STAAM

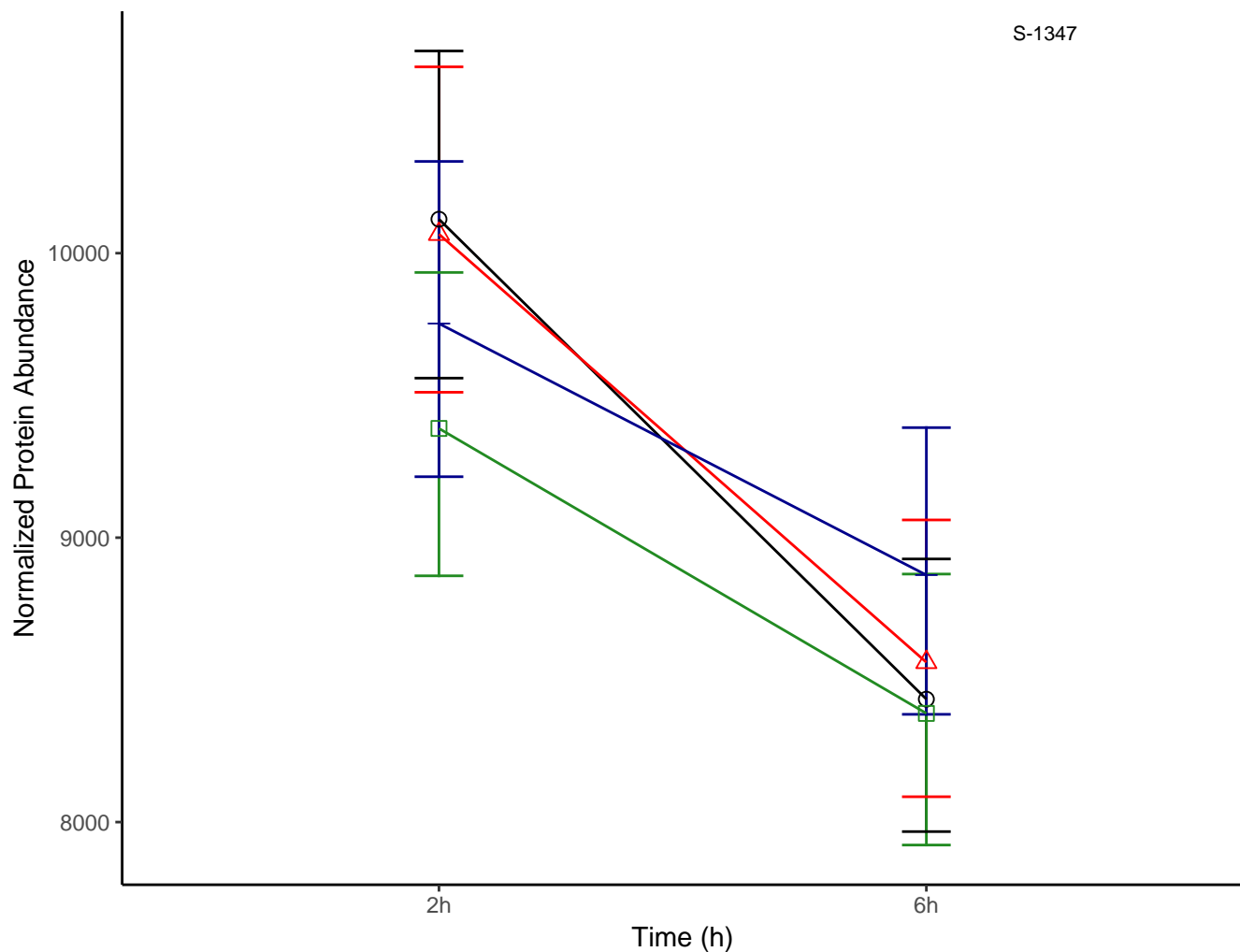
S-1346



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RPOC\_STAAM

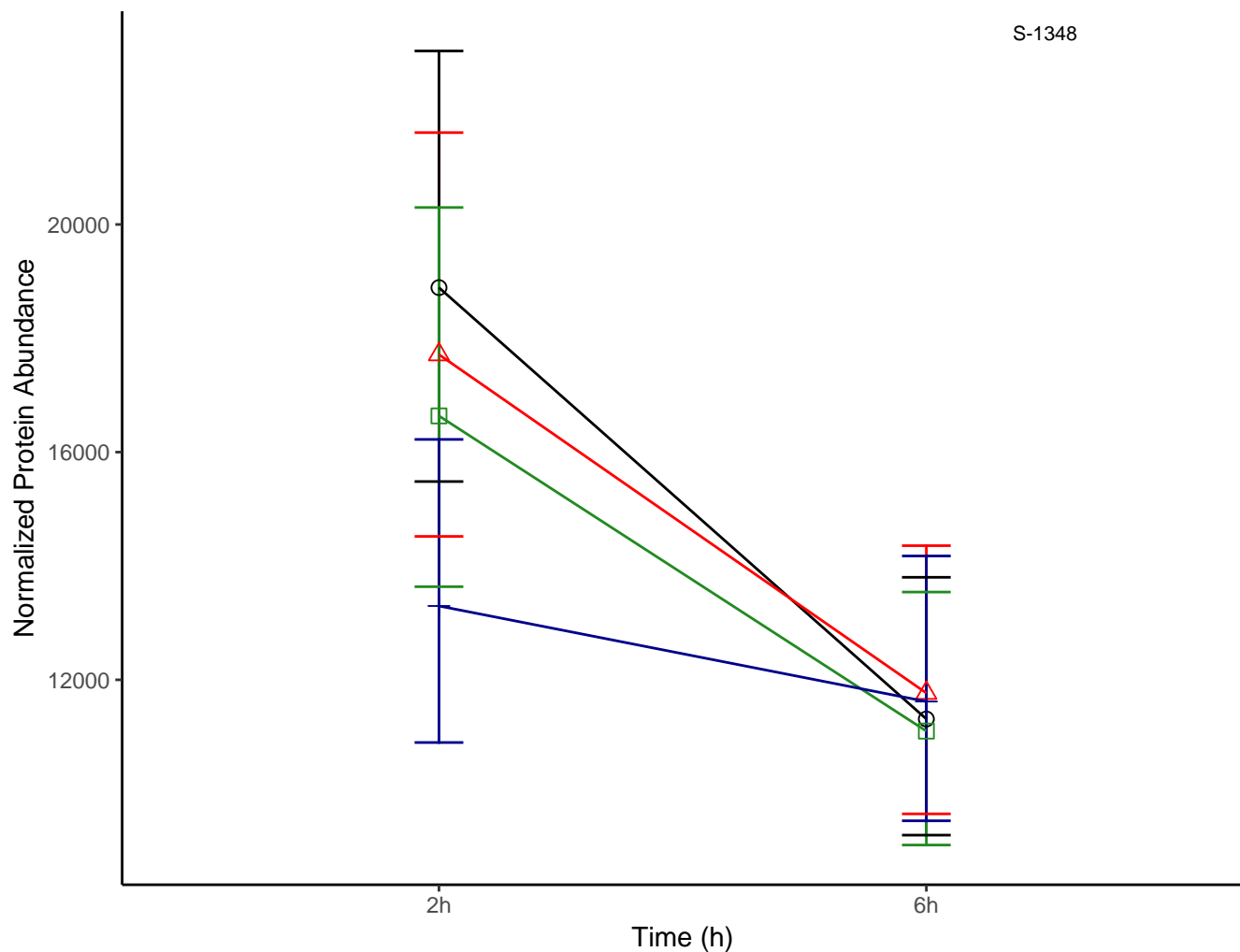
S-1347



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOE\_STAAM

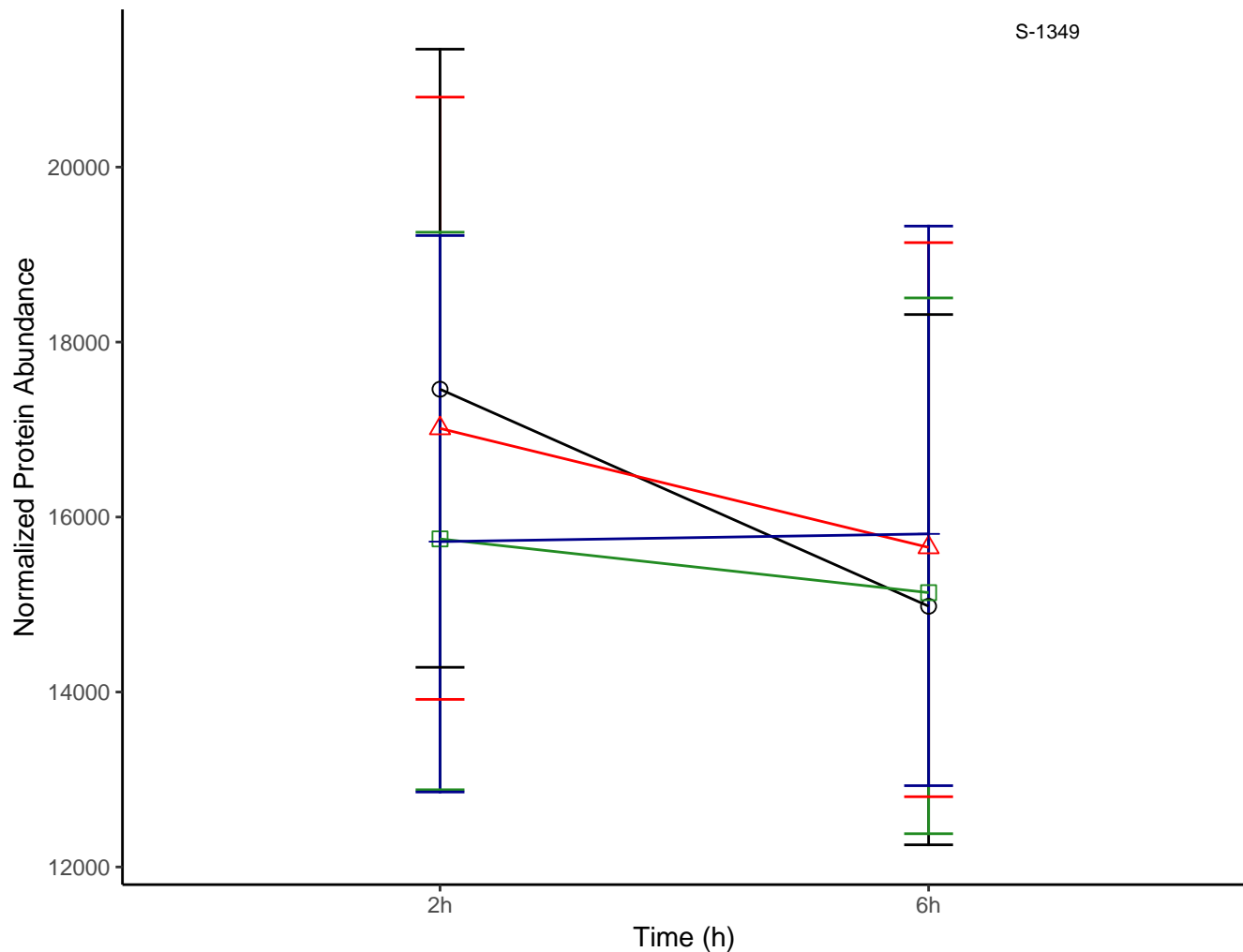
S-1348



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## RPOZ\_STAAM

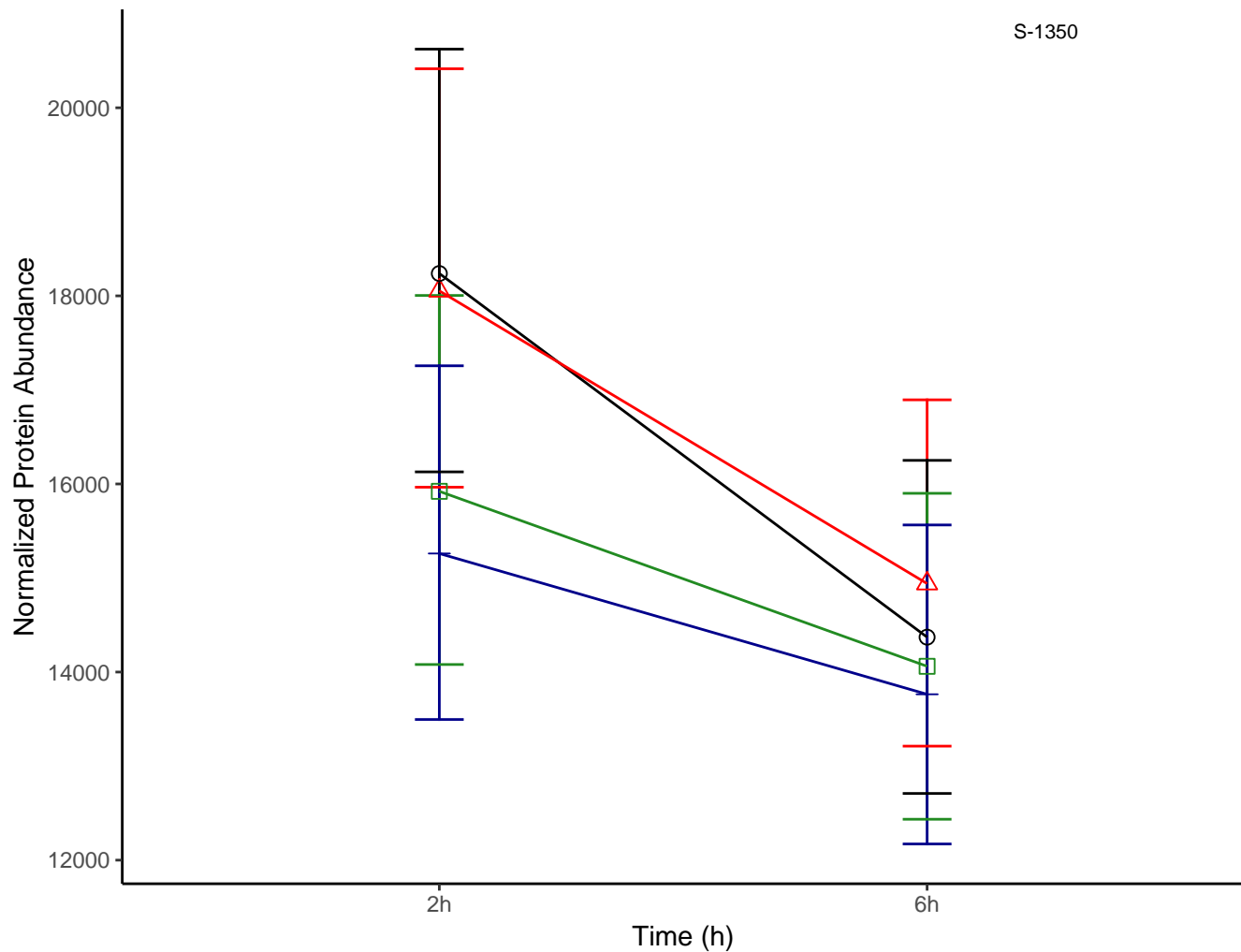
S-1349



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RRF\_STAAM

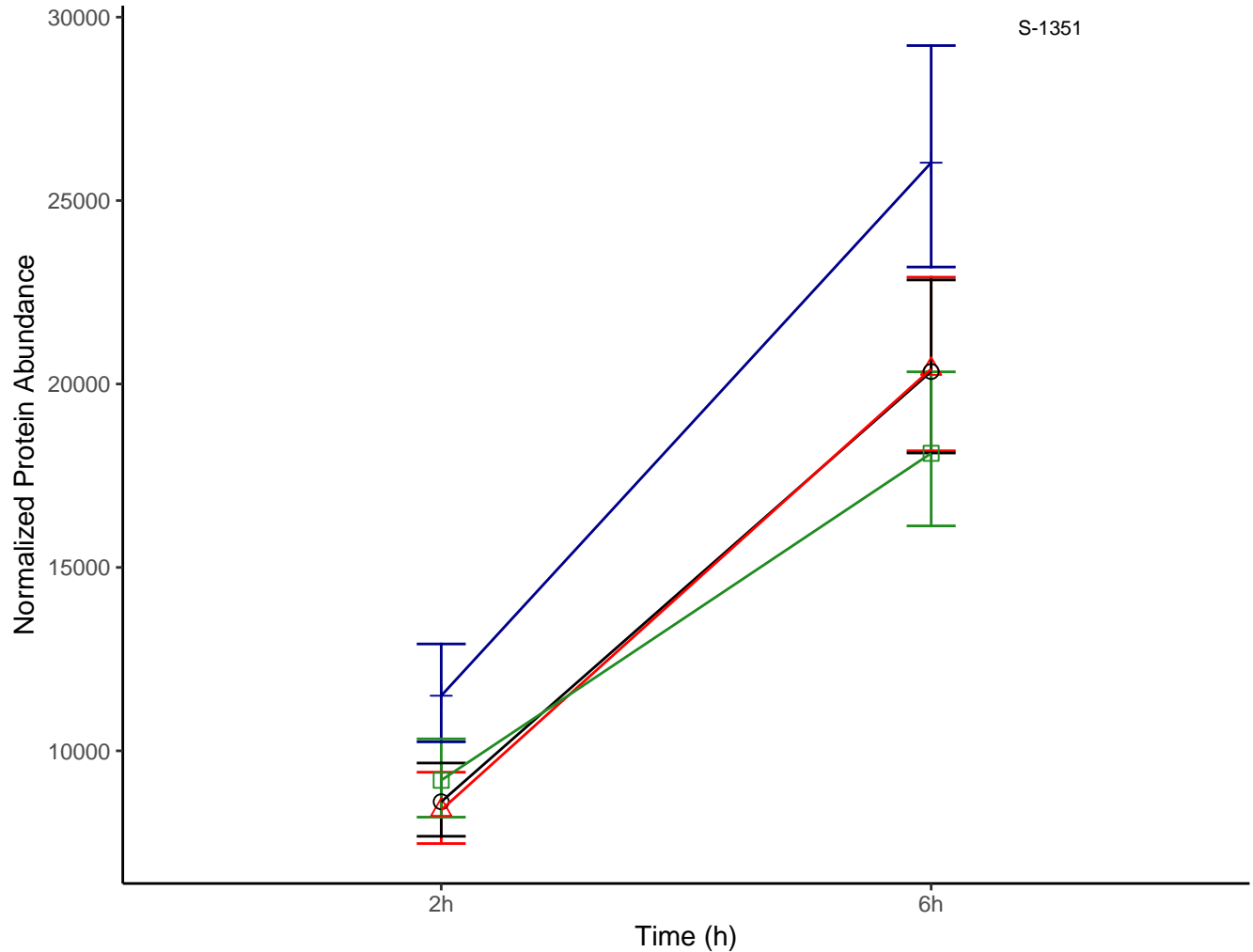
S-1350



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS1\_STAAM

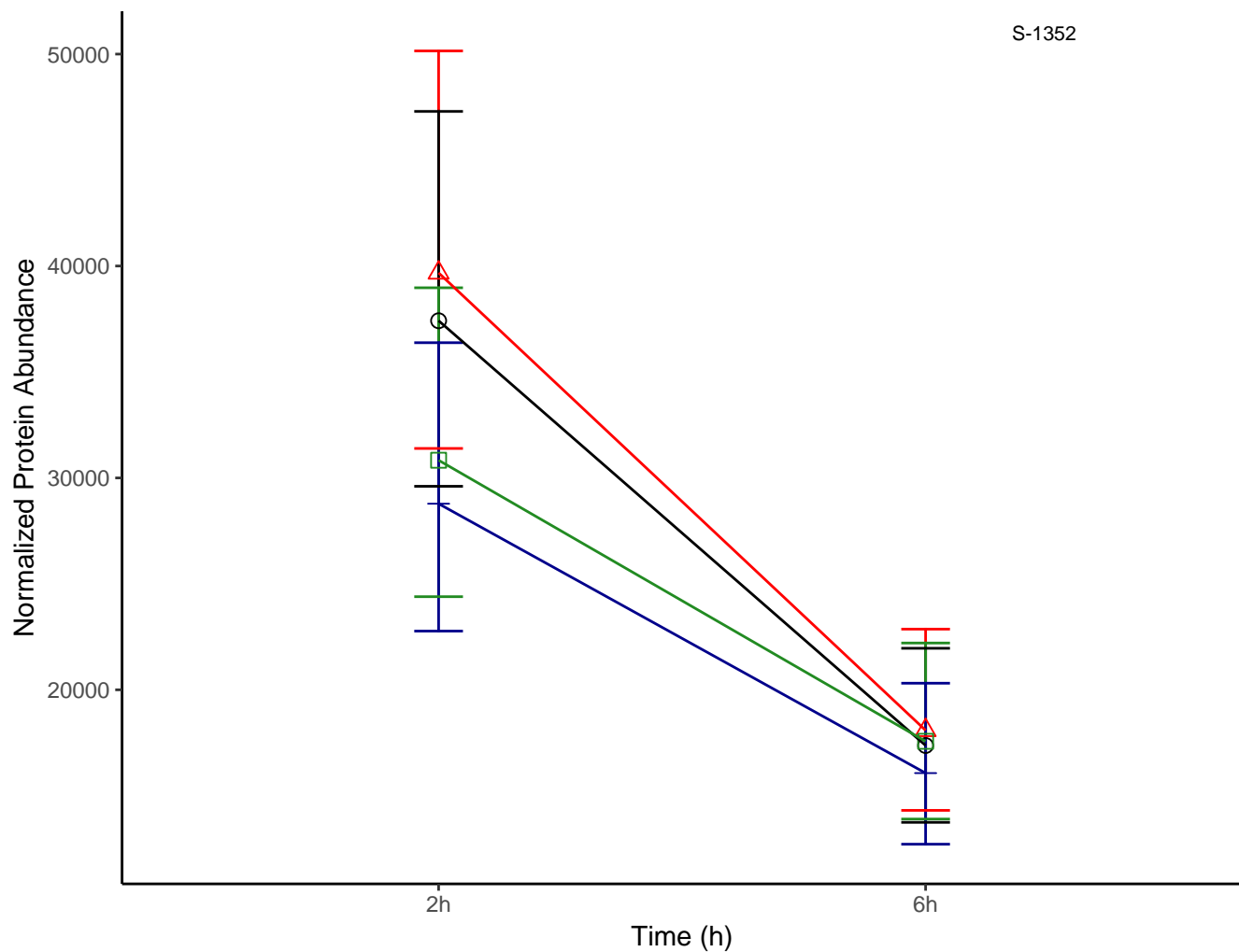
S-1351



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS10\_STAAM

S-1352

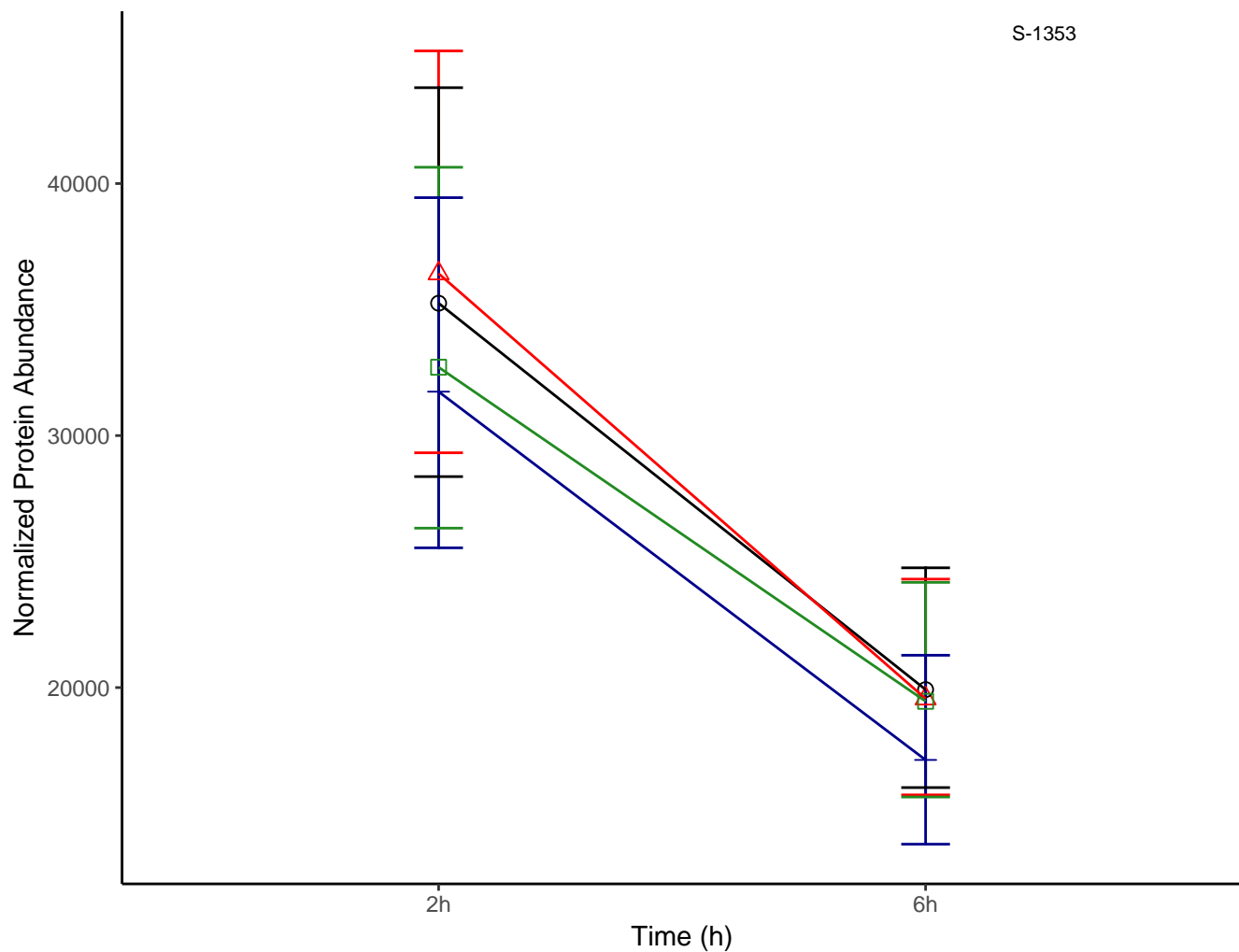


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RS11\_STAAM

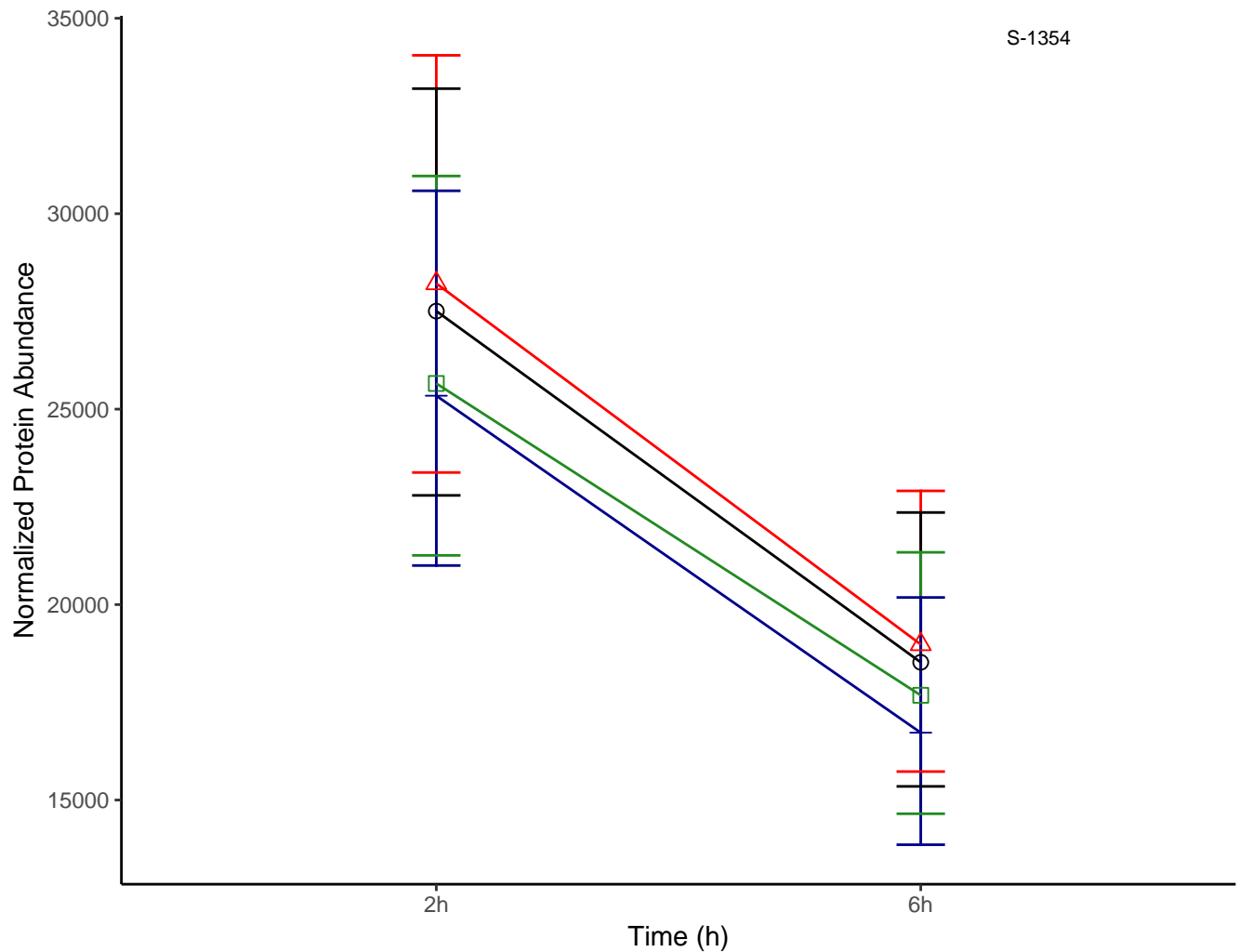
S-1353



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS12\_STAAM

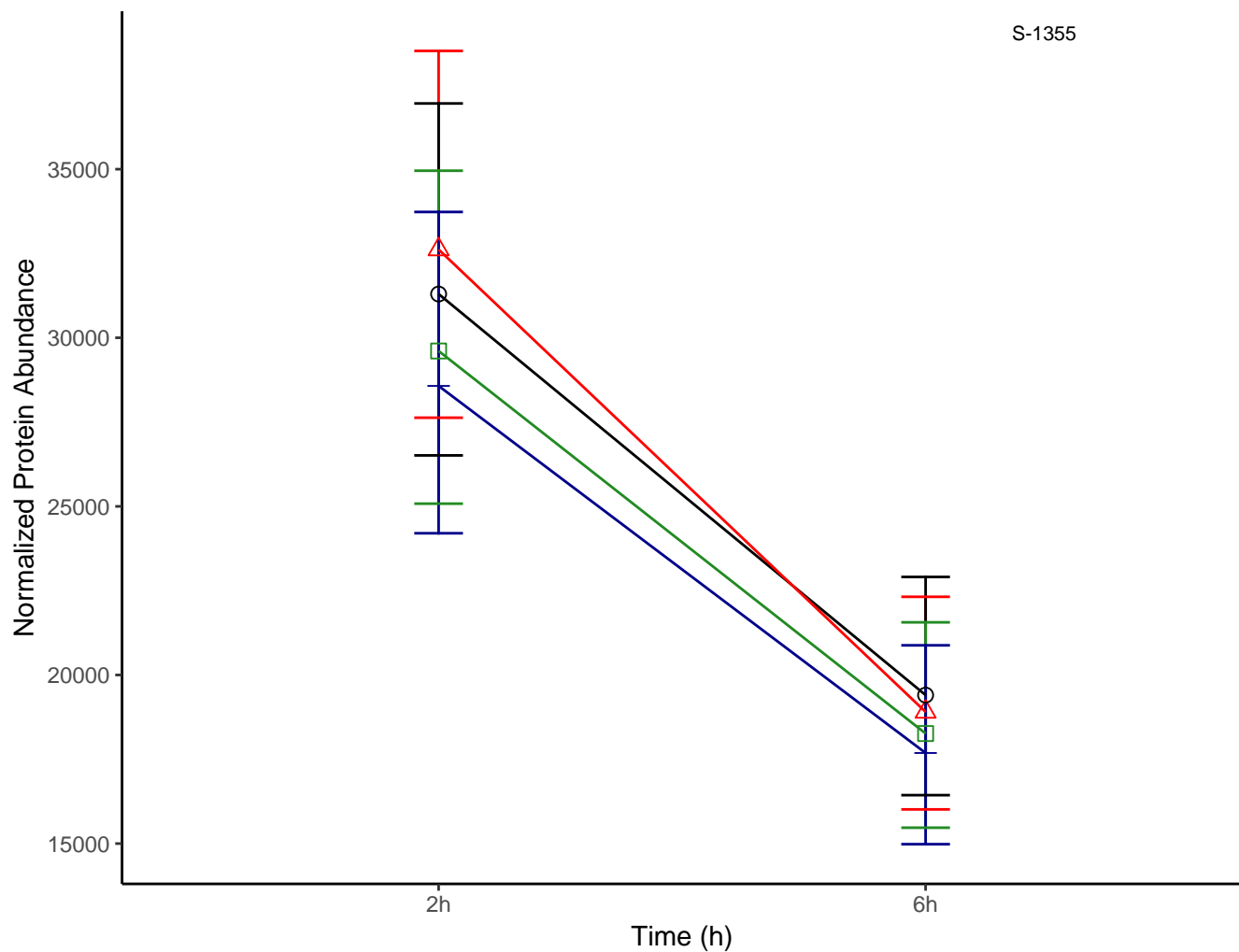
S-1354



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# RS13\_STAAM

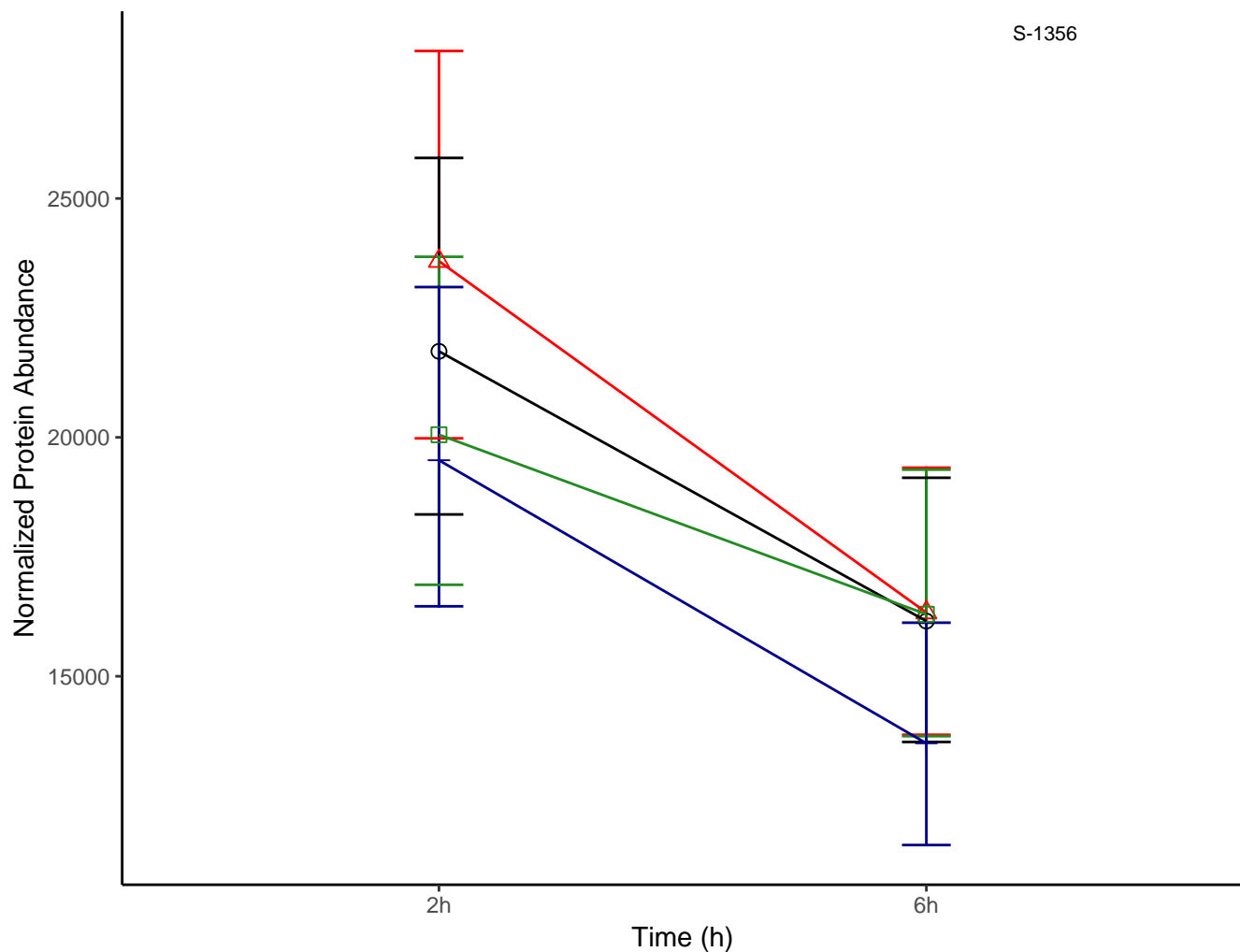
S-1355



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS15\_STAAM

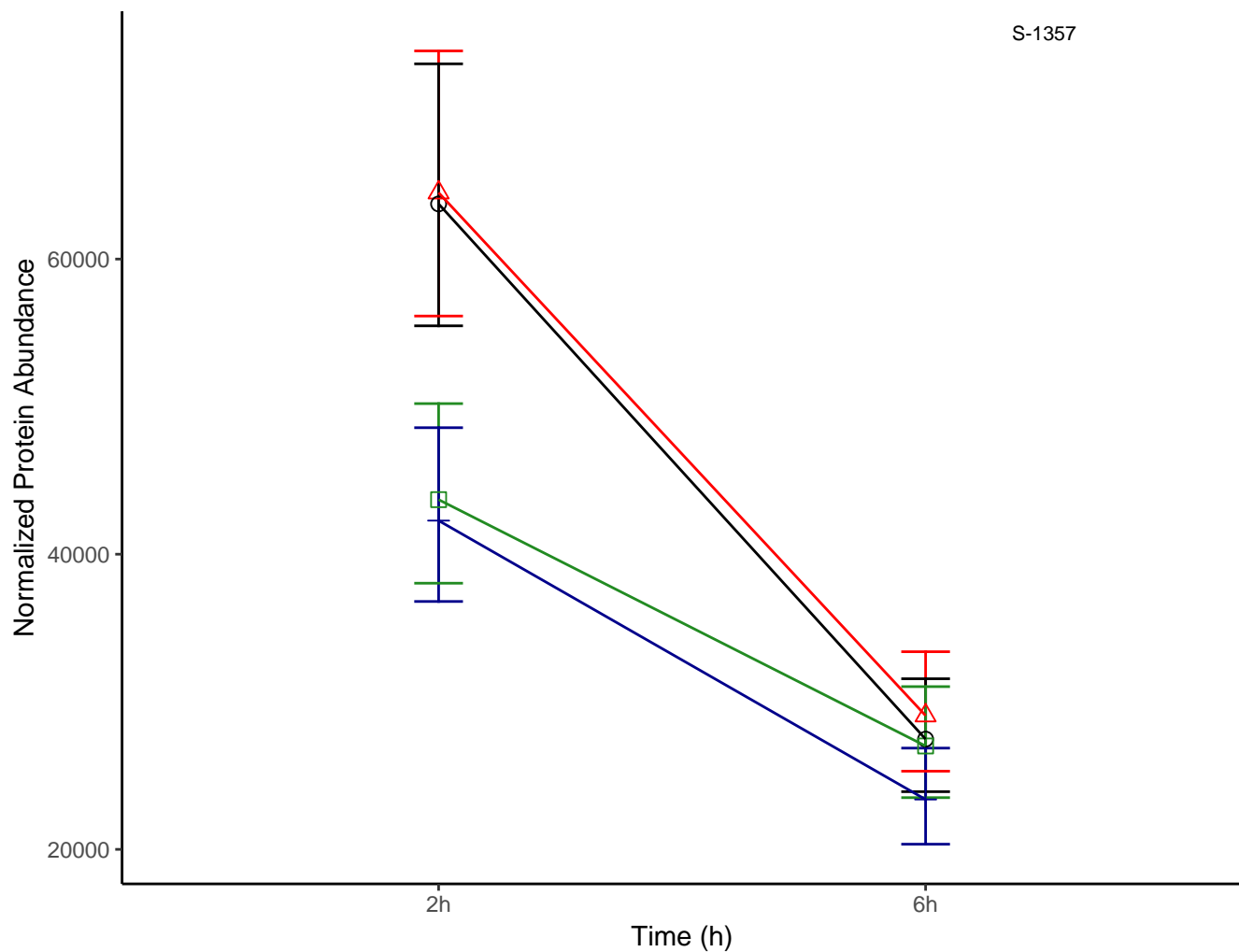
S-1356



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## RS16\_STAAM

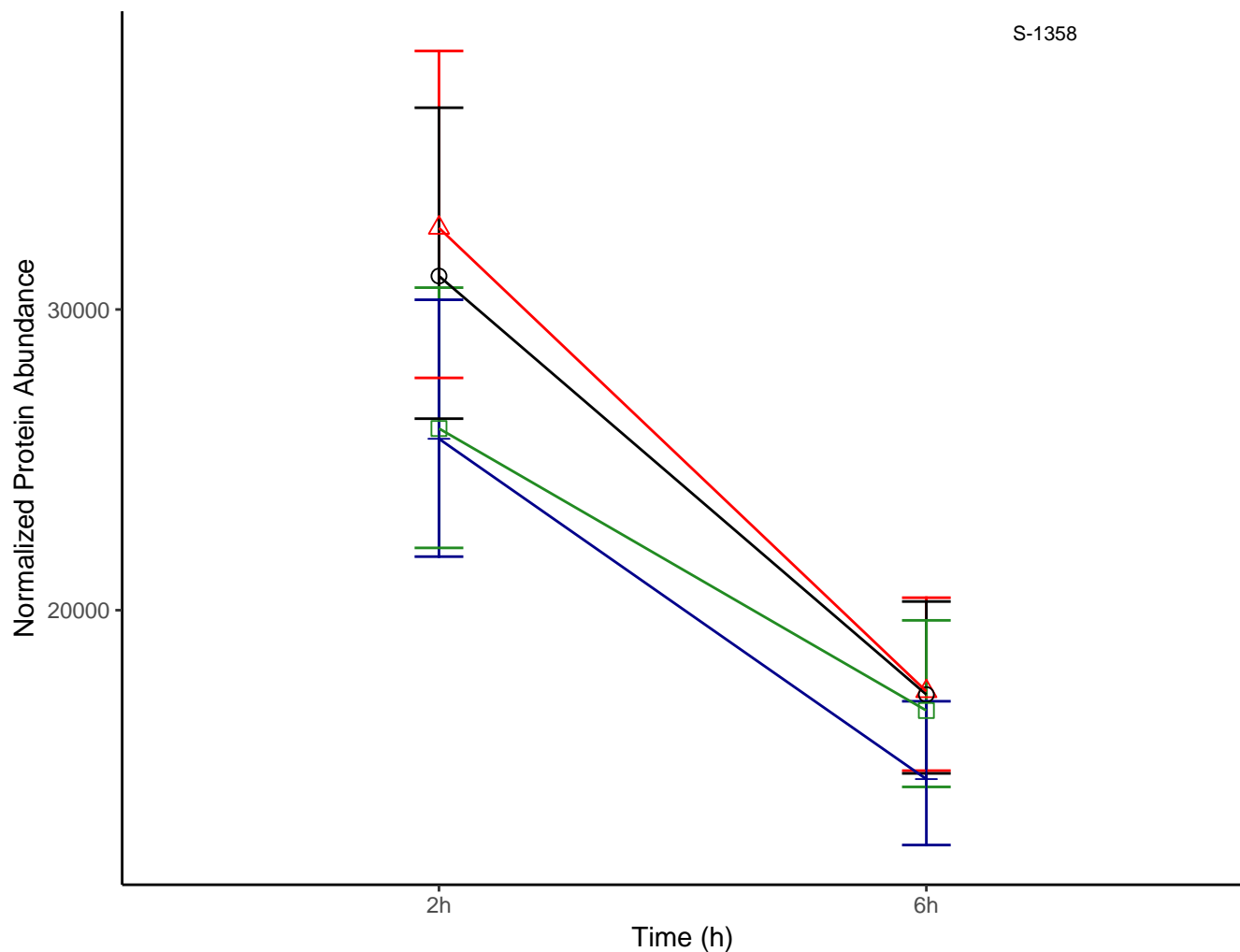
S-1357



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccbA$
- + SA564- $\Delta hptRS/ccpA$

# RS17\_STAAM

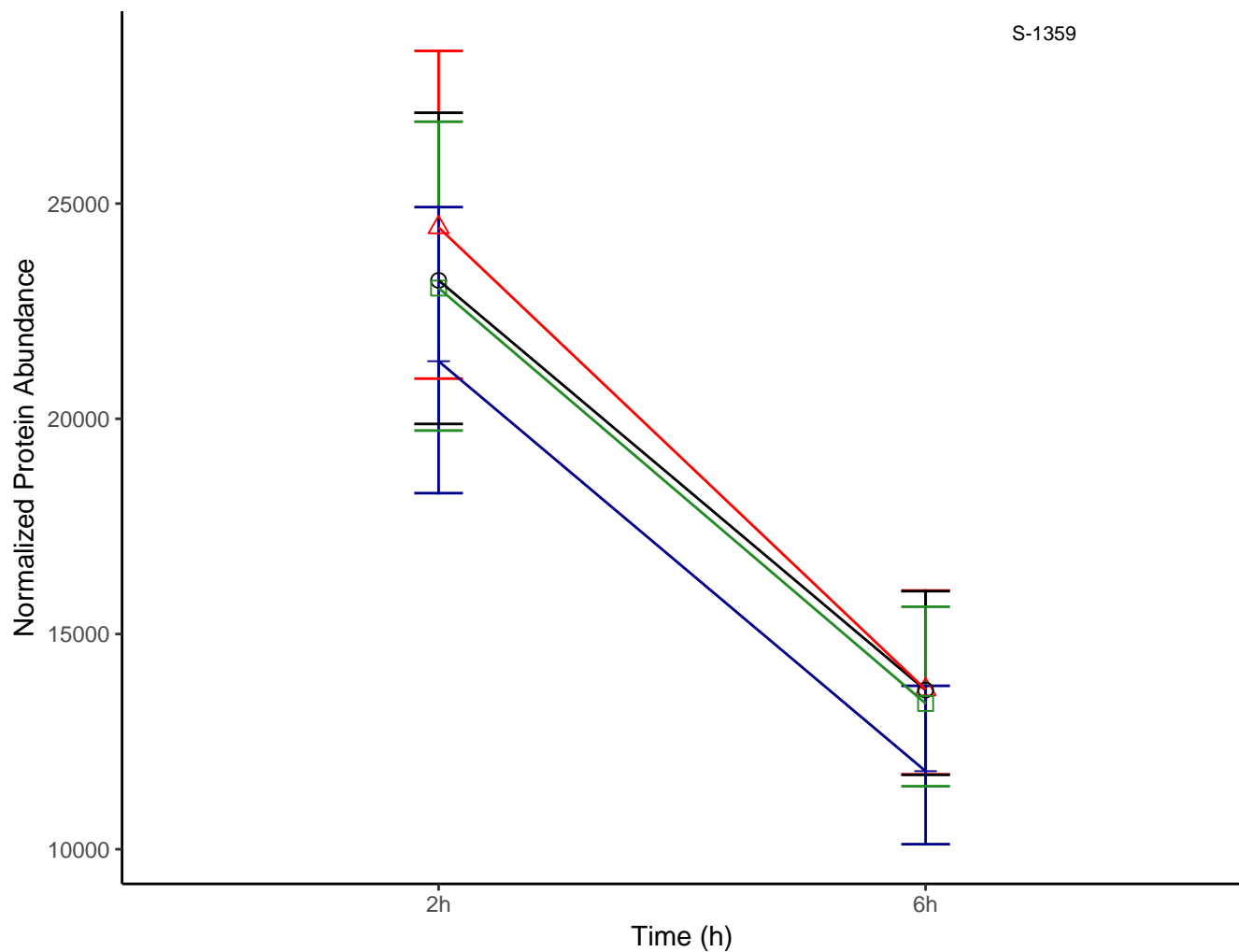
S-1358



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS18\_STAAM

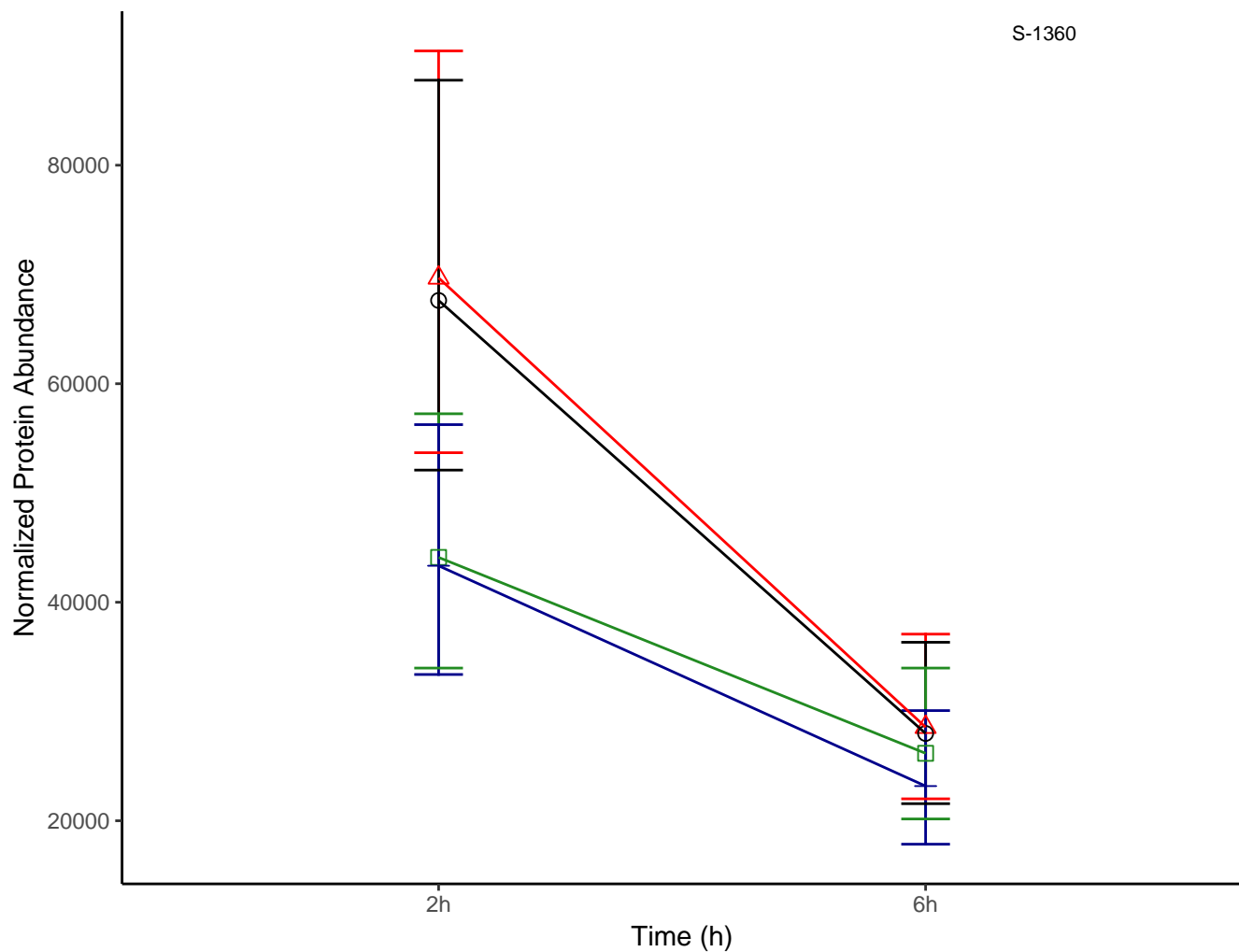
S-1359



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS19\_STAAM

S-1360

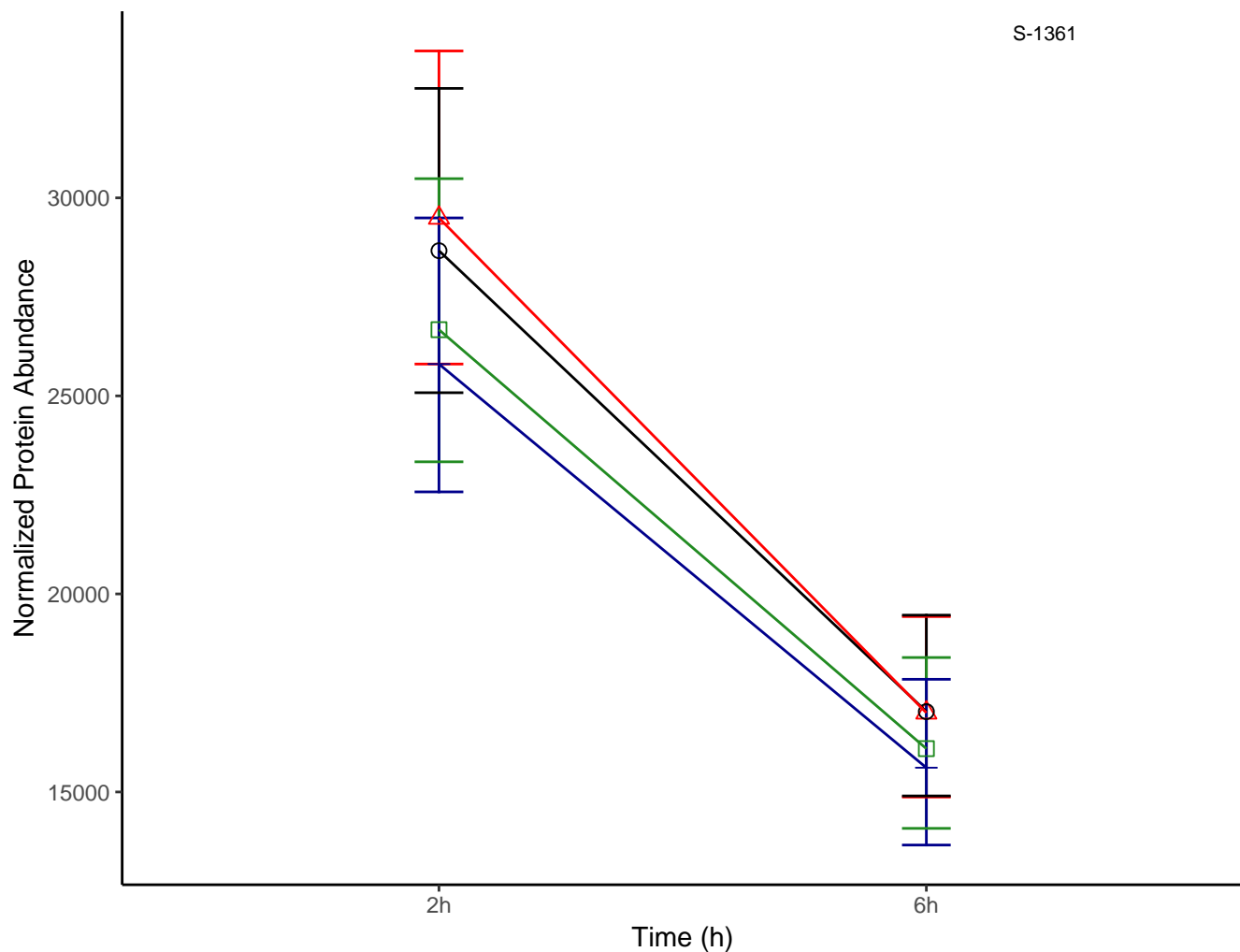


- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



# RS2\_STAAM

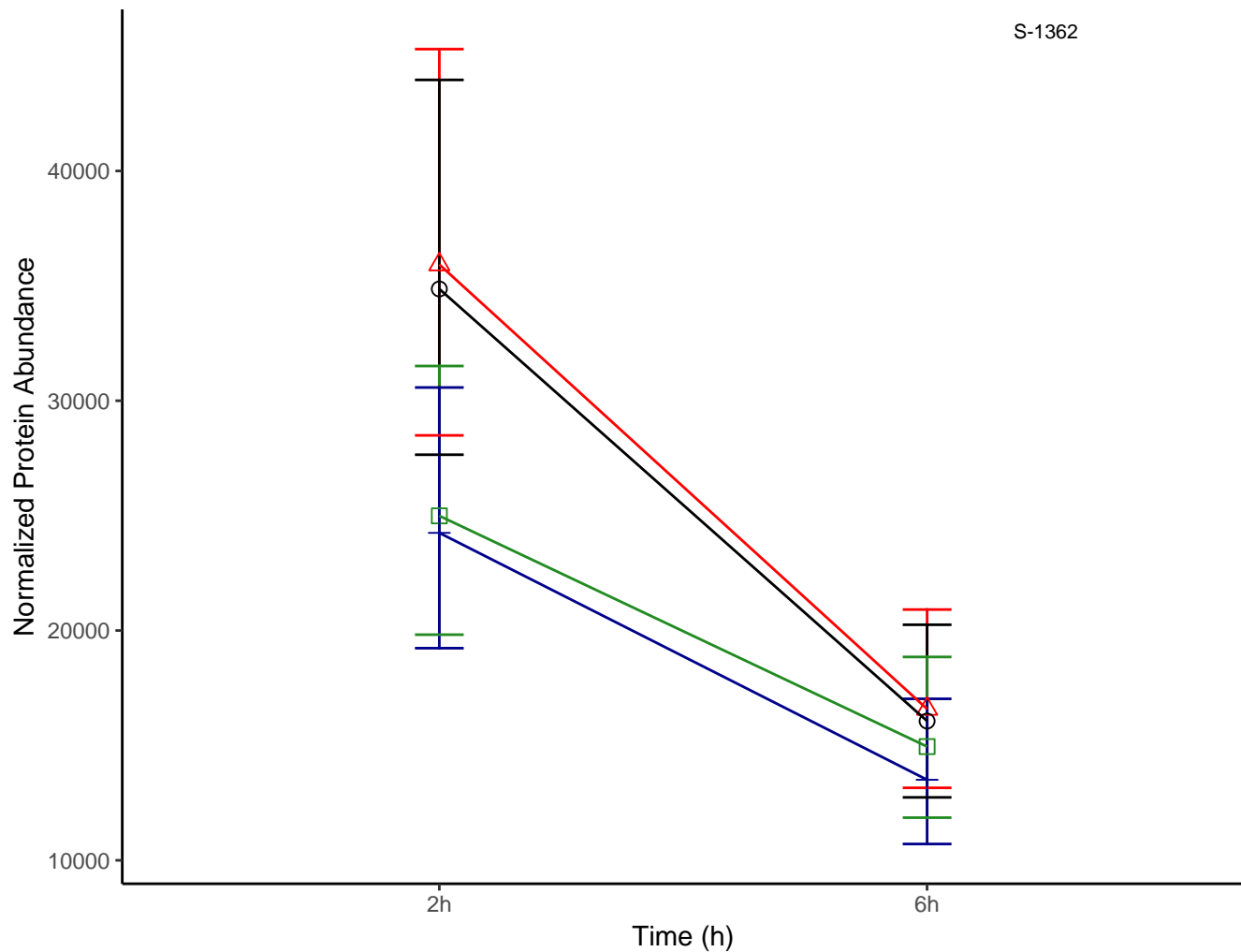
S-1361



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RS20\_STAAM

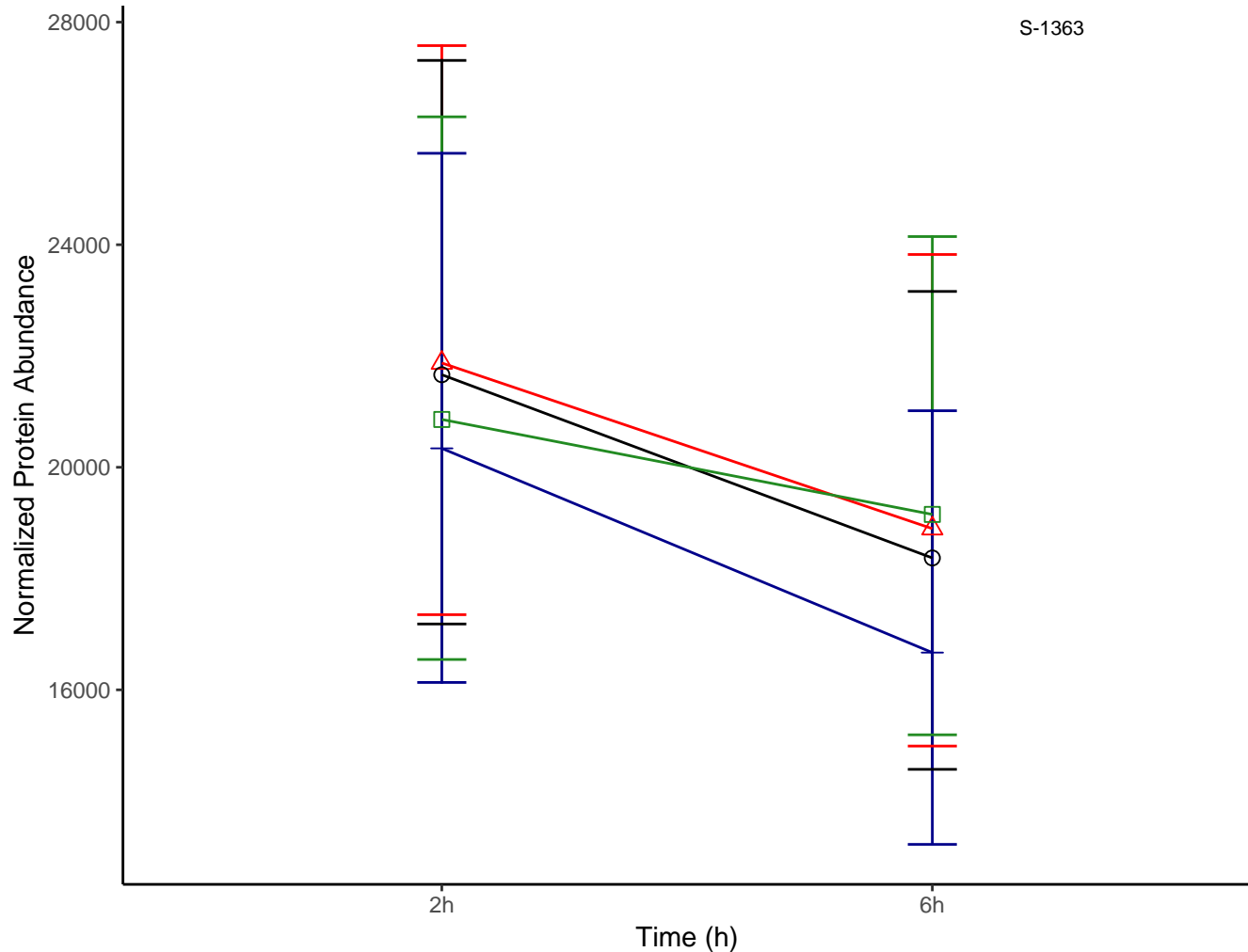
S-1362



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## RS21\_STAAM

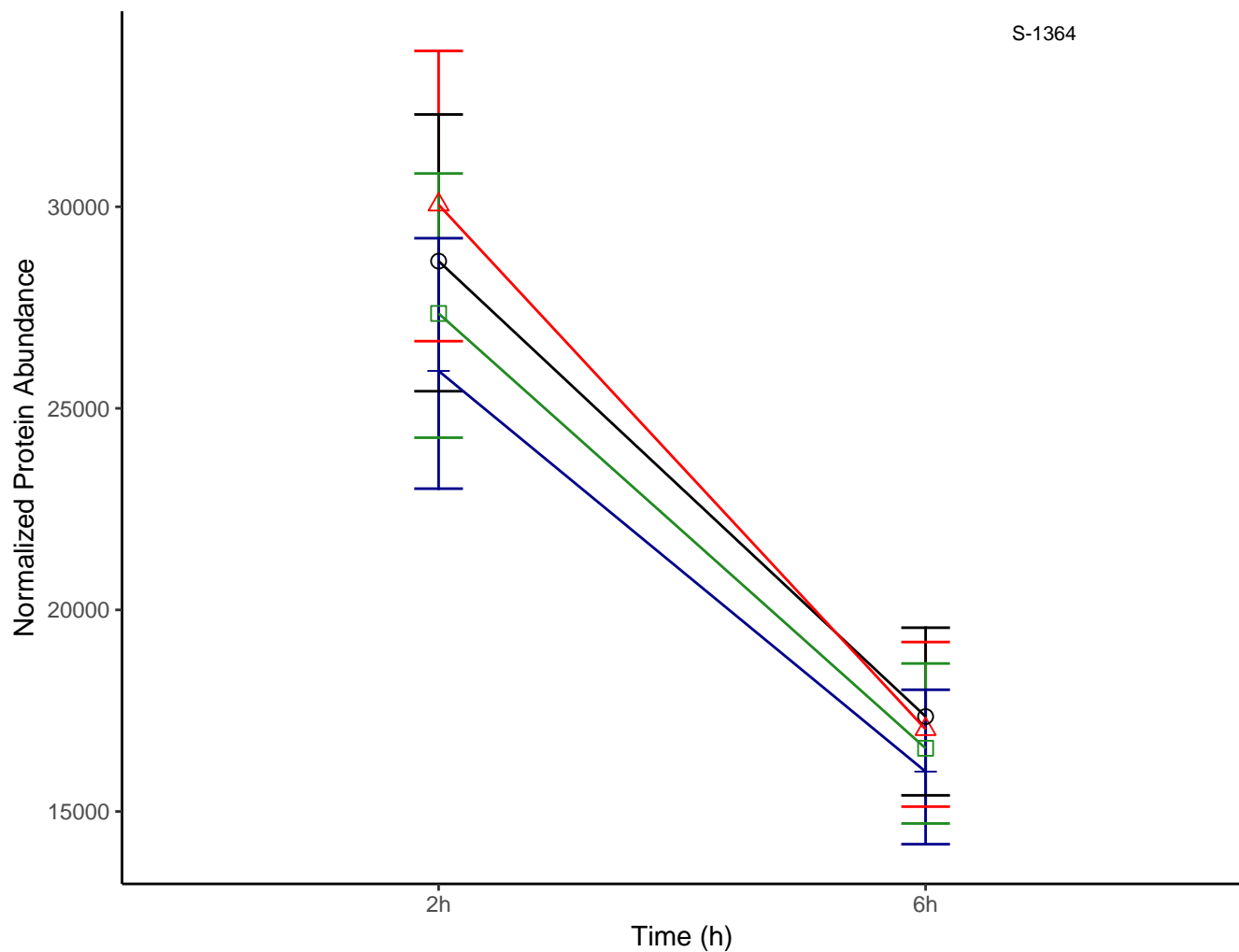
S-1363



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS3\_STAAM

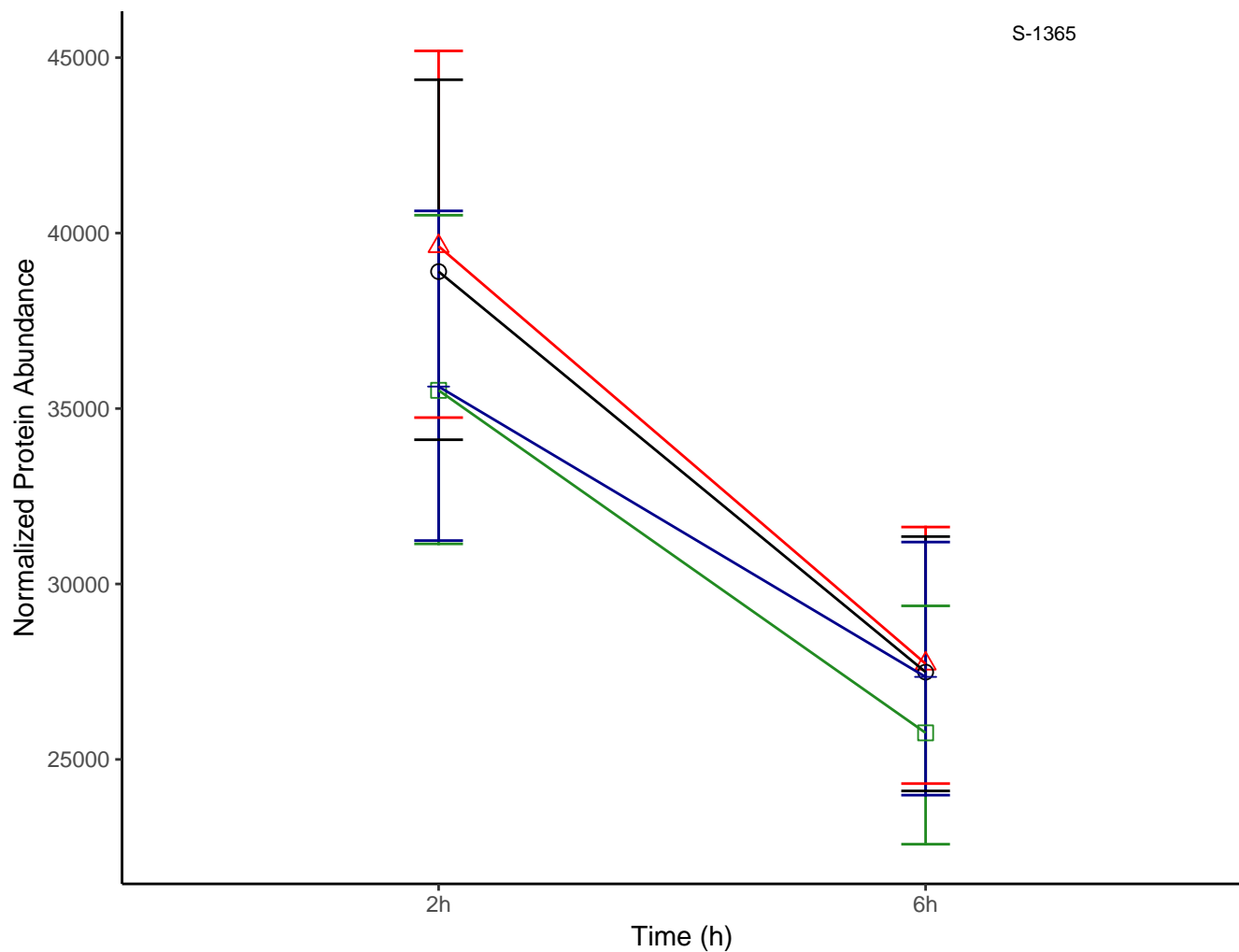
S-1364



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS4\_STAAM

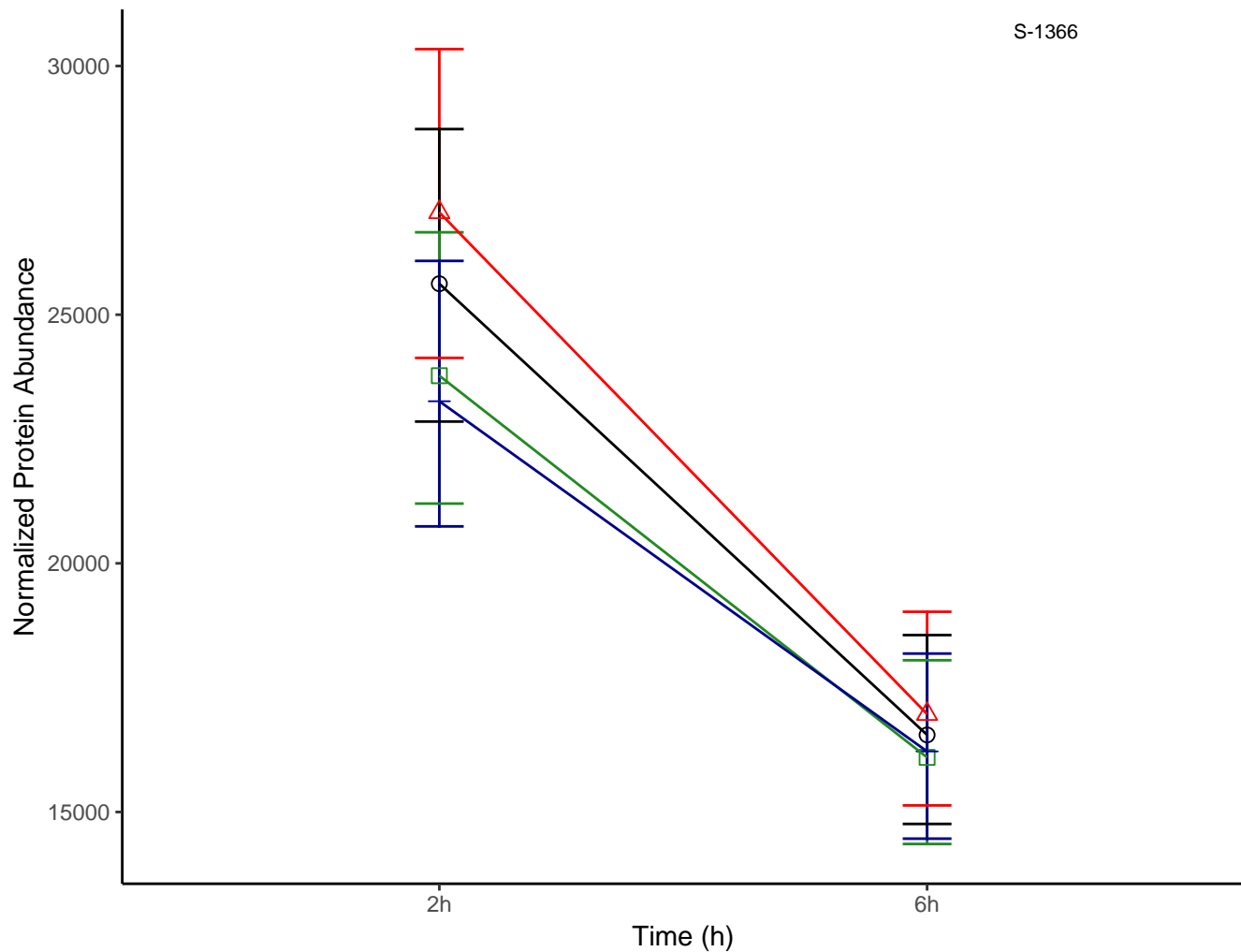
S-1365



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS5\_STAAM

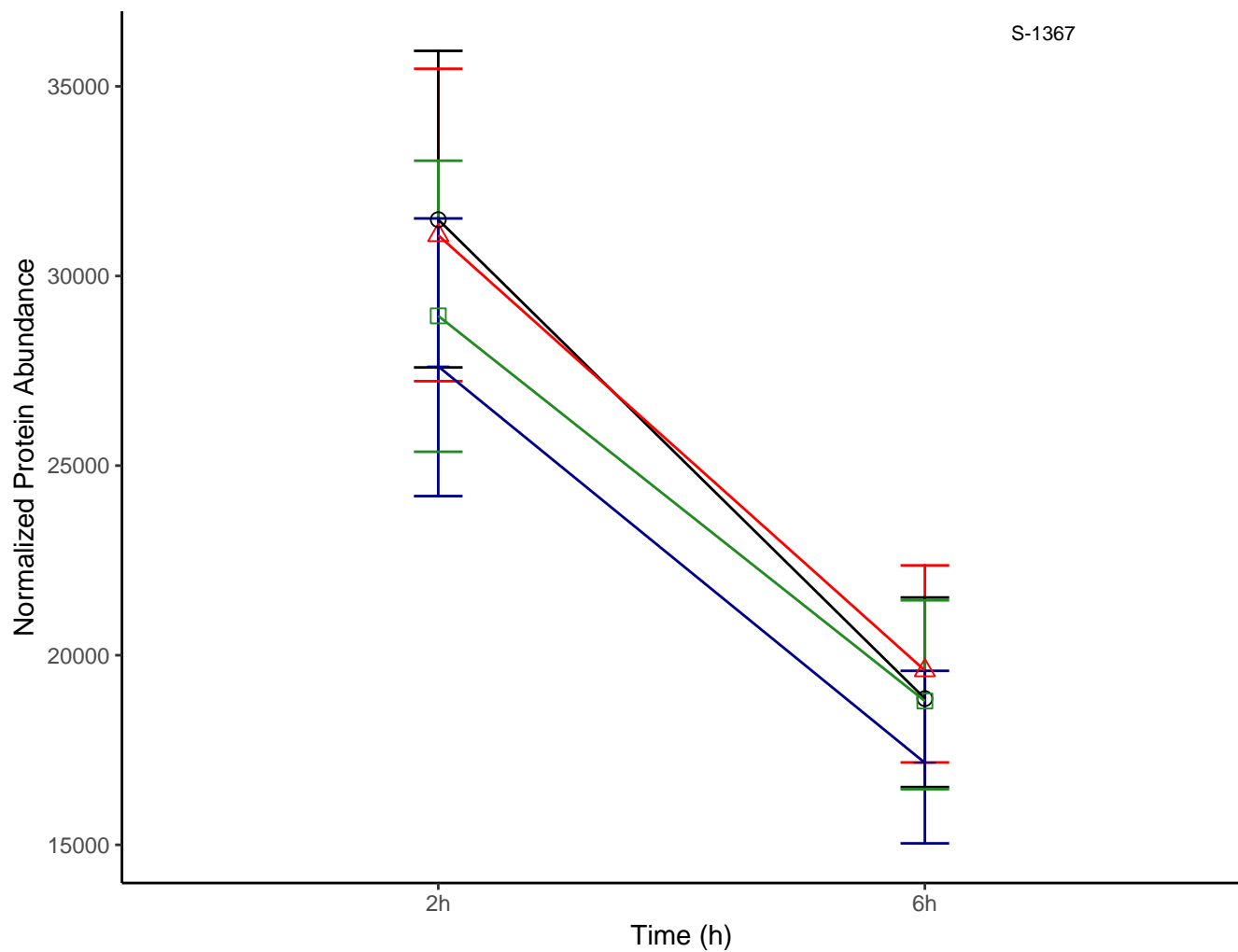
S-1366



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS6\_STAAM

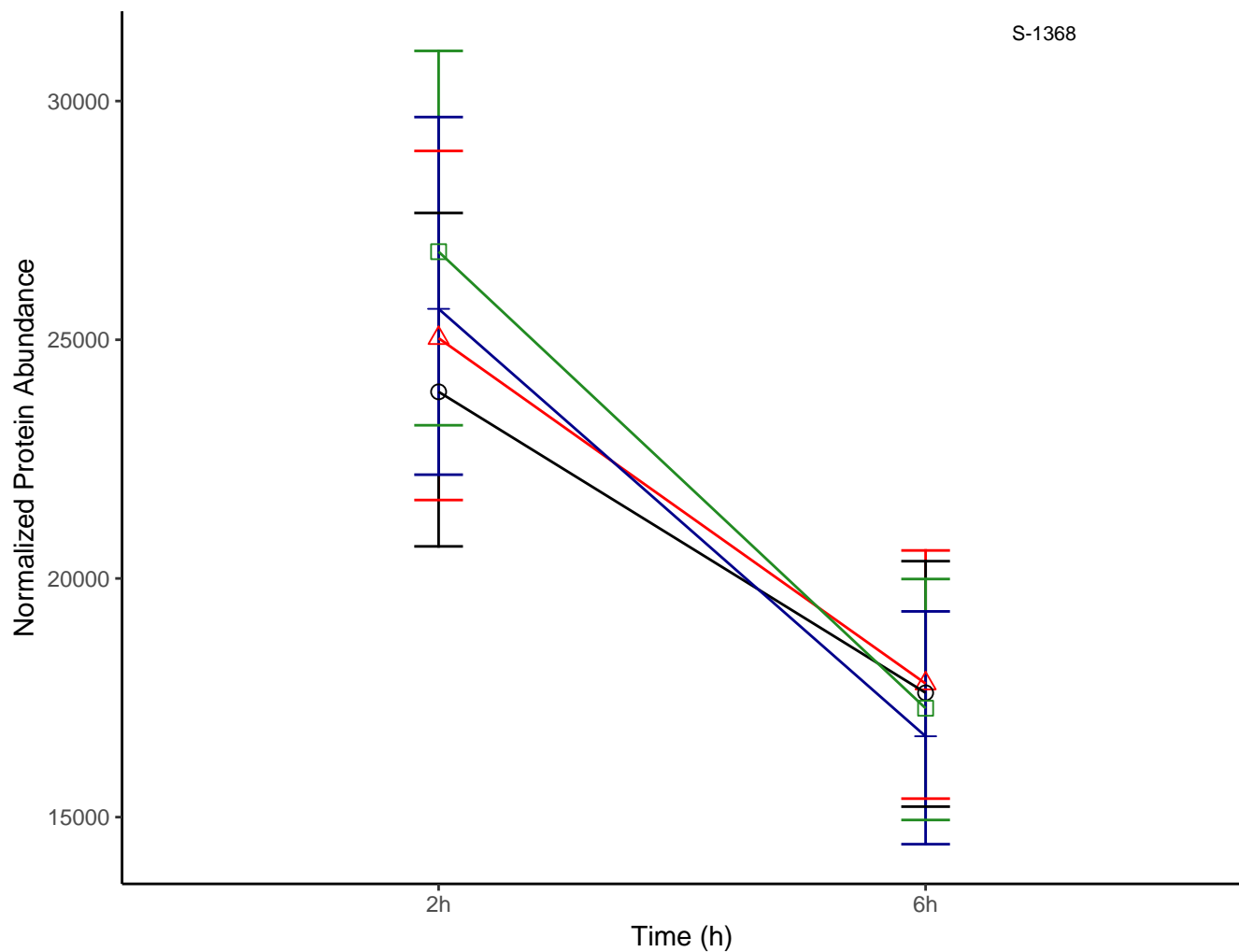
S-1367



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS7\_STAAM

S-1368

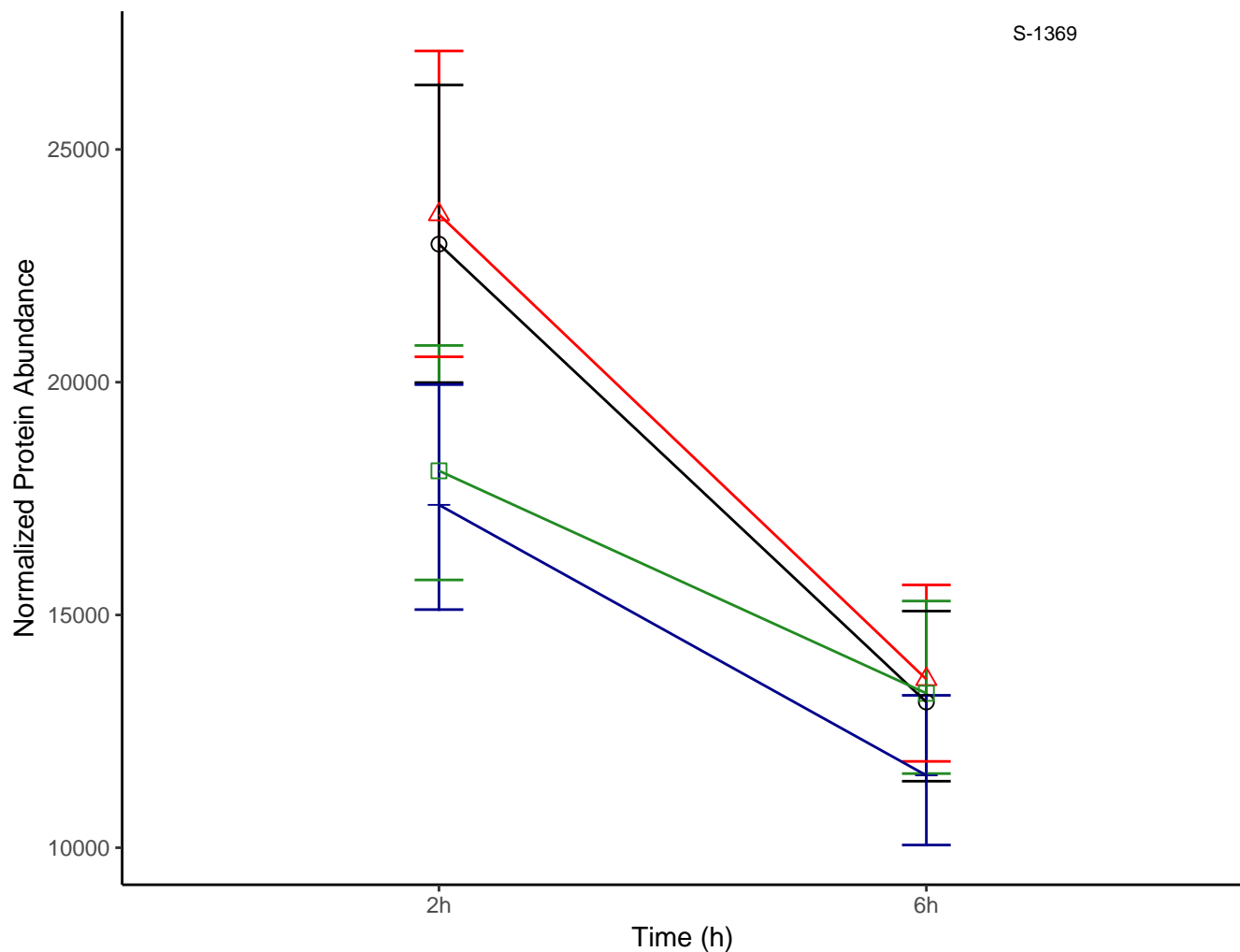


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# RS8\_STAAM

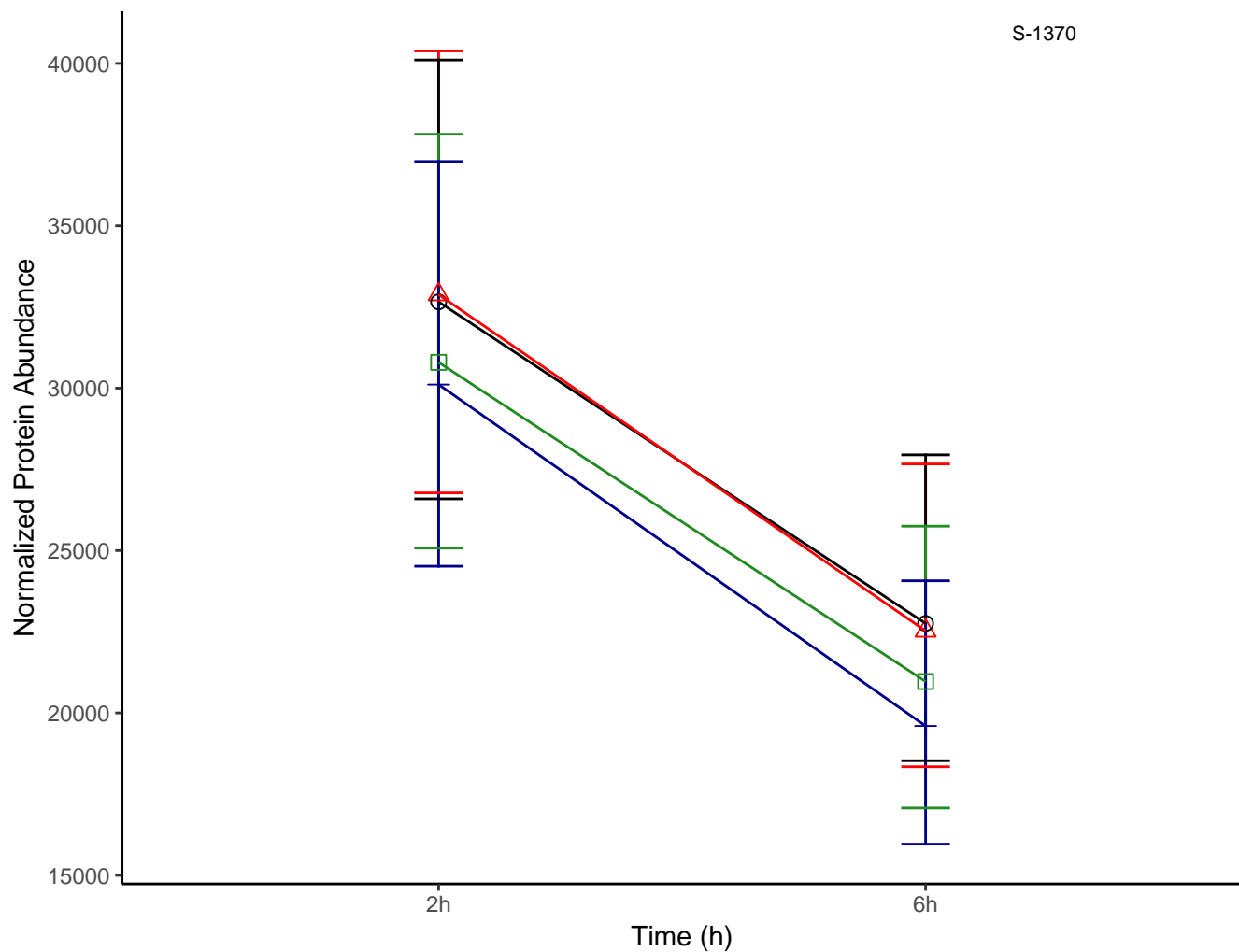
S-1369



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# RS9\_STAAM

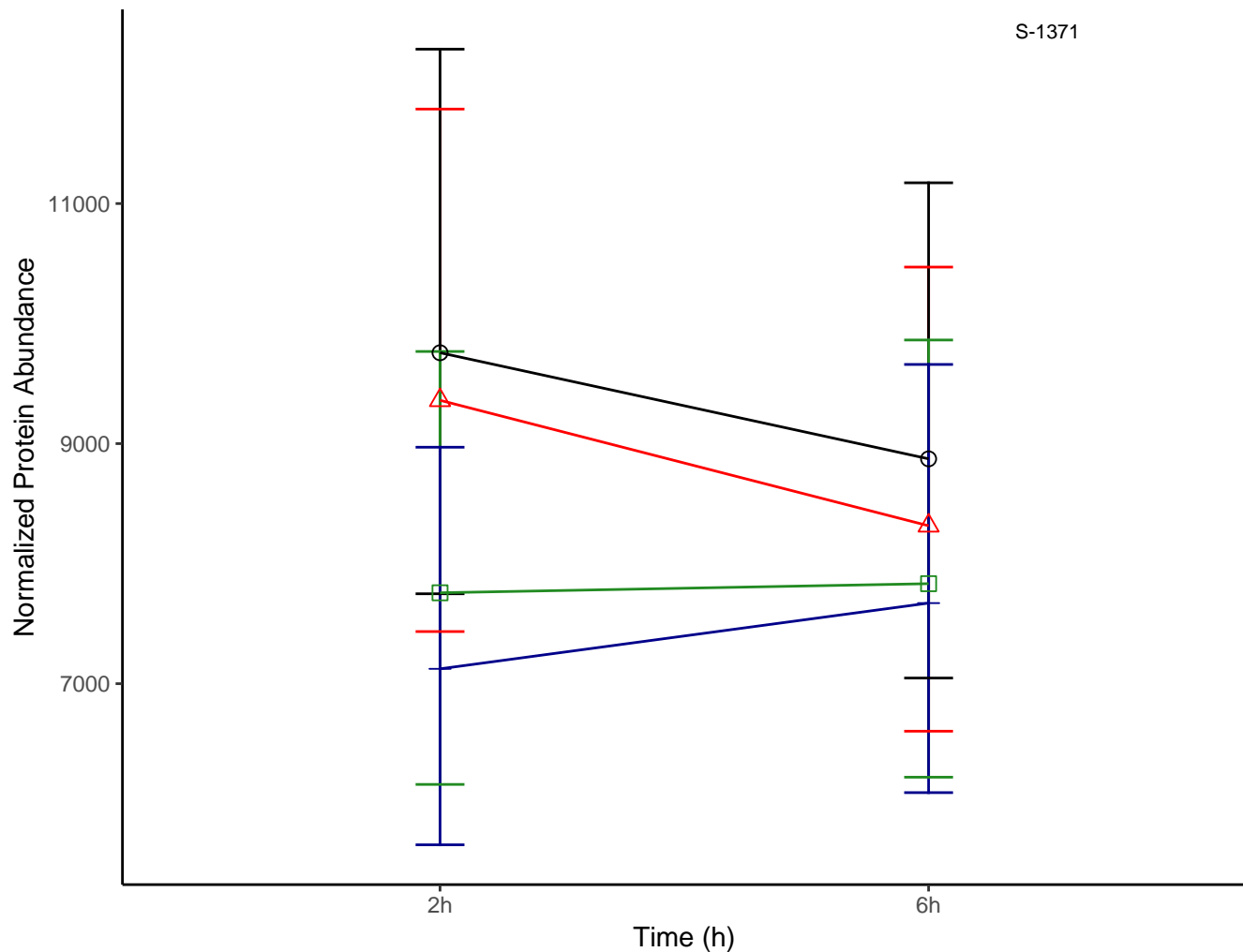
S-1370



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## RSBV\_STAAM

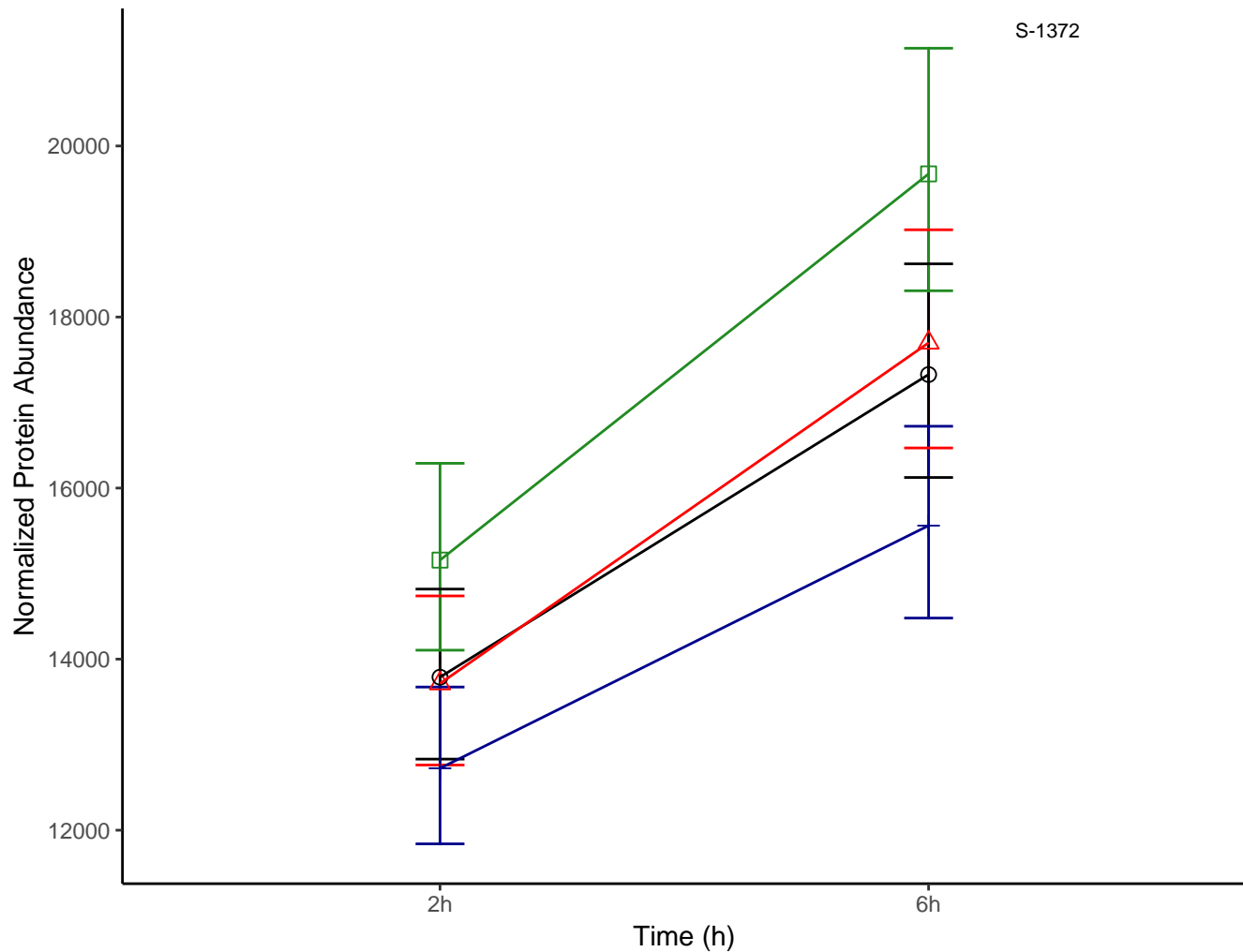
S-1371



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RSBW\_STAAM

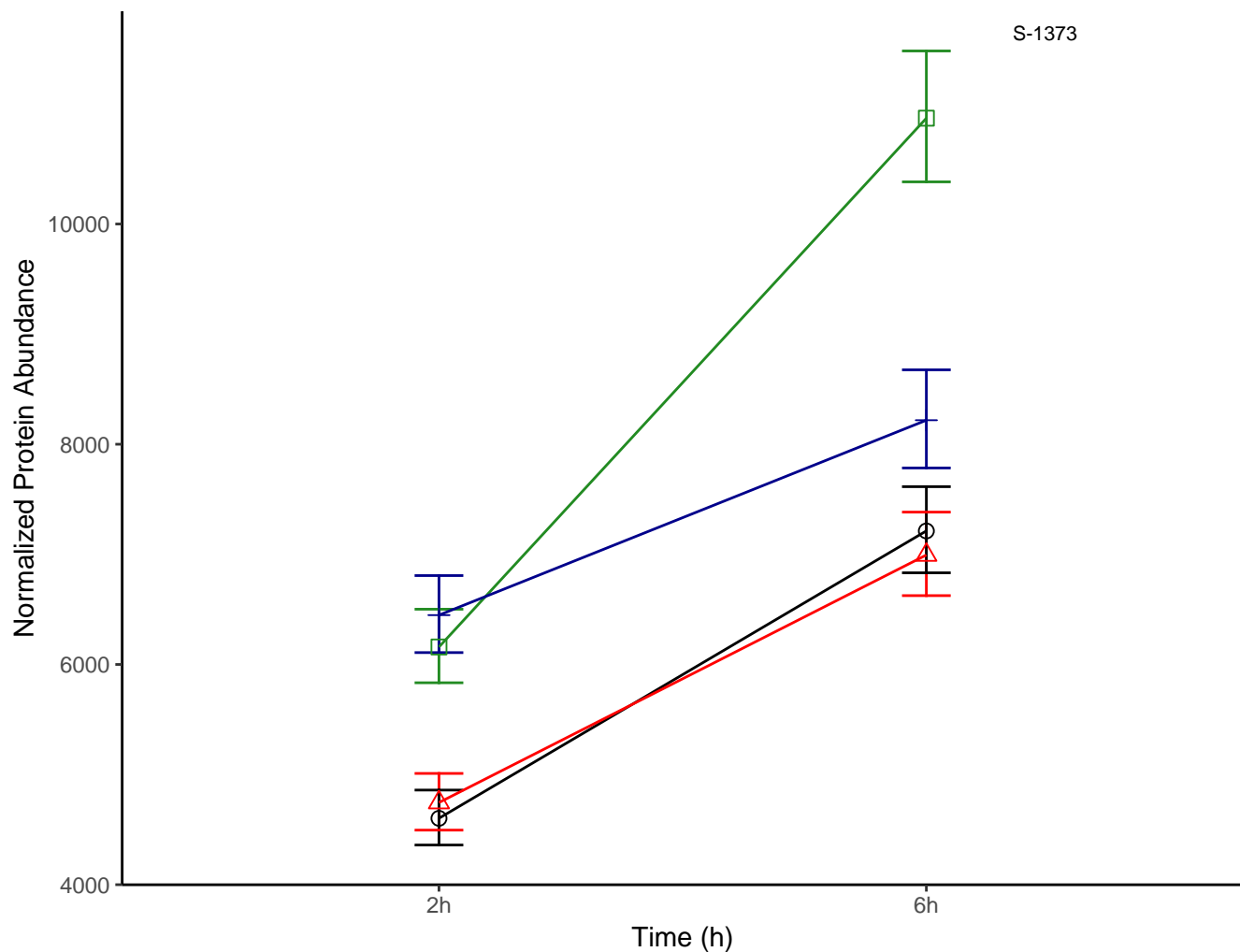
S-1372



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RSMA\_STAAM

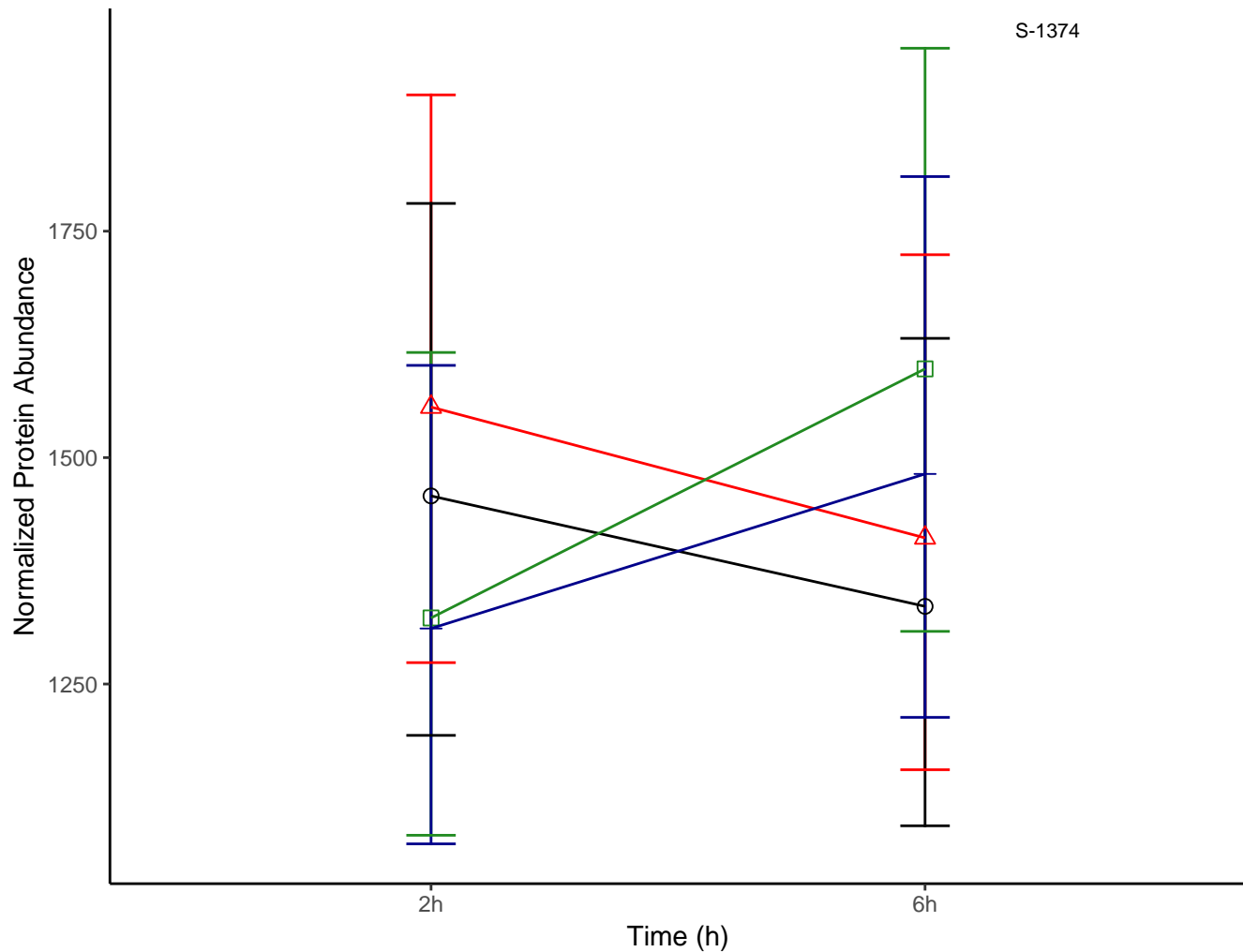
S-1373



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RSMG\_STAAM

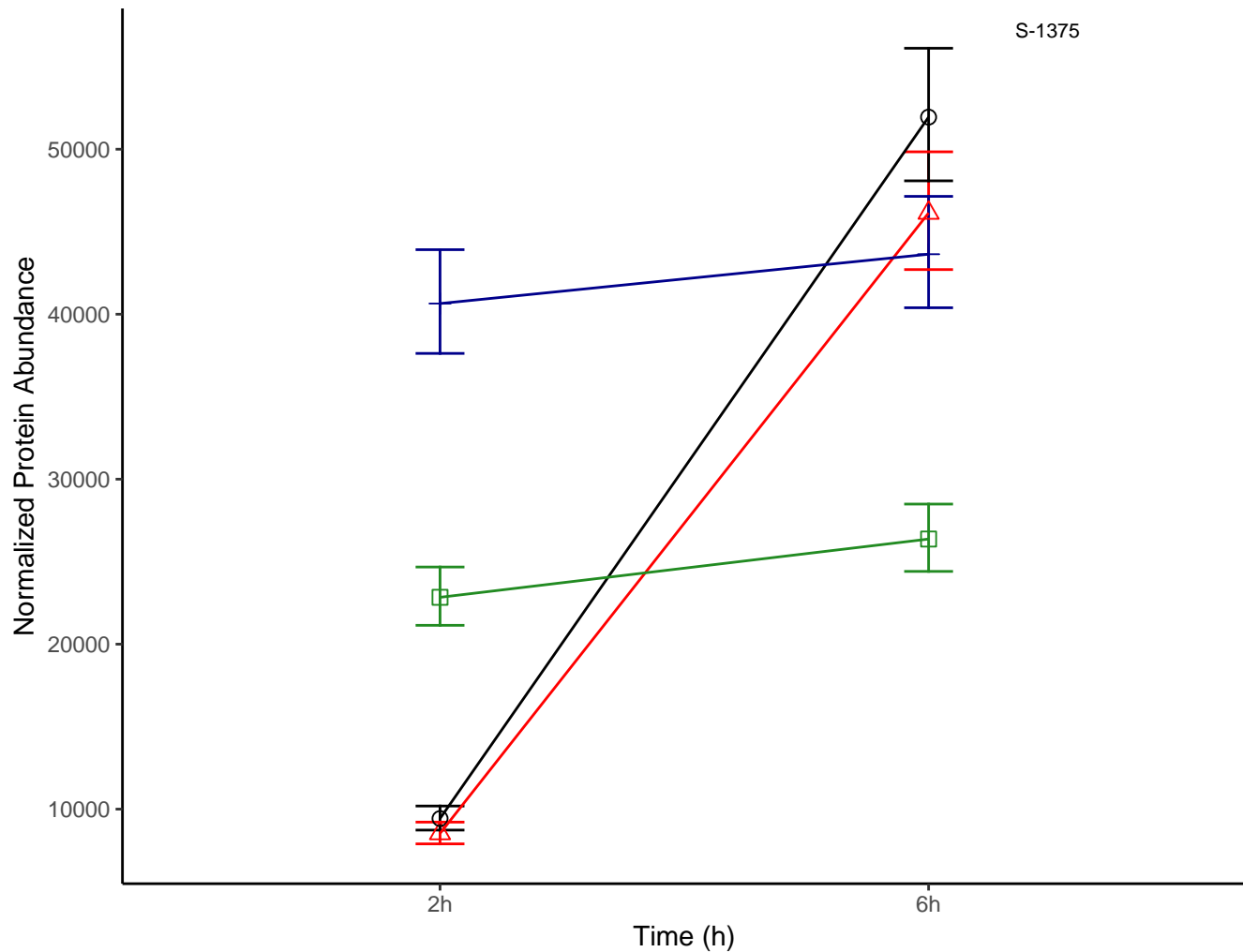
S-1374



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RUVX\_STAAM

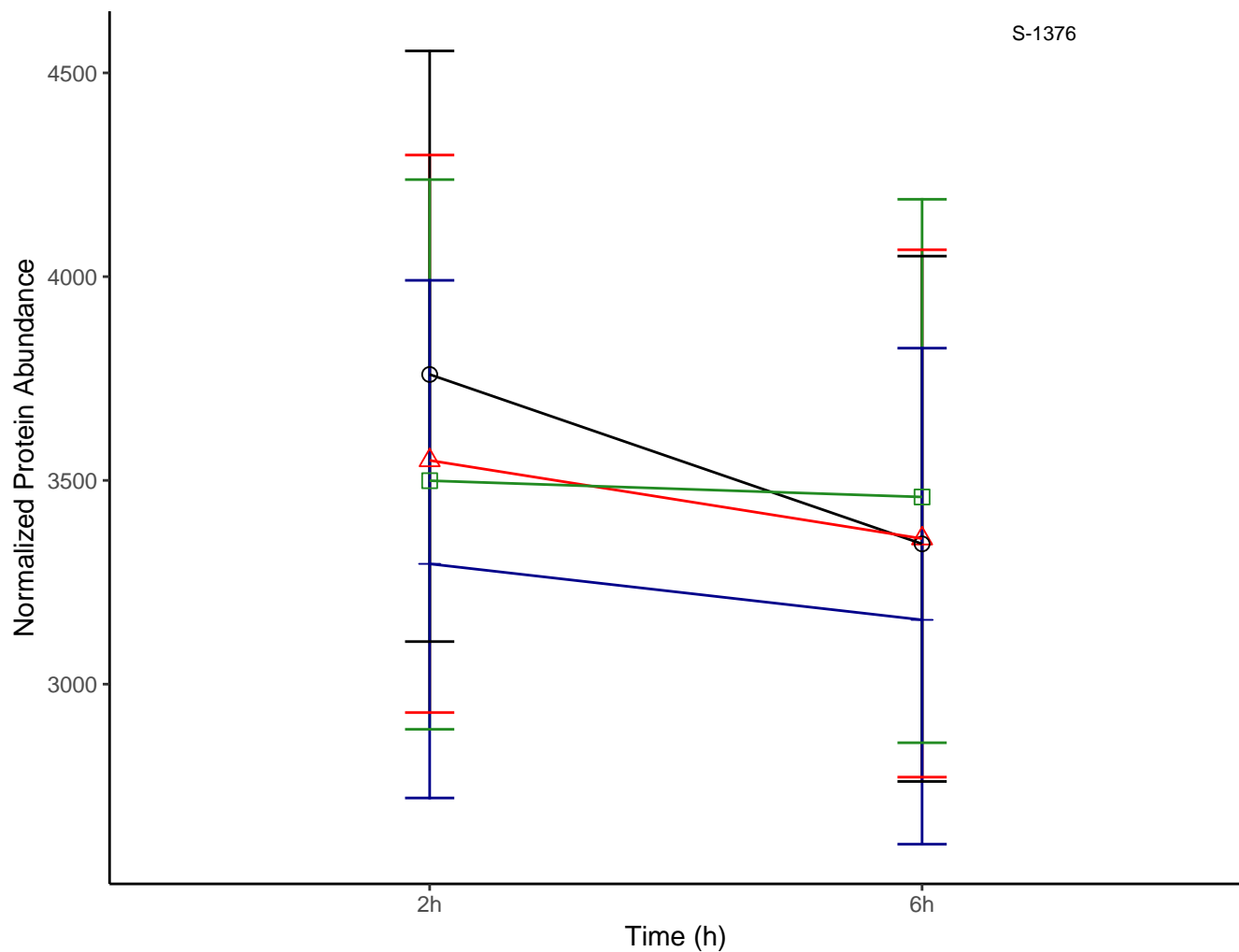
S-1375



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# S3AD\_STAAM

S-1376

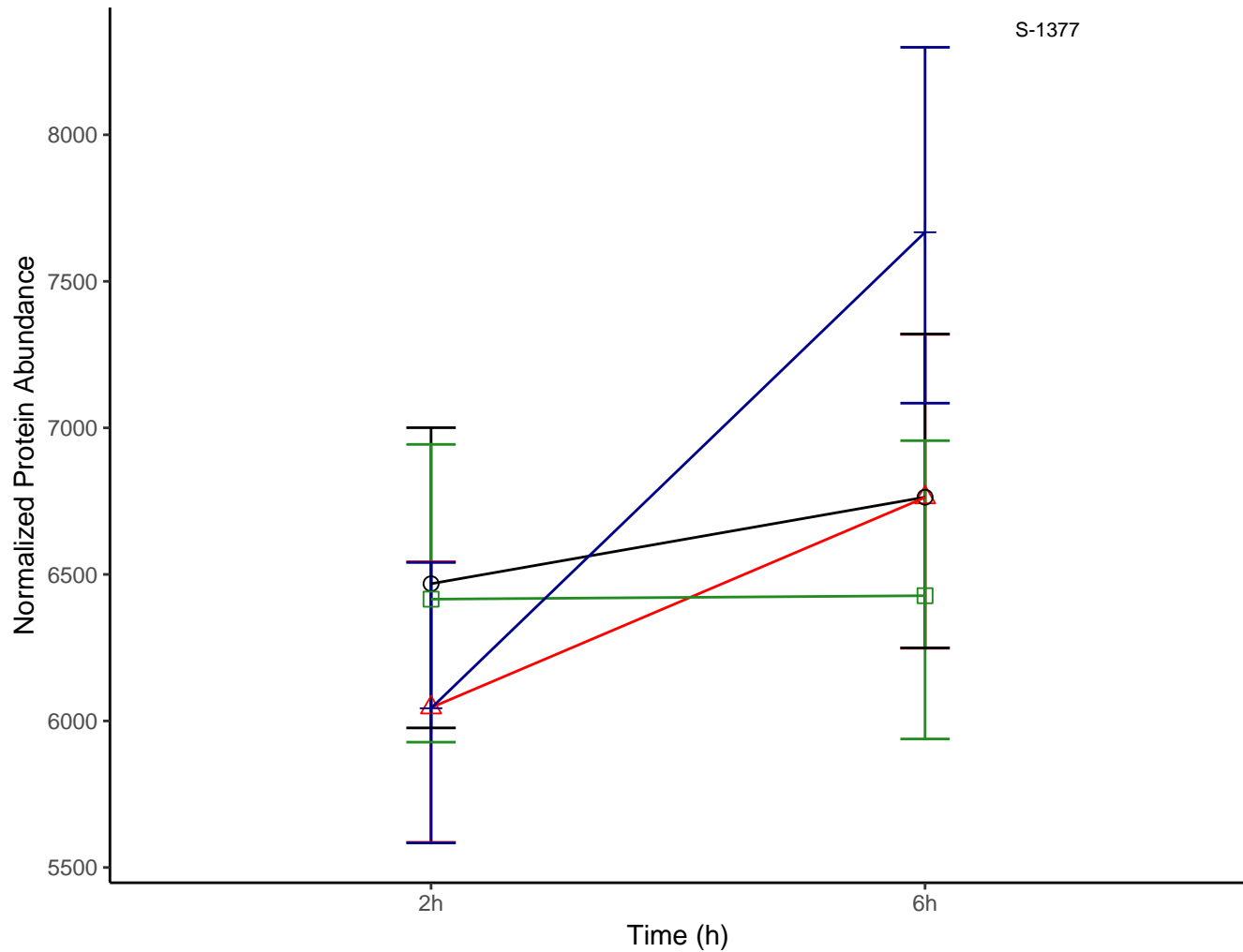


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SAER\_STAAM

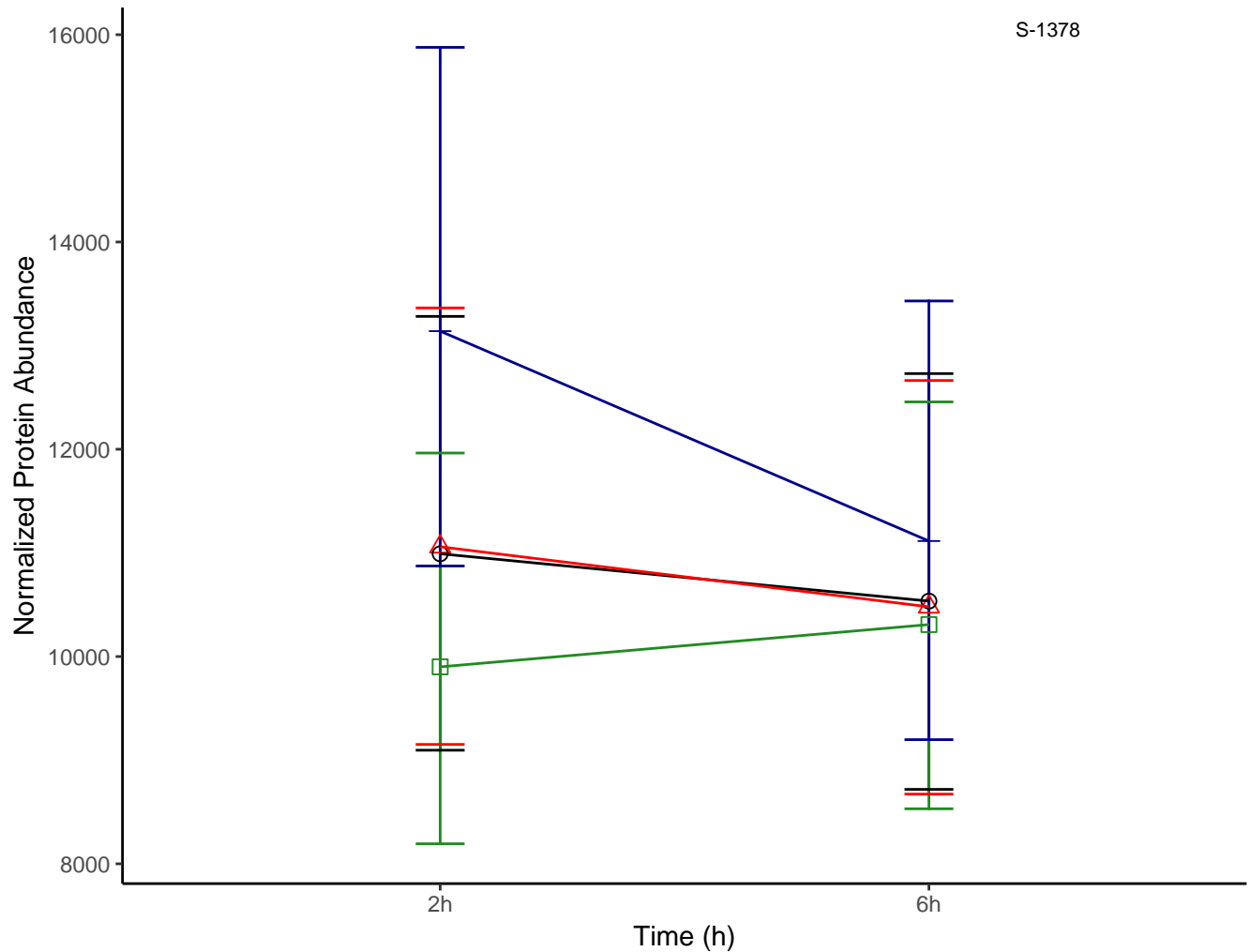
S-1377



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SARA\_STAAM

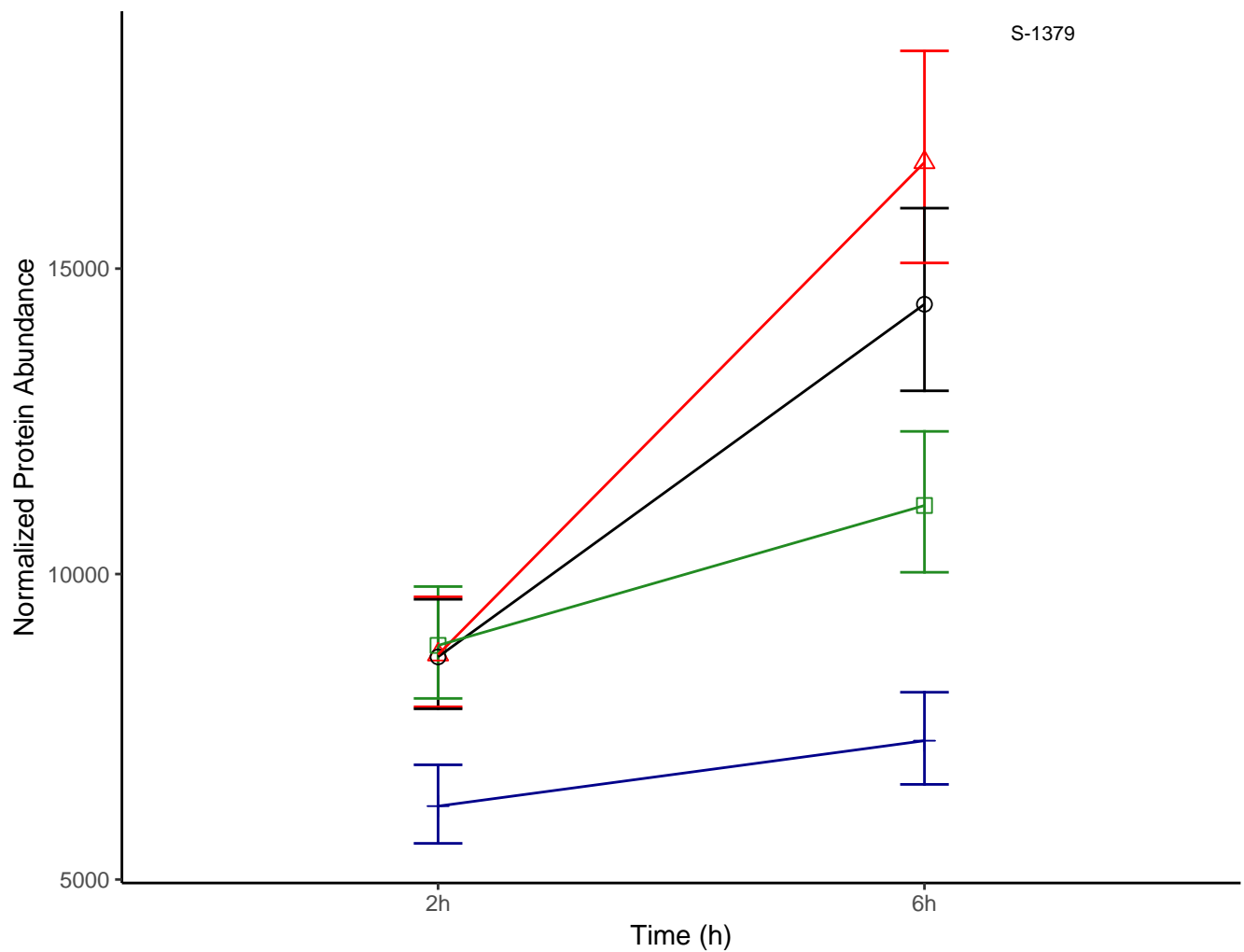
S-1378



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SARR\_STAAM

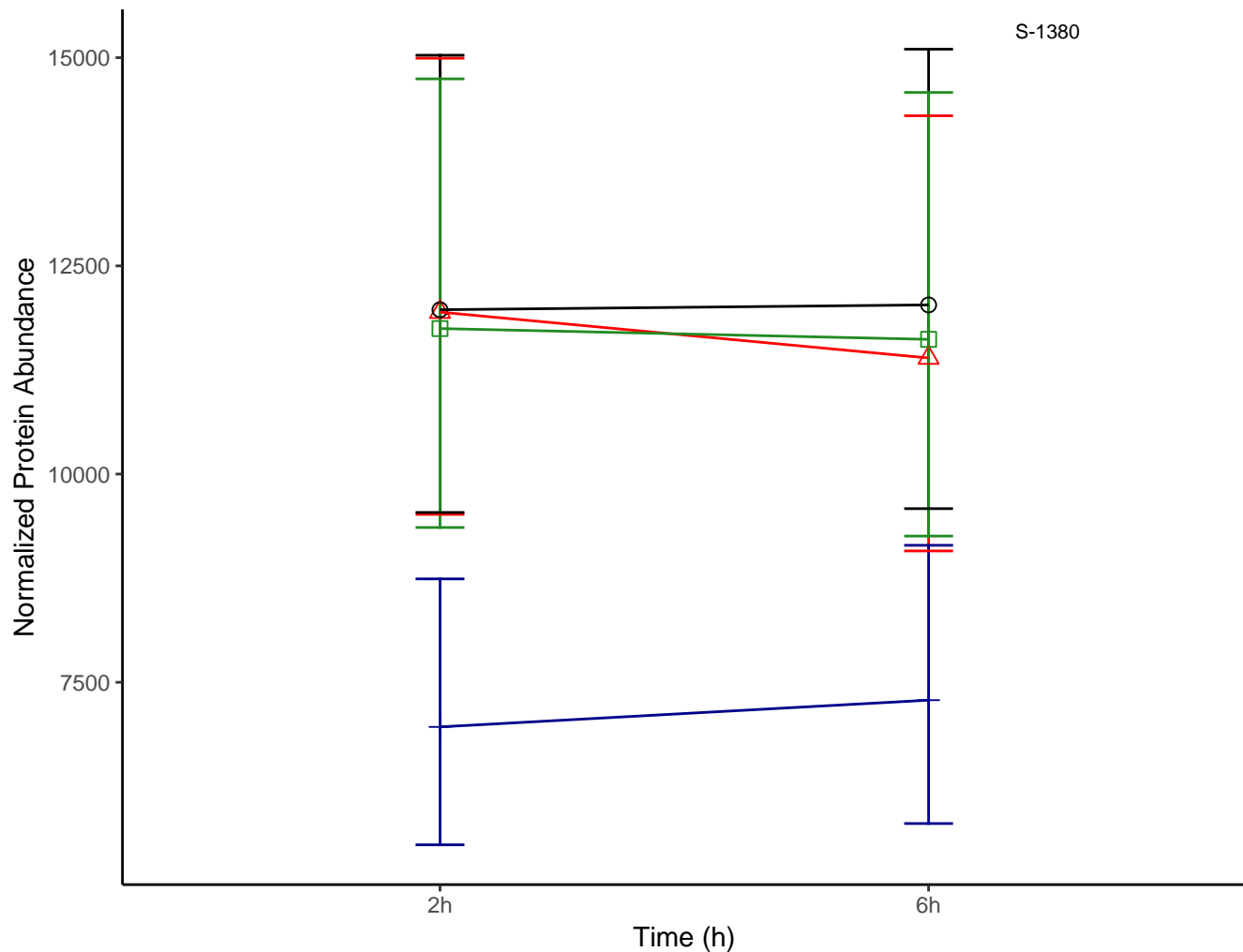
S-1379



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SARS\_STAAM

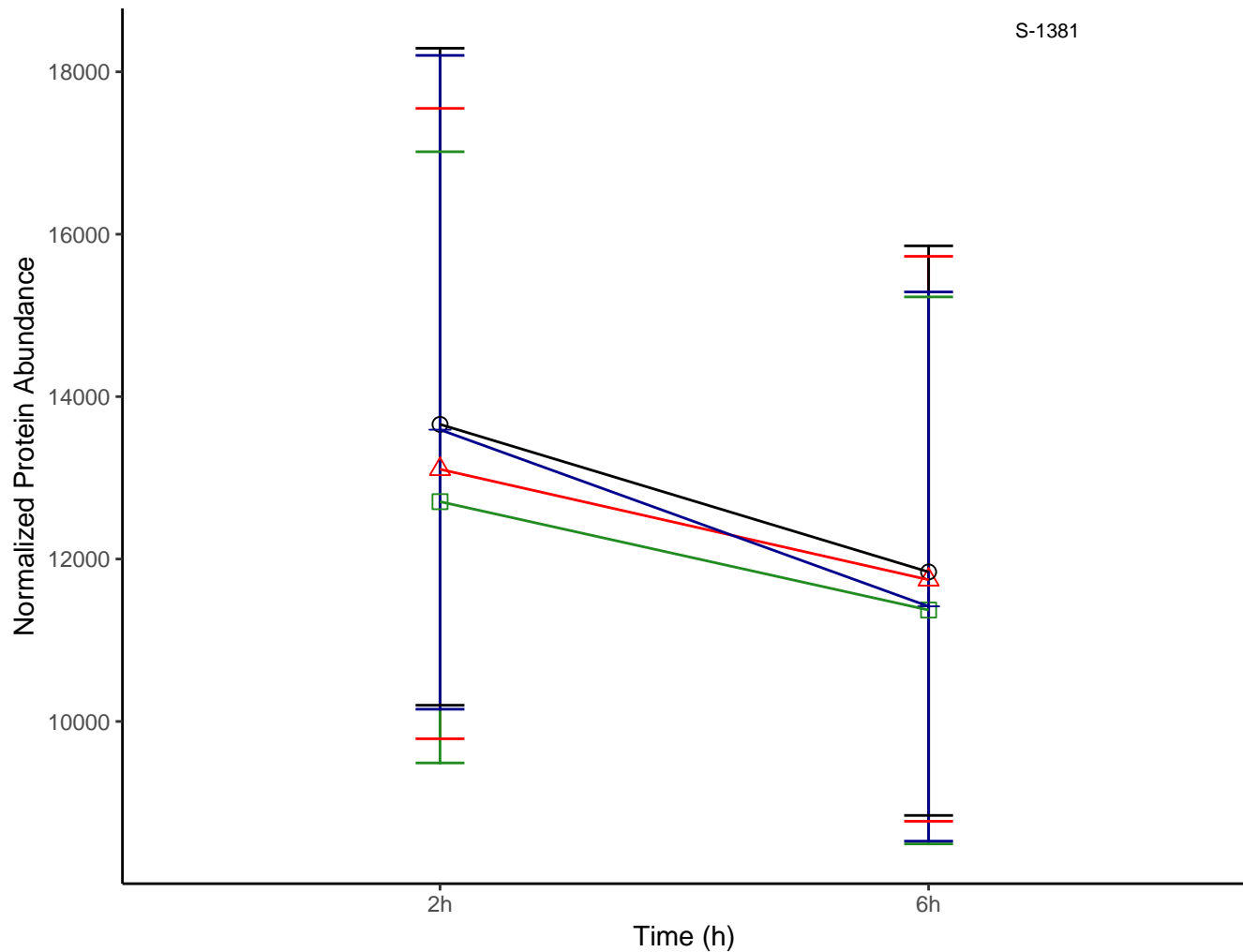
S-1380



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SBCC\_STAAM

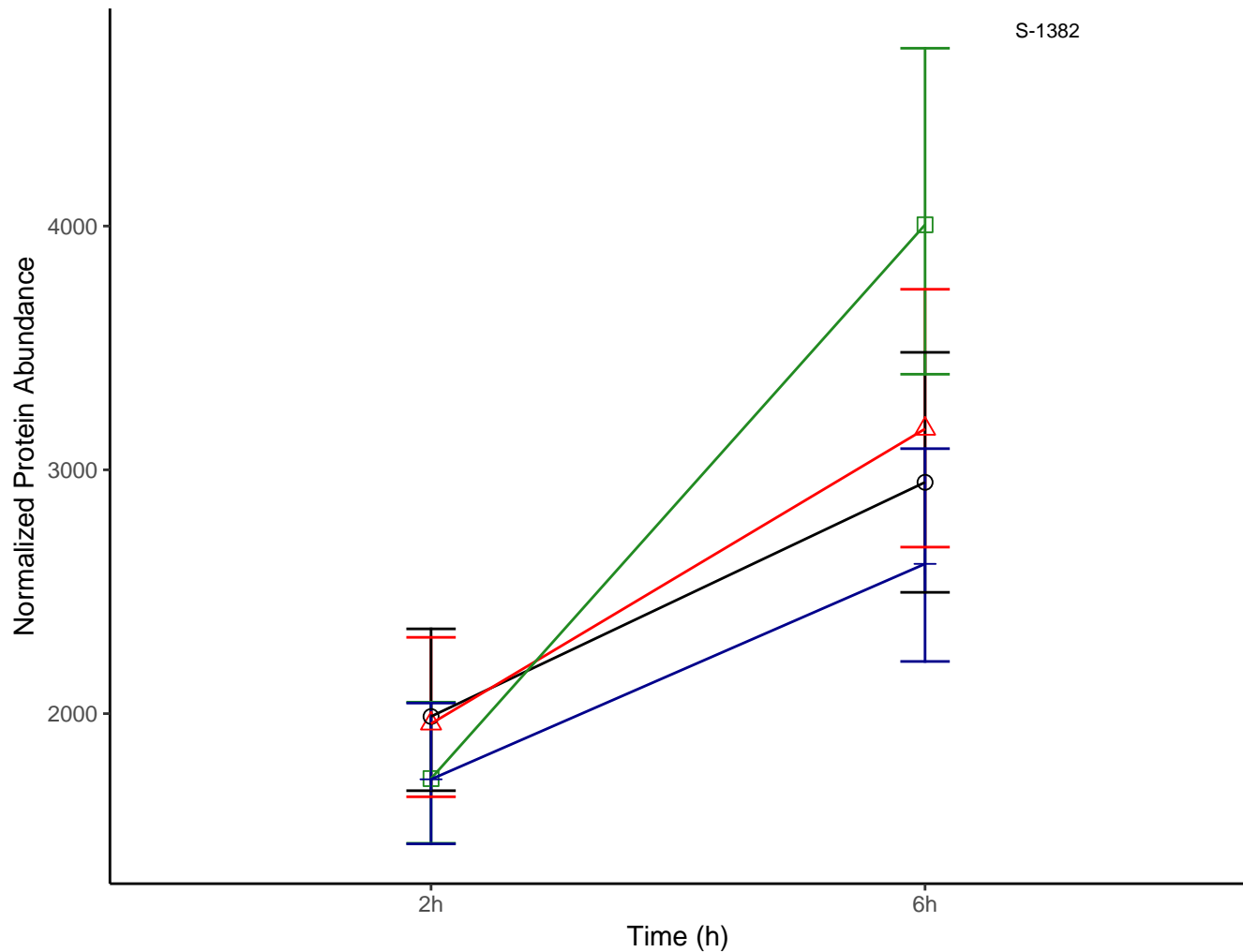
S-1381



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SBI\_STAAM

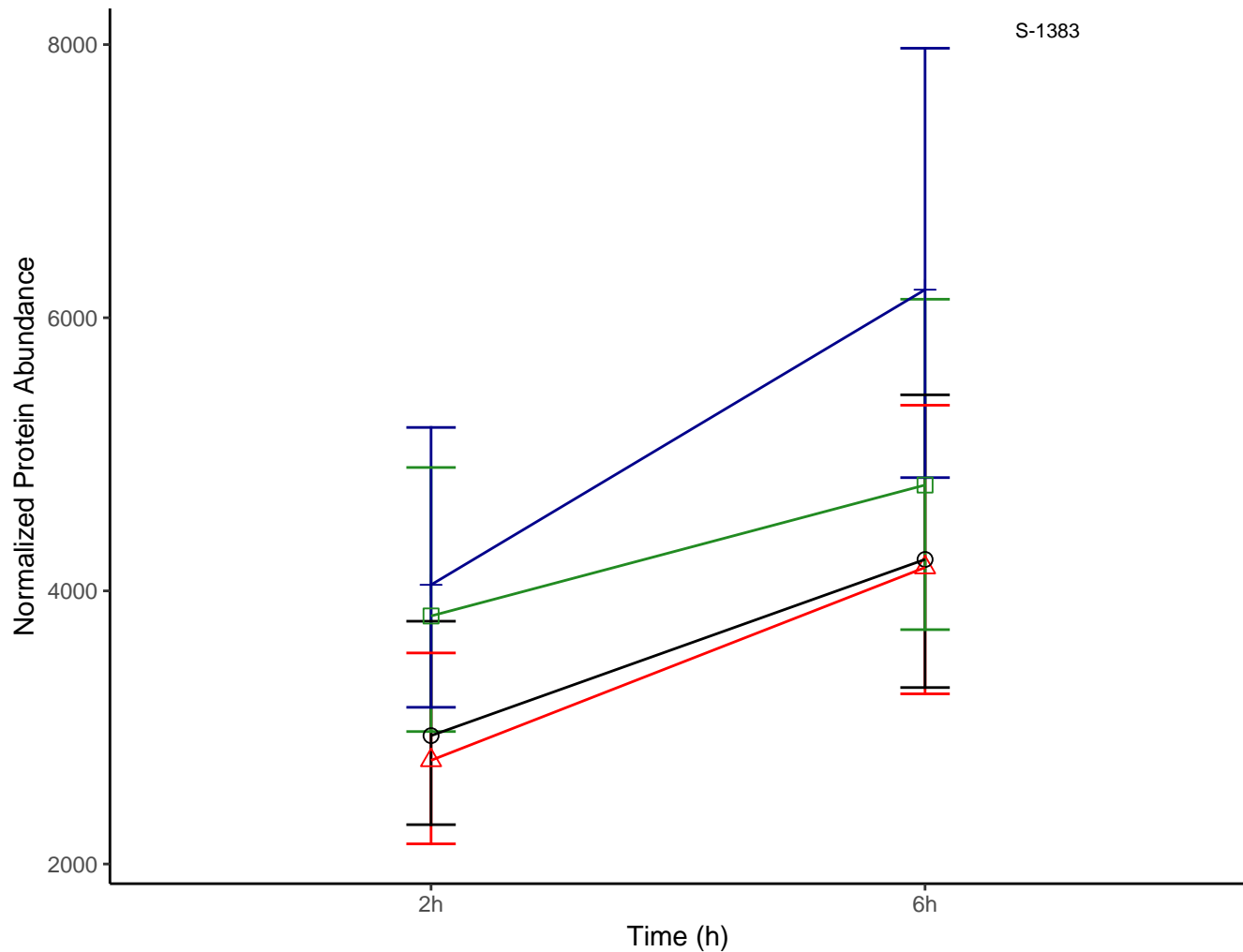
S-1382



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SCPA\_STAAM

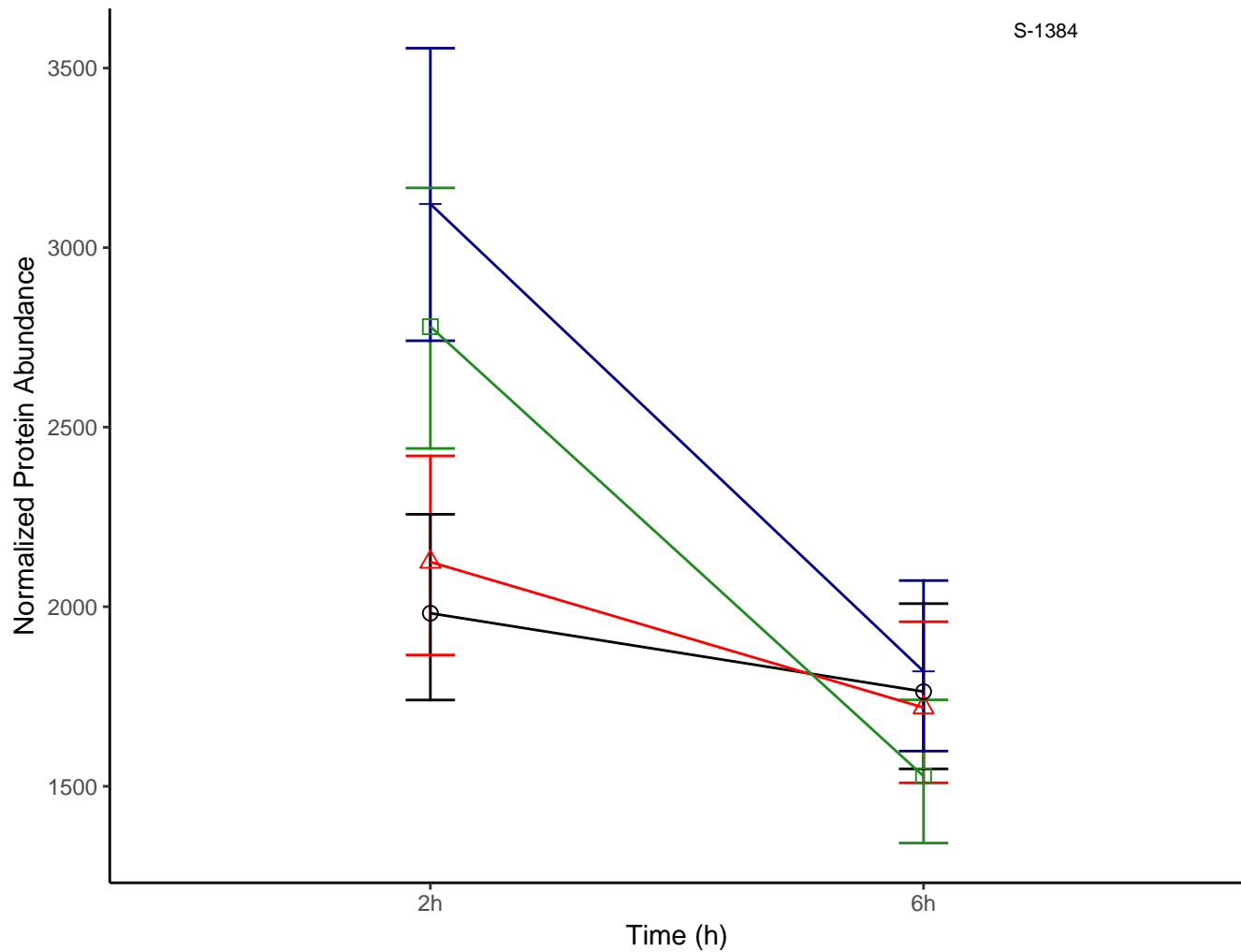
S-1383



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SCPB\_STAAM

S-1384

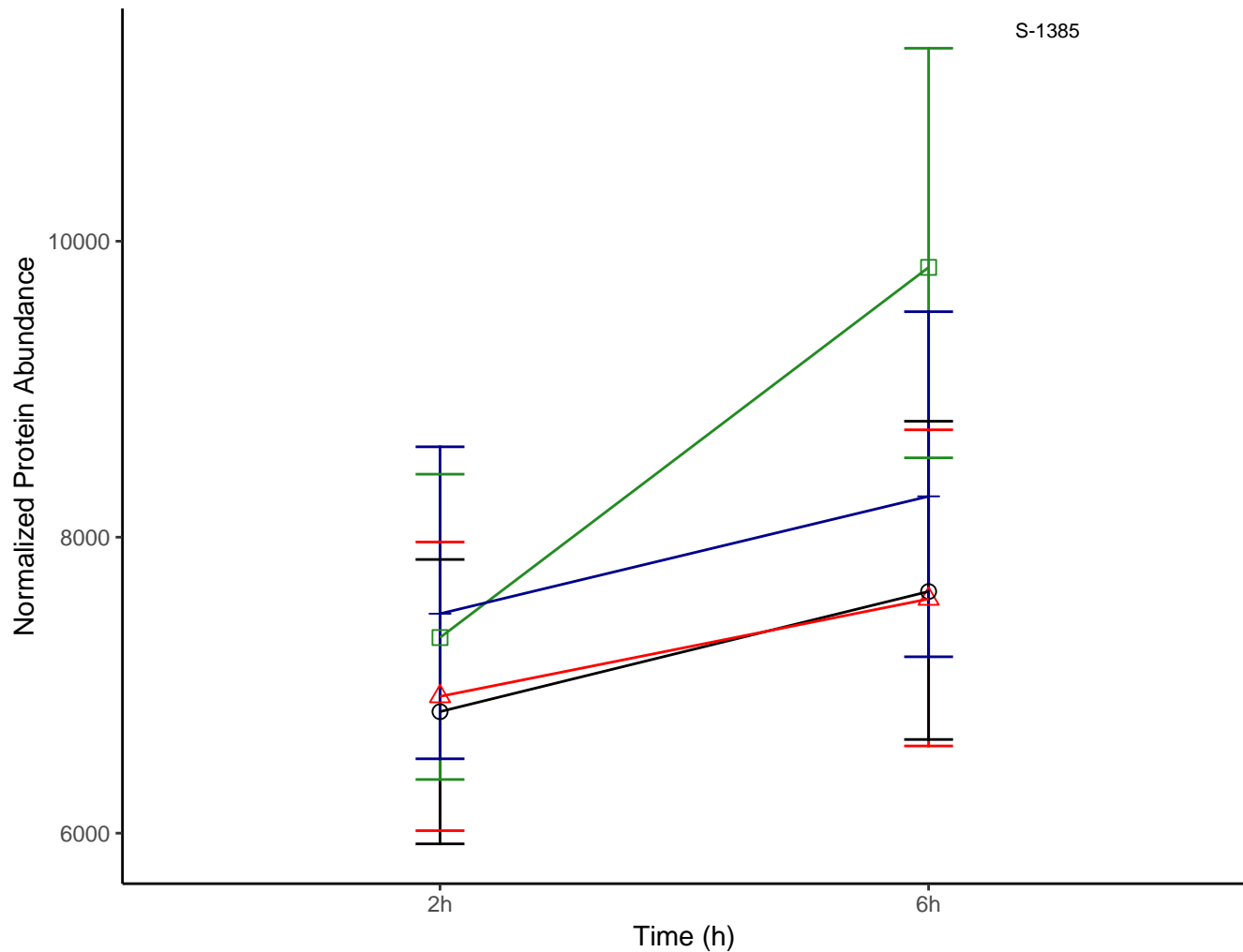


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# SECA1\_STAAM

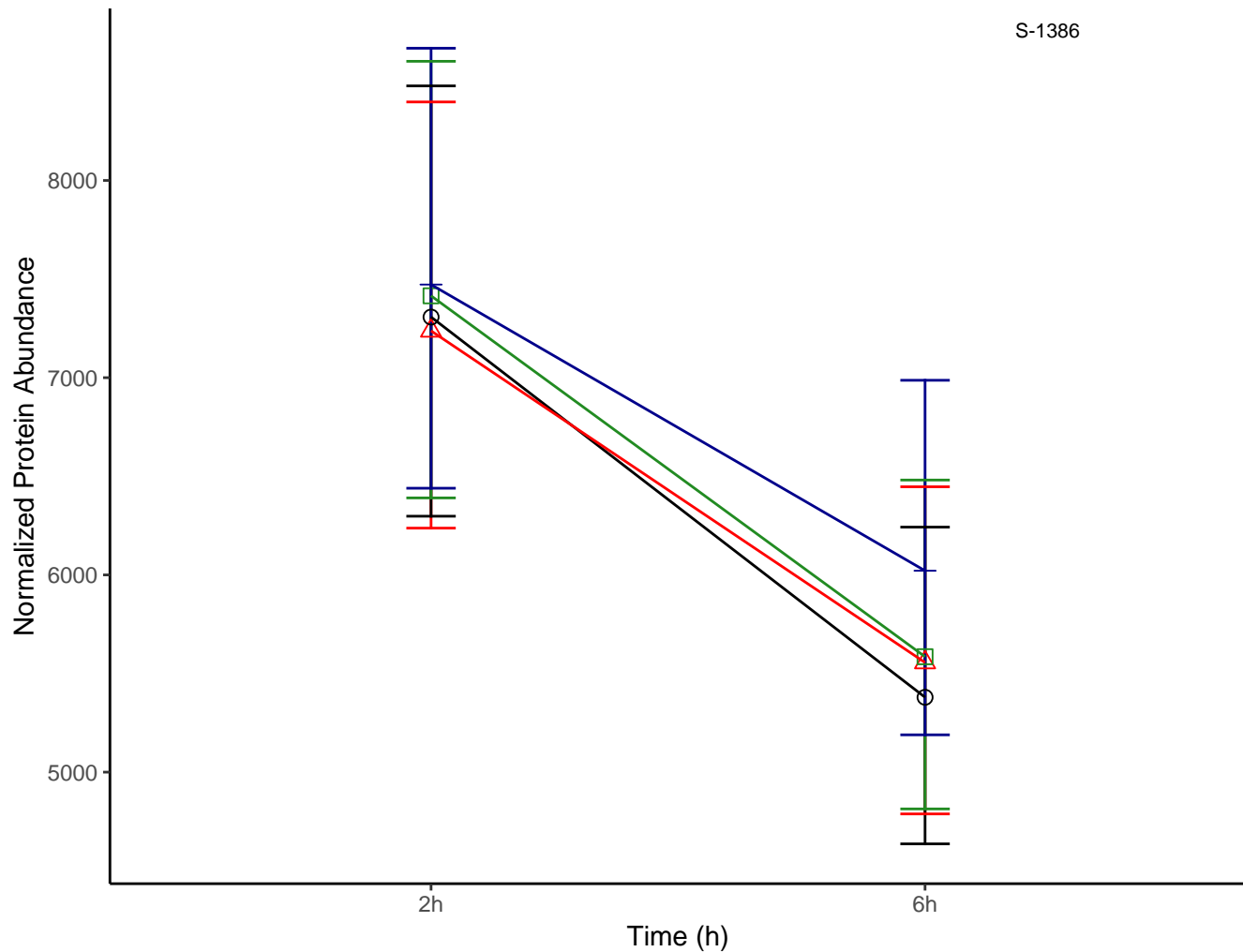
S-1385



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SIGA\_STAAM

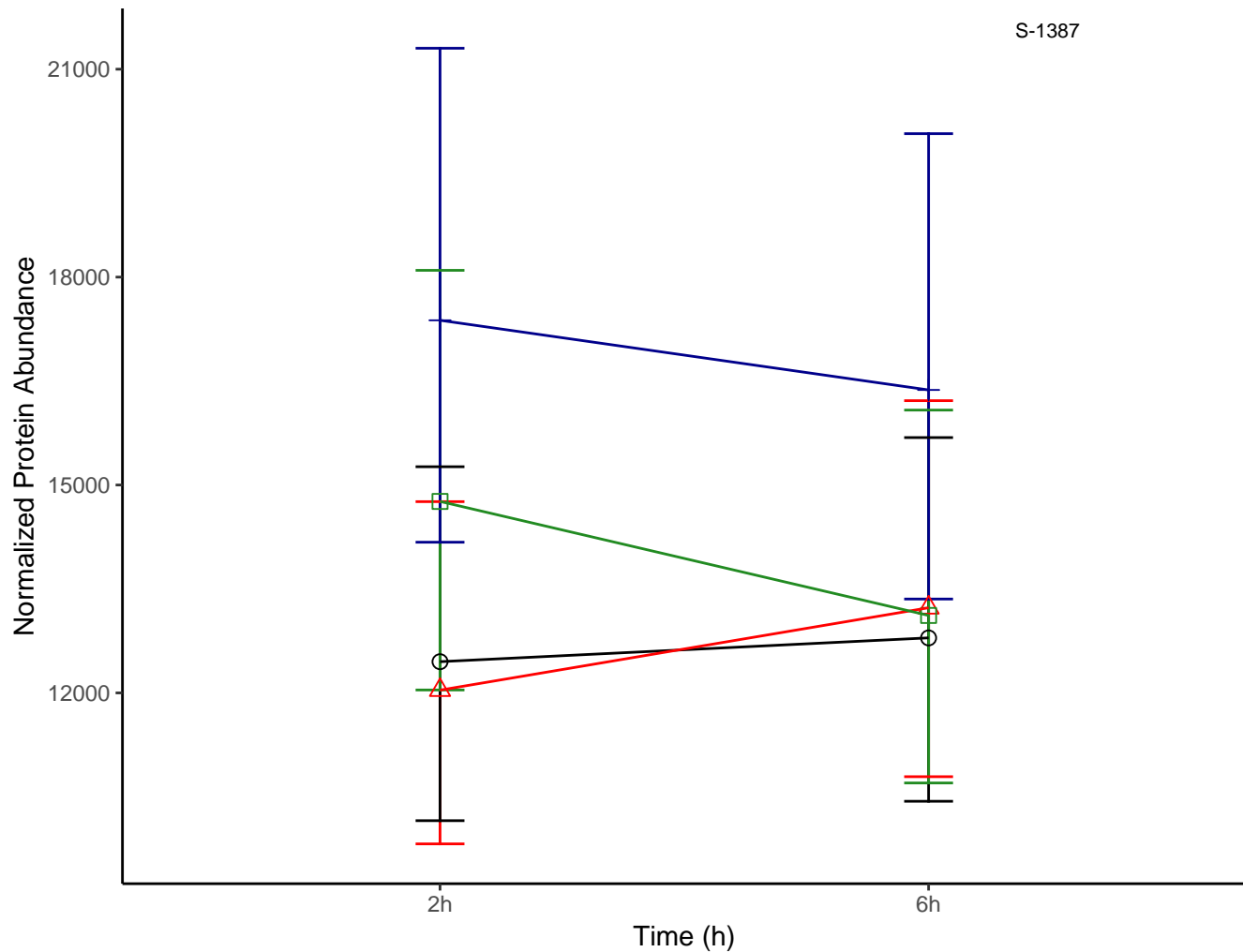
S-1386



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SODM1\_STAAM

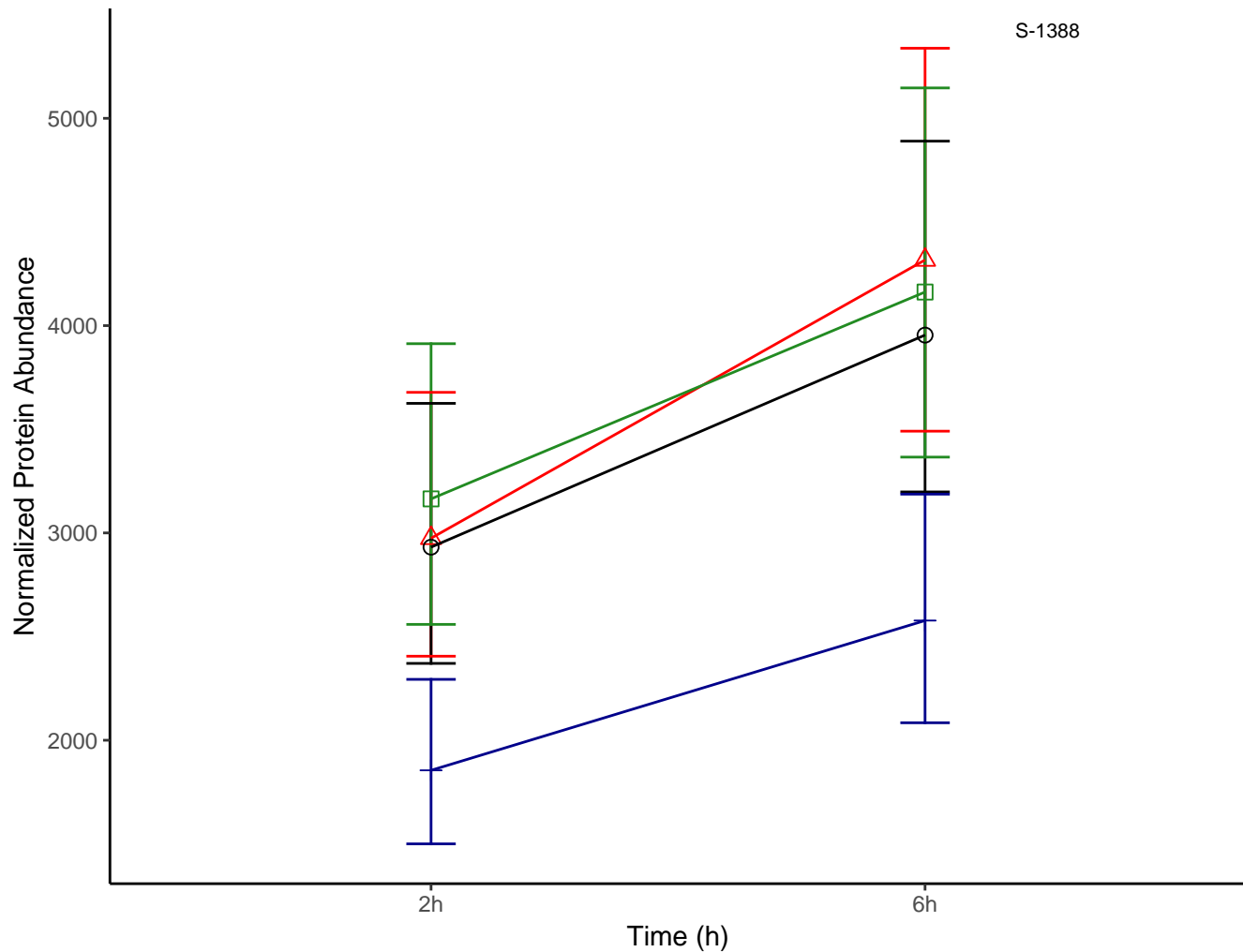
S-1387



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SODM2\_STAAM

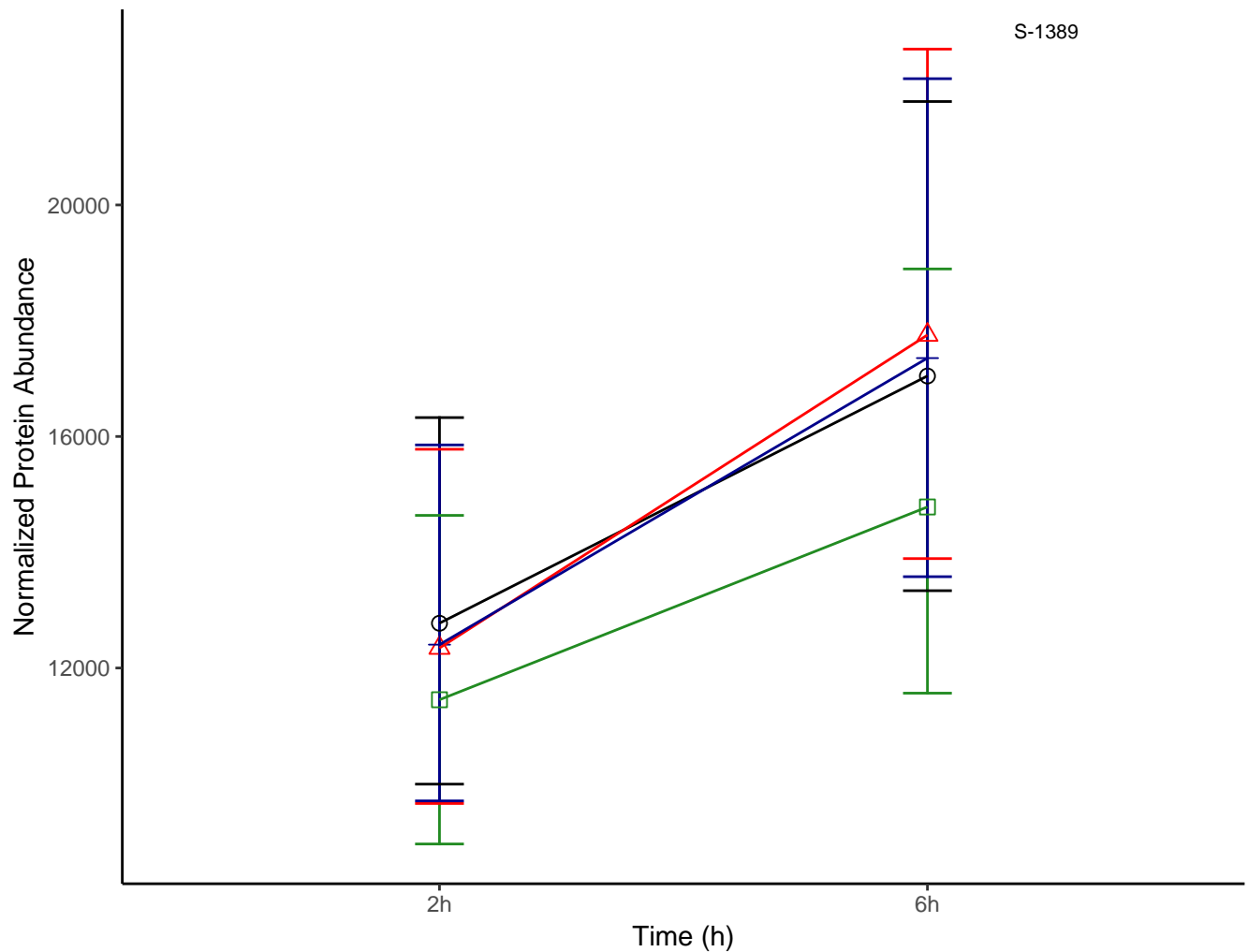
S-1388



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SP5G\_STAAM

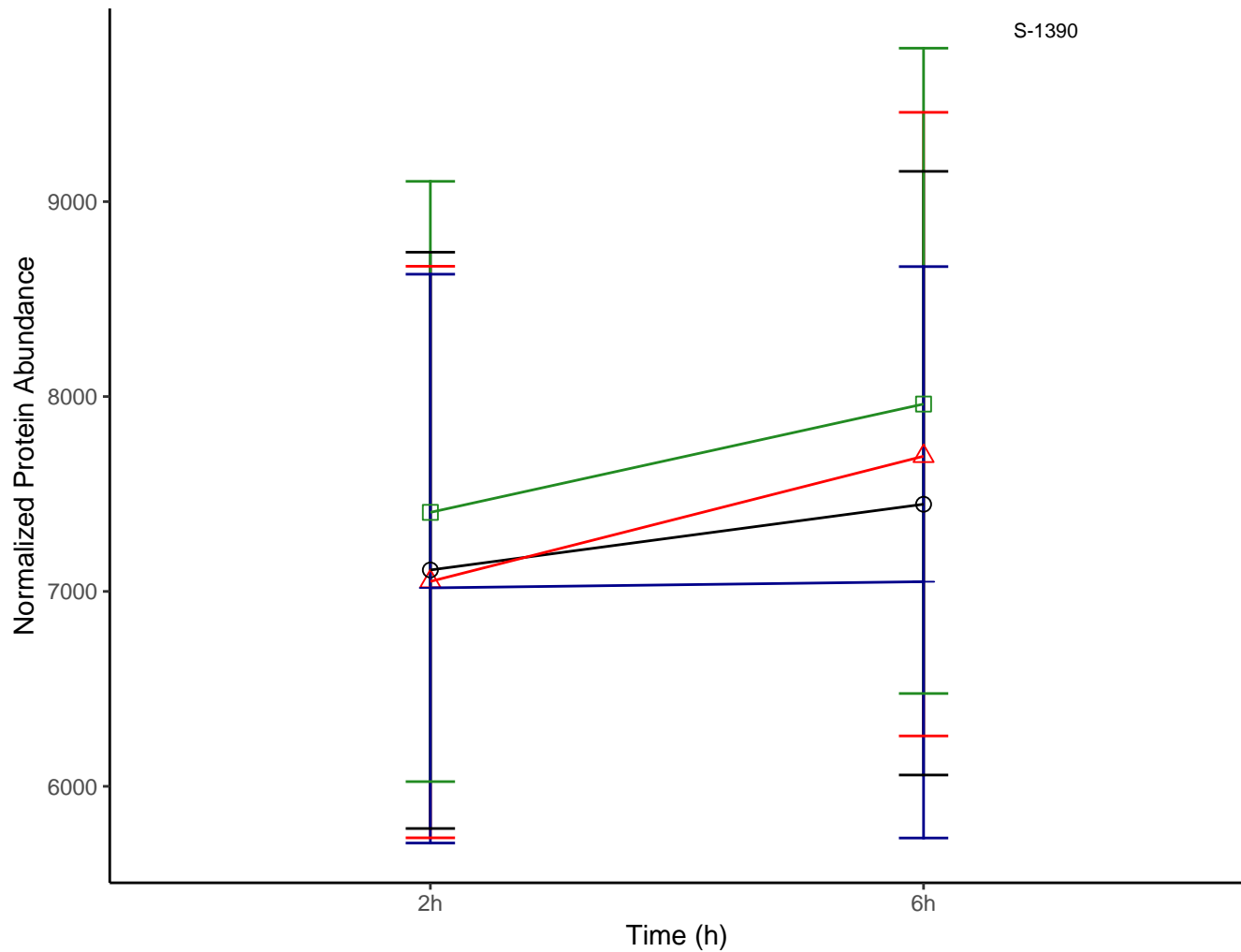
S-1389



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SPA\_STAAM

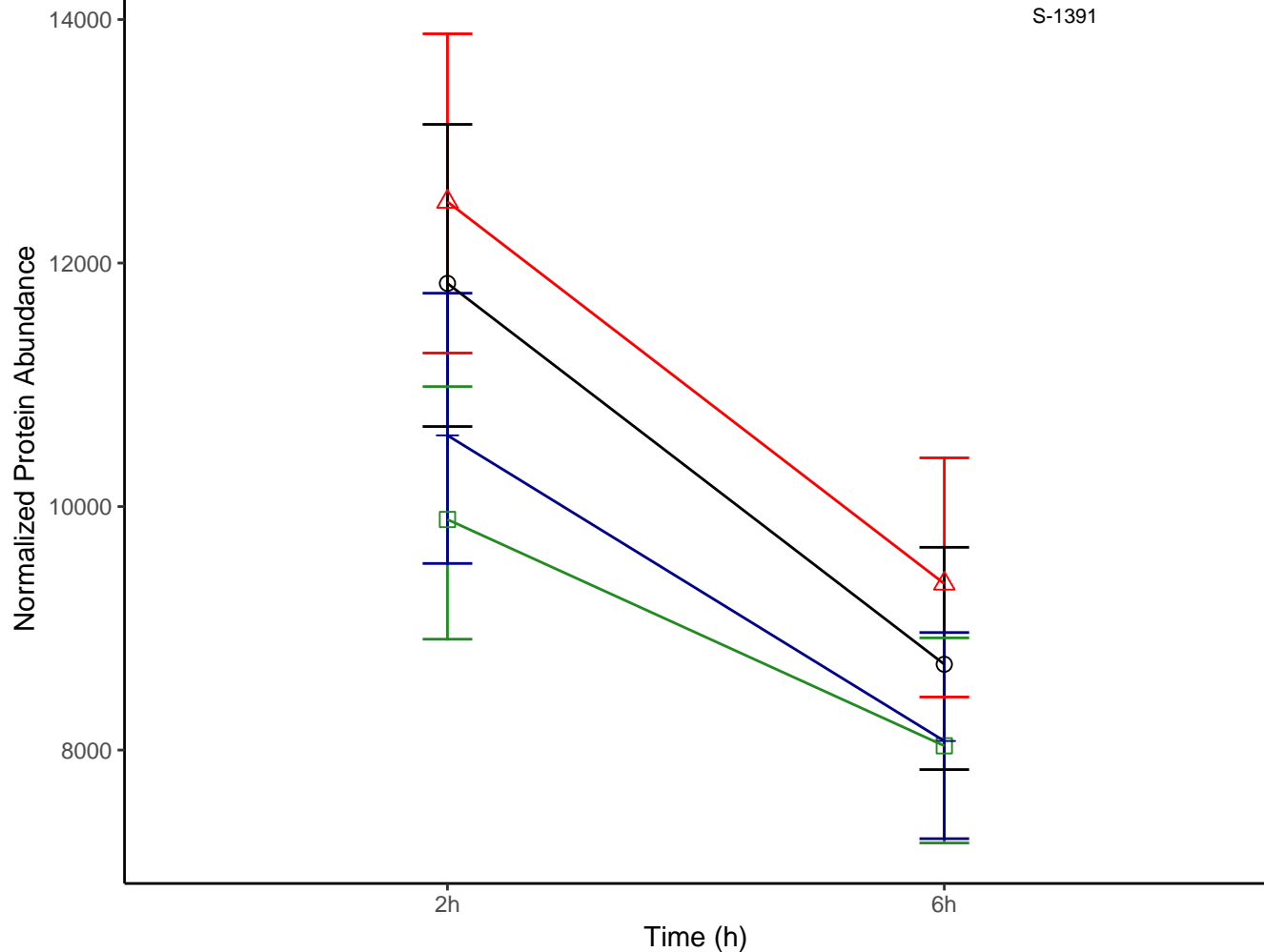
S-1390



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## SPLD\_STAAM

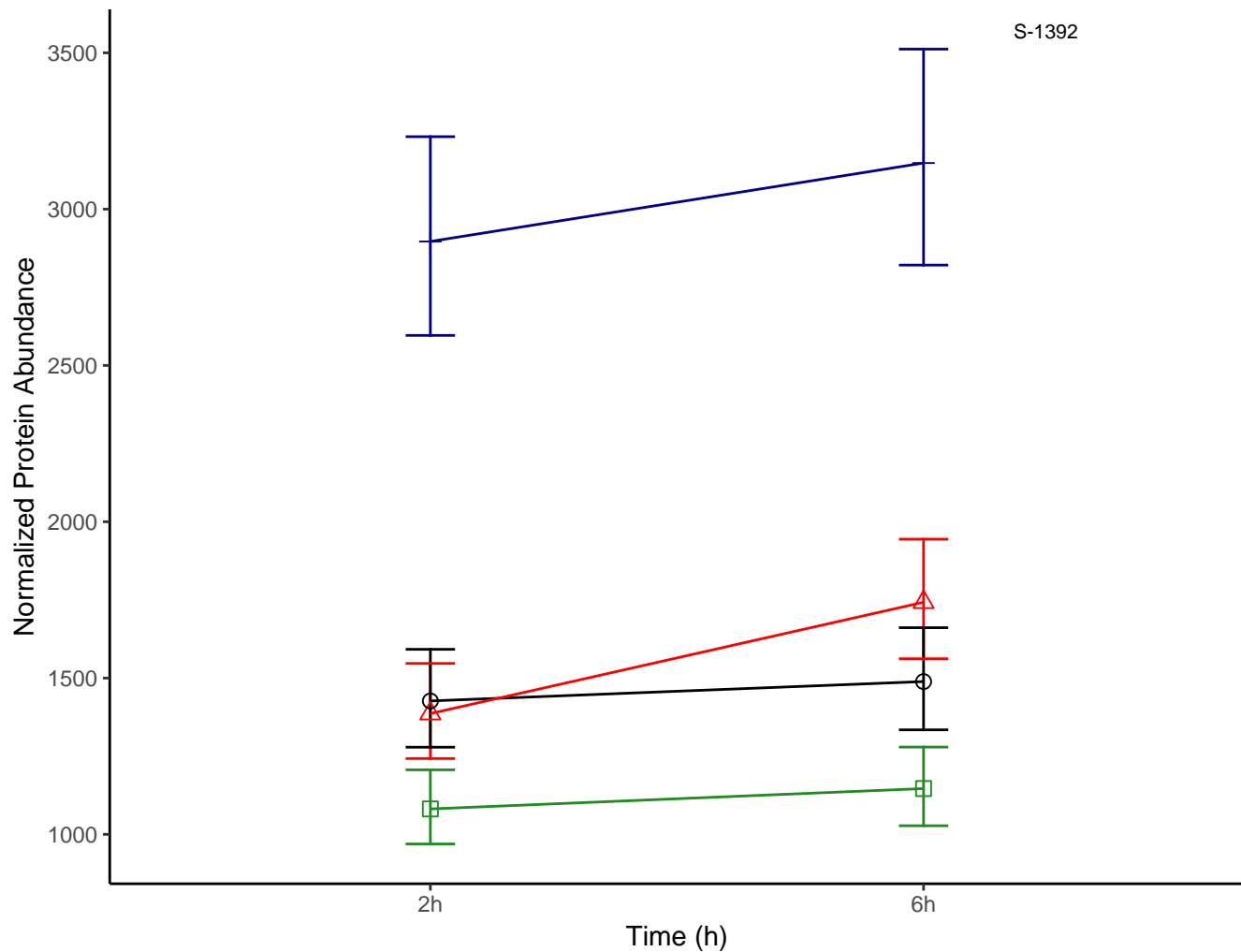
S-1391



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SPX\_STAAM

S-1392

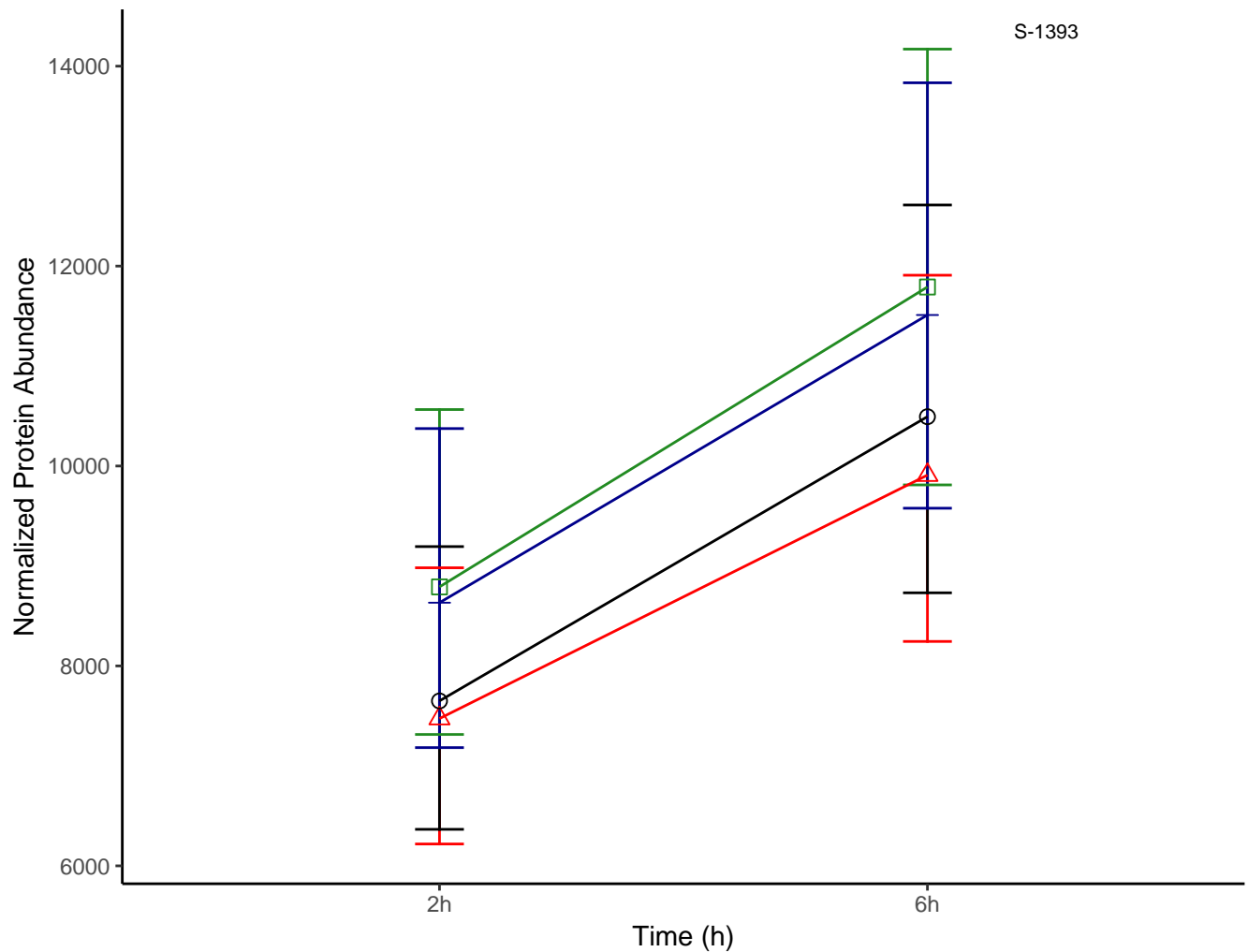


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SRRRA\_STAAM

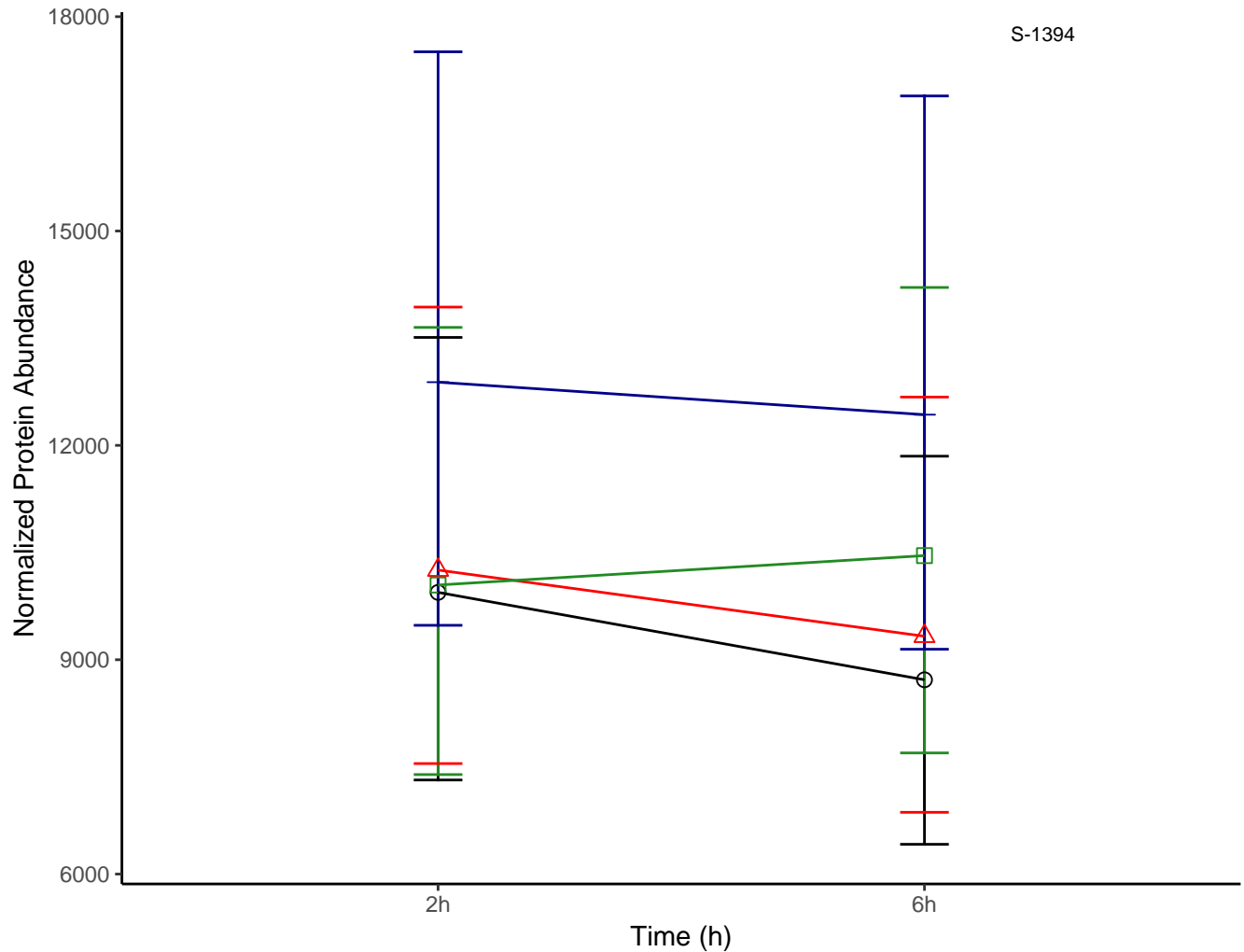
S-1393



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SSAA2\_STAAM

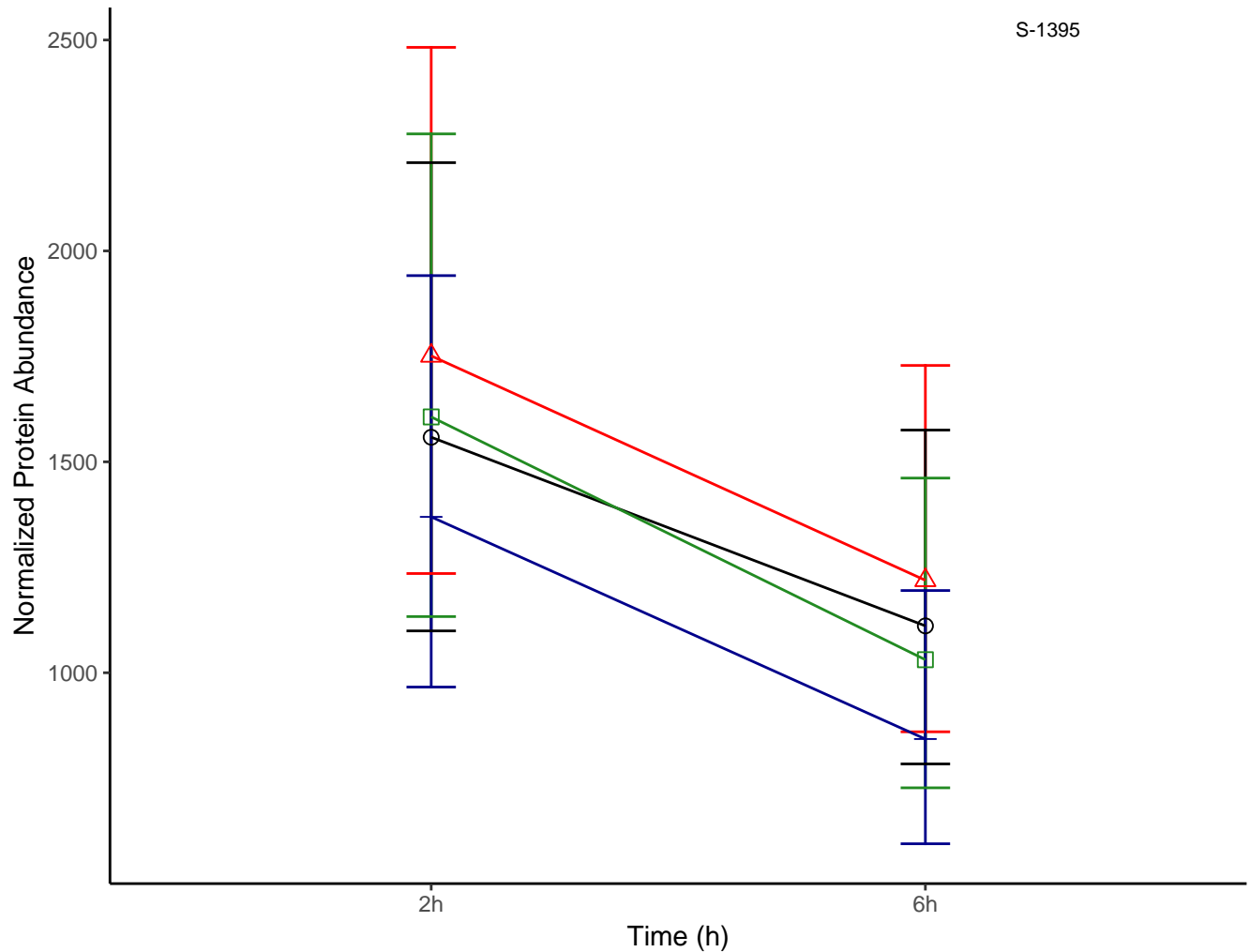
S-1394



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SSB1\_STAAM

S-1395

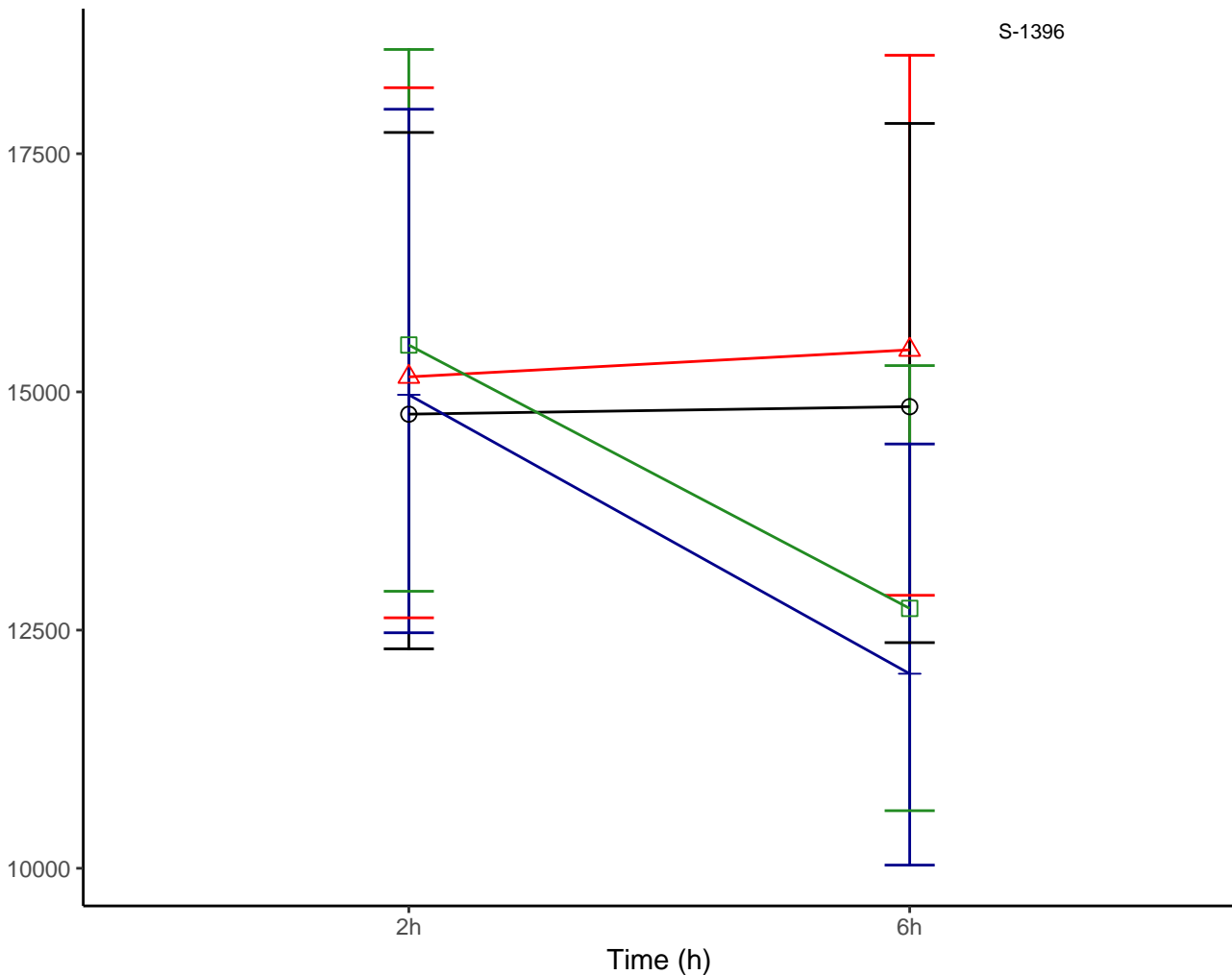


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SSB2\_STAAM

S-1396

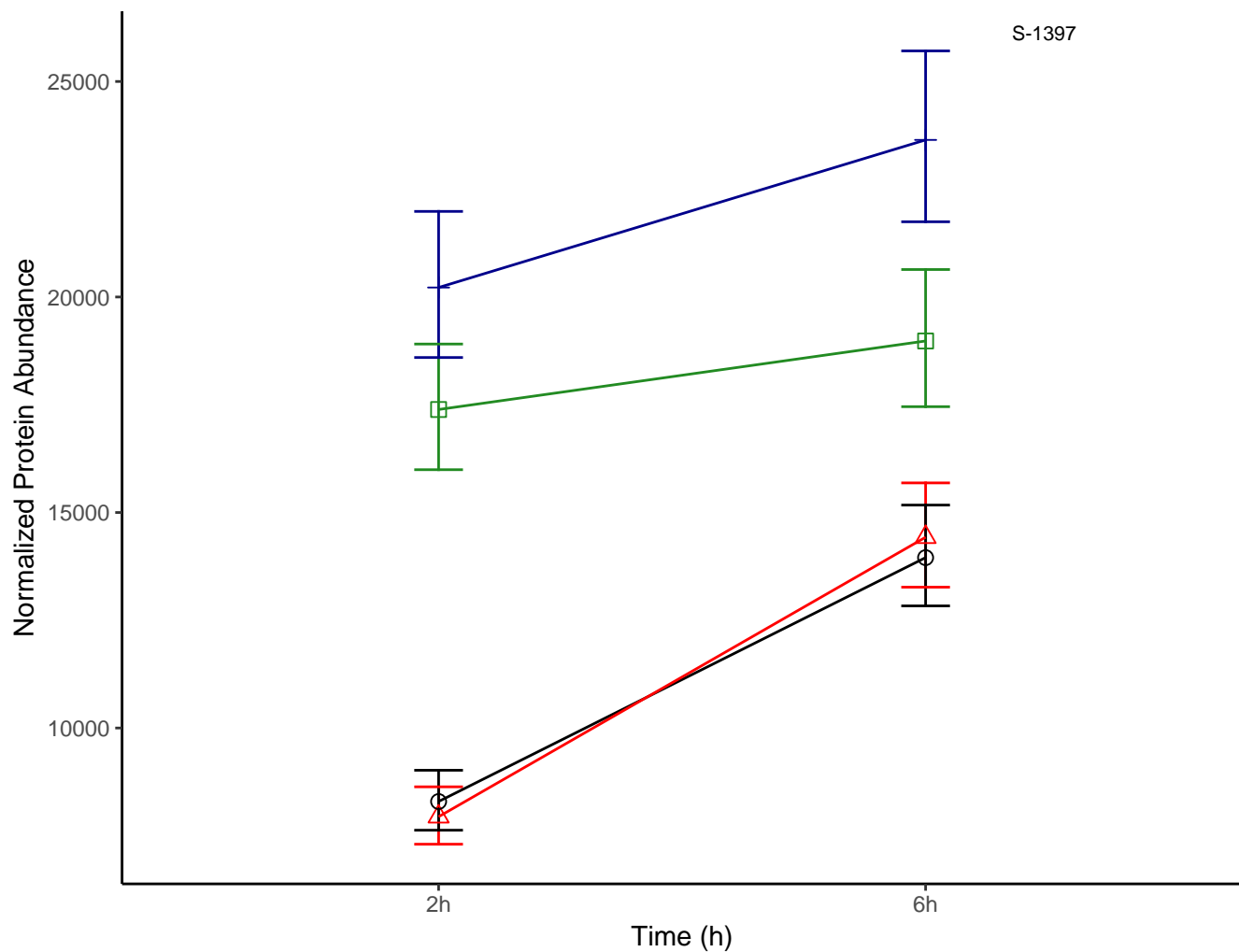
Normalized Protein Abundance



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SUCC\_STAAM

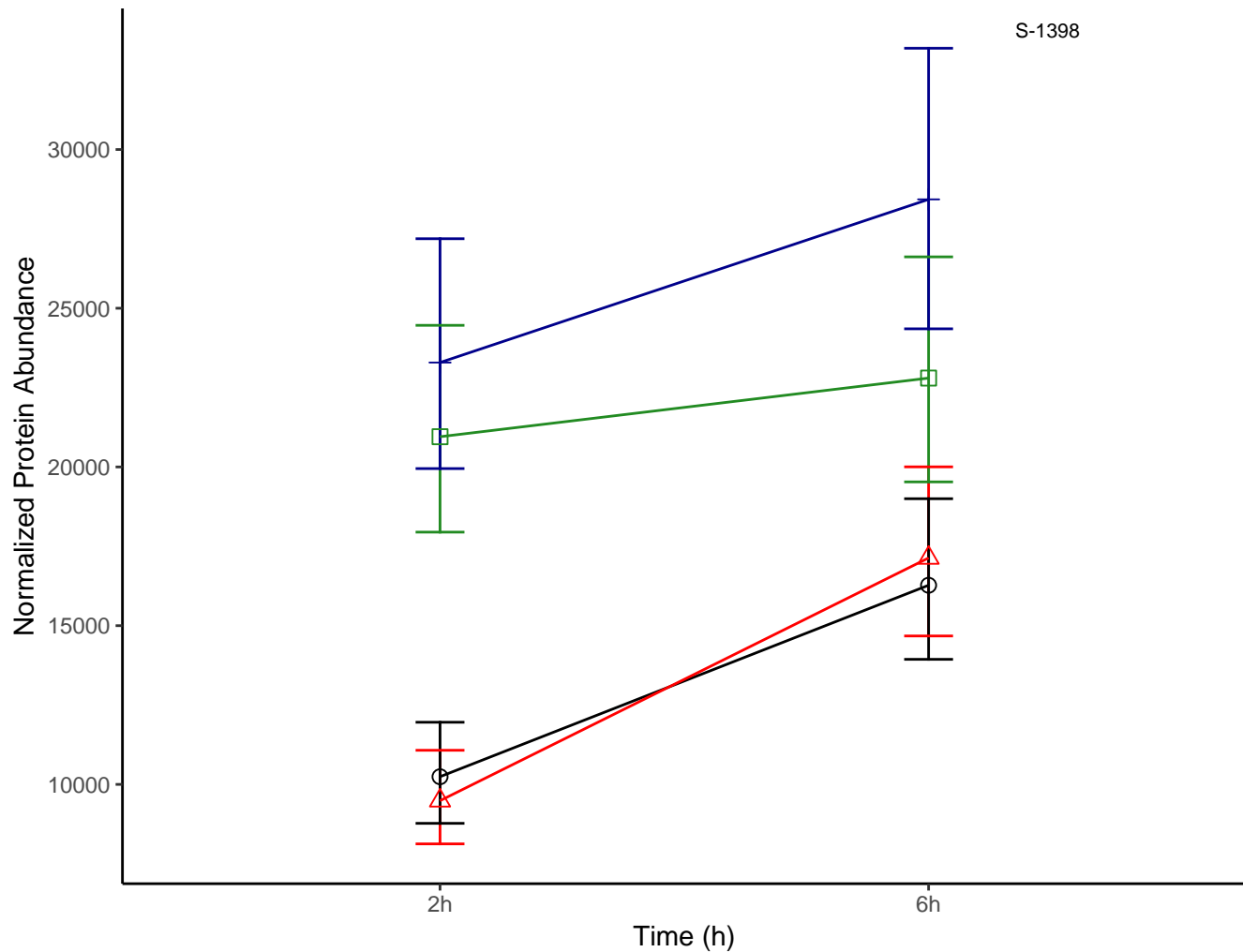
S-1397



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SUCD\_STAAM

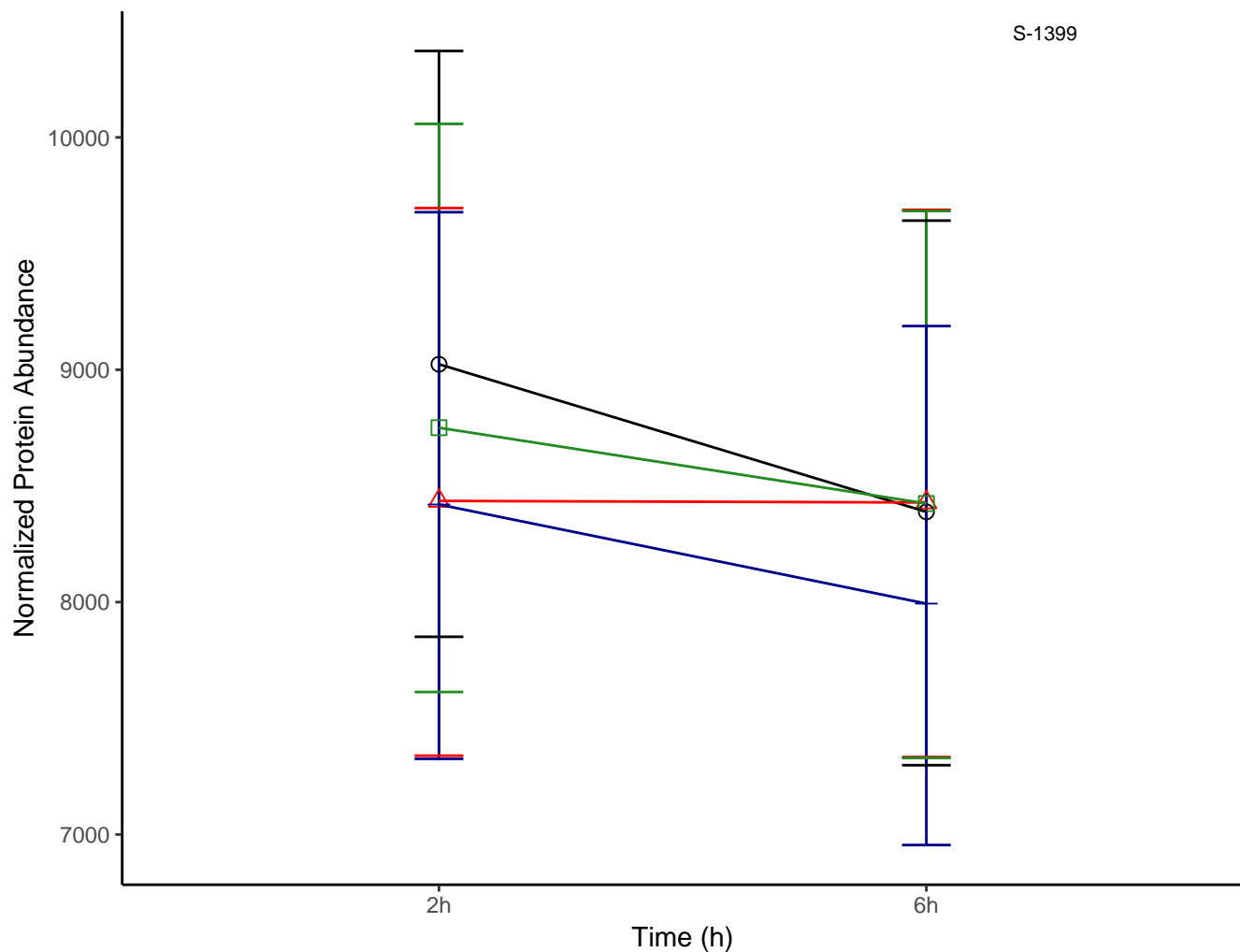
S-1398



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYA\_STAAM

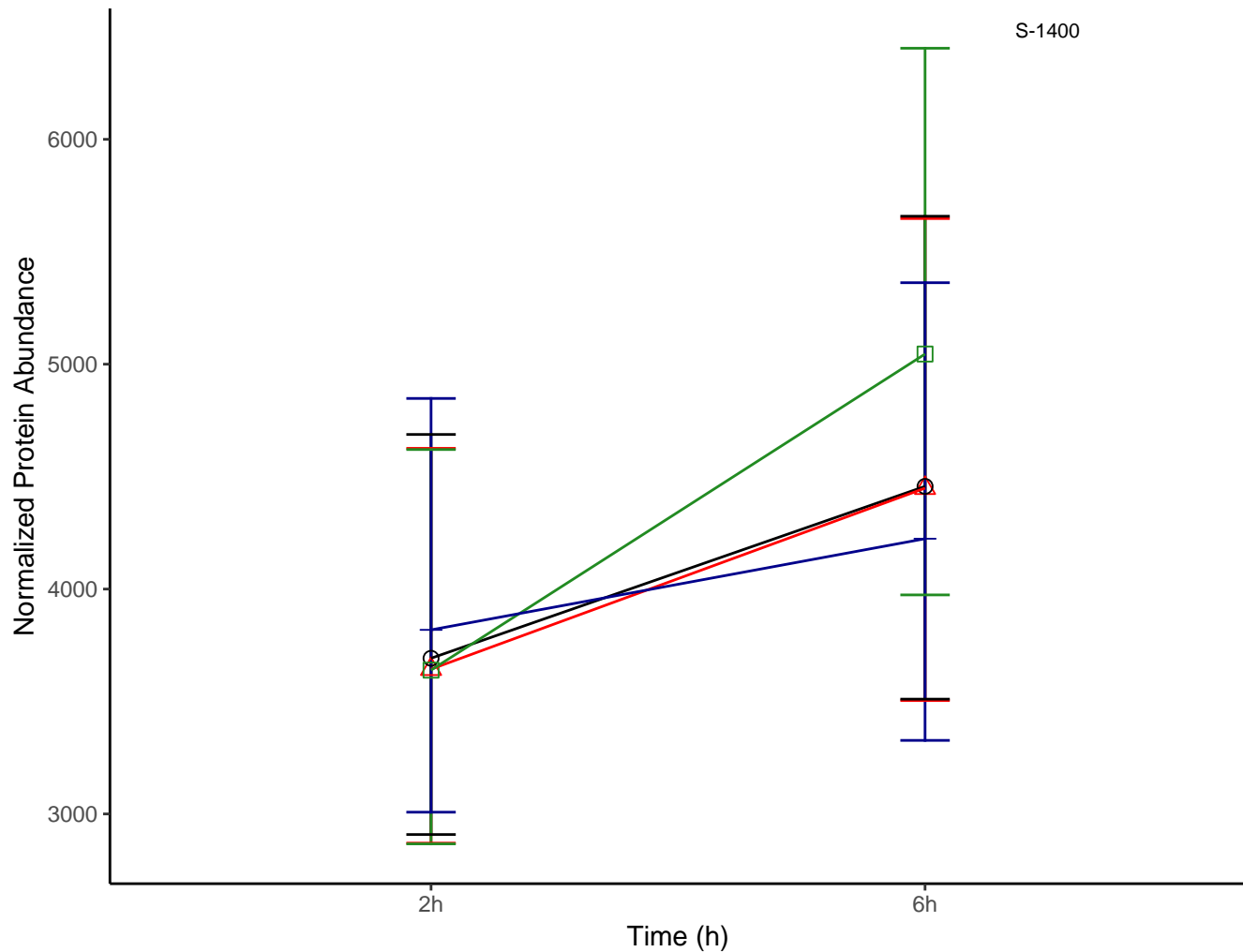
S-1399



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYC\_STAAM

S-1400

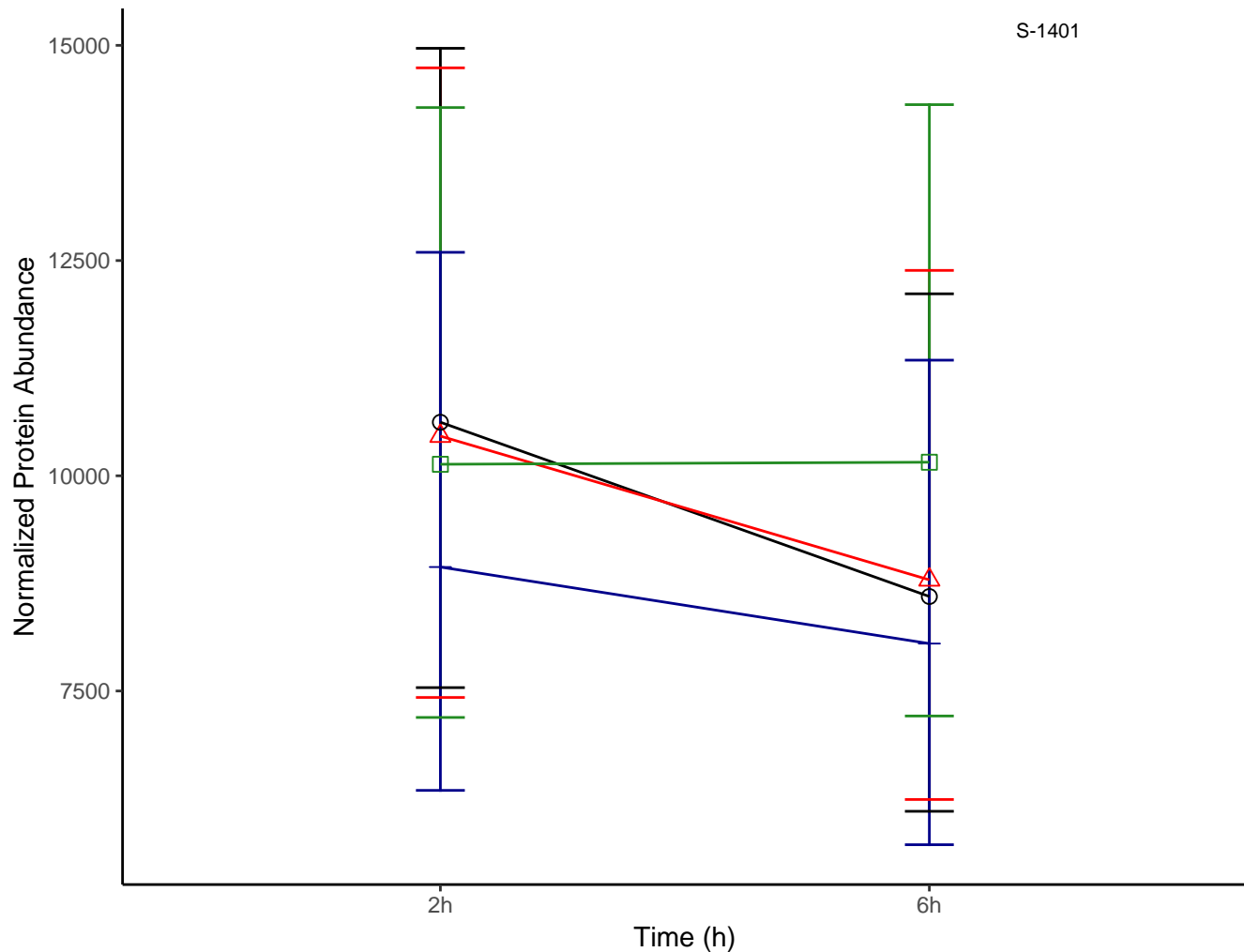


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# SYD\_STAAM

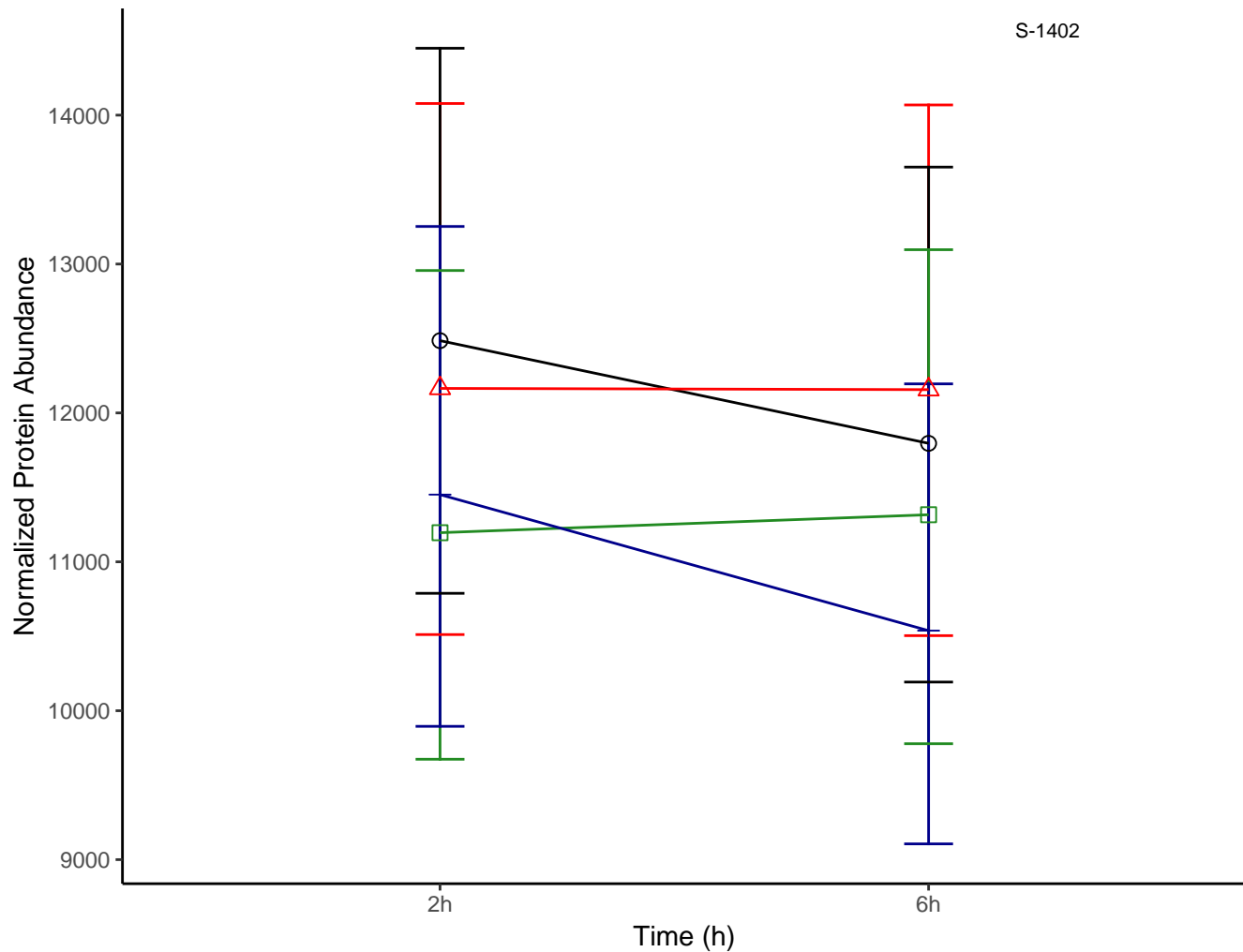
S-1401



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYE\_STAAM

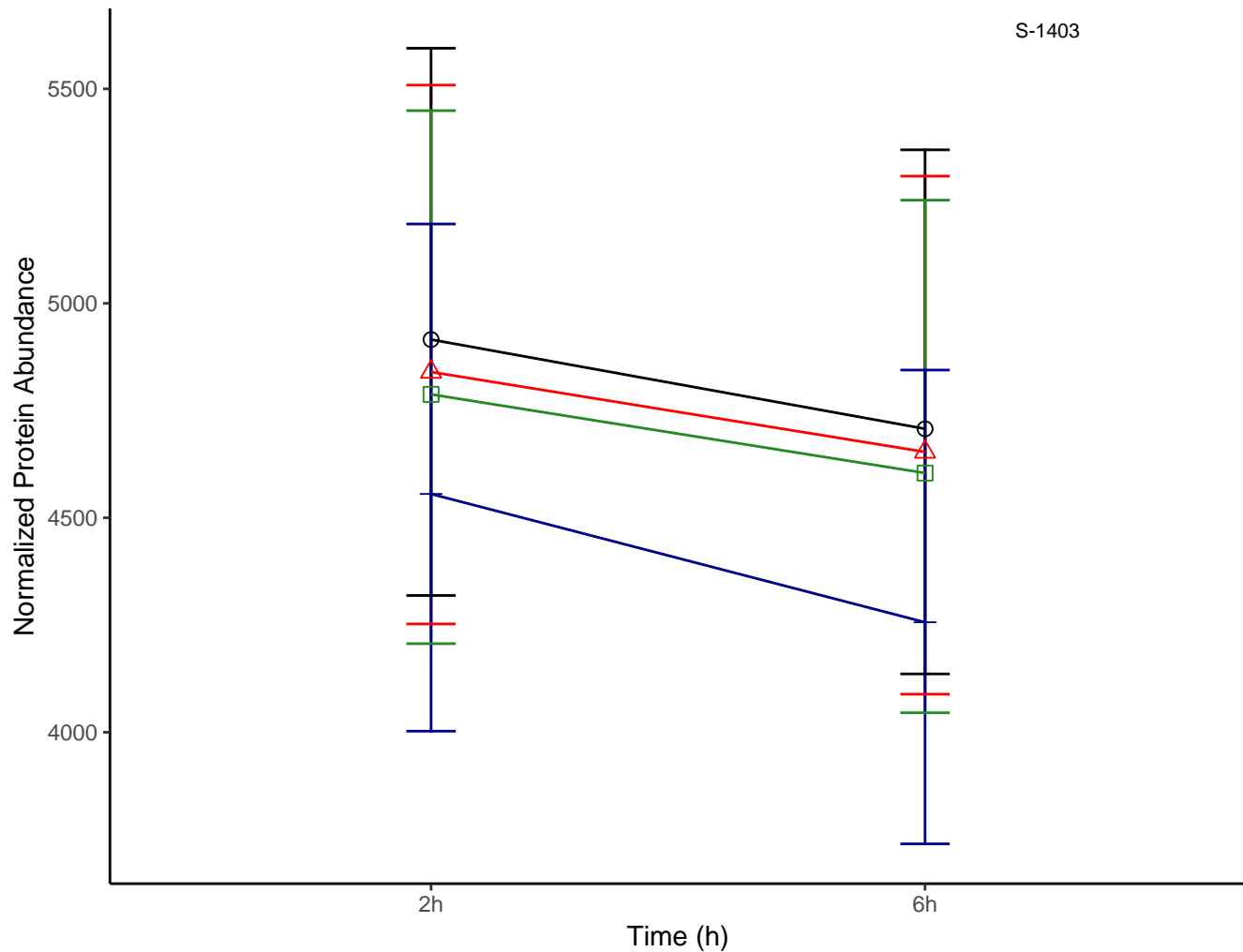
S-1402



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYFB\_STAAM

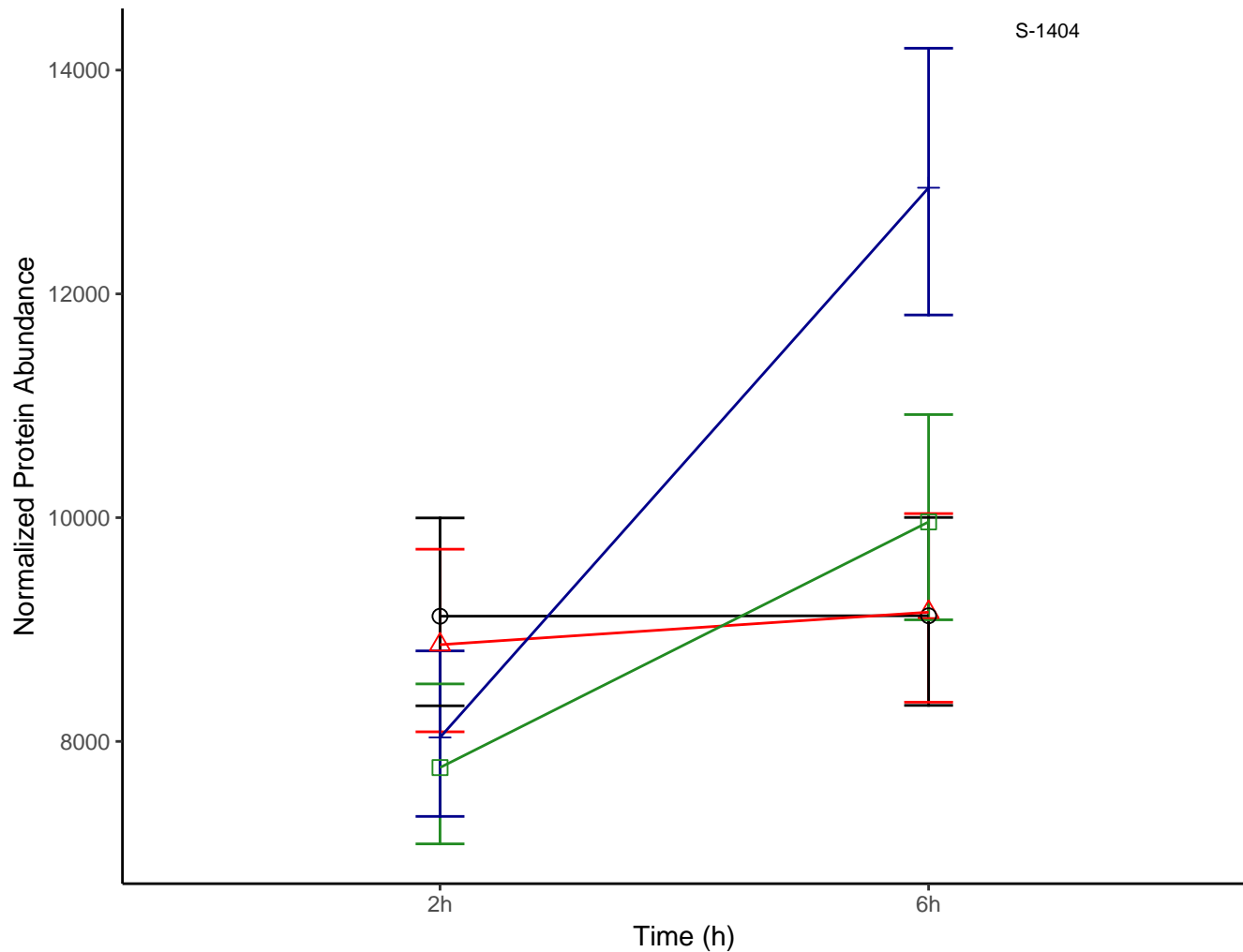
S-1403



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYG\_STAAM

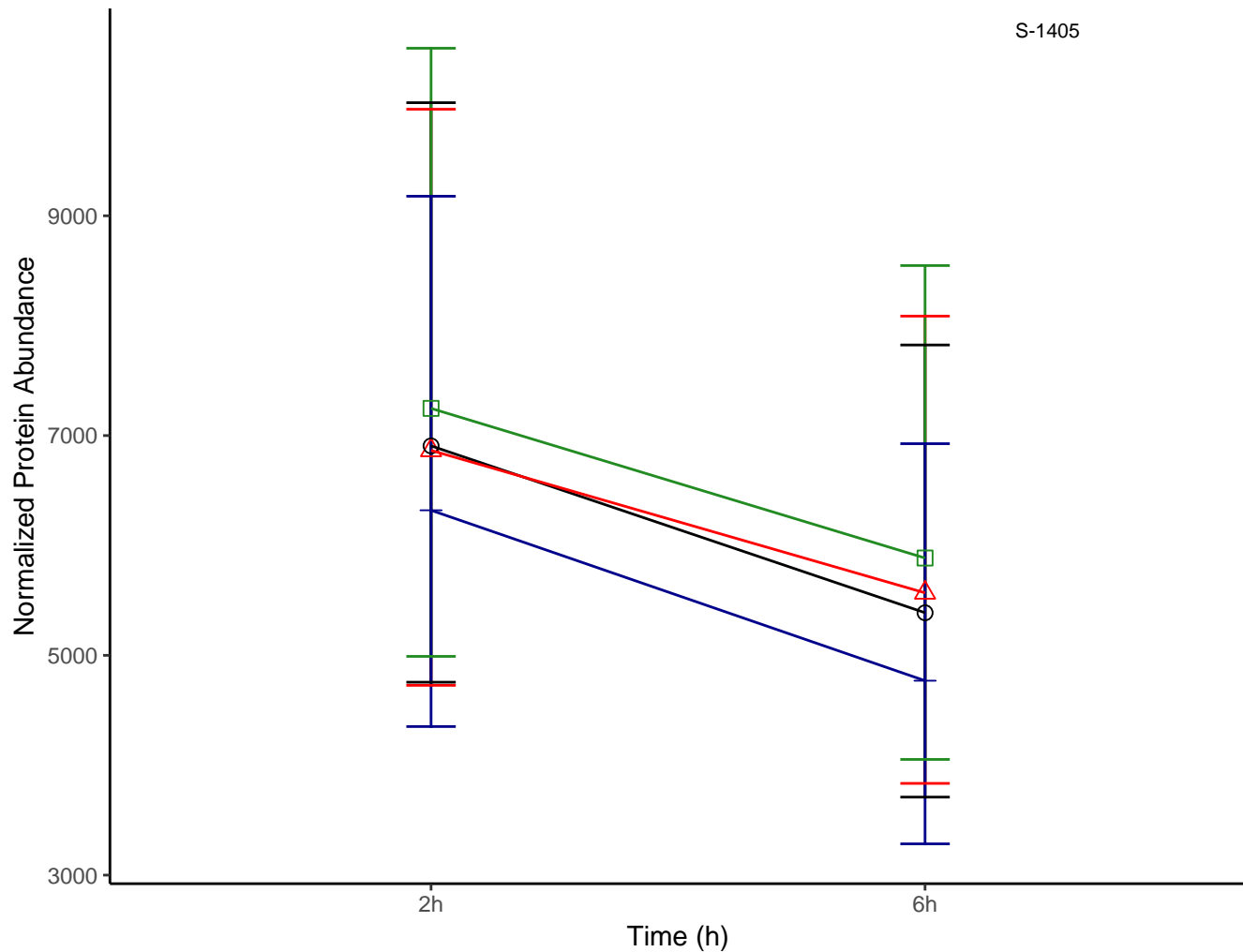
S-1404



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYH\_STAAM

S-1405



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYI\_STAAM

S-1406

Normalized Protein Abundance

9000

8000

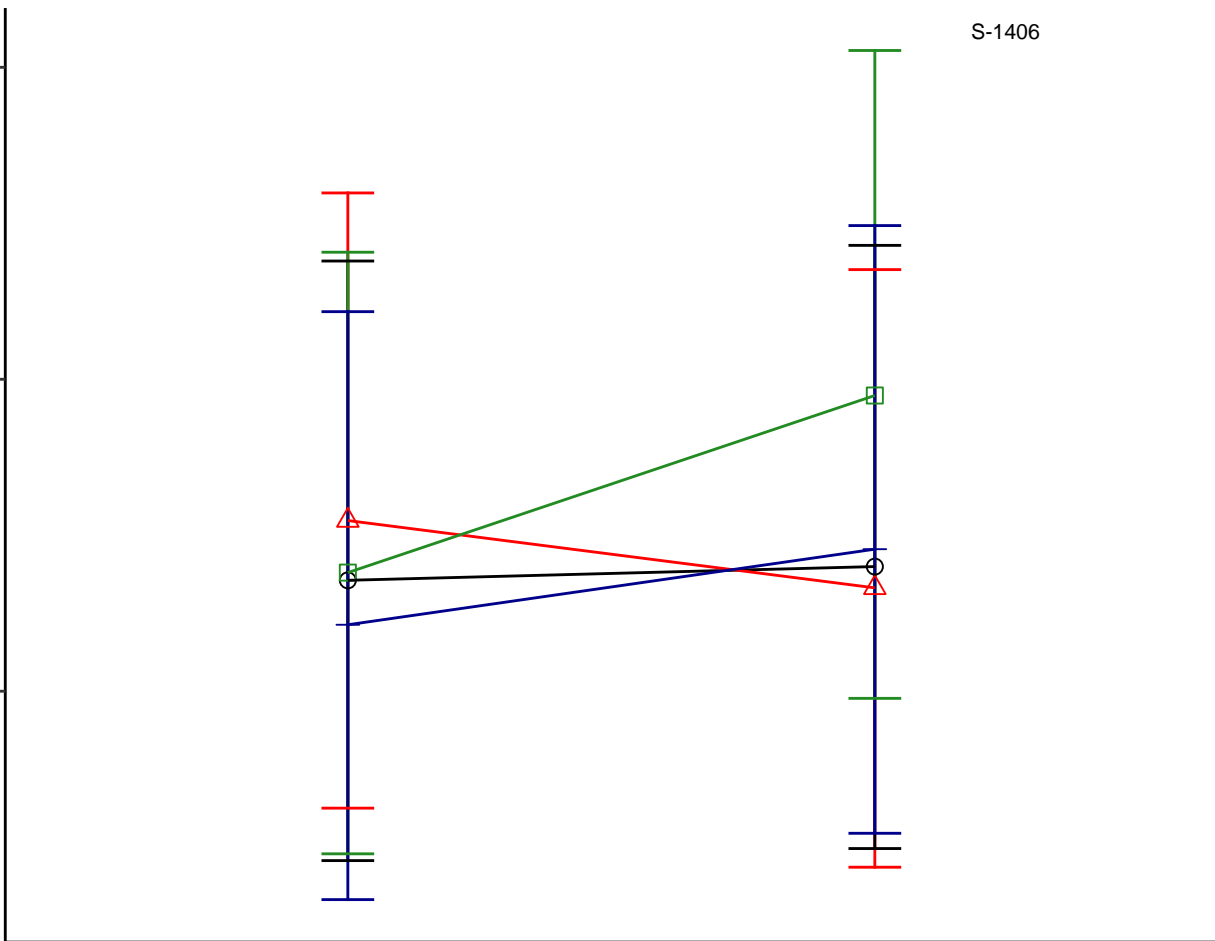
7000

2h

Time (h)

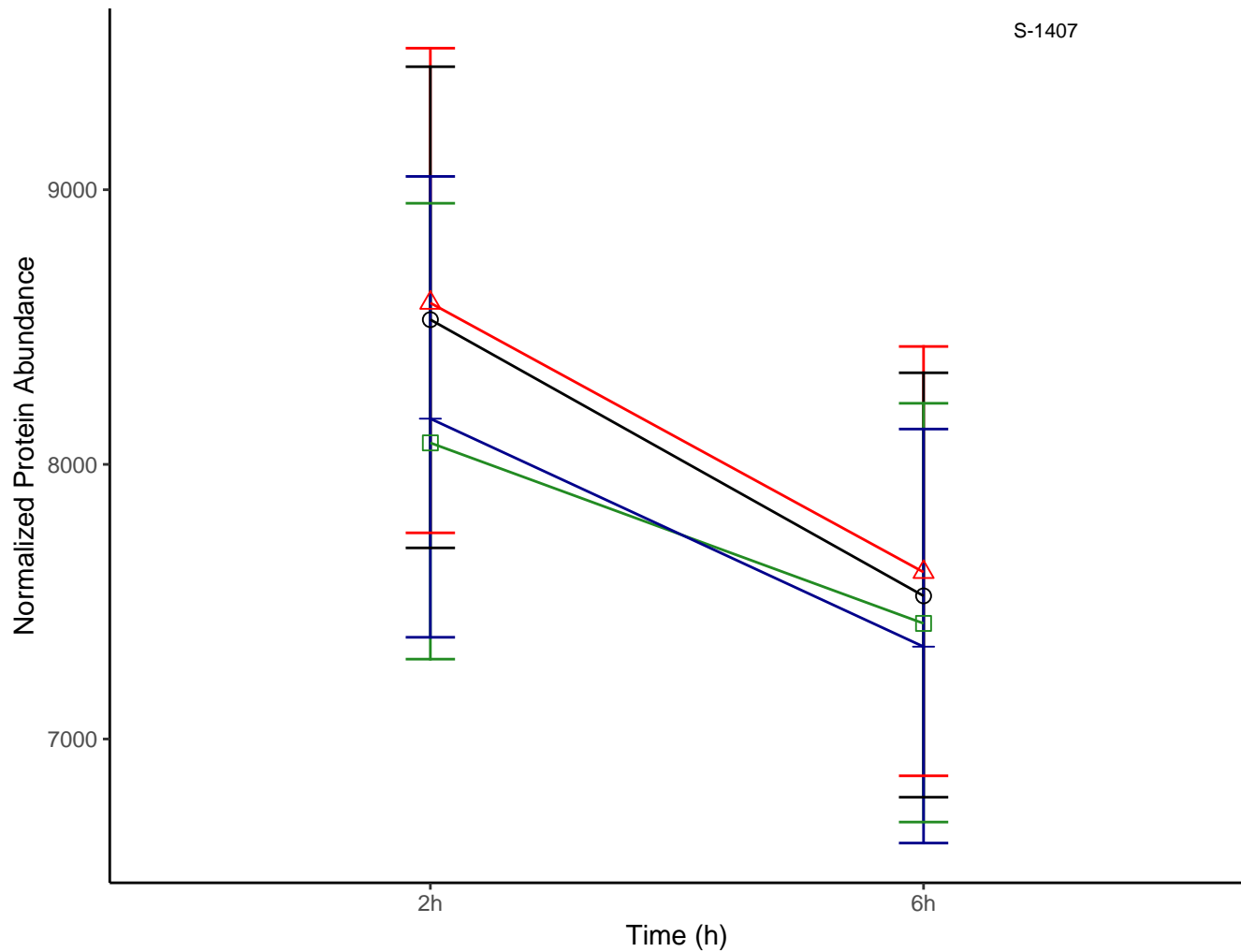
6h

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SYK\_STAAM

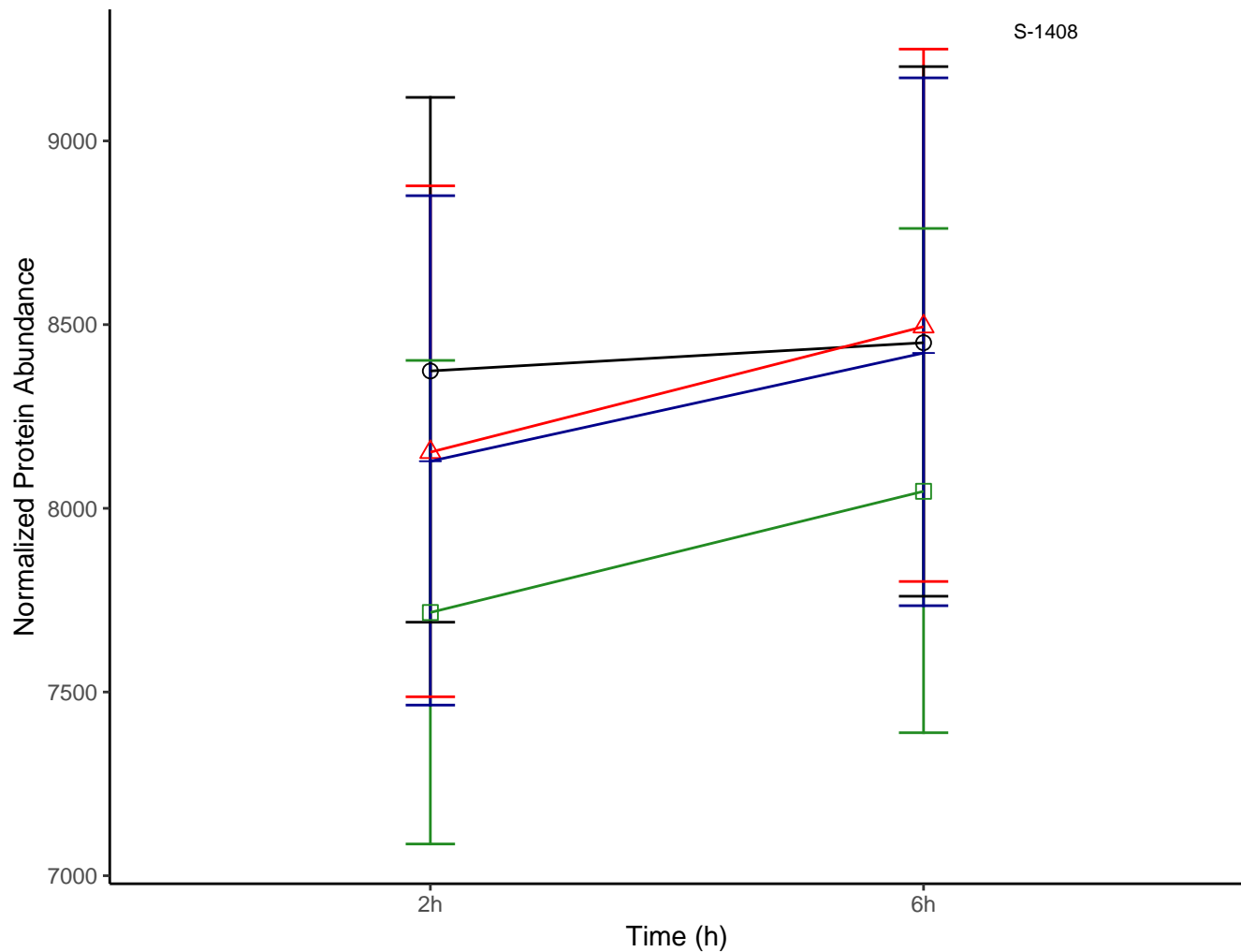
S-1407



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYM\_STAAM

S-1408

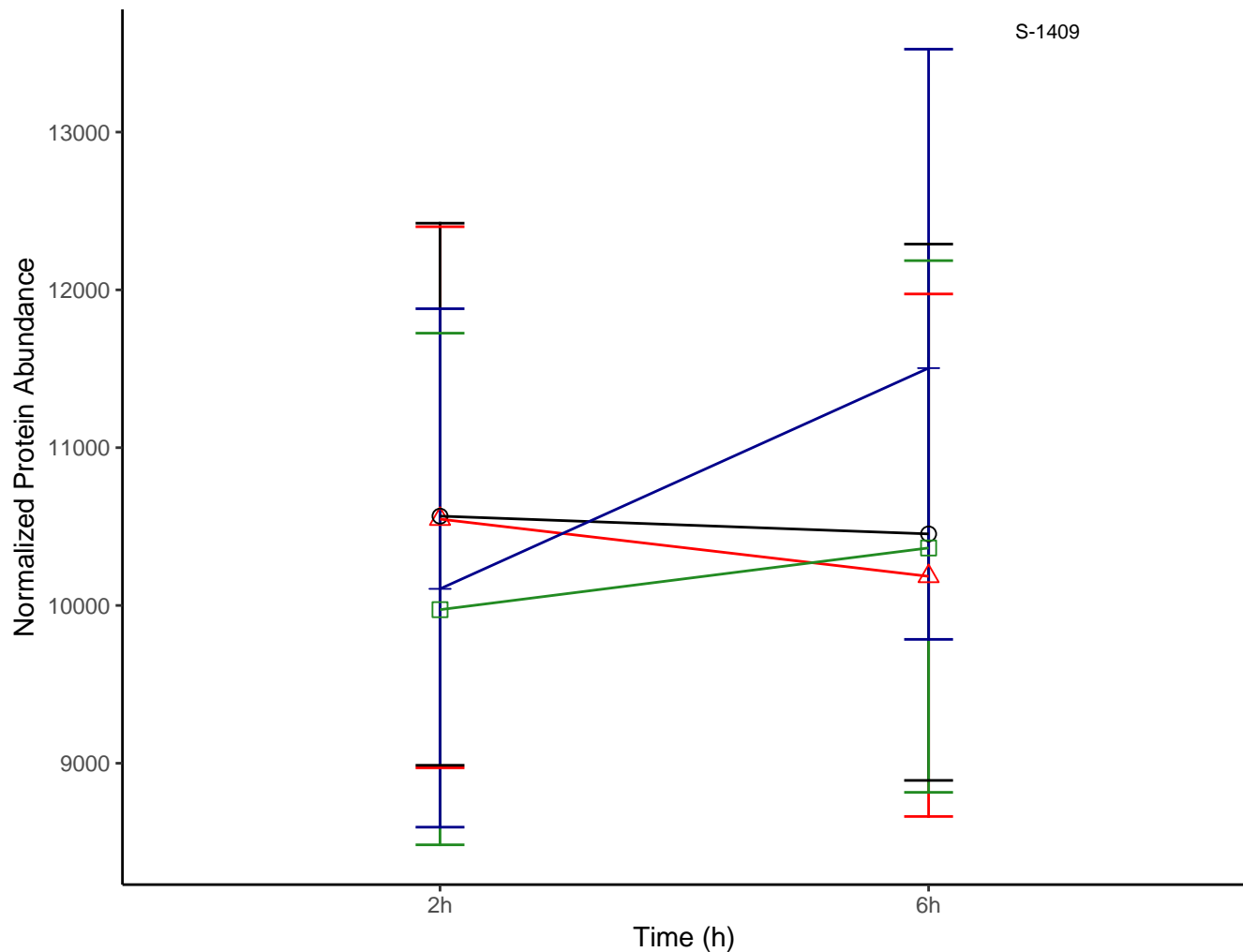


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# SYN\_STAAM

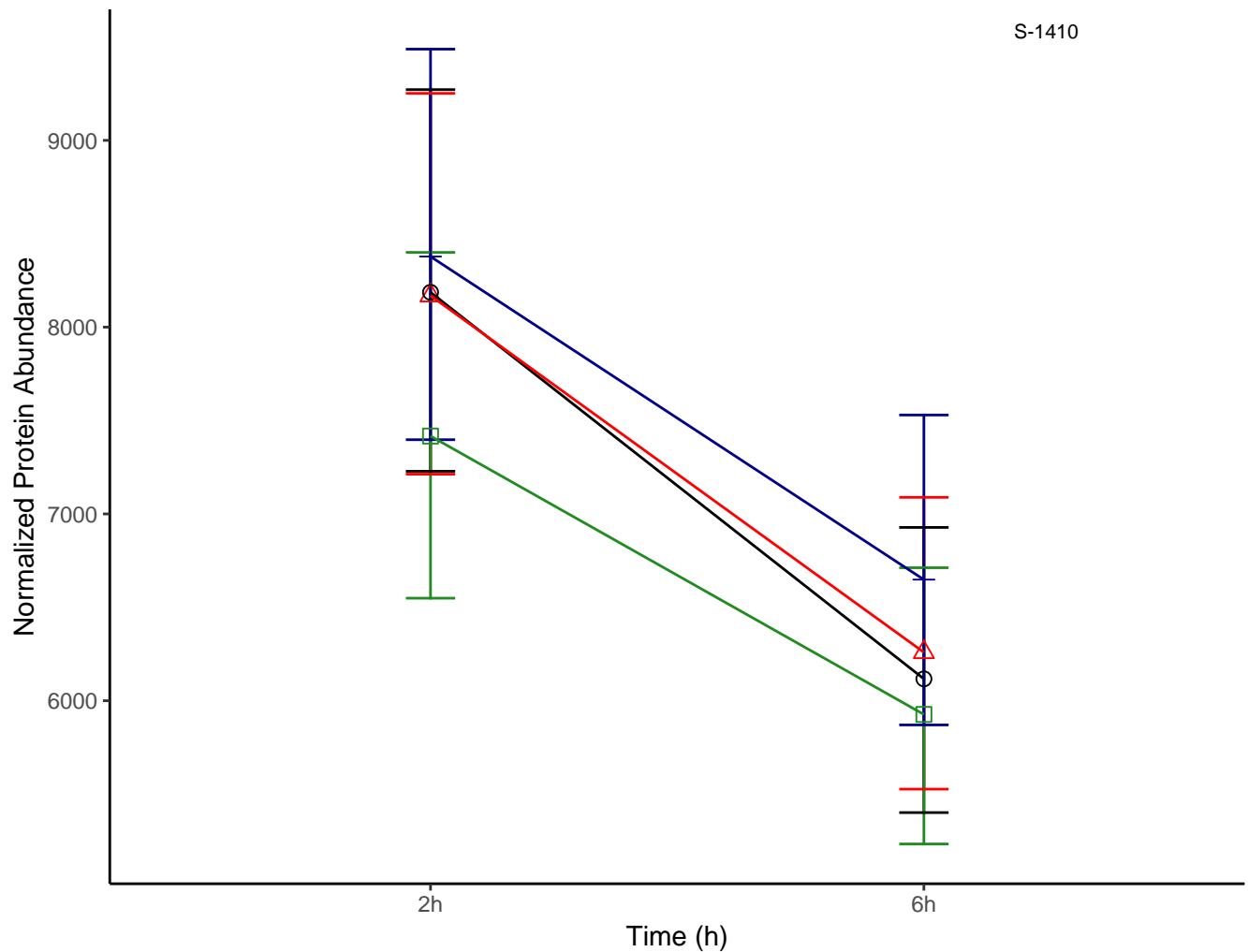
S-1409



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYP\_STAAM

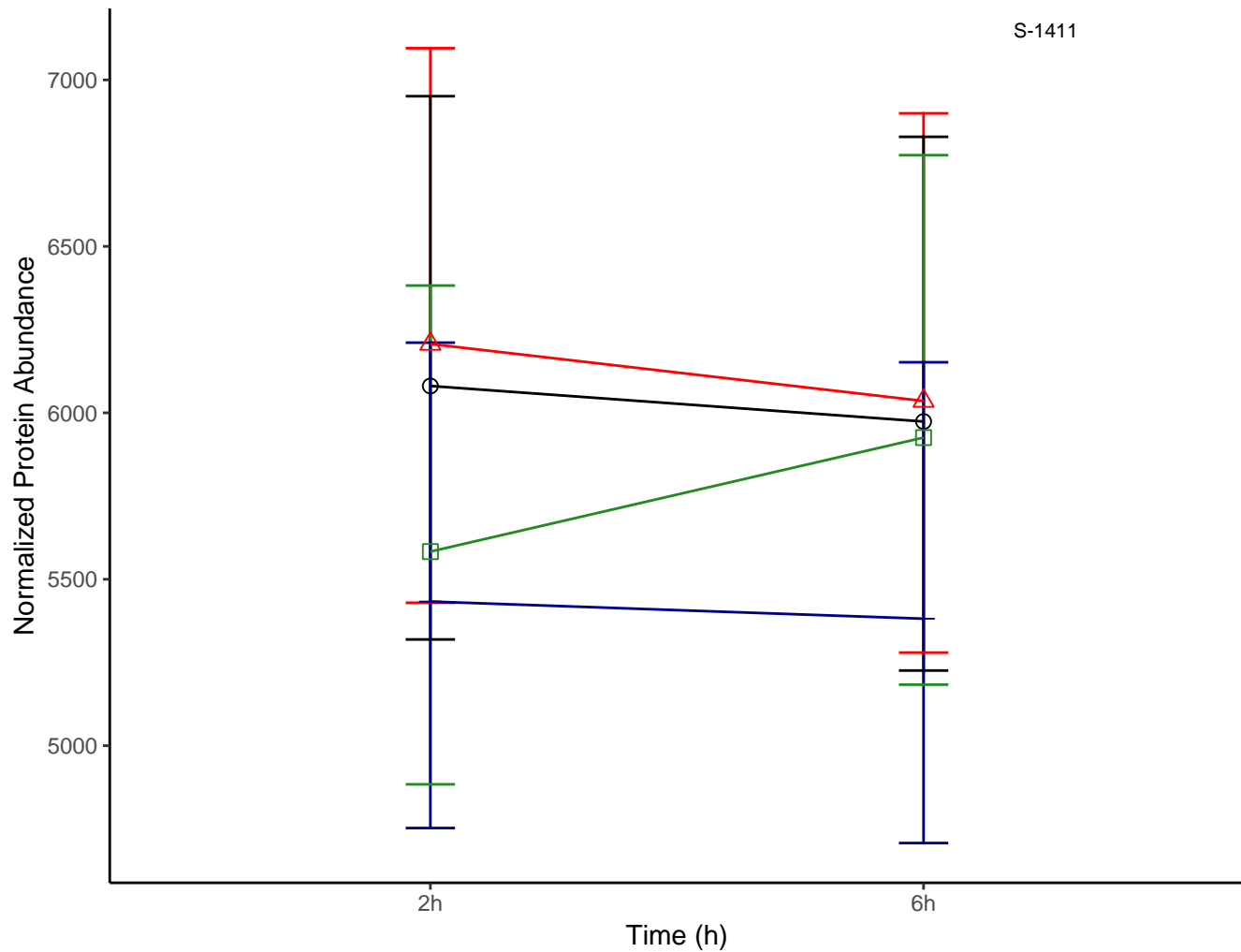
S-1410



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# SYR\_STAAM

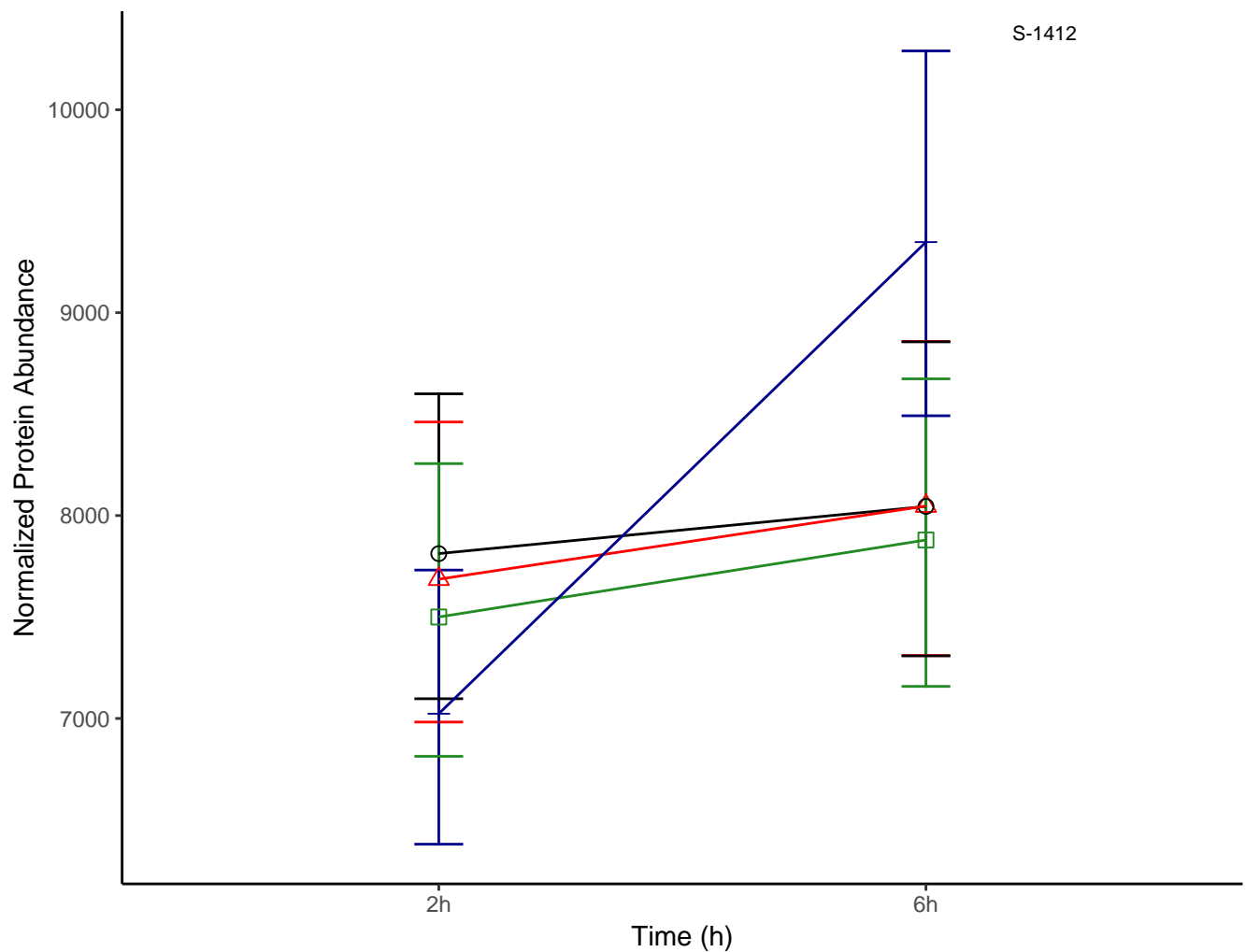
S-1411



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYS\_STAAM

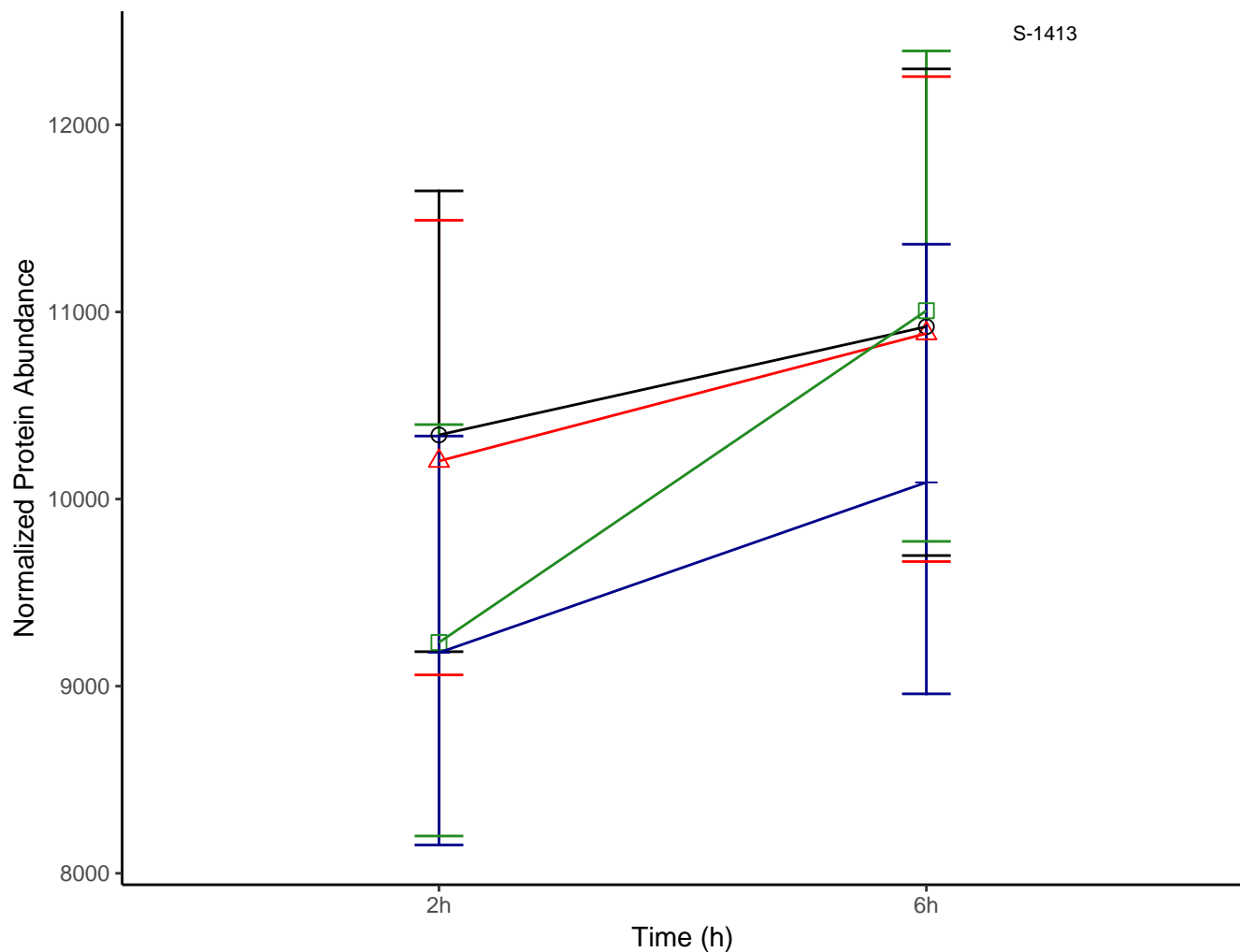
S-1412



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYT\_STAAM

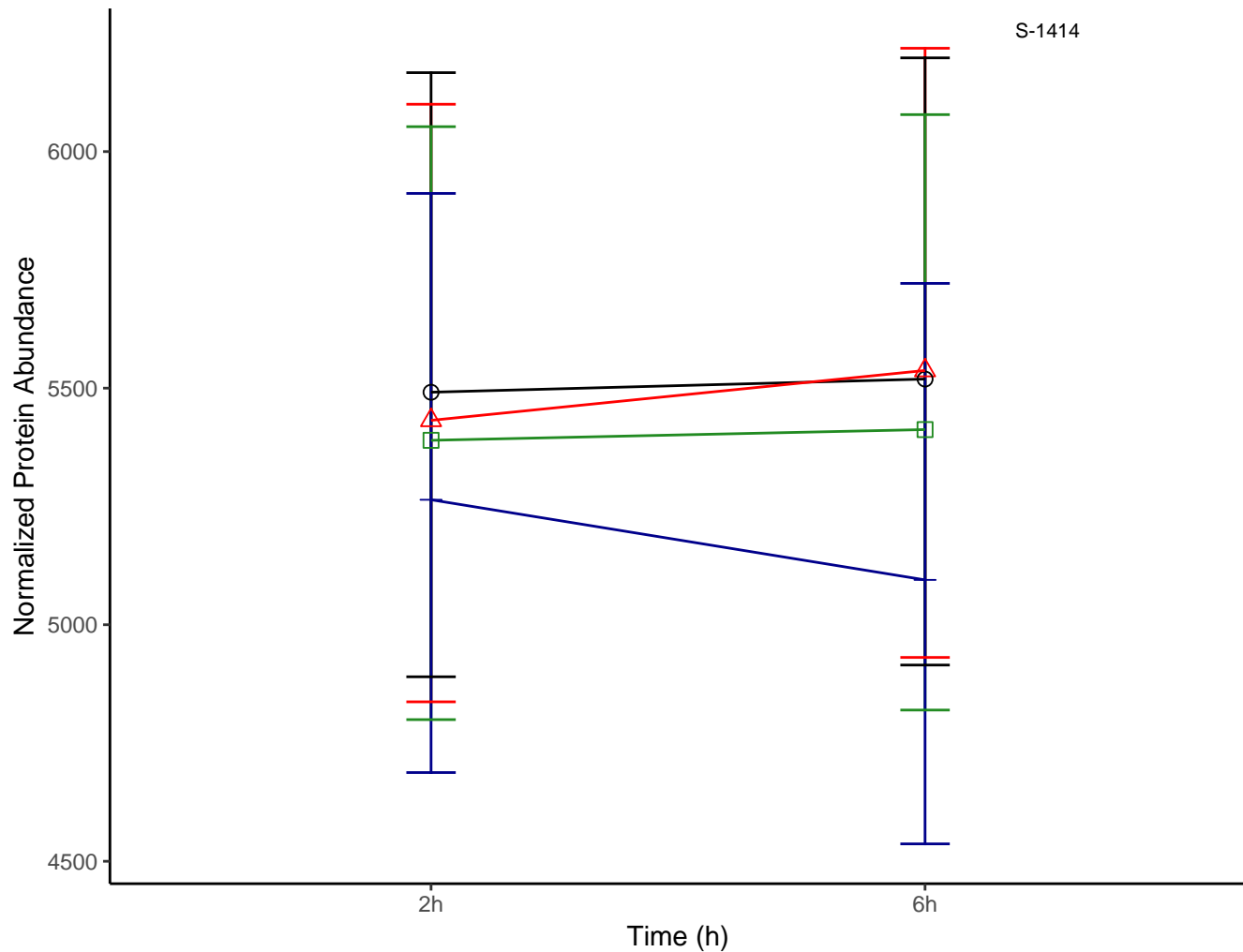
S-1413



- SA564
- △ SA564-Δ*hptRS*
- SA564-Δ*ccpA*
- + SA564-Δ*hptRS/ccpA*

# SYV\_STAAM

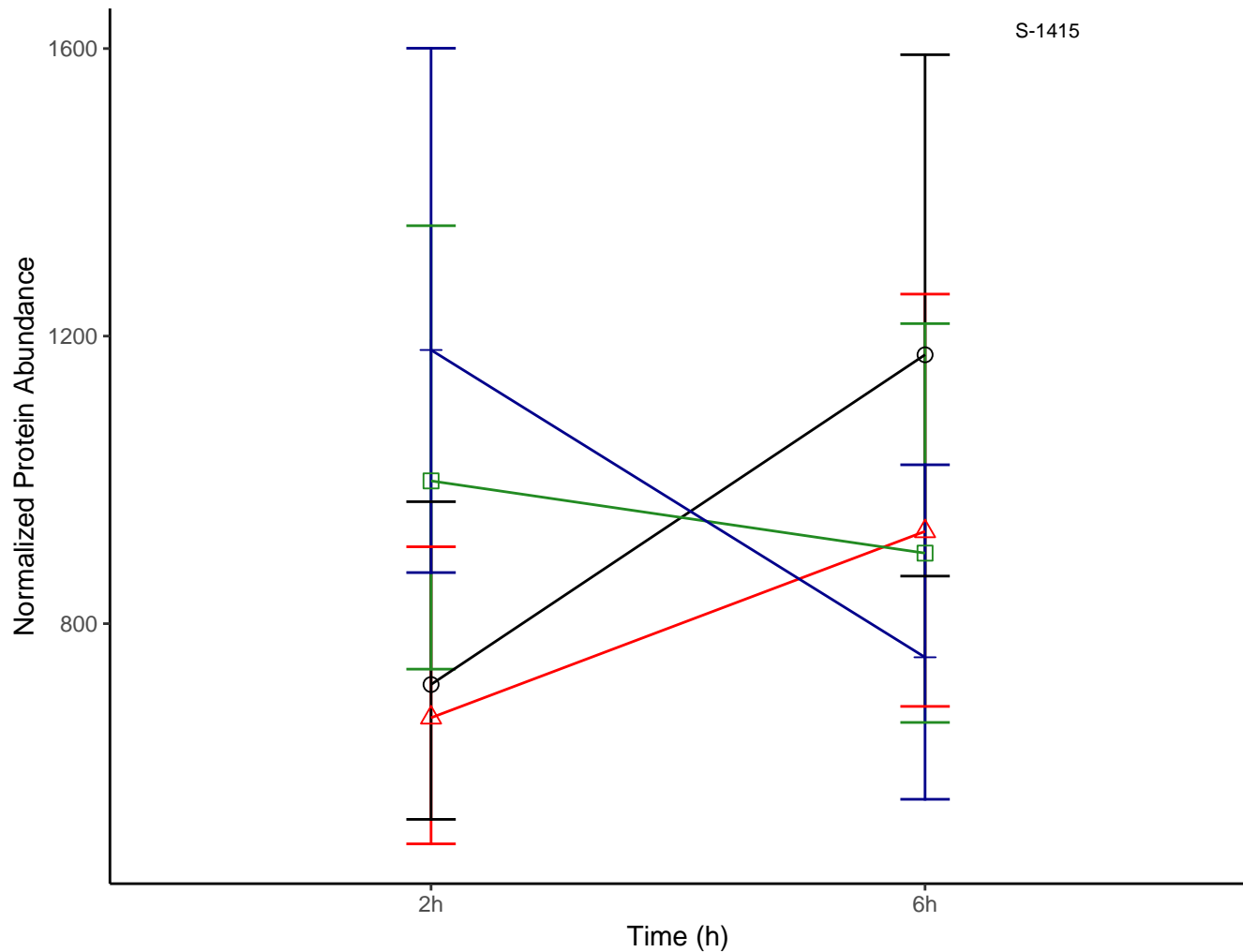
S-1414



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## SYW\_STAAM

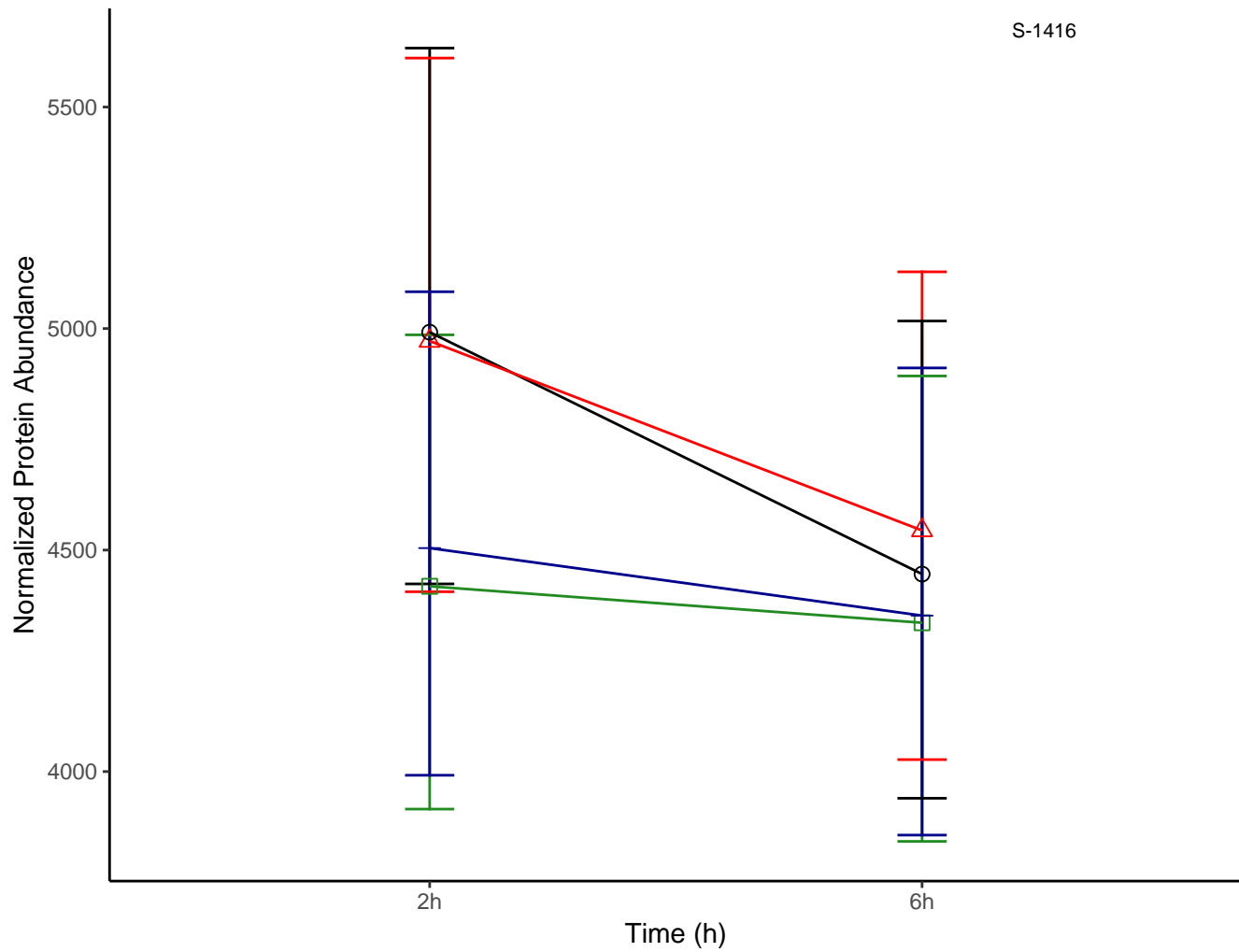
S-1415



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SYT\_STAAM

S-1416

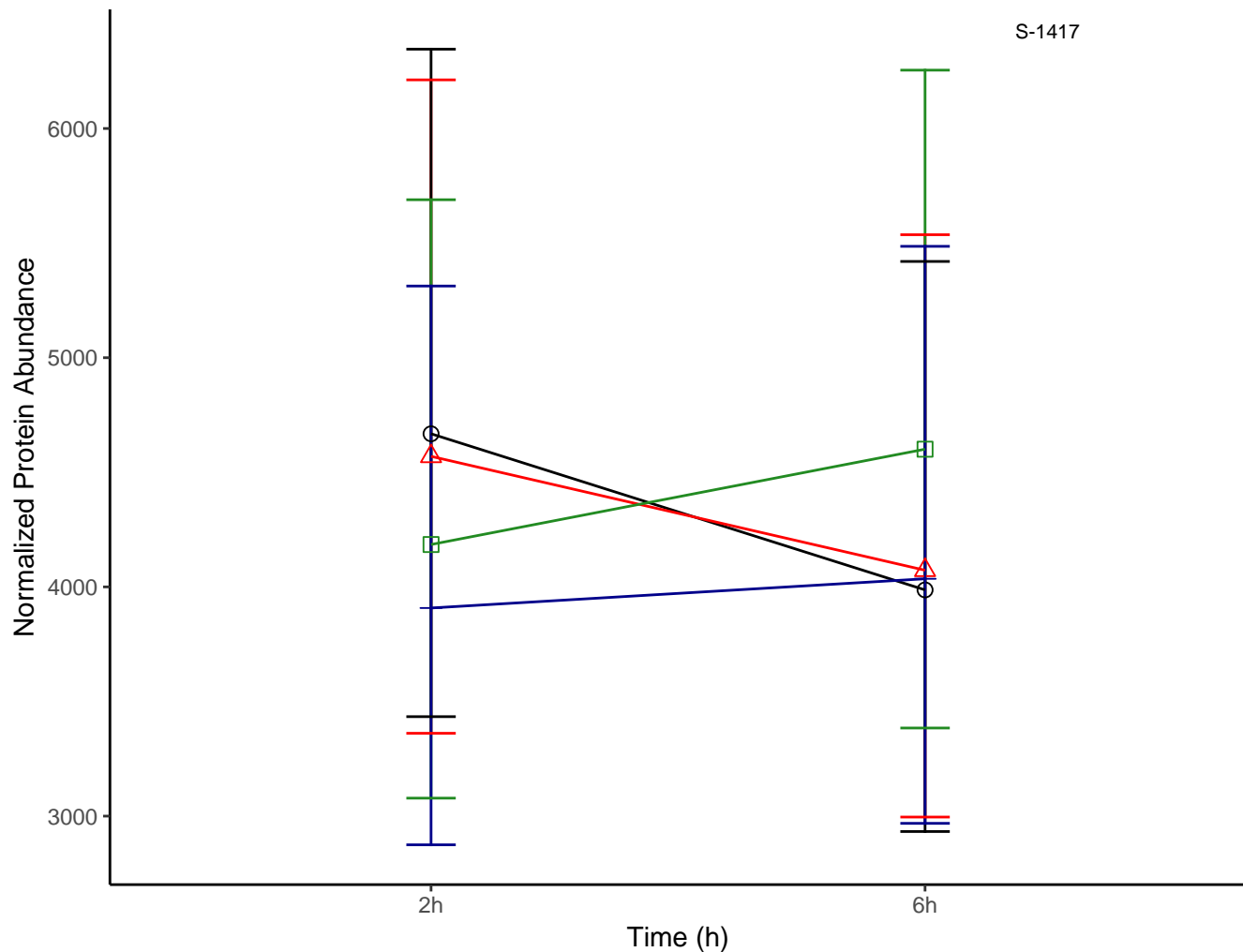


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# T431\_STAAM

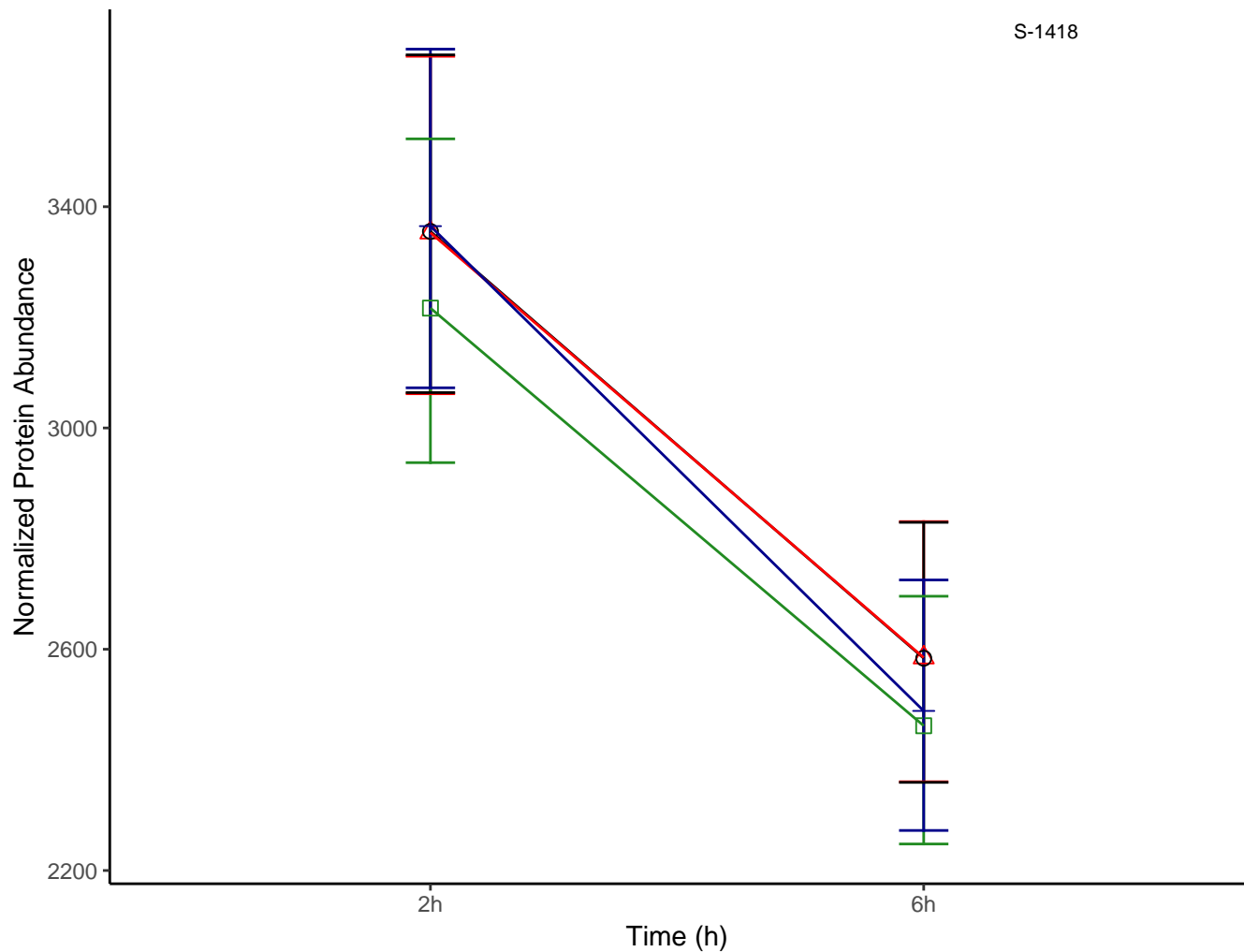
S-1417



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TADA\_STAAM

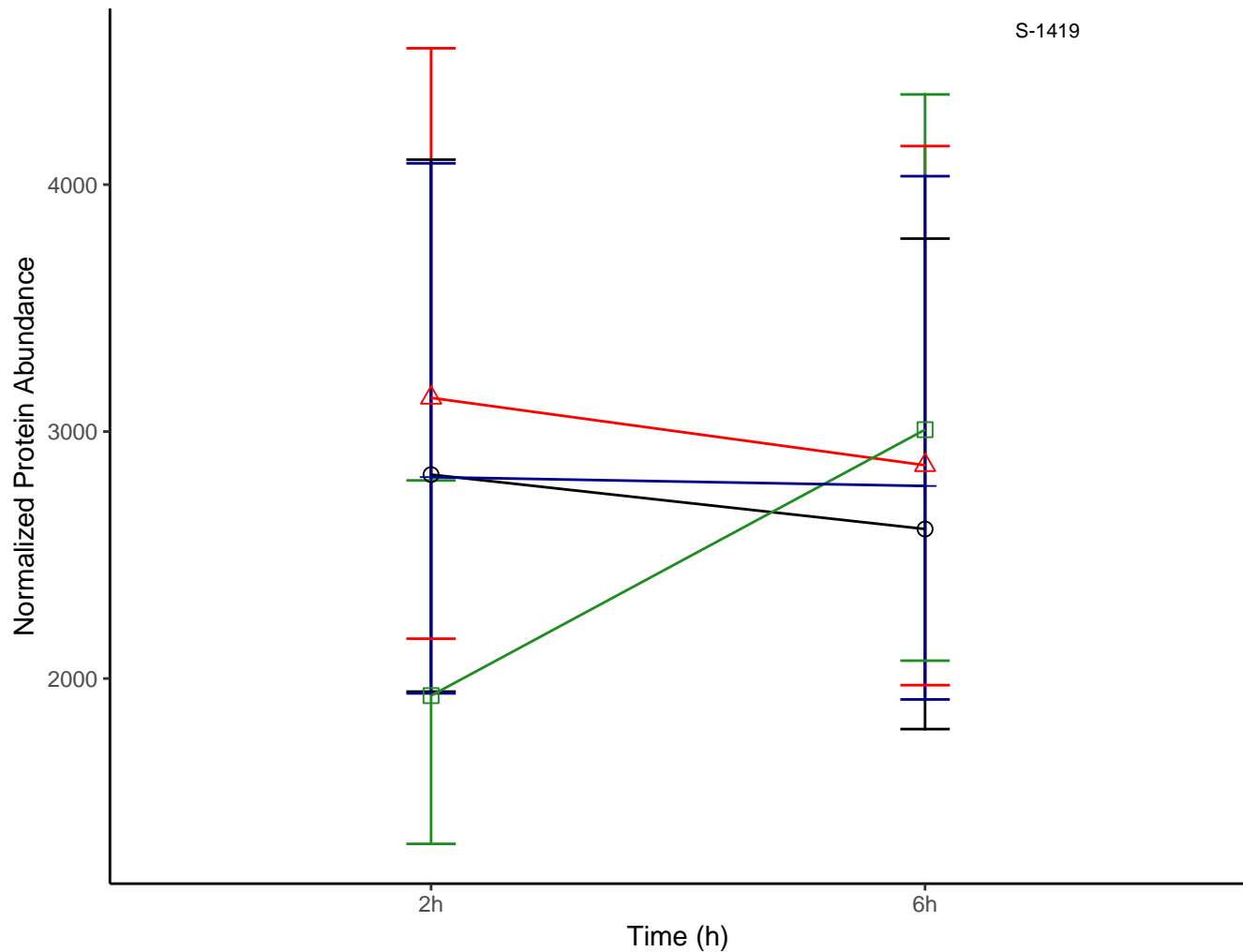
S-1418



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## TAGA\_STAAM

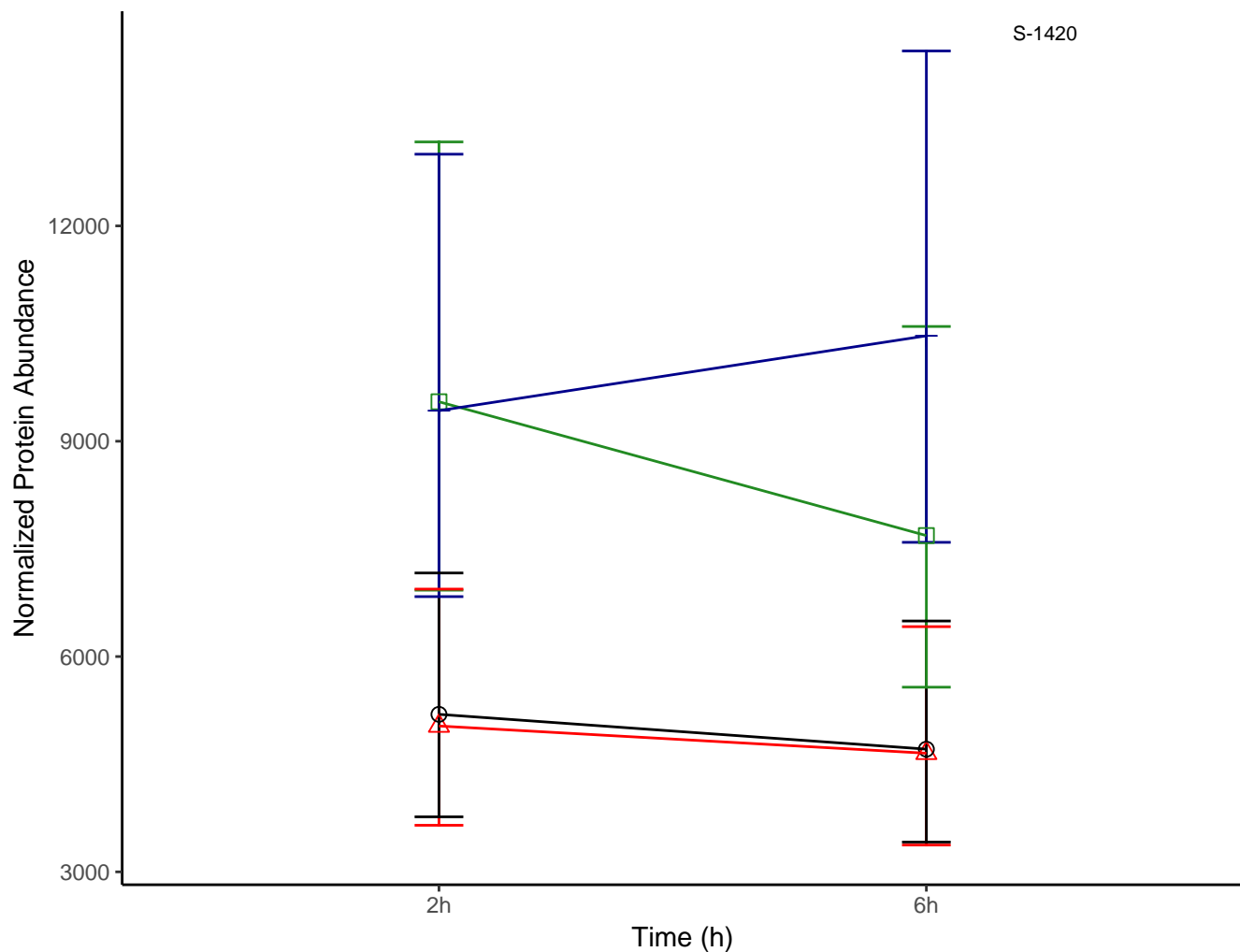
S-1419



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TDCB\_STAAM

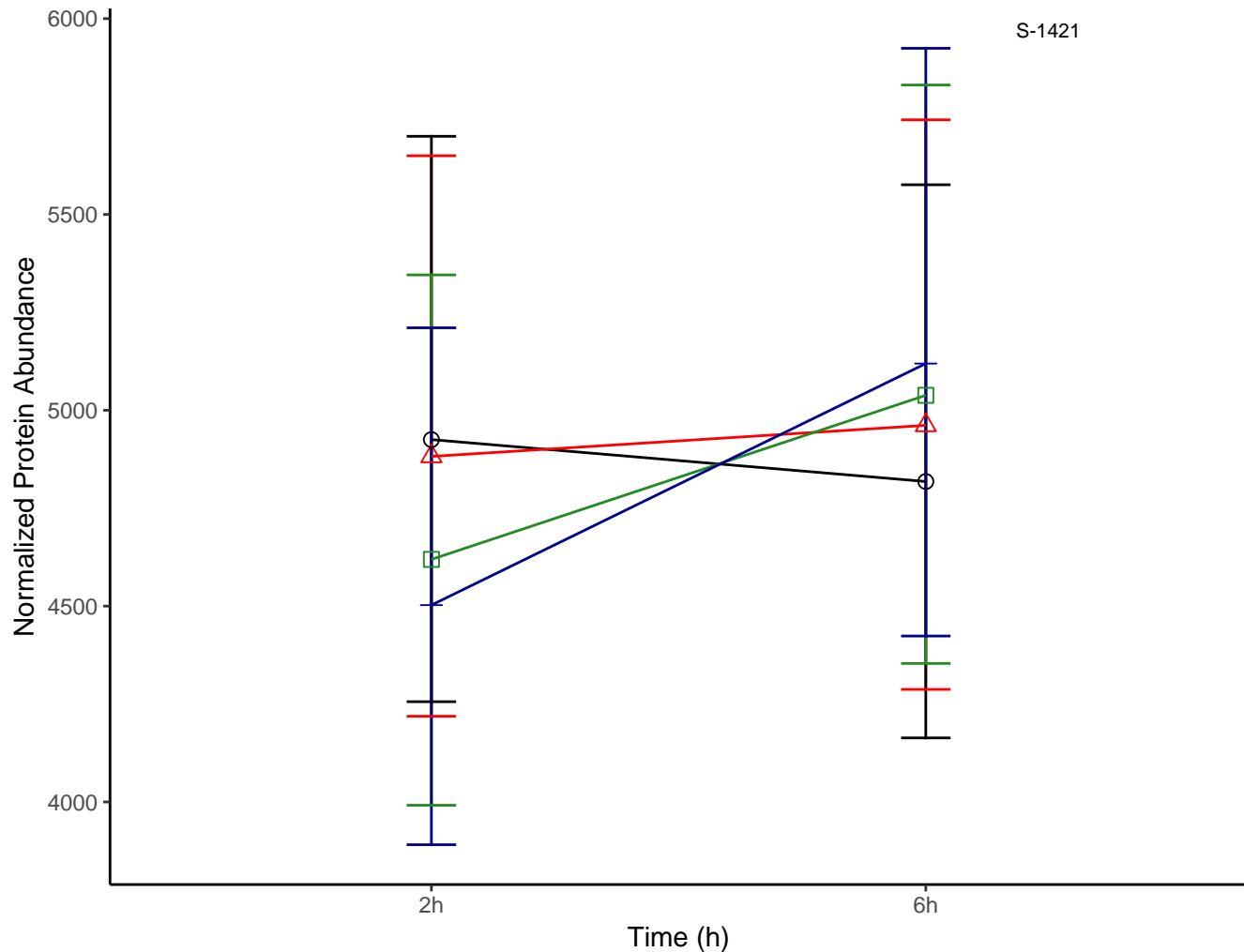
S-1420



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TELL\_STAAM

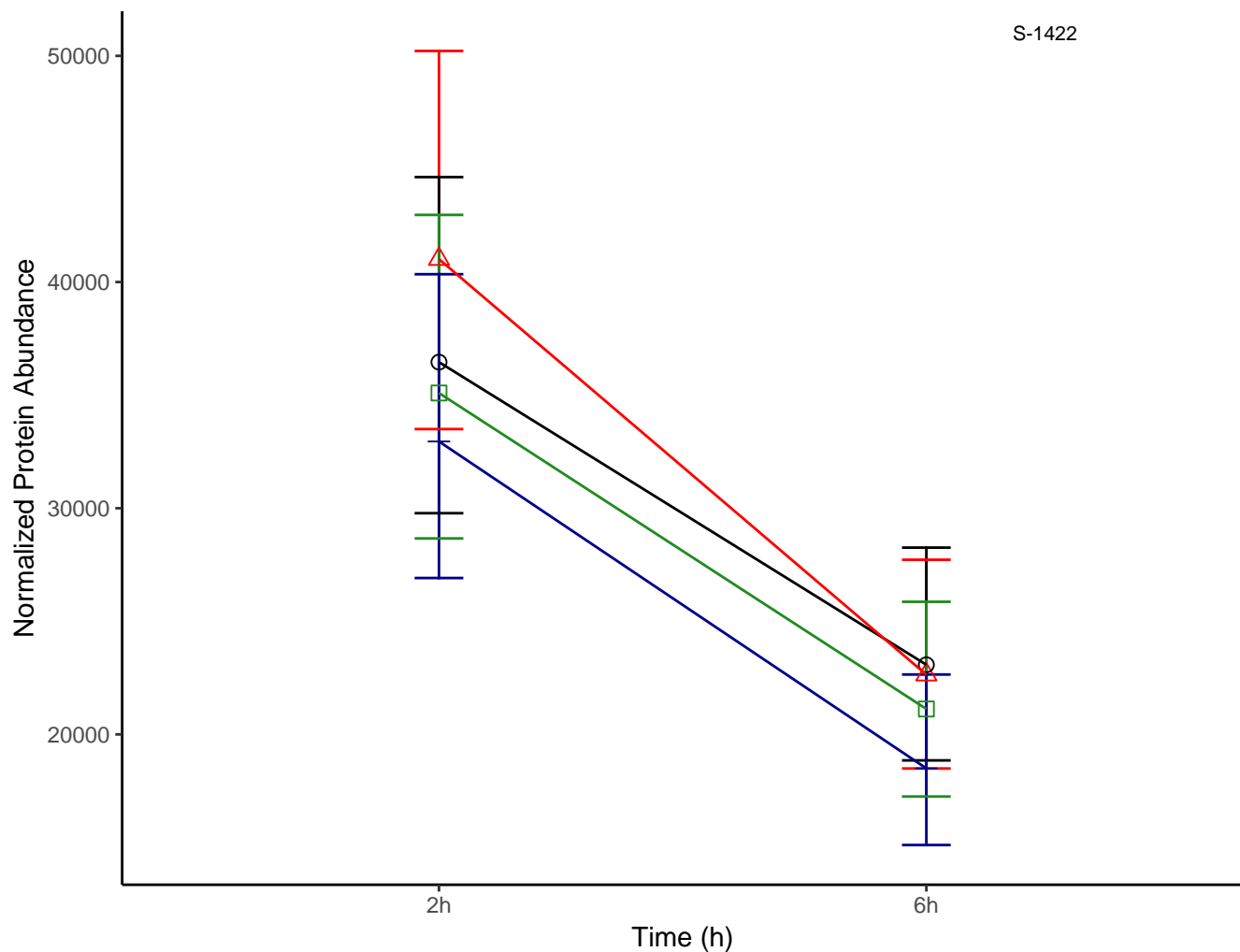
S-1421



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# THID\_STAAM

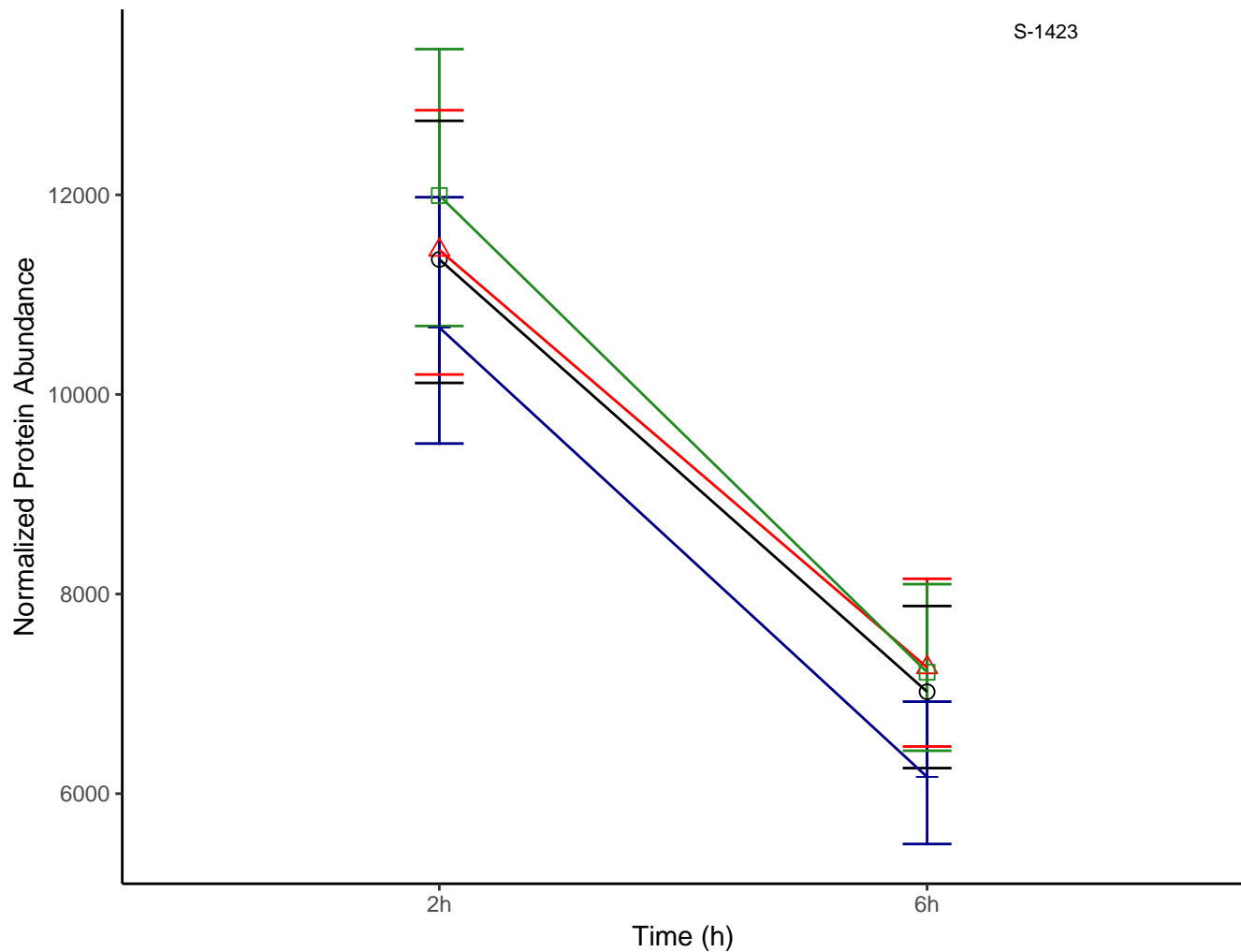
S-1422



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# THIM\_STAAM

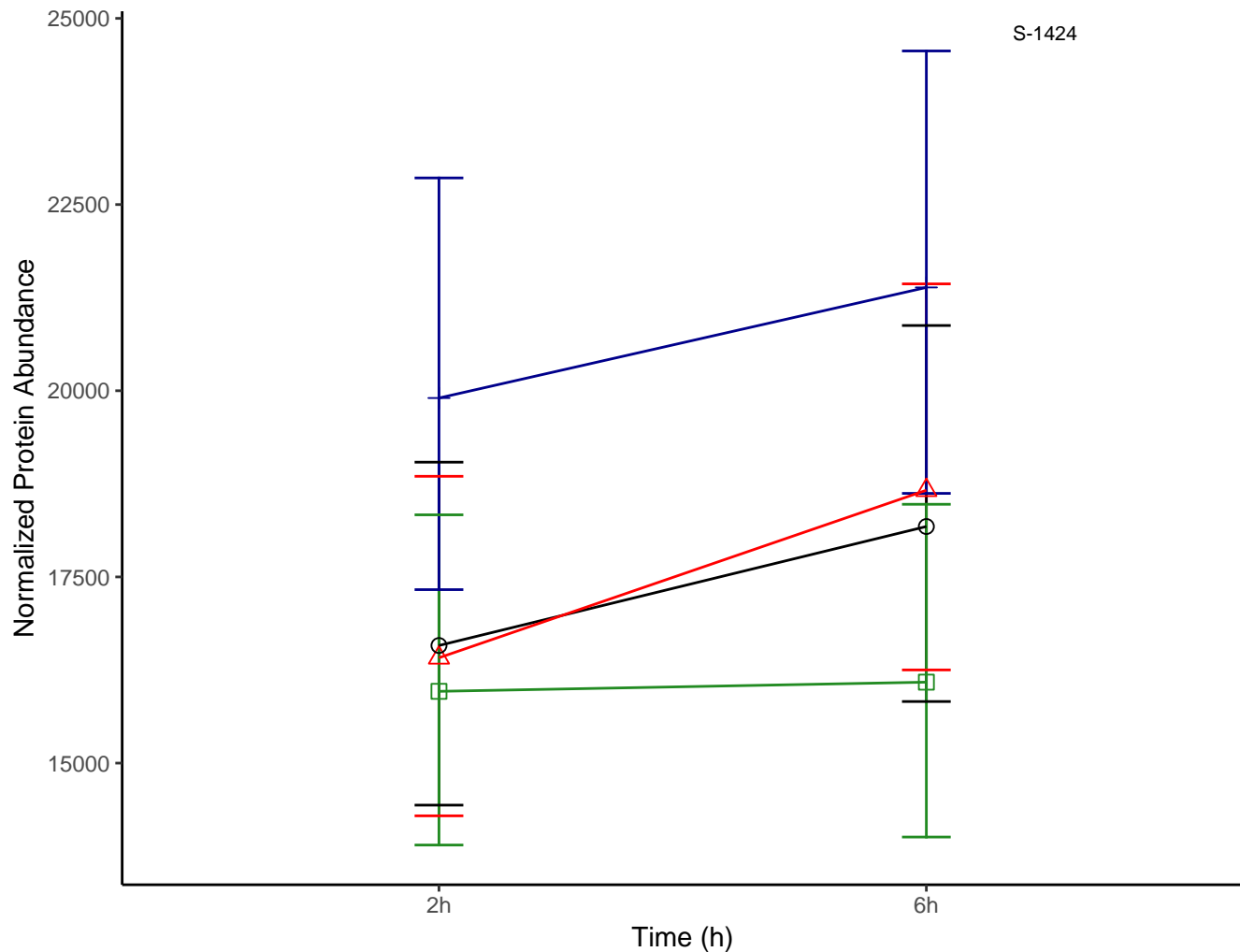
S-1423



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# THIO\_STAAM

S-1424

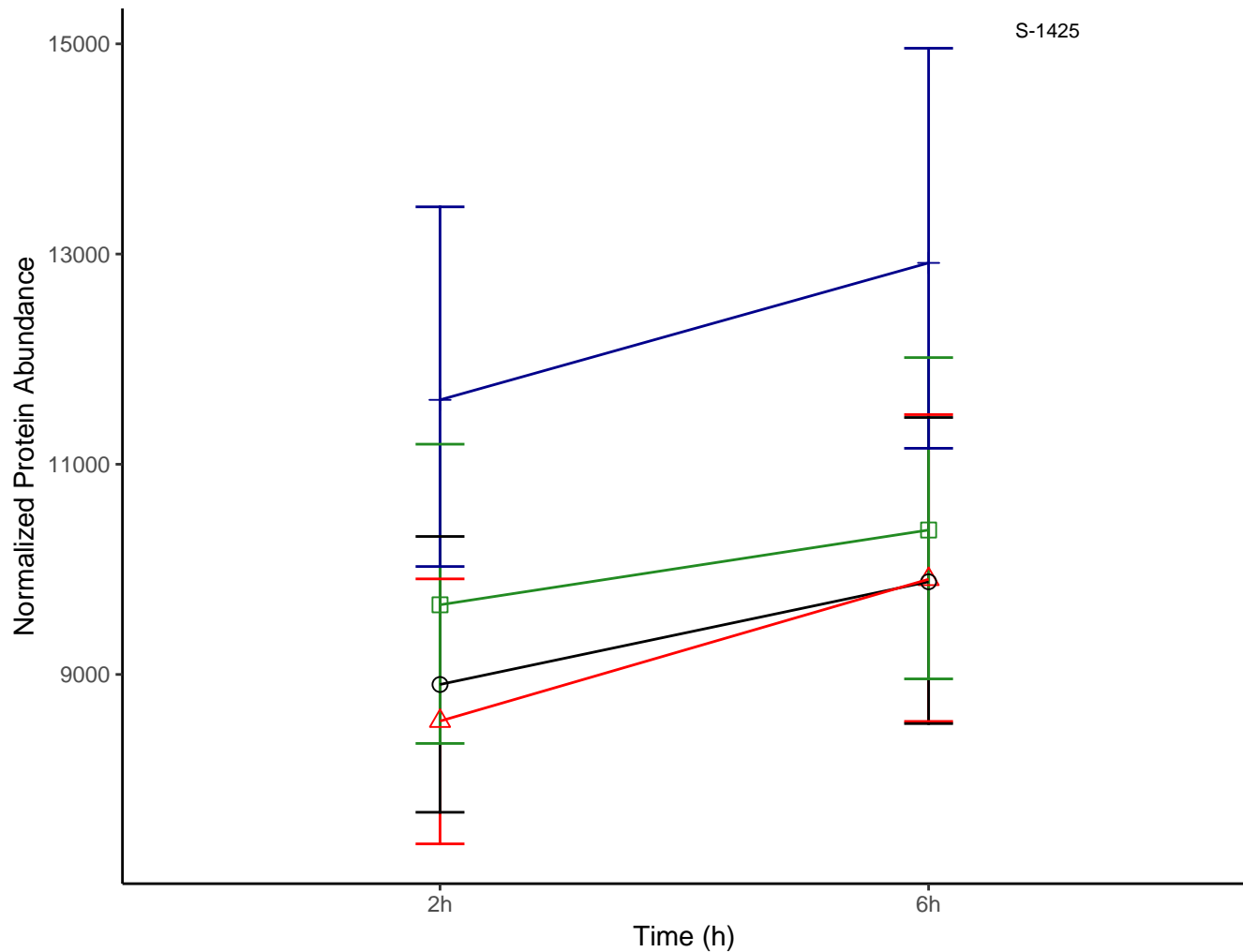


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# THLA\_STAAM

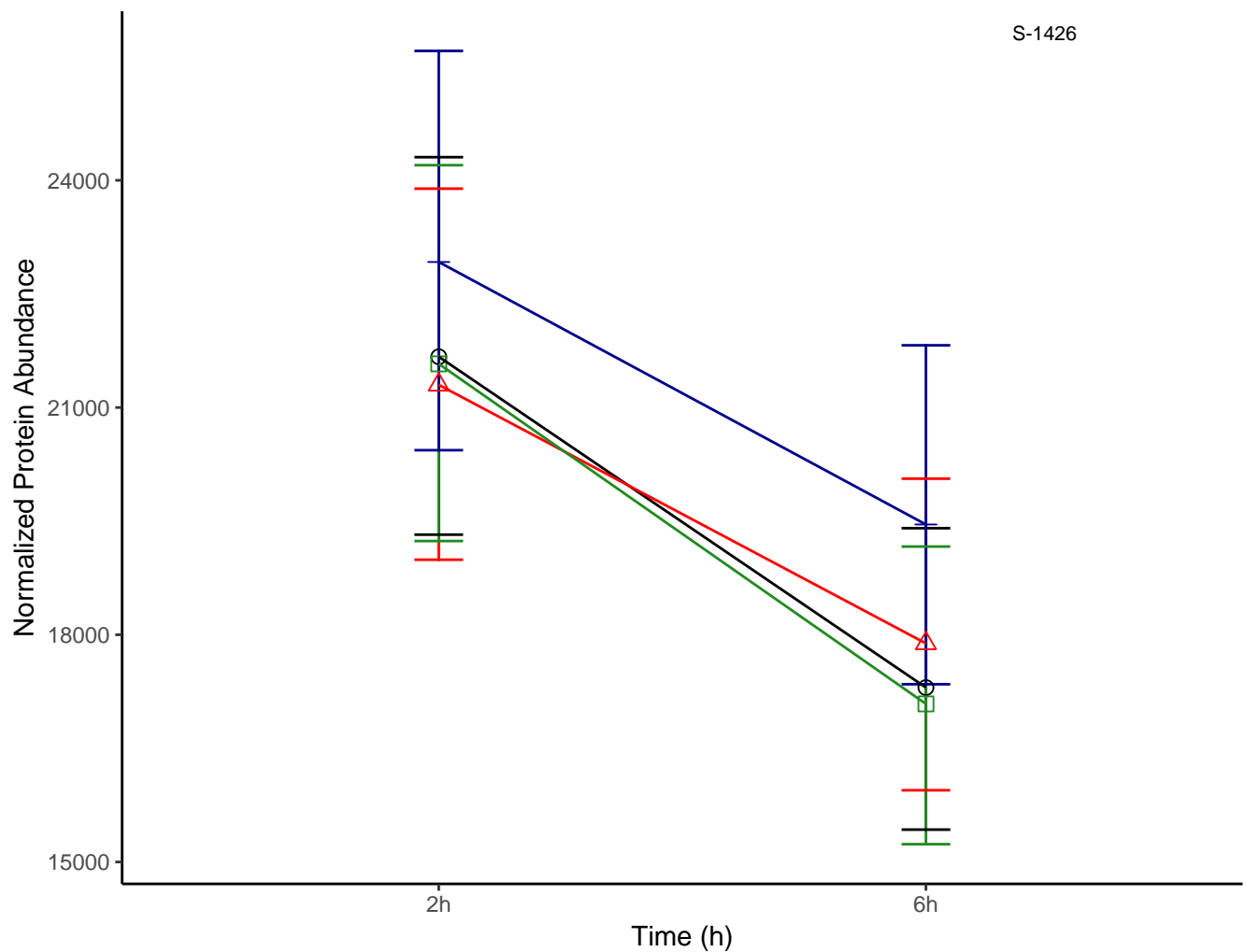
S-1425



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TIG\_STAAM

S-1426



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TKT\_STAAM

S-1427

Normalized Protein Abundance

15000

12500

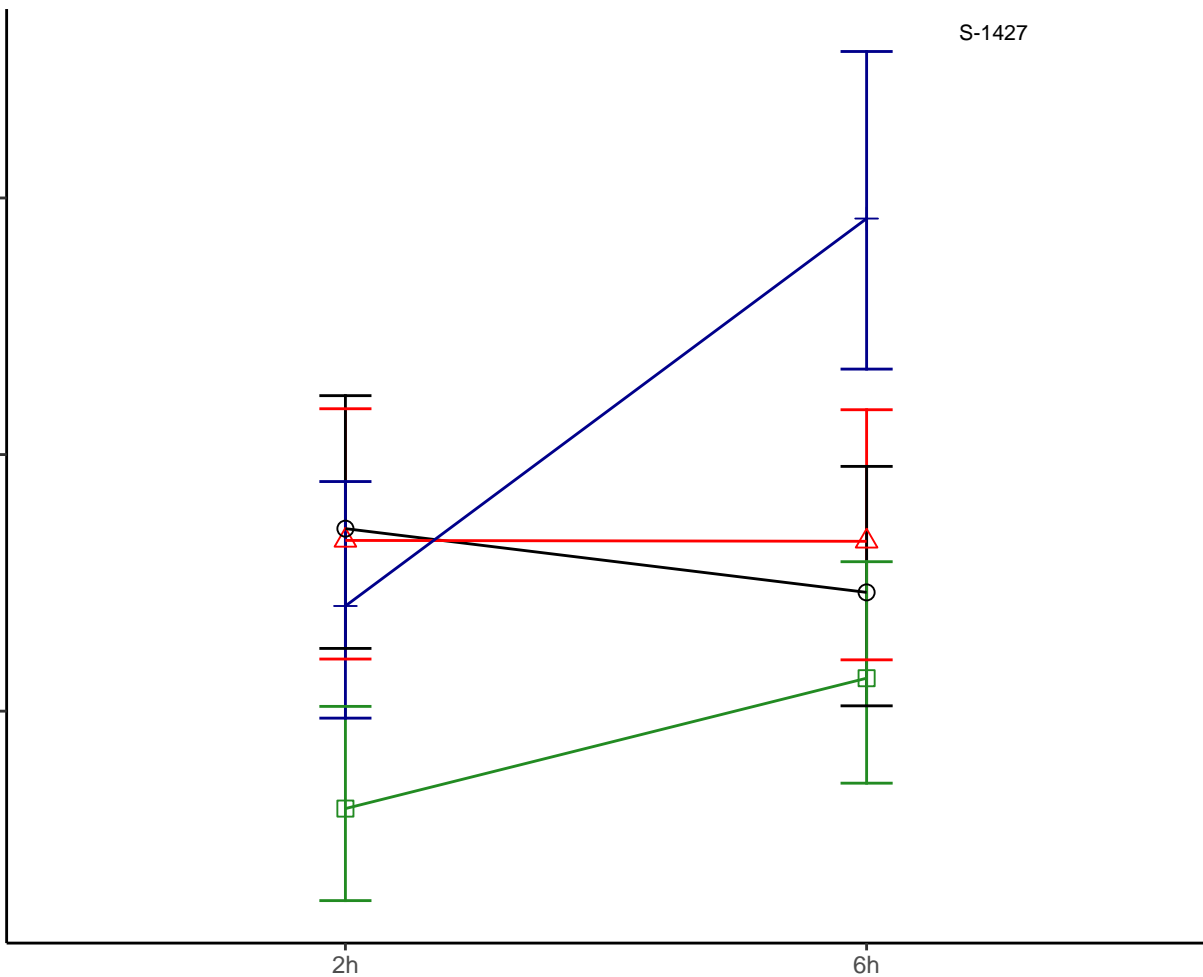
10000

2h

6h

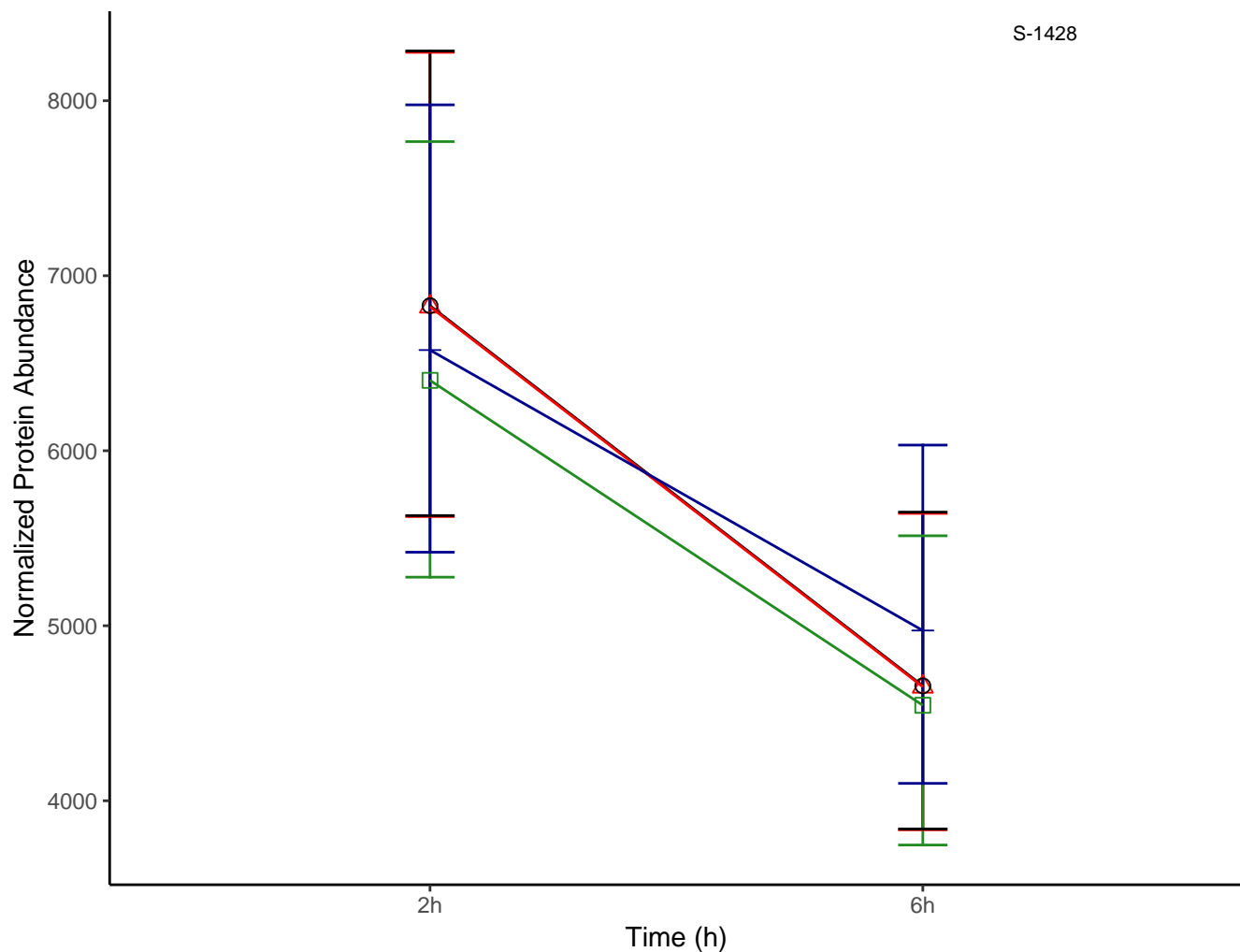
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# TOP1\_STAAM

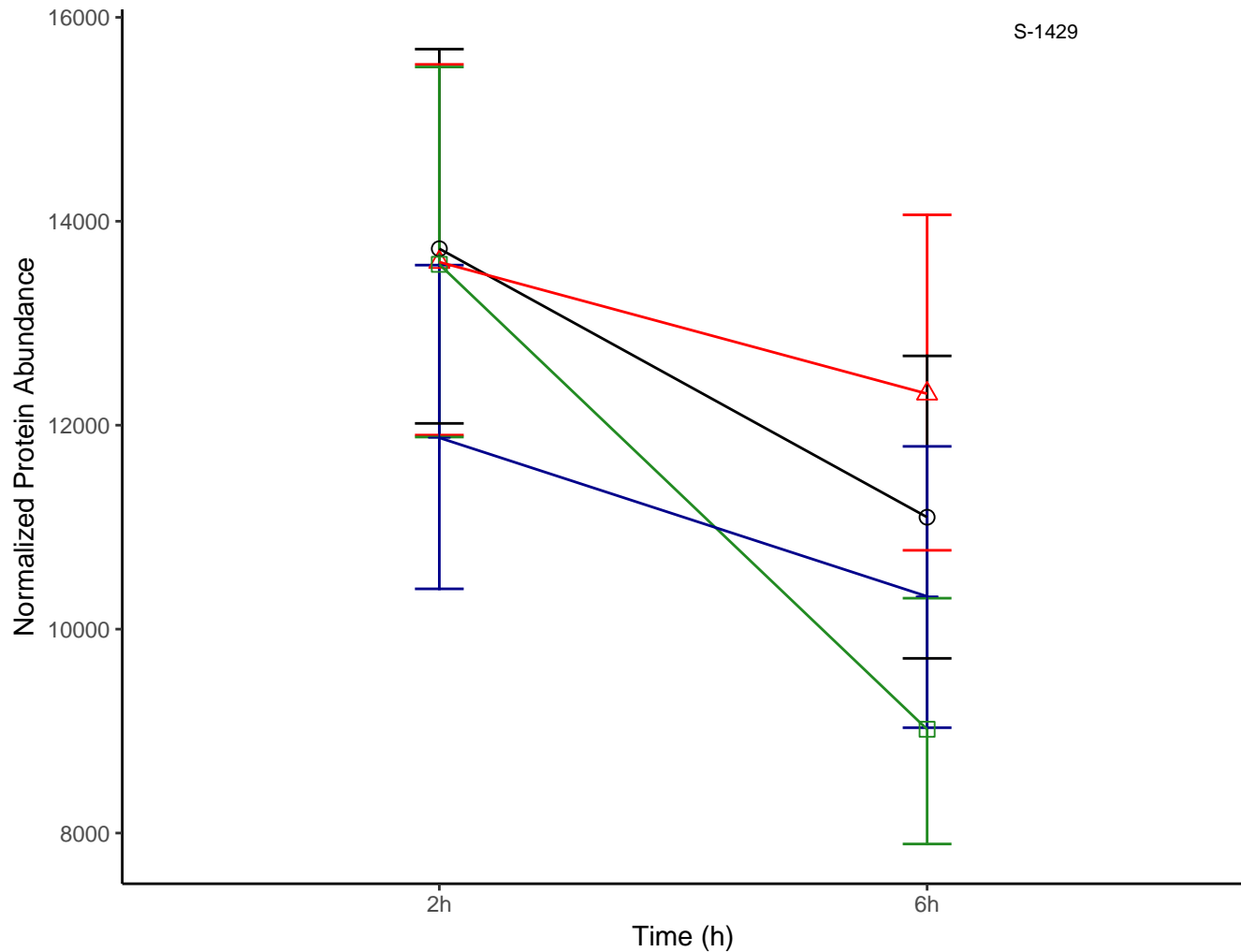
S-1428



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TOP3\_STAAM

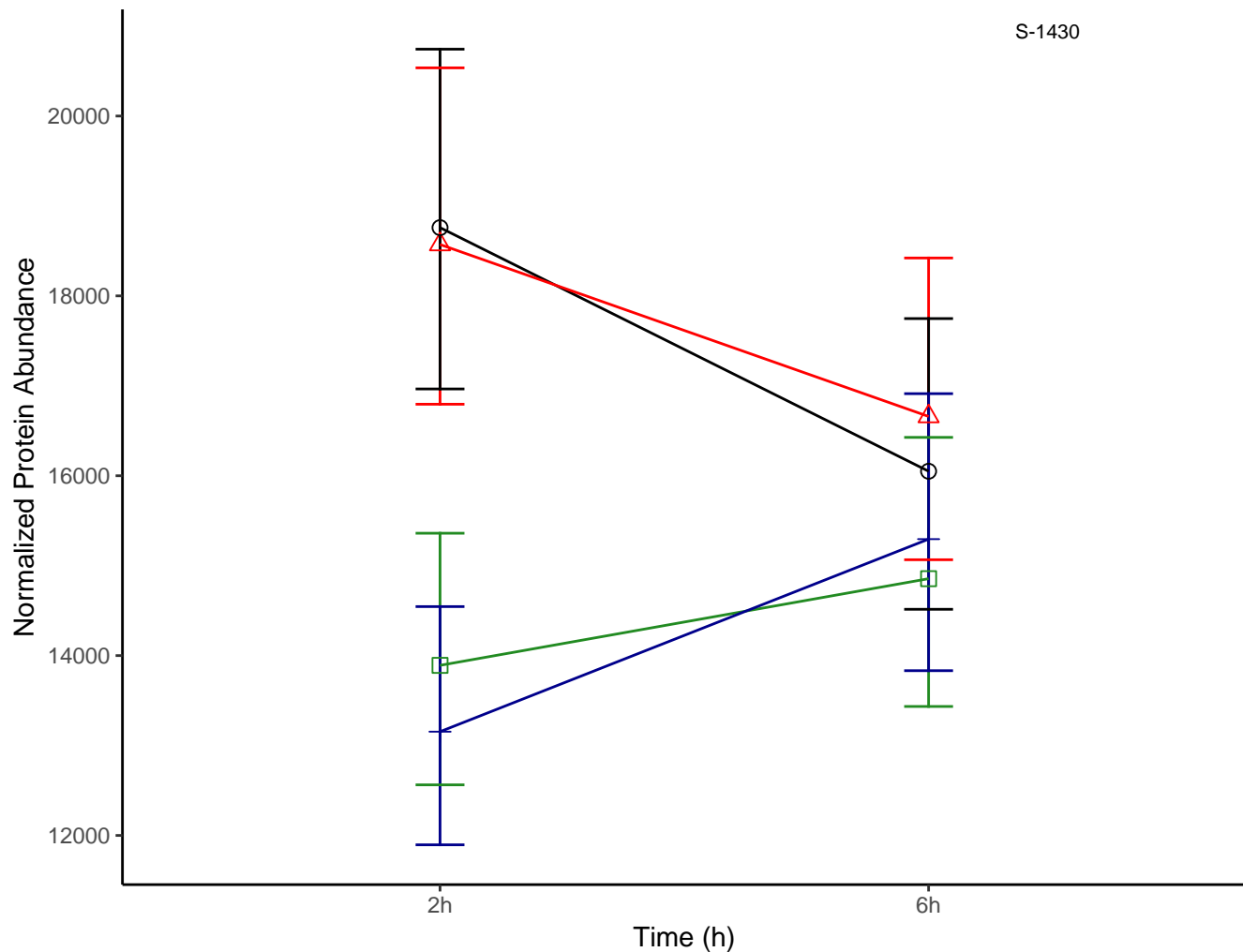
S-1429



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TPIS\_STAAM

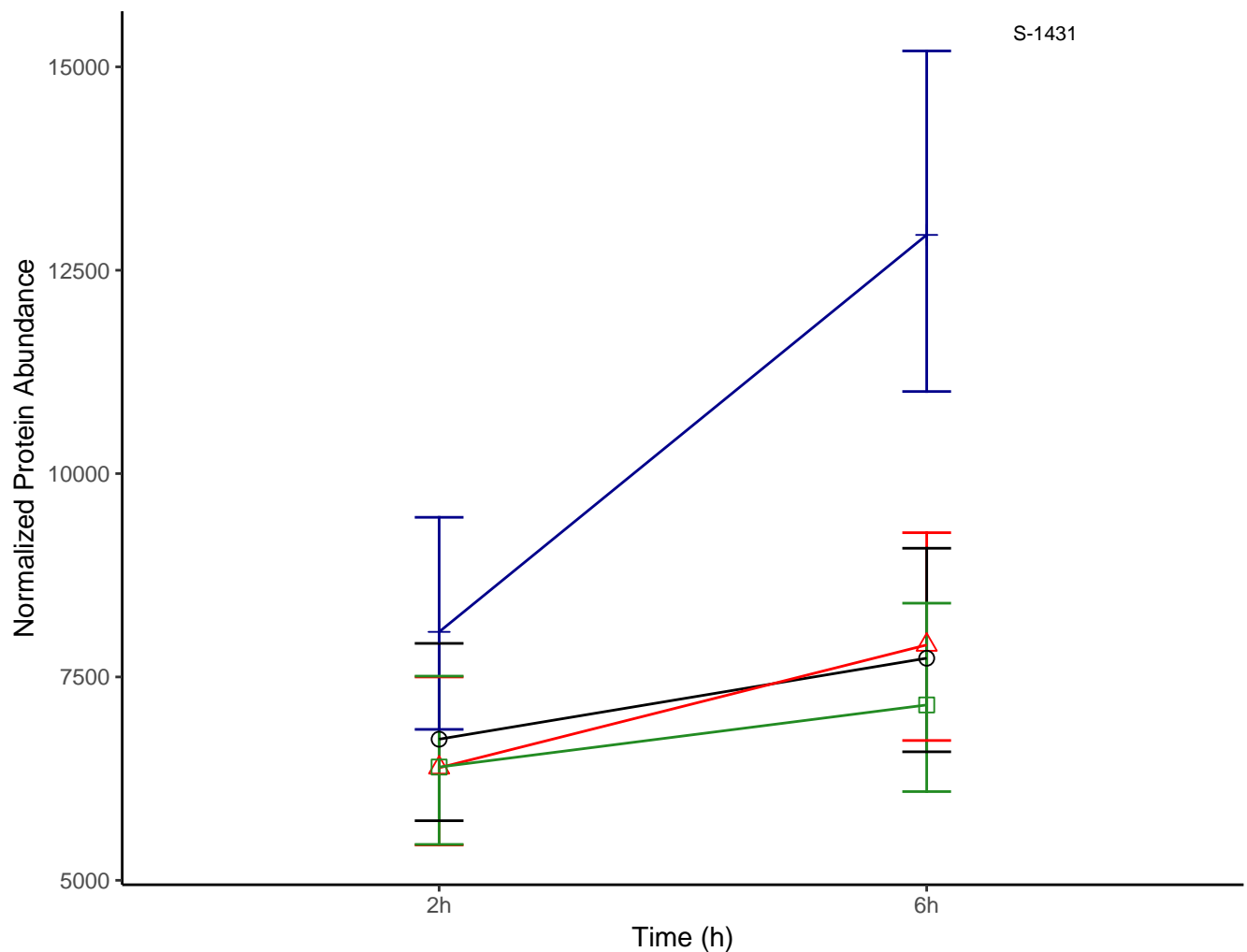
S-1430



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TPX\_STAAM

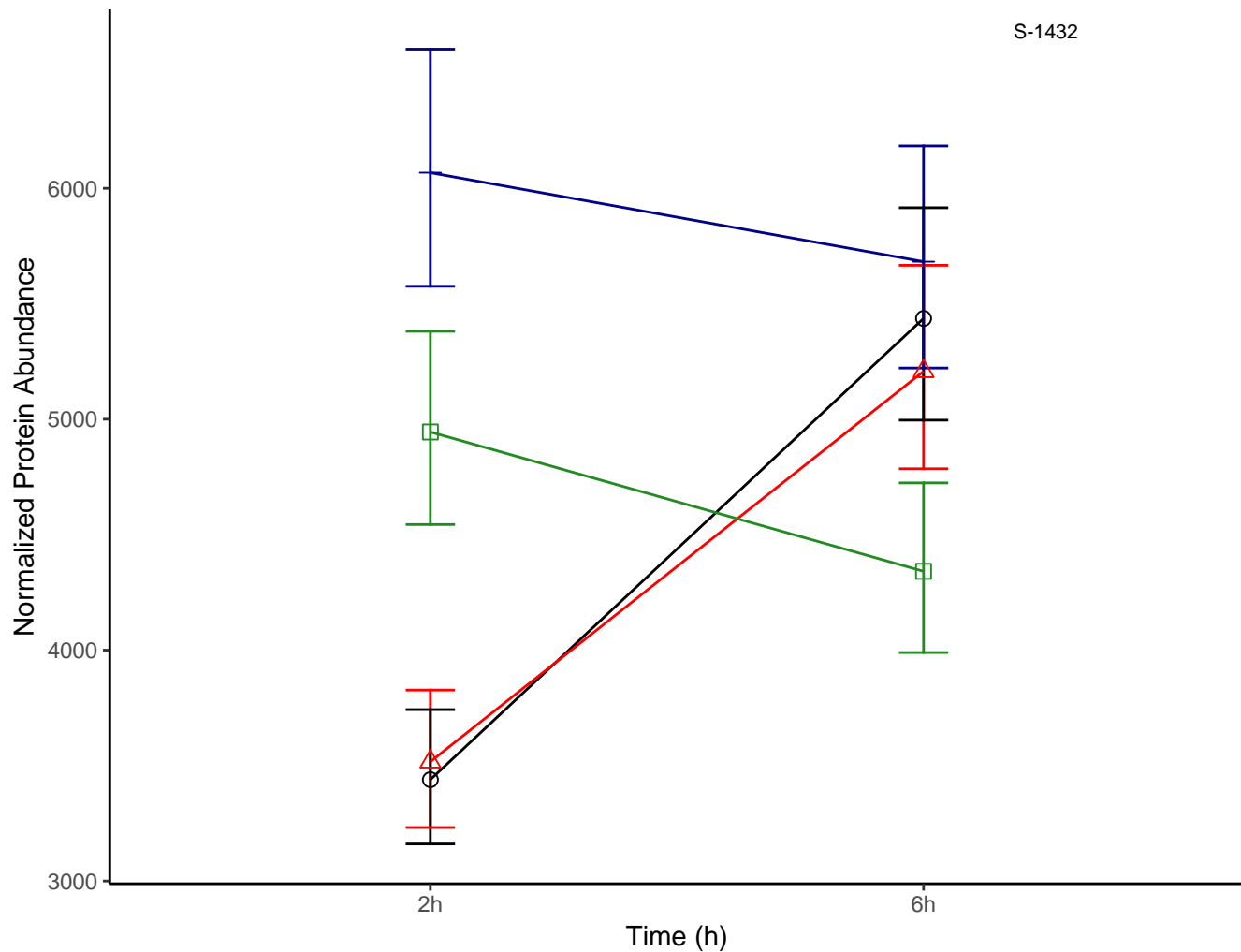
S-1431



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRAC\_STAAM

S-1432

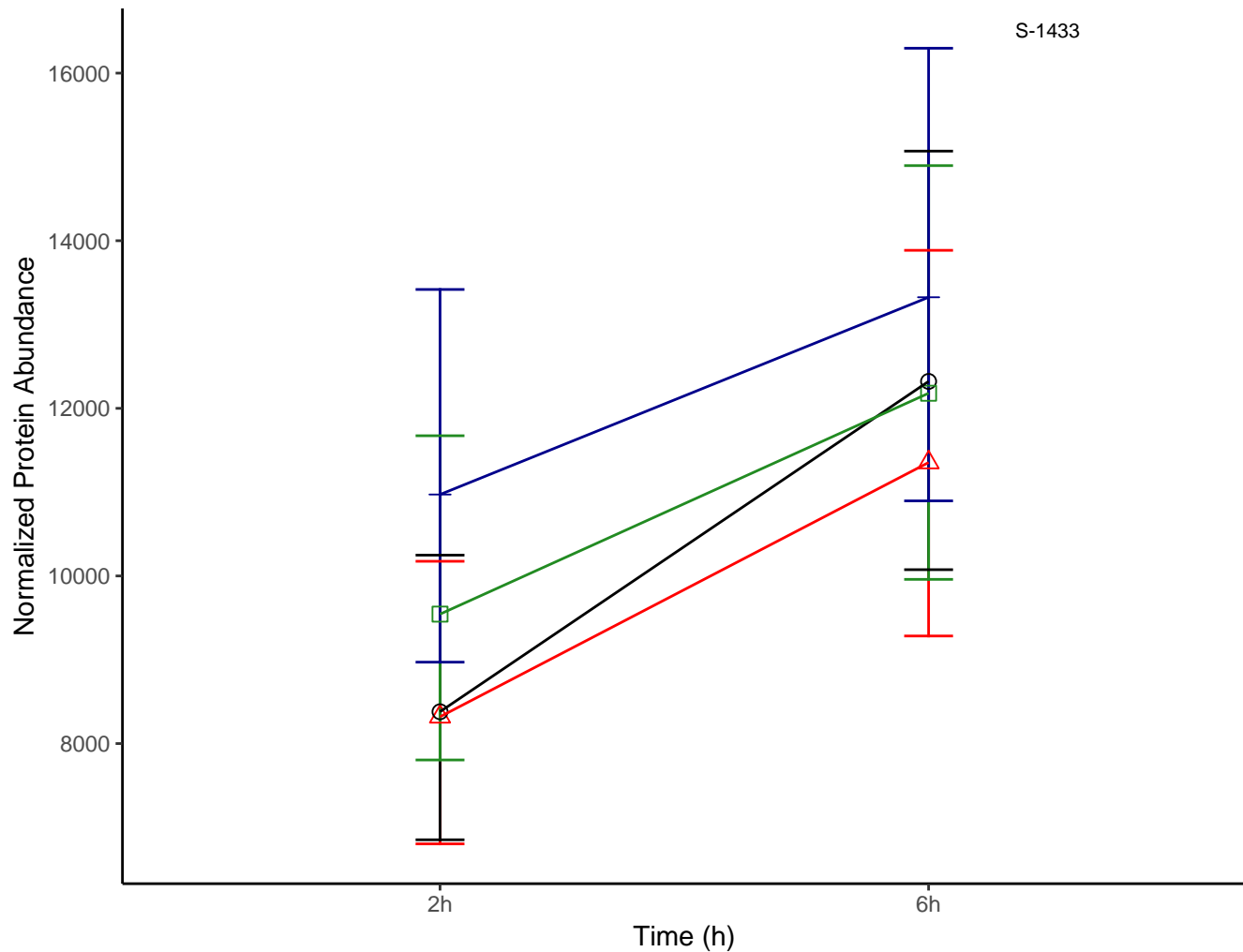


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# TRAP\_STAAM

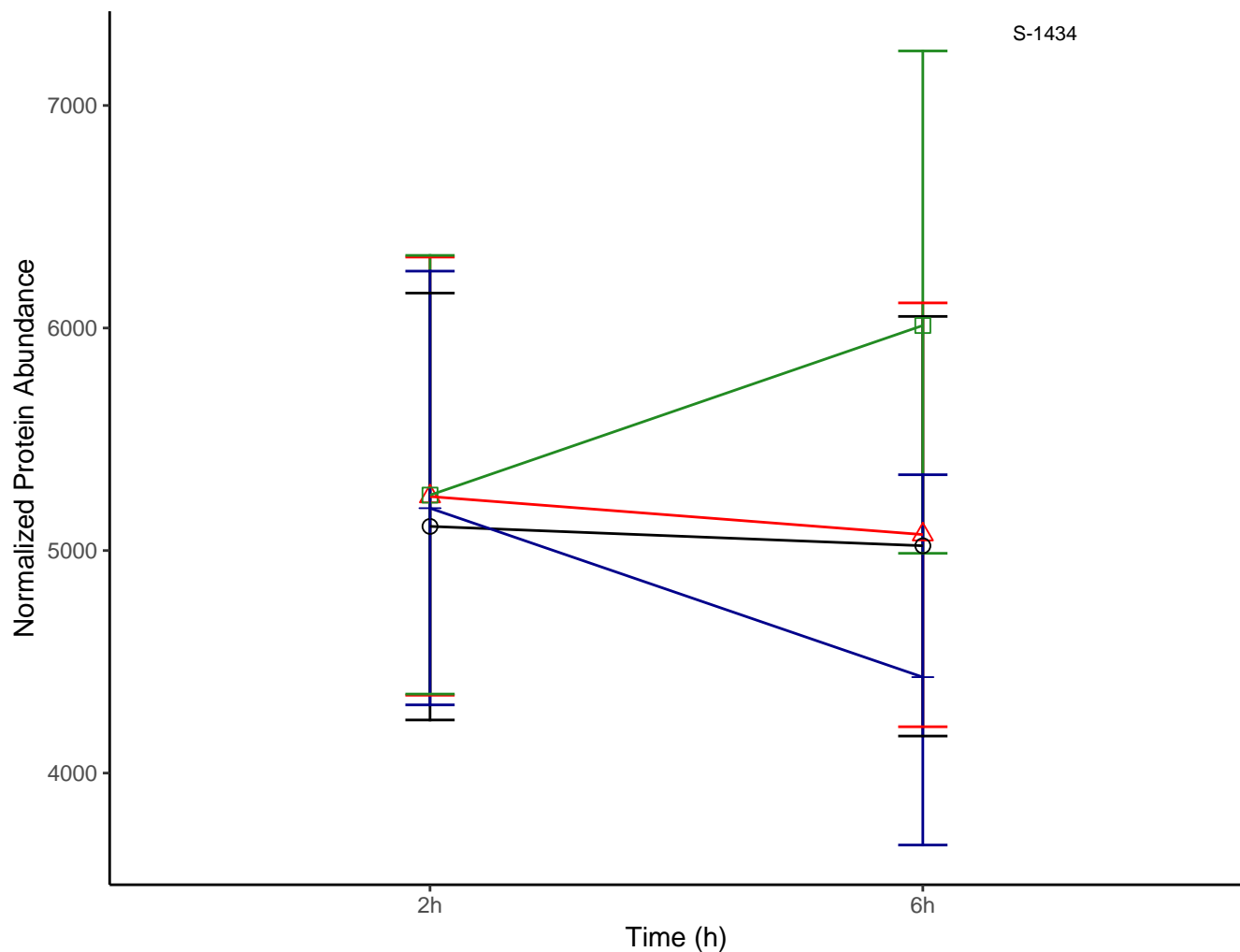
S-1433



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TRMB\_STAAM

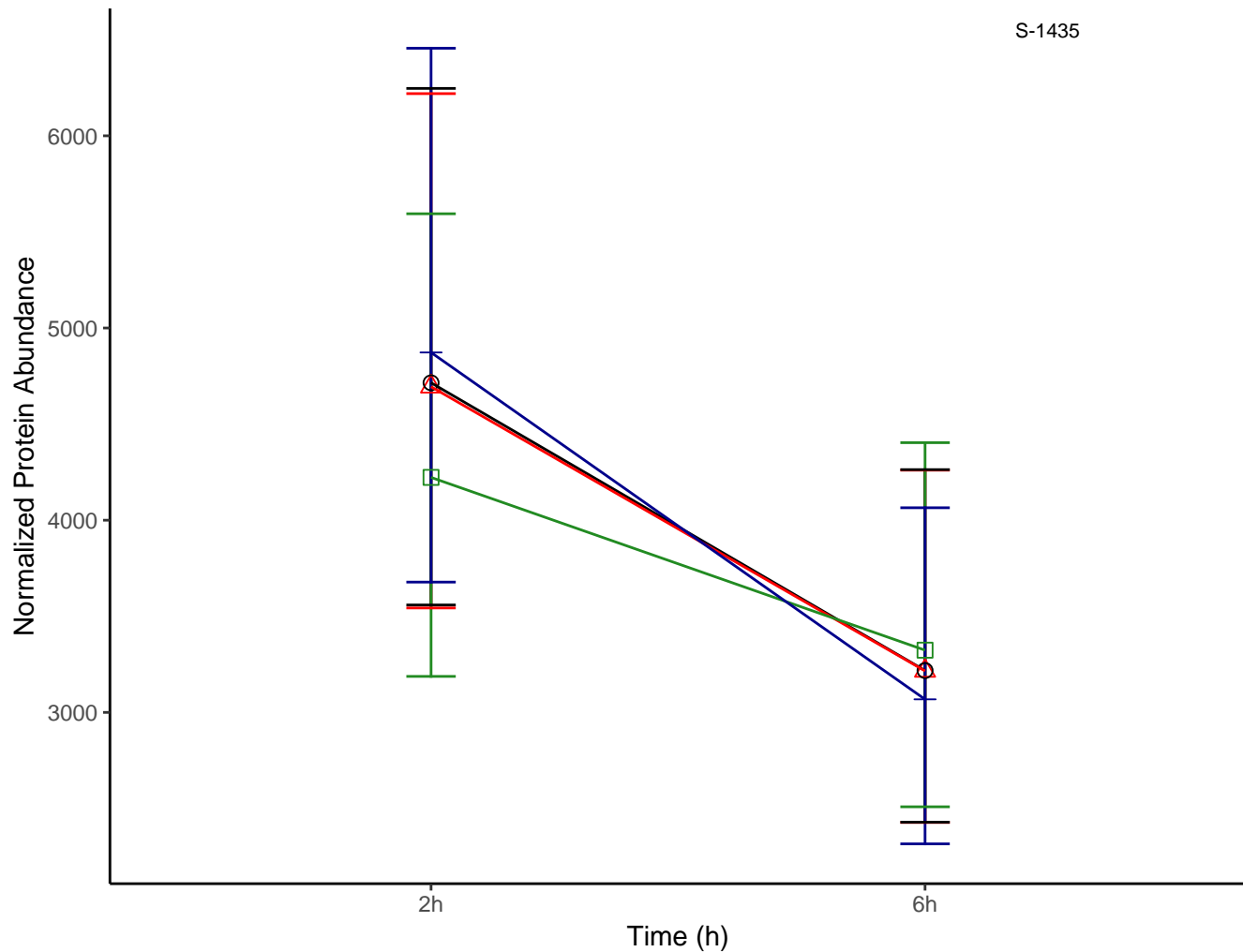
S-1434



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## TRMFO\_STAAM

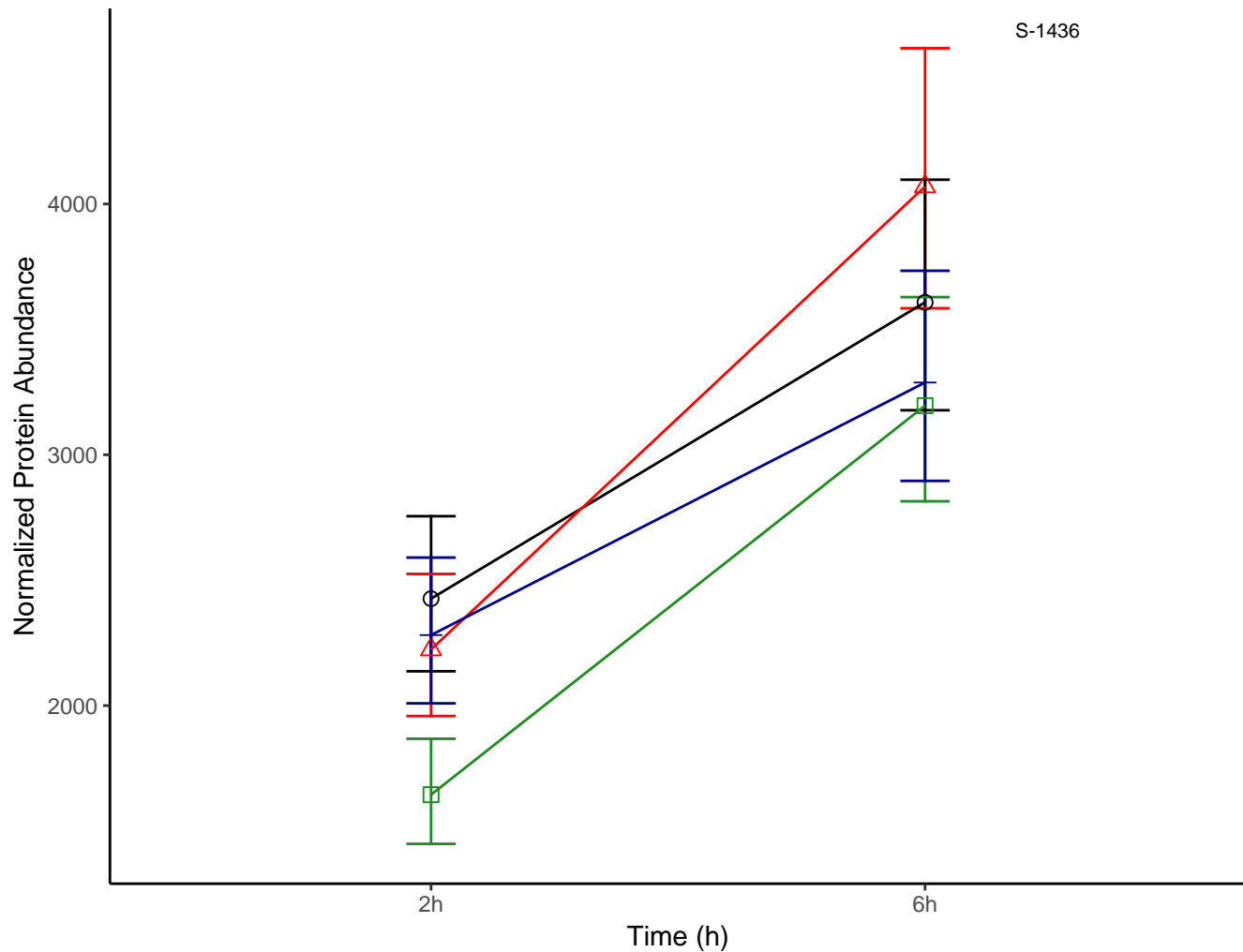
S-1435



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## TRMHL\_STAAM

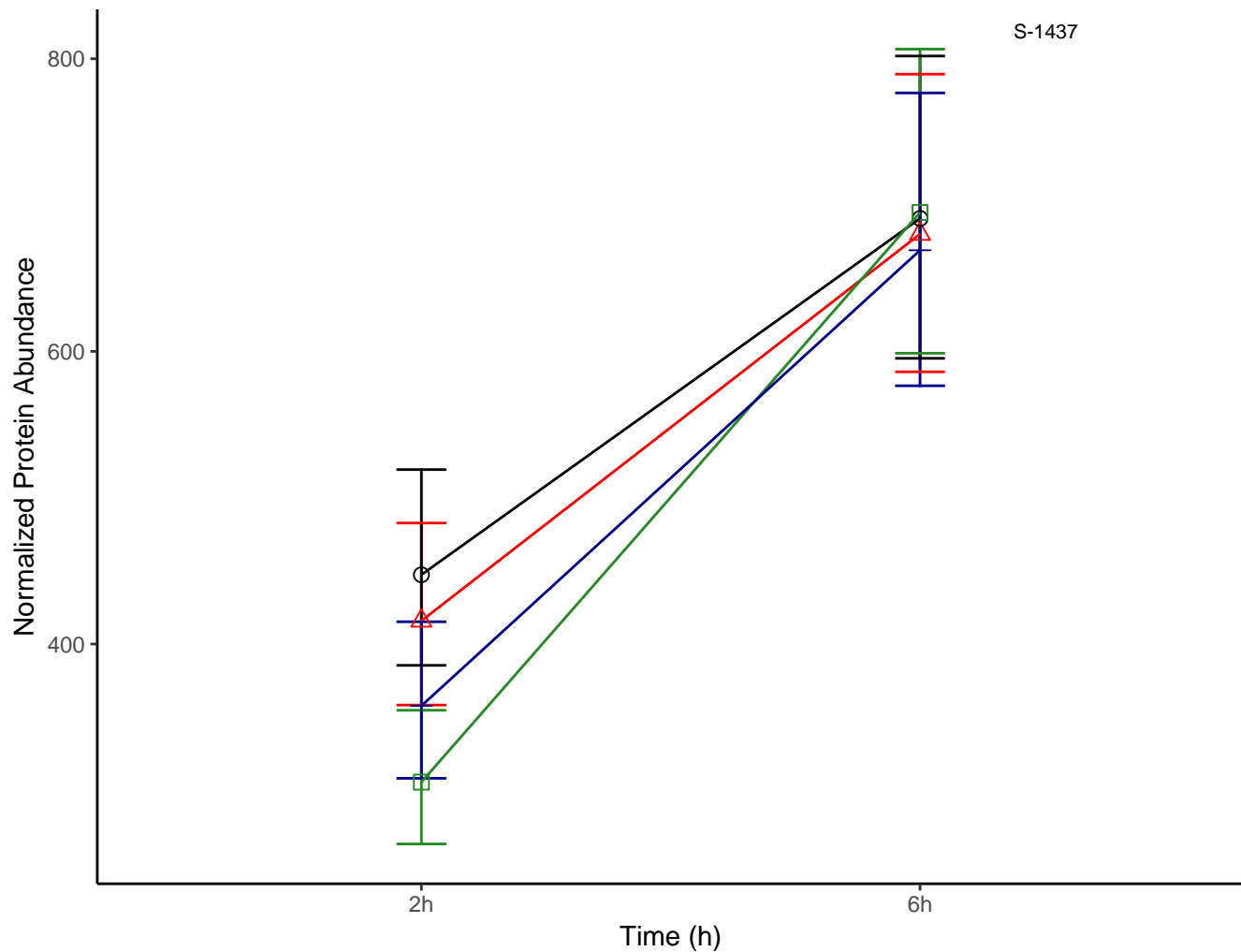
S-1436



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRPA\_STAAM

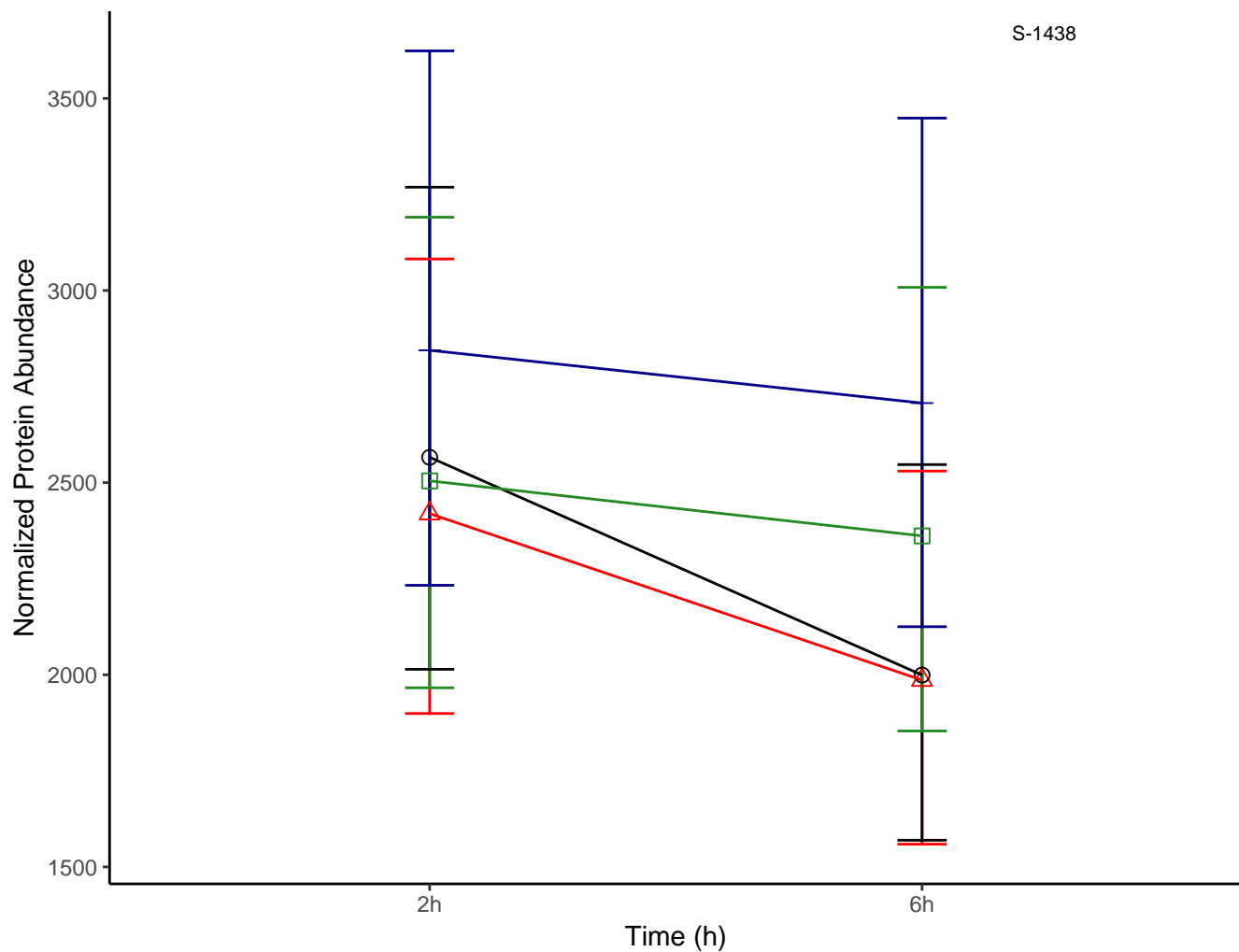
S-1437



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TRPF\_STAAM

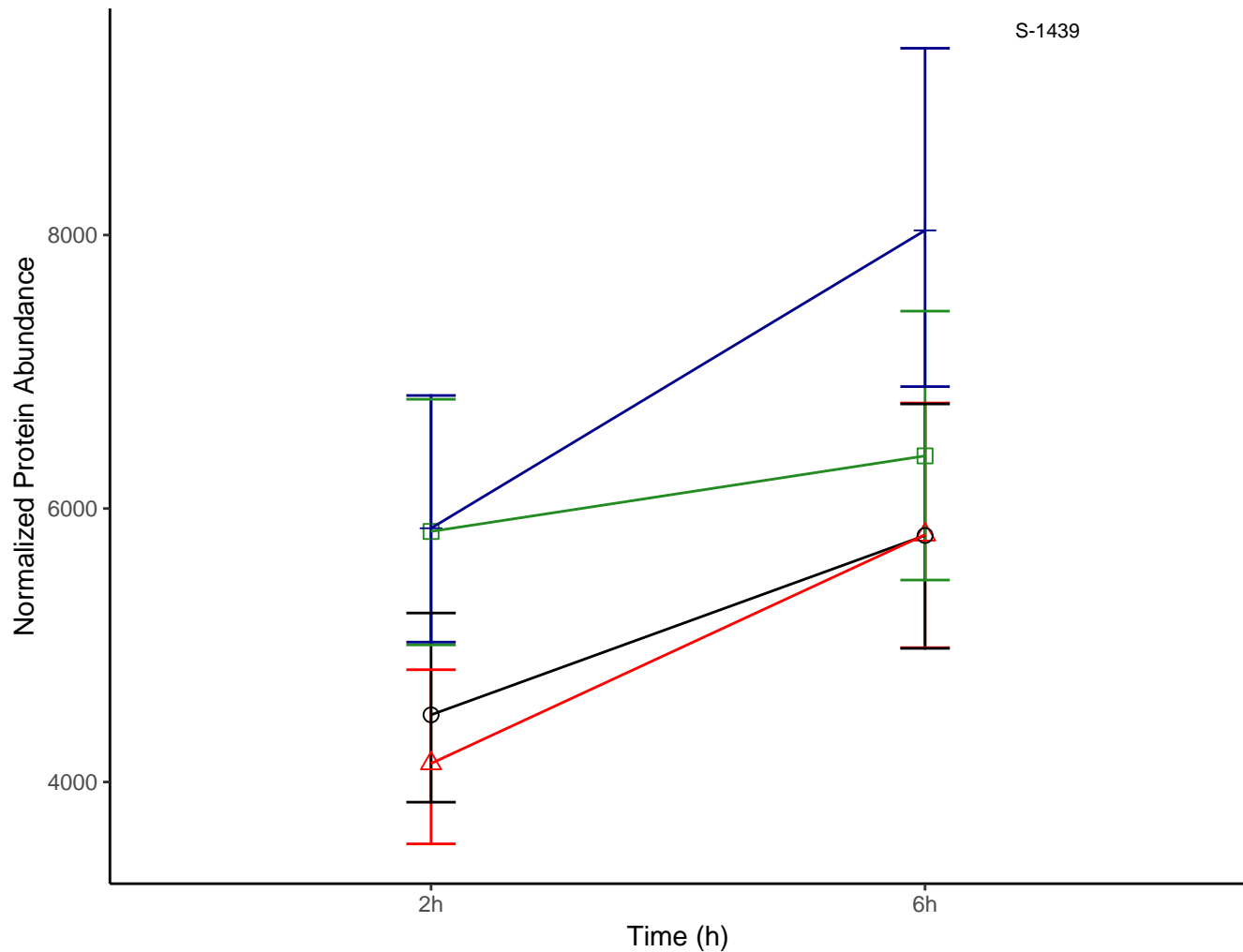
S-1438



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TRUB\_STAAM

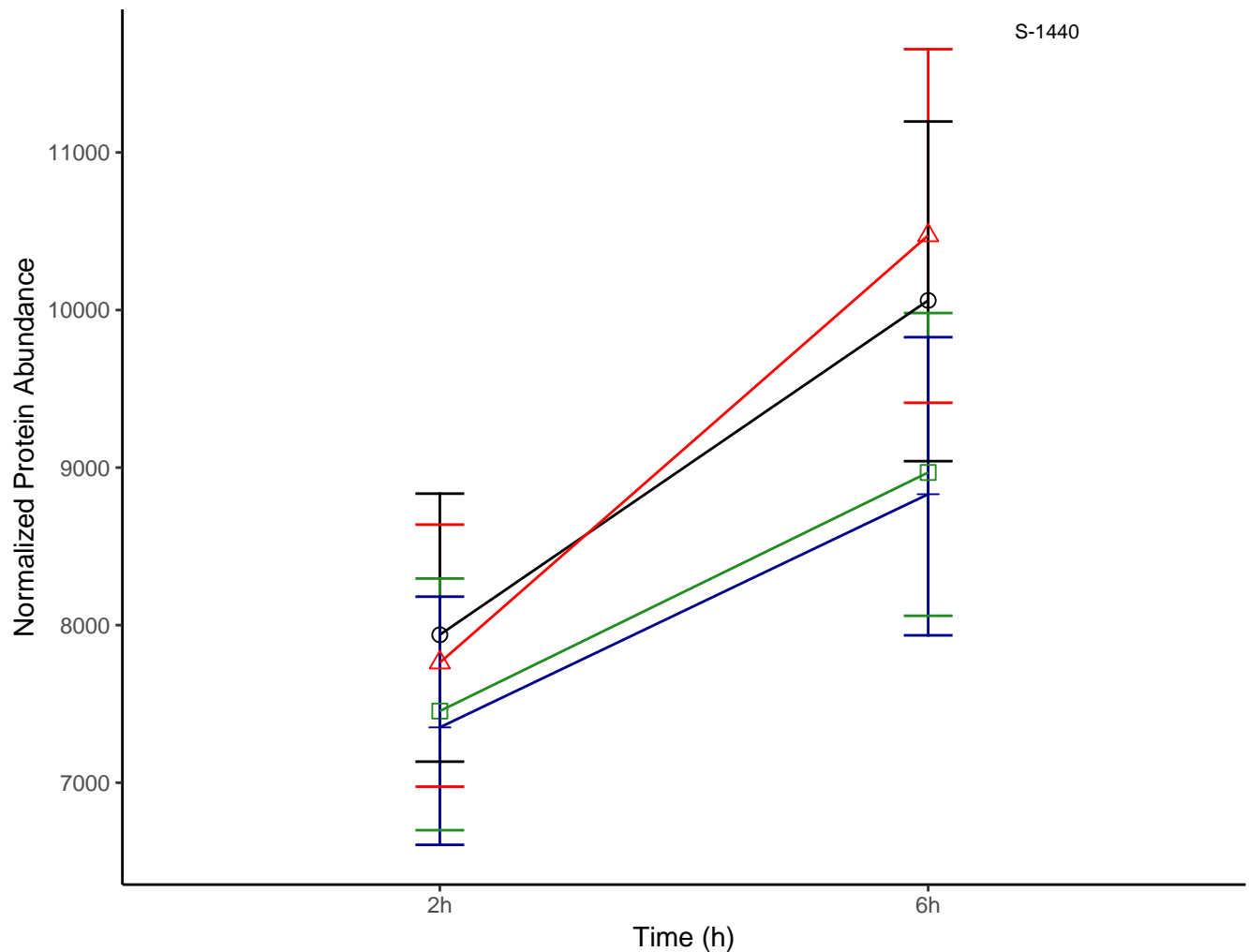
S-1439



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# TRXB\_STAAM

S-1440

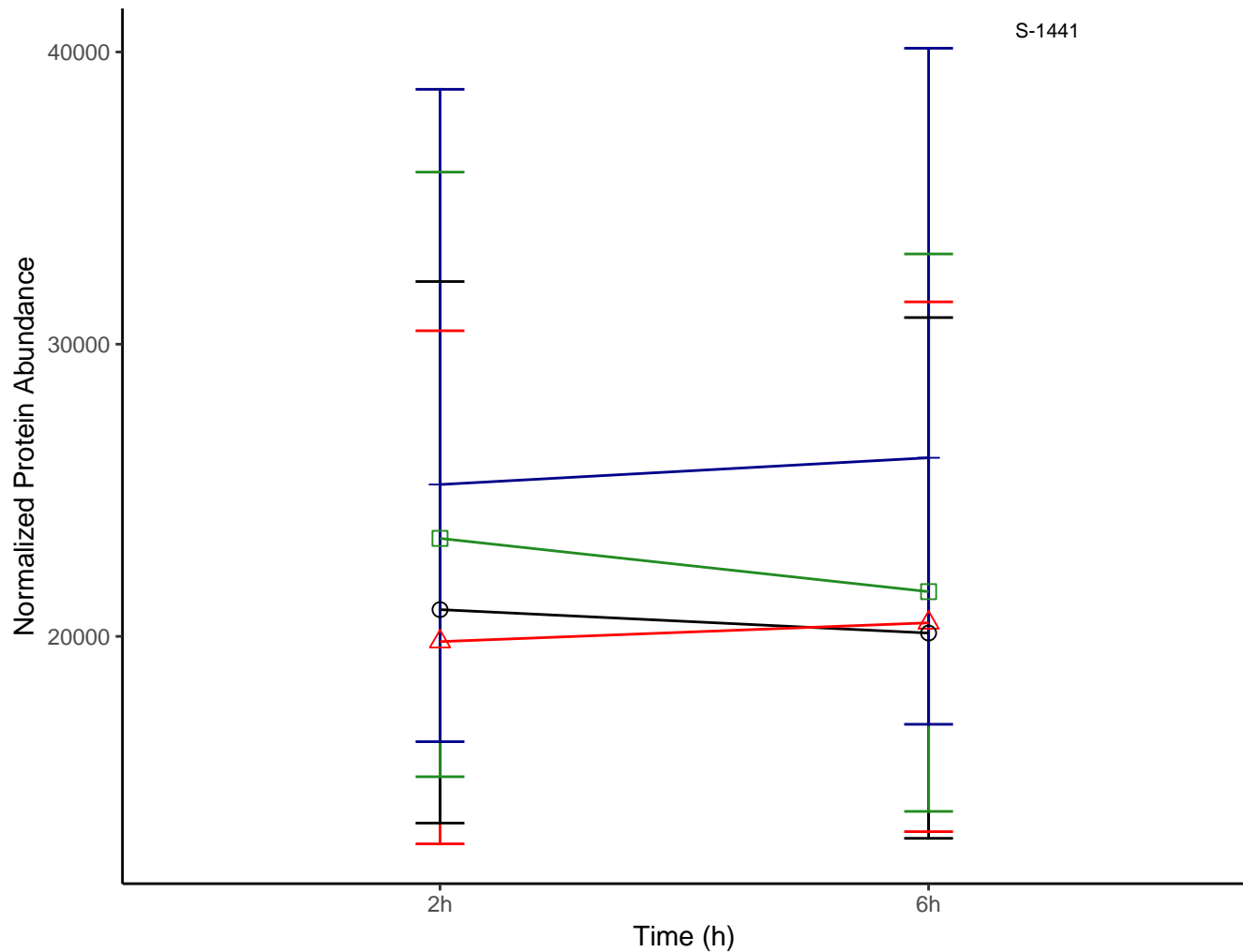


- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA



# TSAD\_STAAM

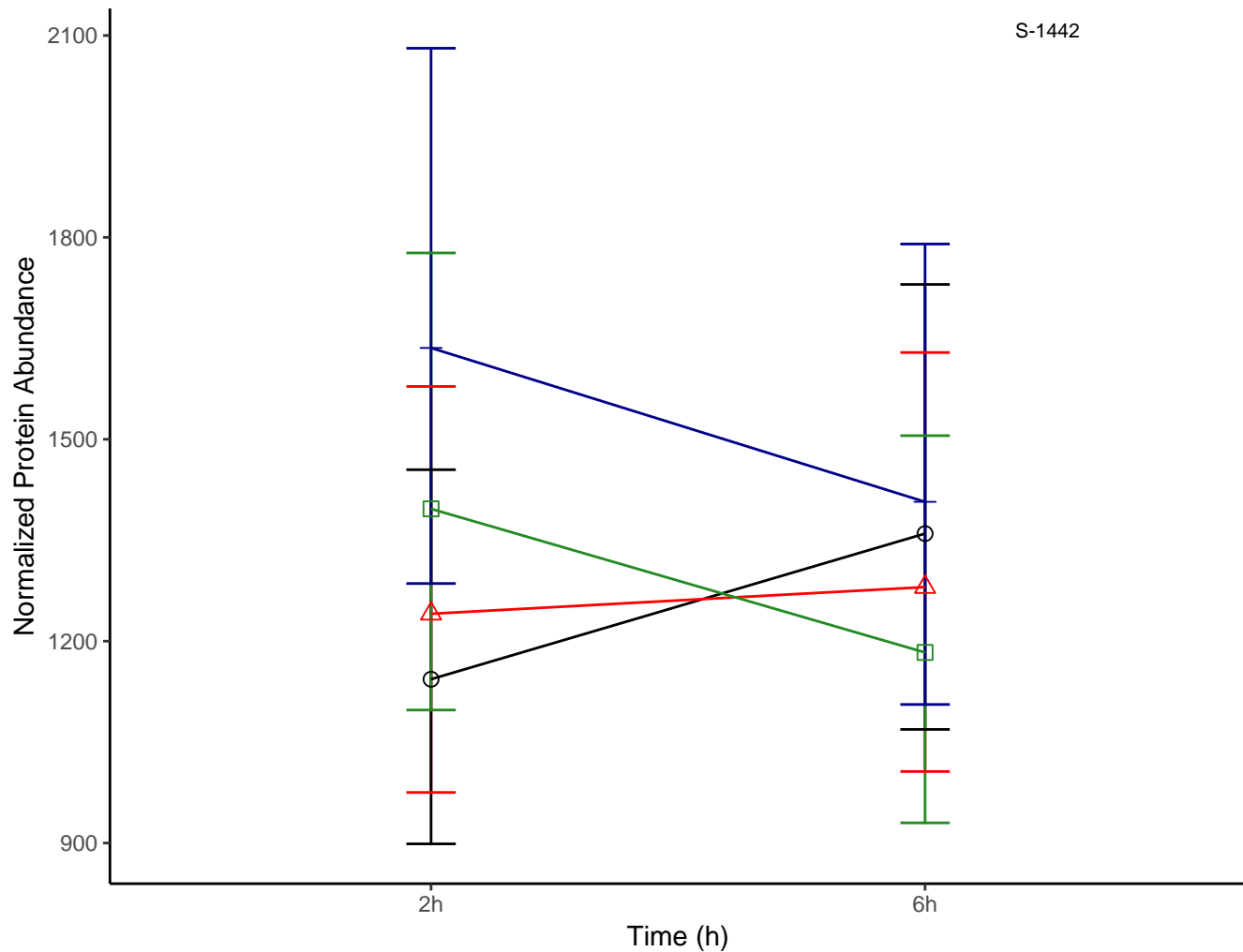
S-1441



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TYRA\_STAAM

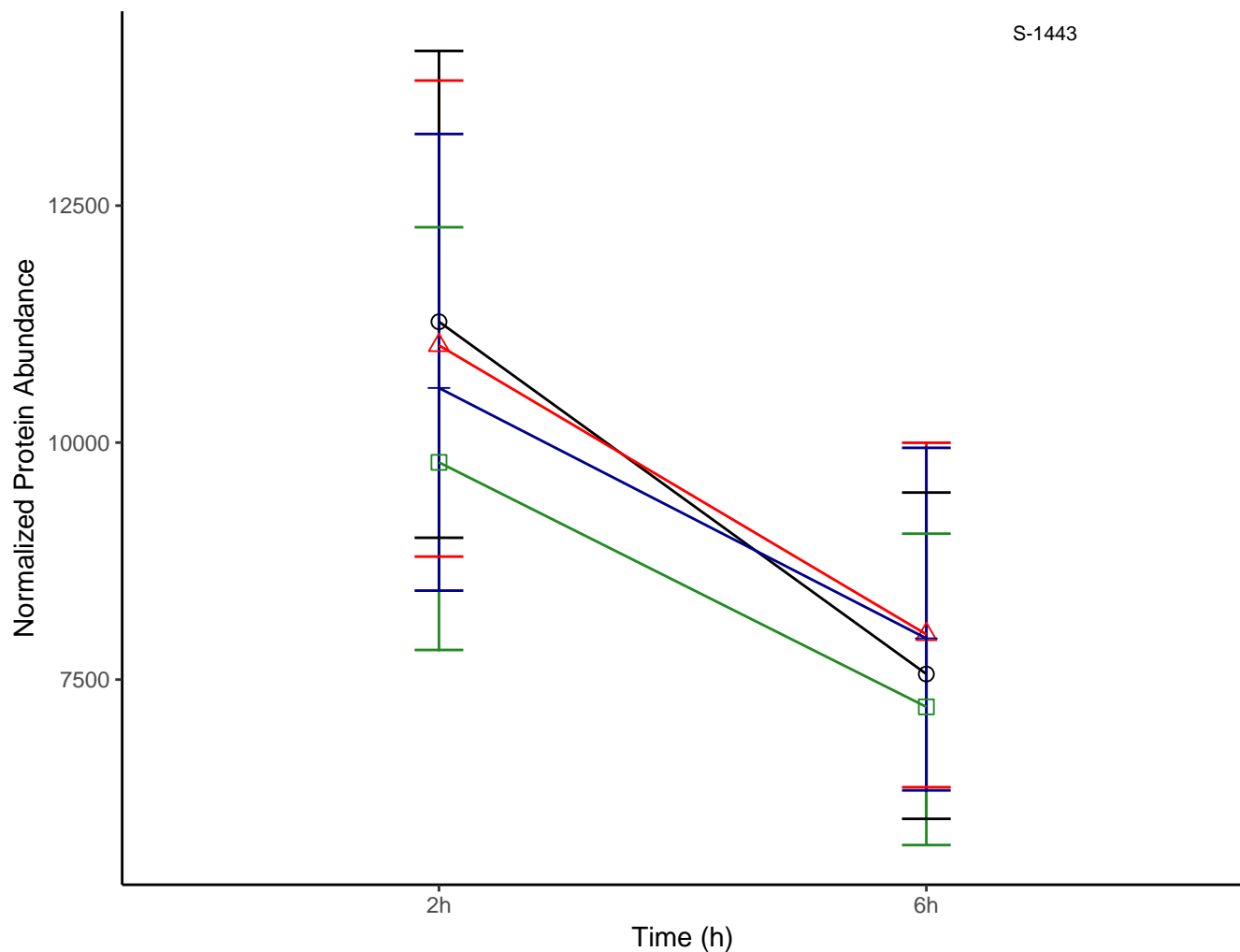
S-1442



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TYSY\_STAAM

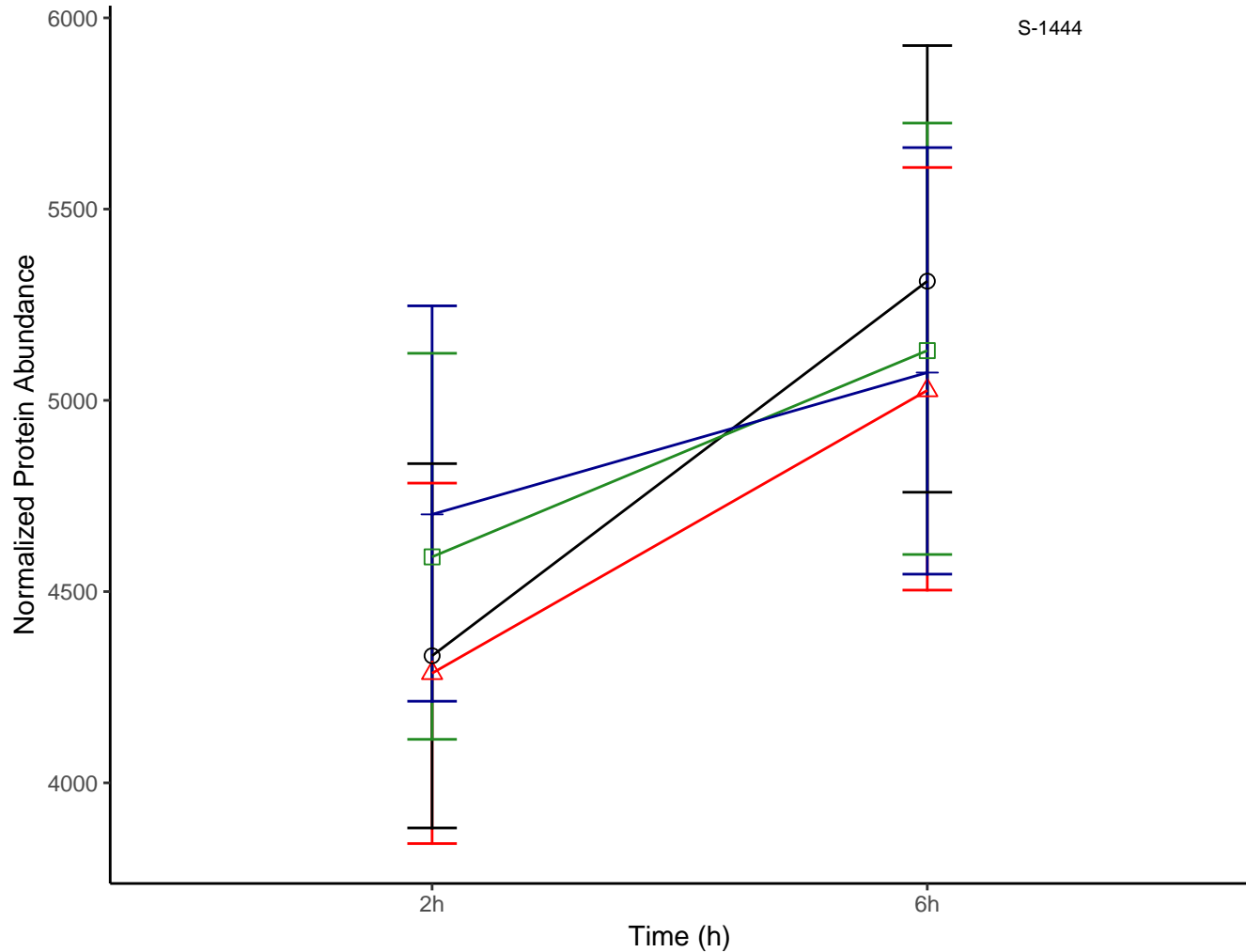
S-1443



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UNG\_STAAM

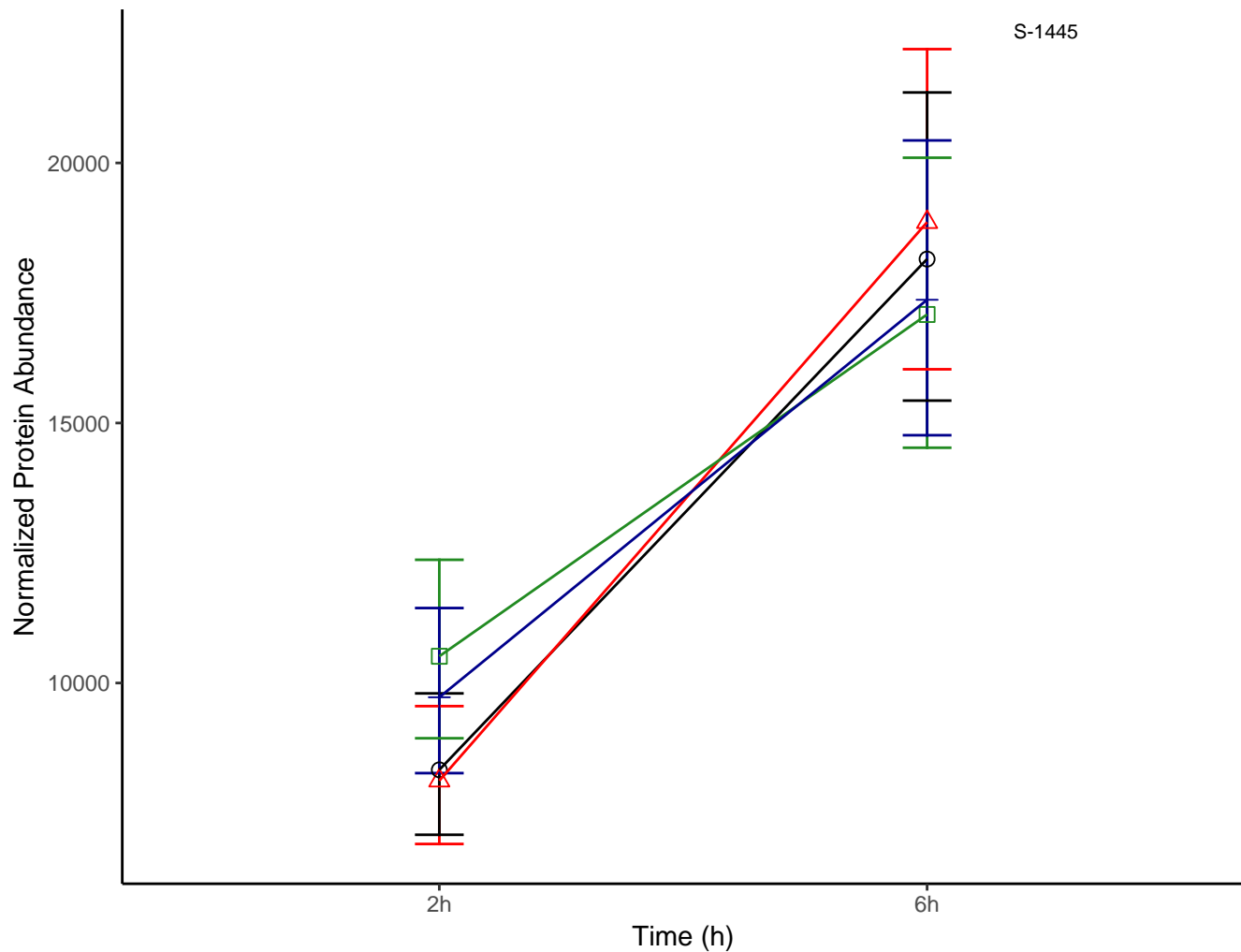
S-1444



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UP355\_STAAM

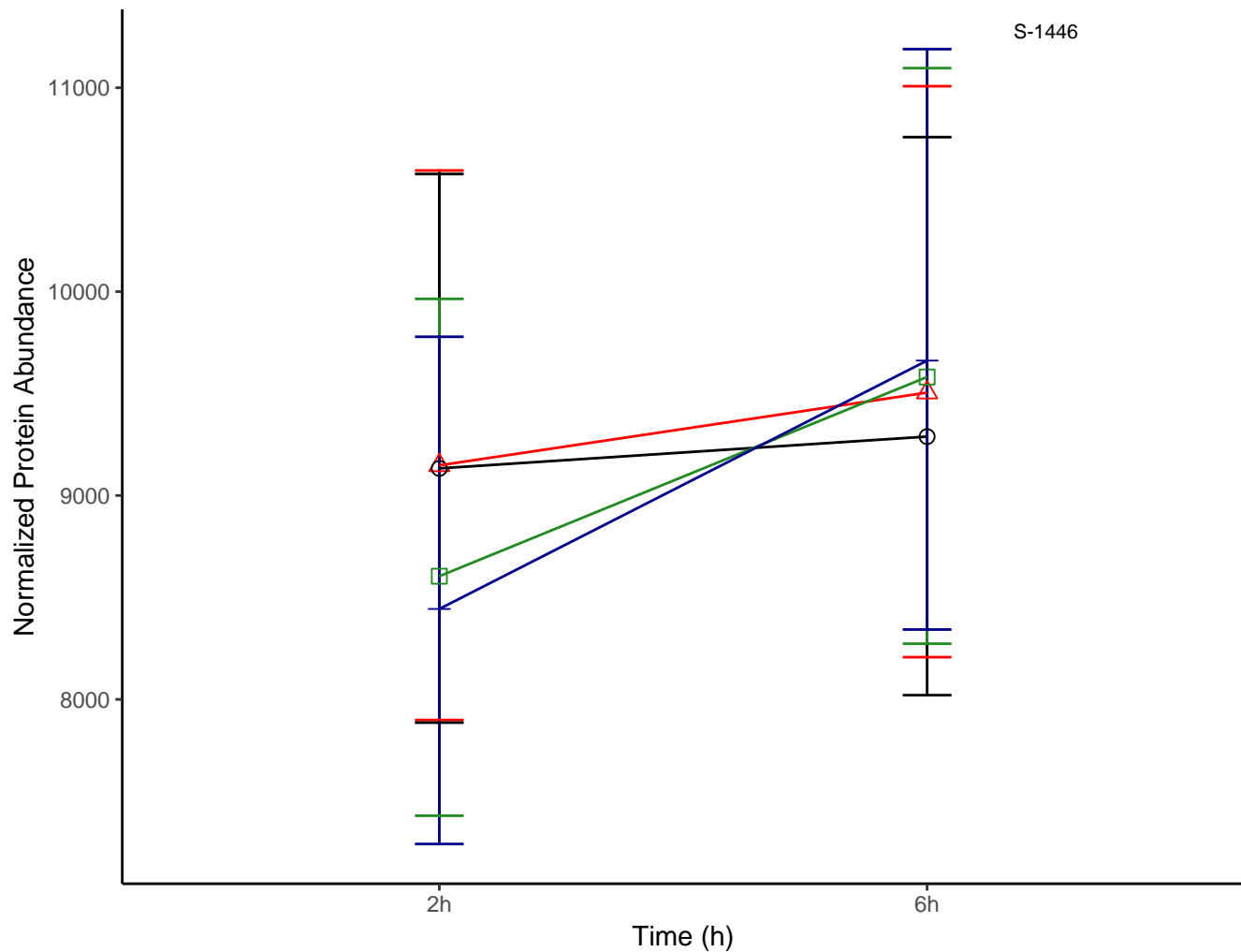
S-1445



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# UPP\_STAAM

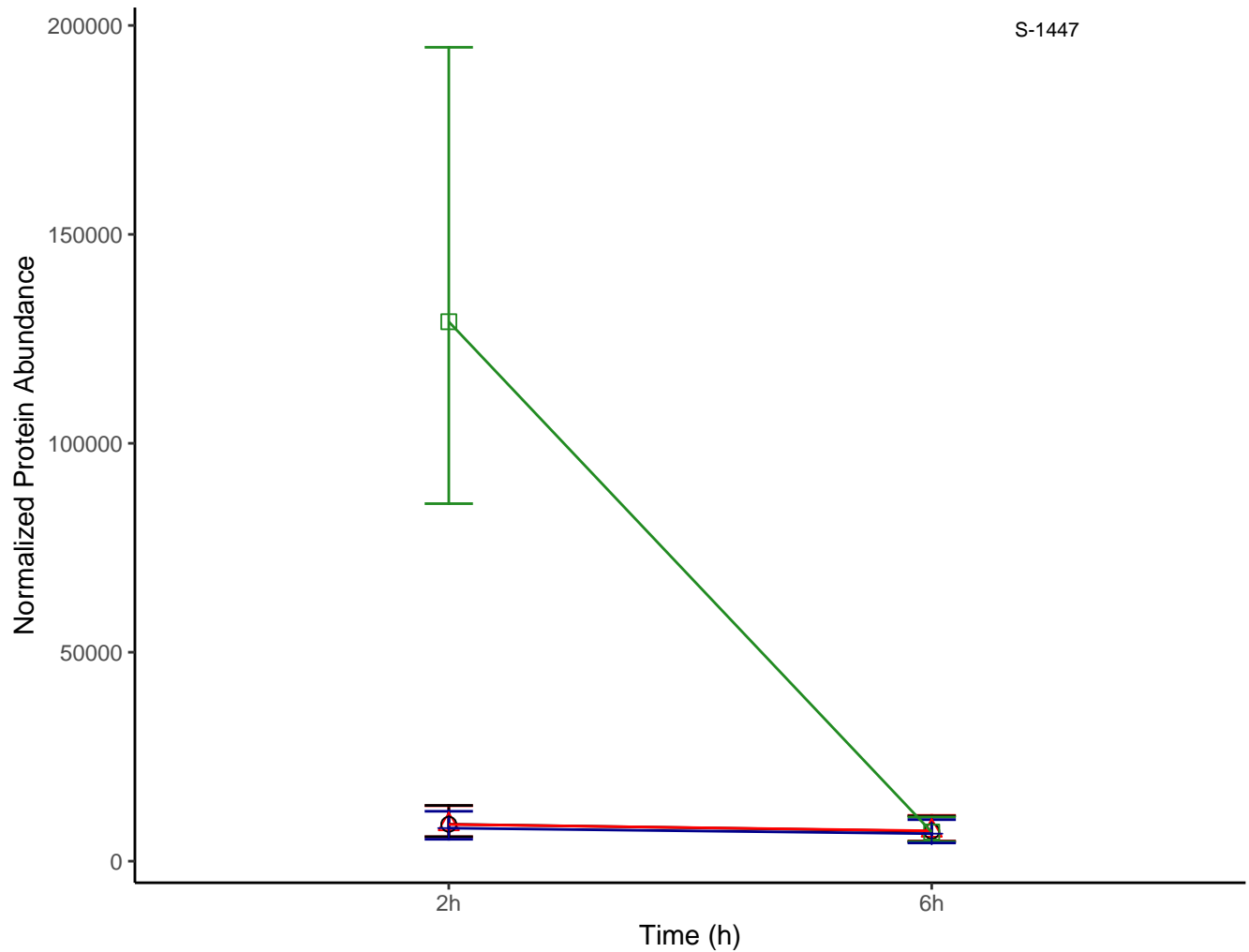
S-1446



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UREE\_STAAM

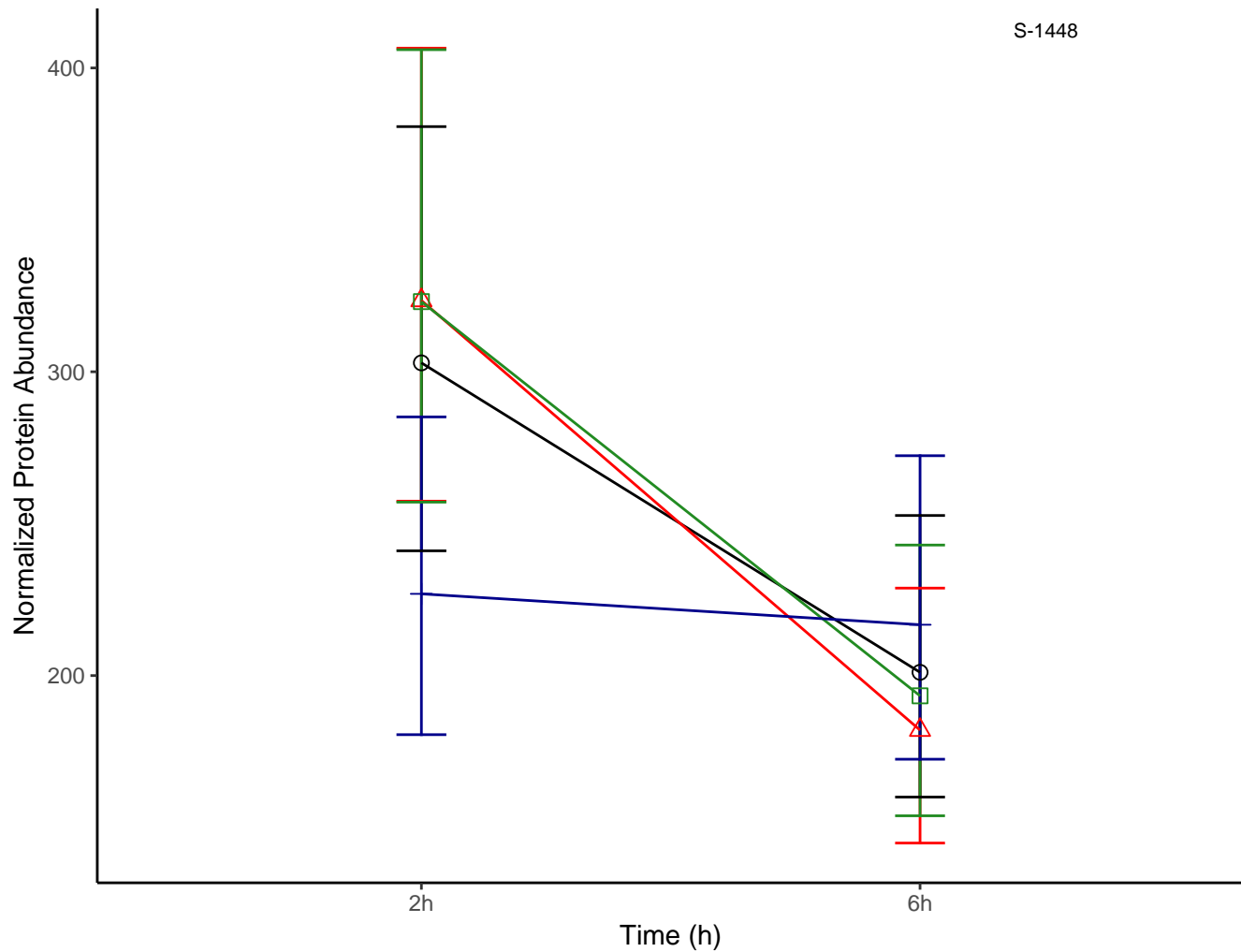
S-1447



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# UREG\_STAAM

S-1448

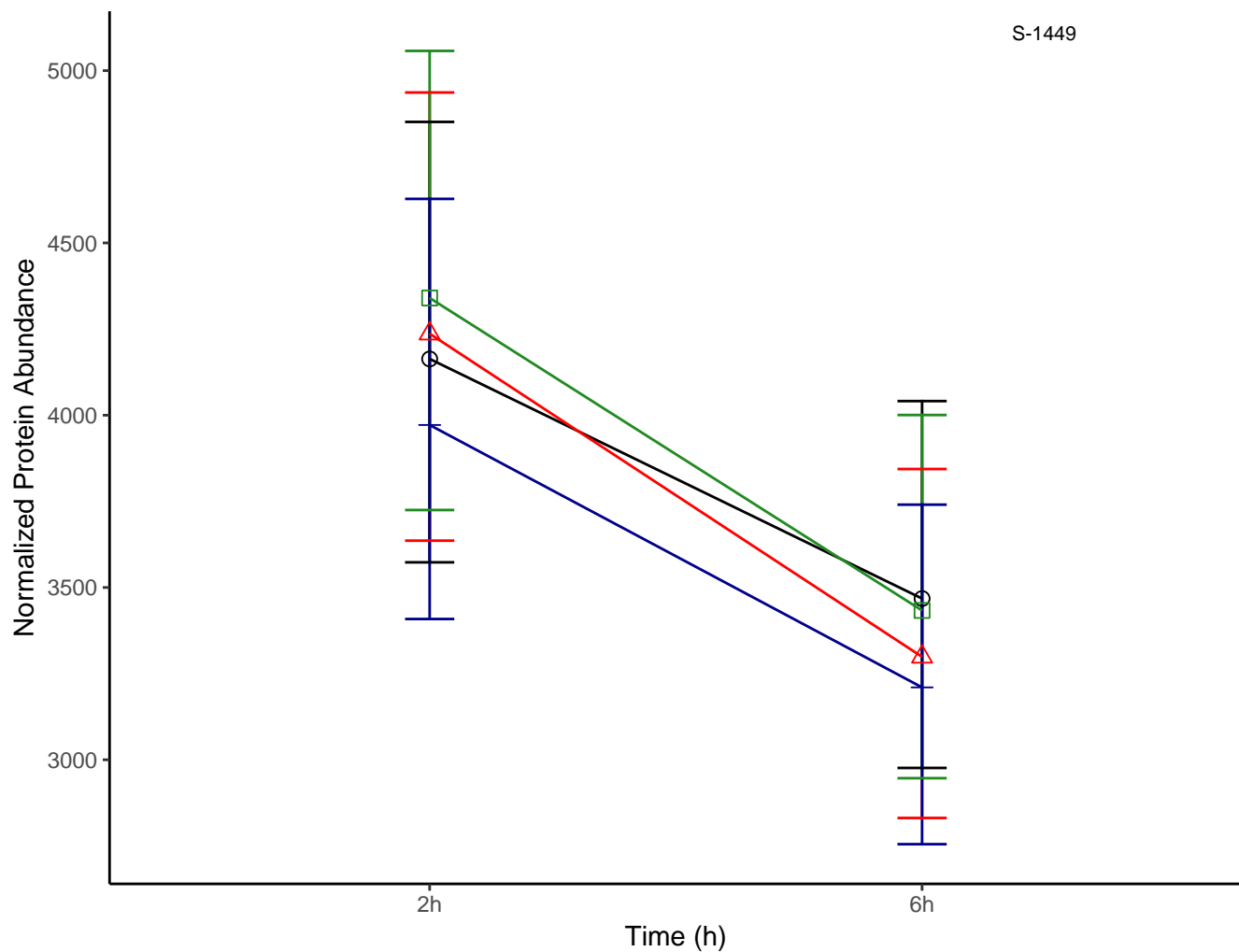


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# URK\_STAAM

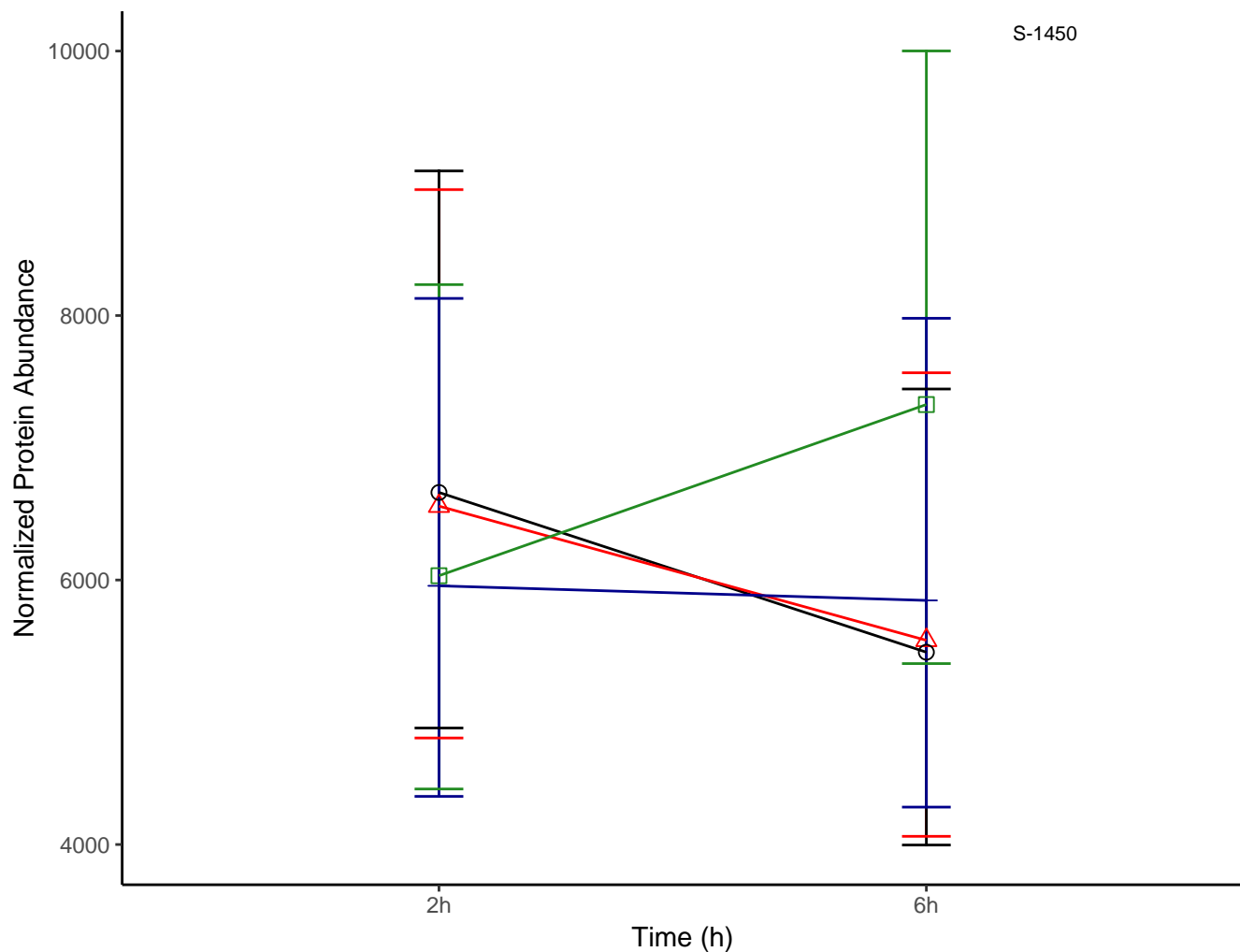
S-1449



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# URTF\_STAAM

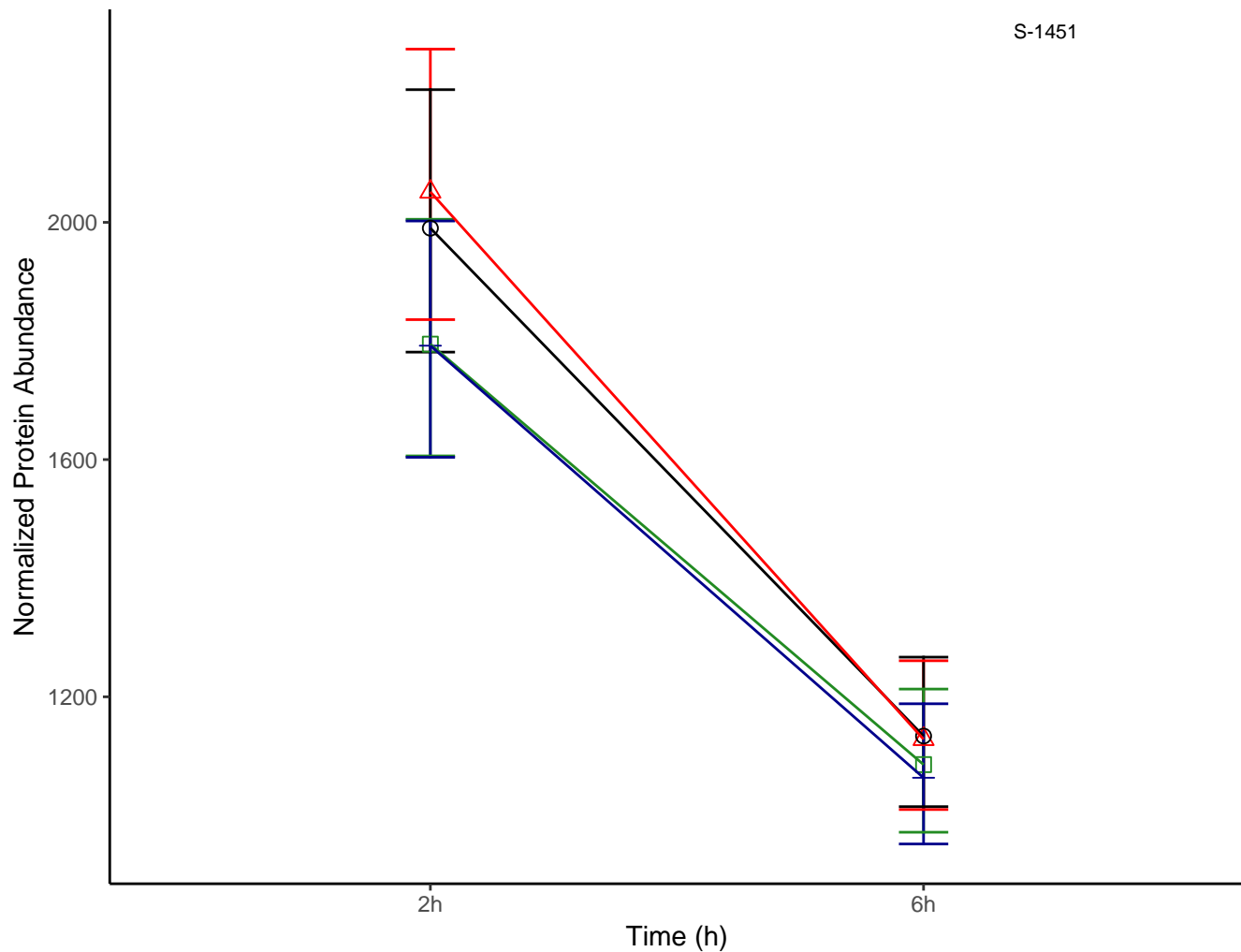
S-1450



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# UVRA\_STAAM

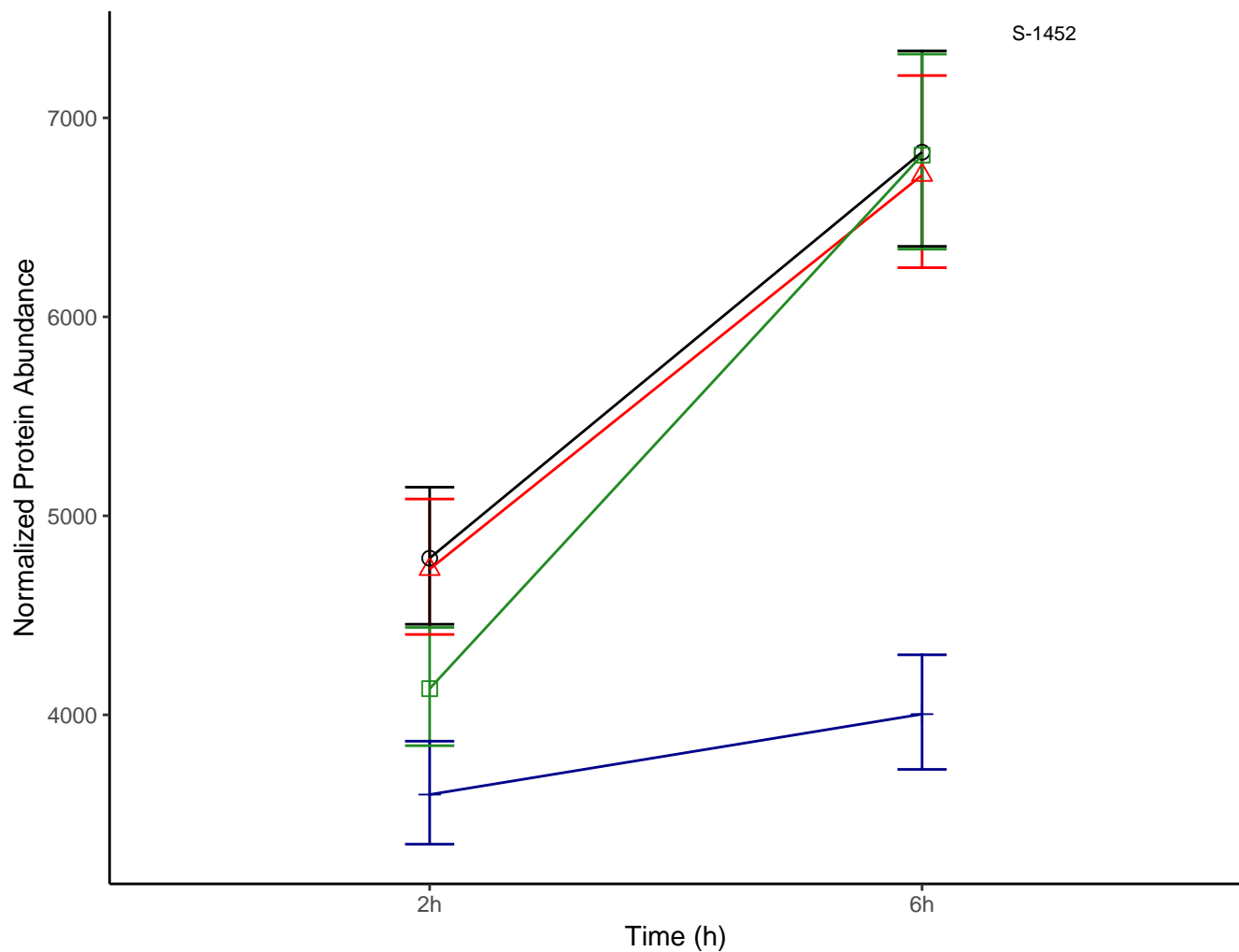
S-1451



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# VRAC\_STAAM

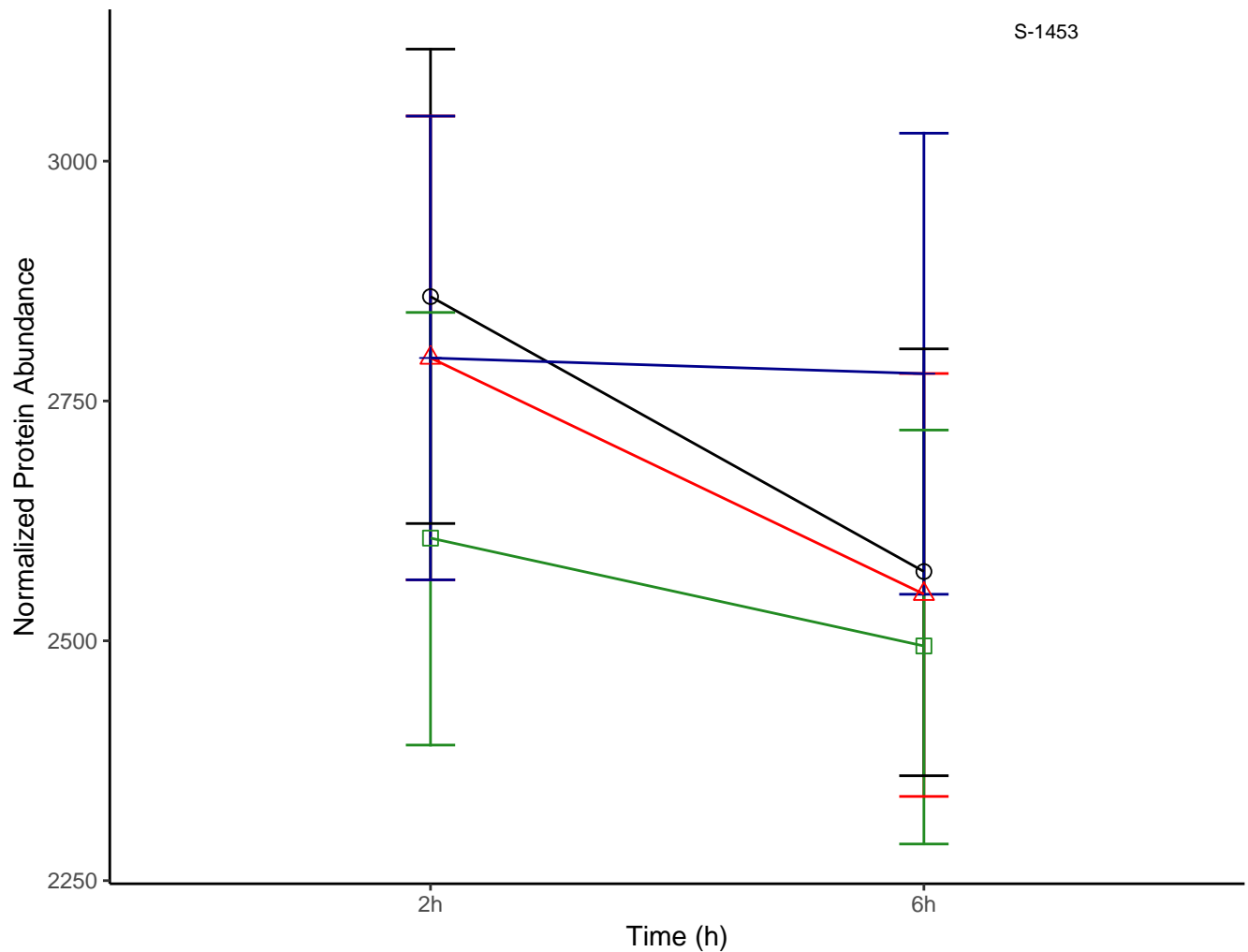
S-1452



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# VRAR\_STAAM

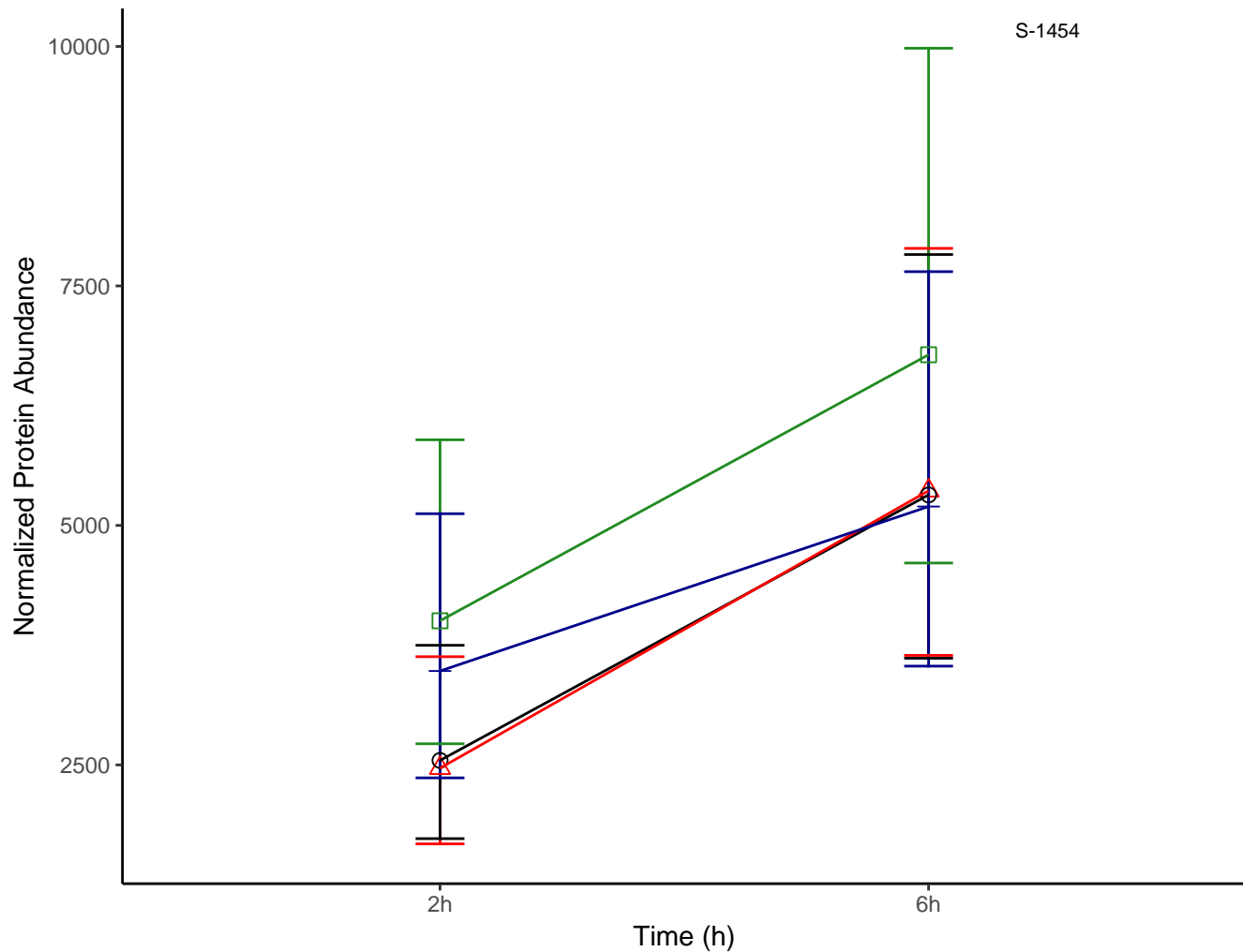
S-1453



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# WALK\_STAAM

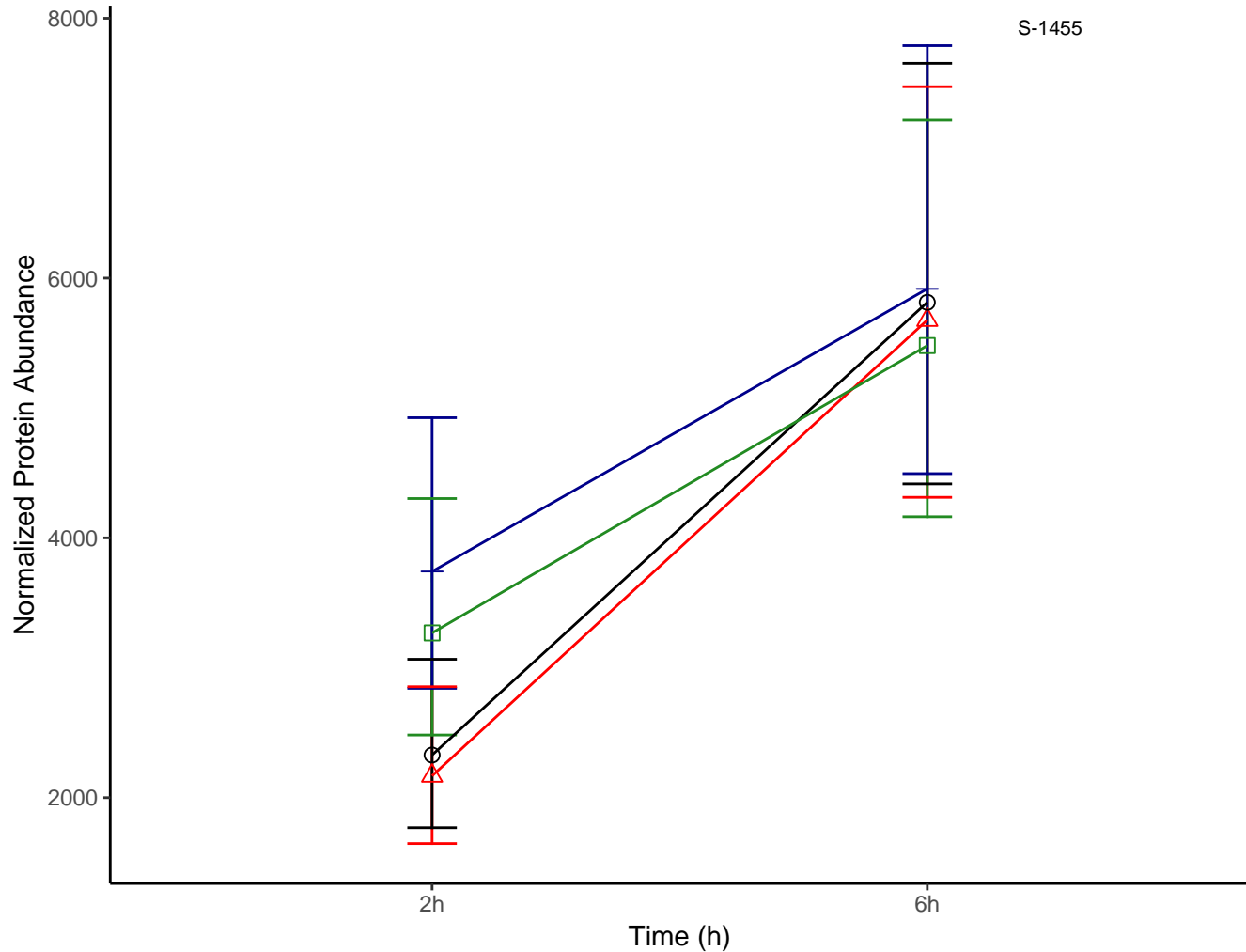
S-1454



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# WALR\_STAAM

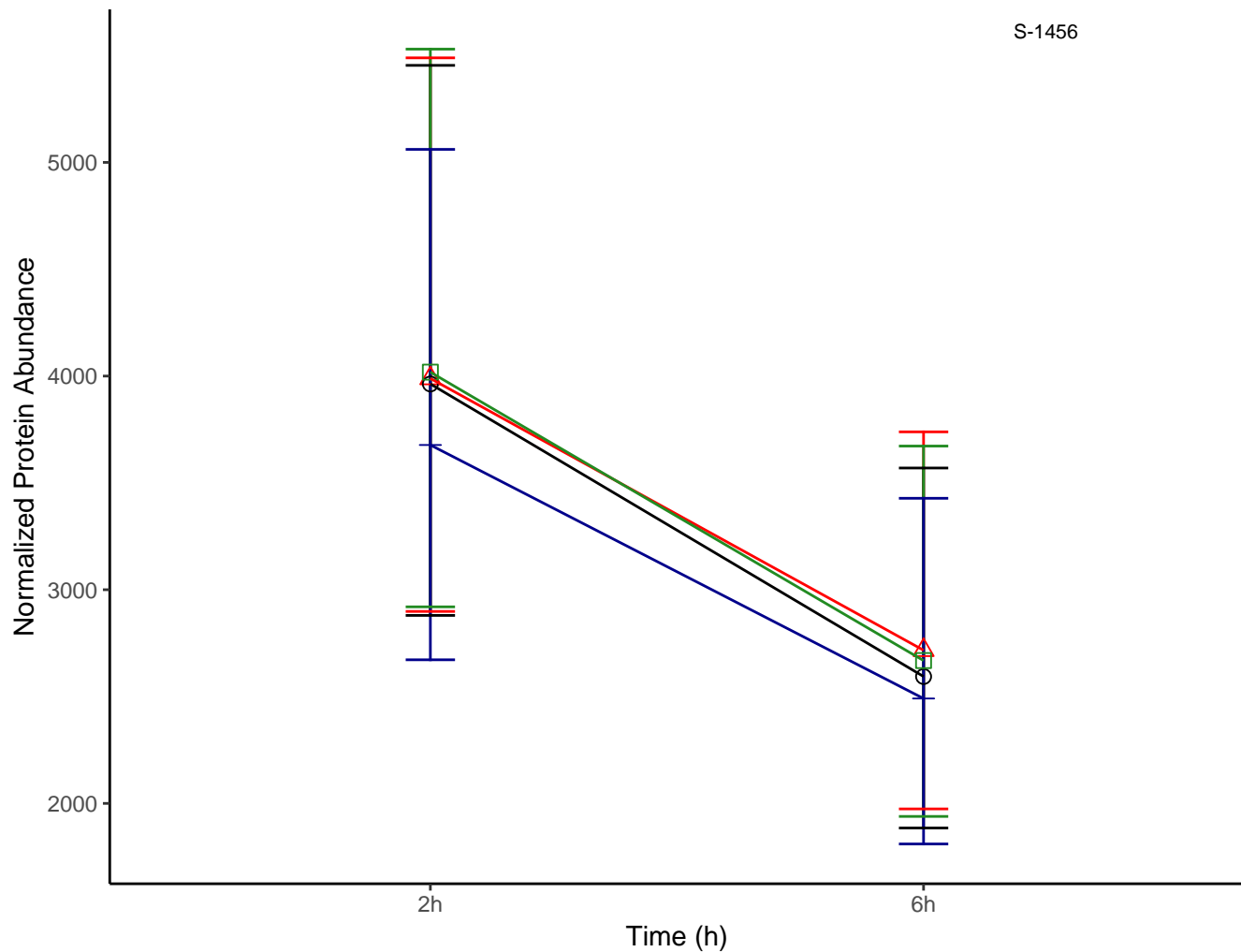
S-1455



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# XERD\_STAAM

S-1456

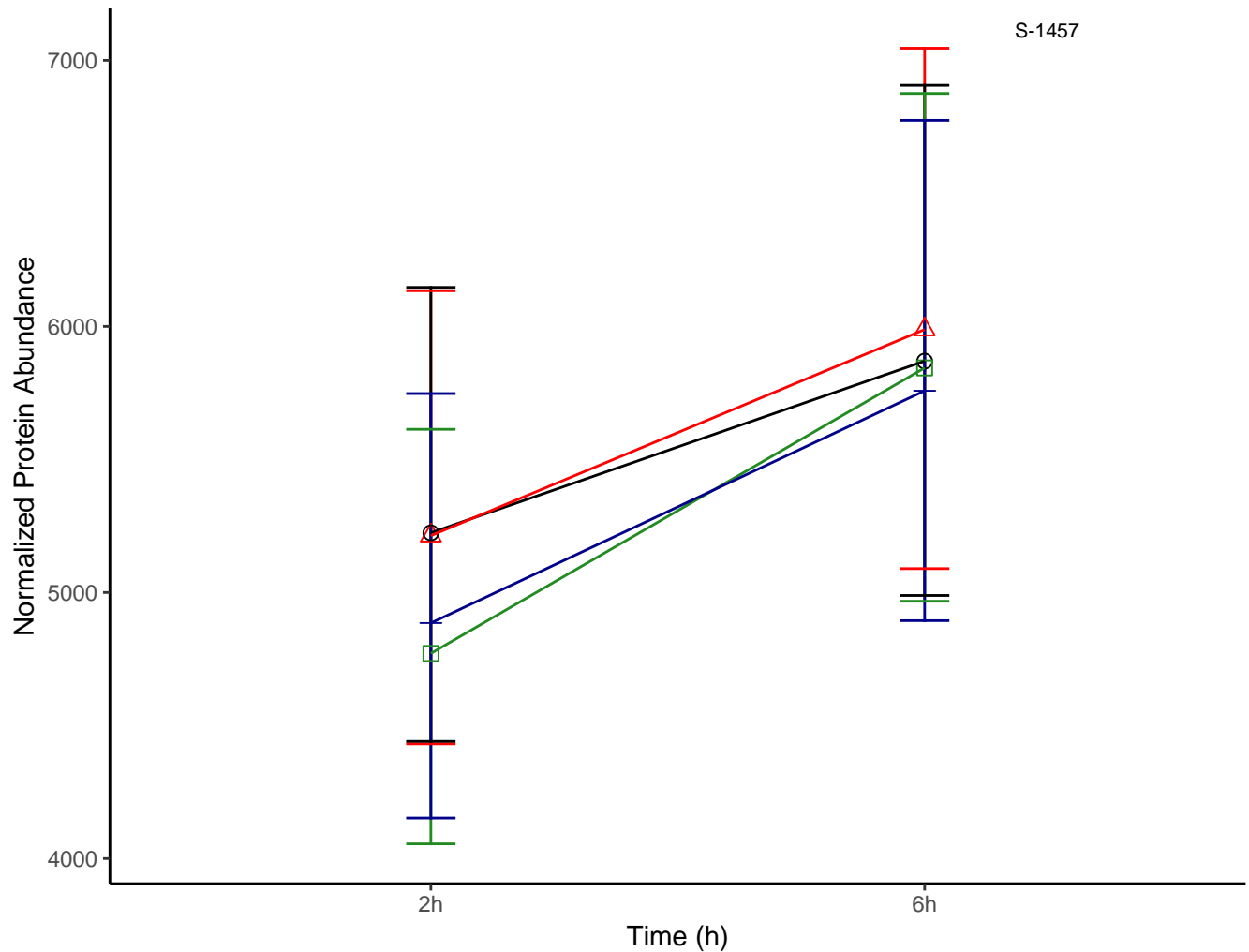


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# XPT\_STAAM

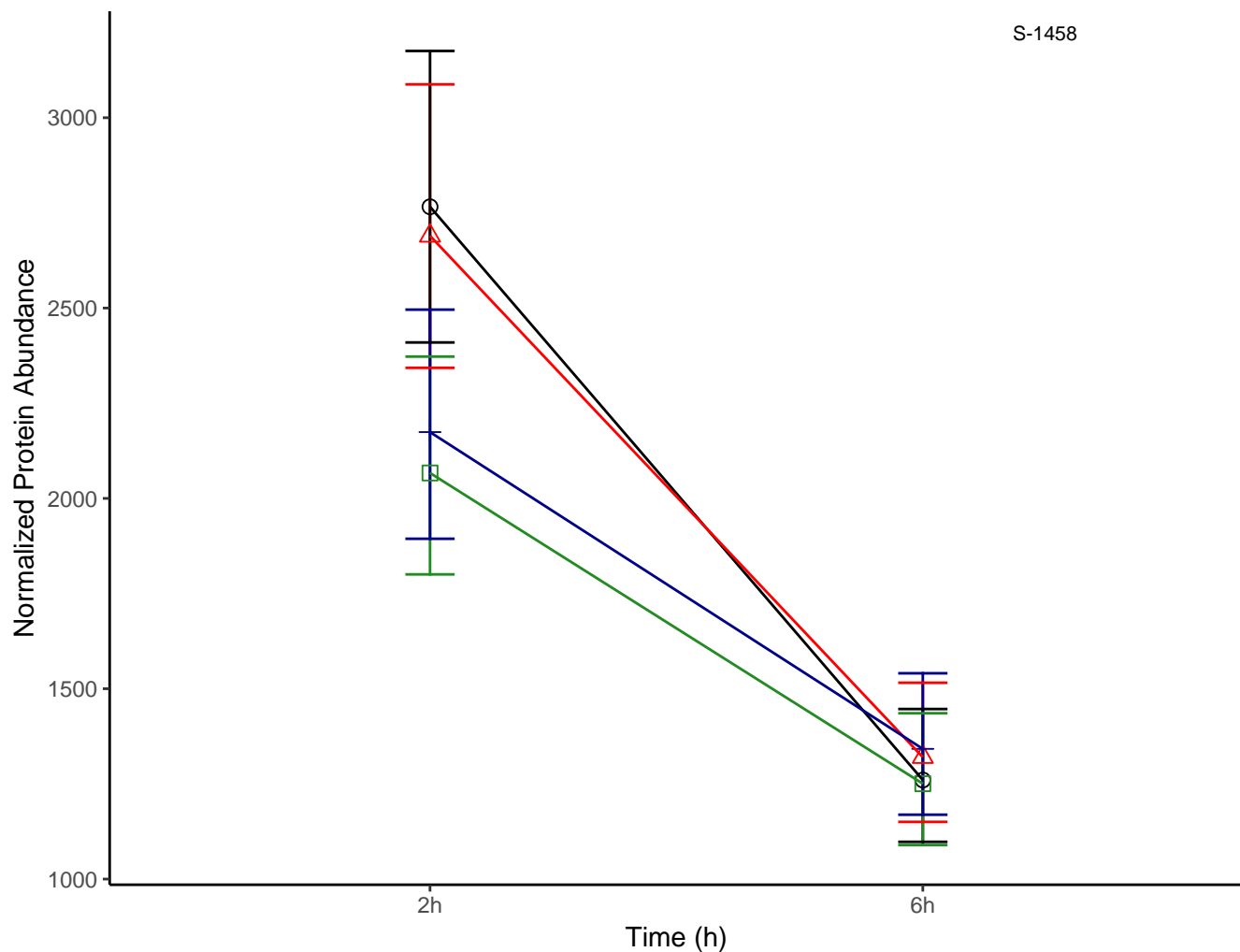
S-1457



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y098\_STAAM

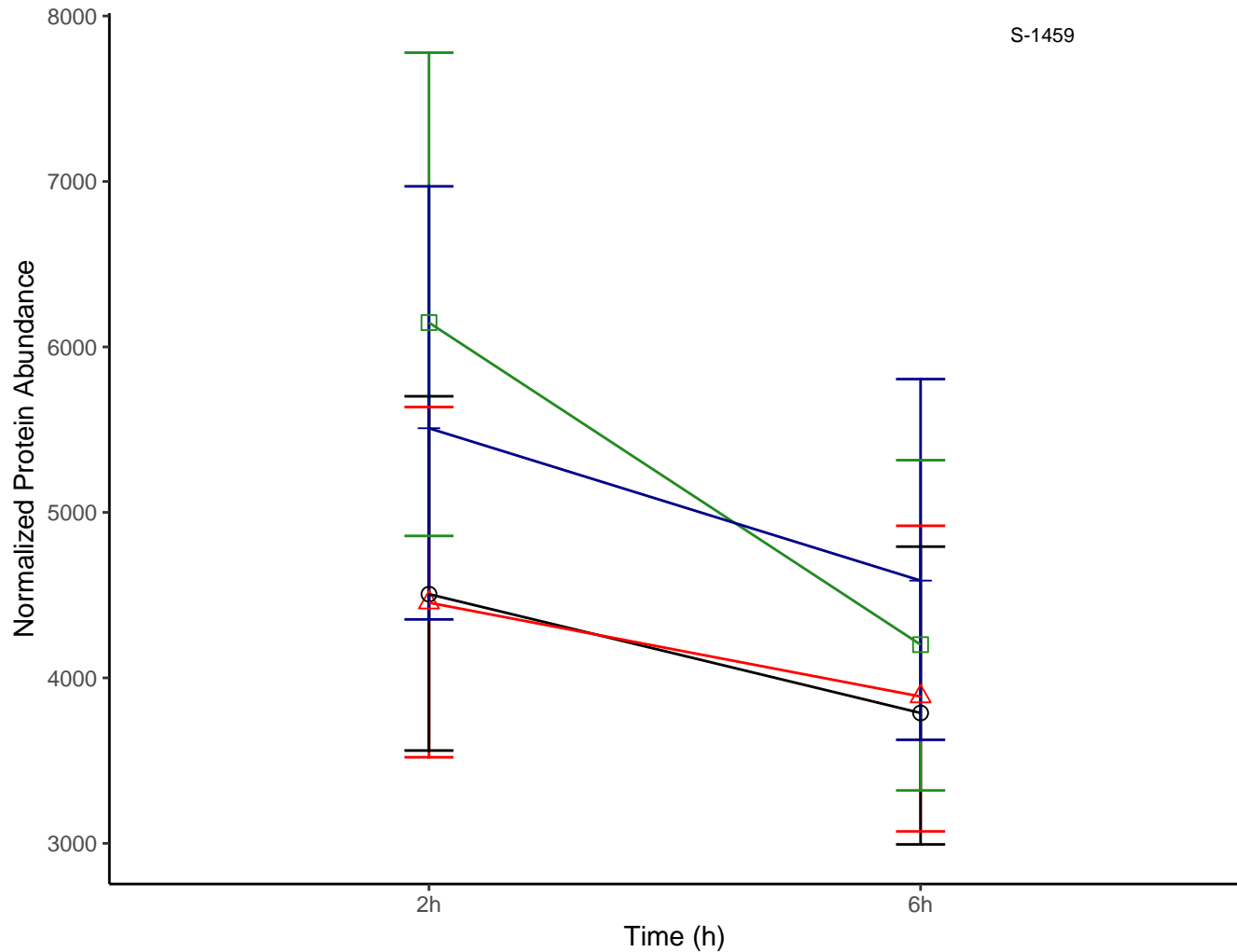
S-1458



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y099\_STAAM

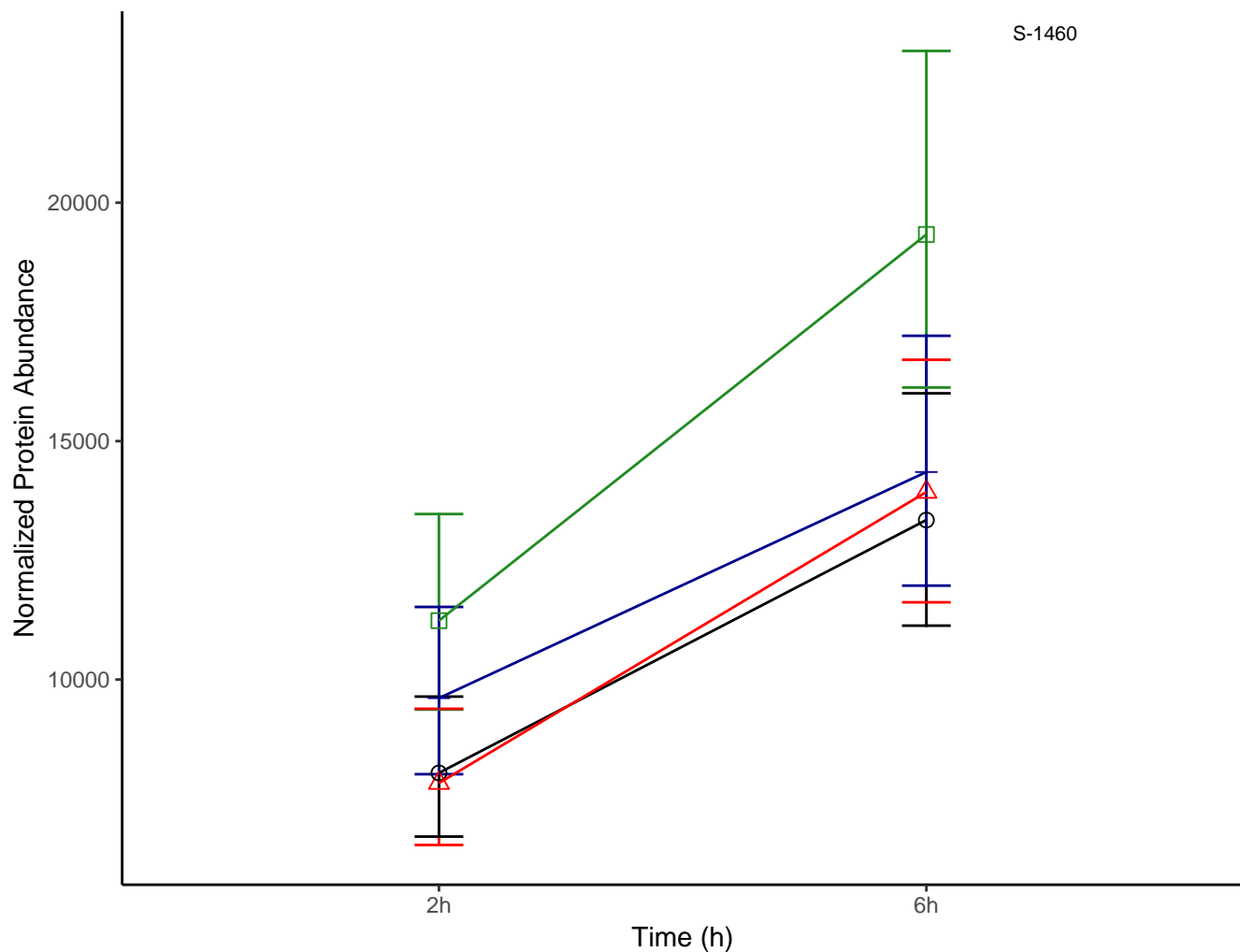
S-1459



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1015\_STAAM

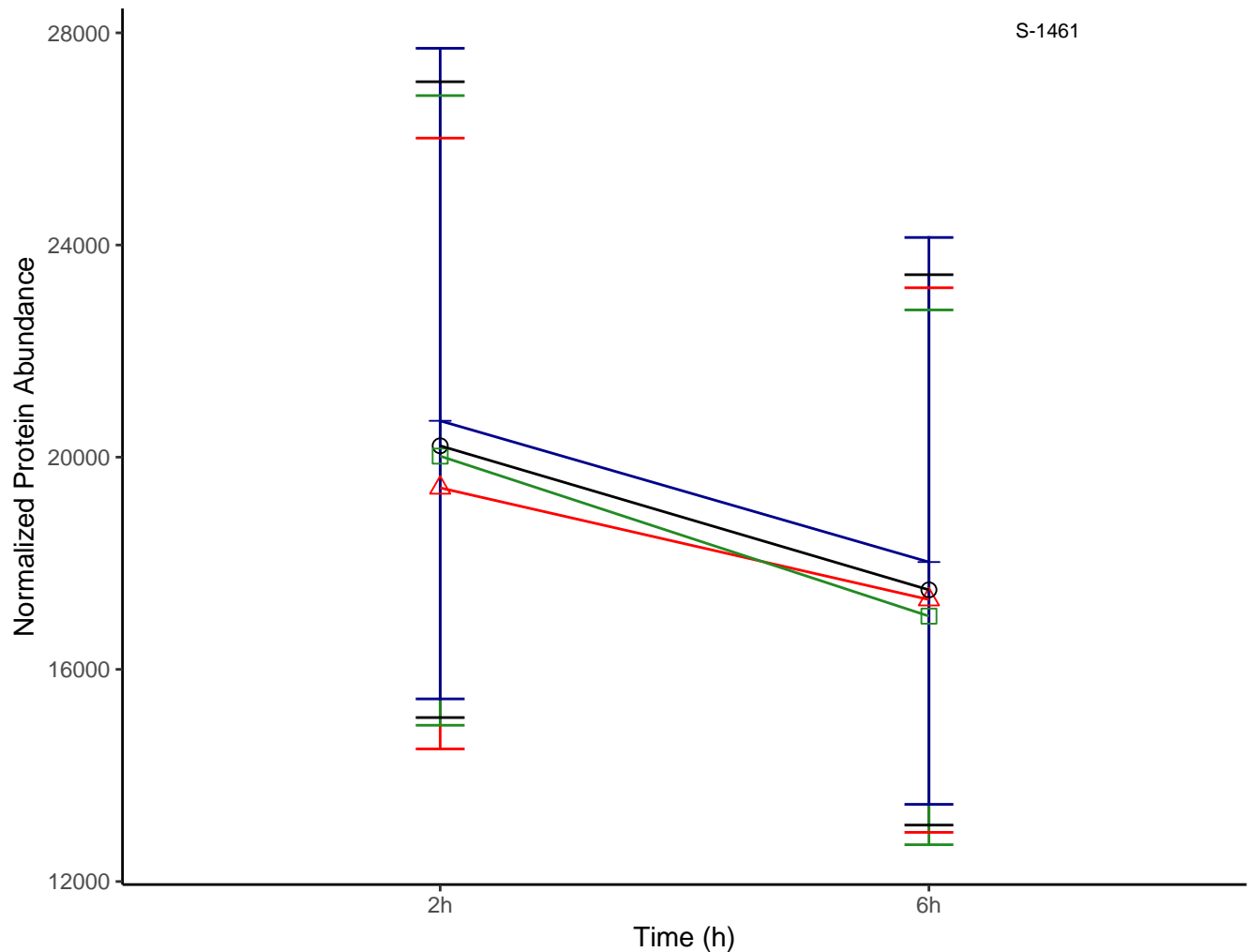
S-1460



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y1090\_STAAM

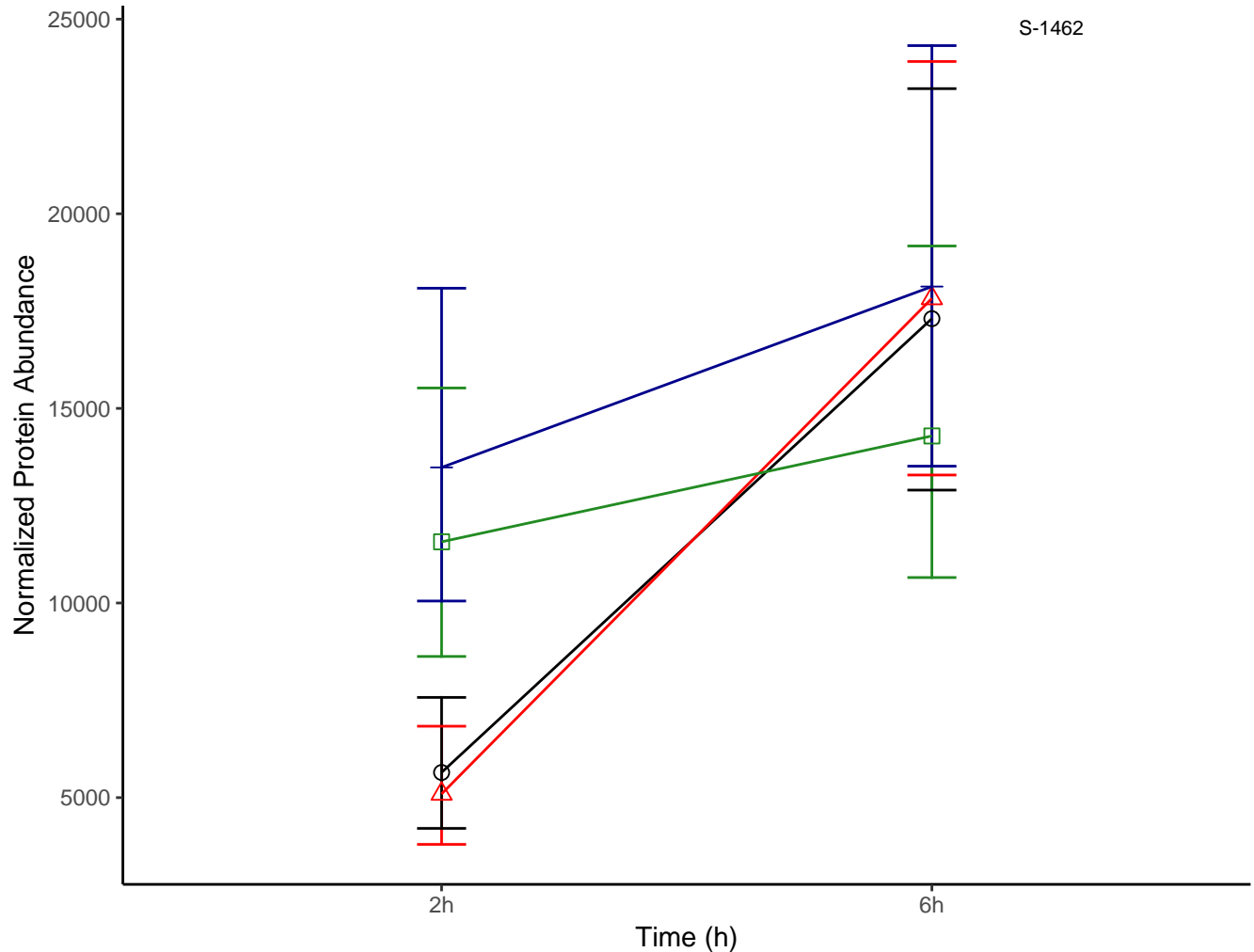
S-1461



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1176\_STAAM

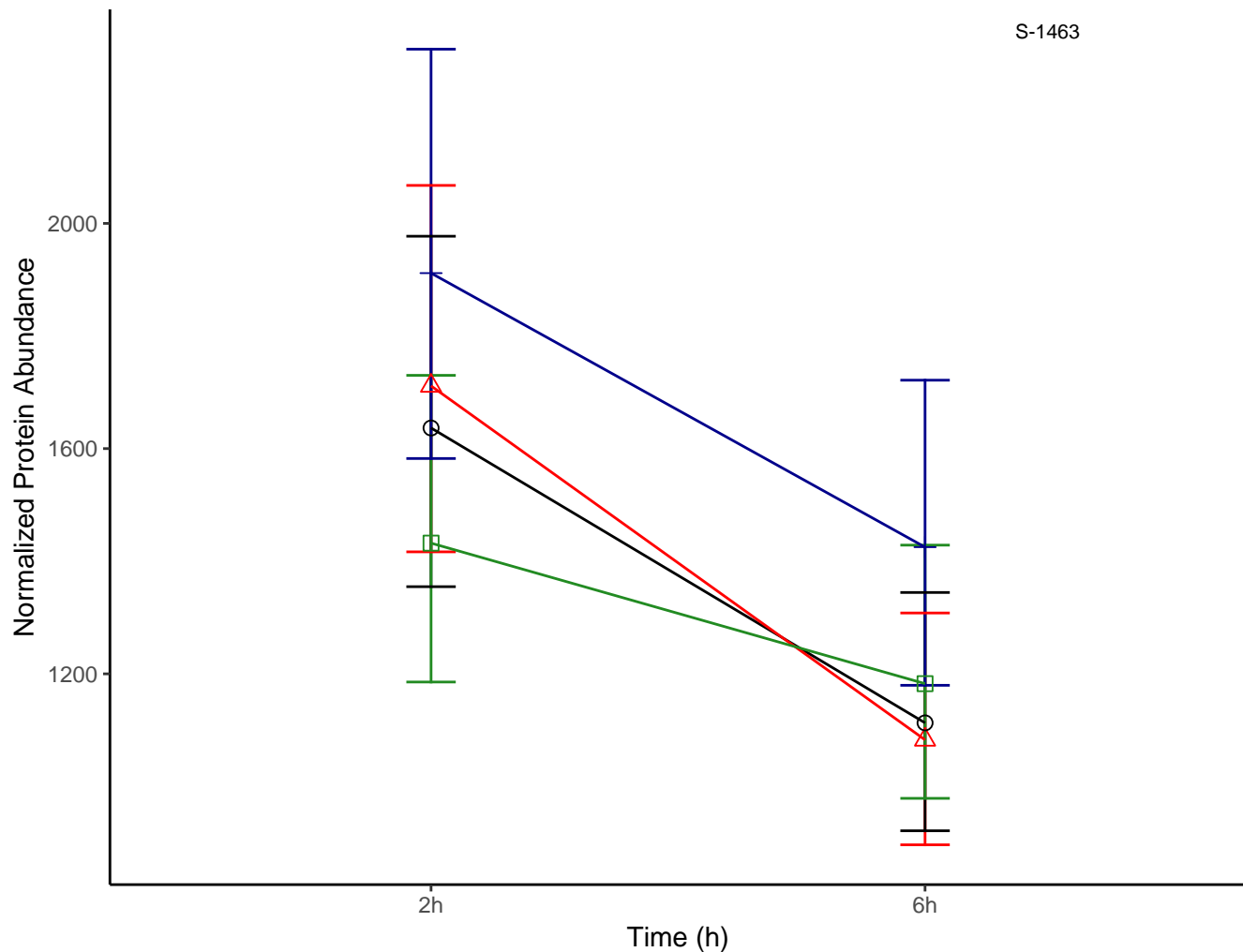
S-1462



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y1177\_STAAM

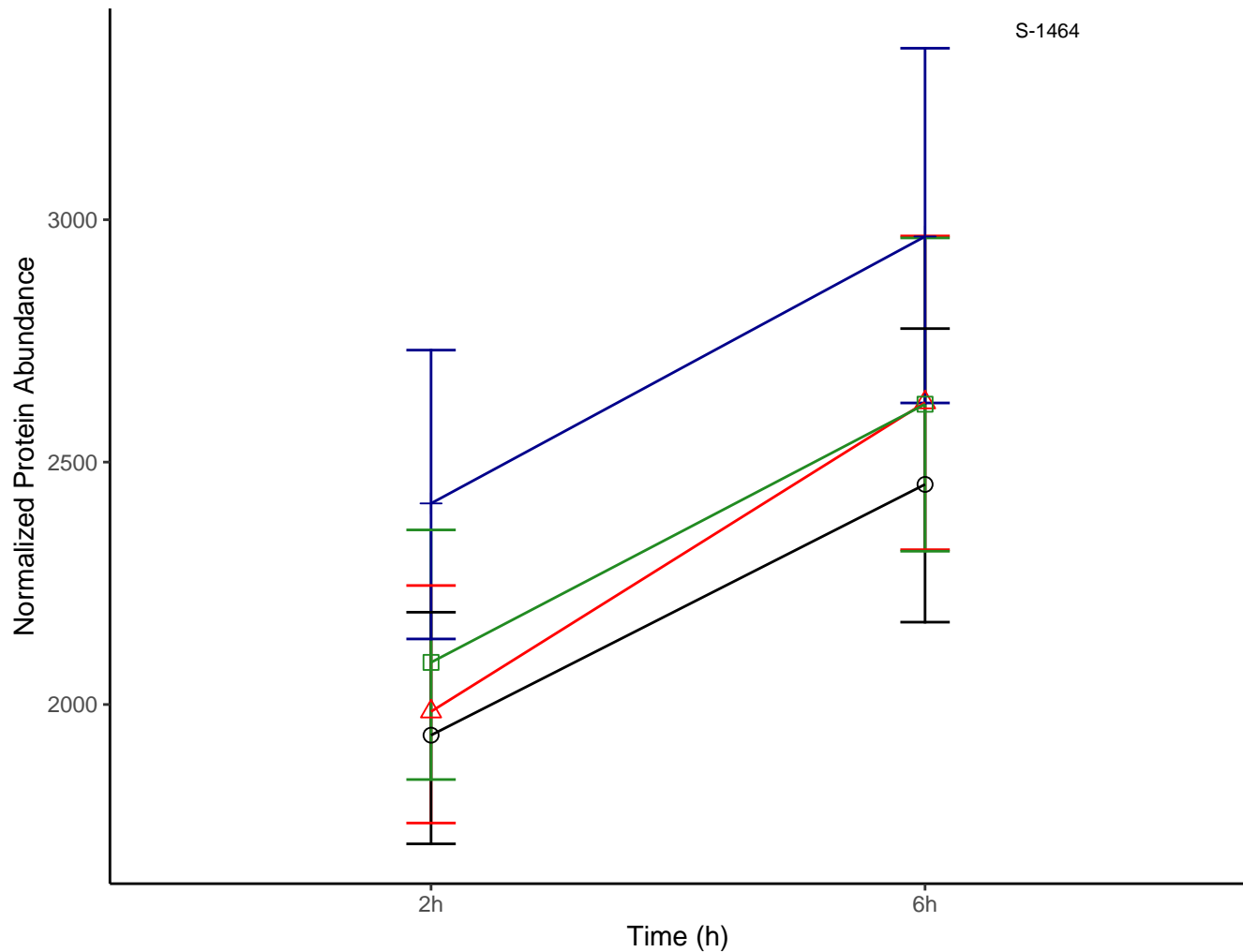
S-1463



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1187\_STAAM

S-1464

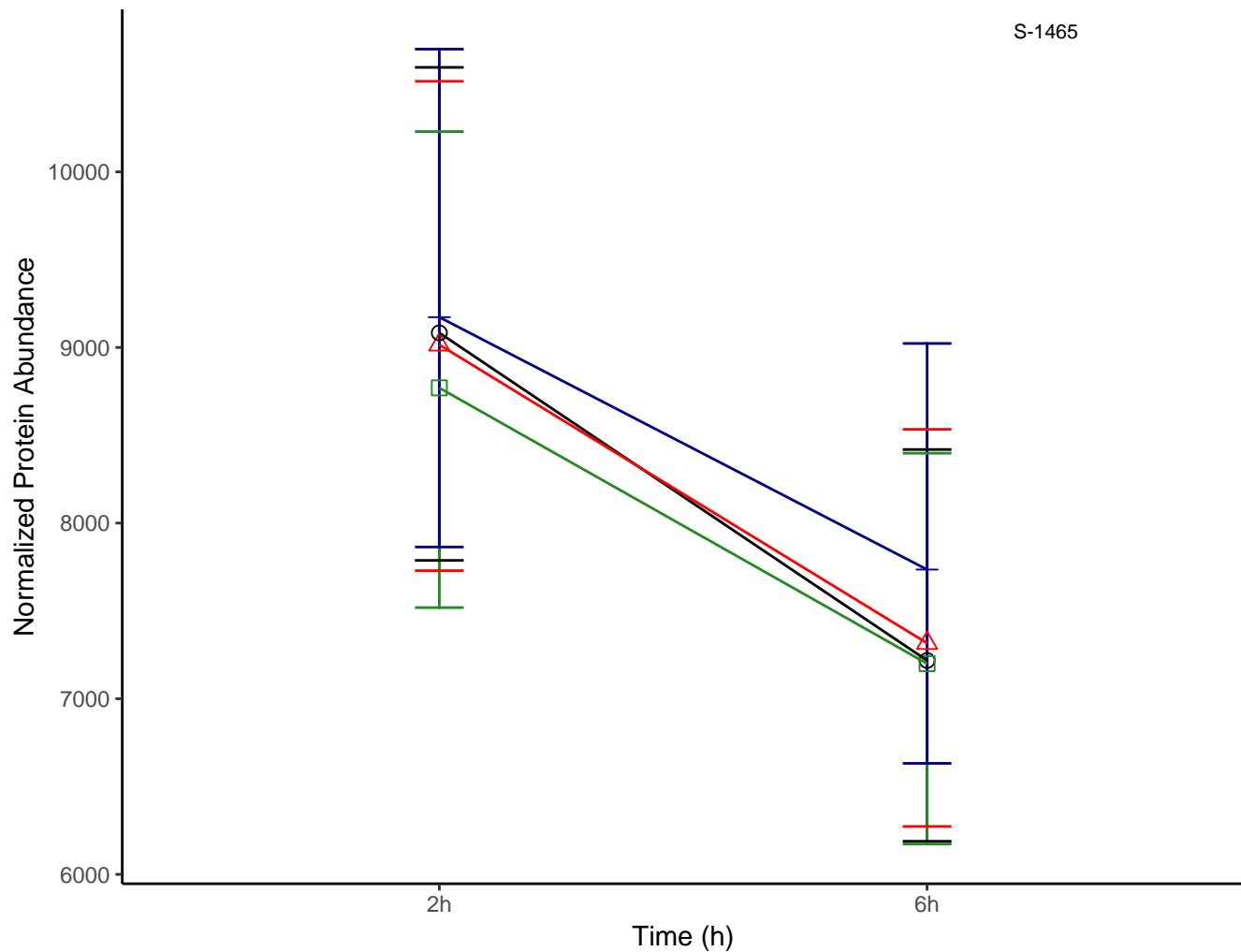


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



## Y1226\_STAAM

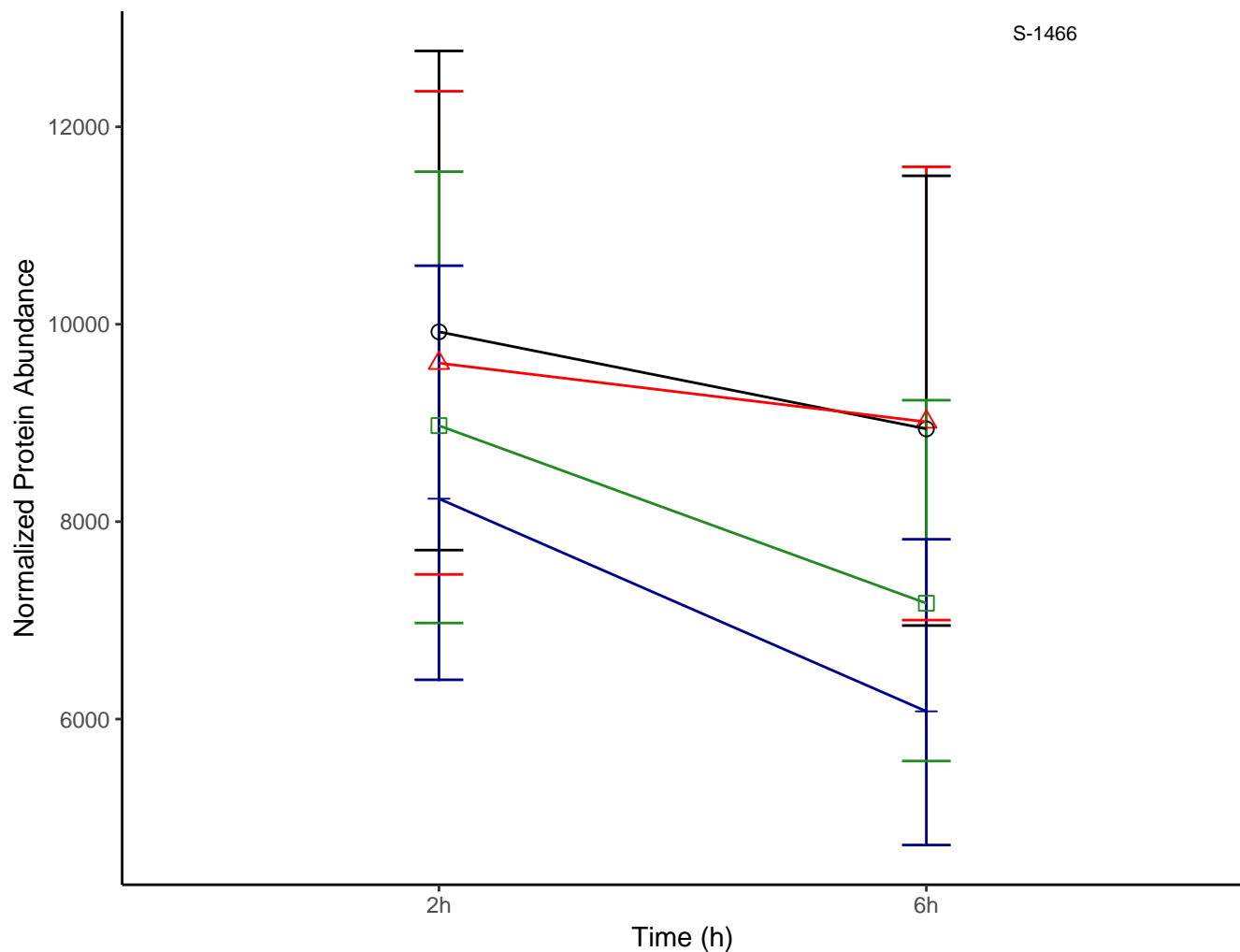
S-1465



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1341\_STAAM

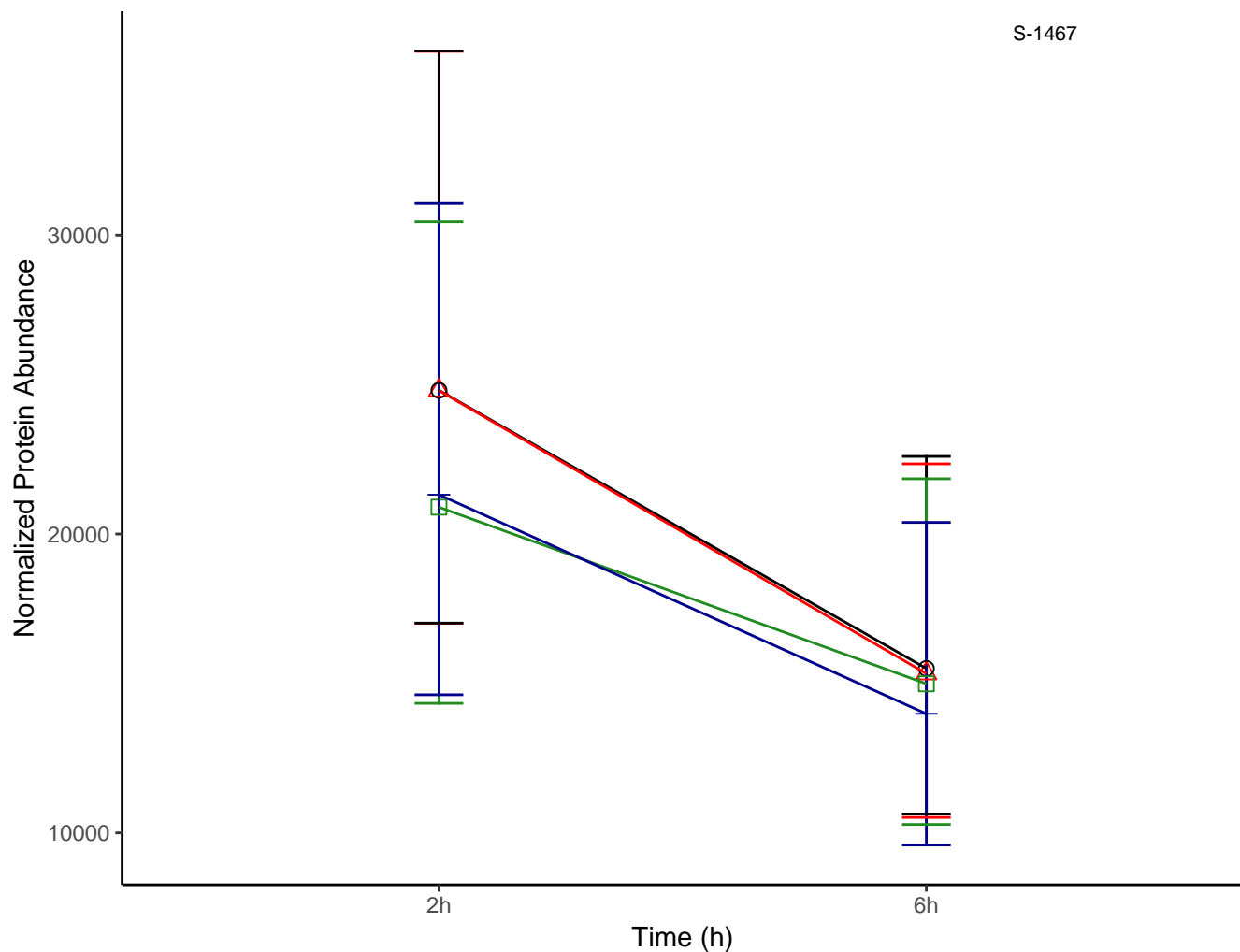
S-1466



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1343\_STAAM

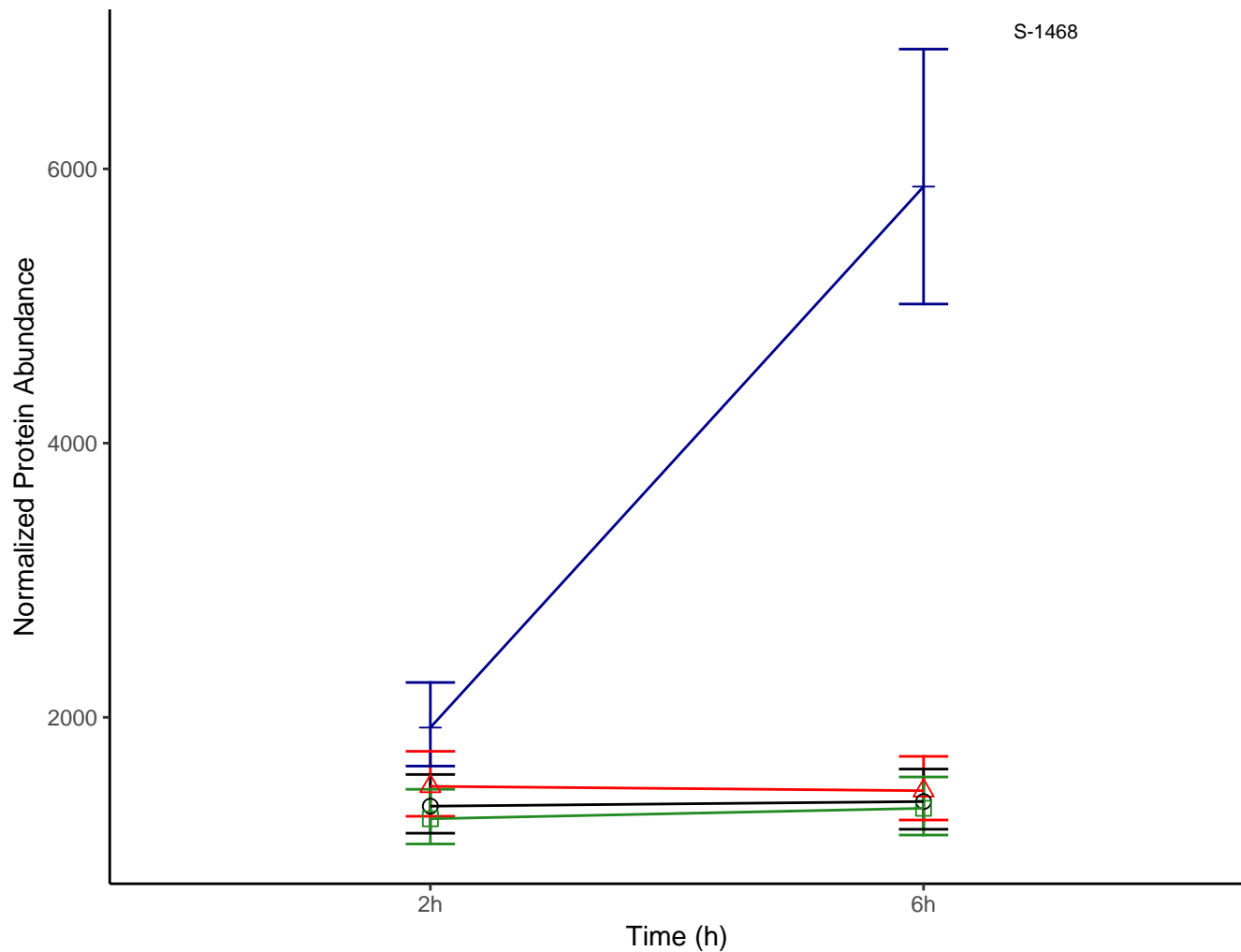
S-1467



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1352\_STAAM

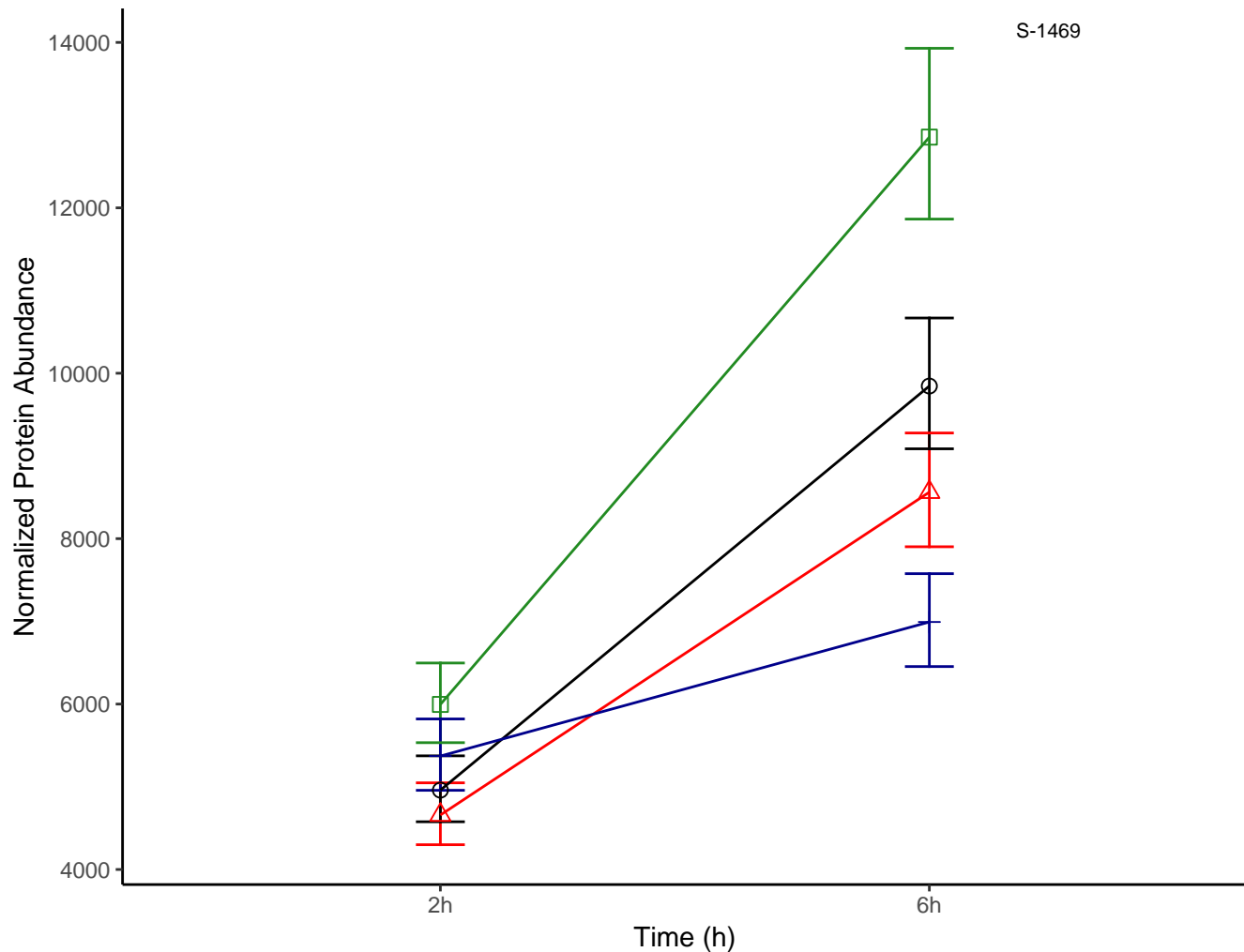
S-1468



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y1363\_STAAM

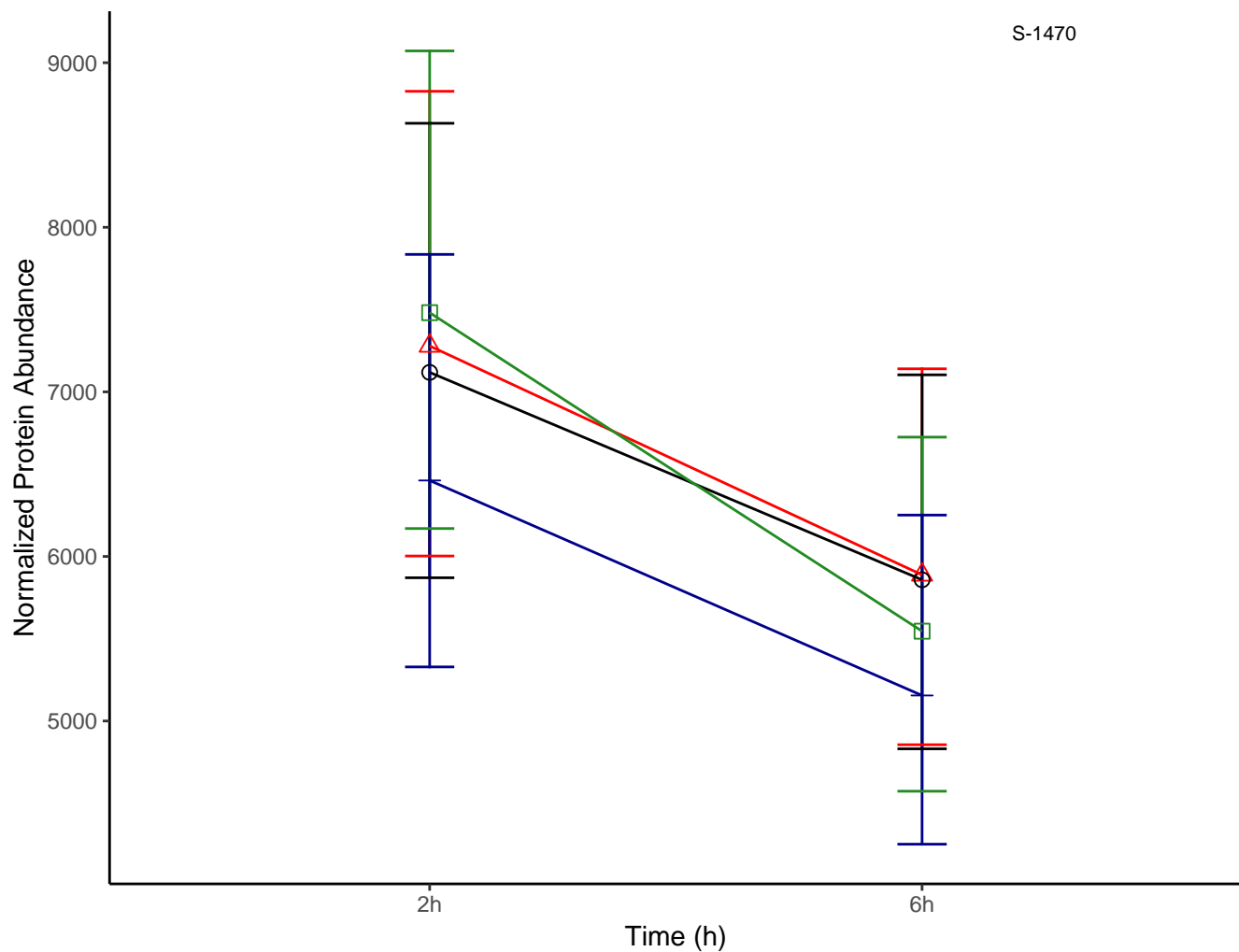
S-1469



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y1409\_STAAM

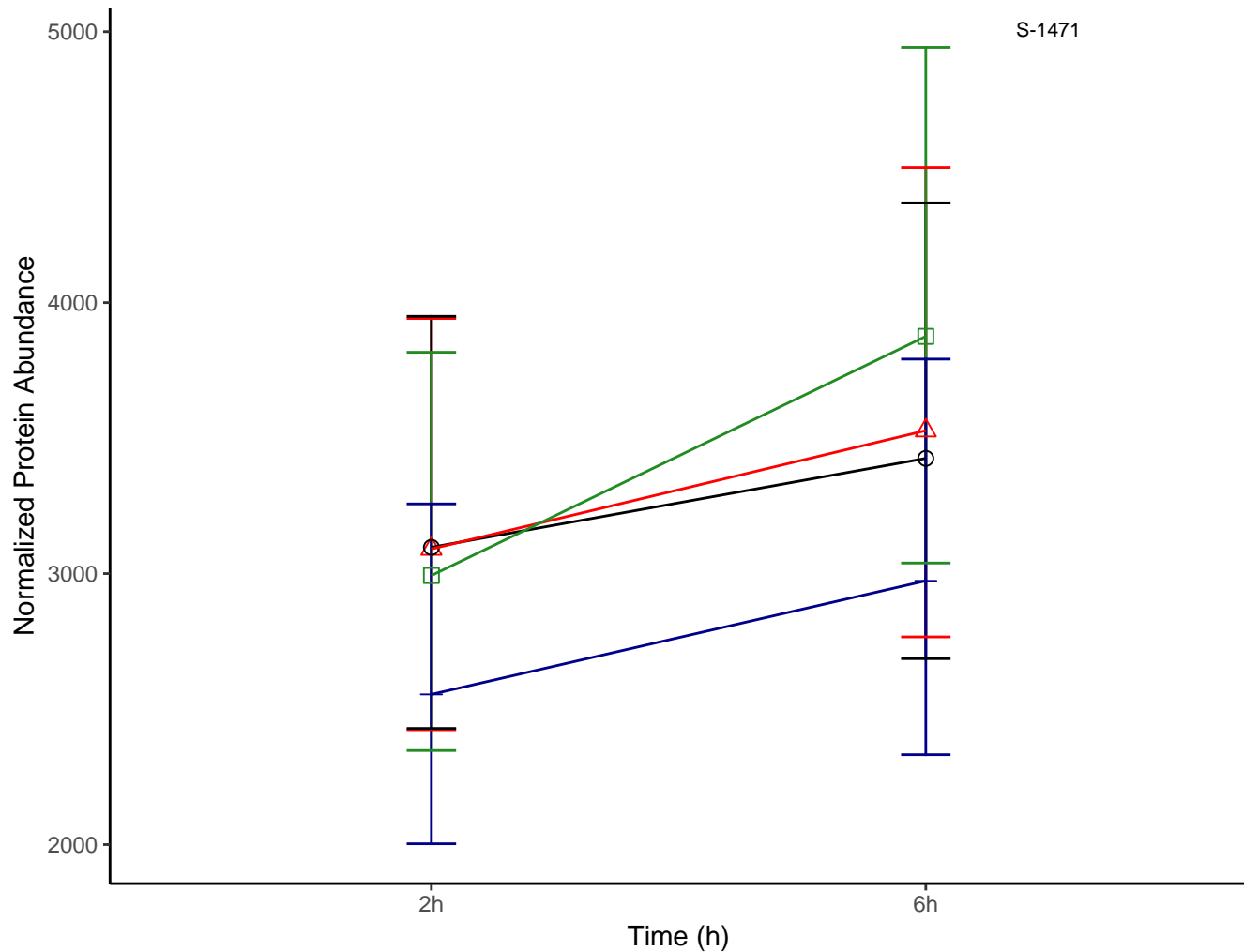
S-1470



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1425\_STAAM

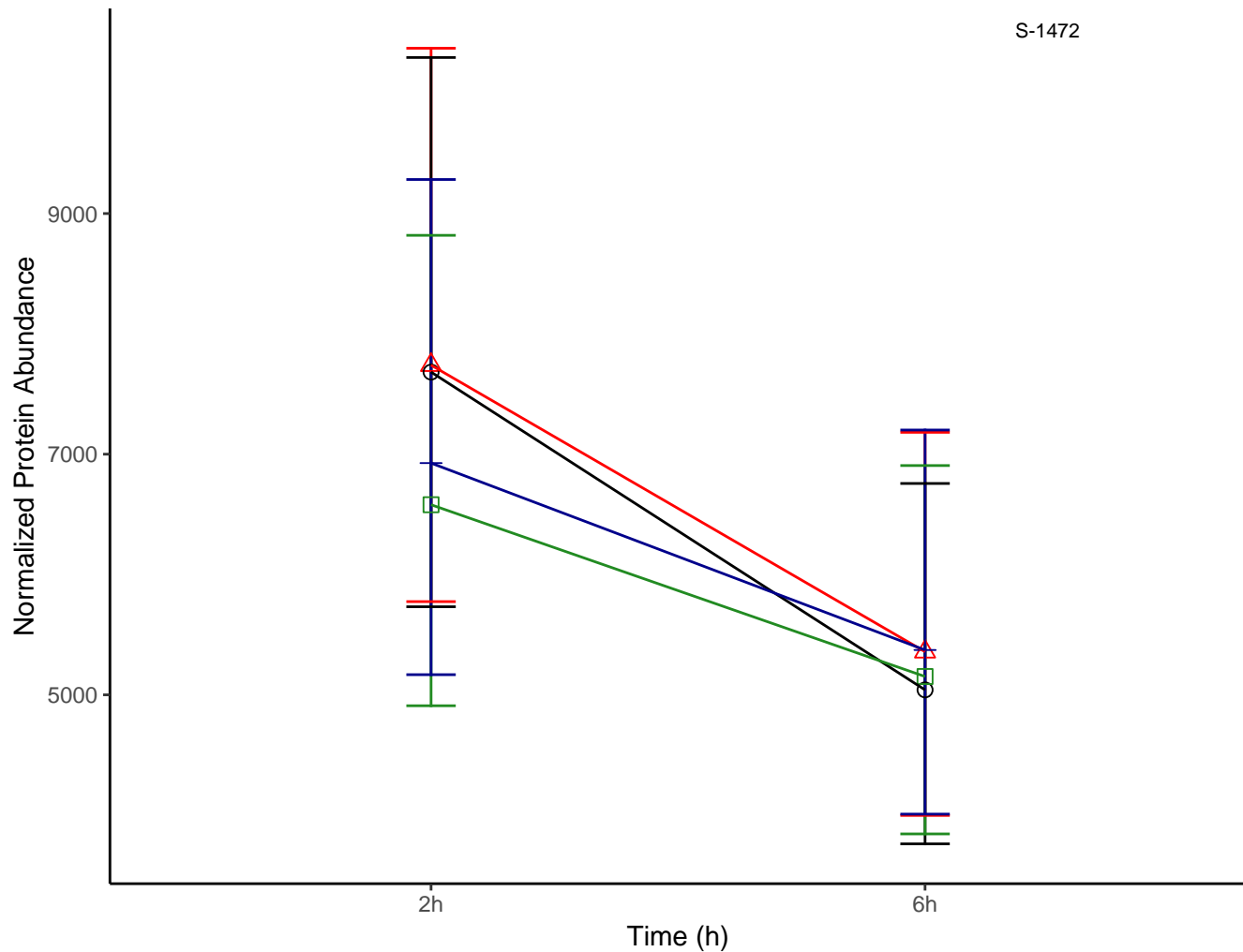
S-1471



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## Y1462\_STAAM

S-1472

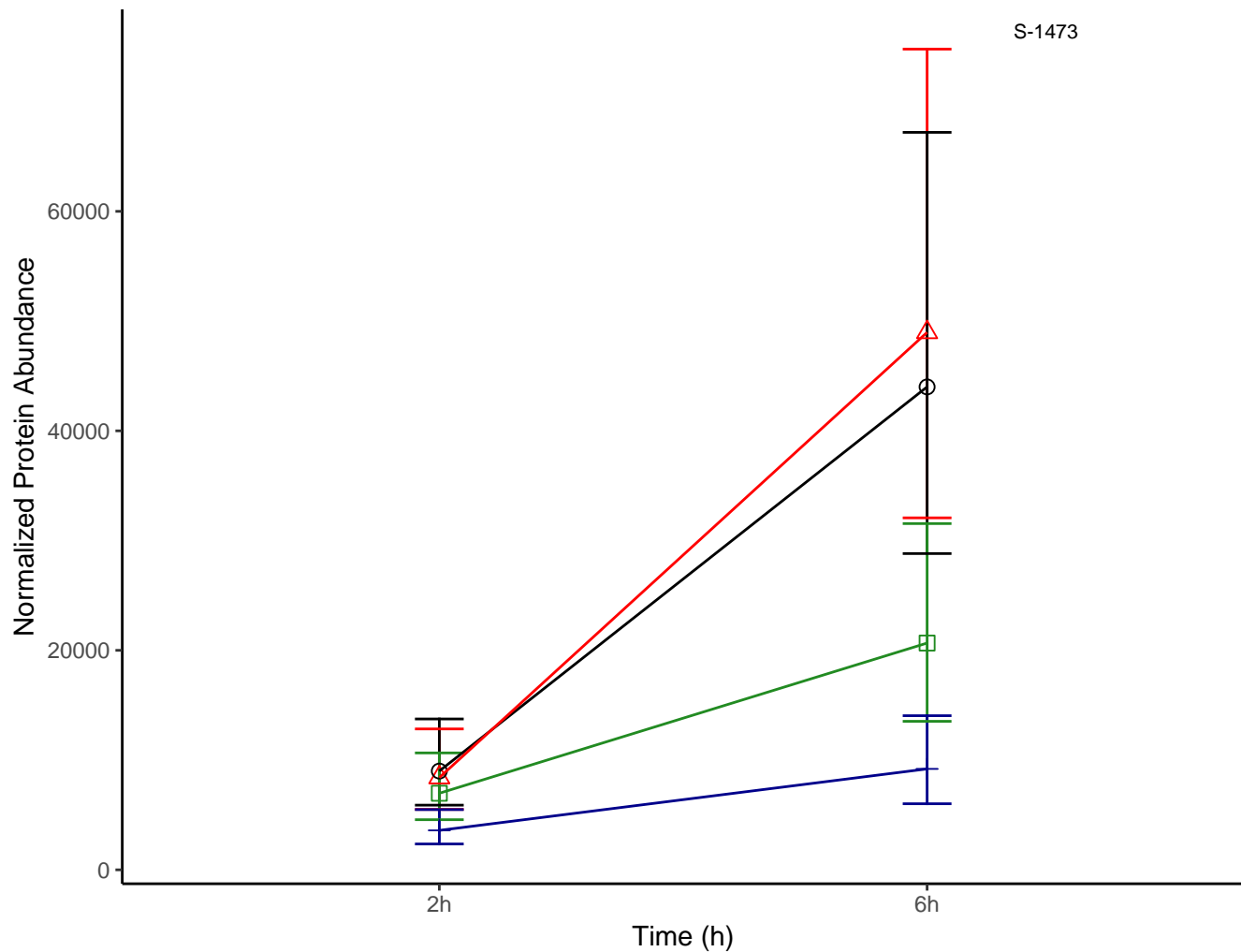


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# Y1514\_STAAM

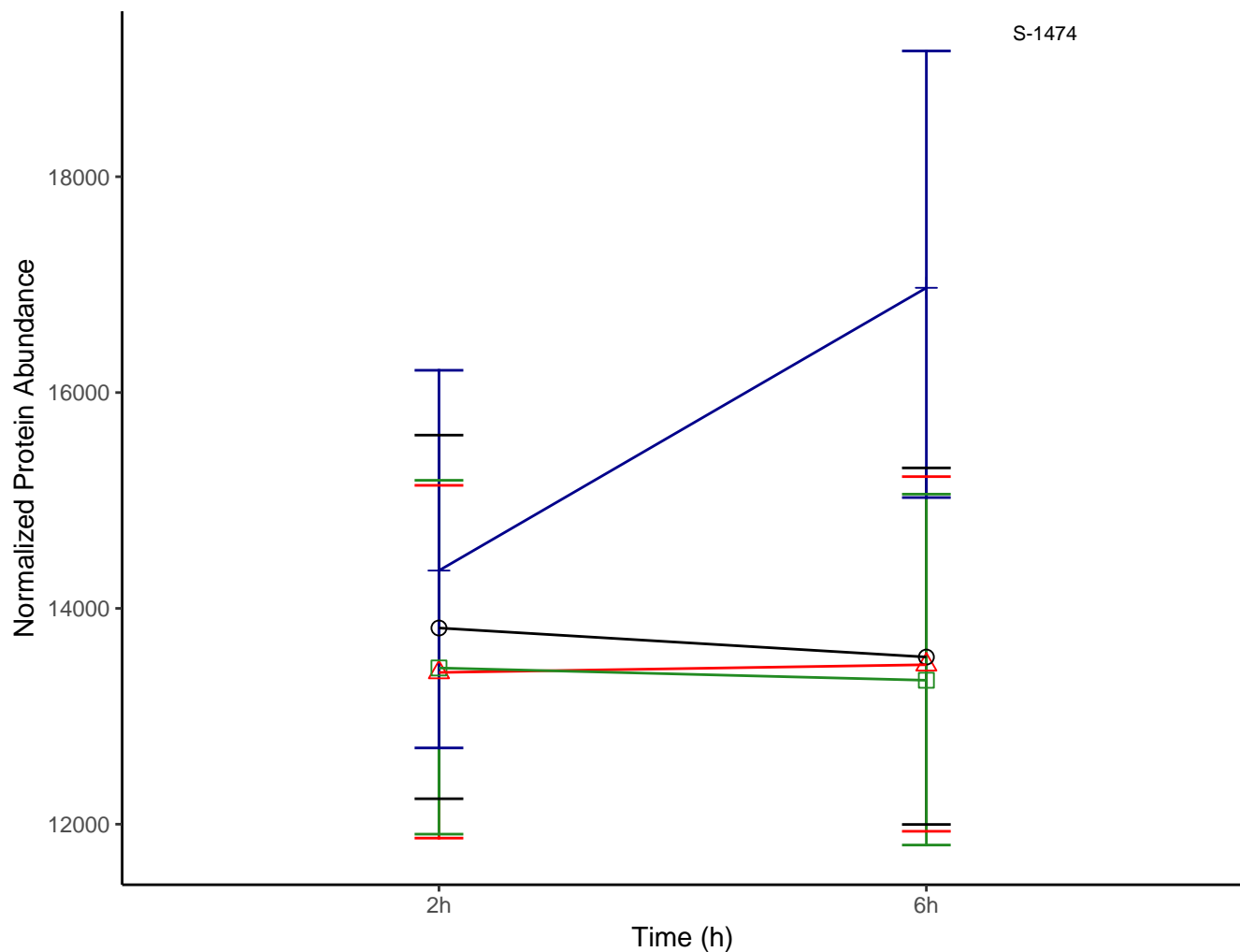
S-1473



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1573\_STAAM

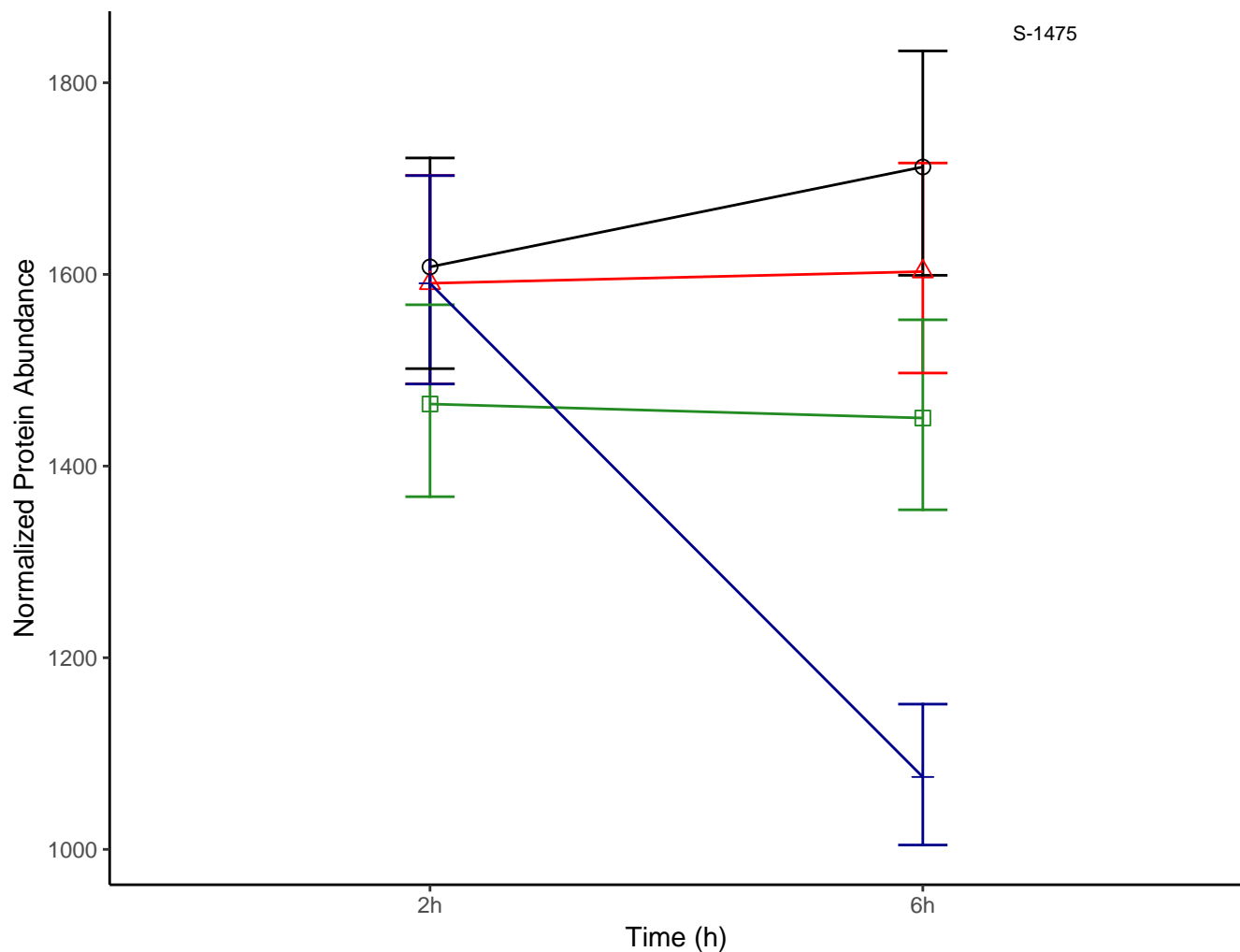
S-1474



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1605\_STAAM

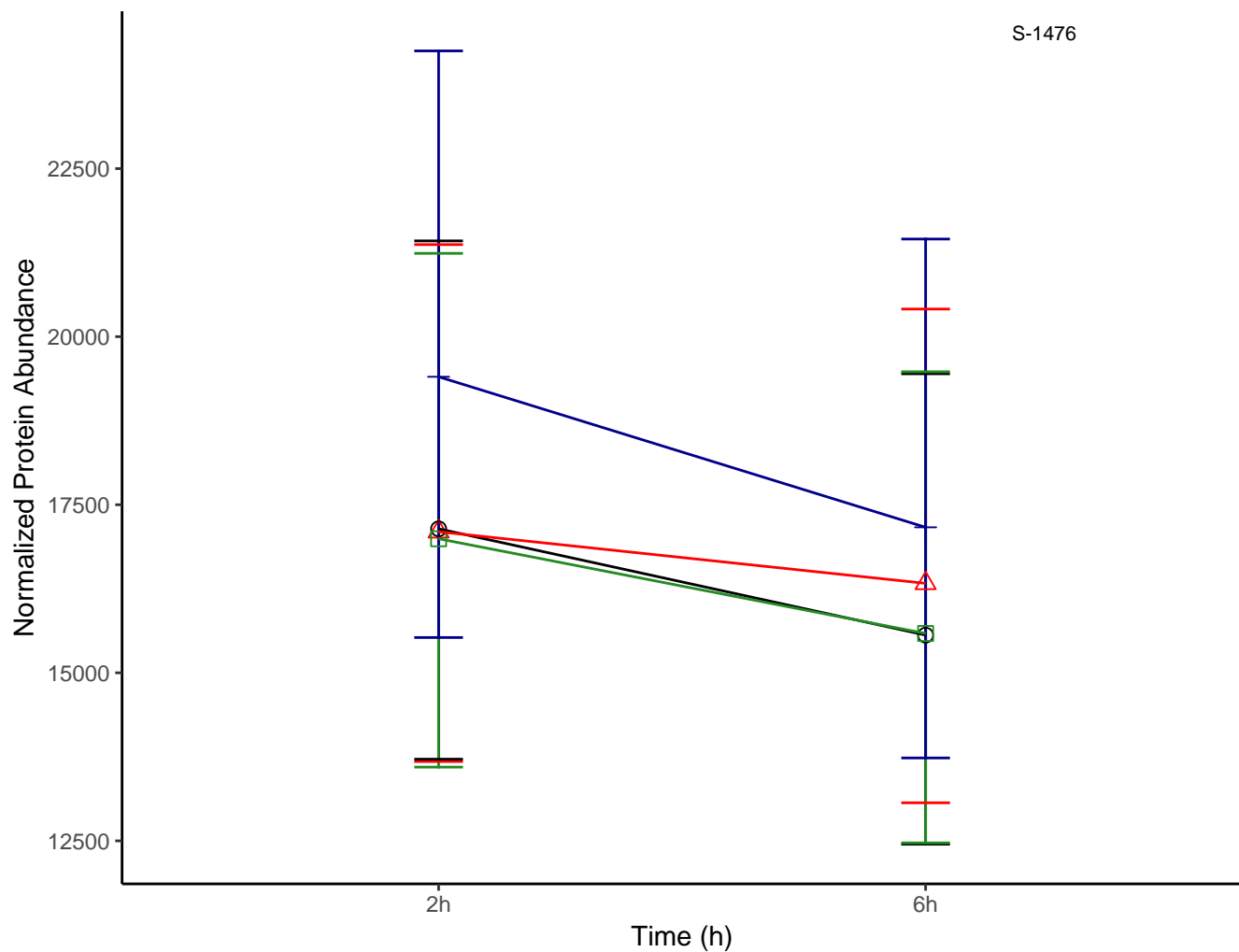
S-1475



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y1617\_STAAM

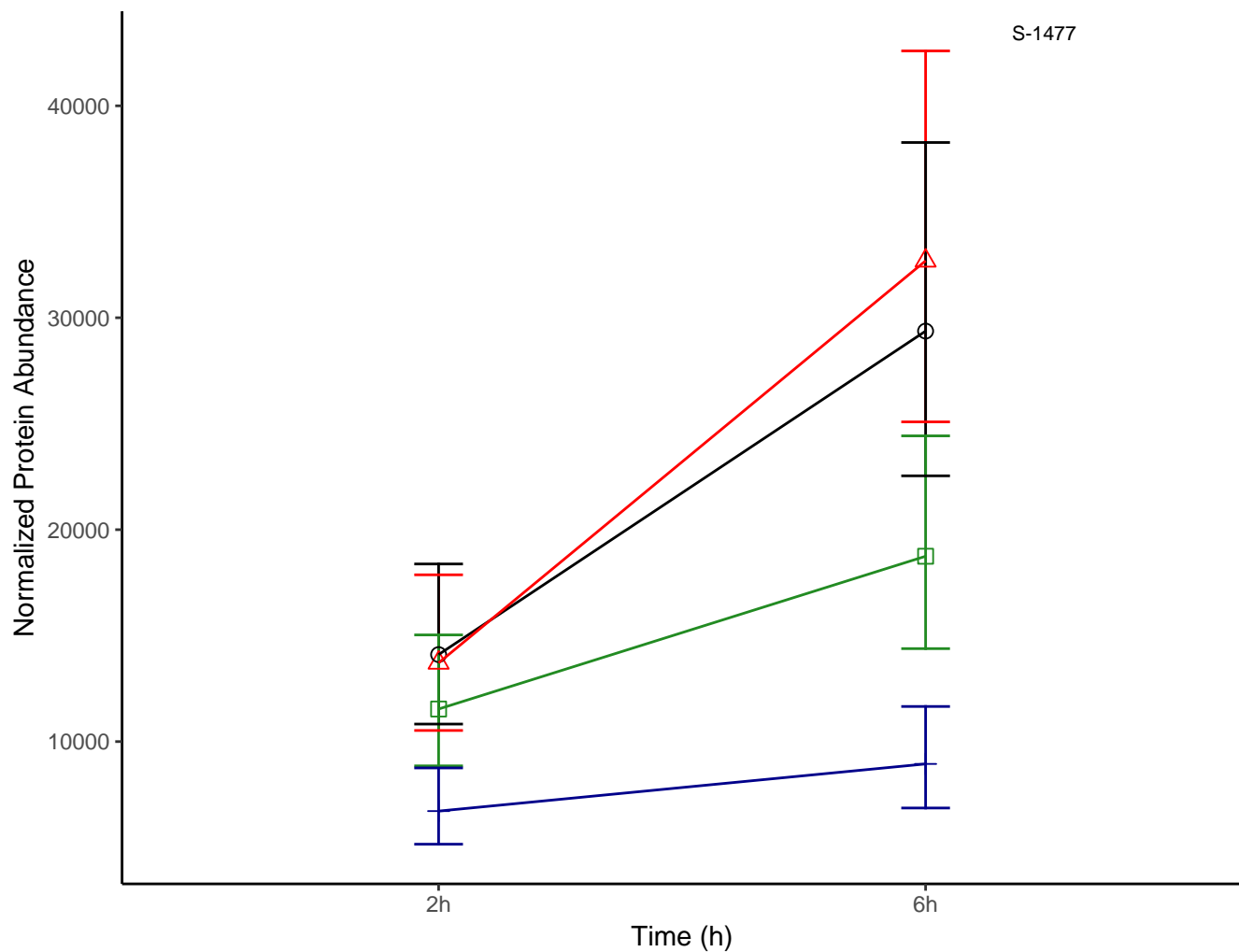
S-1476



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1625\_STAAM

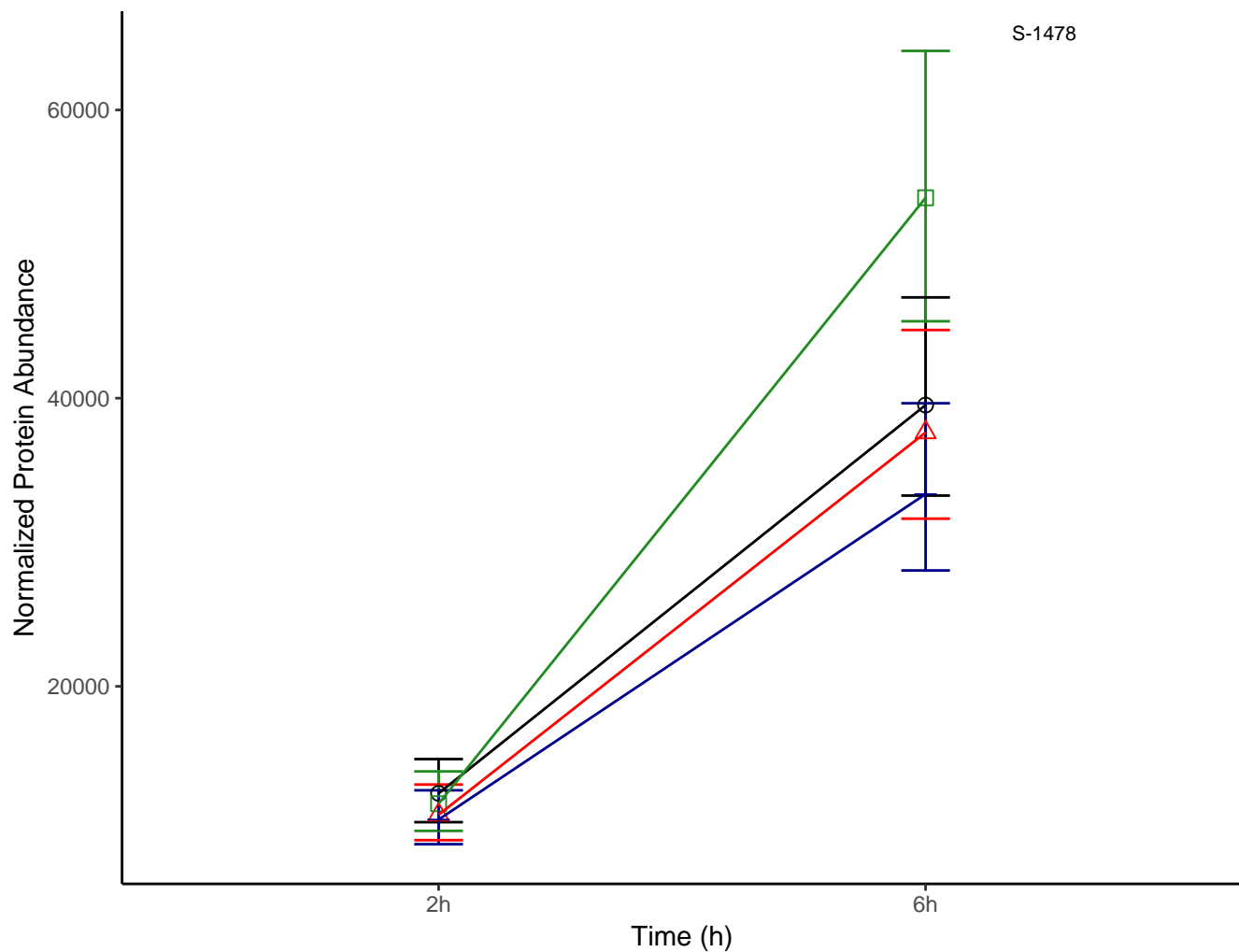
S-1477



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1710\_STAAM

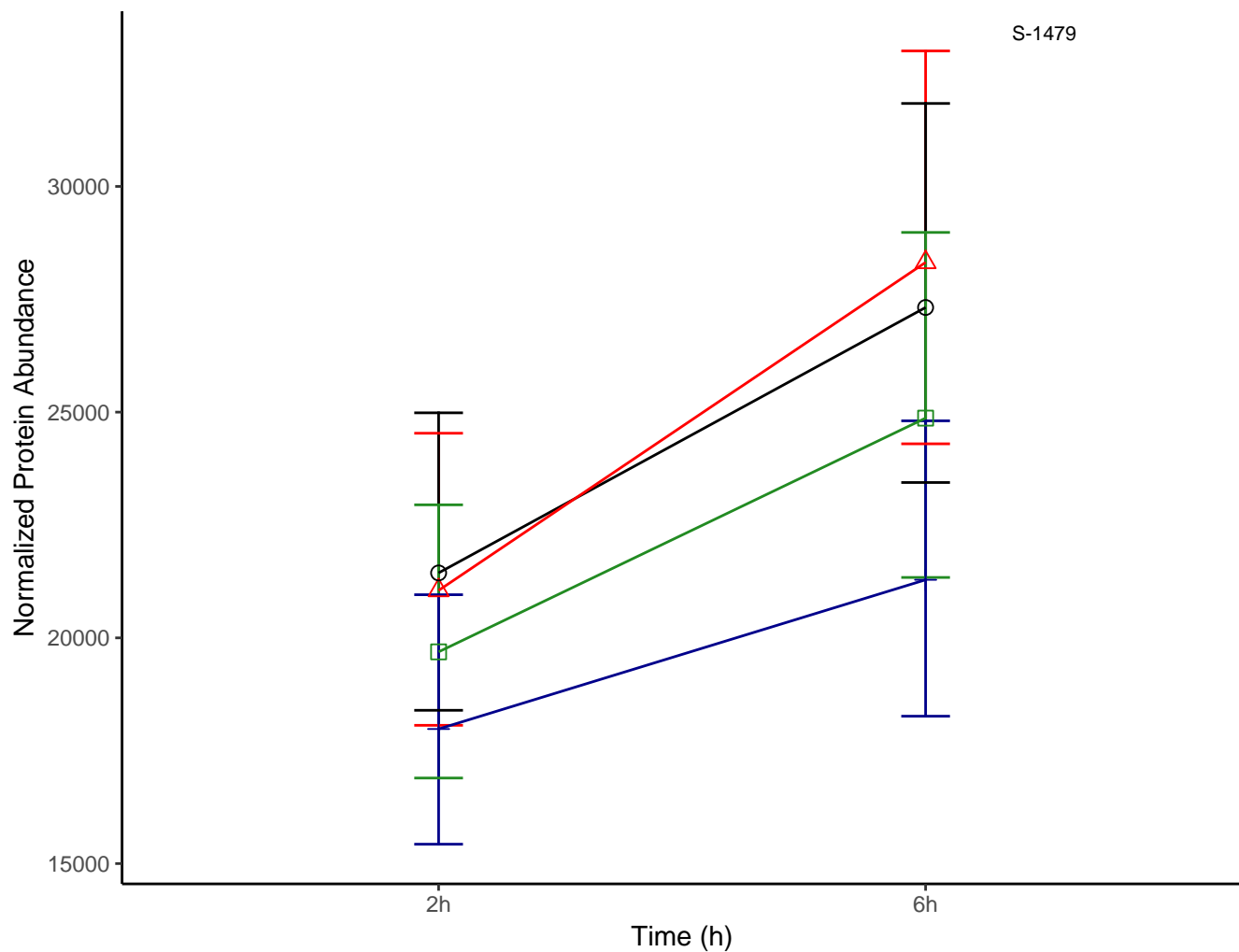
S-1478



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1739\_STAAM

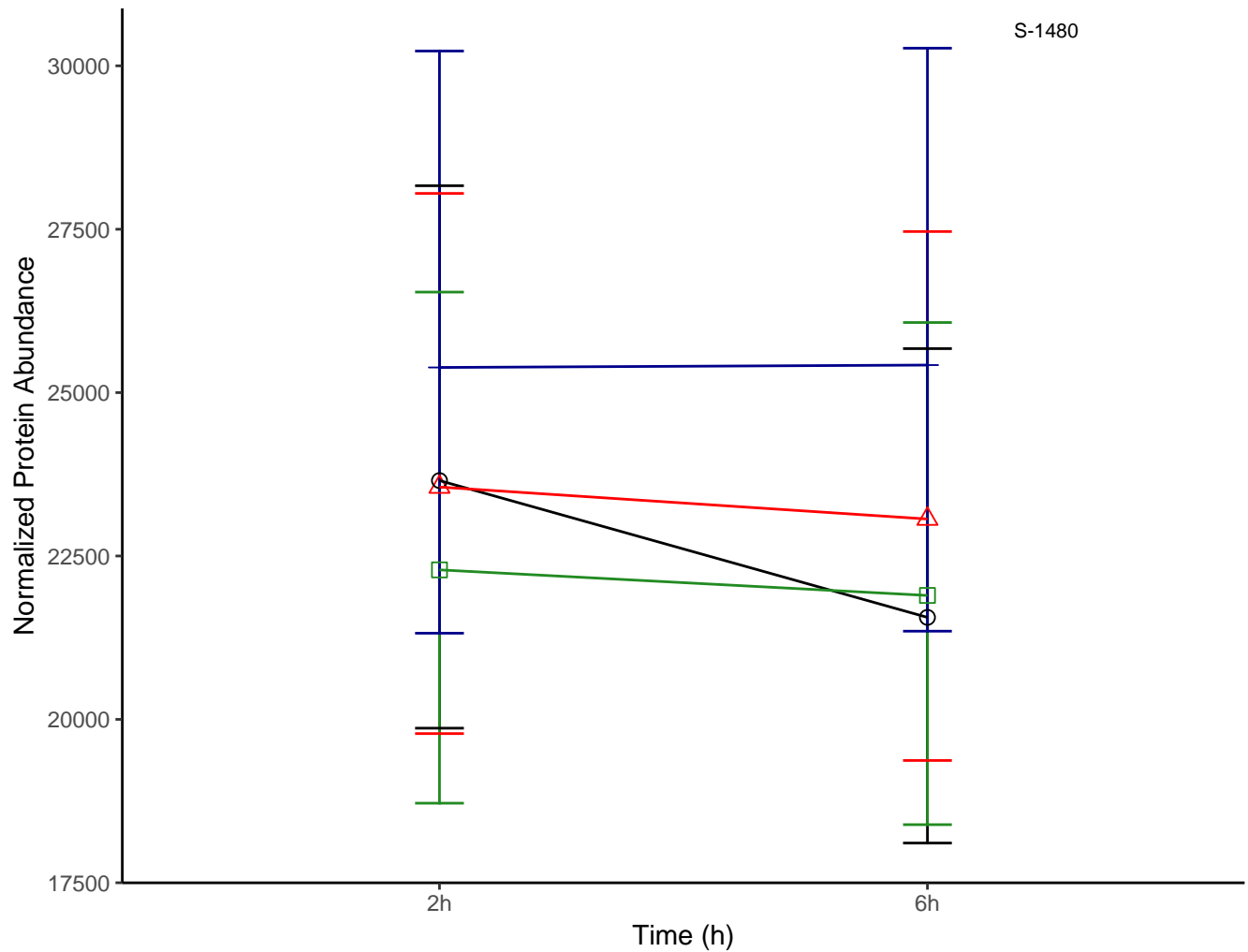
S-1479



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1845\_STAAM

S-1480



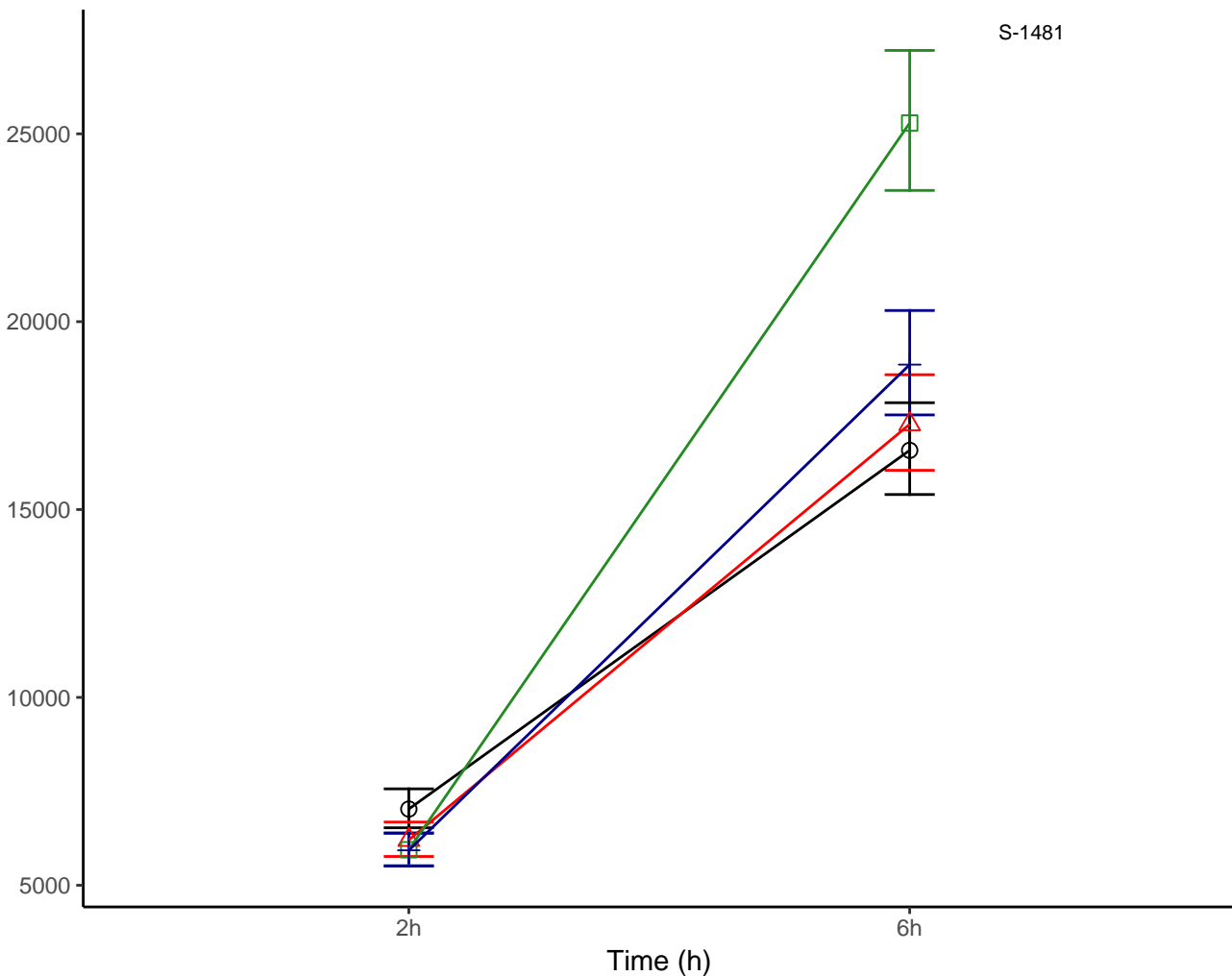
- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# Y1866\_STAAM

S-1481

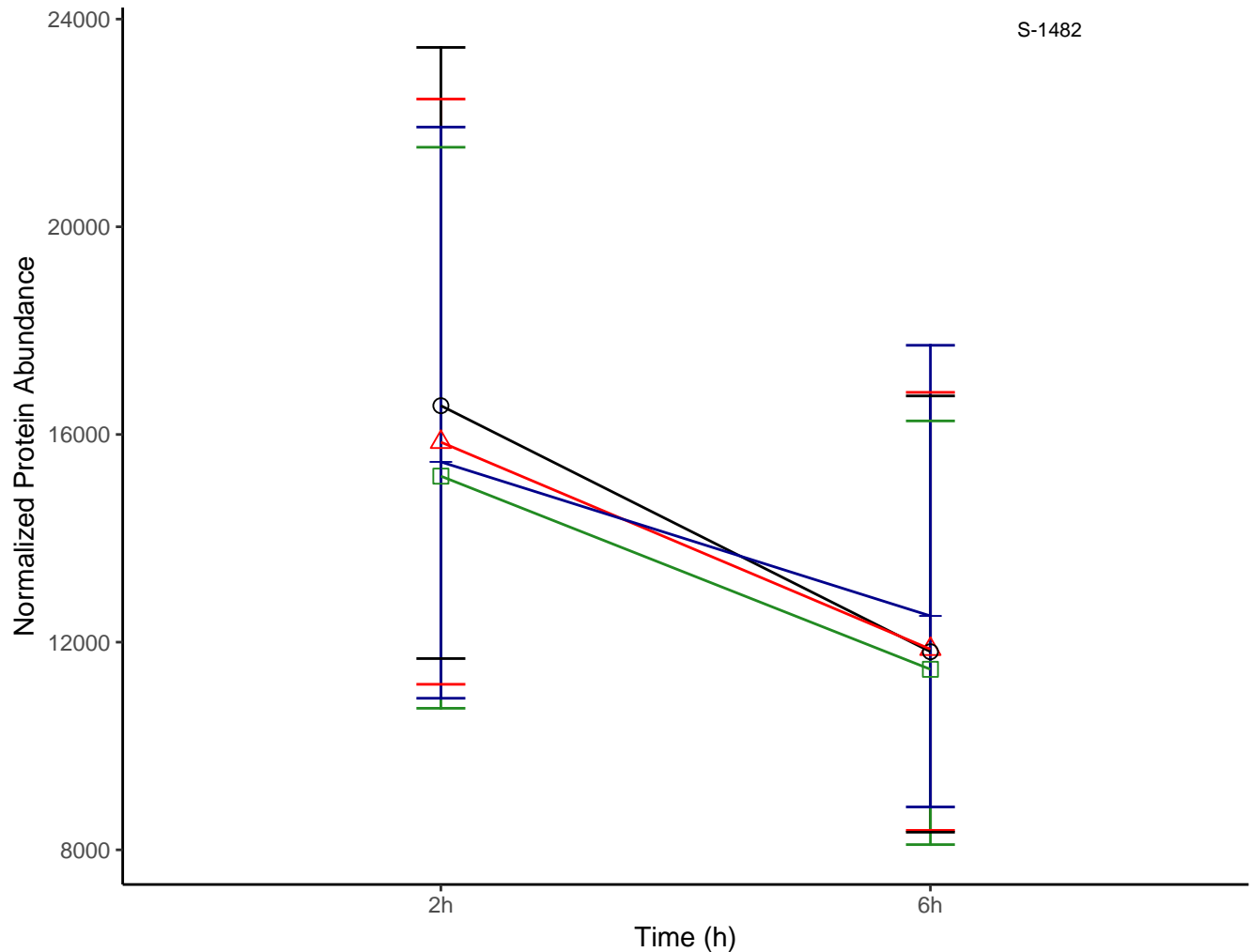
Normalized Protein Abundance



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1880\_STAAM

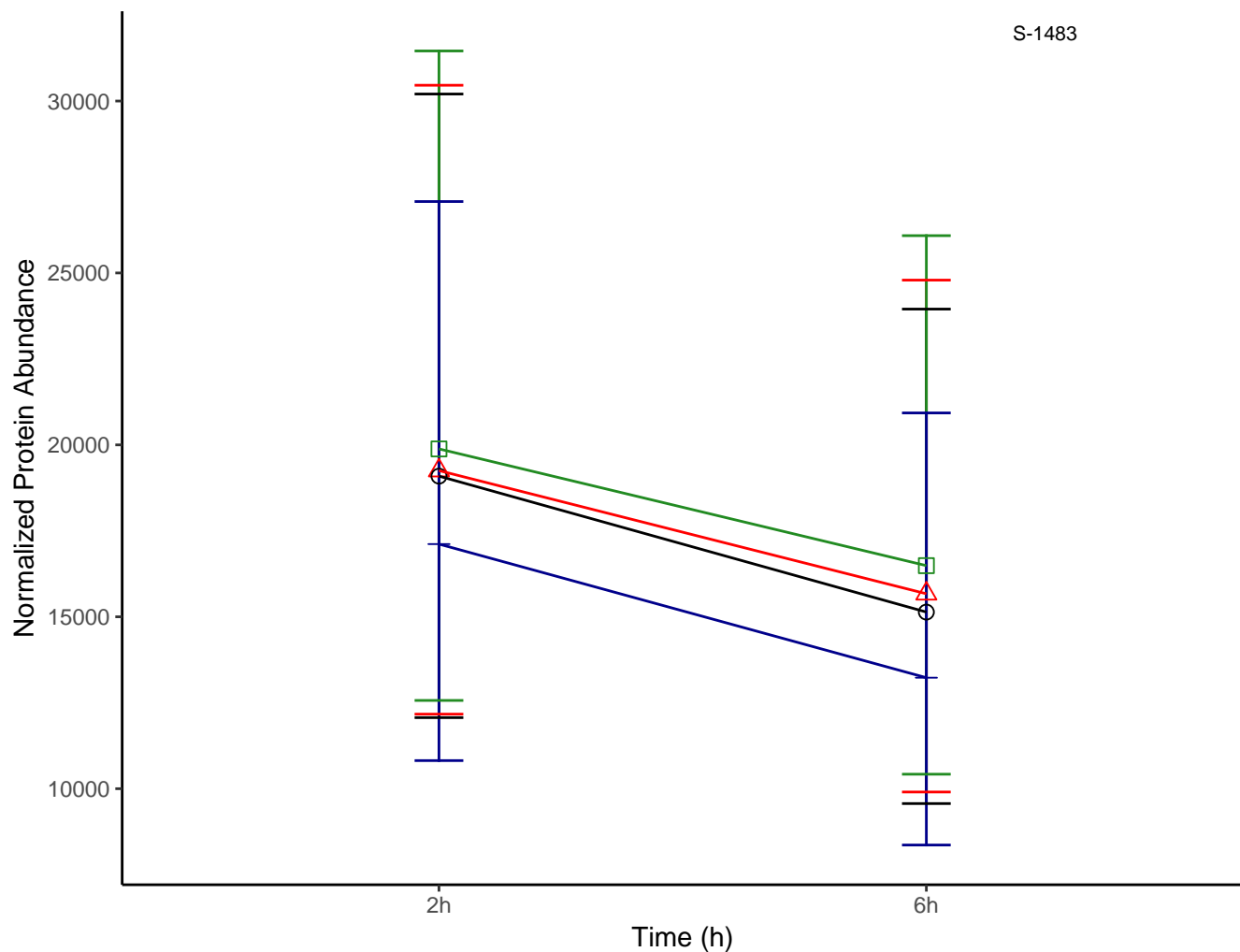
S-1482



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y1921\_STAAM

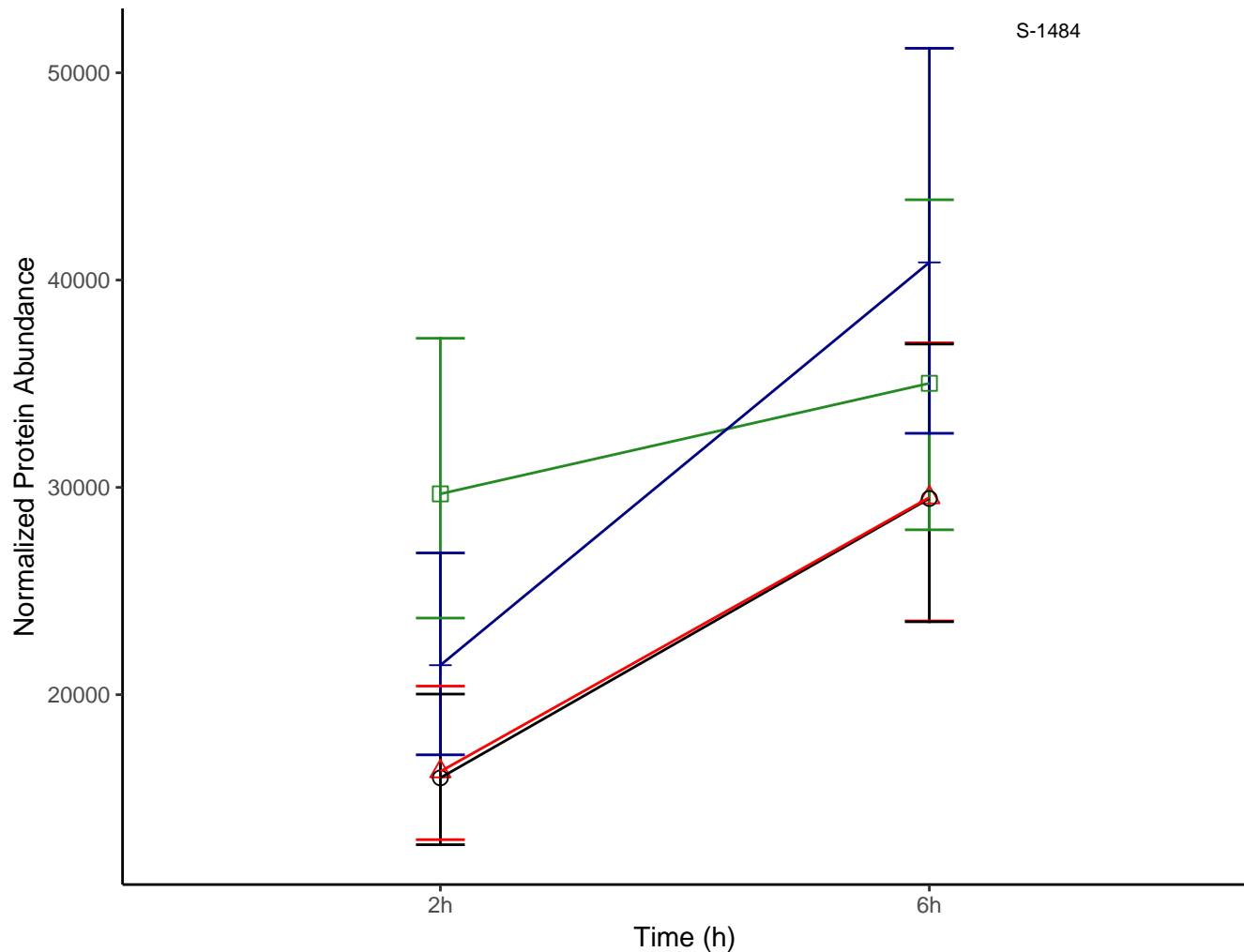
S-1483



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y2173\_STAAM

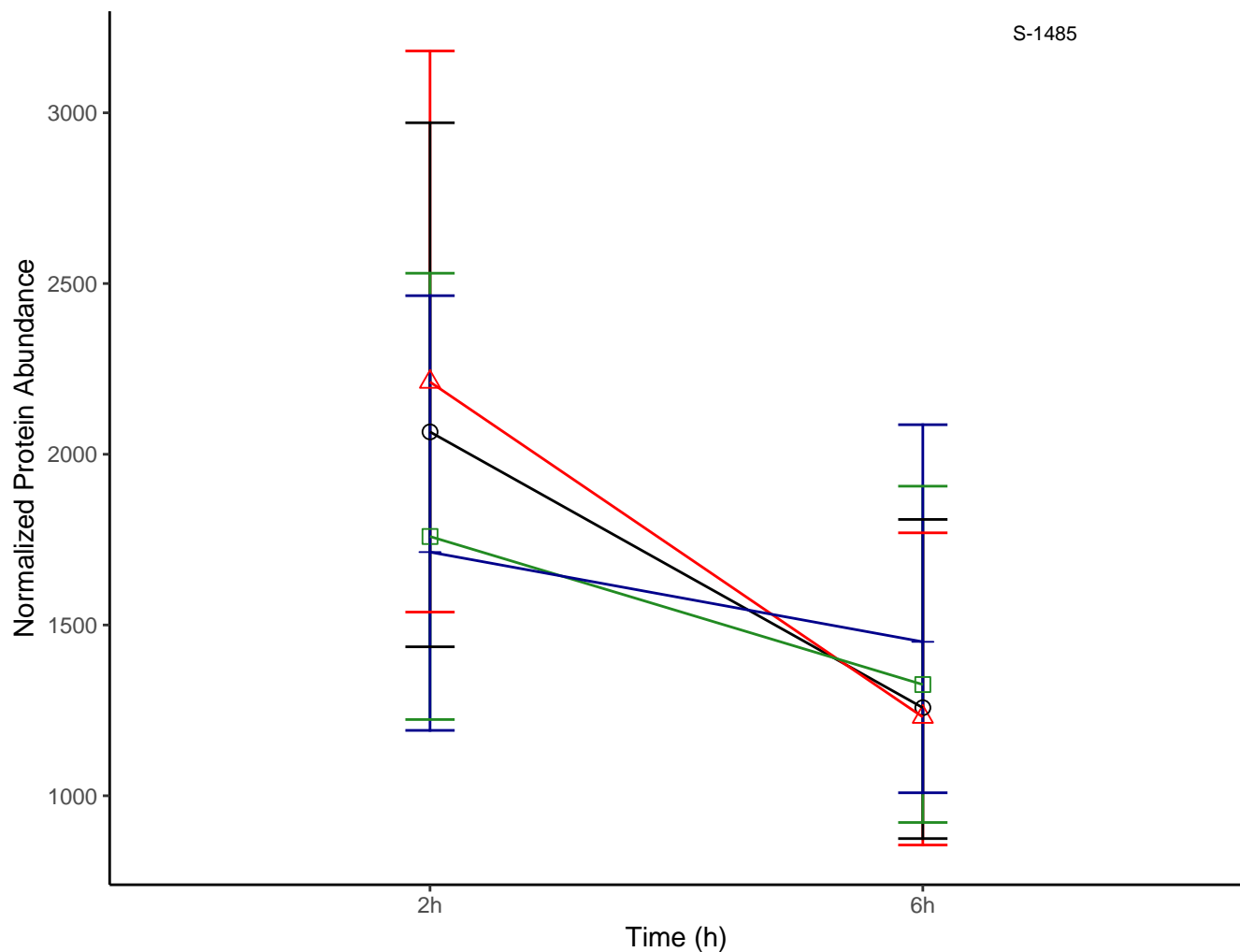
S-1484



- SA564
- △ SA564-ΔhptRS
- SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

## Y2204\_STAAM

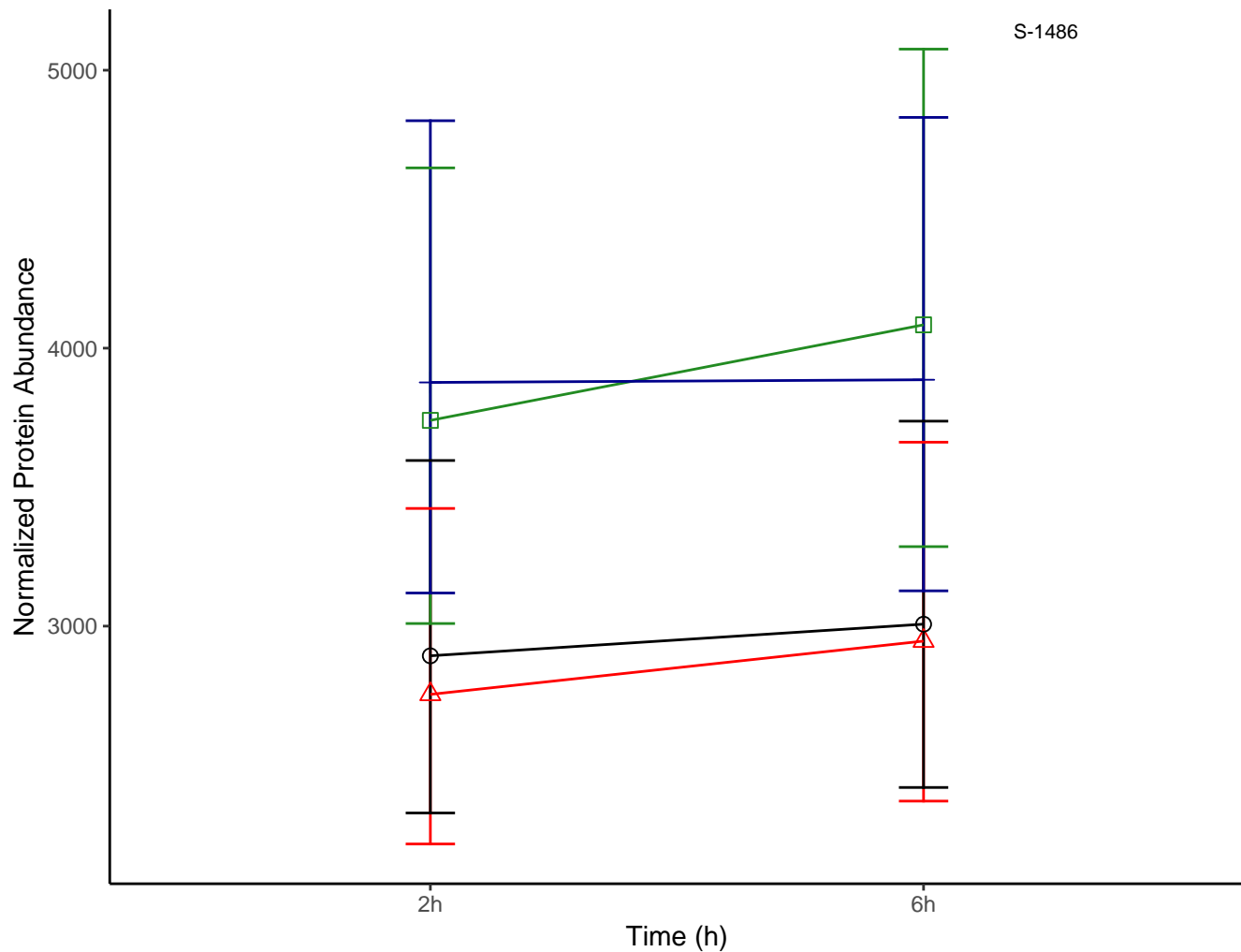
S-1485



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2265\_STAAM

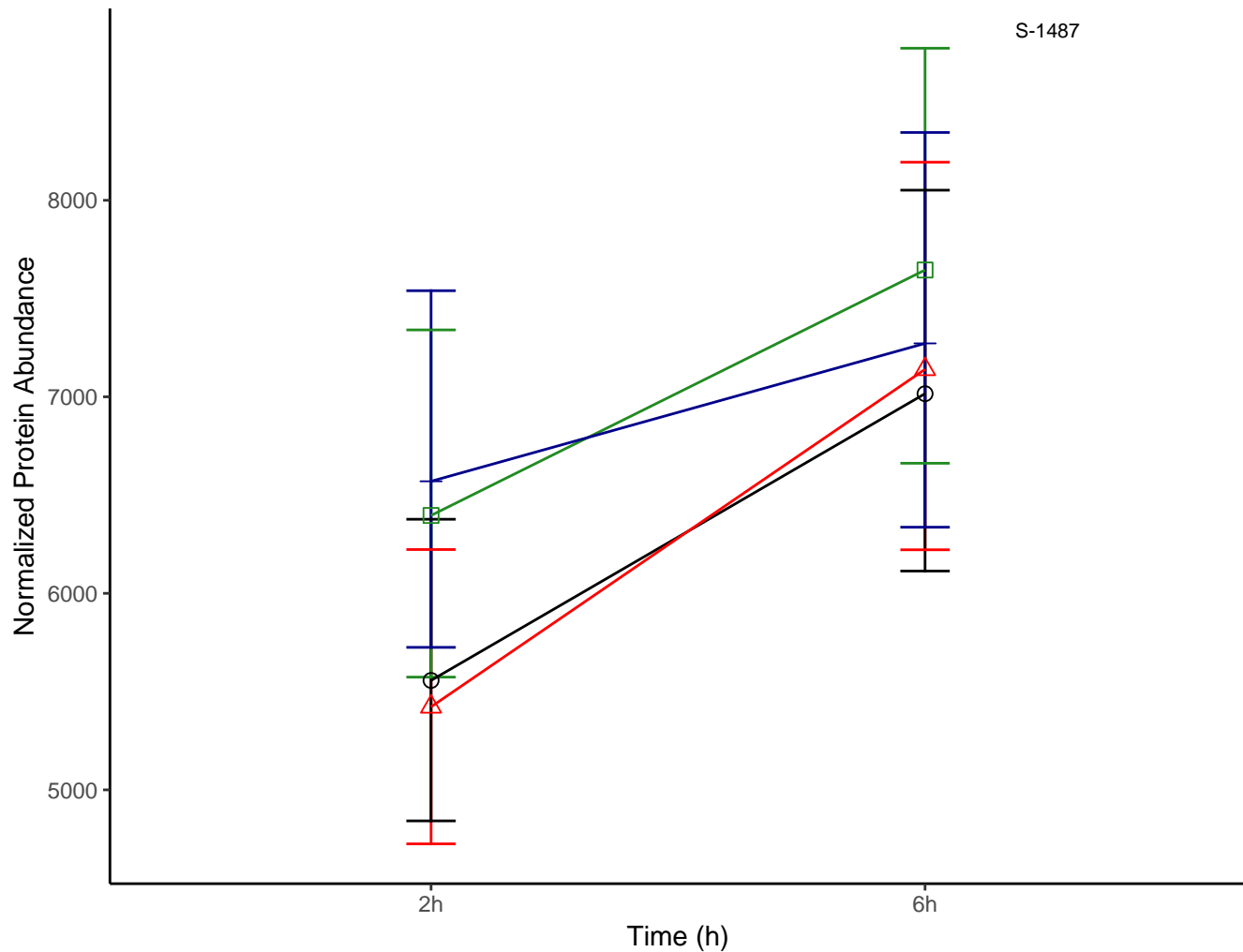
S-1486



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y2305\_STAAM

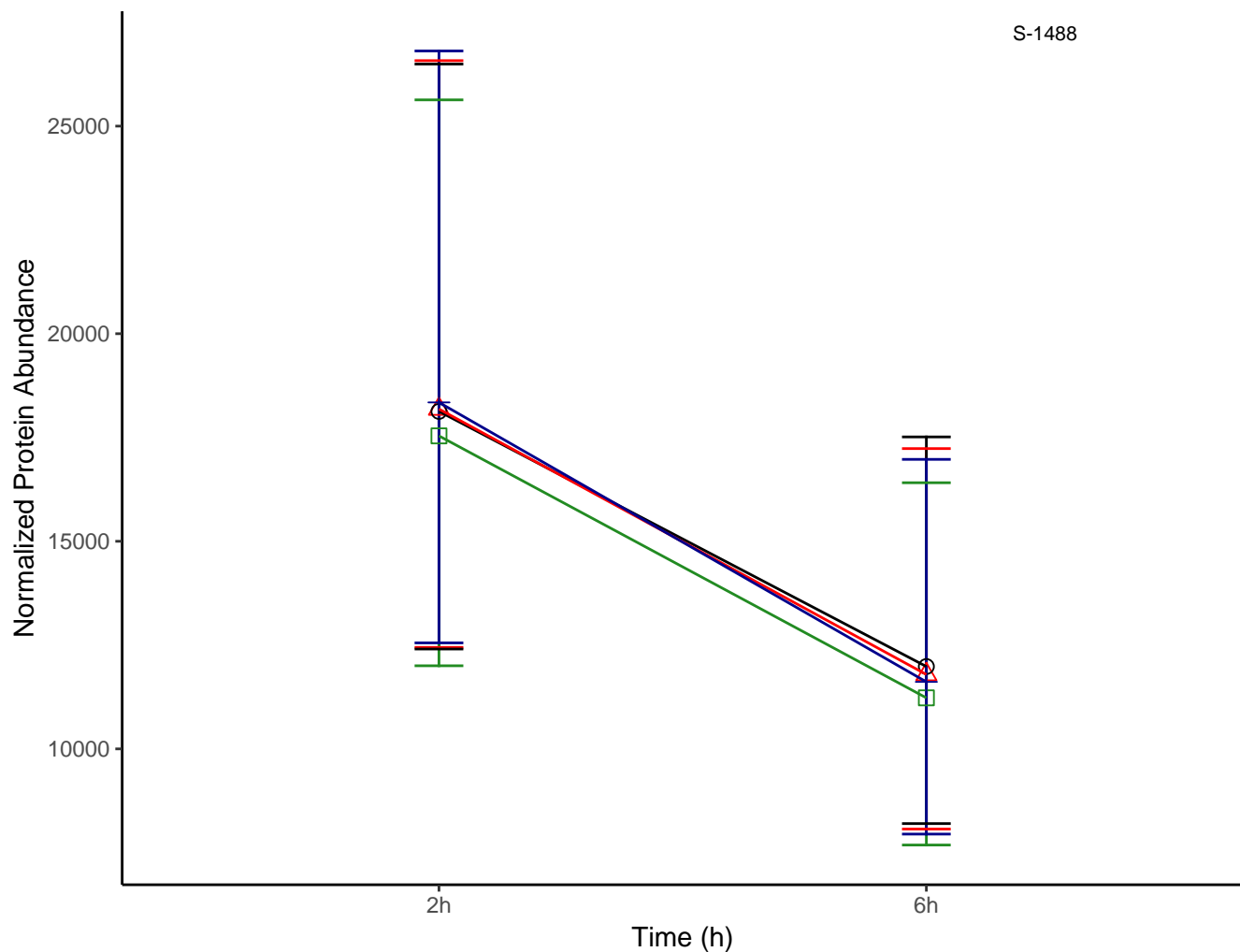
S-1487



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y2363\_STAAM

S-1488

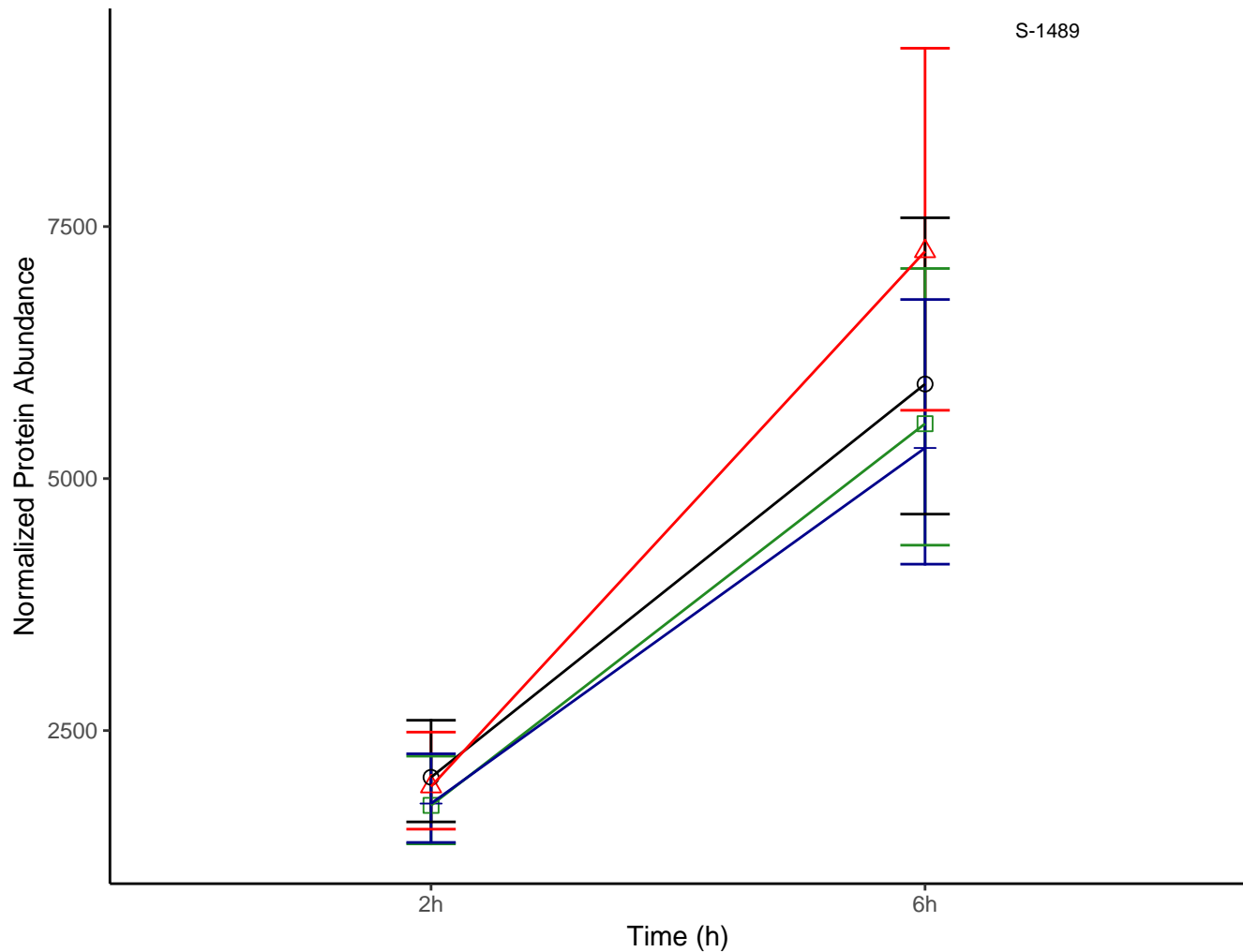


- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# Y2368\_STAAM

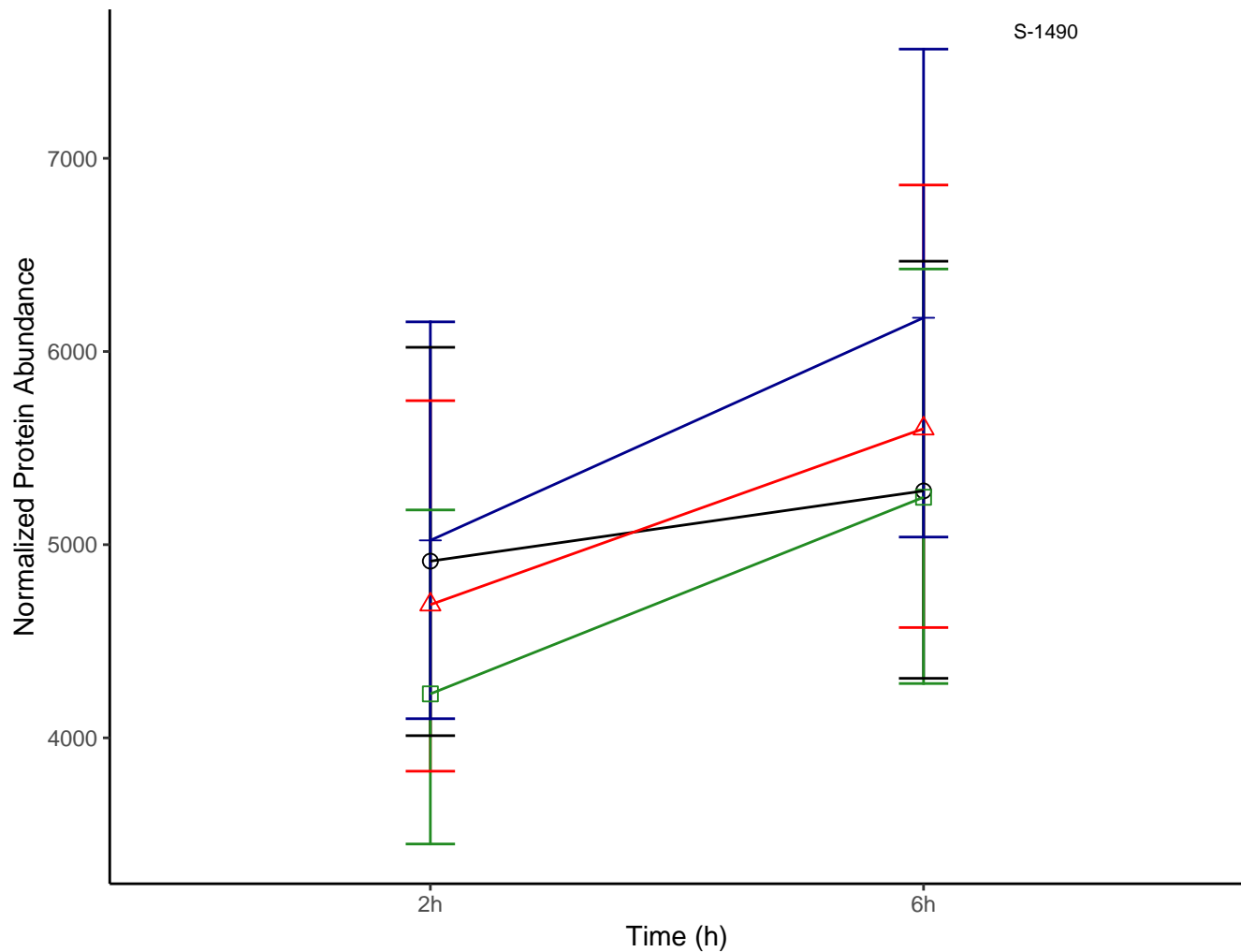
S-1489



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y2478\_STAAM

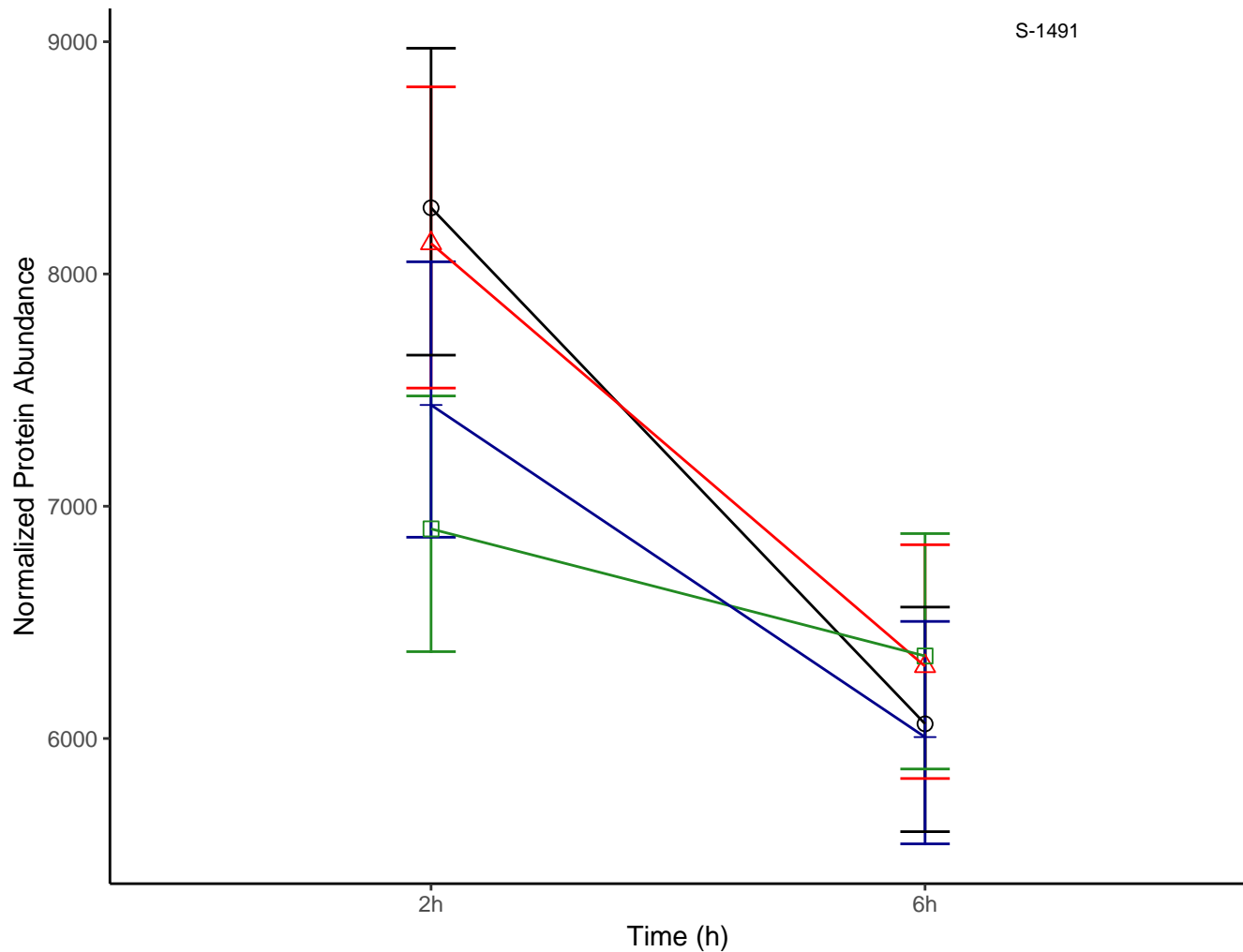
S-1490



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y2523\_STAAM

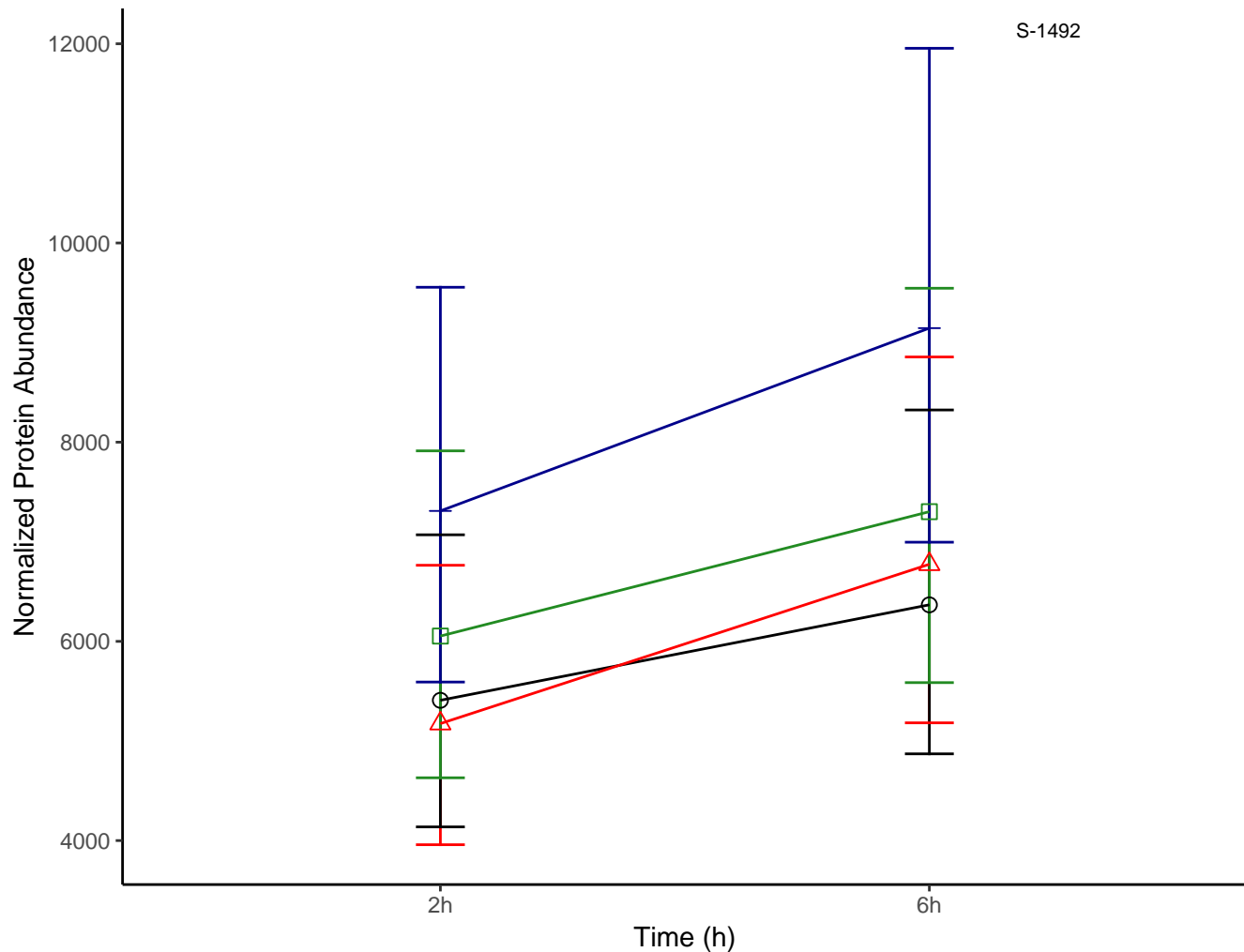
S-1491



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2573\_STAAM

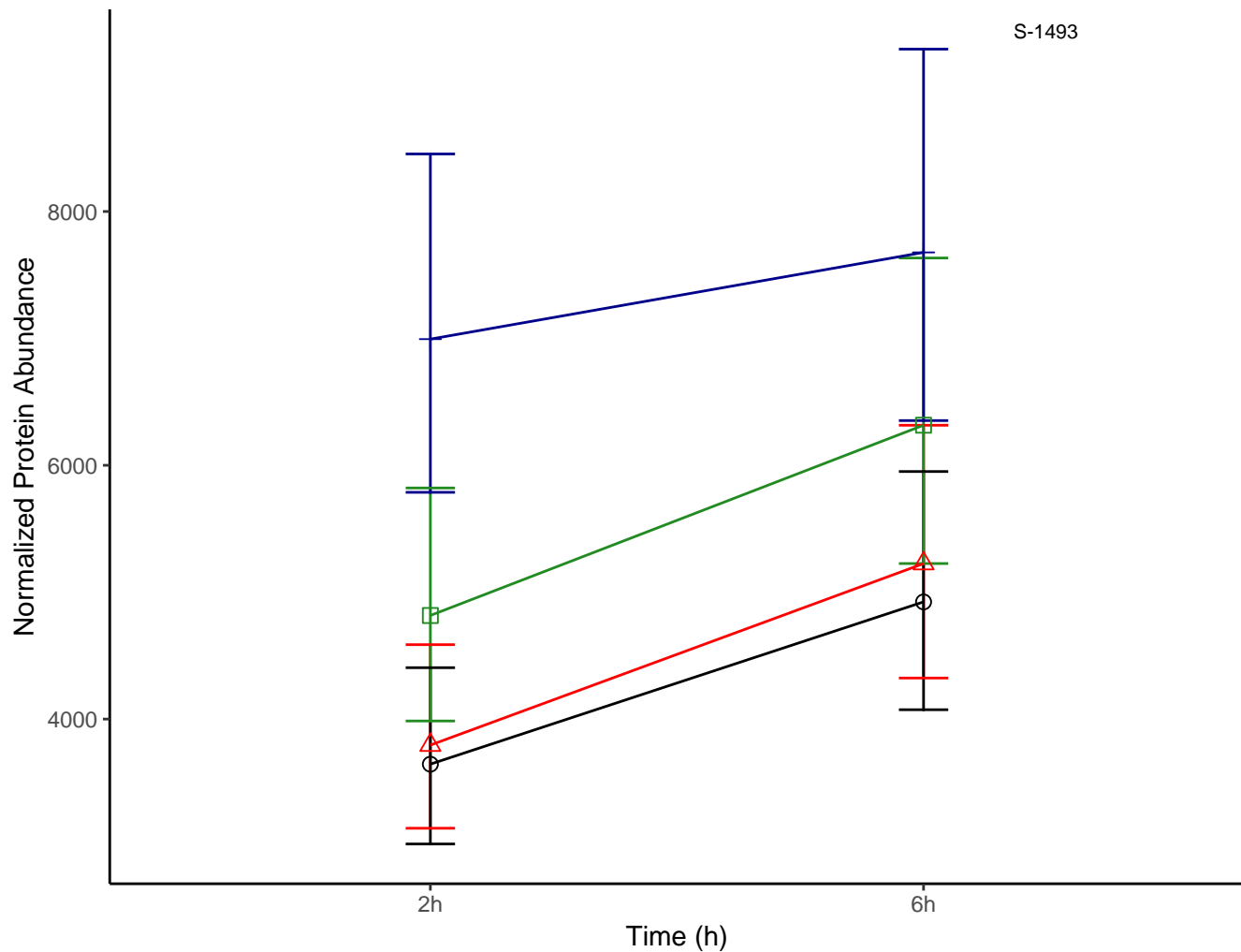
S-1492



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## Y2578\_STAAM

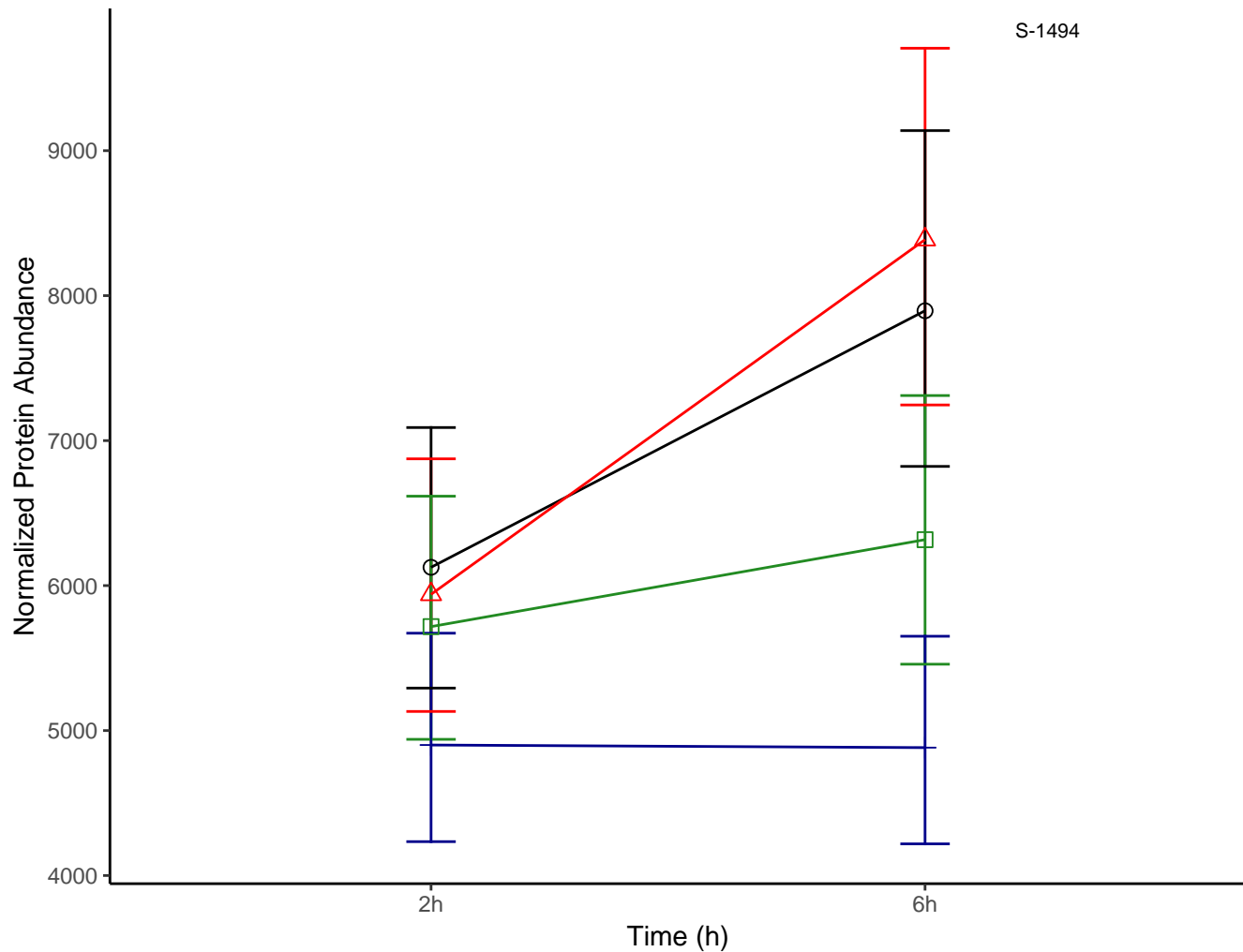
S-1493



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y2581\_STAAM

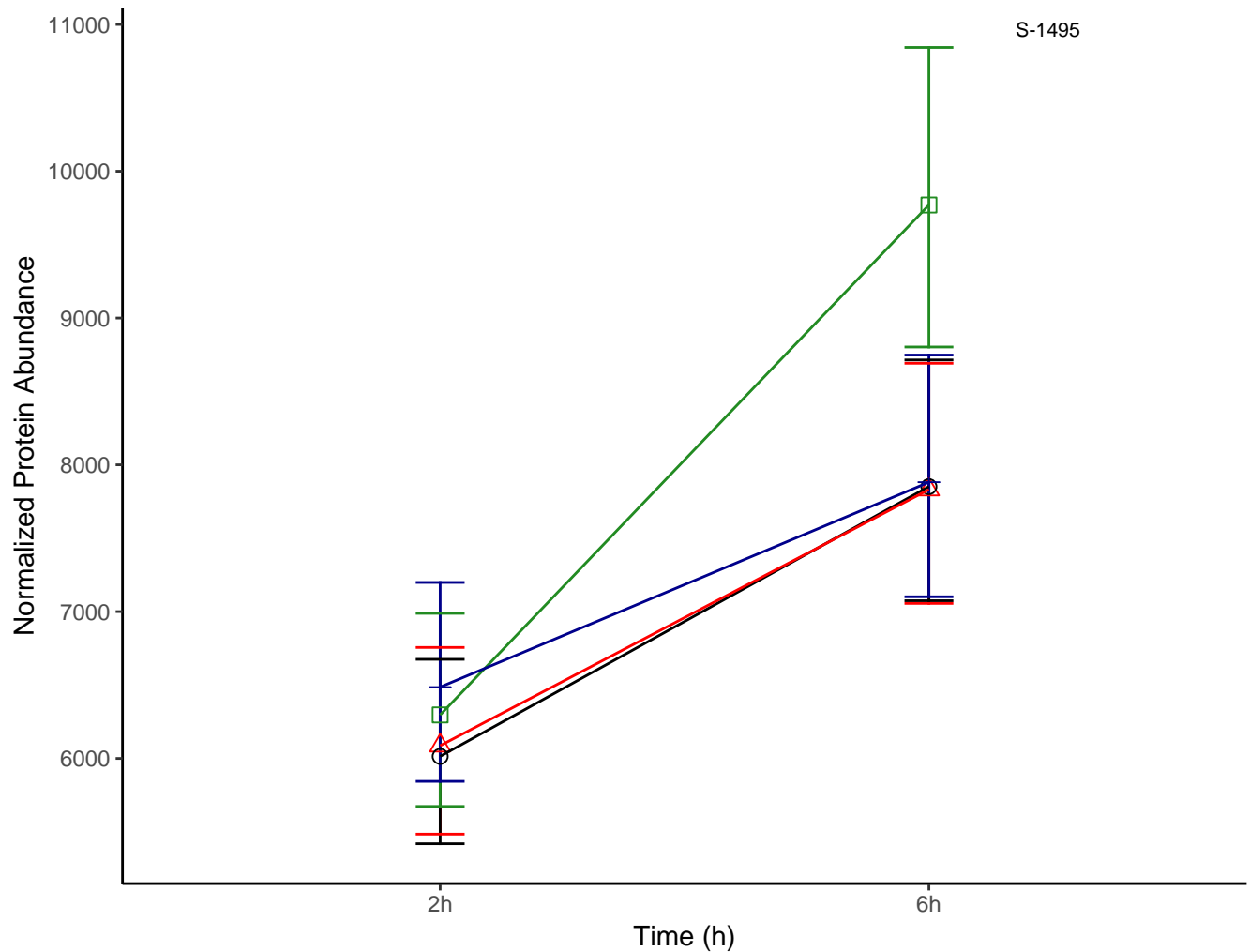
S-1494



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2627\_STAAM

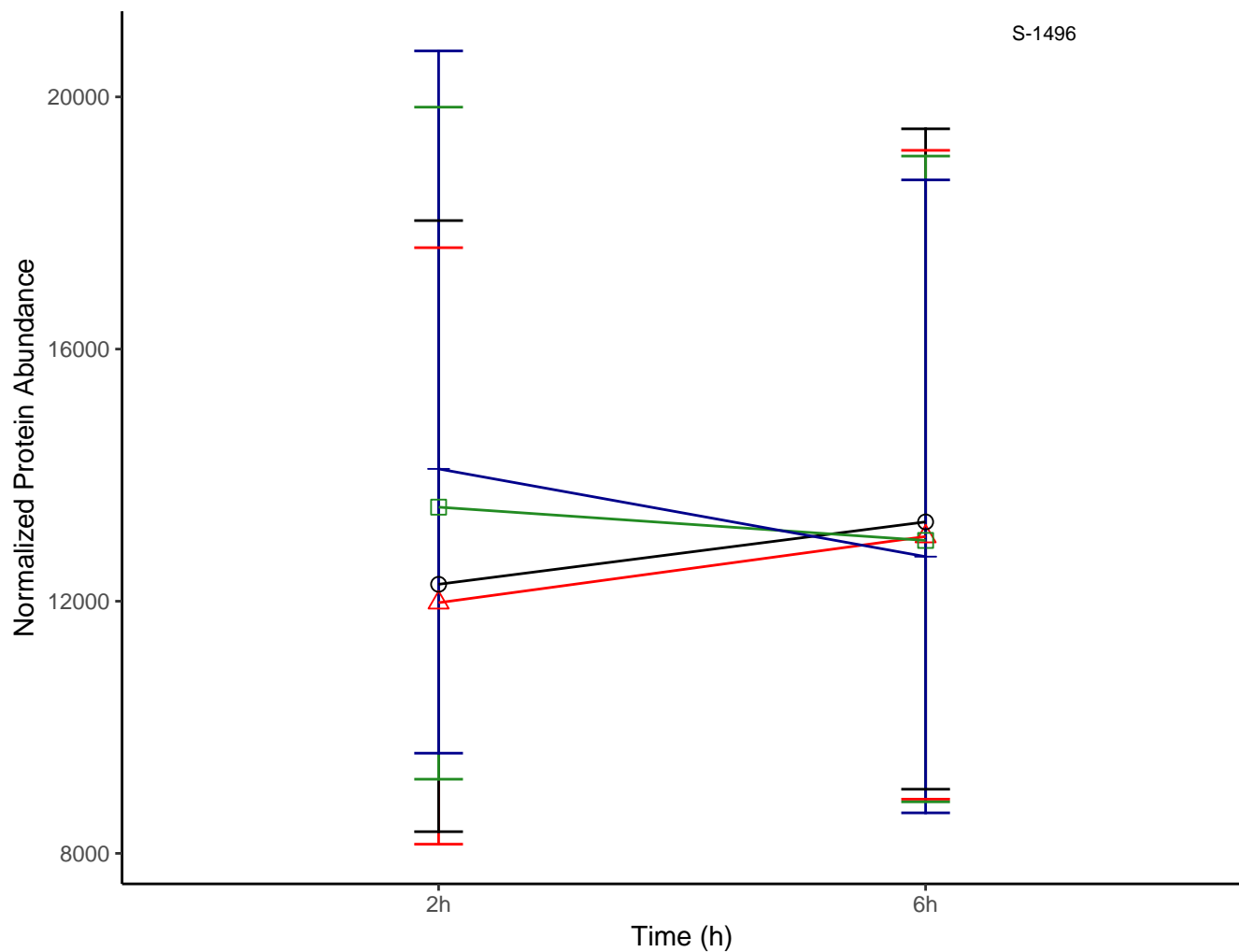
S-1495



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y2687\_STAAM

S-1496

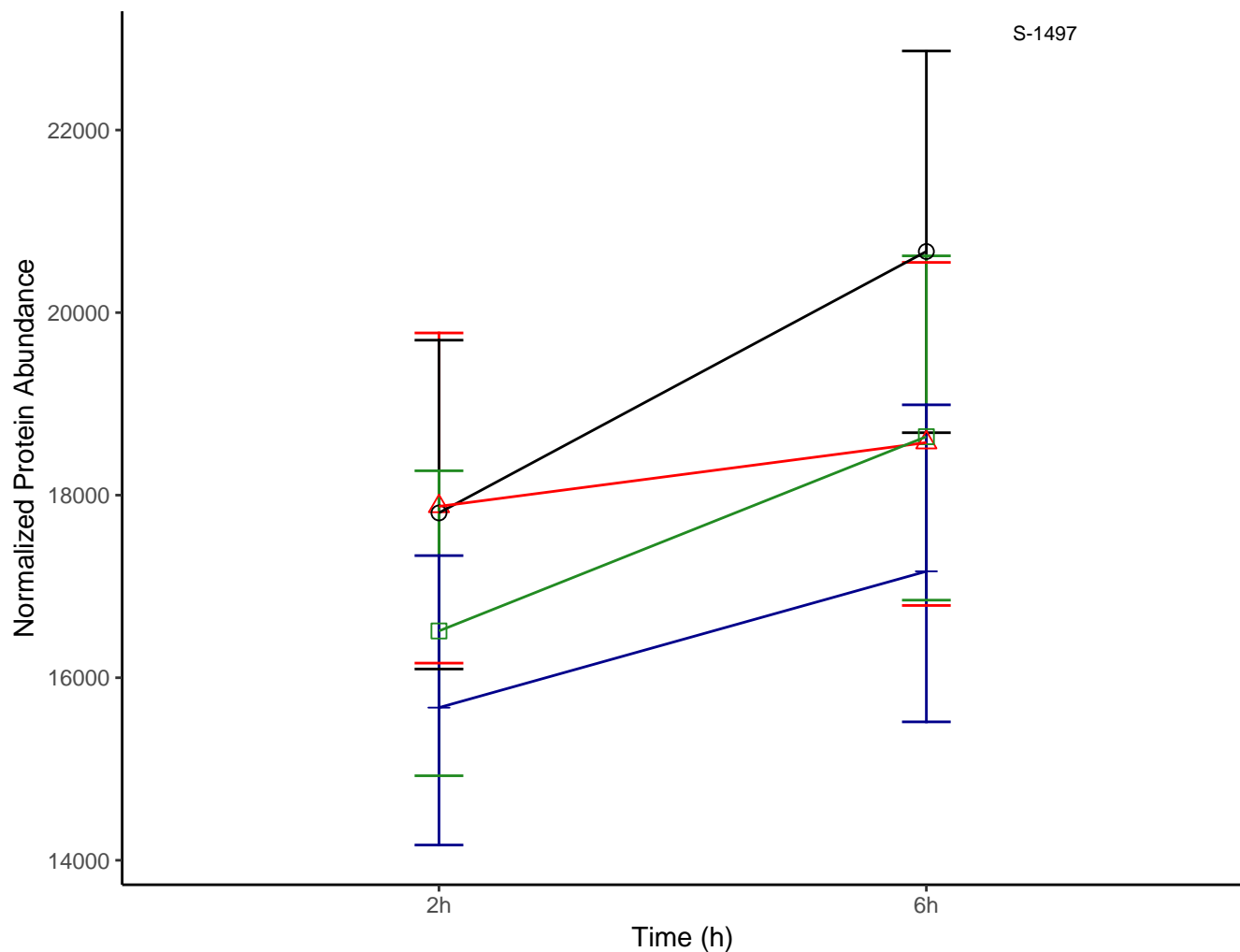


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y2689\_STAAM

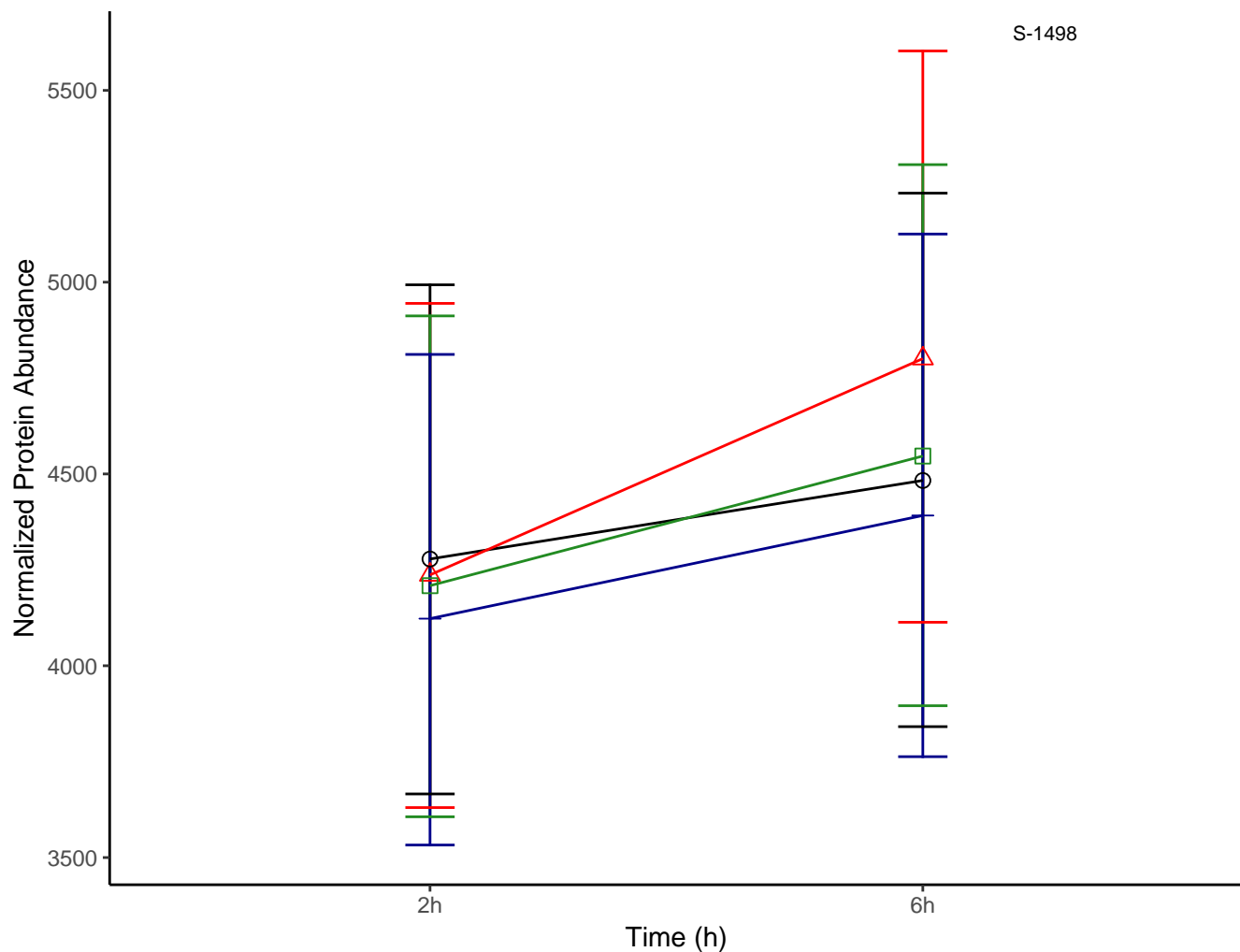
S-1497



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y385\_STAAM

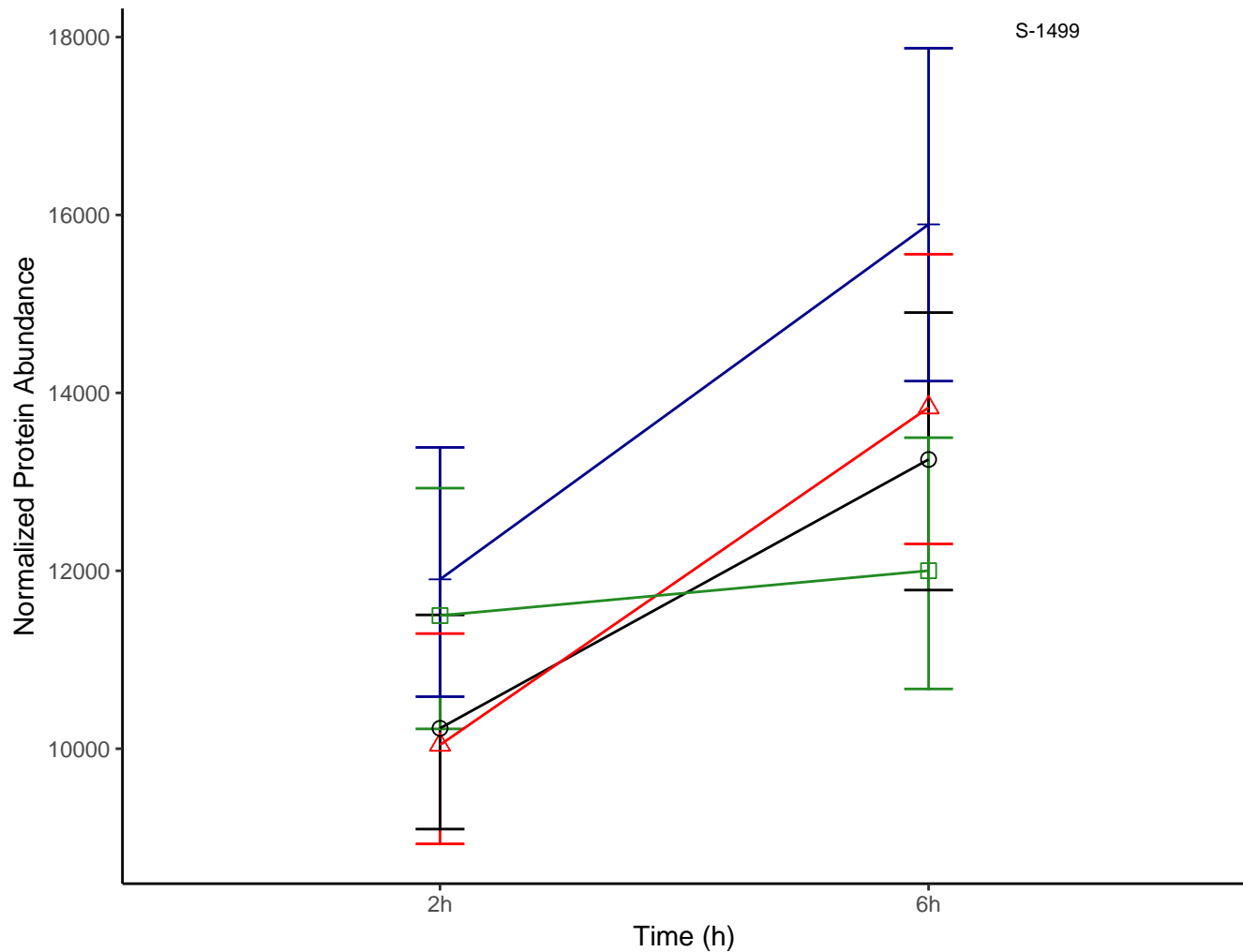
S-1498



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## Y437\_STAAM

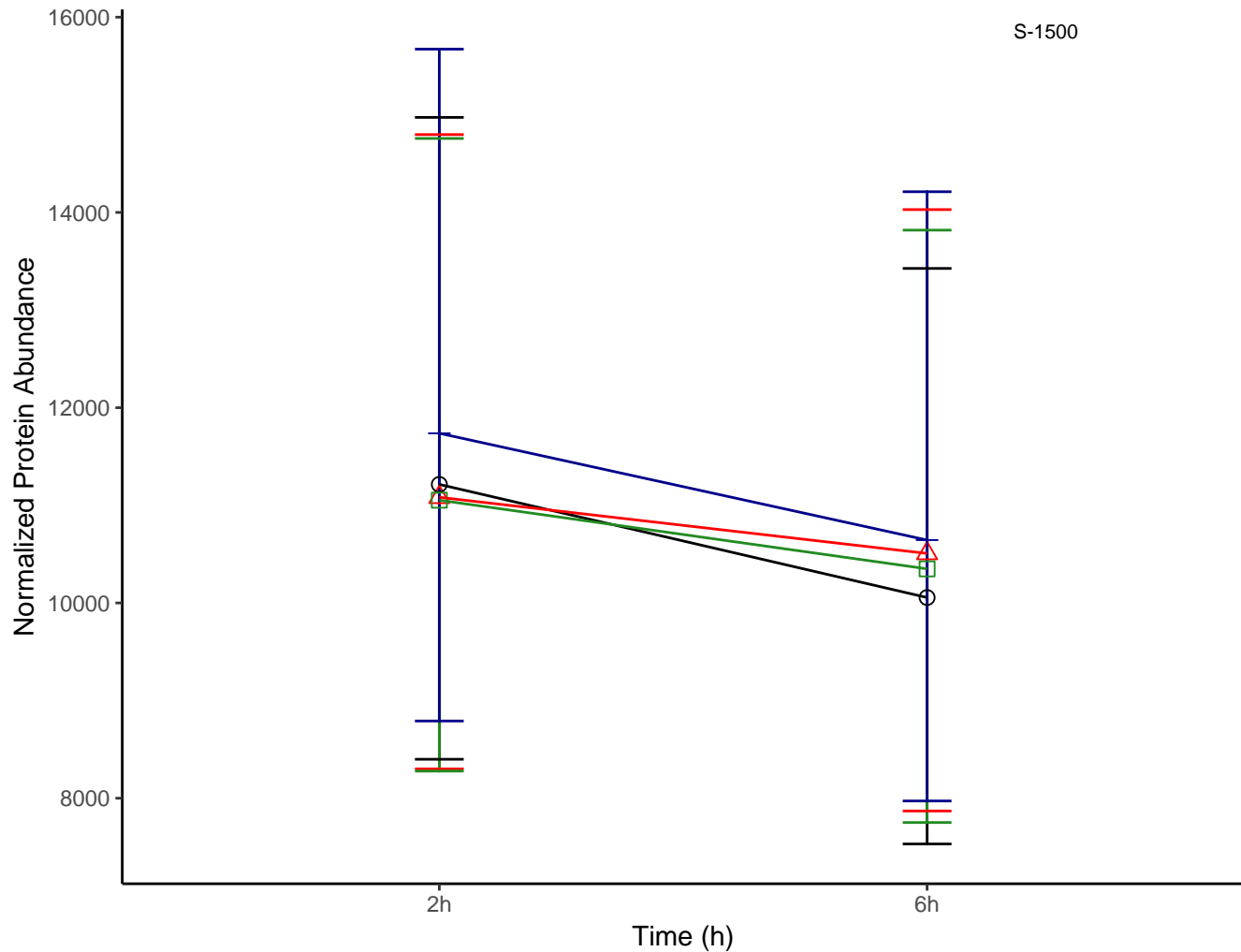
S-1499



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y479\_STAAM

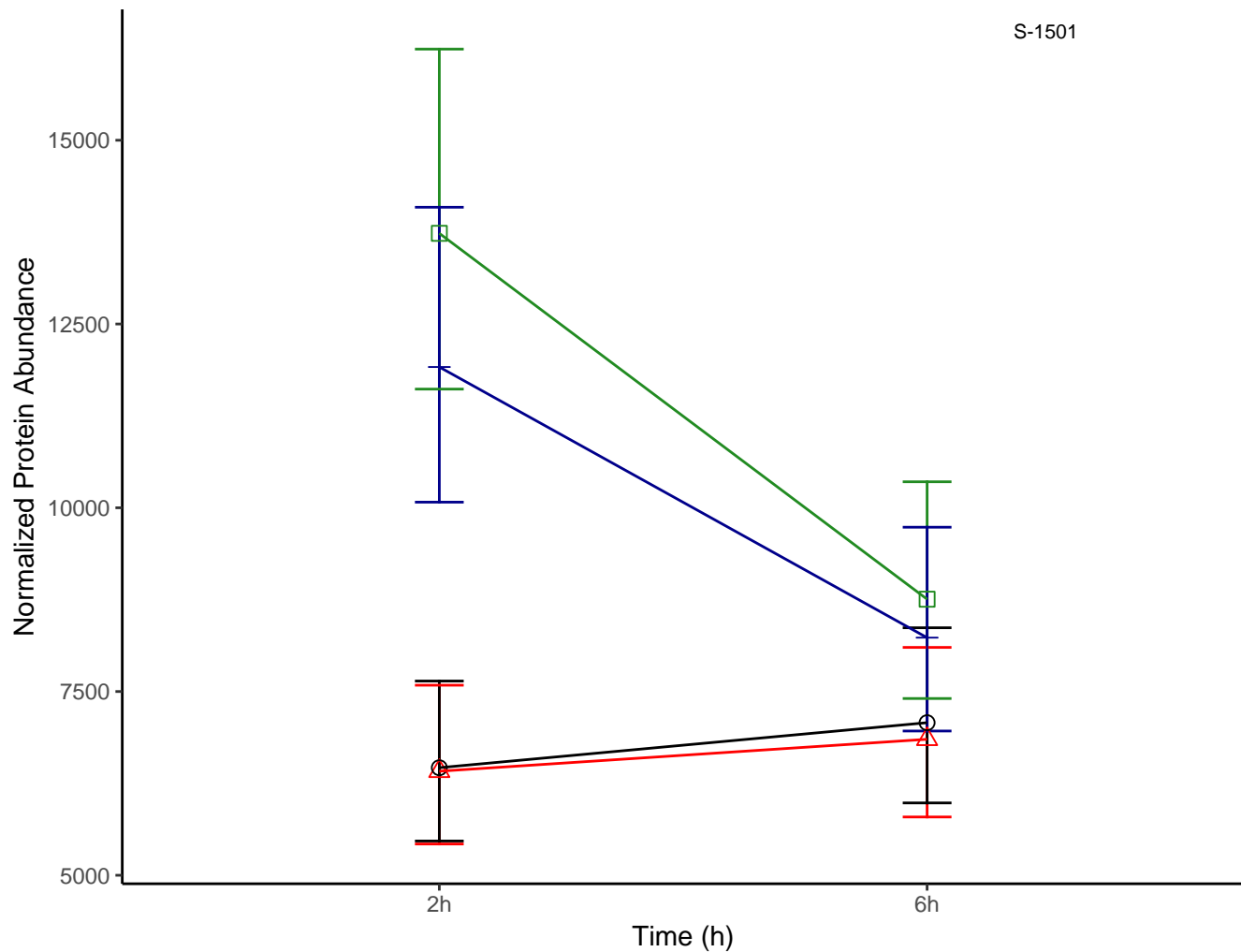
S-1500



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y553\_STAAM

S-1501



- SA564
- △ SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y587\_STAAM

S-1502

Normalized Protein Abundance

15000

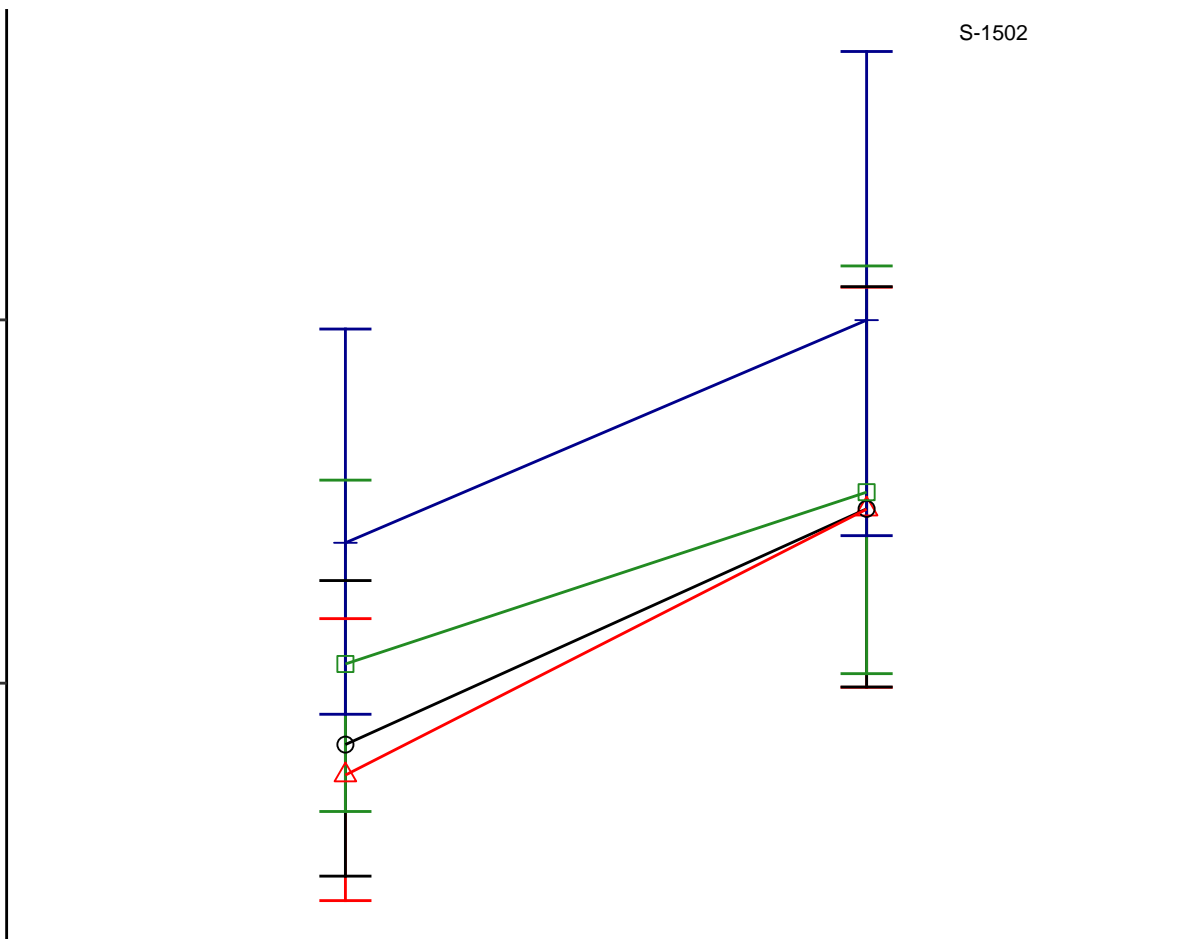
10000

2h

6h

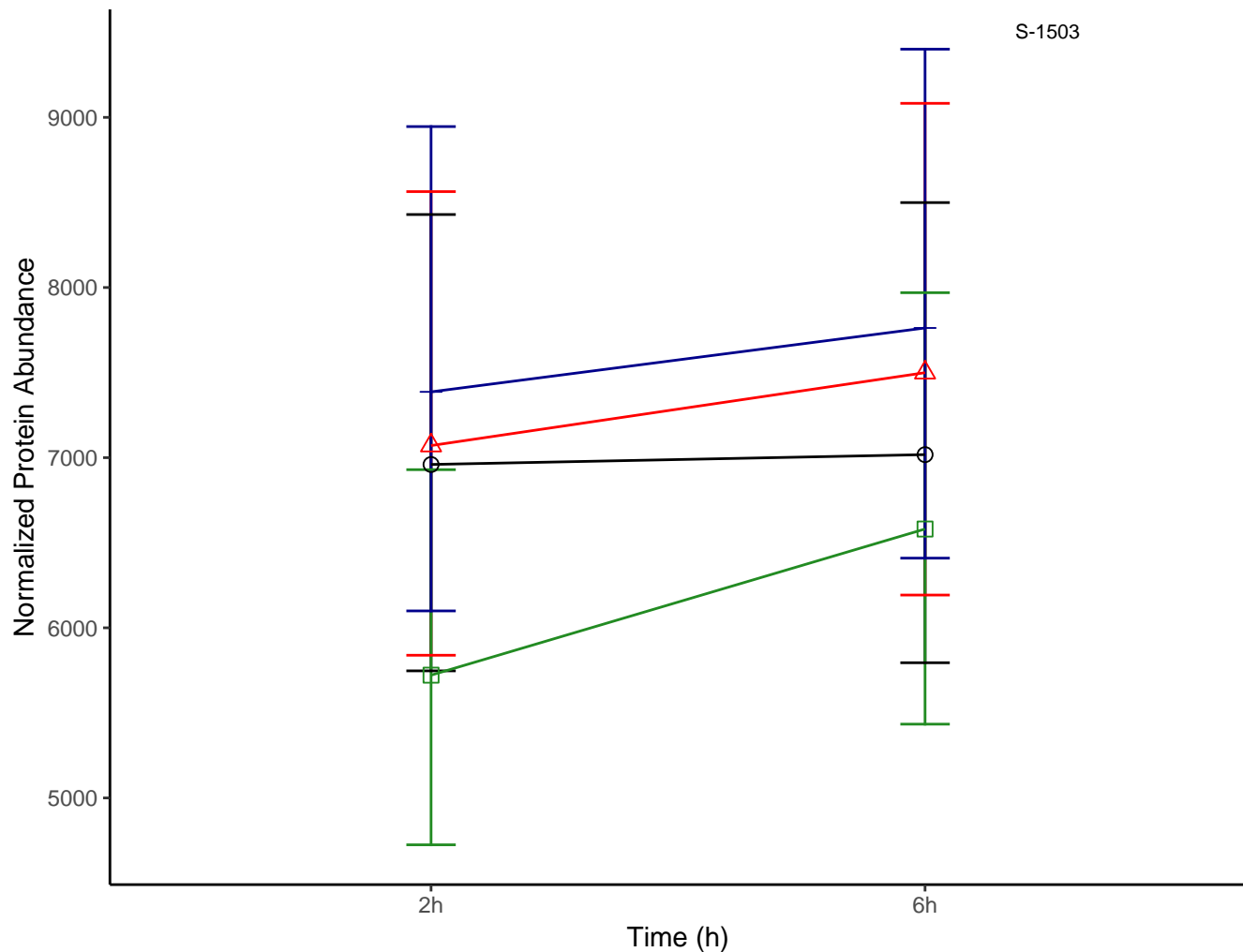
Time (h)

- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y669\_STAAM

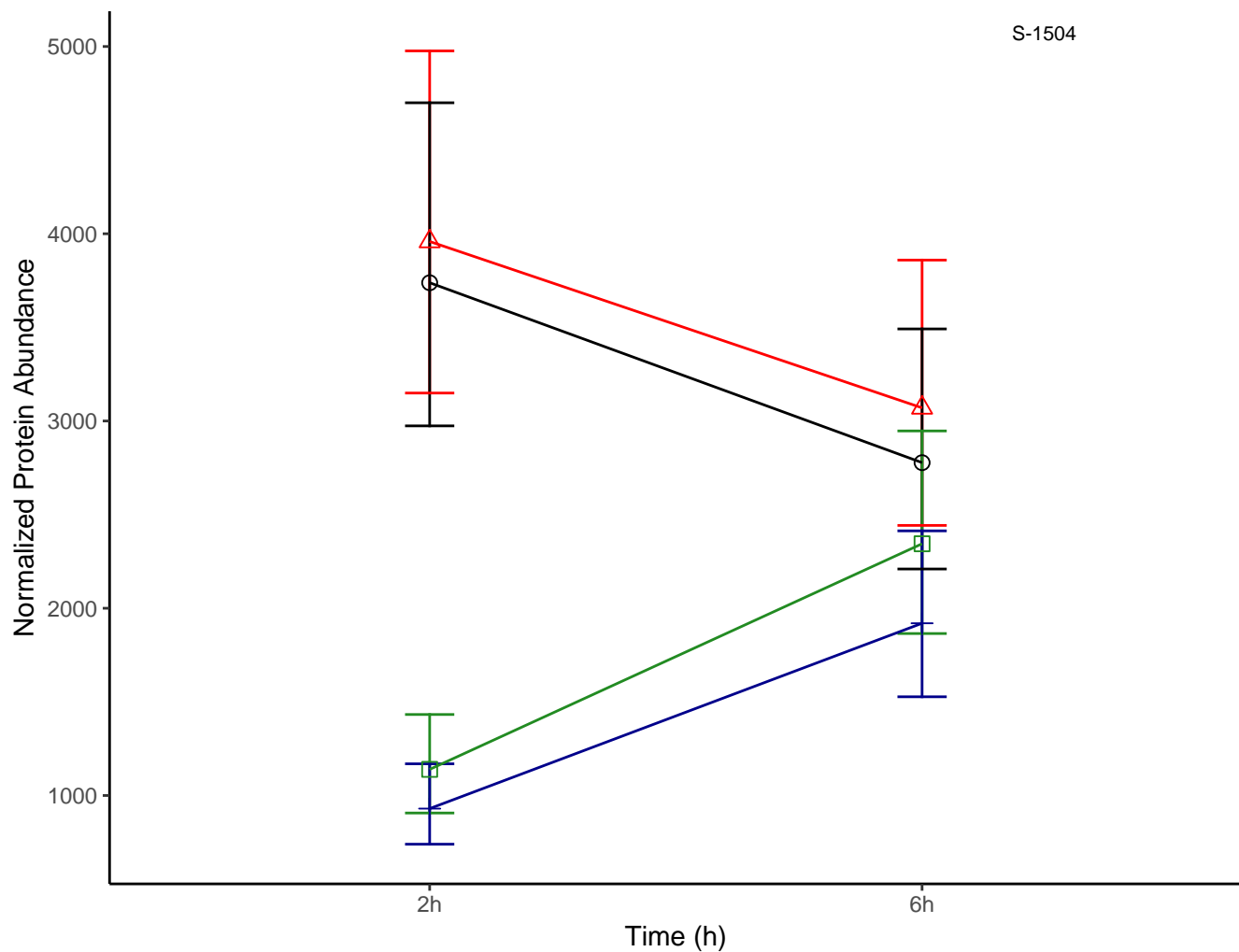
S-1503



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y752\_STAAM

S-1504

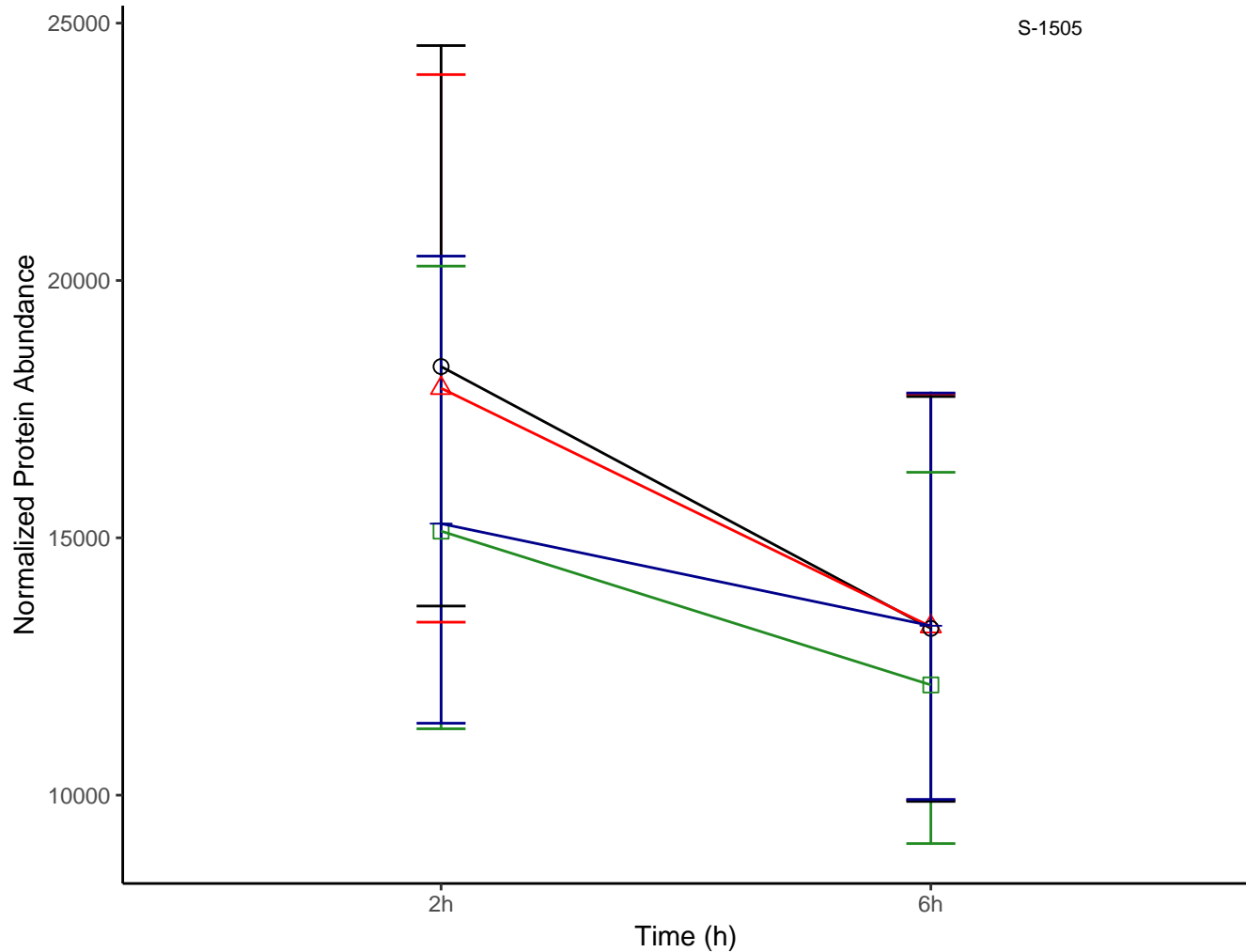


- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



# Y765\_STAAM

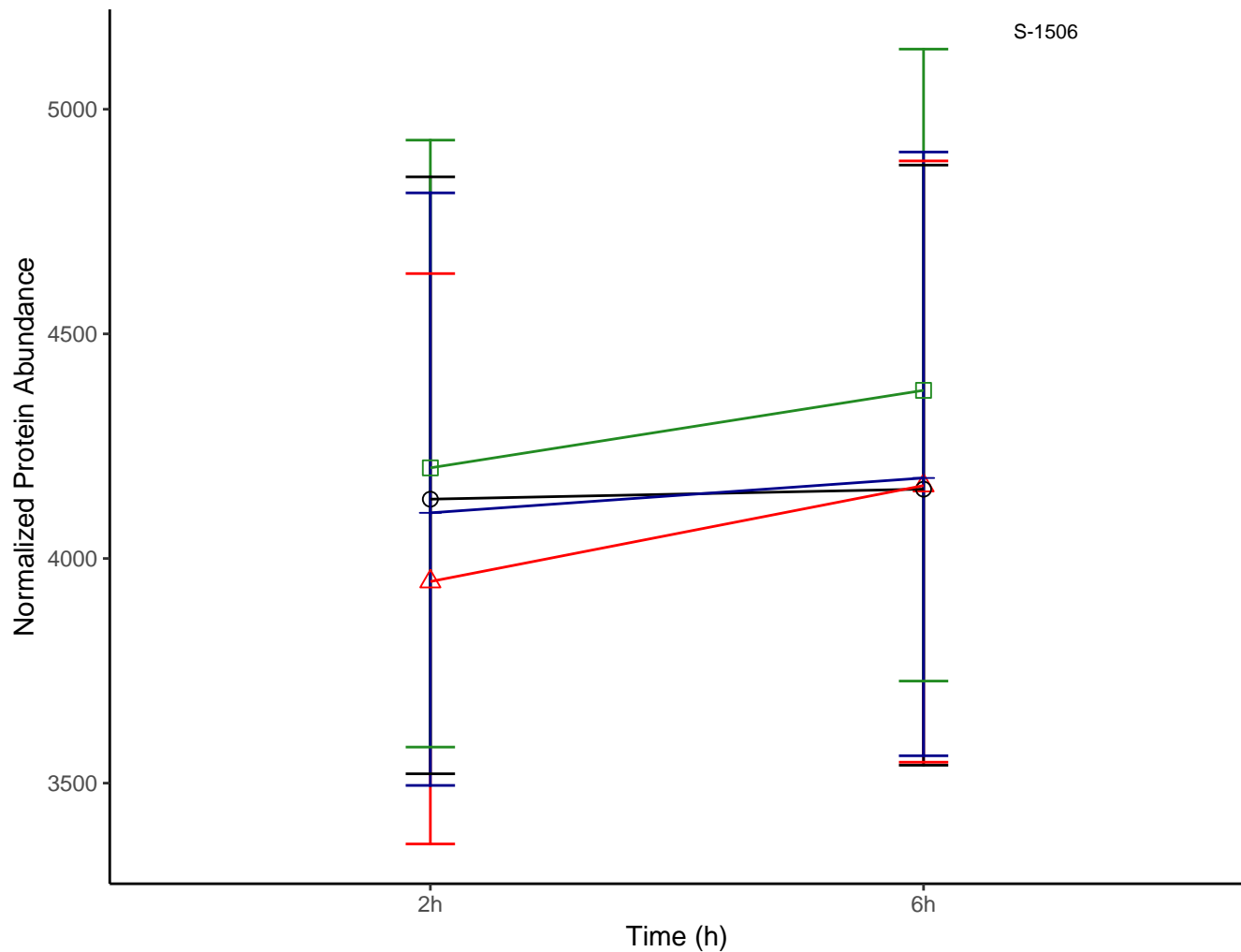
S-1505



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- ⊕ SA564- $\Delta hptRS/ccpA$

# Y769\_STAAM

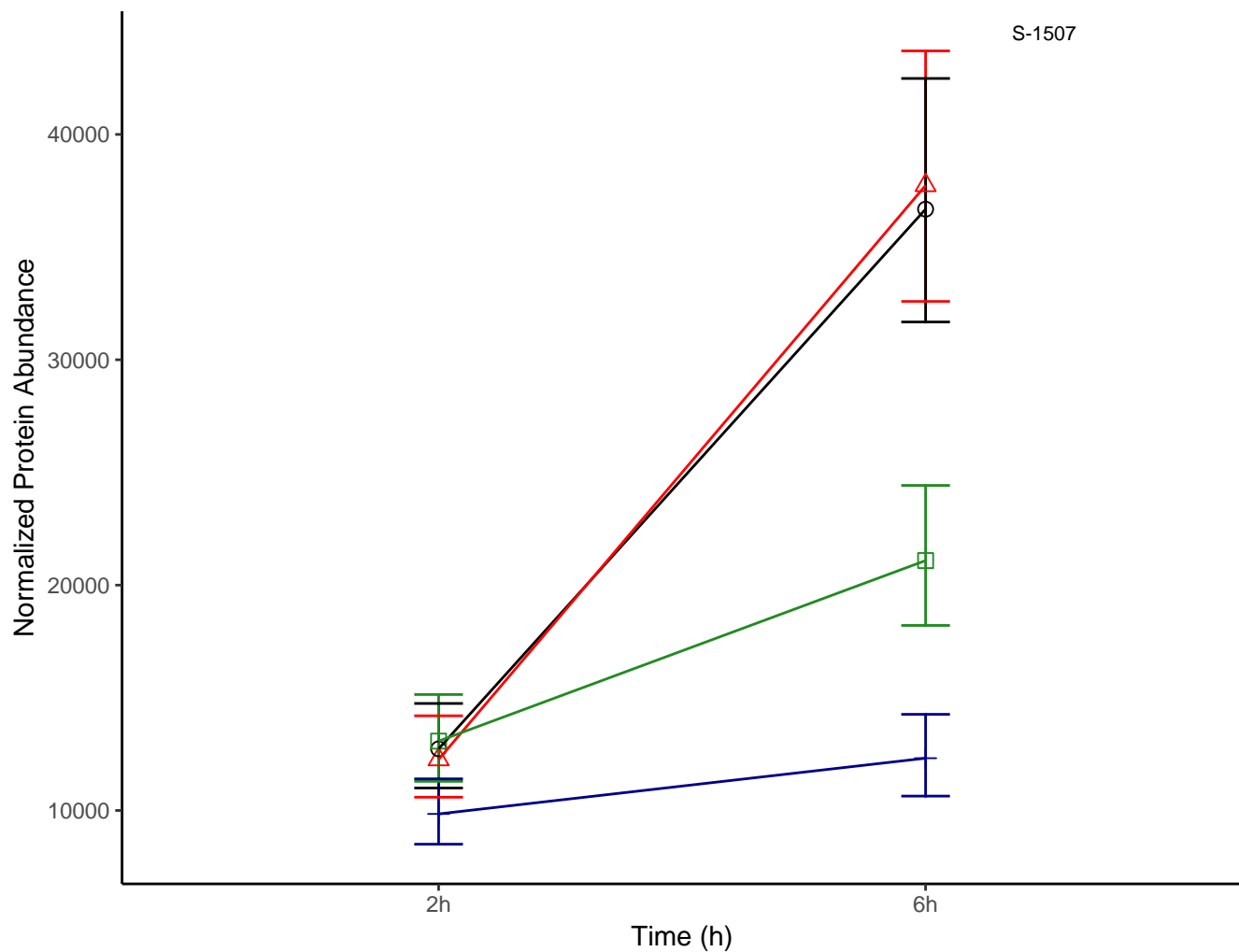
S-1506



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y840\_STAAM

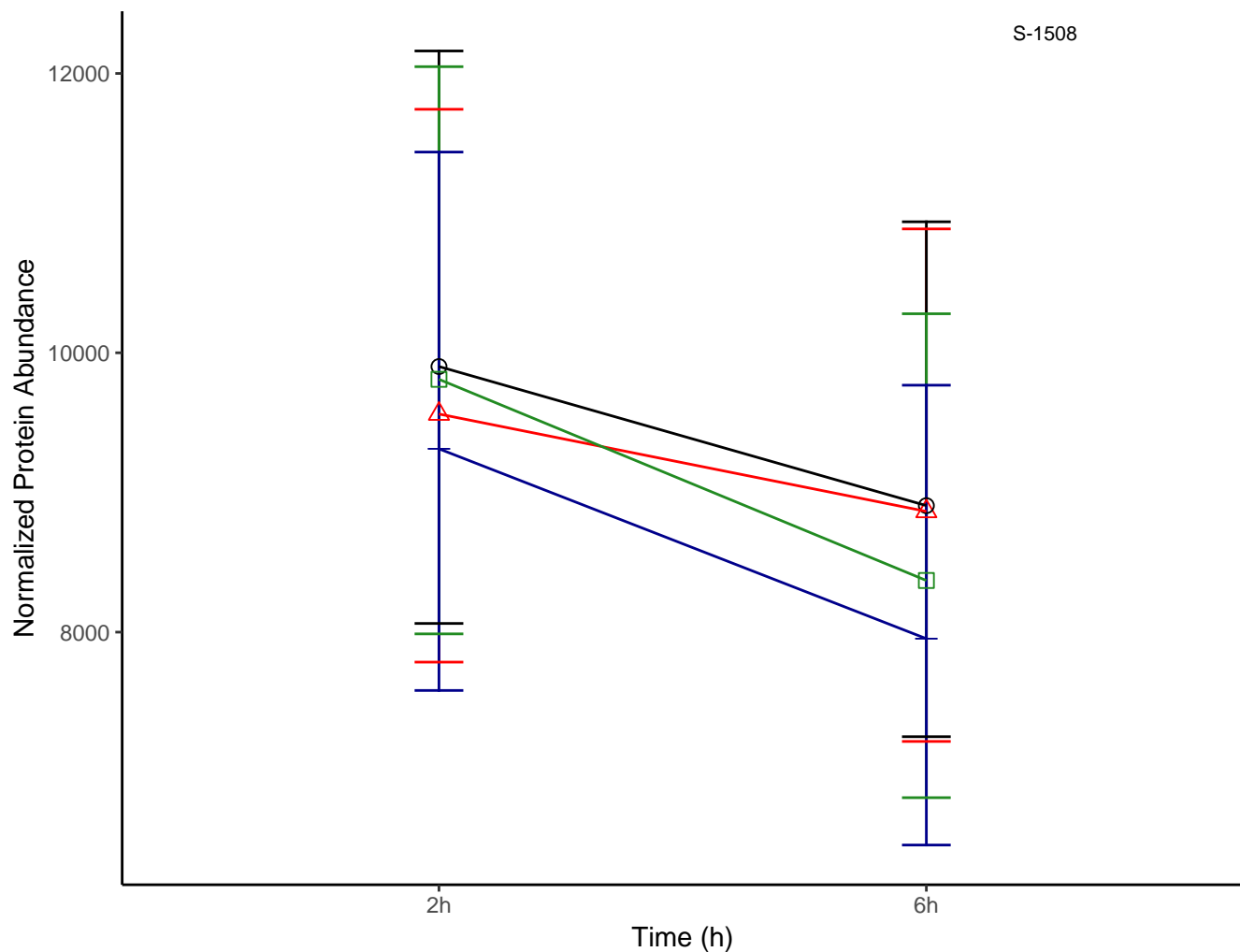
S-1507



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y846\_STAAM

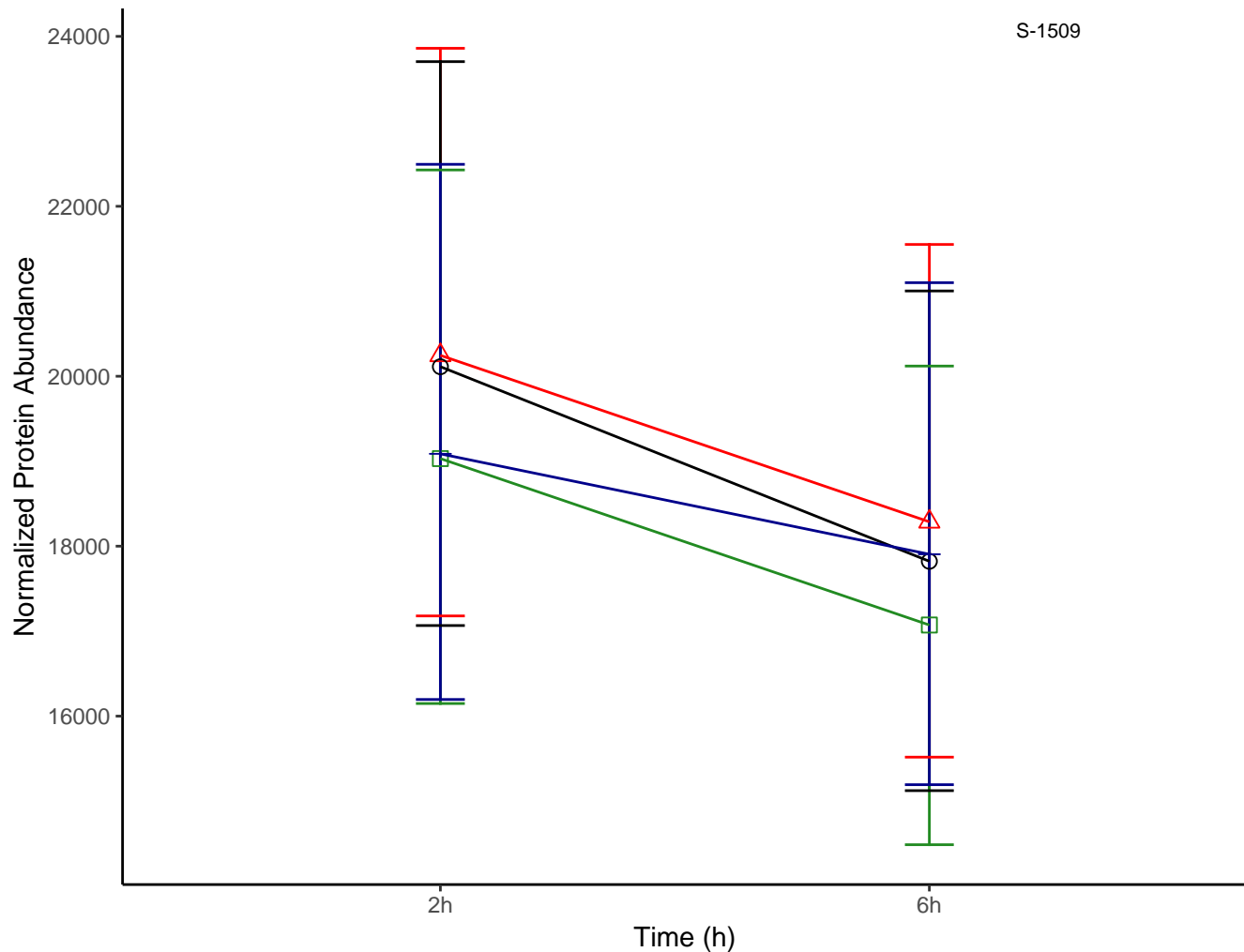
S-1508



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

## Y941\_STAAM

S-1509



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# Y968\_STAAM

S-1510

Normalized Protein Abundance

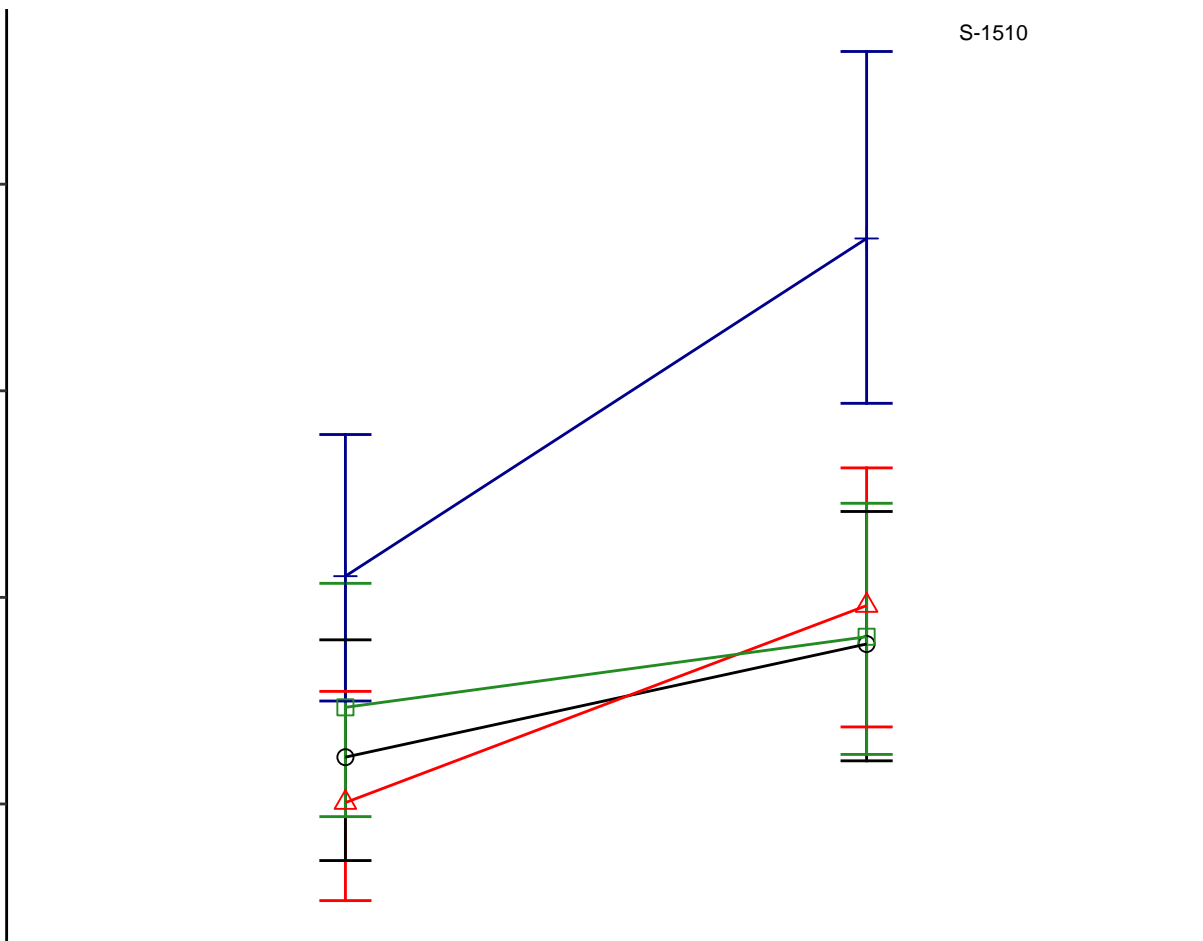
17500  
15000  
12500  
10000

2h

6h

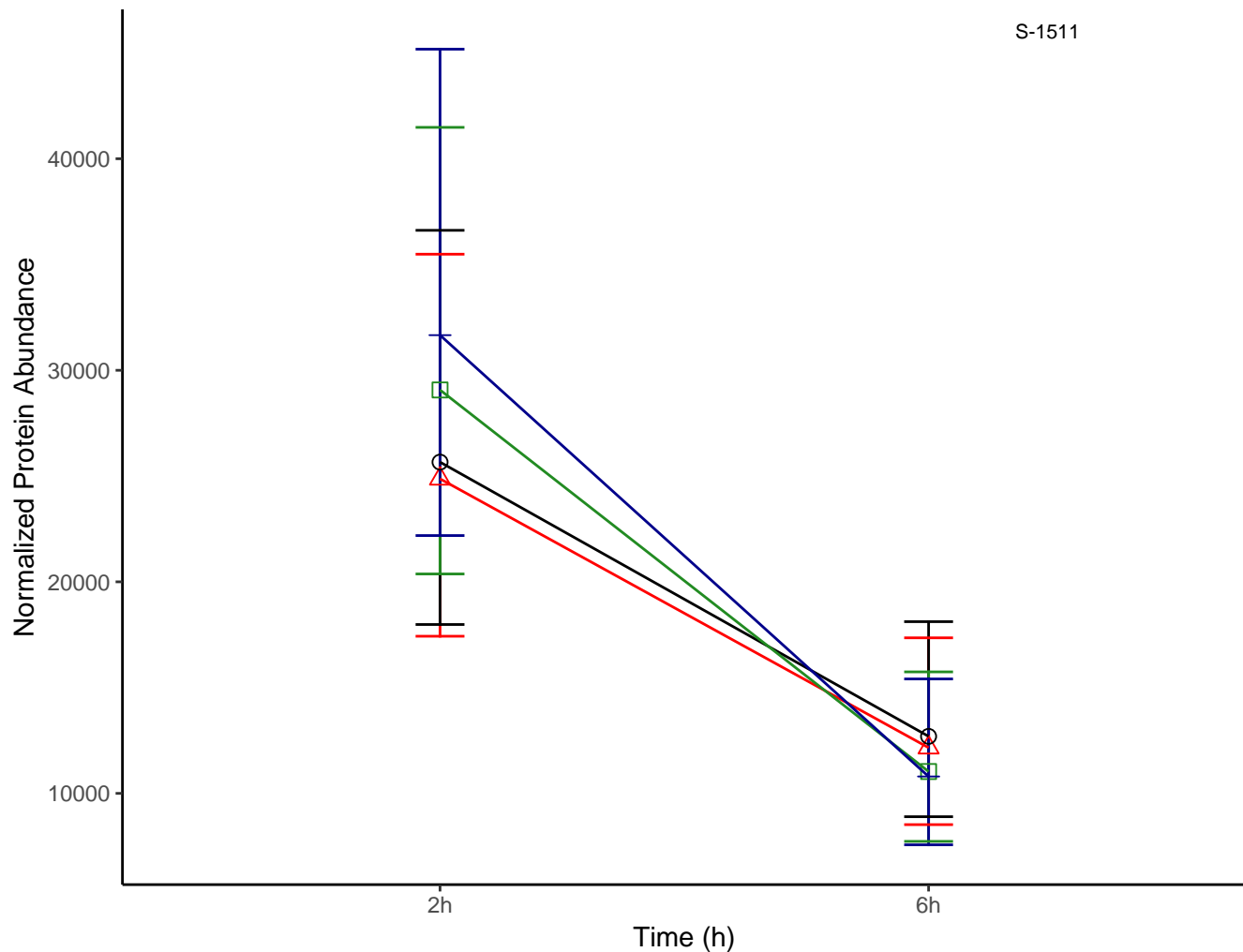
Time (h)

- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$



# YABA\_STAAM

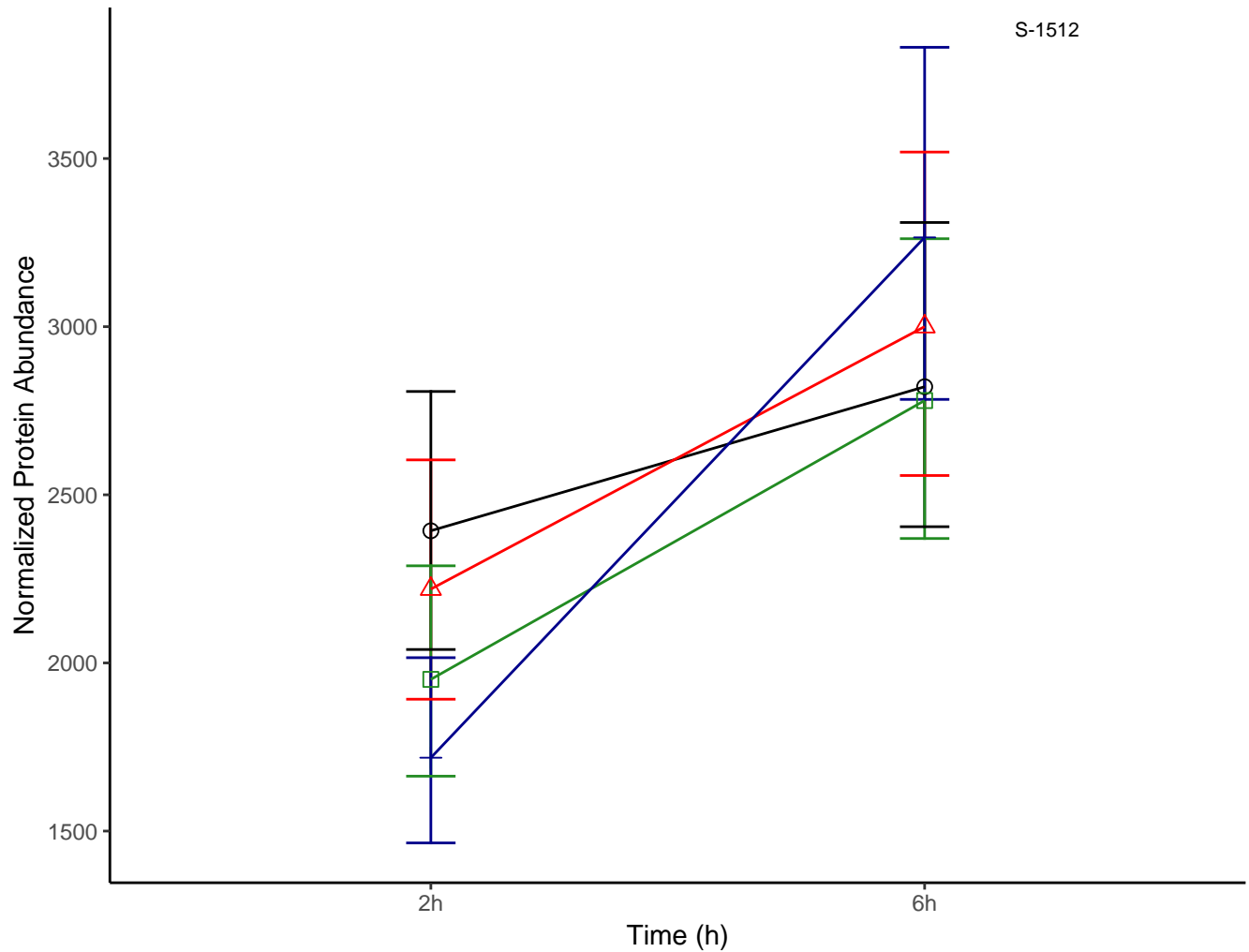
S-1511



- SA564
- △ SA564- $\Delta hptRS$
- SA564- $\Delta ccpA$
- + SA564- $\Delta hptRS/ccpA$

# YBEY\_STAAM

S-1512



- SA564
- △ SA564- $\Delta$ *hptRS*
- SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*



**Figure I.**

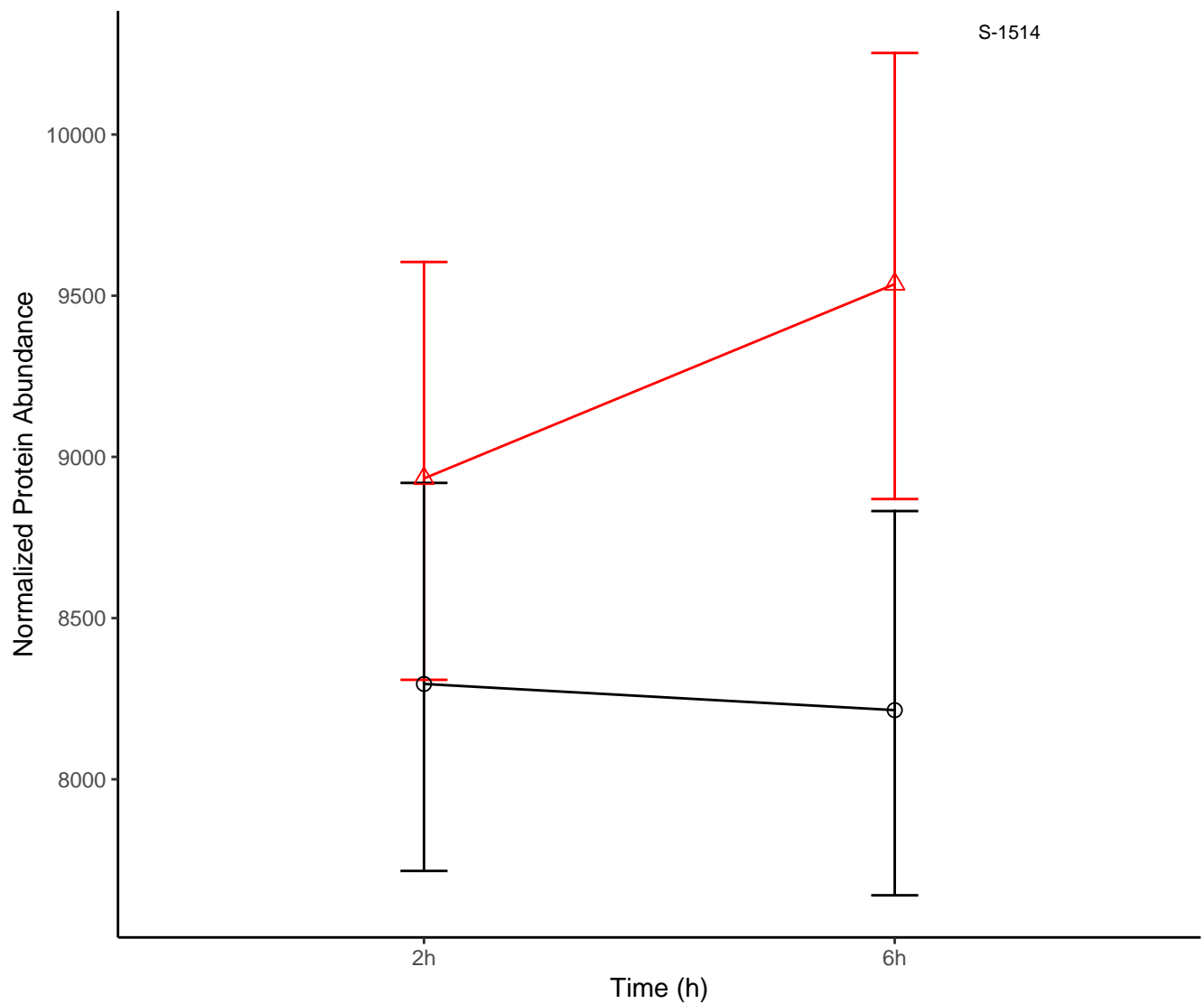
2-way analysis: m x h | s

Pages: S1513-S2014

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if a 3-way interaction was rejected and 2-way interaction was identified between media and hour.

# 6PGD\_STAAM

S-1514

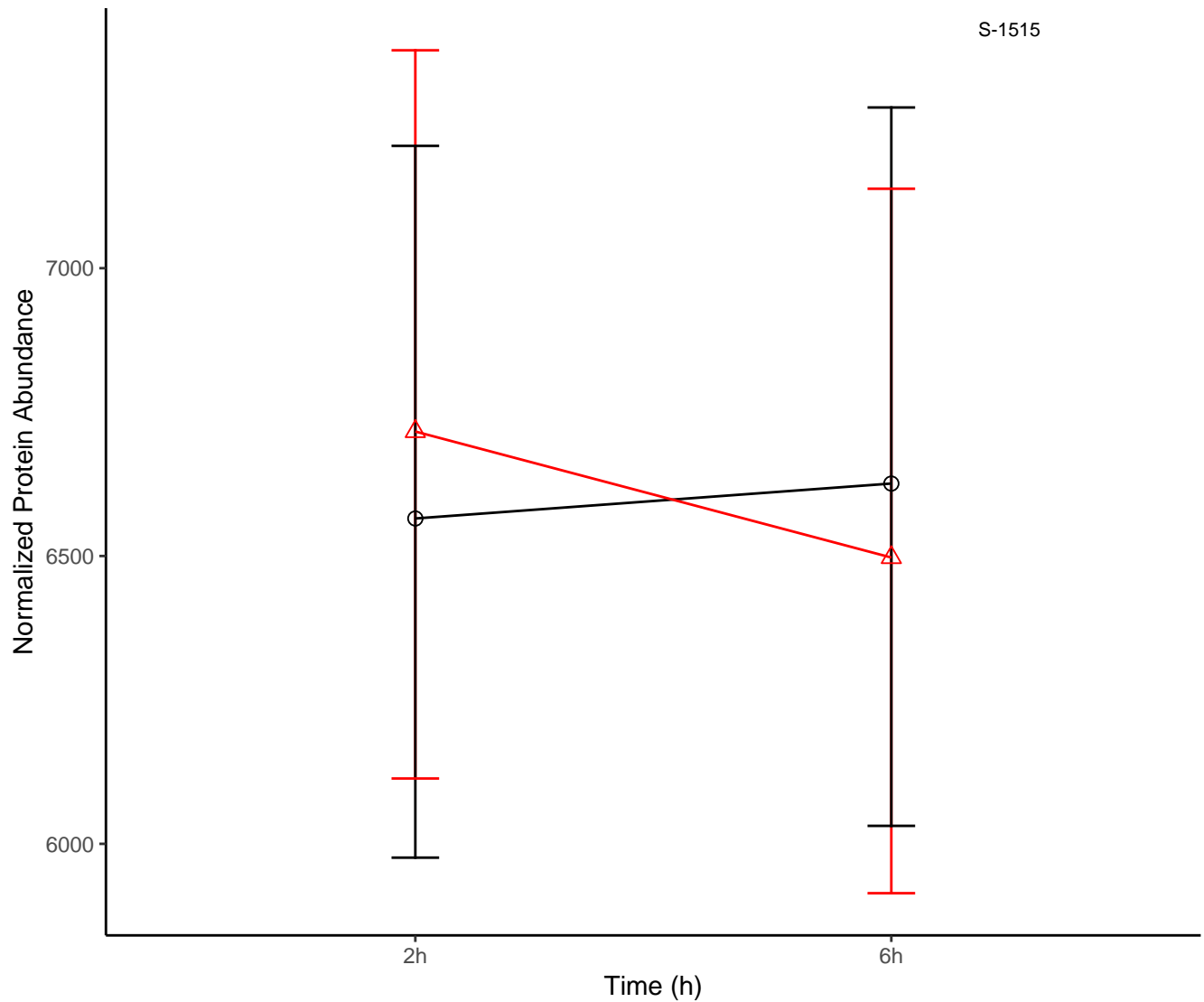


○ TSB-dex

△ TSB

# ACCA\_STAAM

S-1515

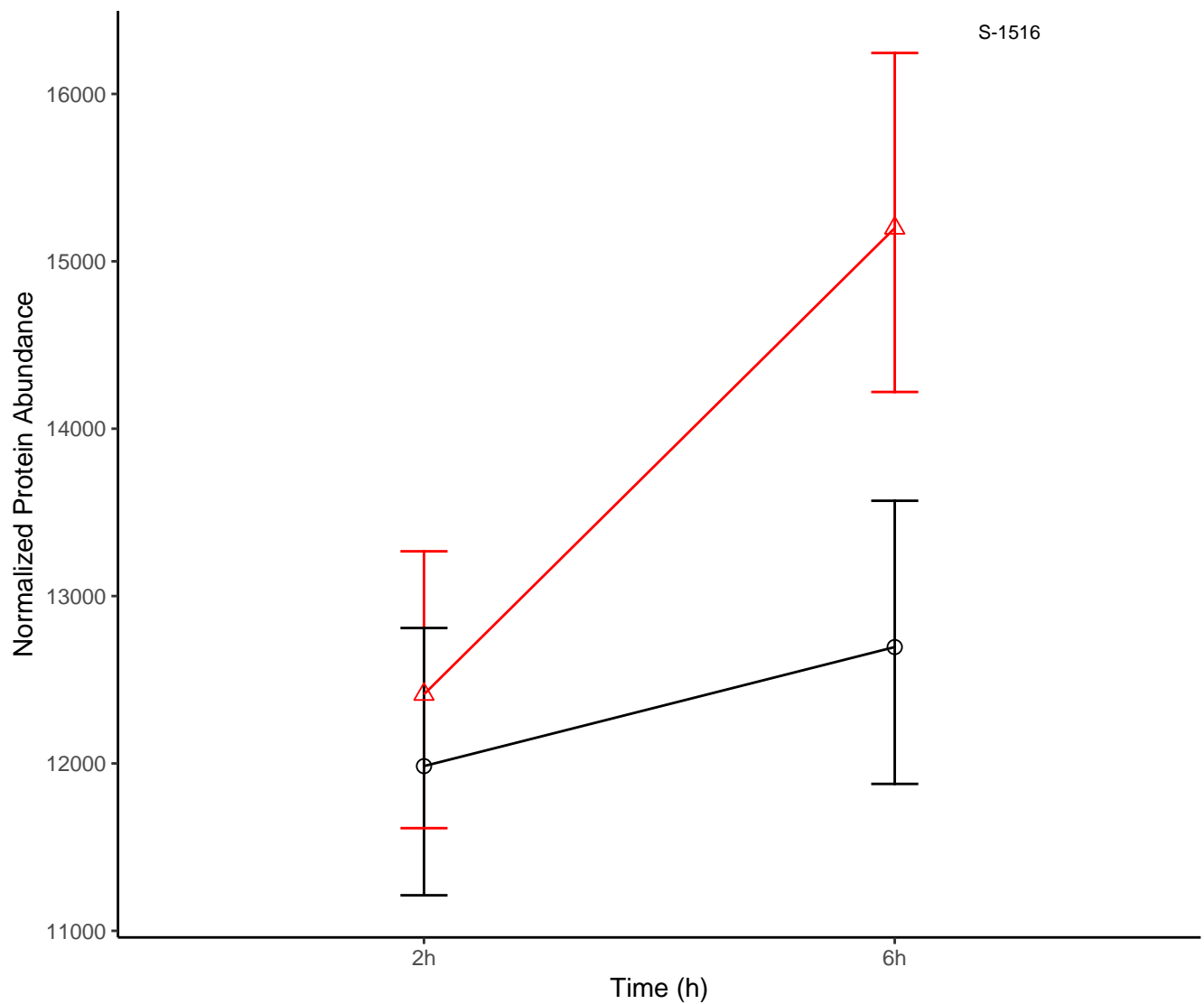


○ TSB-dex

△ TSB

# ACKA\_STAAM

S-1516

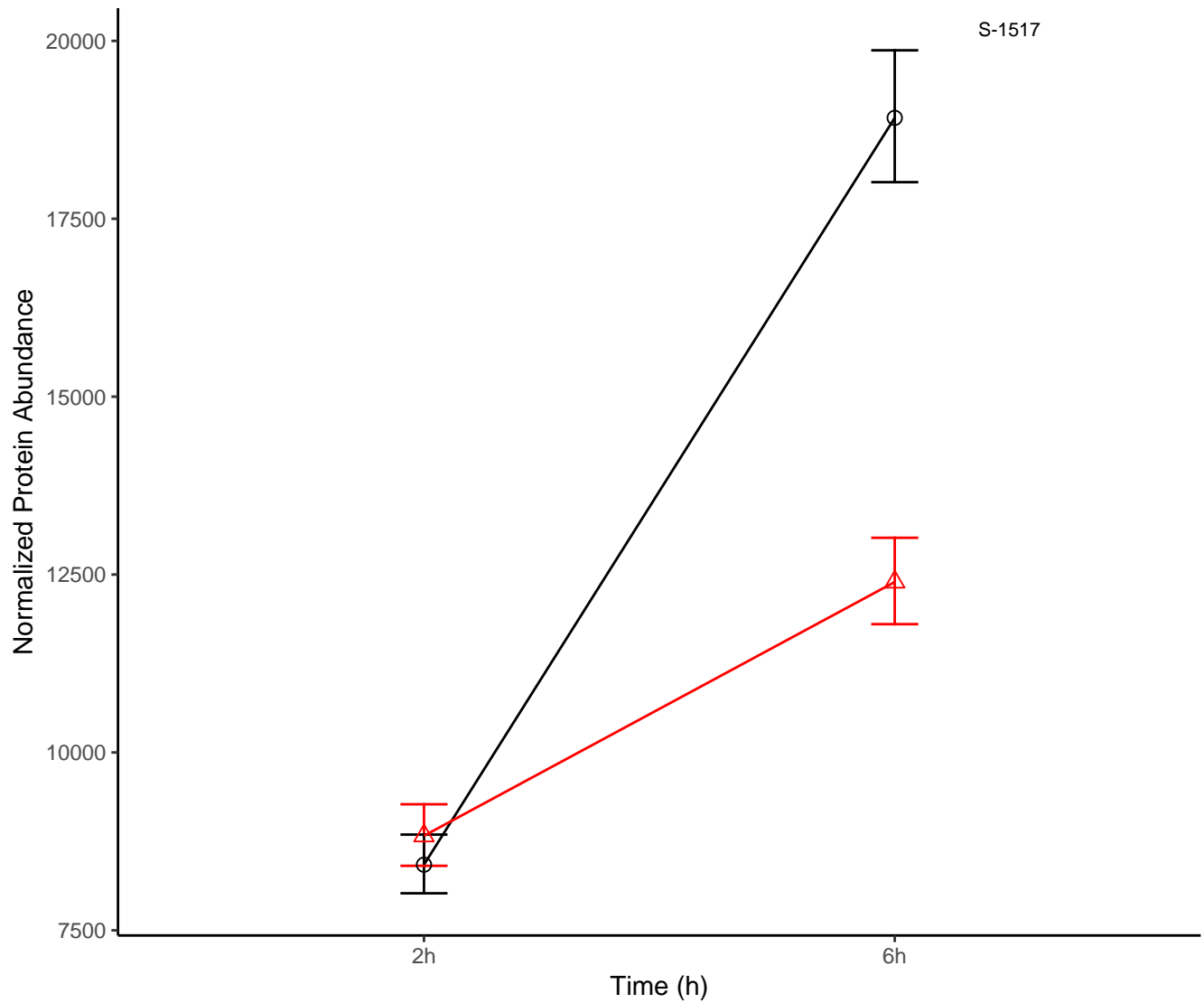


○ TSB-dex

△ TSB

# ACON\_STAAM

S-1517

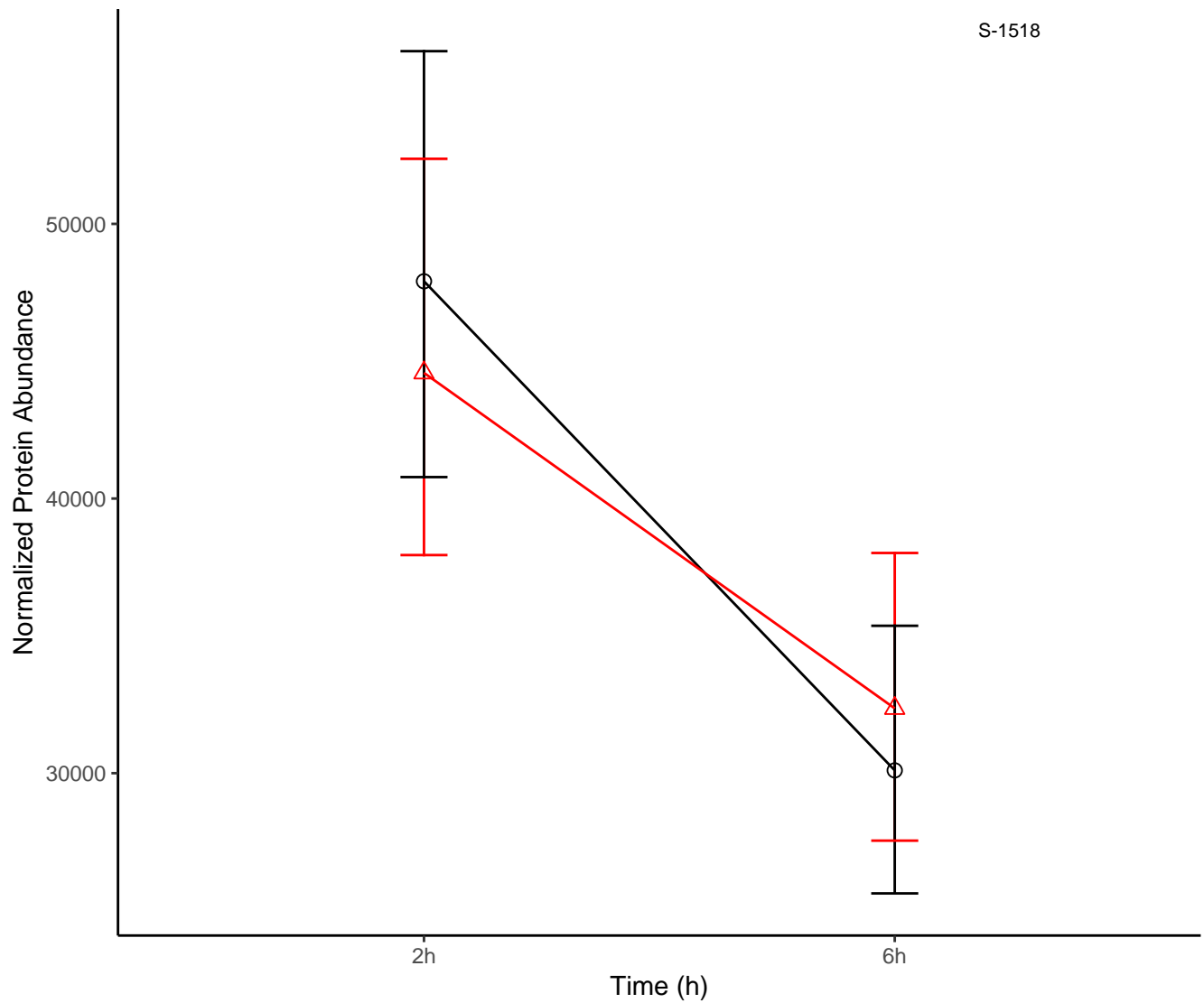


○ TSB-dex

△ TSB

# ACP\_STAAM

S-1518

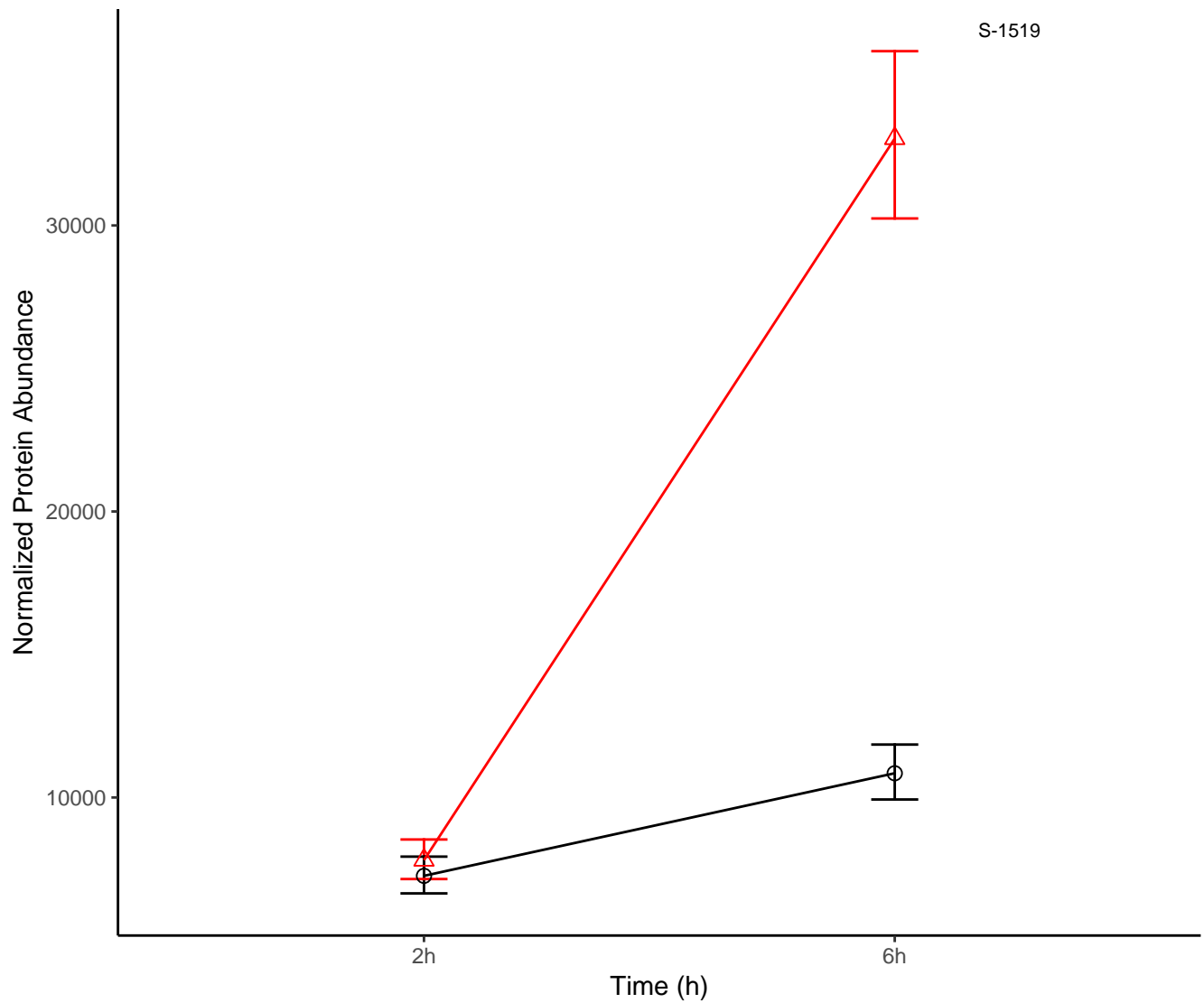


○ TSB-dex

△ TSB

# ADH\_STAAM

S-1519

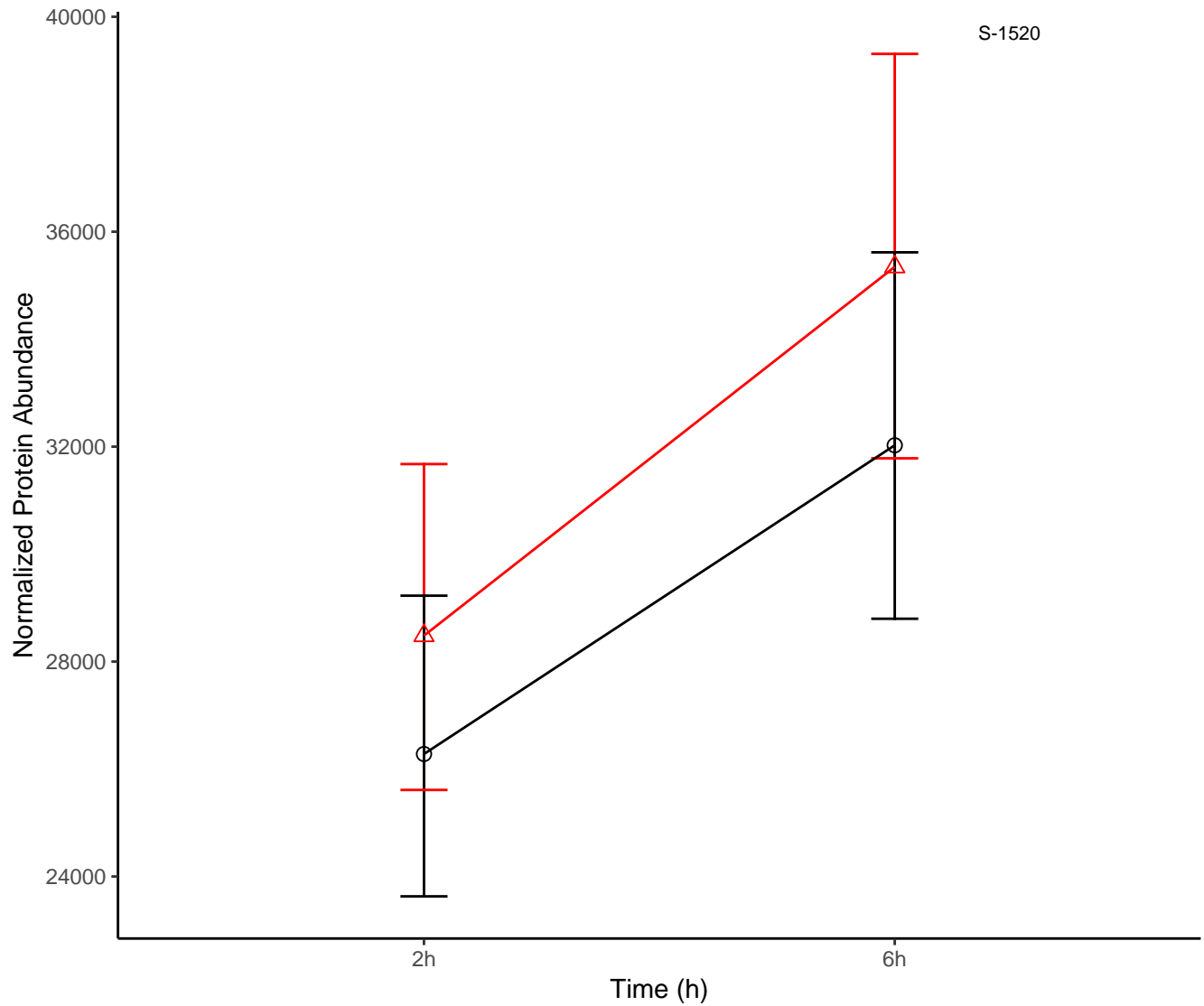


○ TSB-dex

△ TSB

# AHPC\_STAAM

S-1520



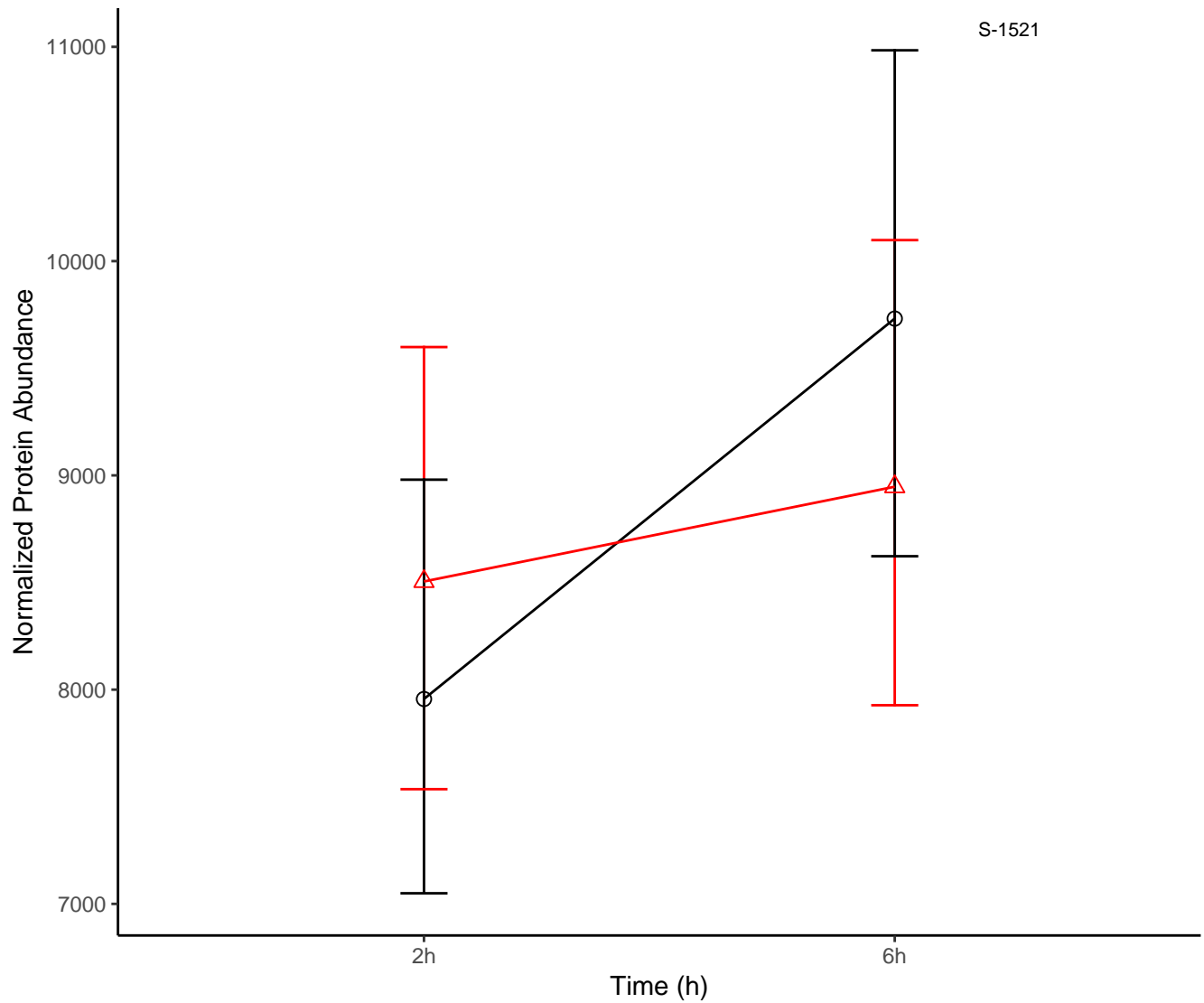
○ TSB-dex

△ TSB



# AHPF\_STAAM

S-1521

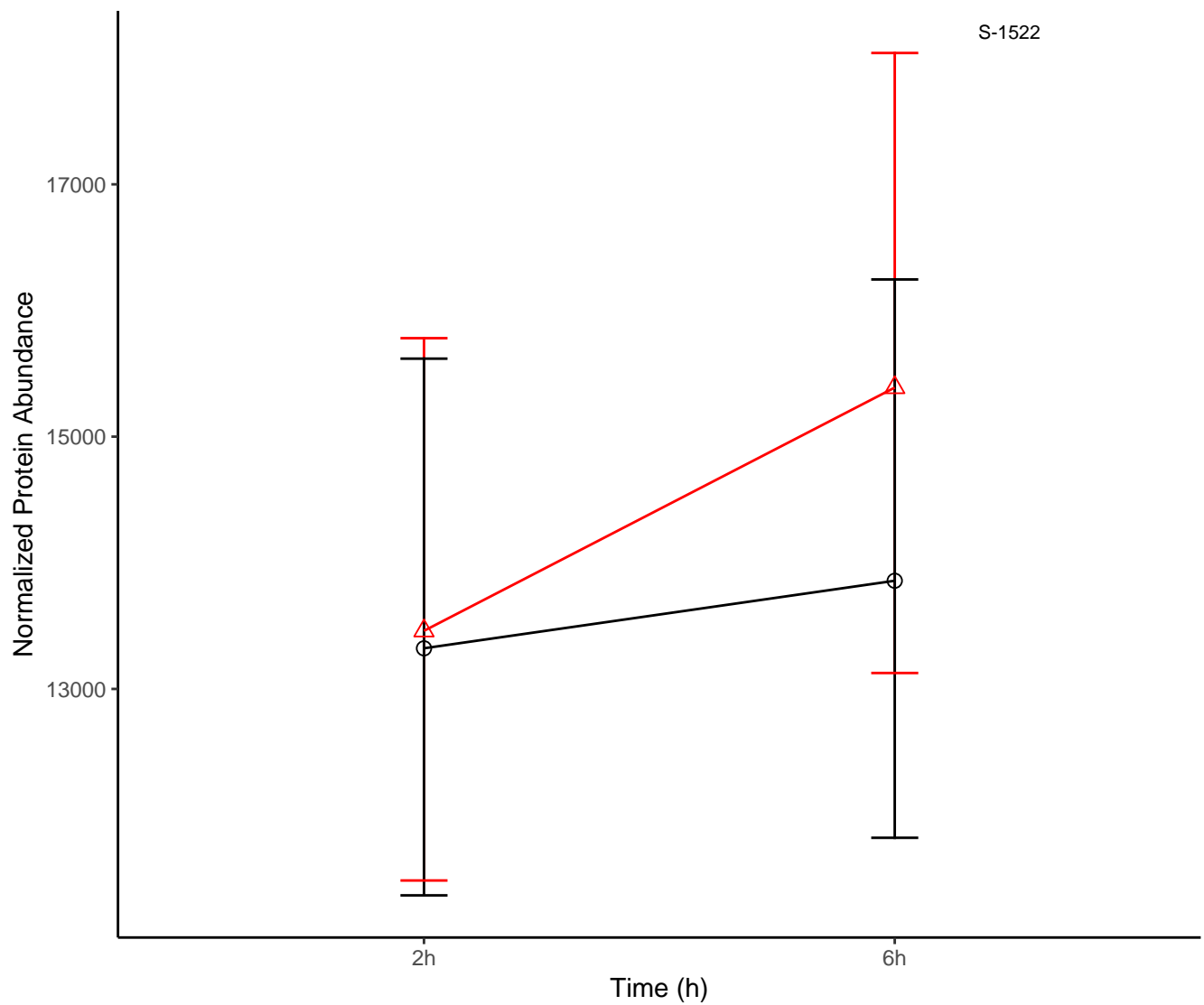


○ TSB-dex

△ TSB

# ALD1\_STAAM

S-1522

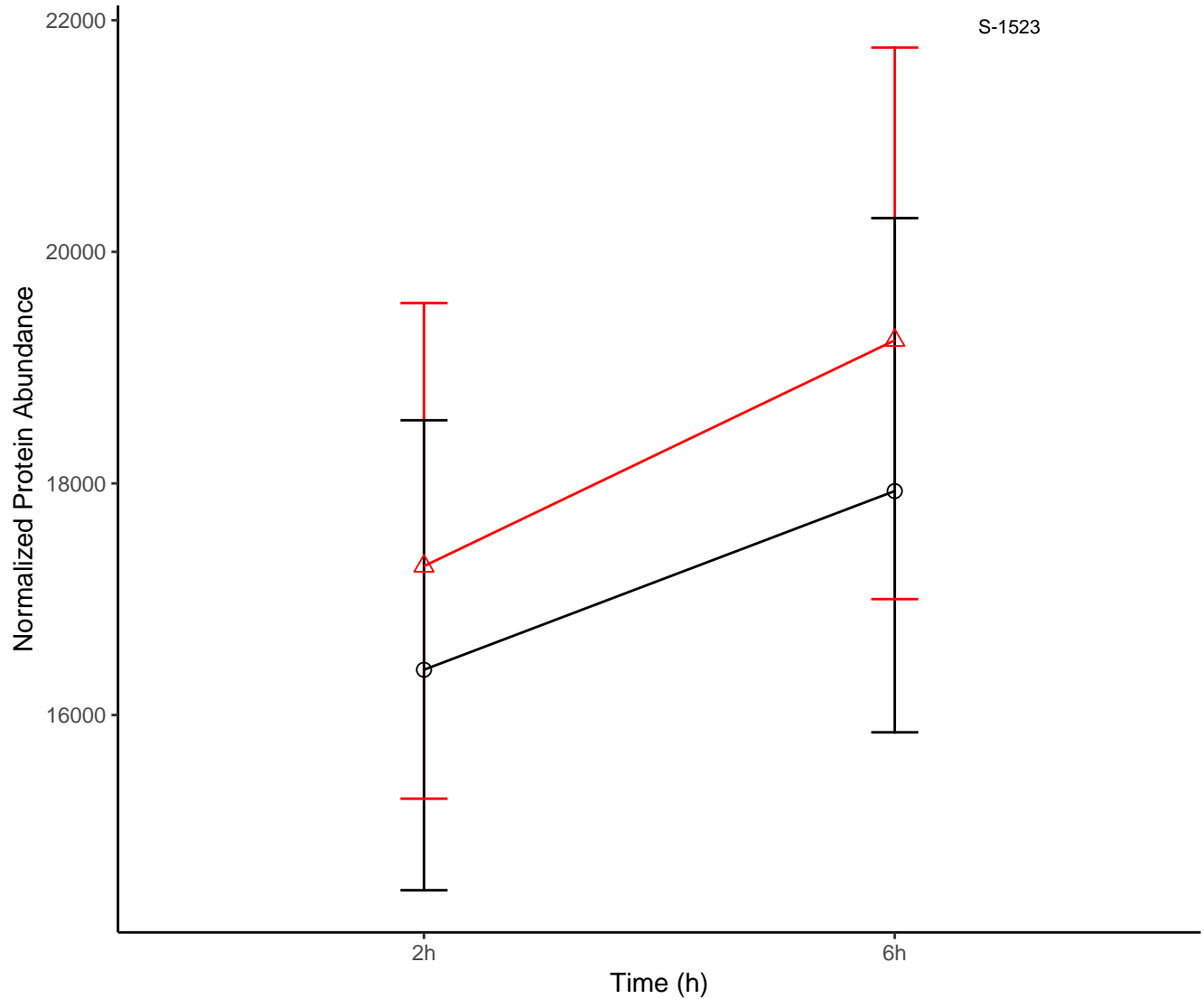


○ TSB-dex

△ TSB

# ALDA\_STAAM

S-1523

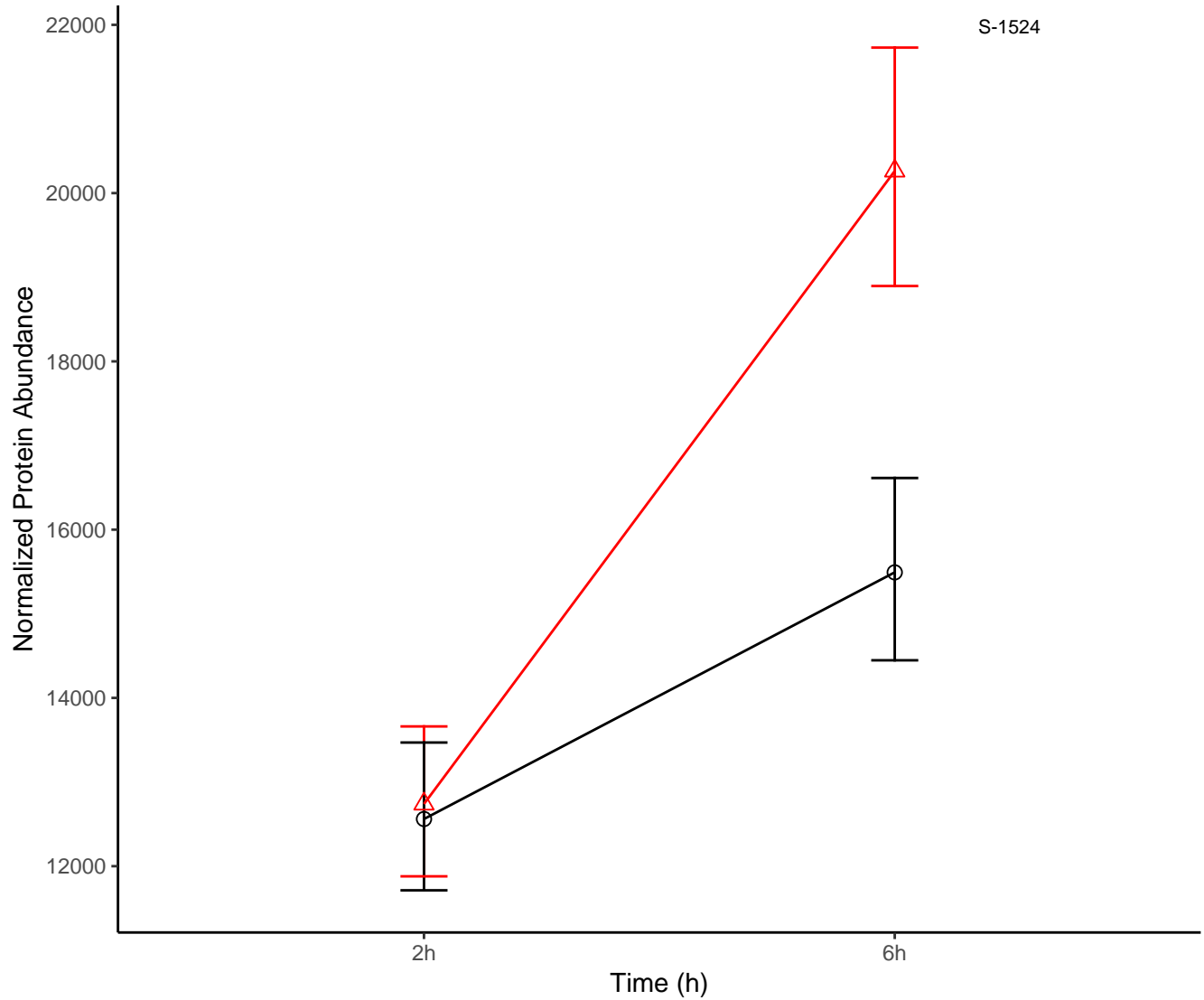


○ TSB-dex

△ TSB

# ALF1\_STAAM

S-1524



○ TSB-dex

△ TSB

# ALF2\_STAAM

S-1525

Normalized Protein Abundance

25000

22500

20000

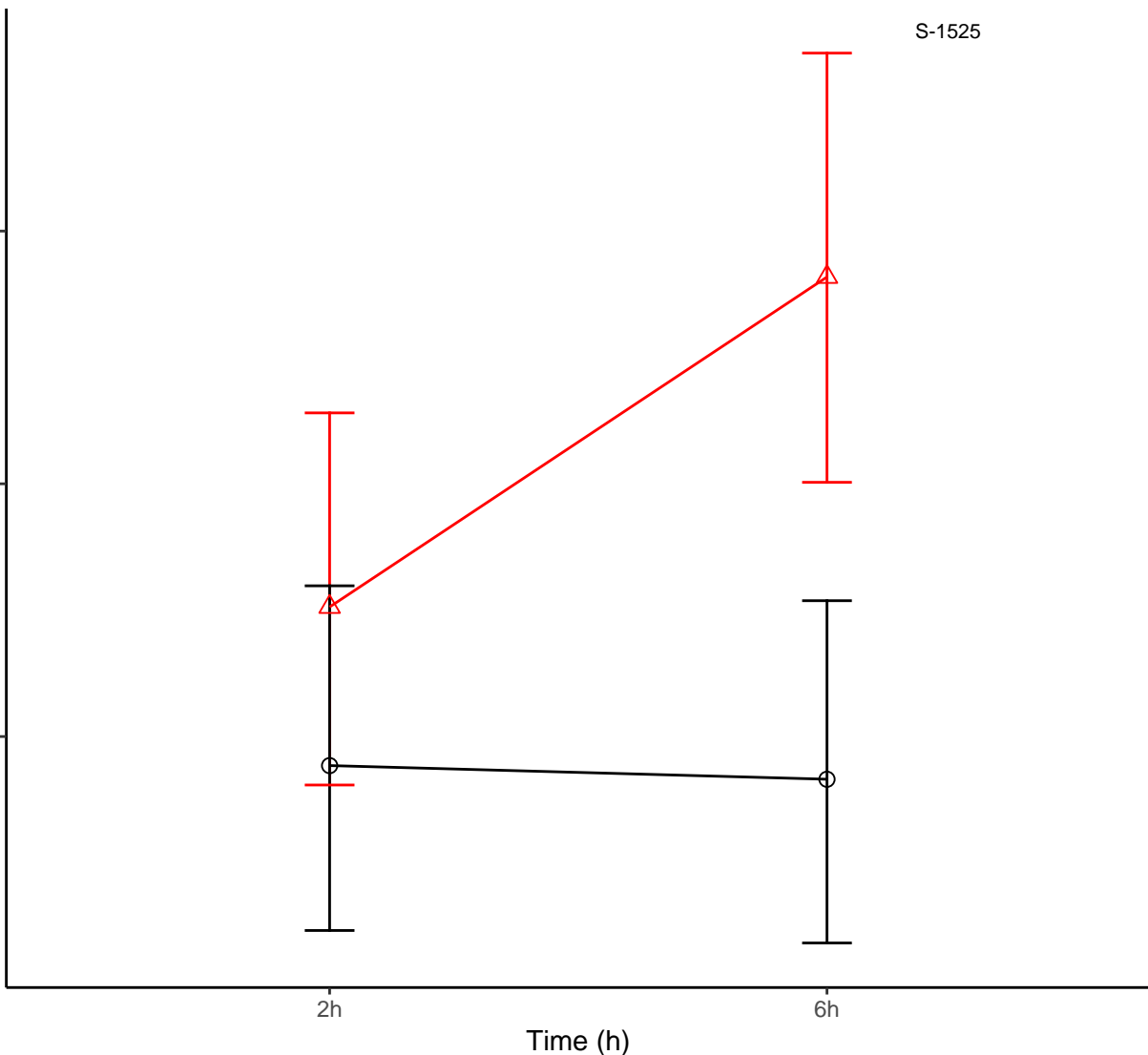
2h

6h

Time (h)

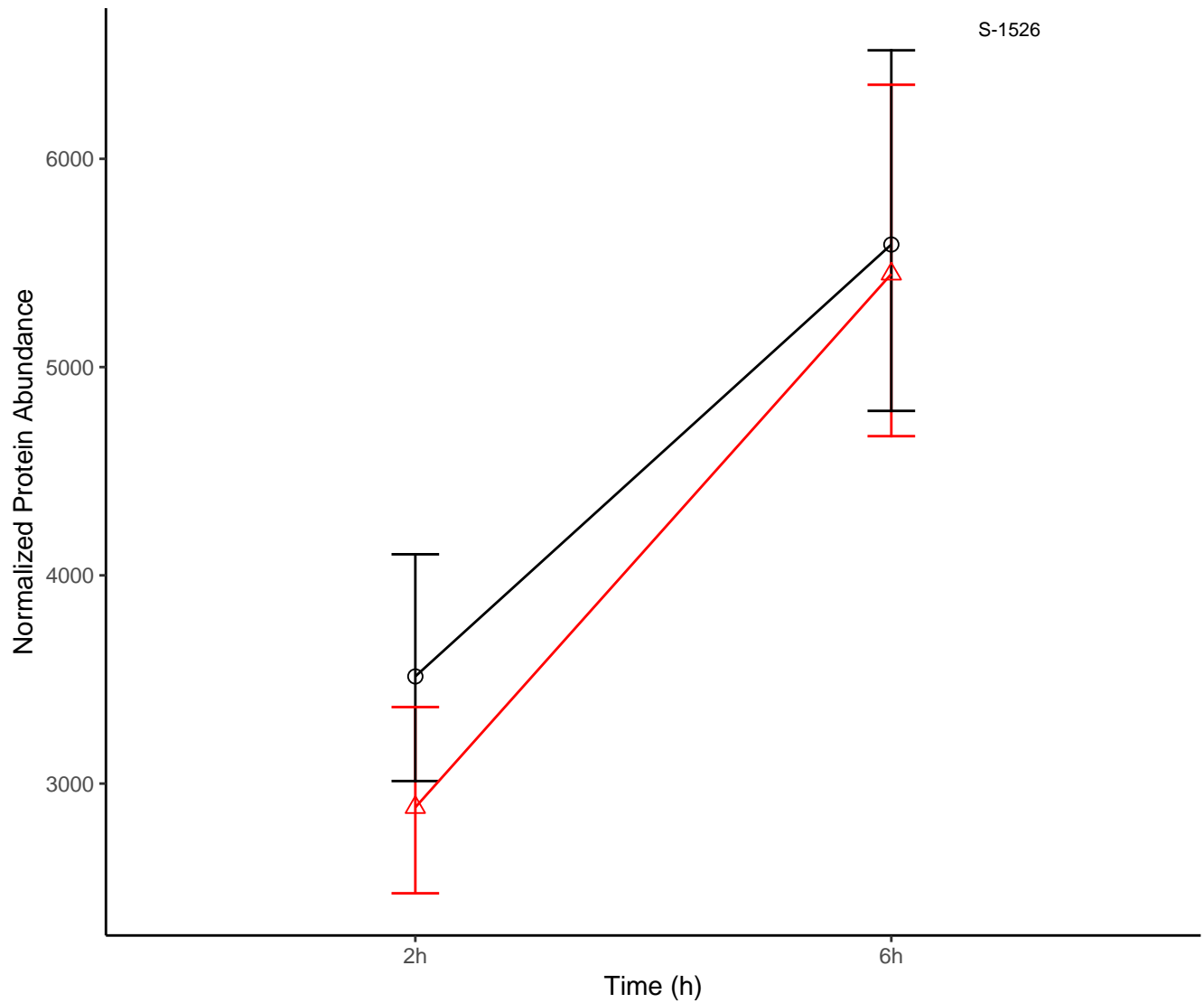
○ TSB-dex

△ TSB



# APT\_STAAM

S-1526

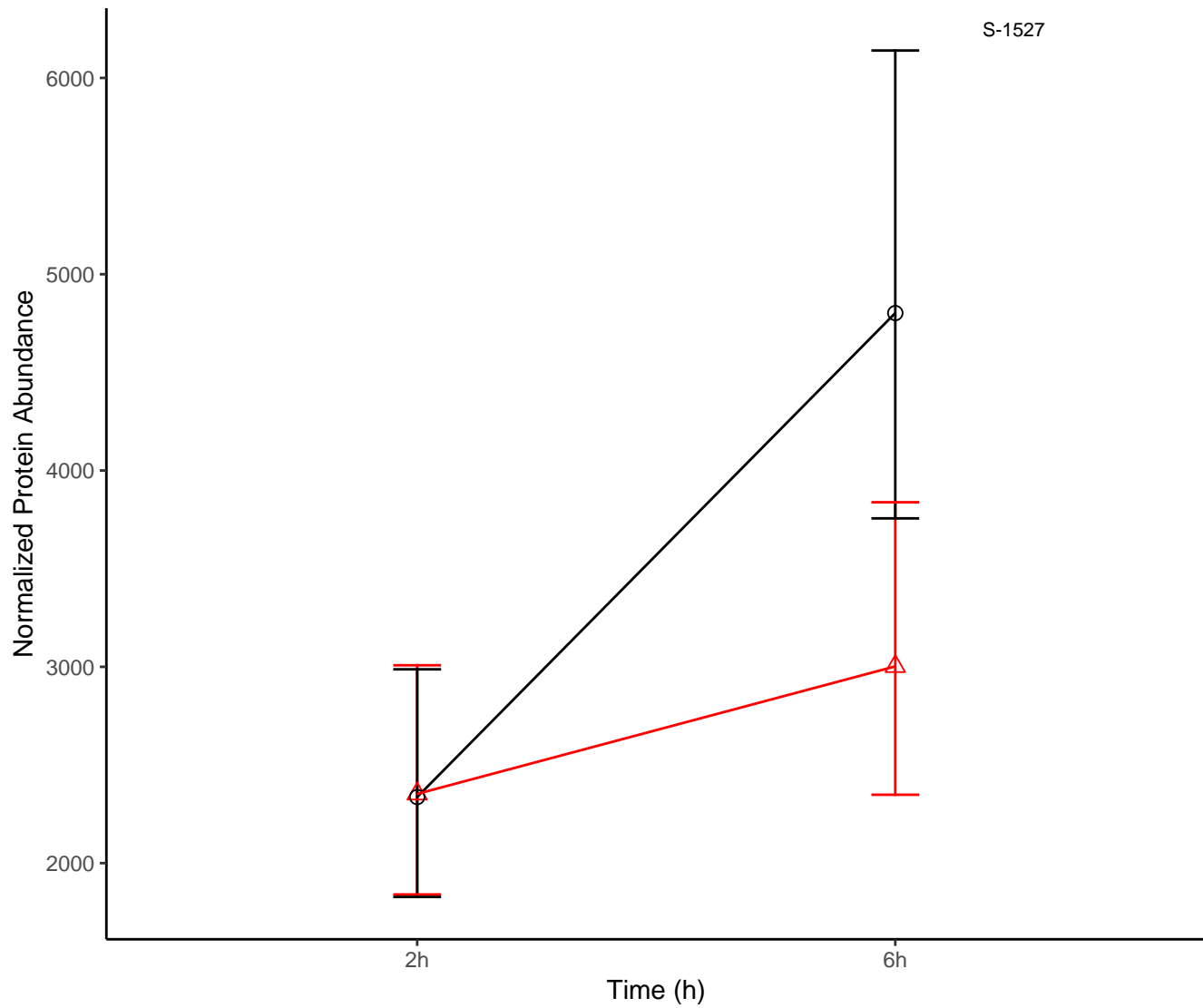


○ TSB-dex

△ TSB

# ARCA\_STAAM

S-1527

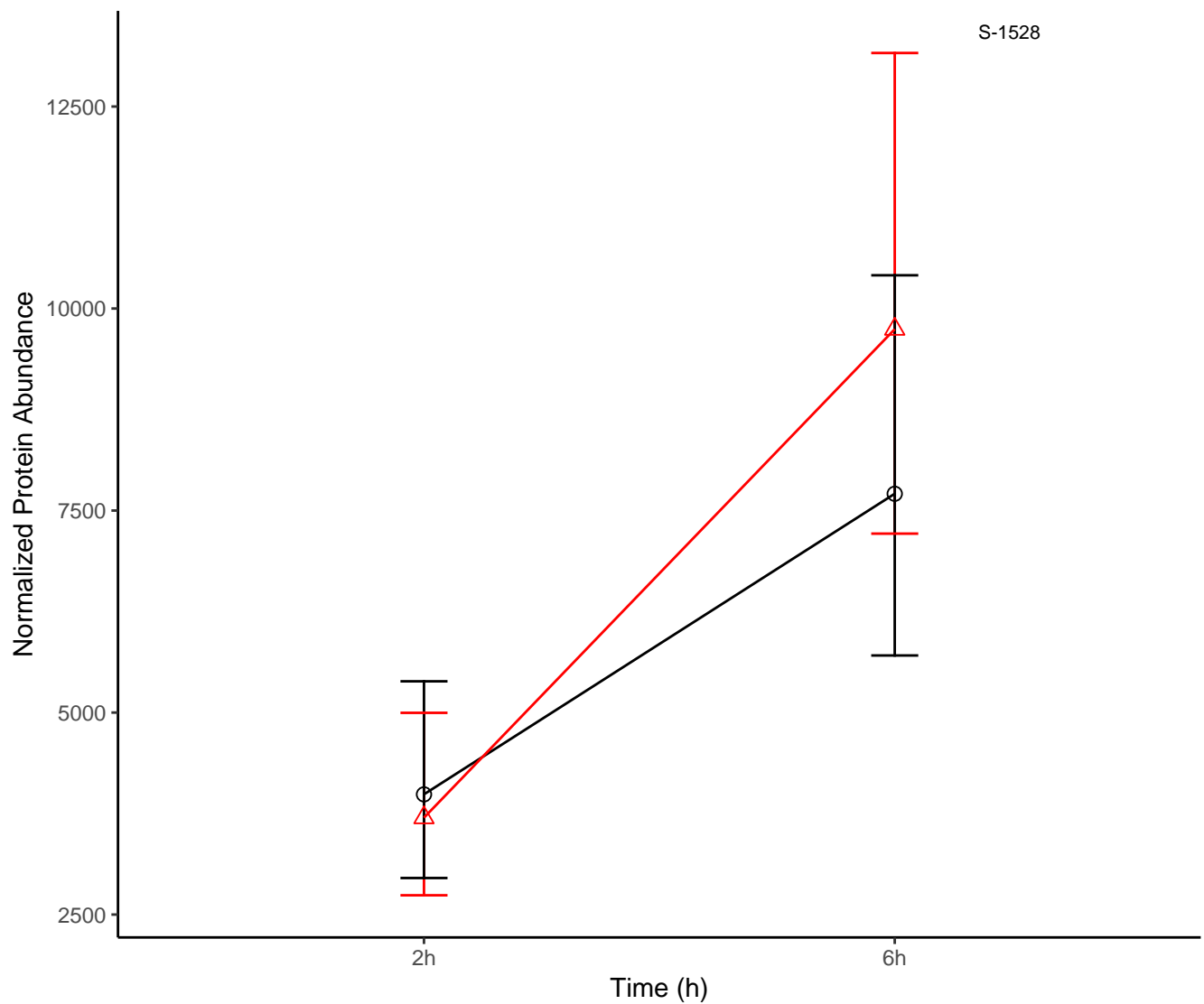


○ TSB-dex

△ TSB

# ARCC1\_STAAM

S-1528



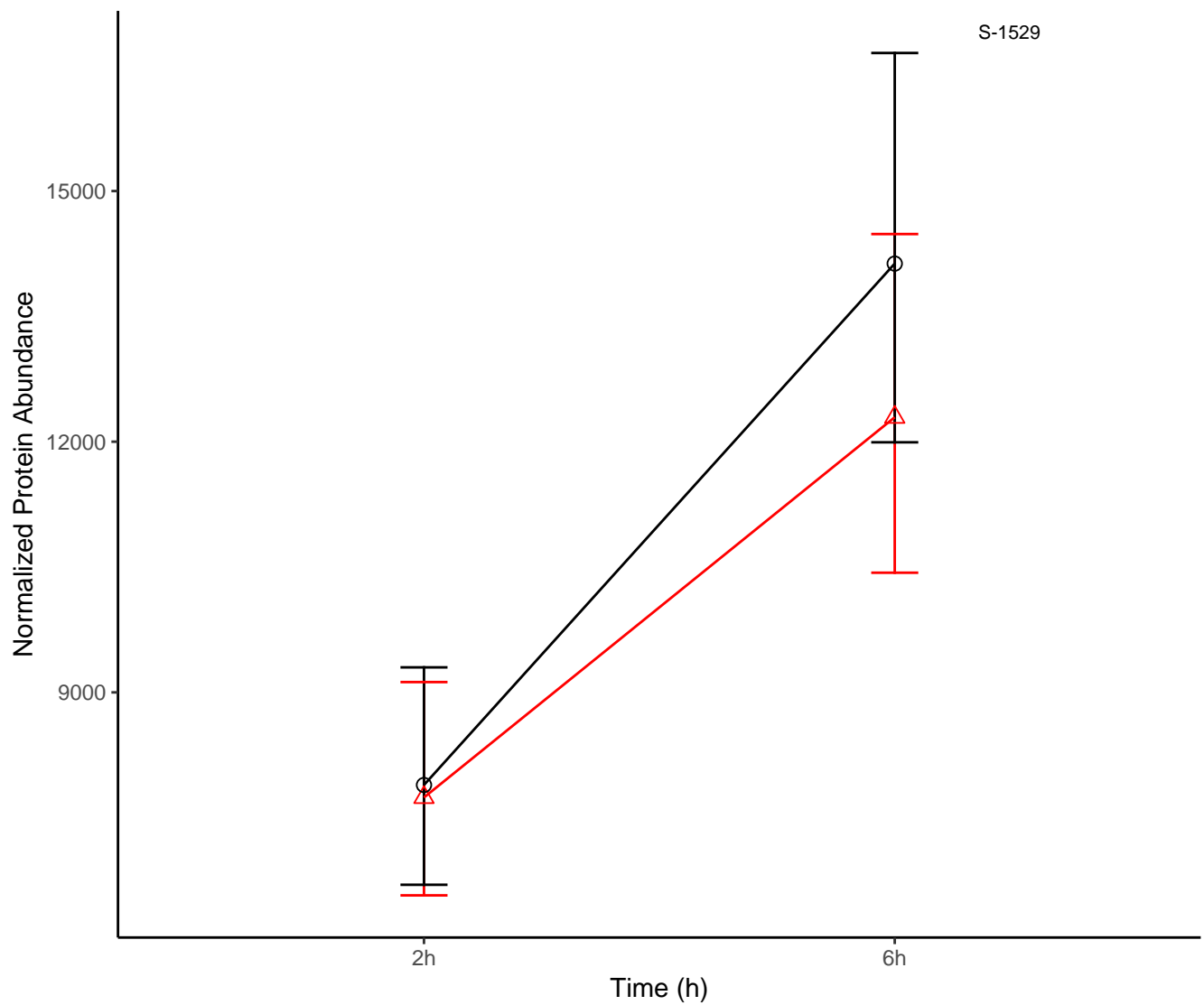
○ TSB-dex

△ TSB



# ARGI\_STAAM

S-1529

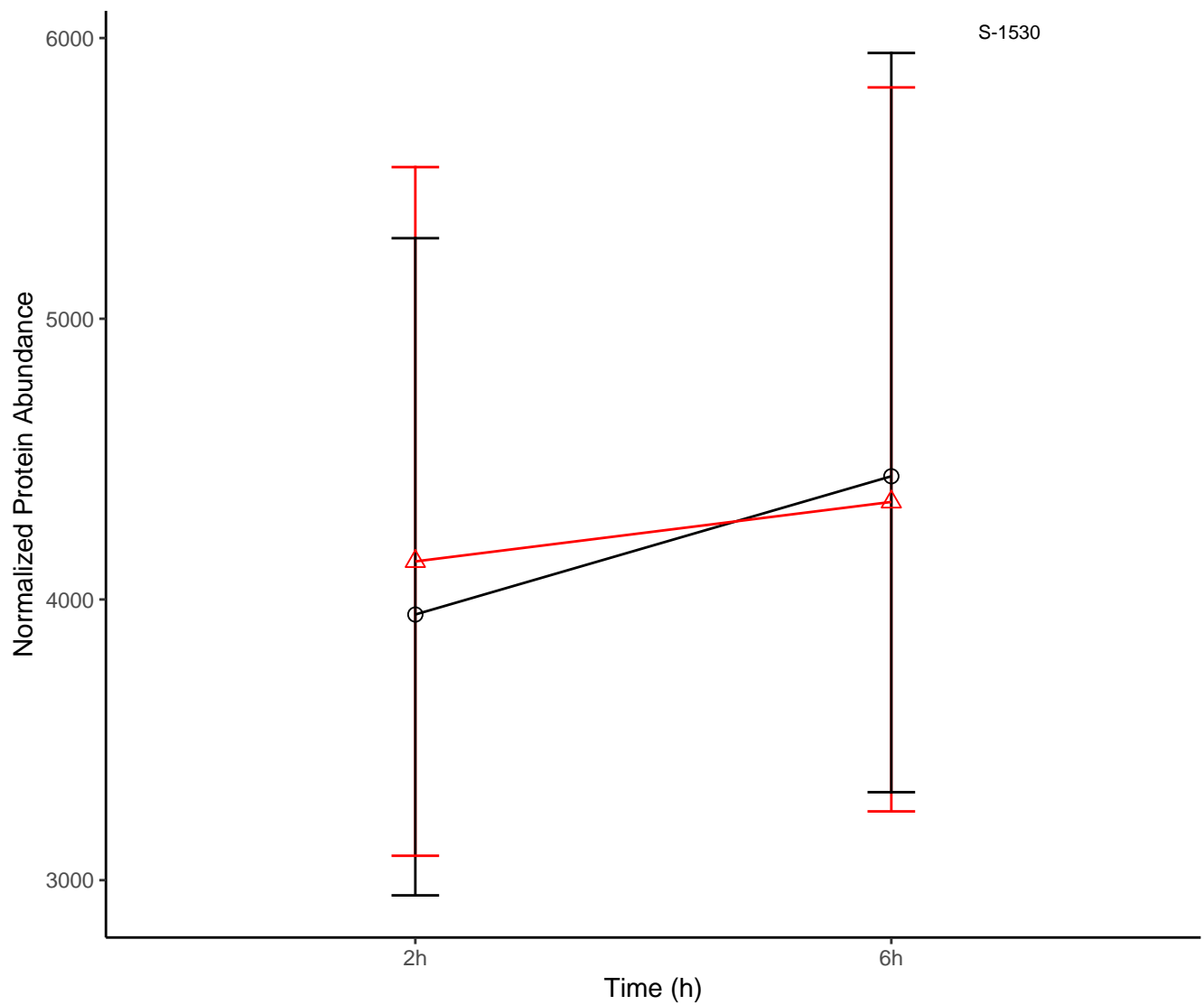


○ TSB-dex

△ TSB

# ARGR\_STAAM

S-1530

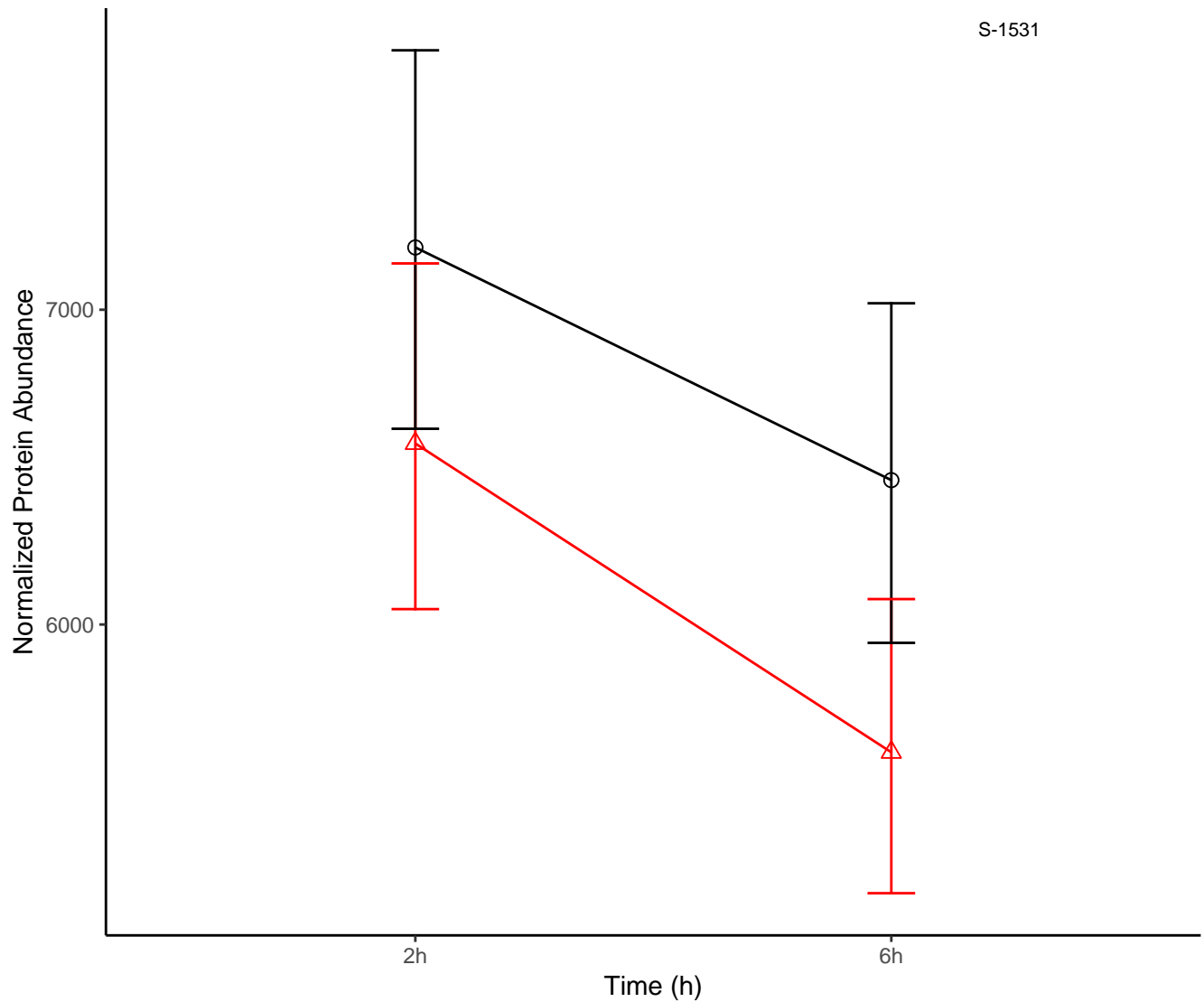


○ TSB-dex

△ TSB

# ARLR\_STAAM

S-1531

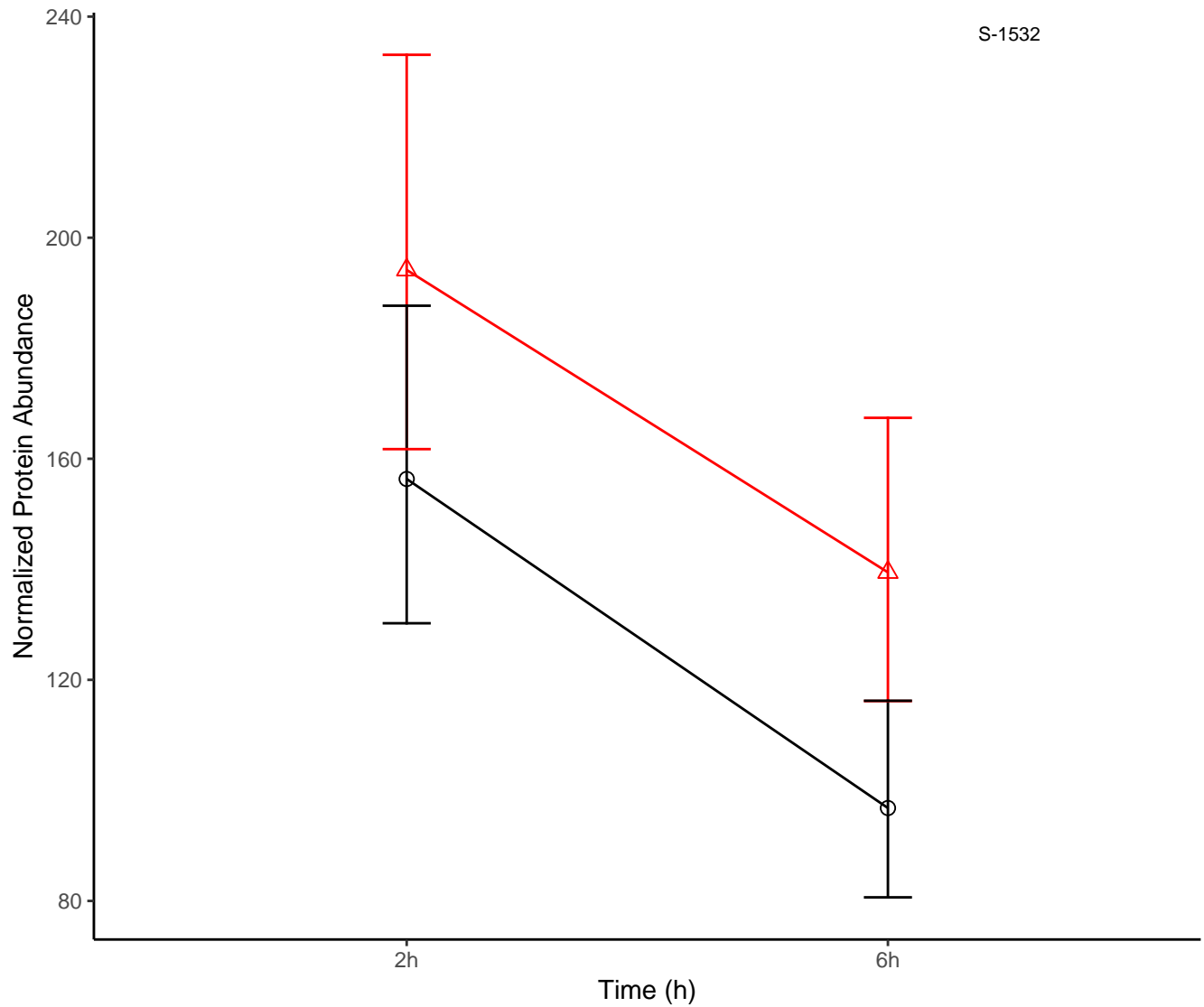


○ TSB-dex

△ TSB

# ARLY\_STAAM

S-1532

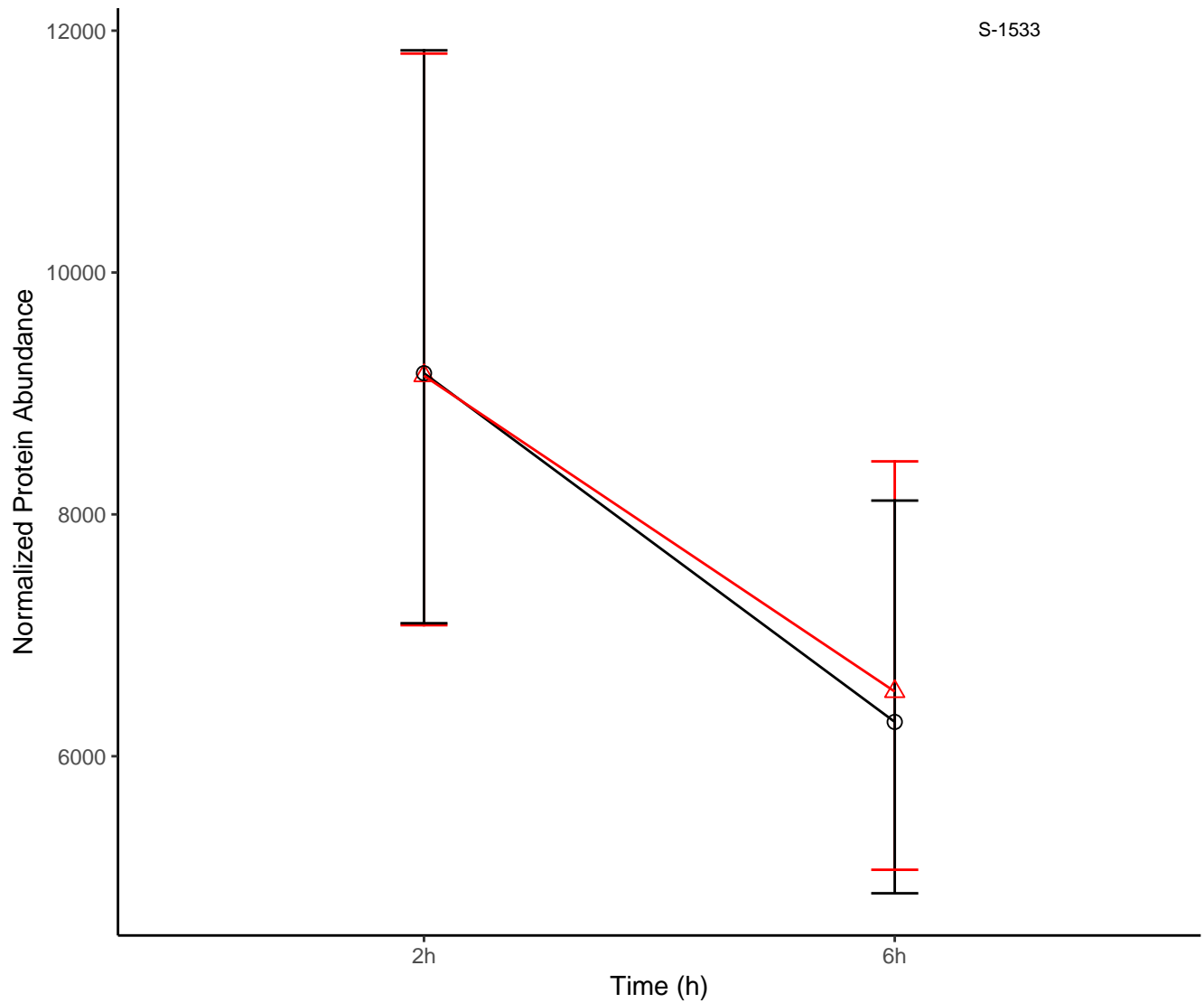


○ TSB-dex

△ TSB

# AROA\_STAAM

S-1533

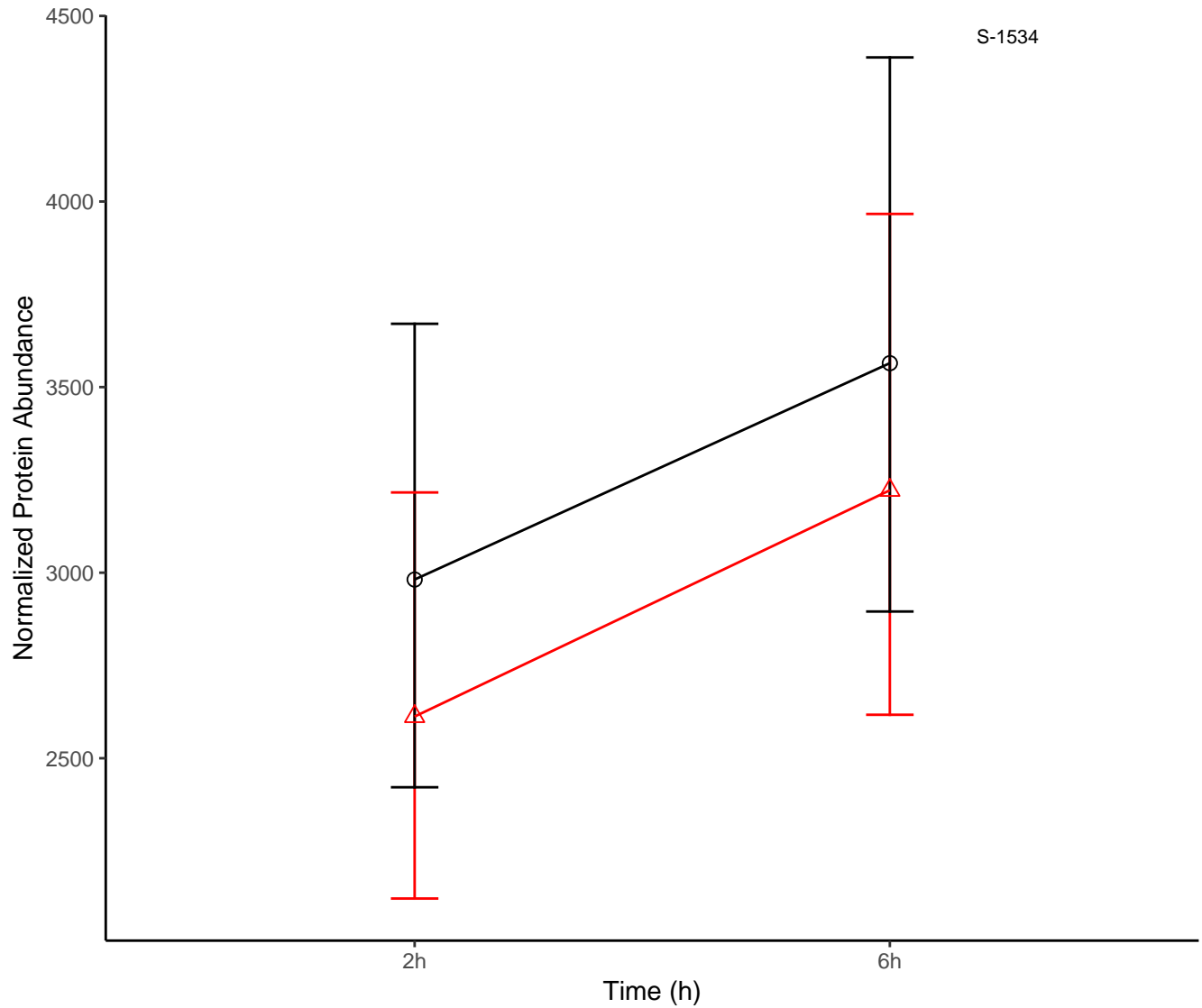


○ TSB-dex

△ TSB

# AROB\_STAAM

S-1534

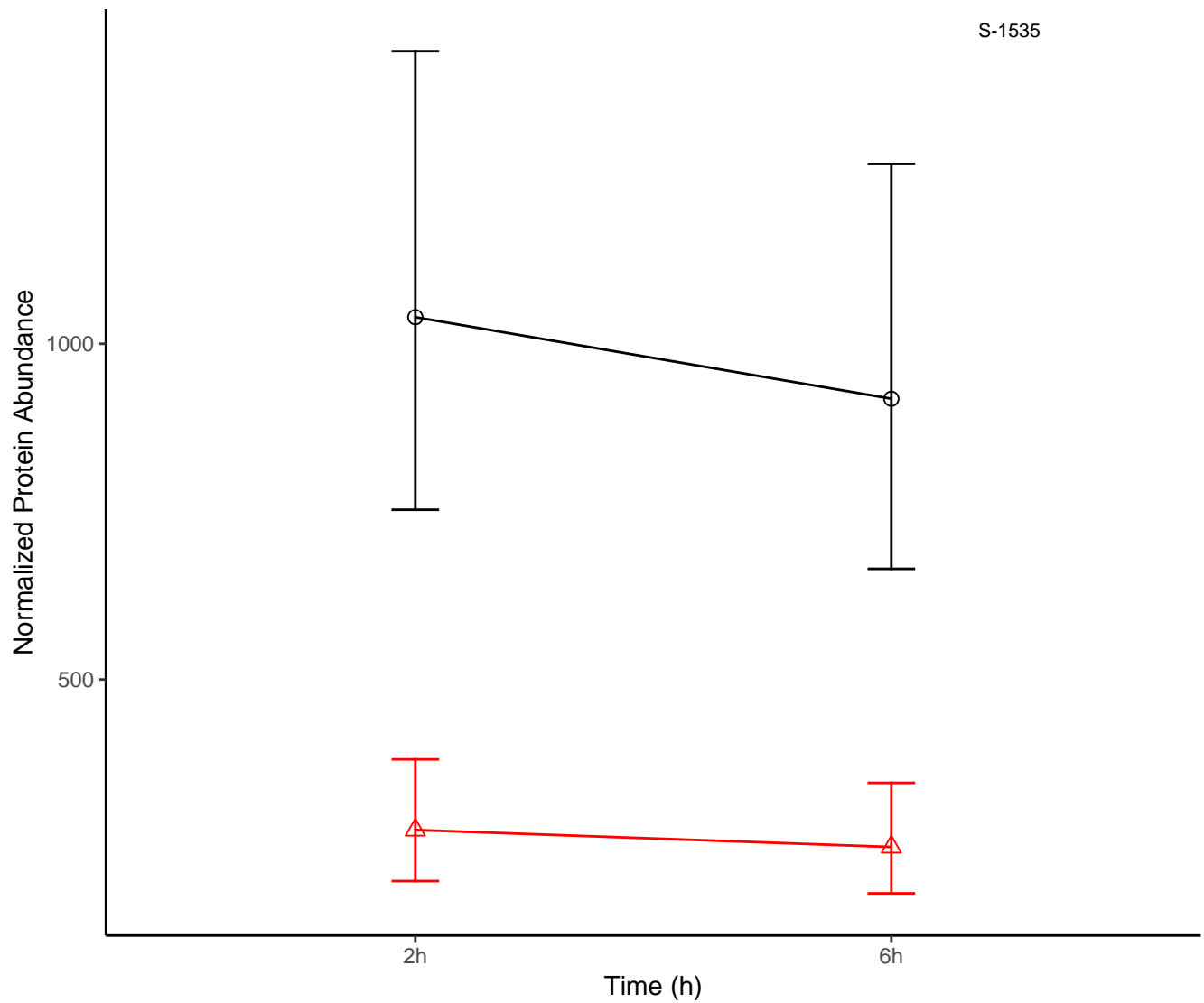


○ TSB-dex

△ TSB

# AROE\_STAAM

S-1535

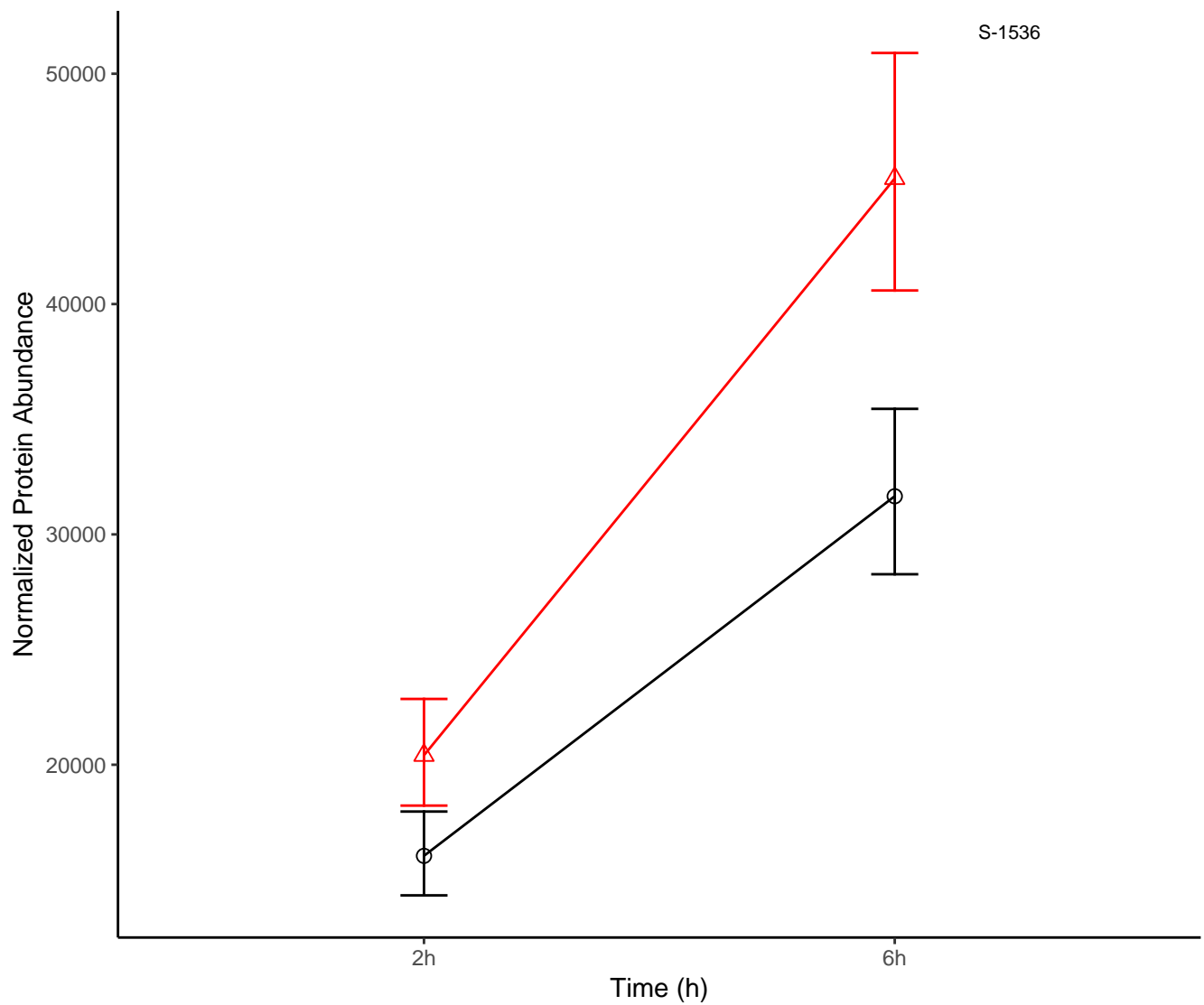


○ TSB-dex

△ TSB

# ASP23\_STAAM

S-1536



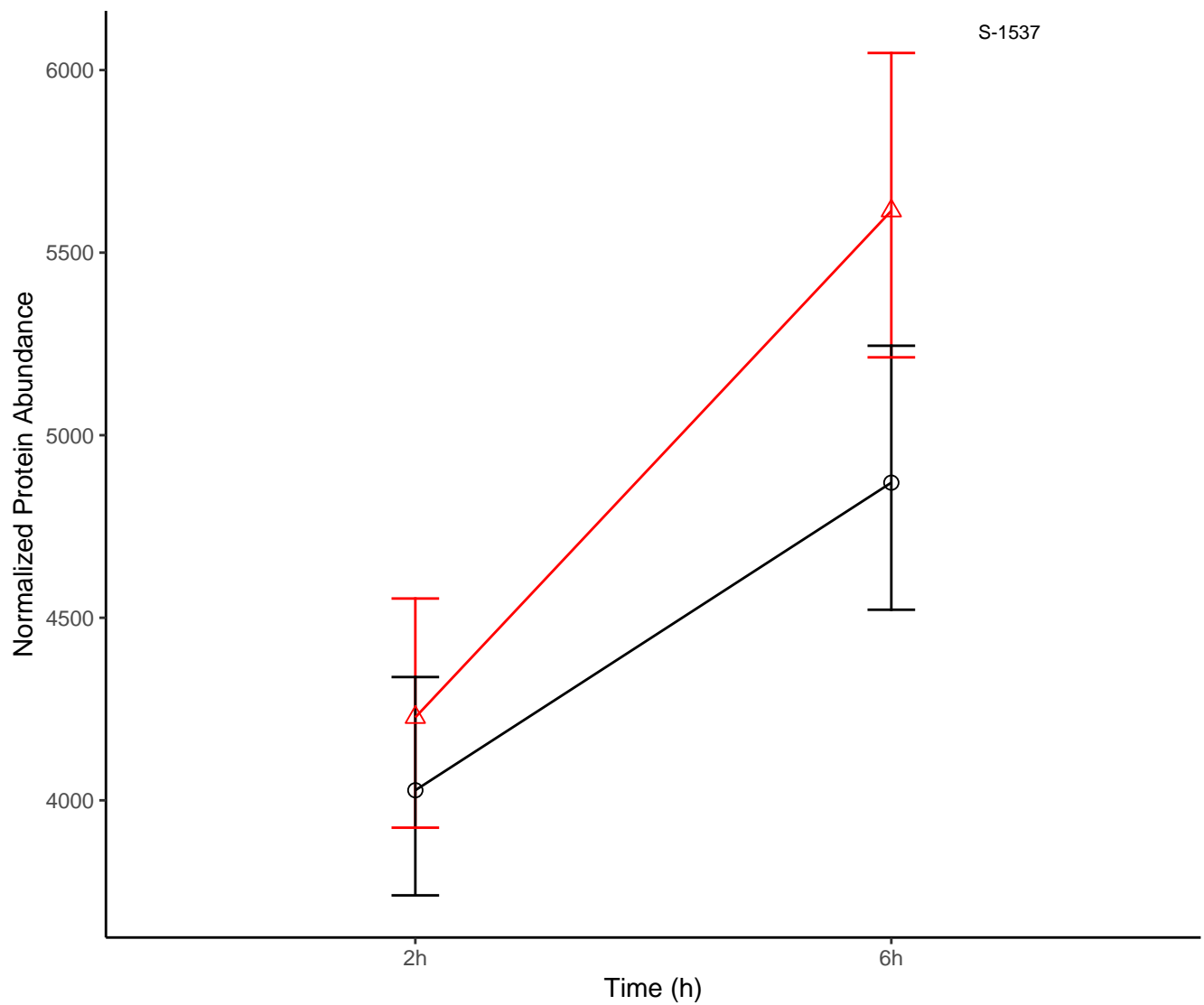
○ TSB-dex

△ TSB



# ATL\_STAAM

S-1537

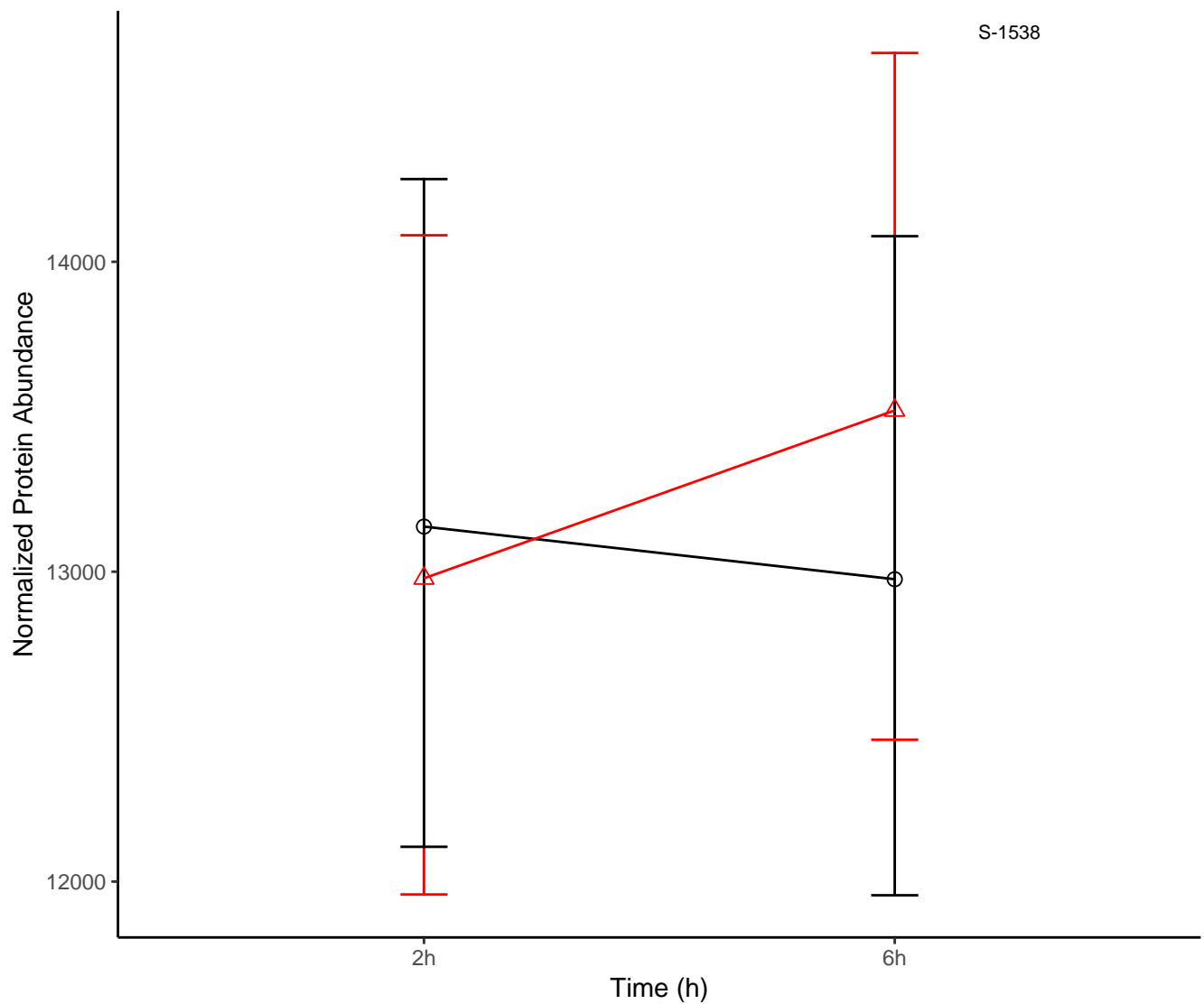


○ TSB-dex

△ TSB

# ATPA\_STAAM

S-1538

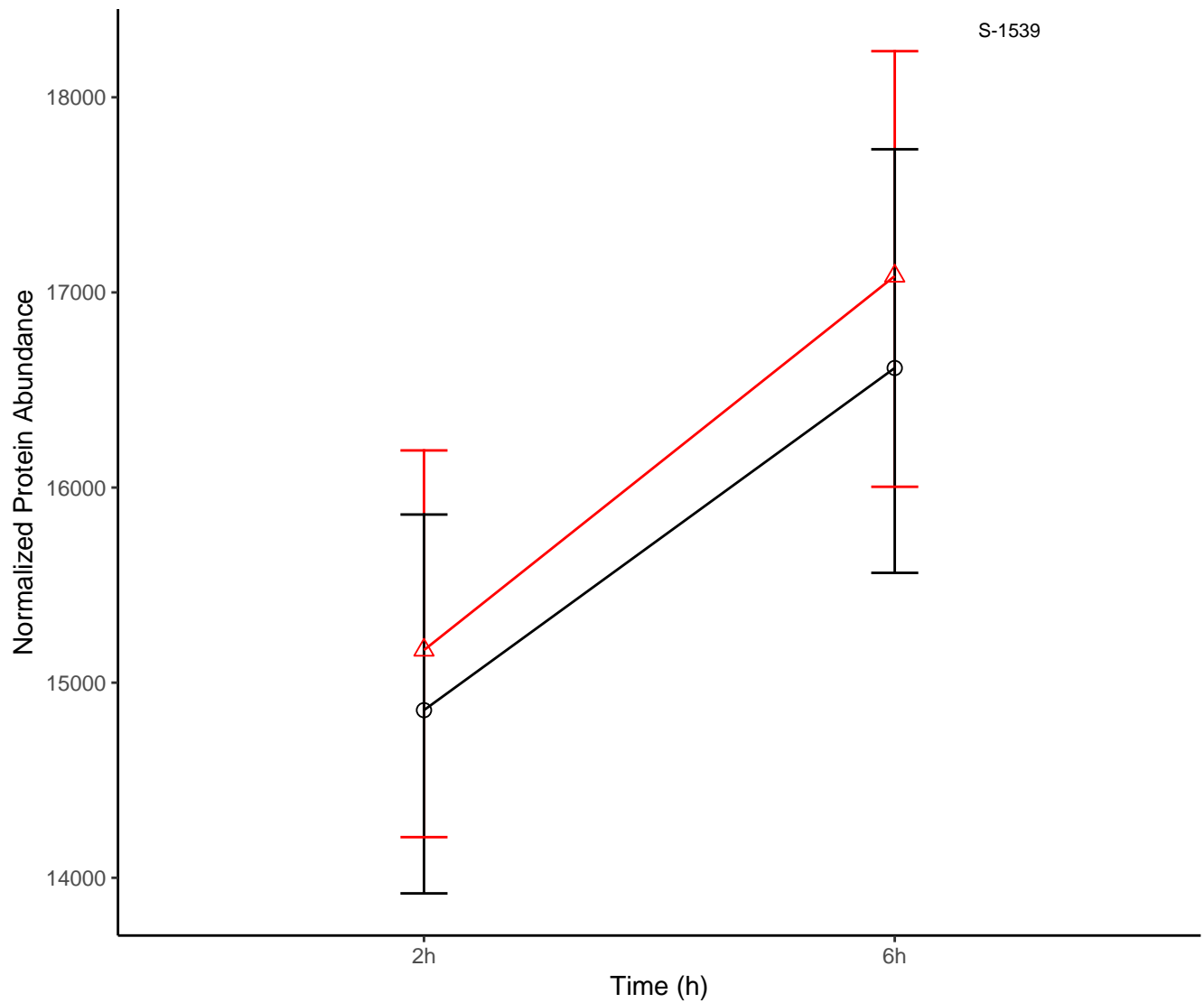


○ TSB-dex

△ TSB

# ATPB\_STAAM

S-1539

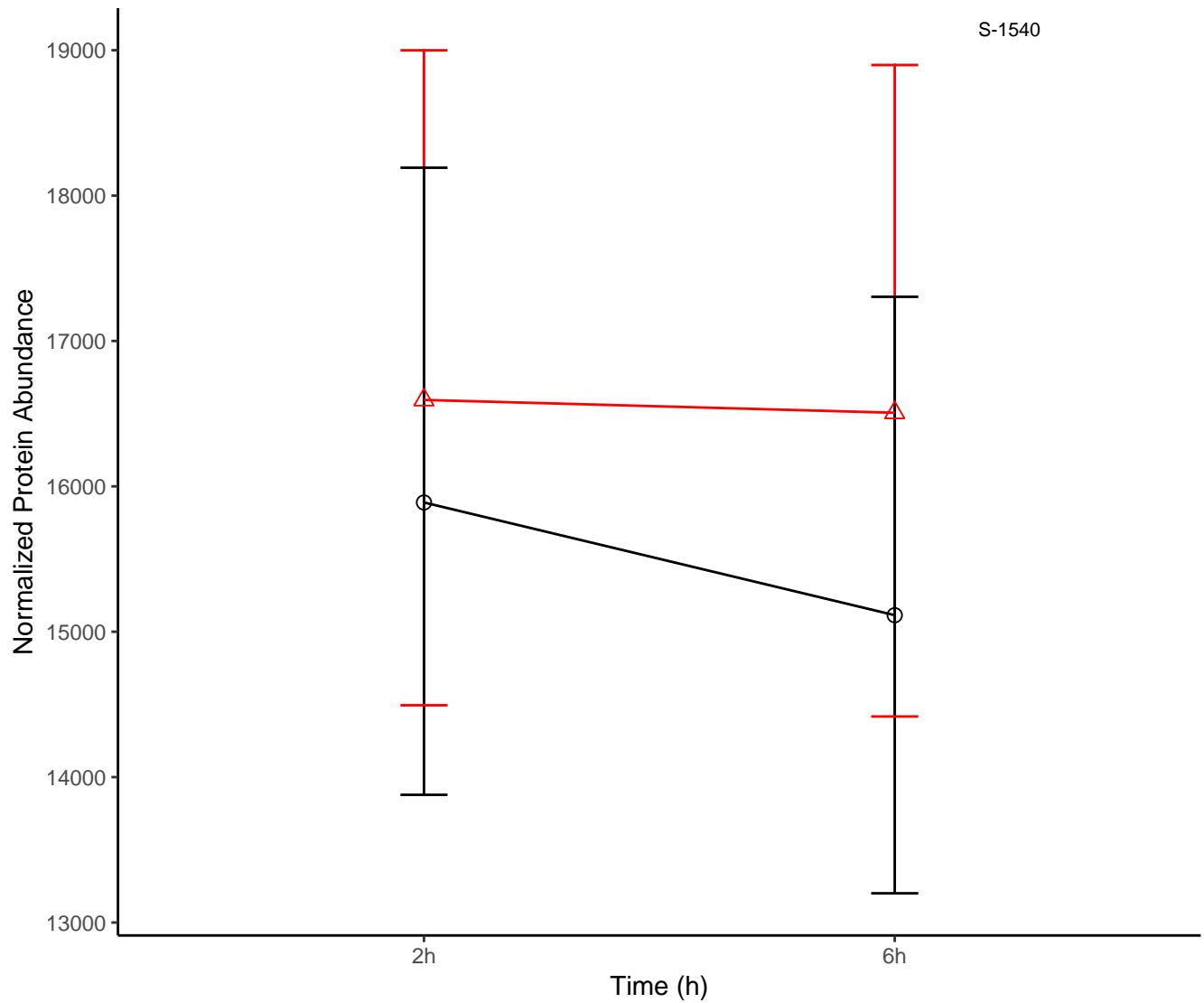


○ TSB-dex

△ TSB

# ATPD\_STAAM

S-1540

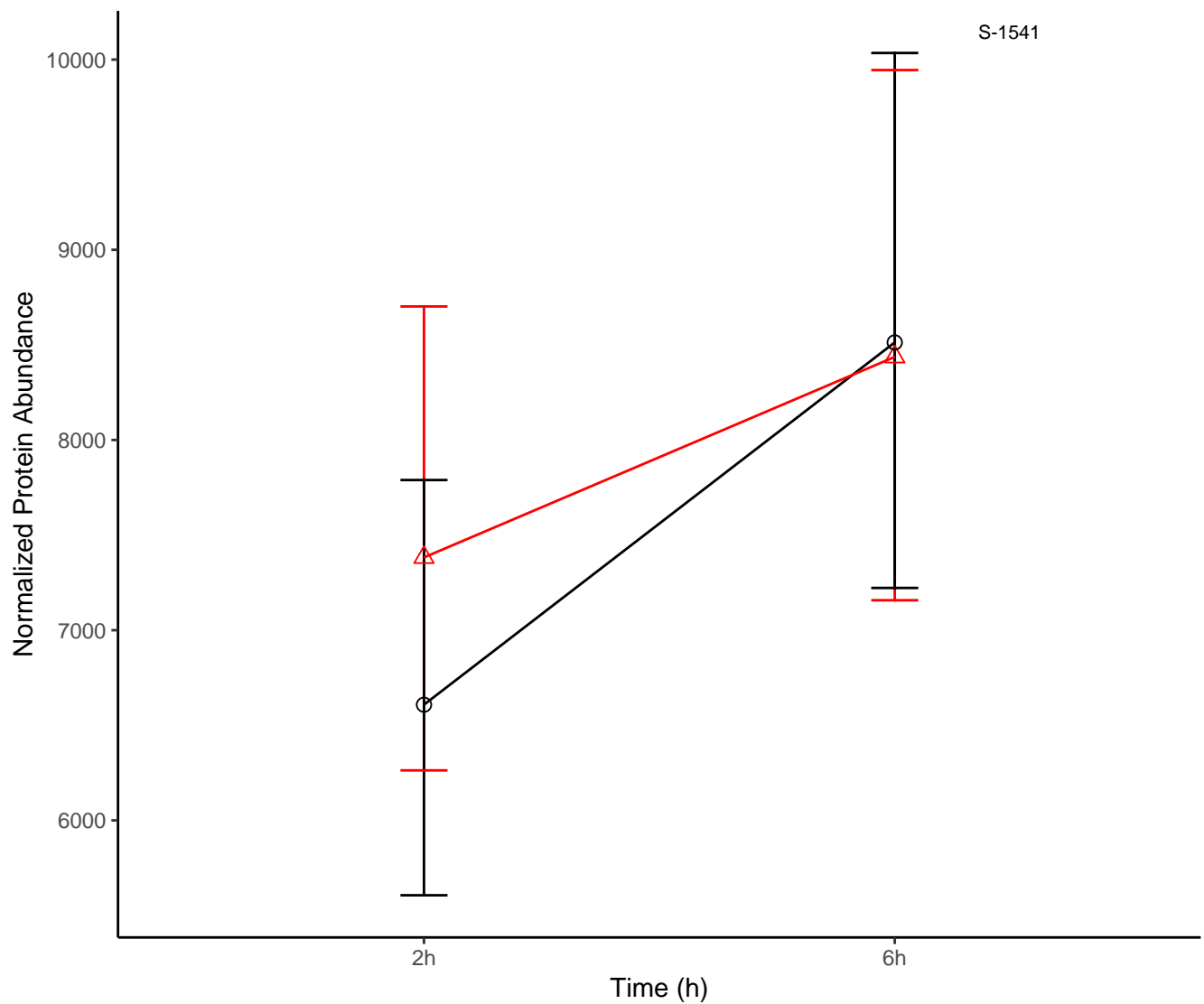


○ TSB-dex

△ TSB

# ATPE\_STAAM

S-1541

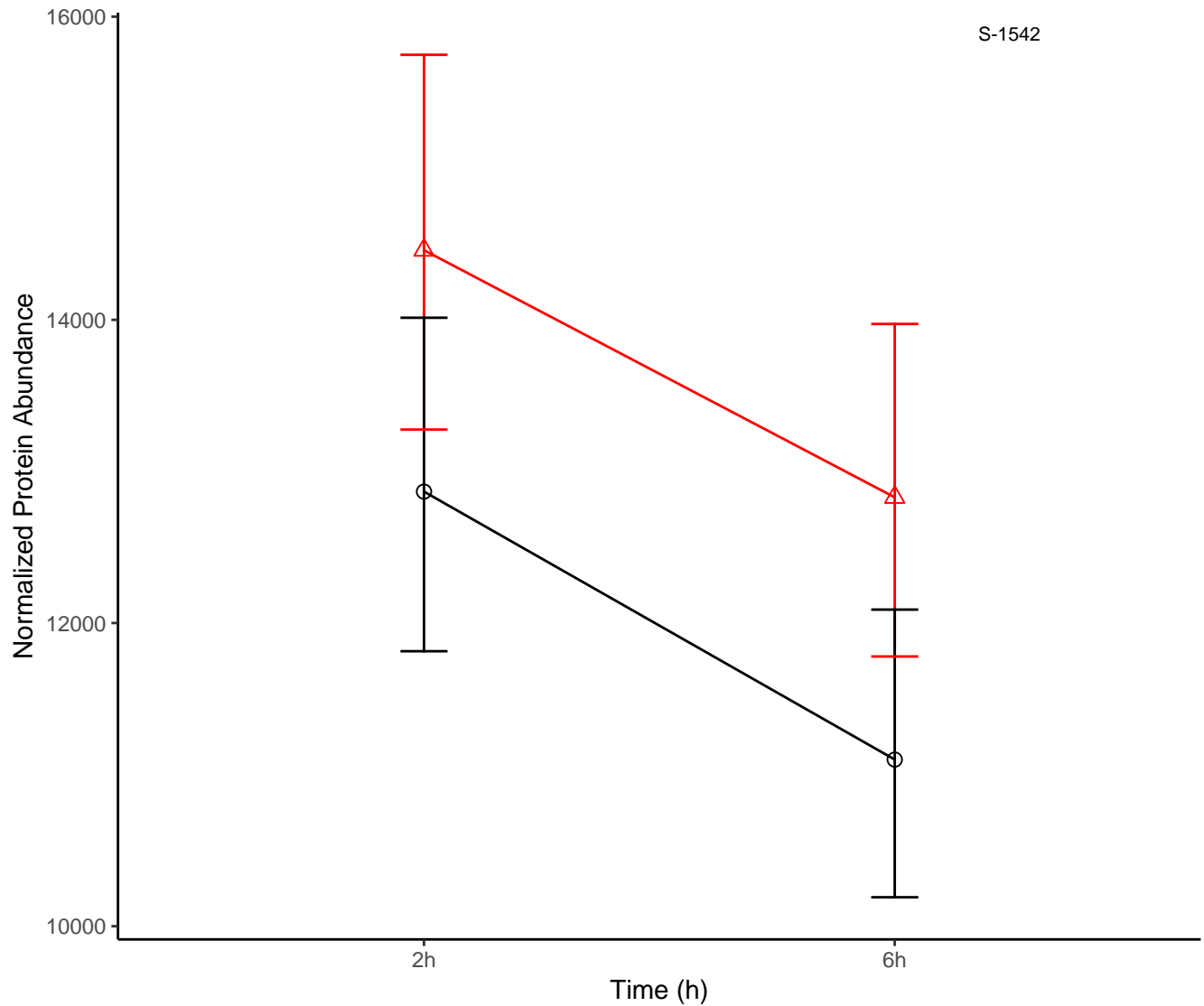


○ TSB-dex

△ TSB

# ATPF\_STAAM

S-1542

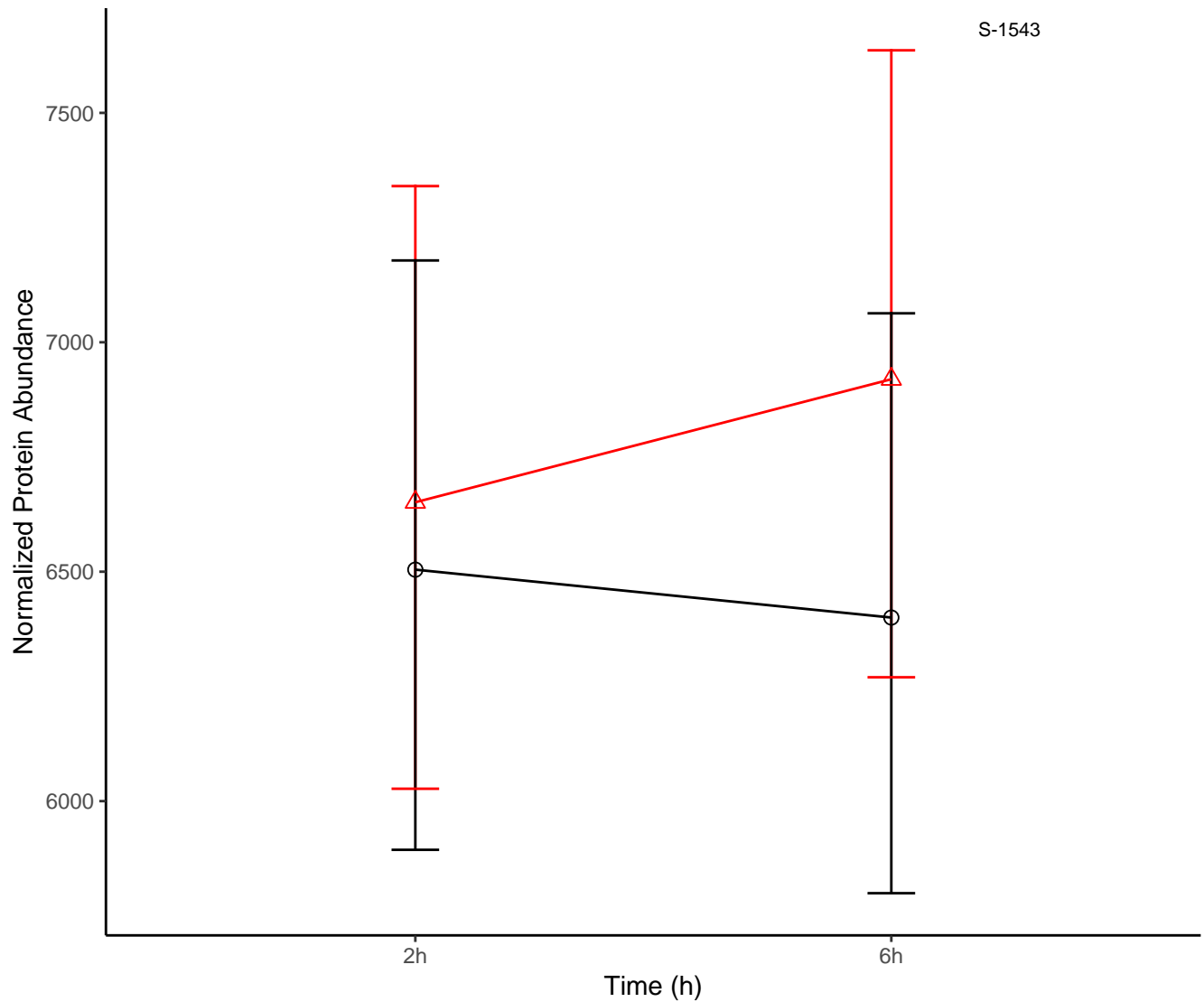


○ TSB-dex

△ TSB

# ATPG\_STAAM

S-1543

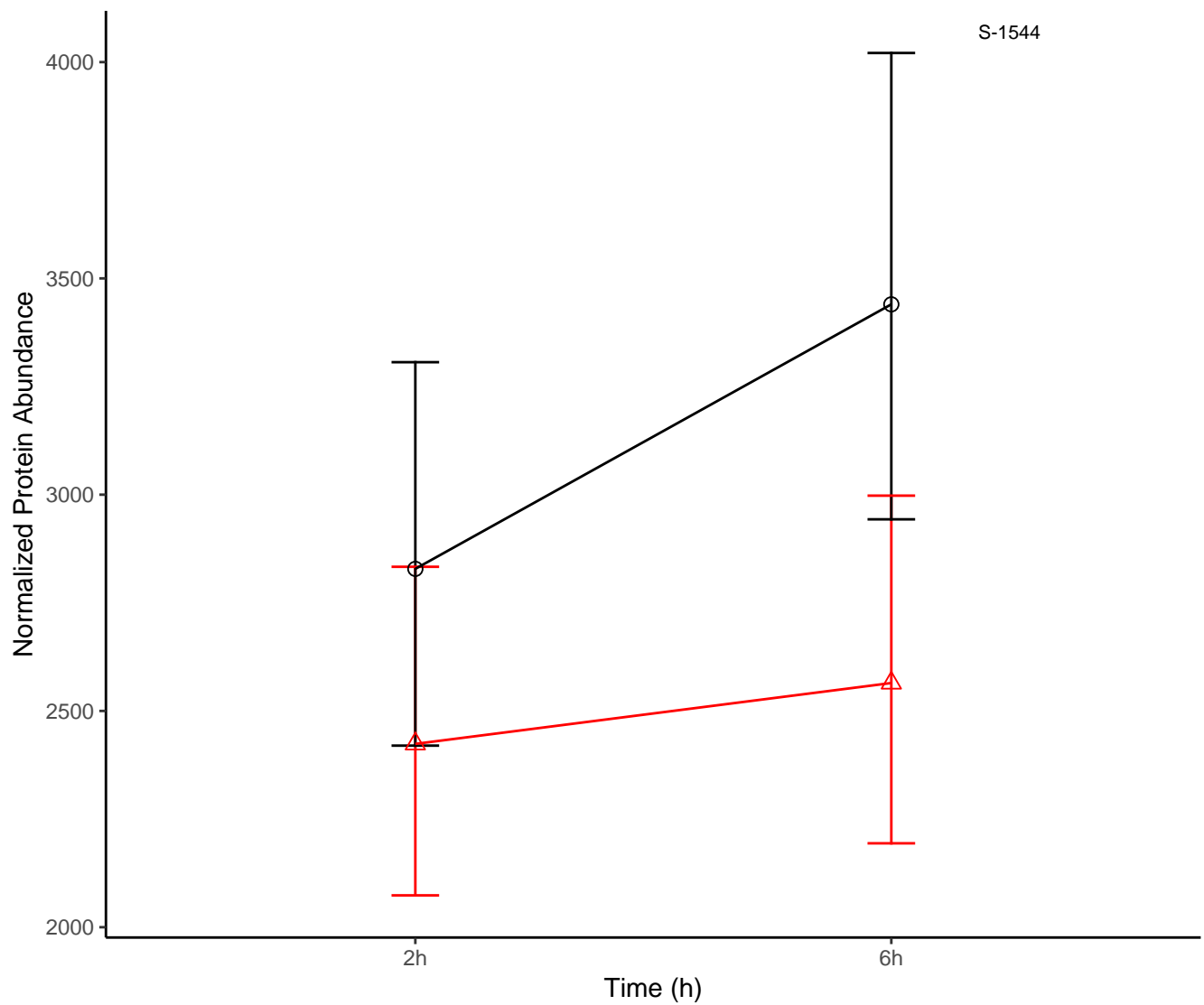


○ TSB-dex

△ TSB

# AZO1\_STAAM

S-1544



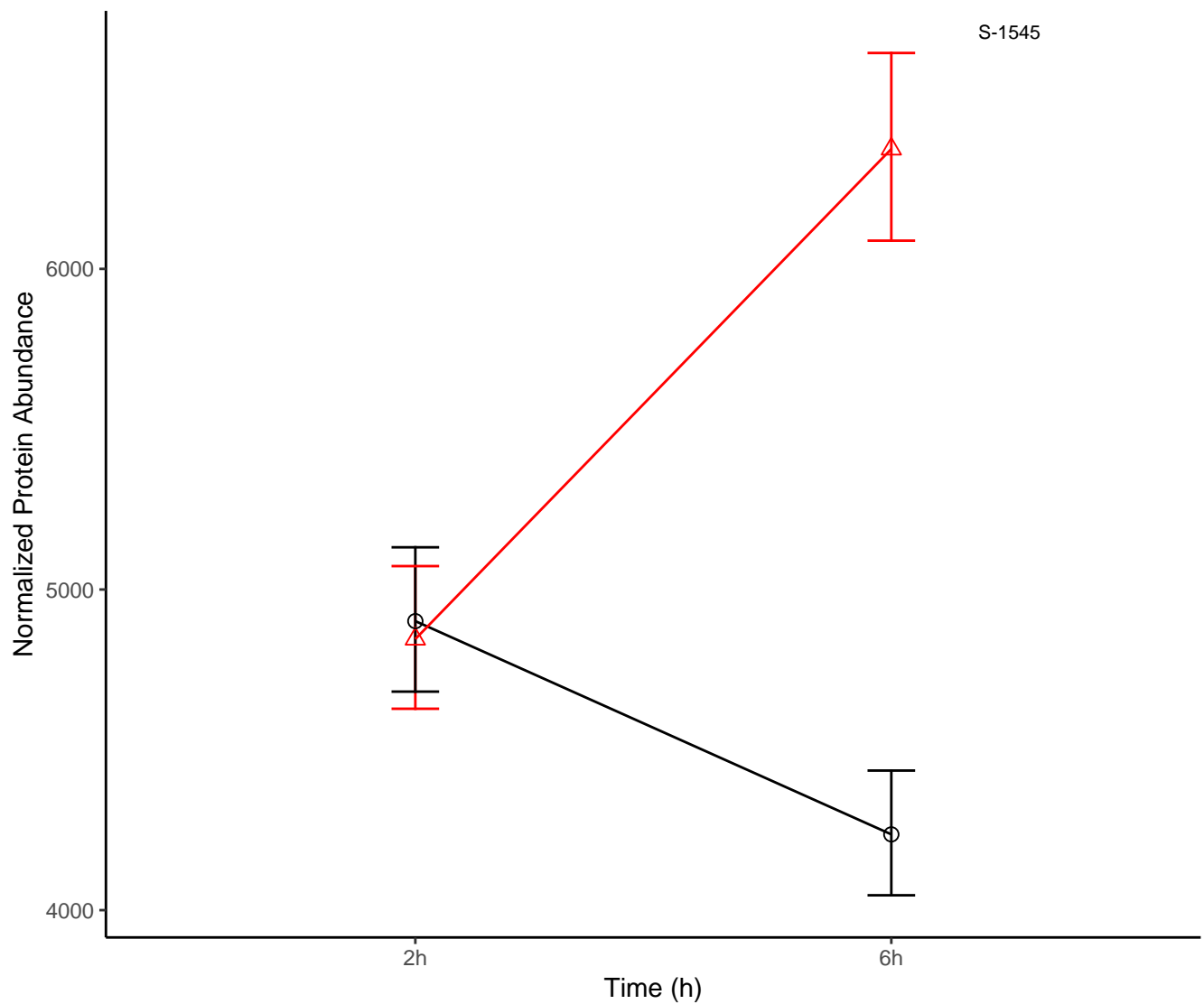
○ TSB-dex

△ TSB



# AZOR\_STAAM

S-1545

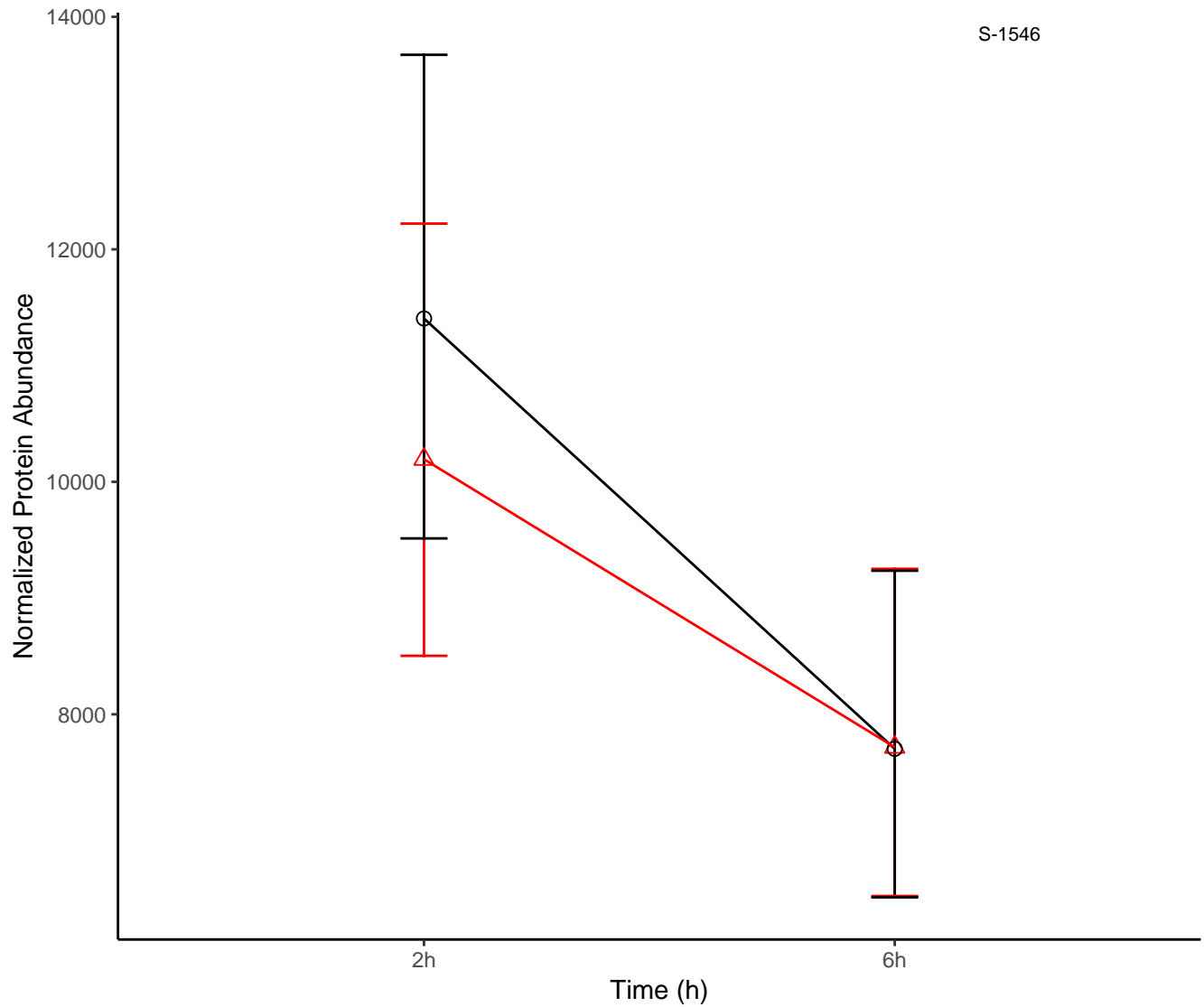


○ TSB-dex

△ TSB

# BSAA\_STAAM

S-1546

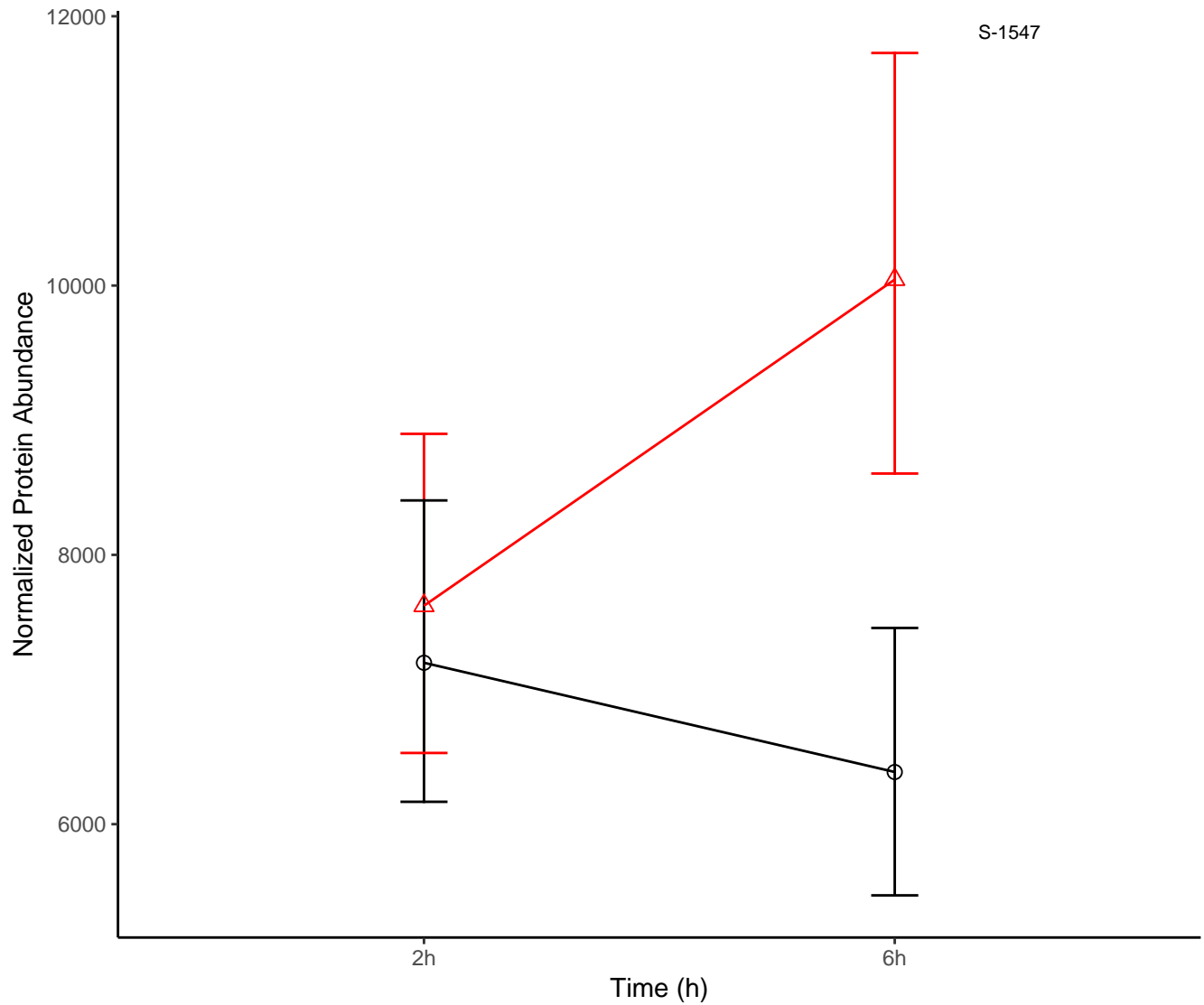


○ TSB-dex

△ TSB

# BUTA\_STAAM

S-1547

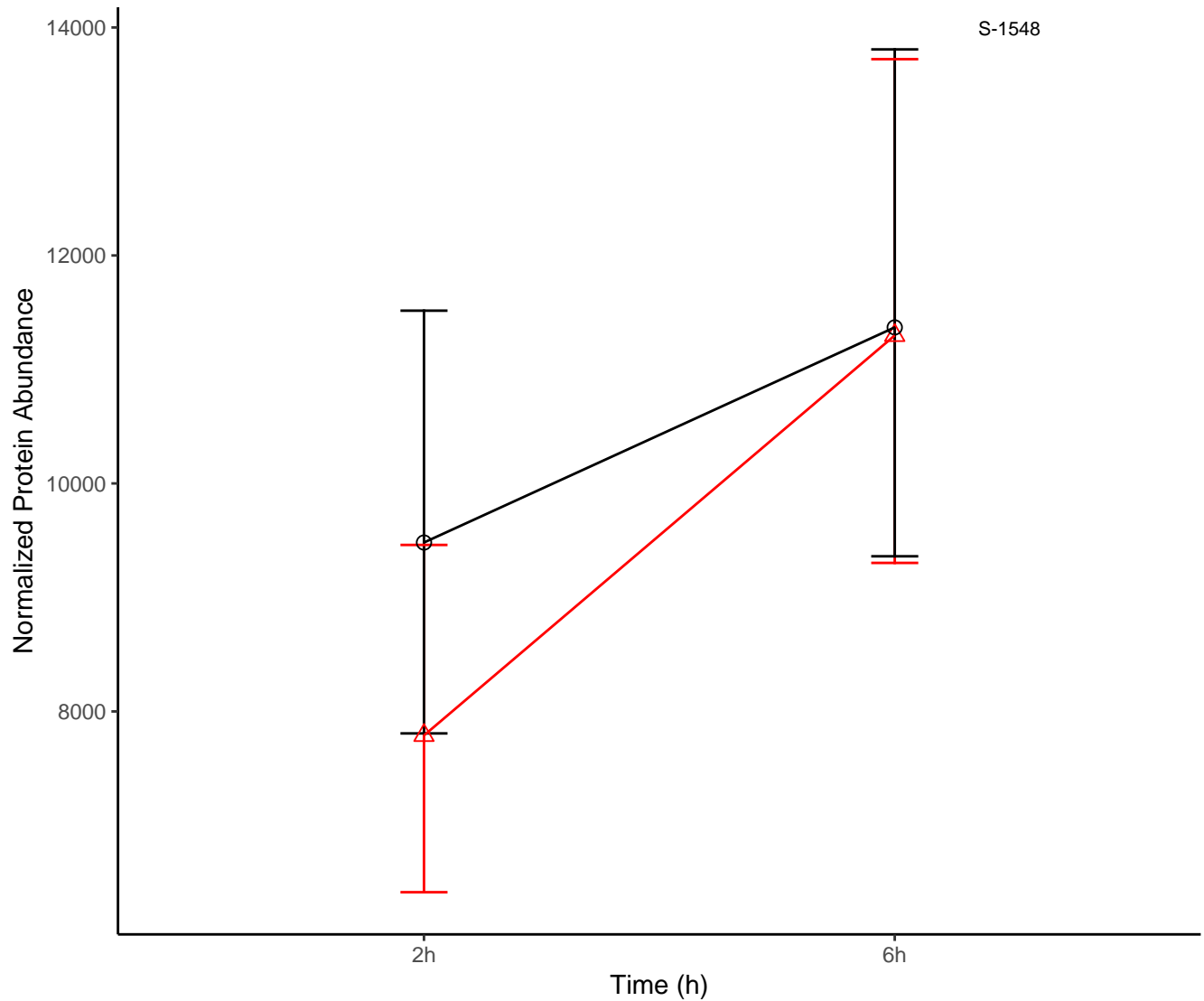


○ TSB-dex

△ TSB

# CARA\_STAAM

S-1548

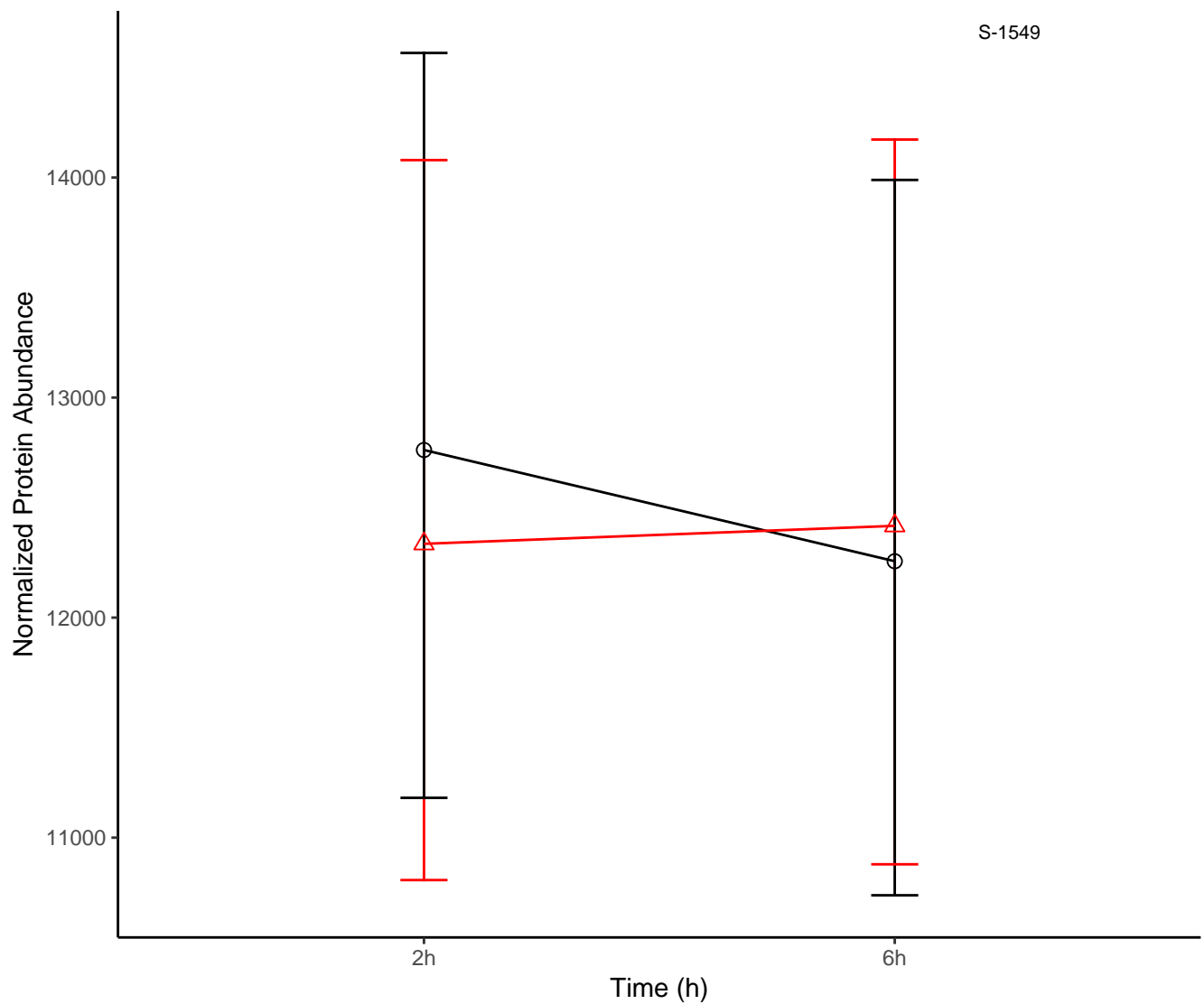


○ TSB-dex

△ TSB

# CARB\_STAAM

S-1549

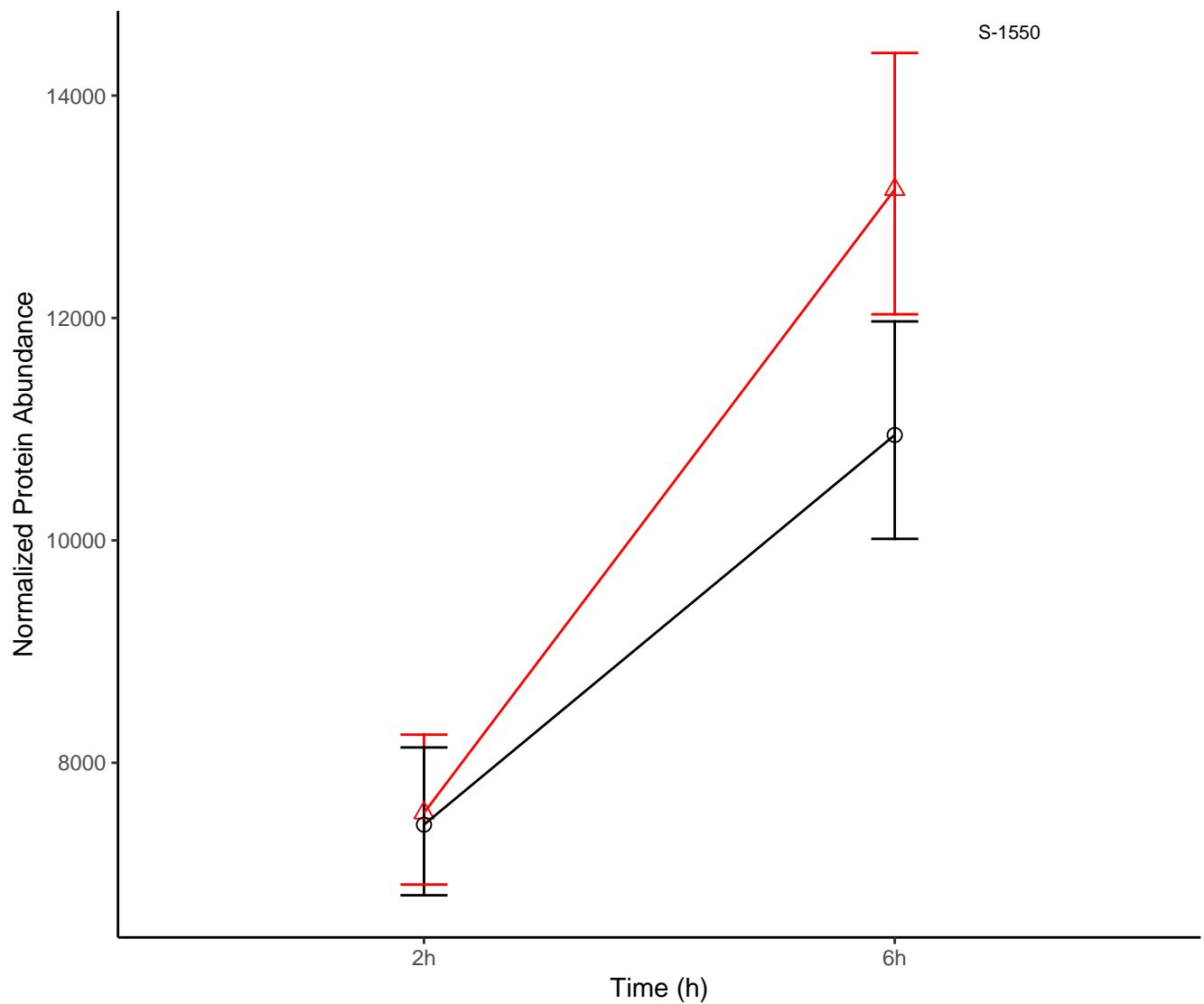


○ TSB-dex

△ TSB

# CATA\_STAAM

S-1550

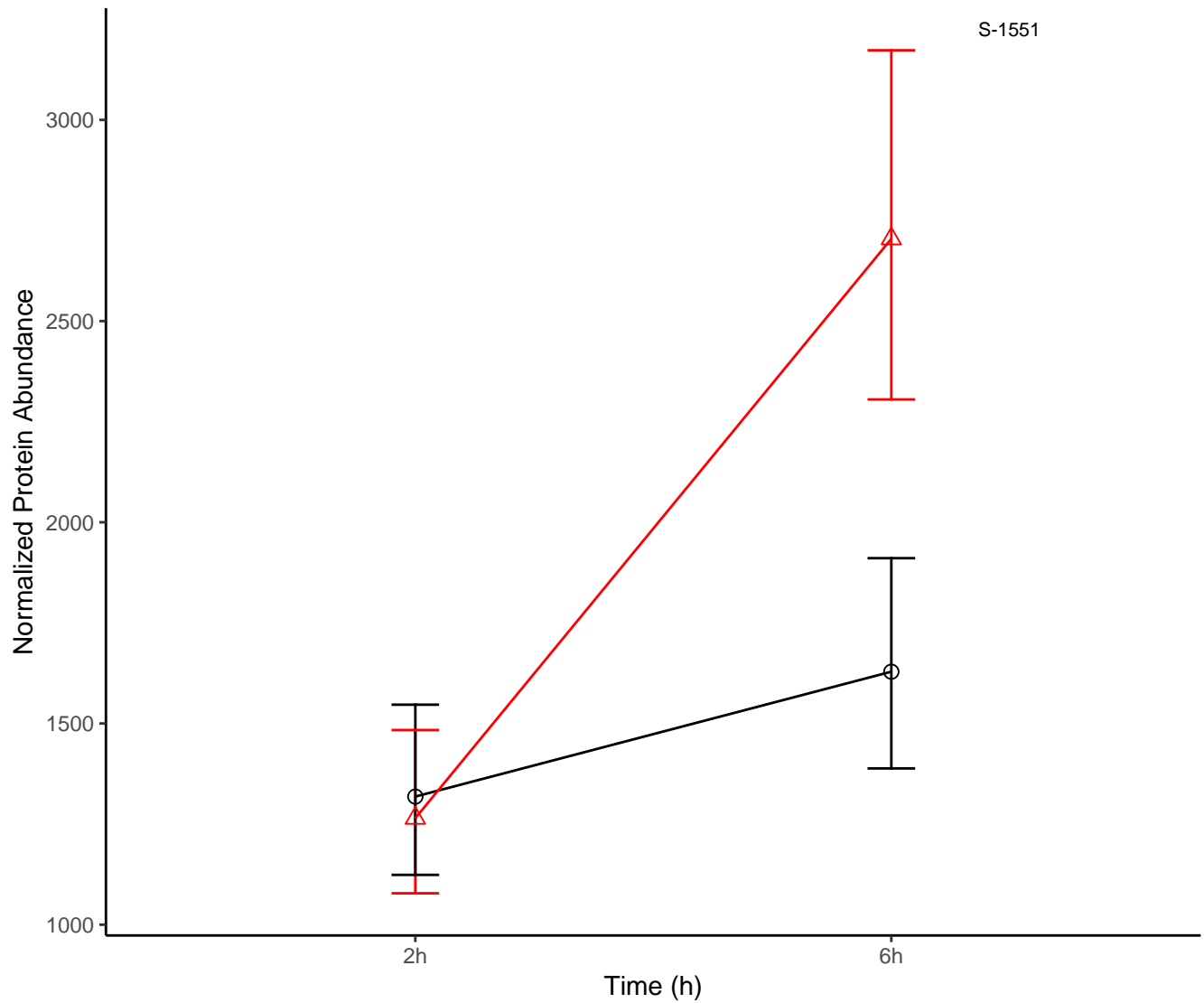


○ TSB-dex

△ TSB

# CCPA\_STAAM

S-1551

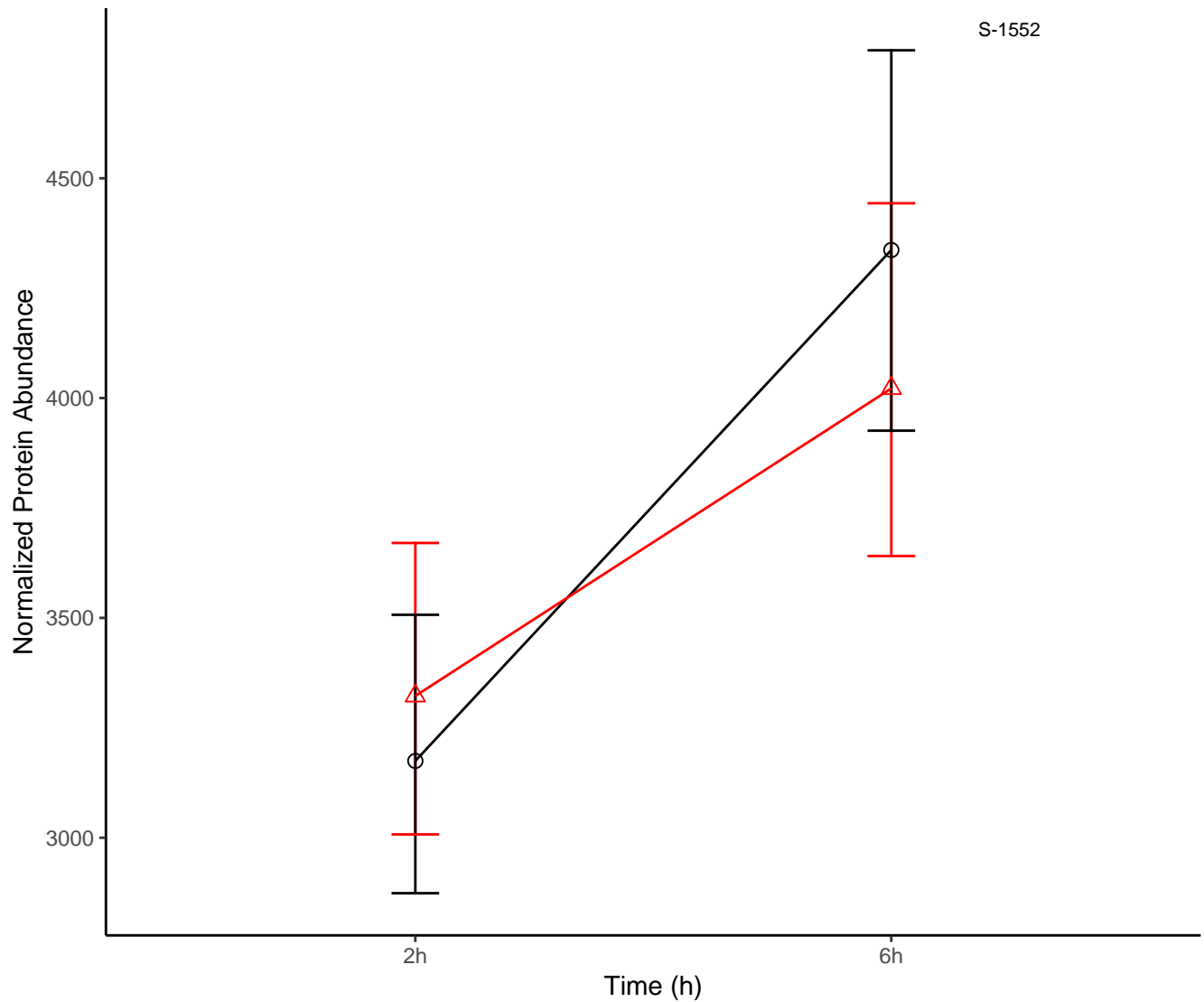


○ TSB-dex

△ TSB

# CDR\_STAAM

S-1552



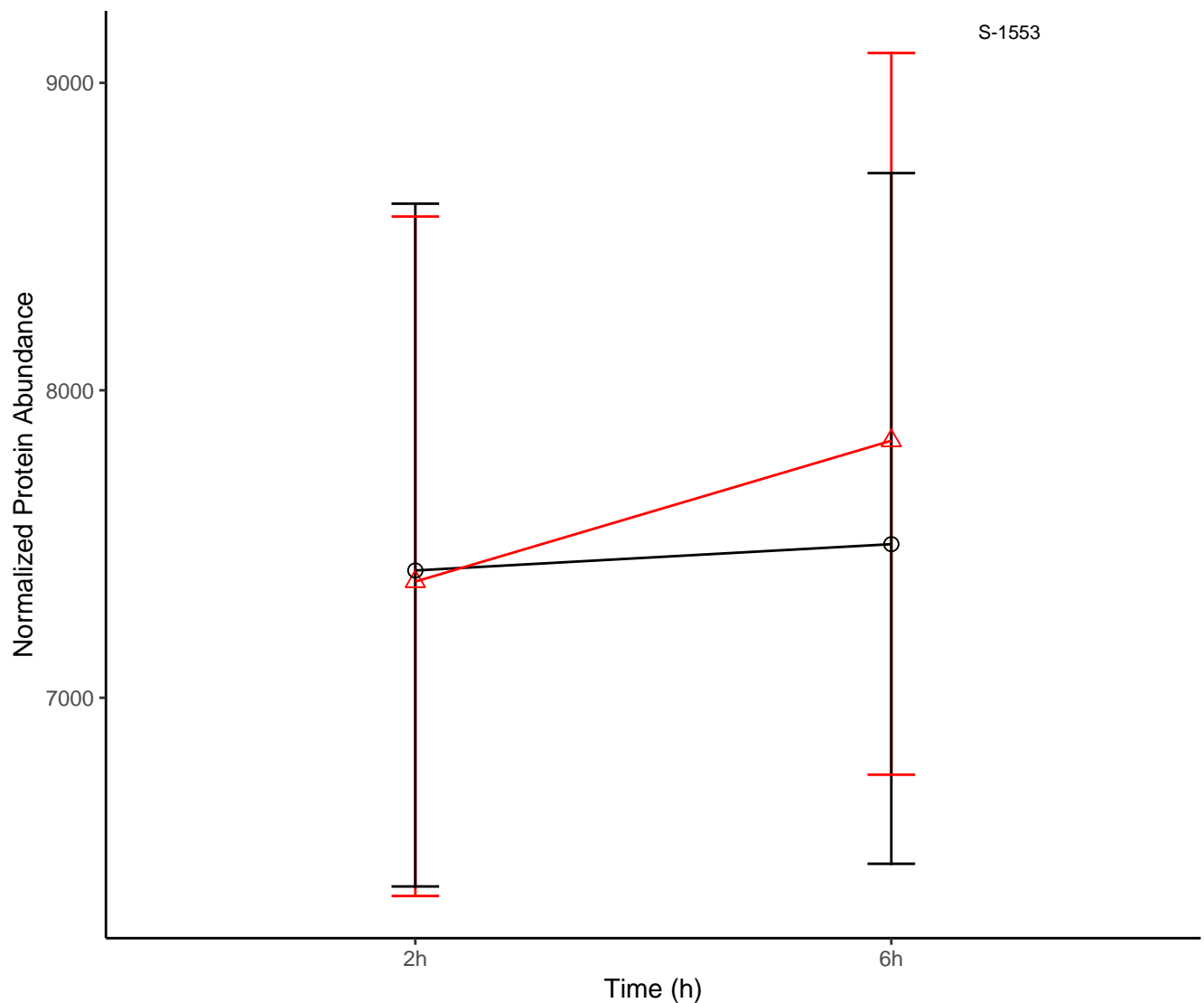
○ TSB-dex

△ TSB



# CH10\_STAAM

S-1553

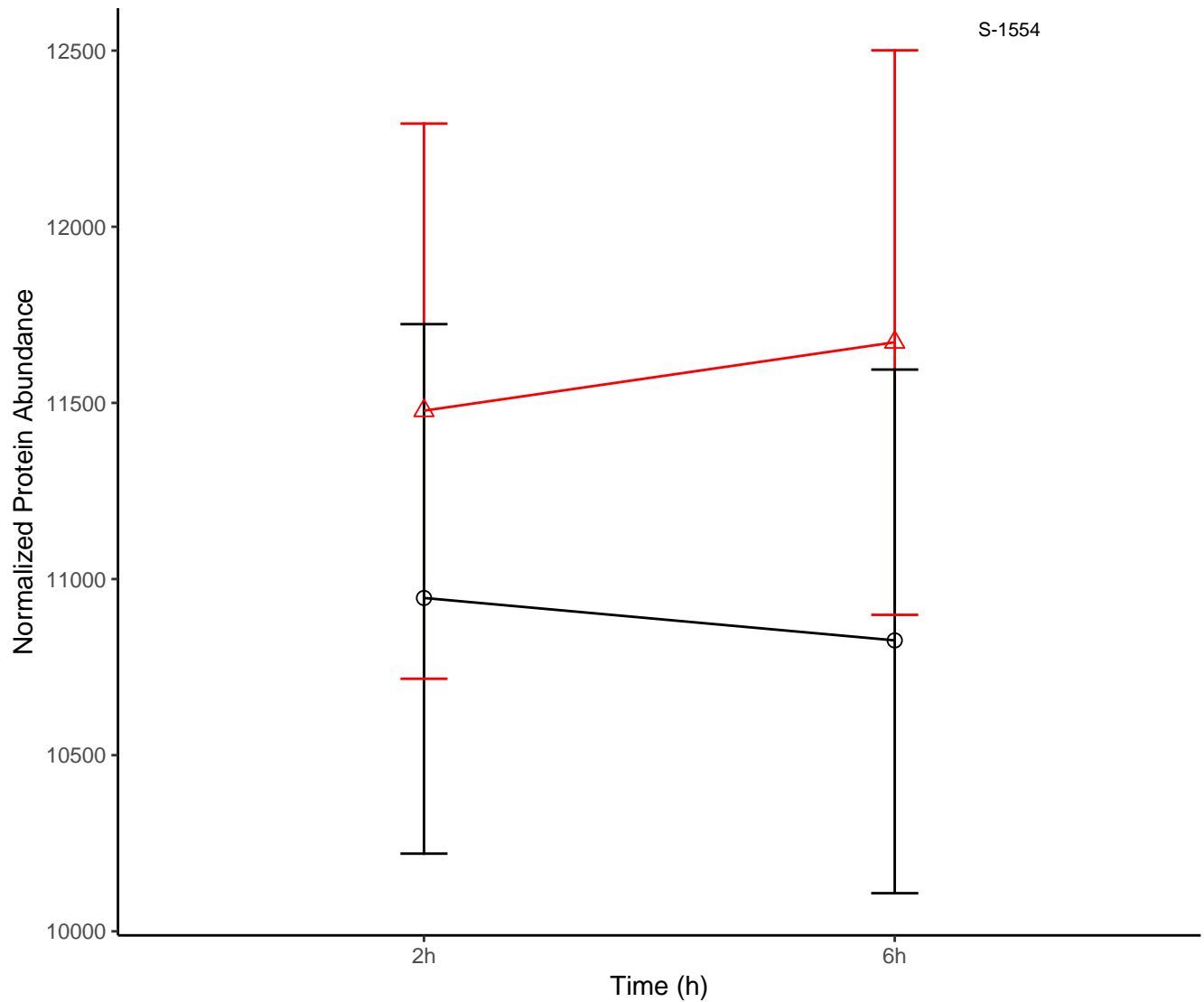


○ TSB-dex

△ TSB

# CH60\_STAAM

S-1554

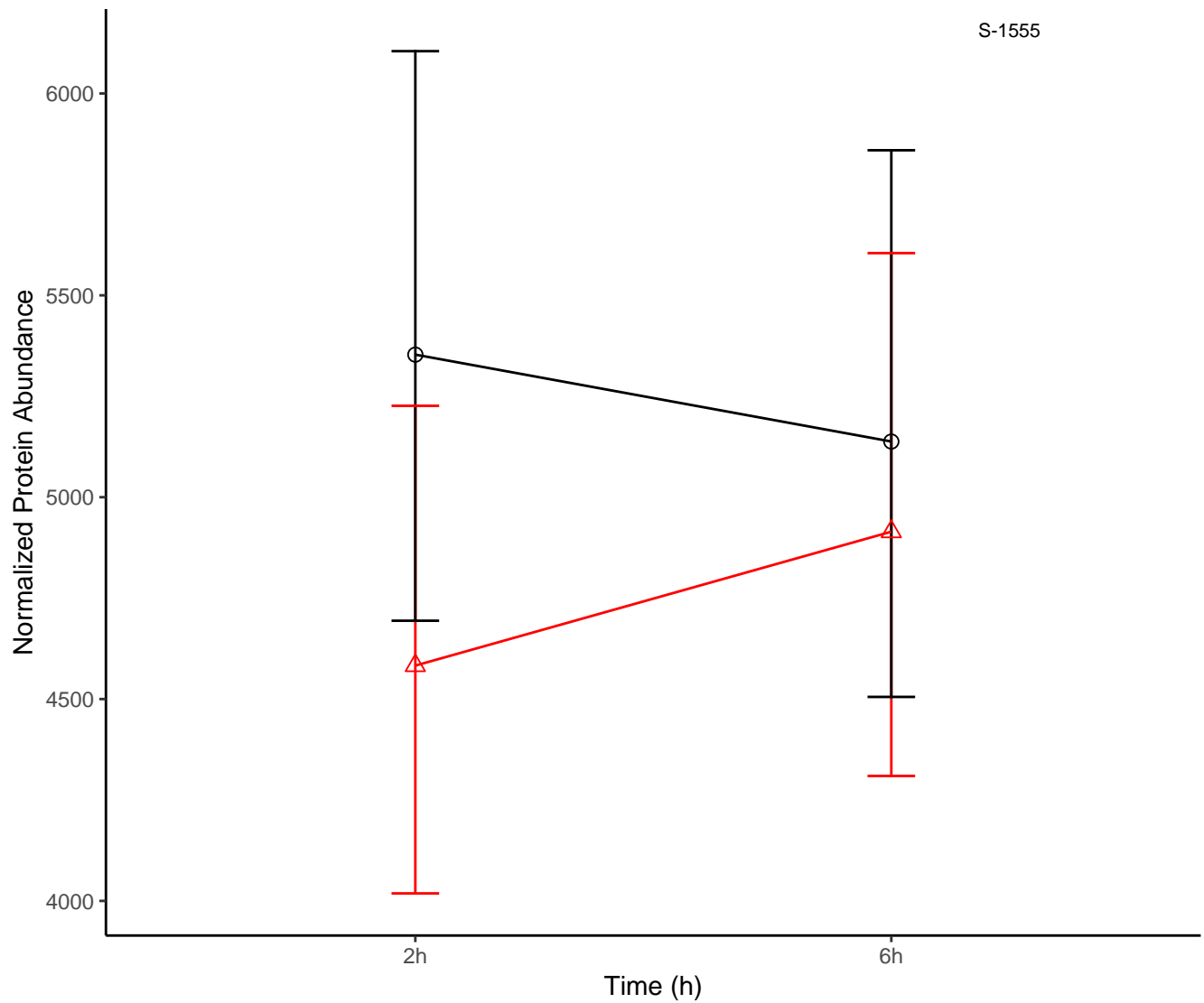


○ TSB-dex

△ TSB

# CLPB\_STAAM

S-1555

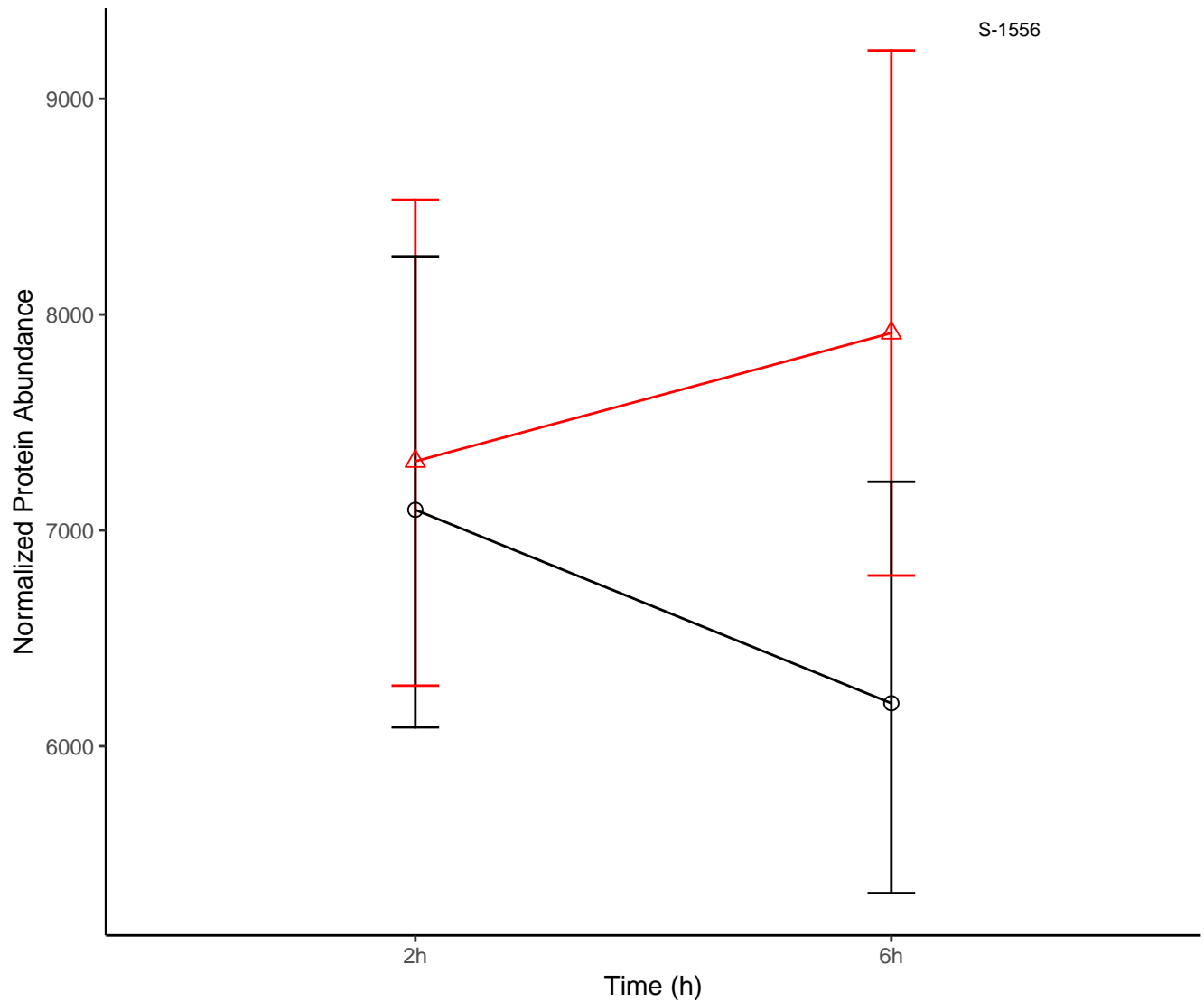


○ TSB-dex

△ TSB

# CLPC\_STAAM

S-1556

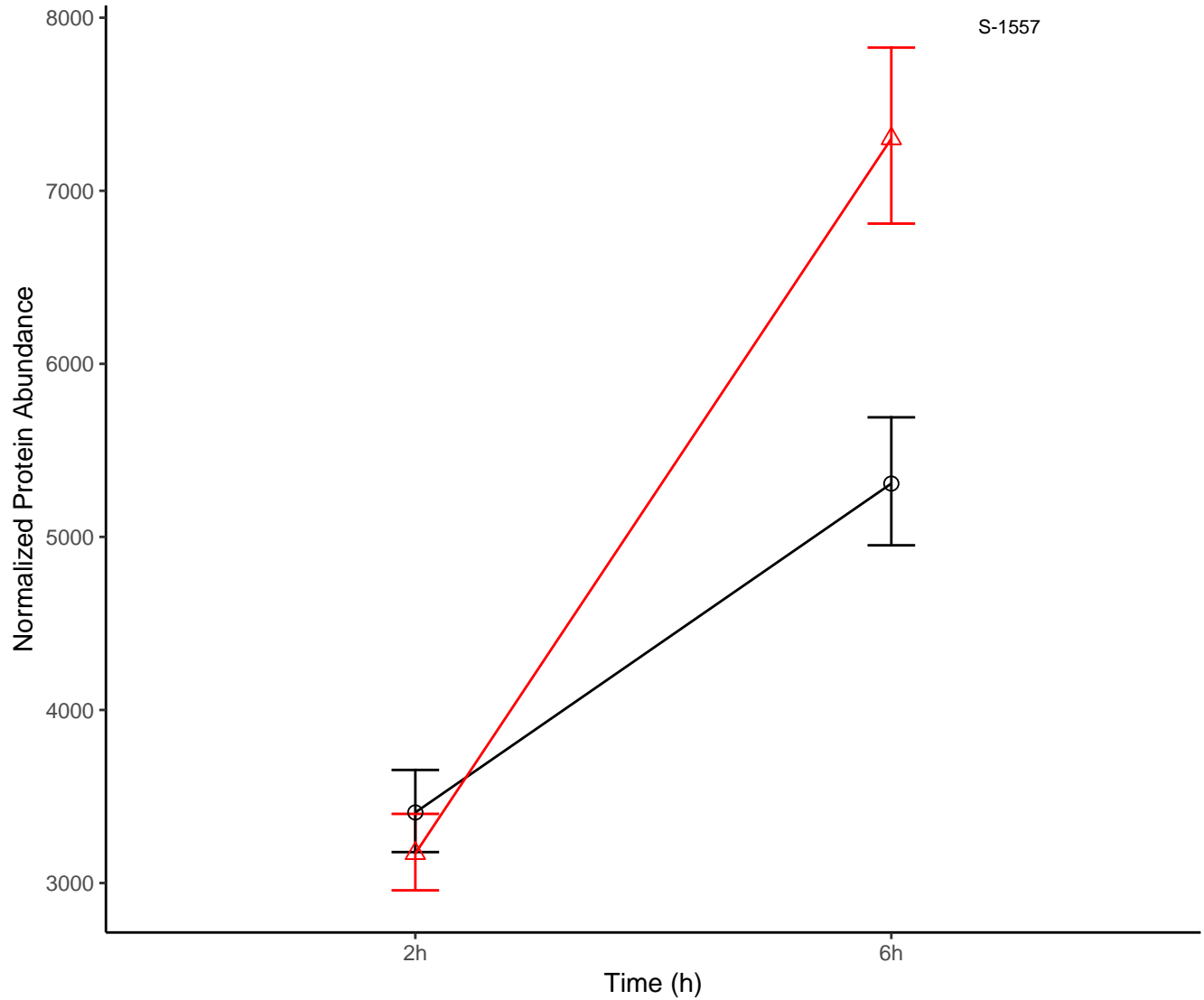


○ TSB-dex

△ TSB

# CLPL\_STAAM

S-1557

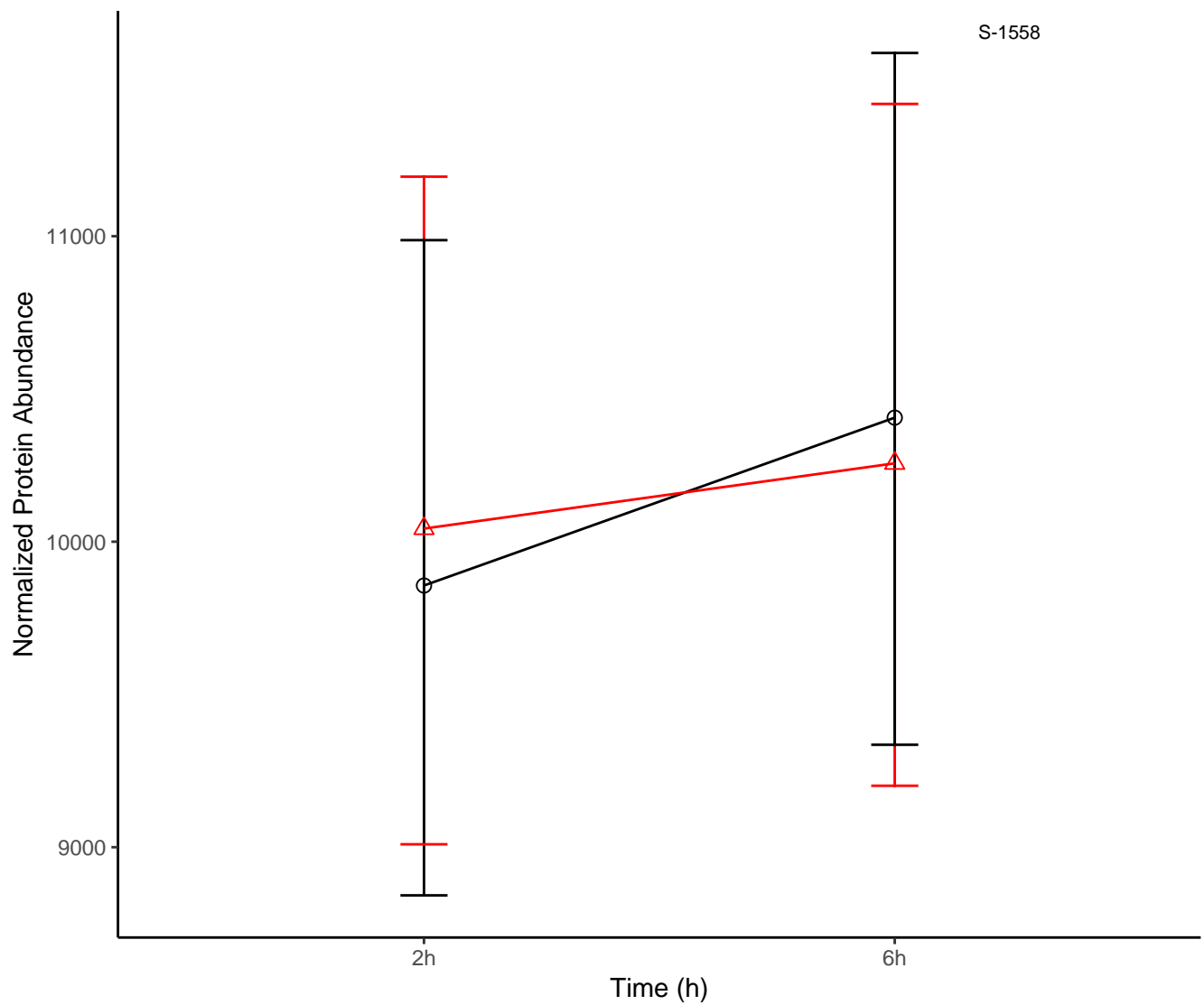


○ TSB-dex

△ TSB

# CLPP\_STAAM

S-1558

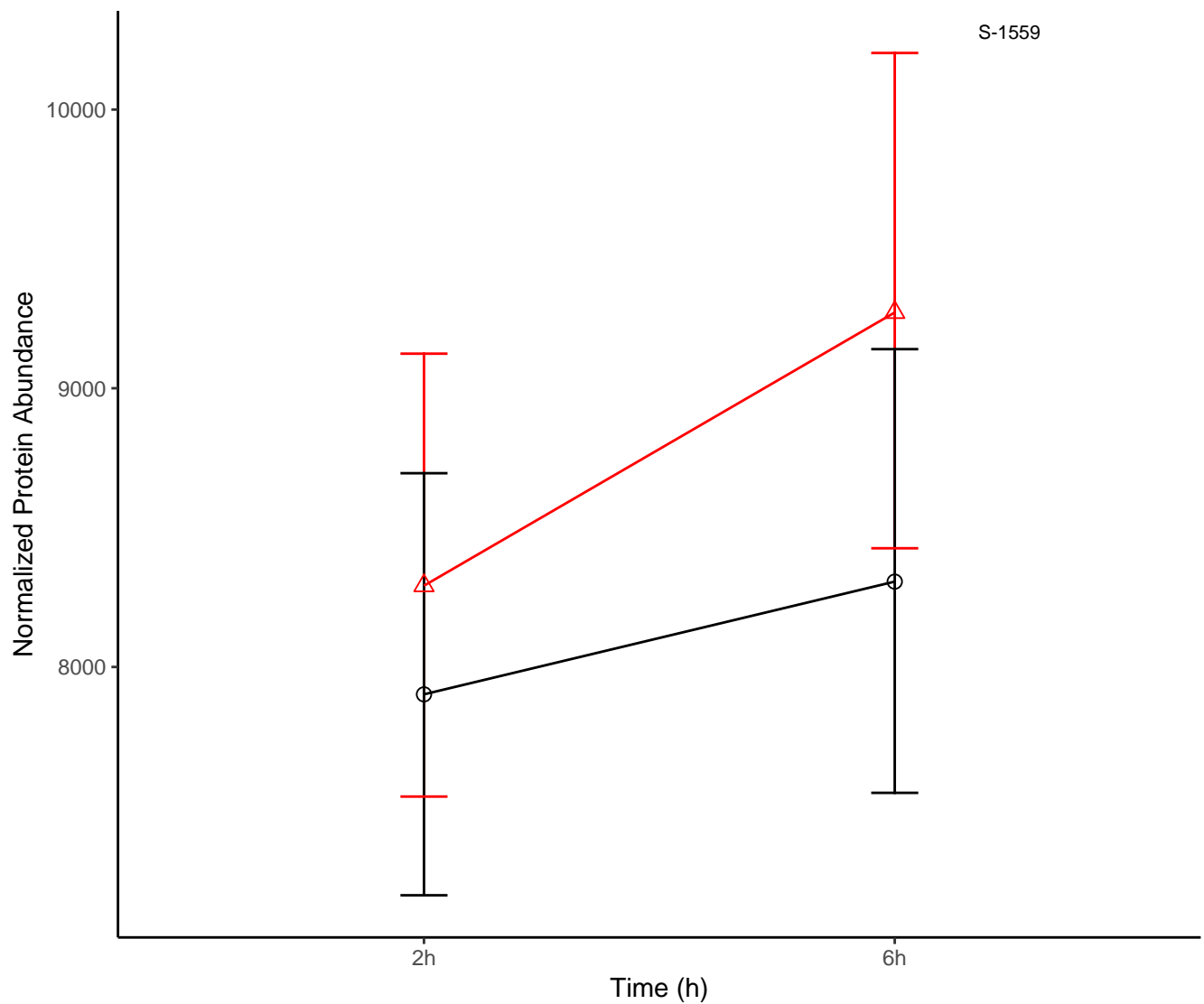


○ TSB-dex

△ TSB

# CLPX\_STAAM

S-1559

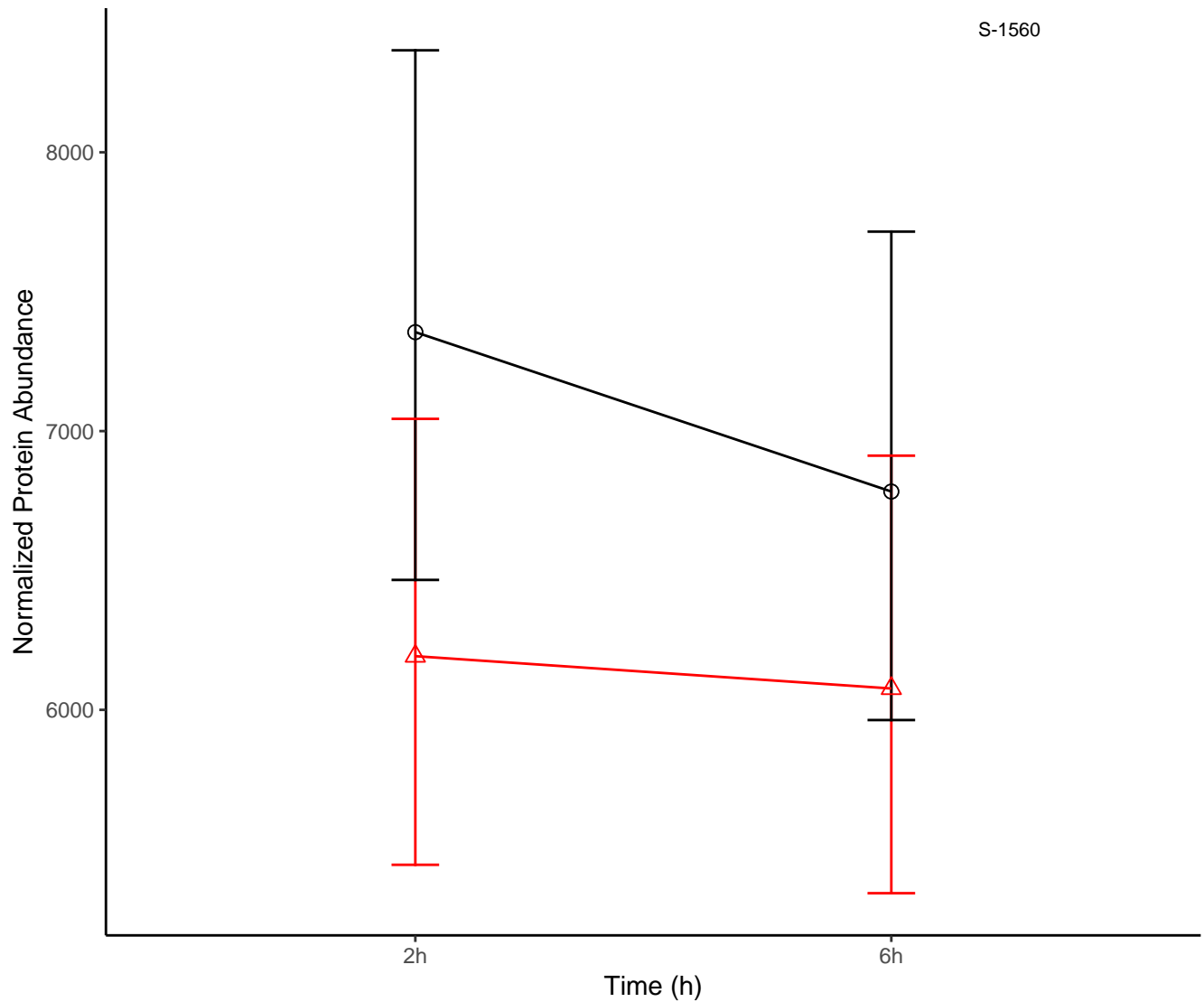


○ TSB-dex

△ TSB

# CODY\_STAAM

S-1560



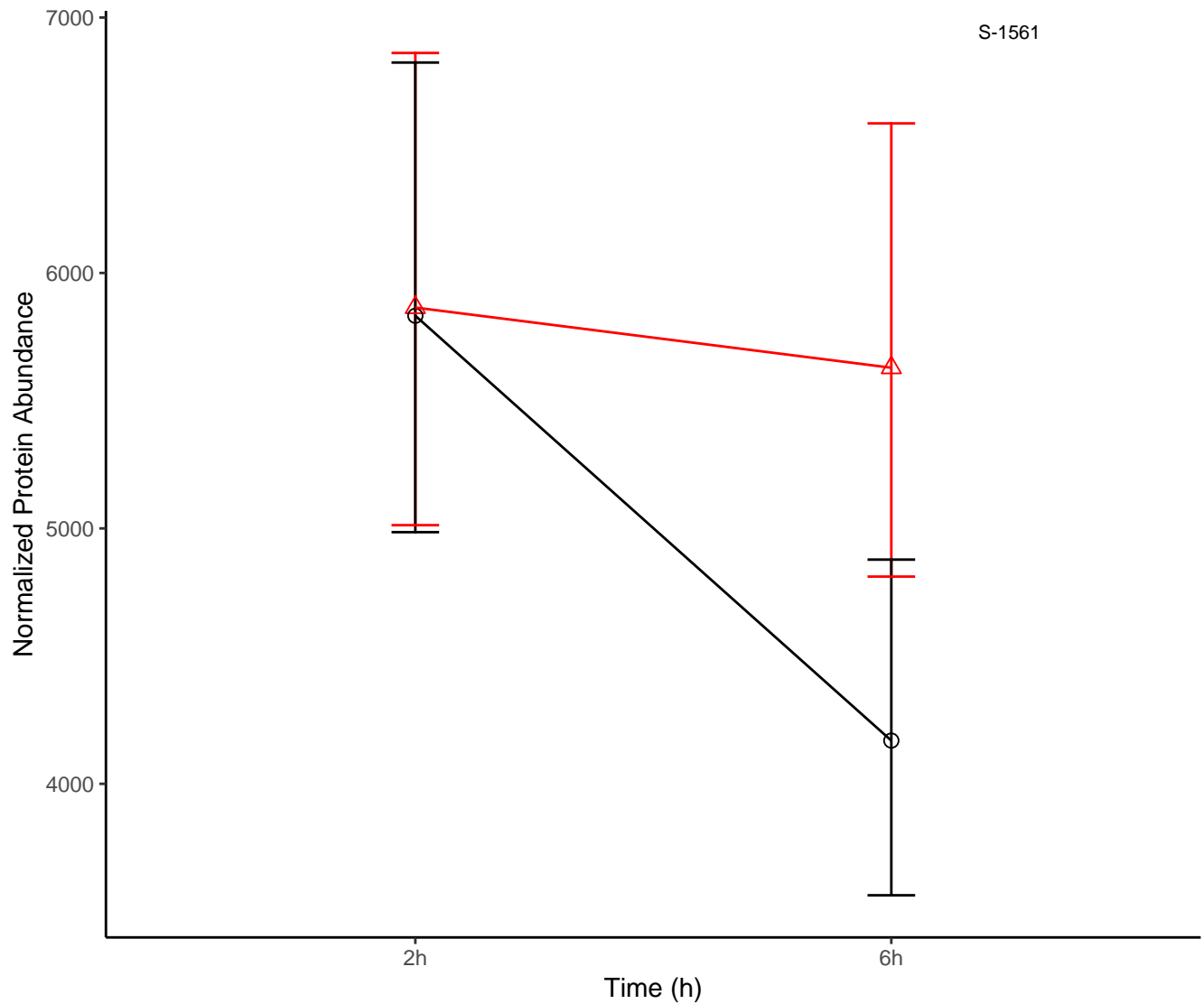
○ TSB-dex

△ TSB



# COPZ\_STAAM

S-1561



○ TSB-dex

△ TSB

# CRTN\_STAAM

S-1562

Normalized Protein Abundance

2000

1500

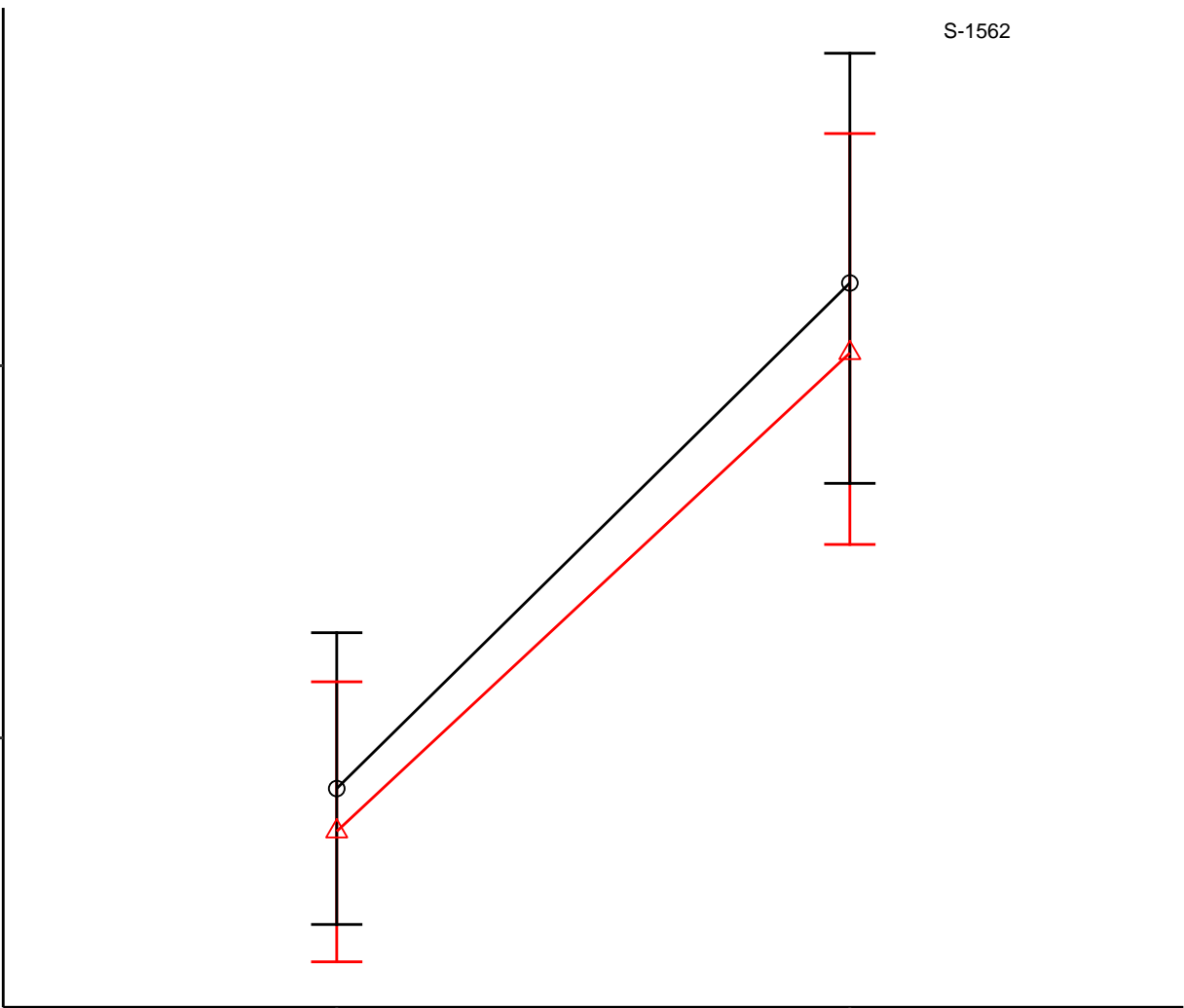
2h

6h

Time (h)

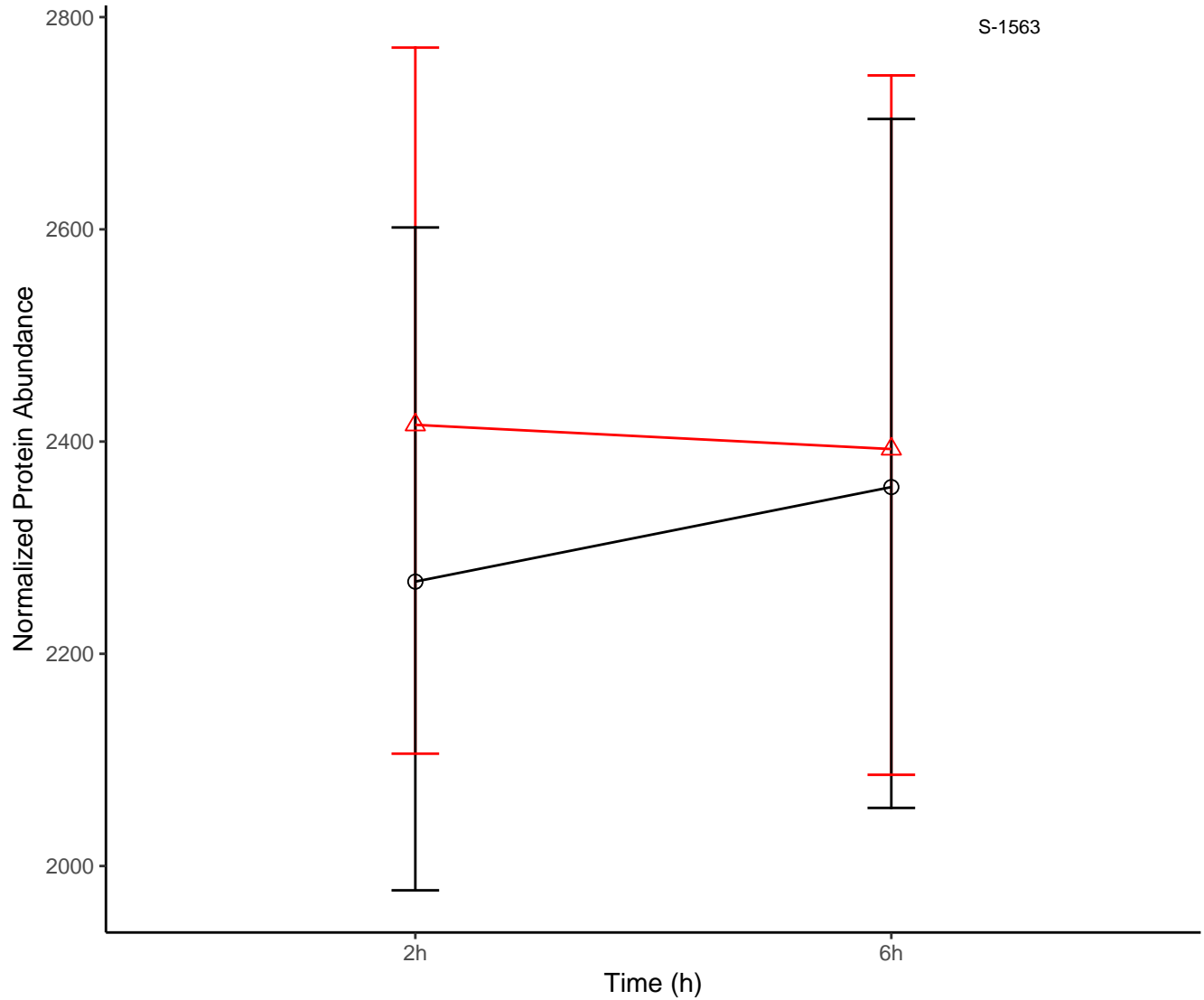
○ TSB-dex

△ TSB



# CSD\_STAAM

S-1563

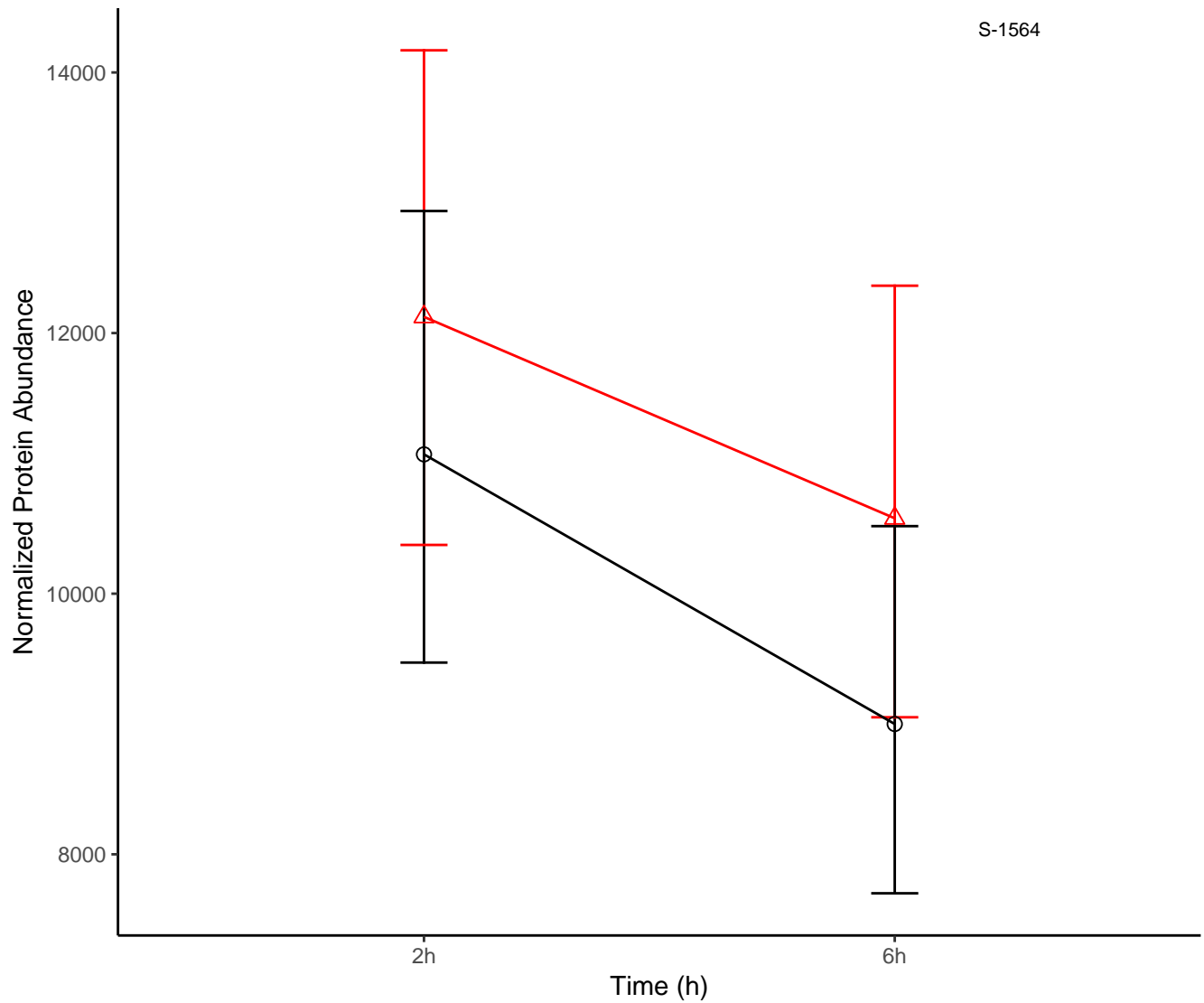


○ TSB-dex

△ TSB

# CSHA\_STAAM

S-1564

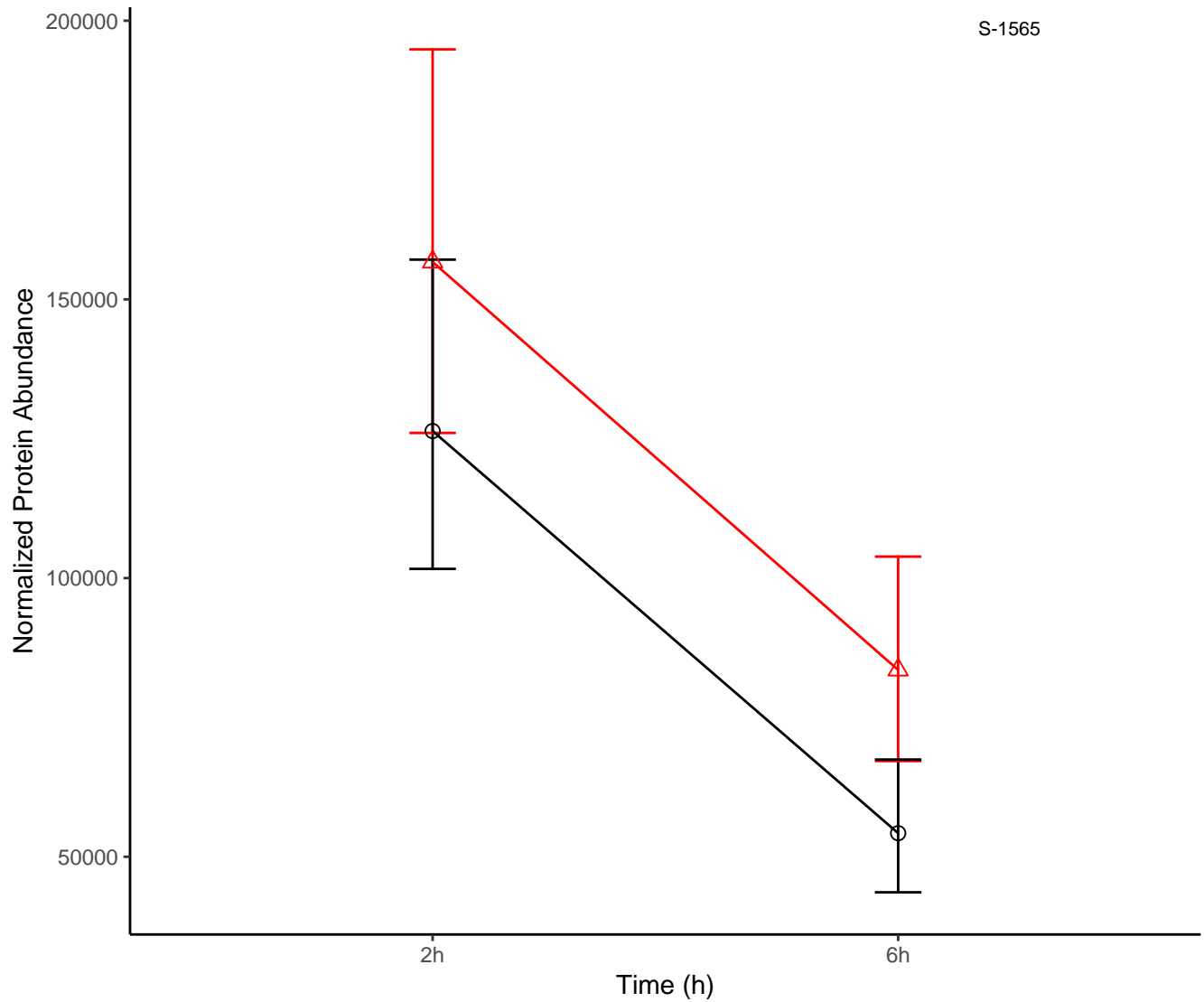


○ TSB-dex

△ TSB

# CSPA\_STAAM

S-1565

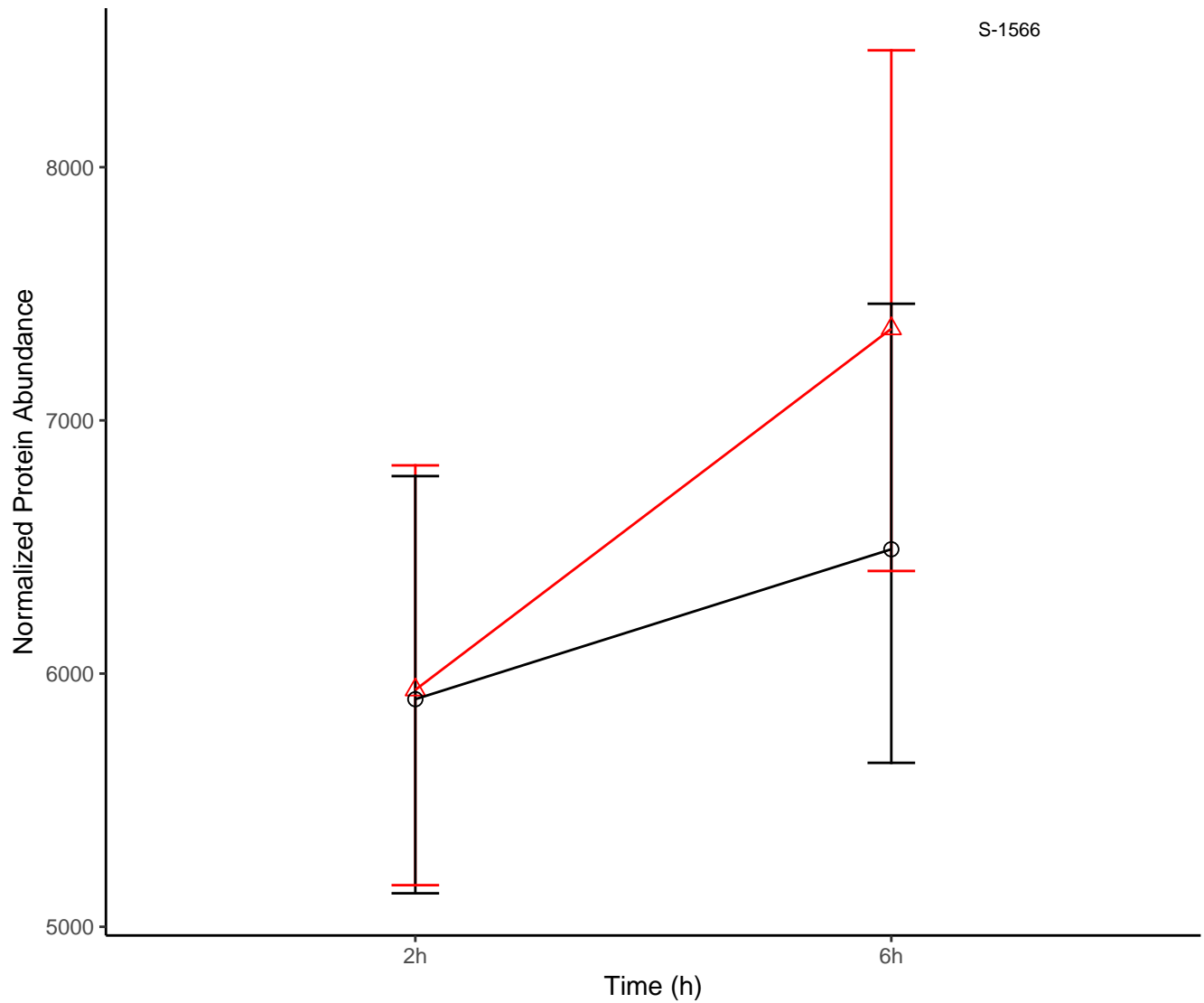


○ TSB-dex

△ TSB

# CTPAL\_STAAM

S-1566

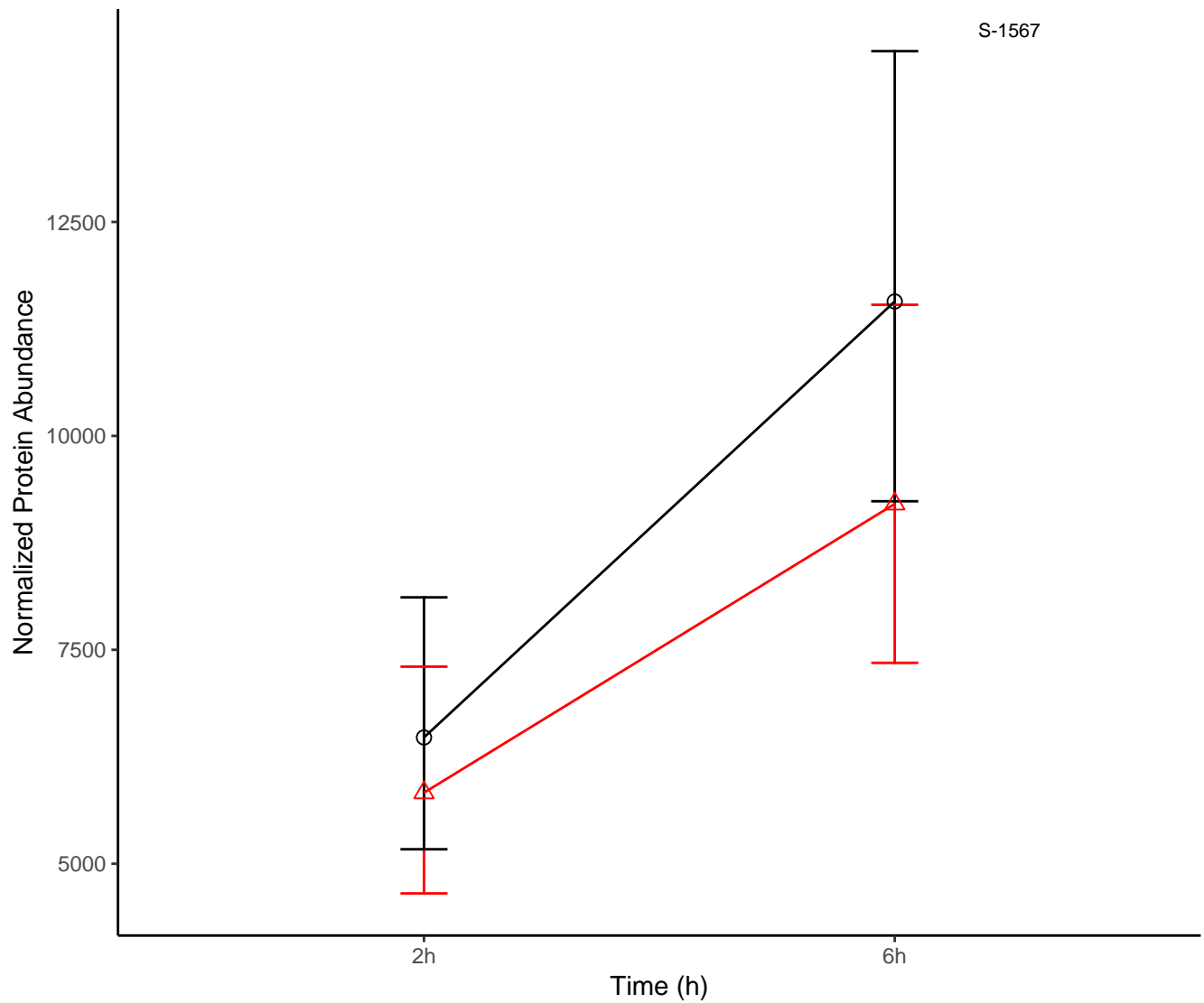


○ TSB-dex

△ TSB

# CVFB\_STAAM

S-1567

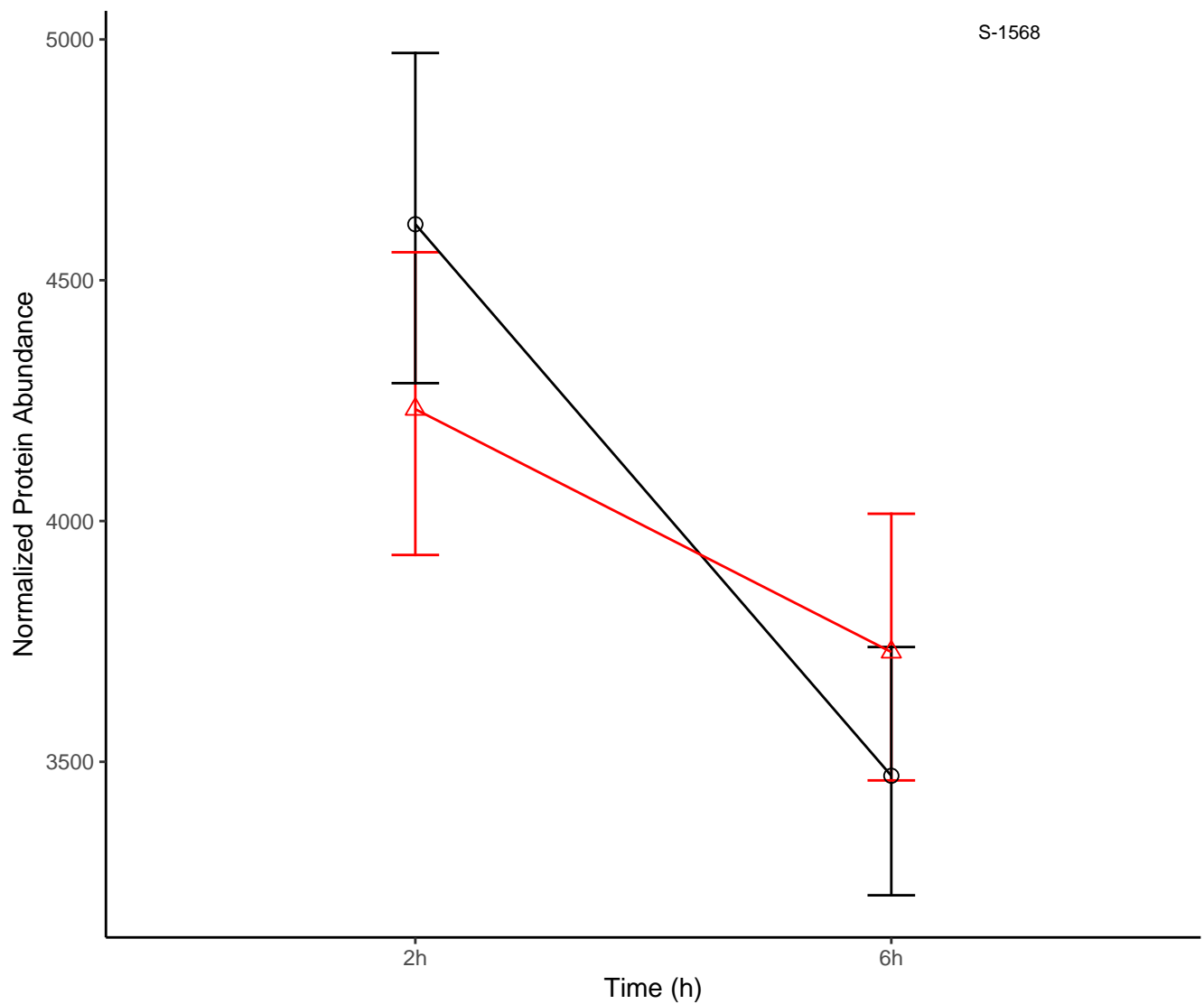


○ TSB-dex

△ TSB

# CYSE\_STAAM

S-1568



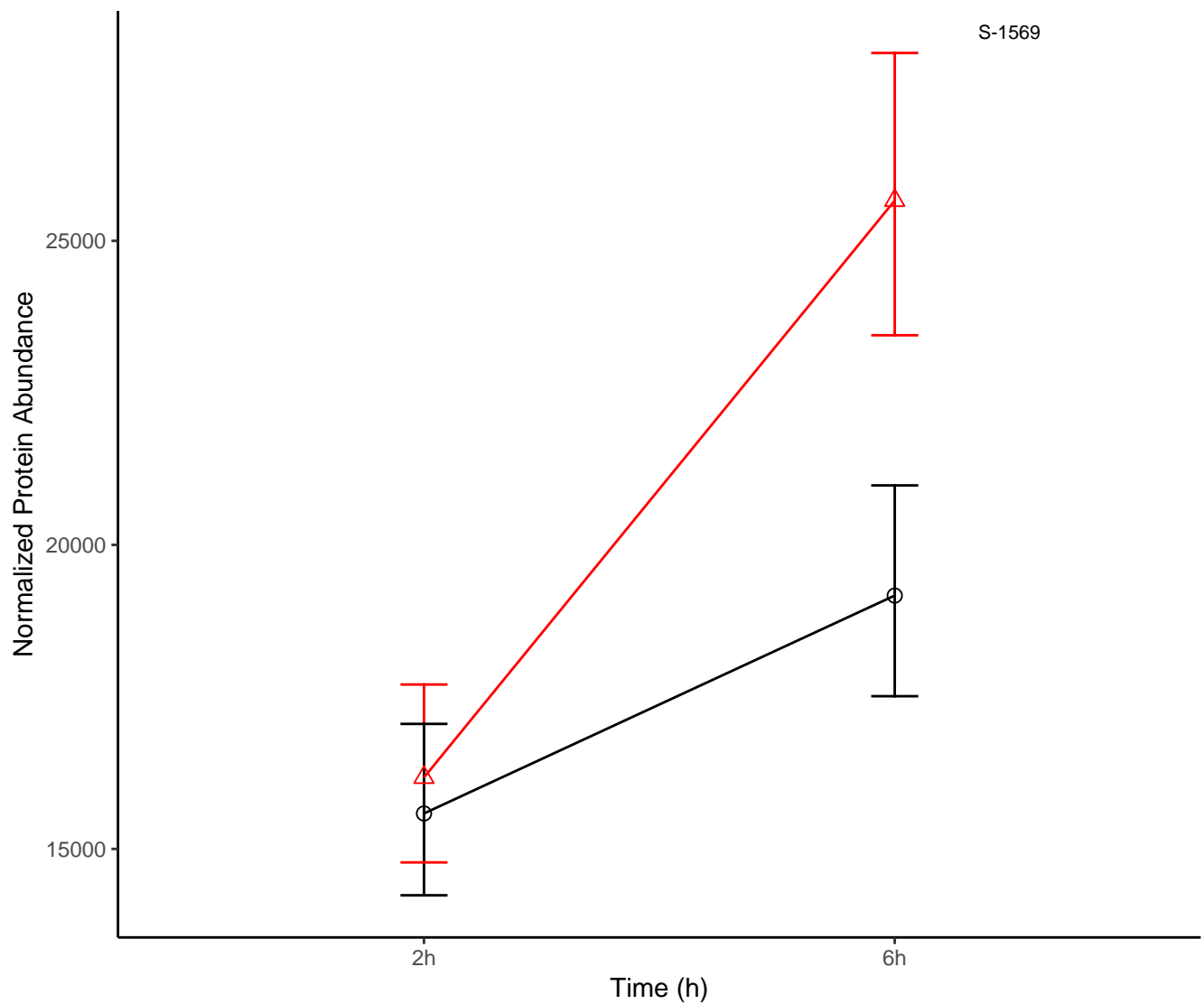
○ TSB-dex

△ TSB



# CYSK\_STAAM

S-1569

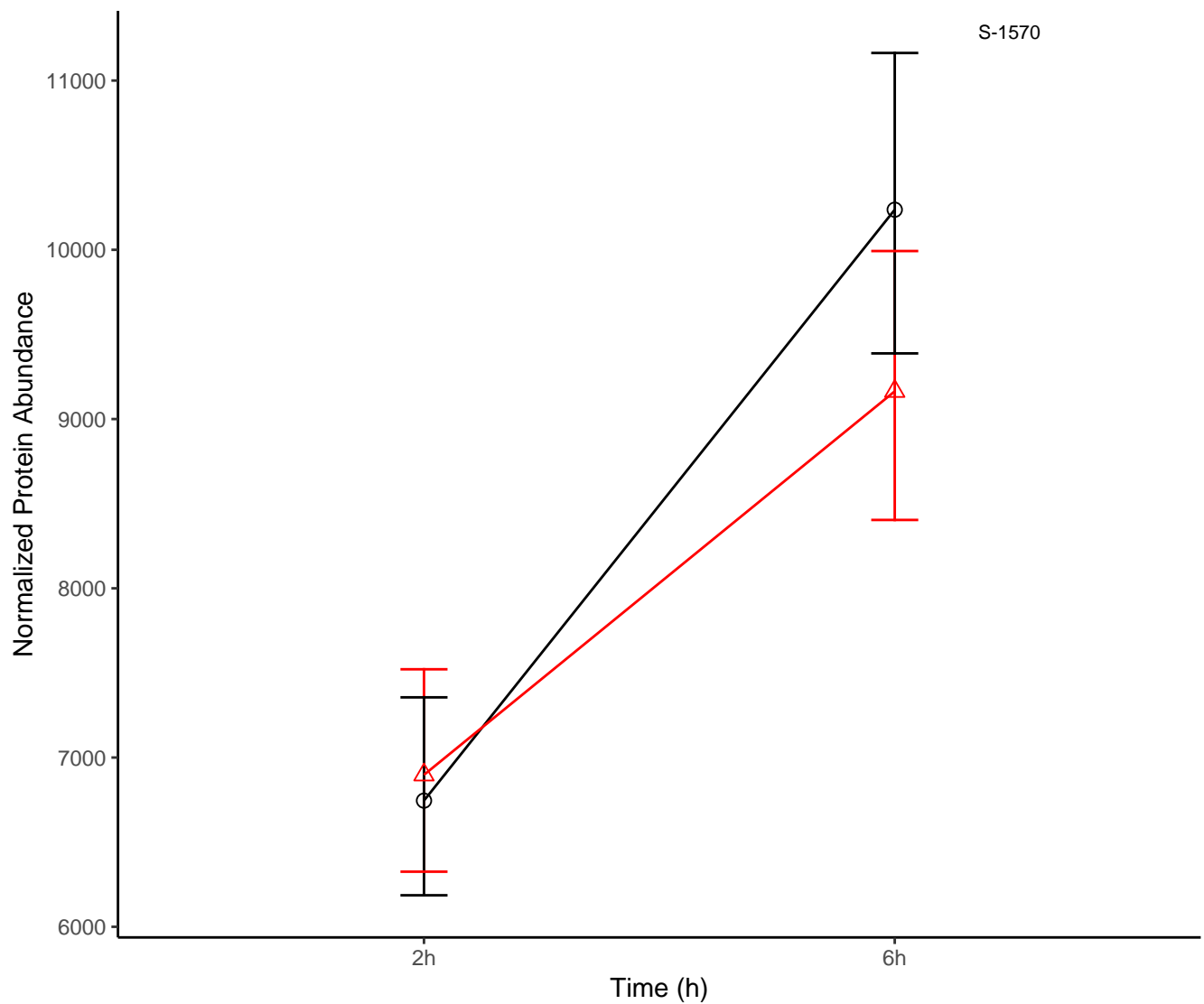


○ TSB-dex

△ TSB

# DAAA\_STAAM

S-1570

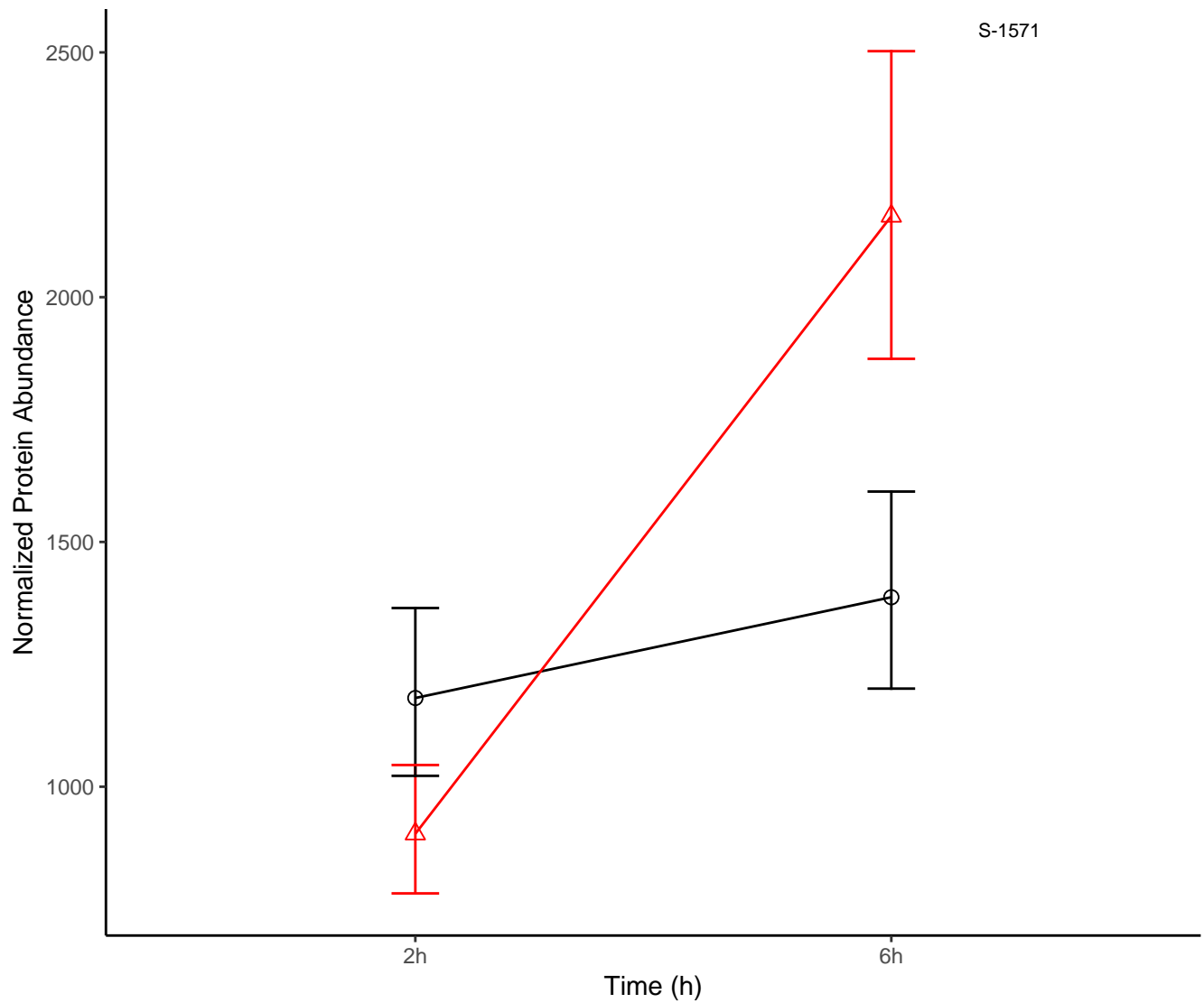


○ TSB-dex

△ TSB

# DAPB\_STAAM

S-1571

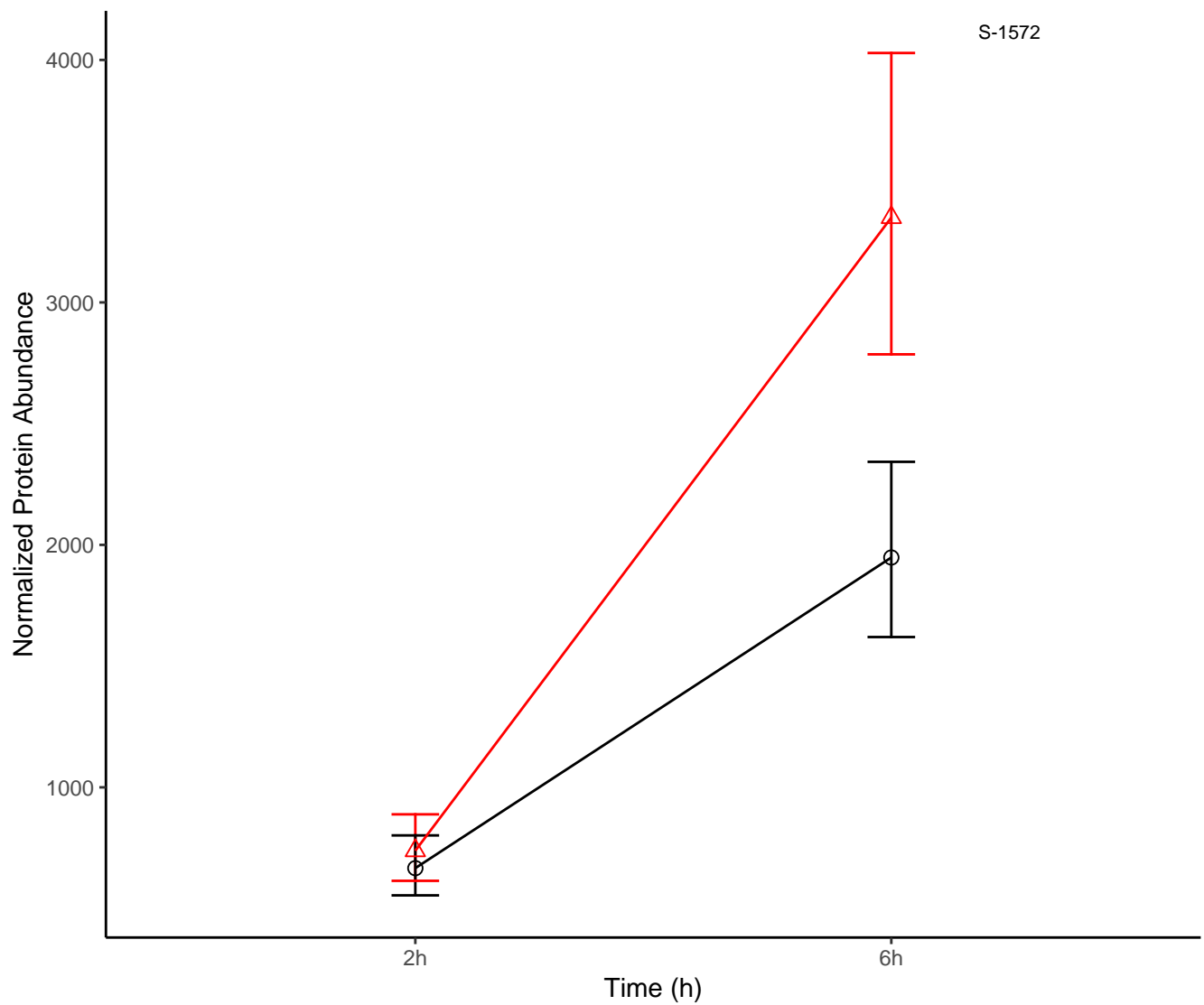


○ TSB-dex

△ TSB

# DAPH\_STAAM

S-1572

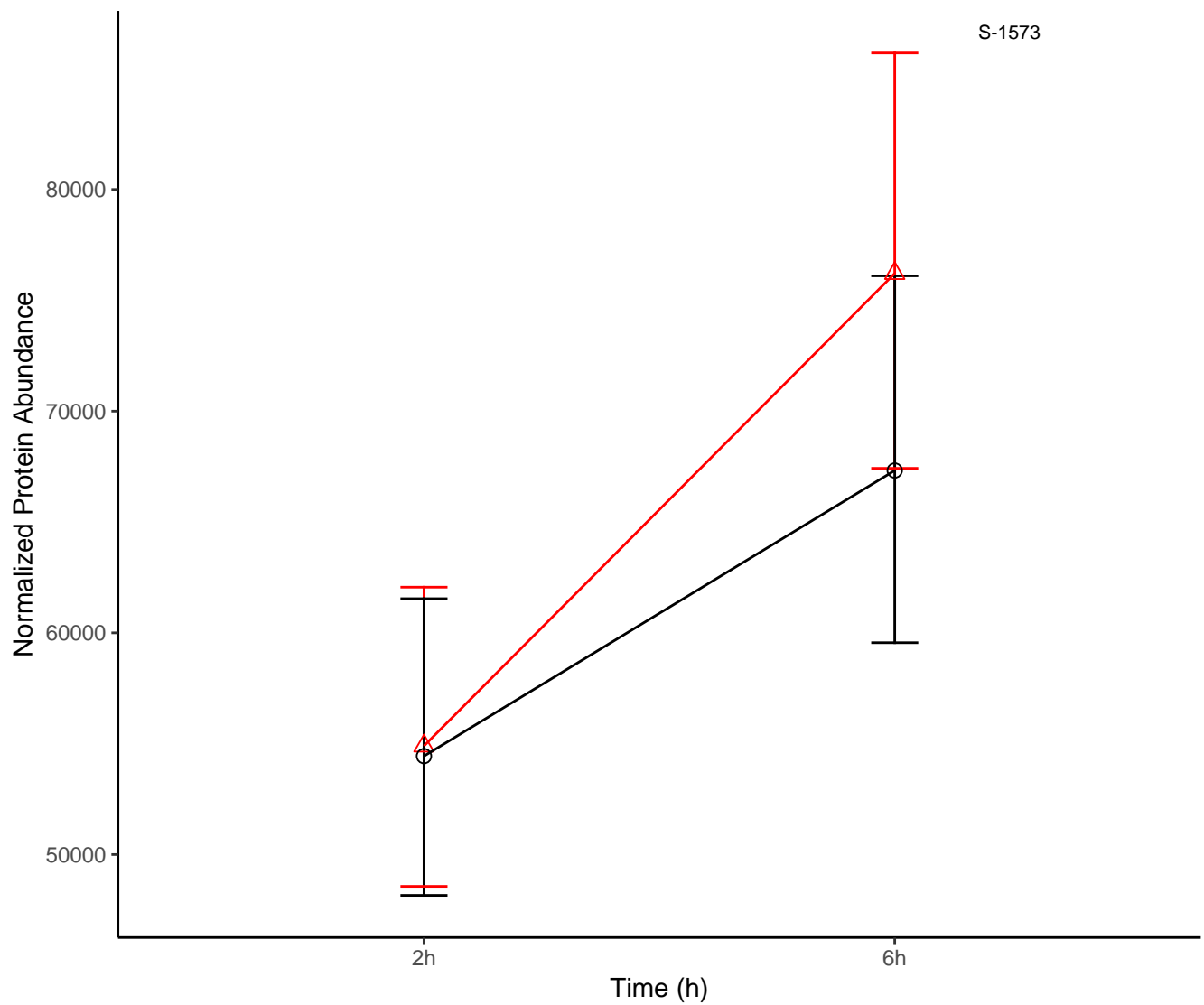


○ TSB-dex

△ TSB

# DBH\_STAAM

S-1573

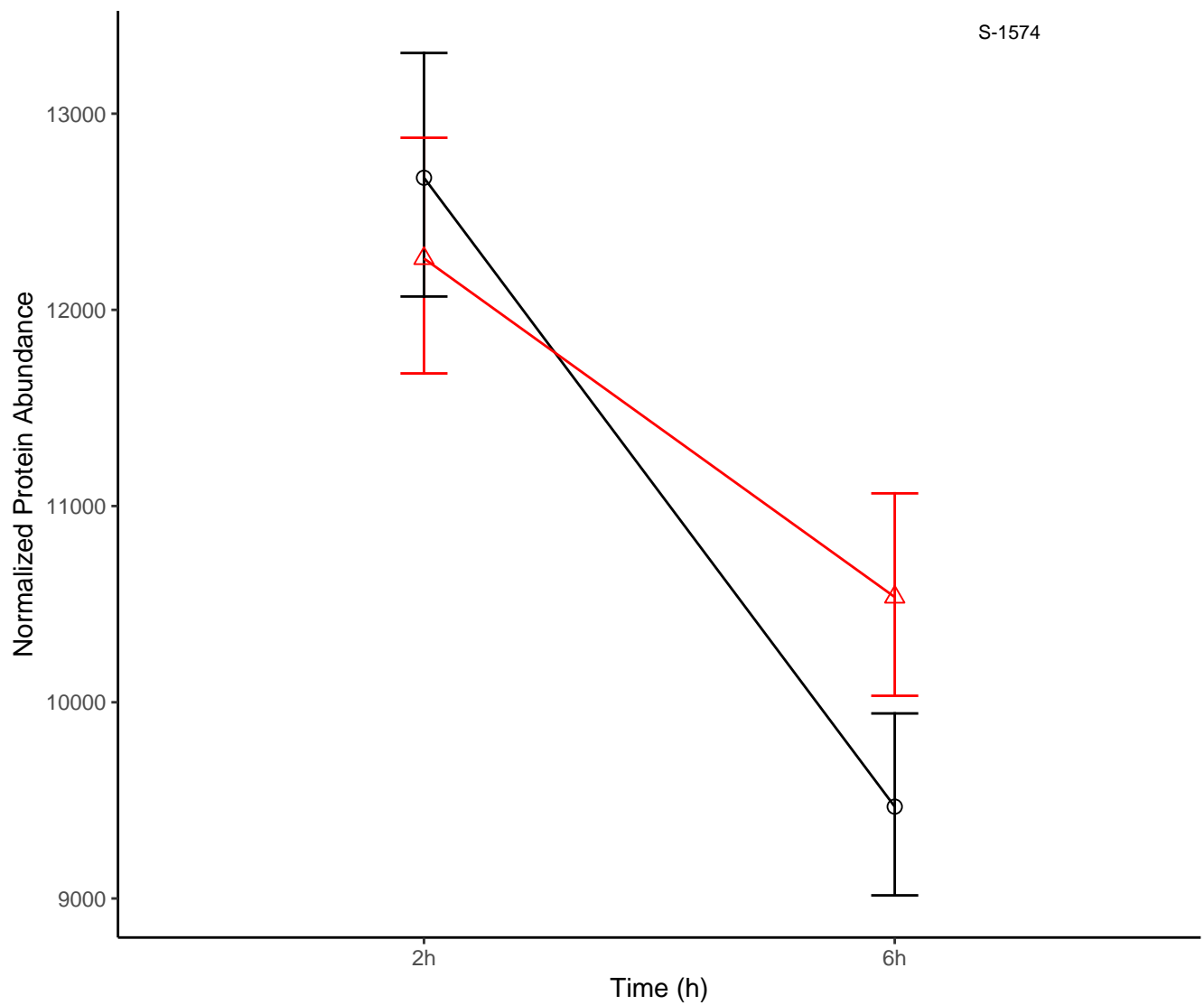


○ TSB-dex

△ TSB

# DCUP\_STAAM

S-1574

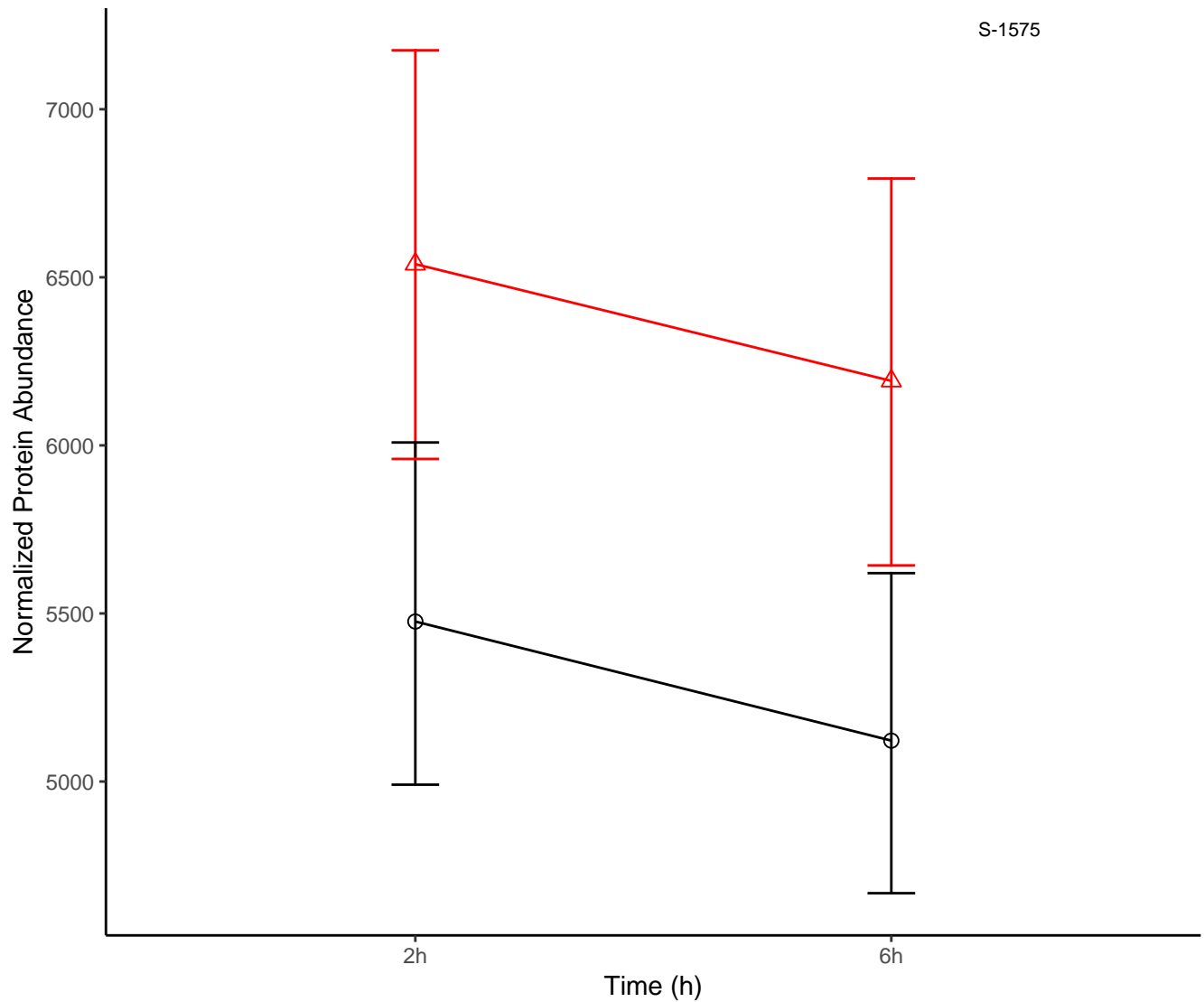


○ TSB-dex

△ TSB

# DDL\_STAAM

S-1575

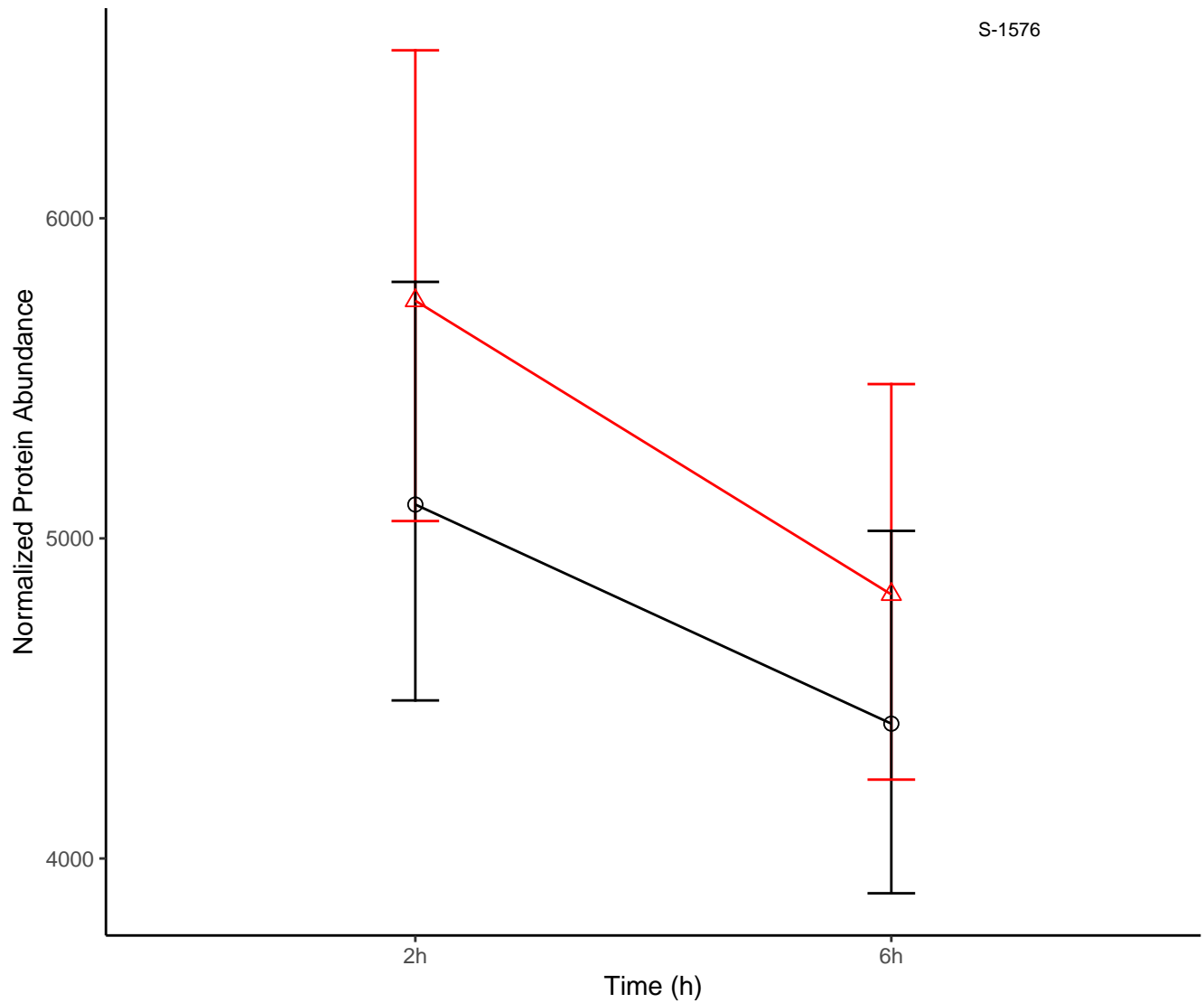


○ TSB-dex

△ TSB

# DEF\_STAAM

S-1576



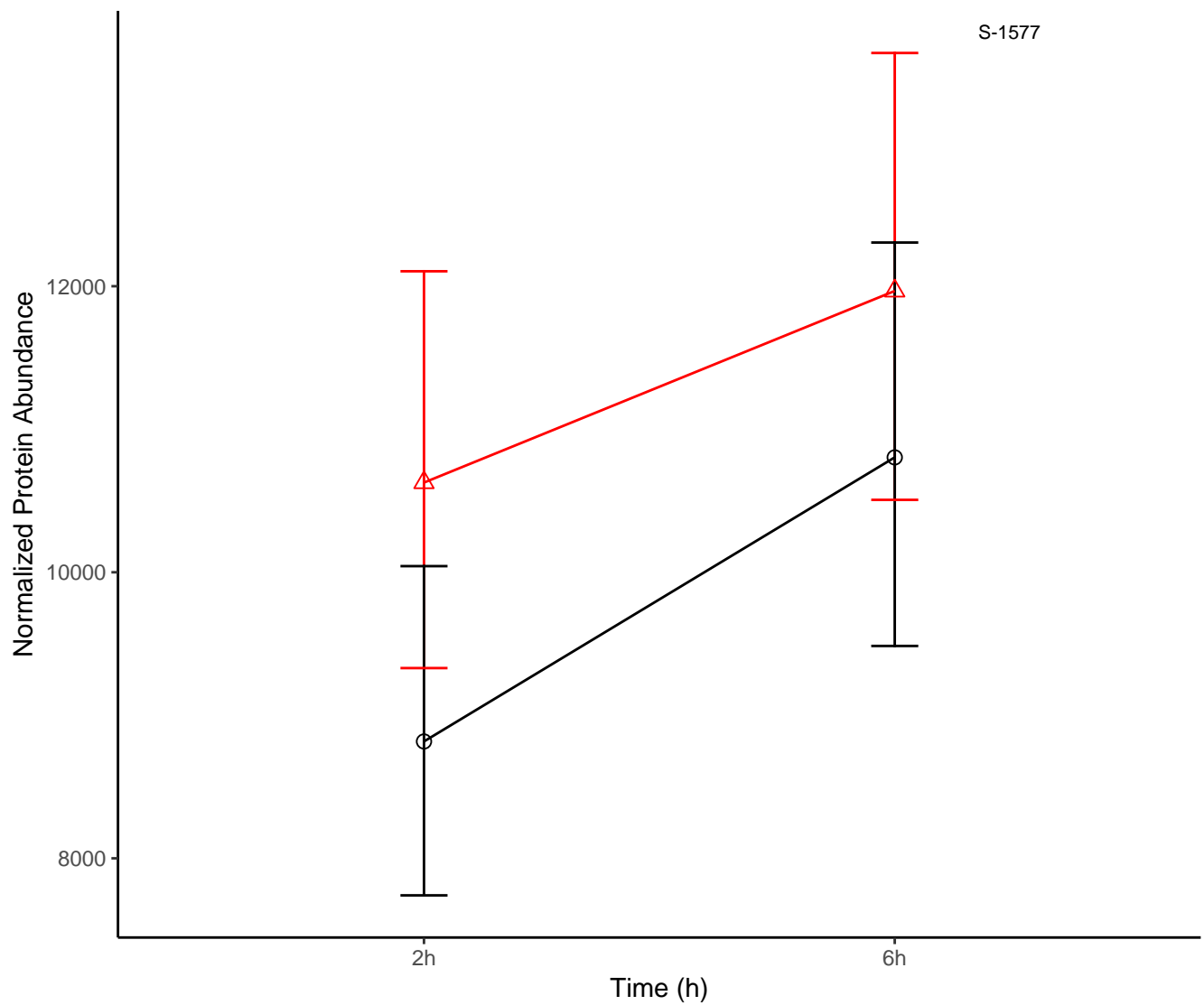
○ TSB-dex

△ TSB



# DEOB\_STAAM

S-1577

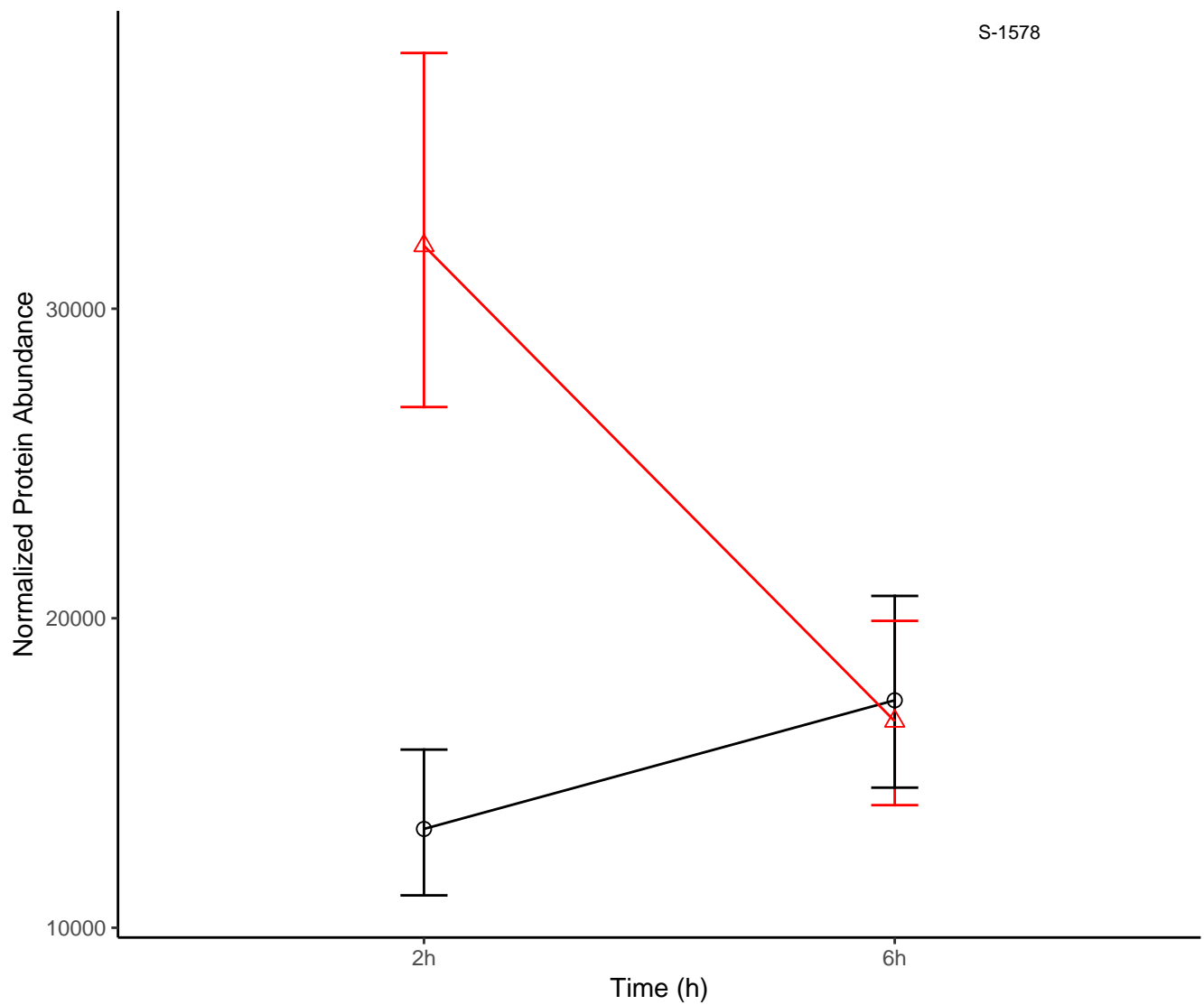


○ TSB-dex

△ TSB

# DEOC1\_STAAM

S-1578

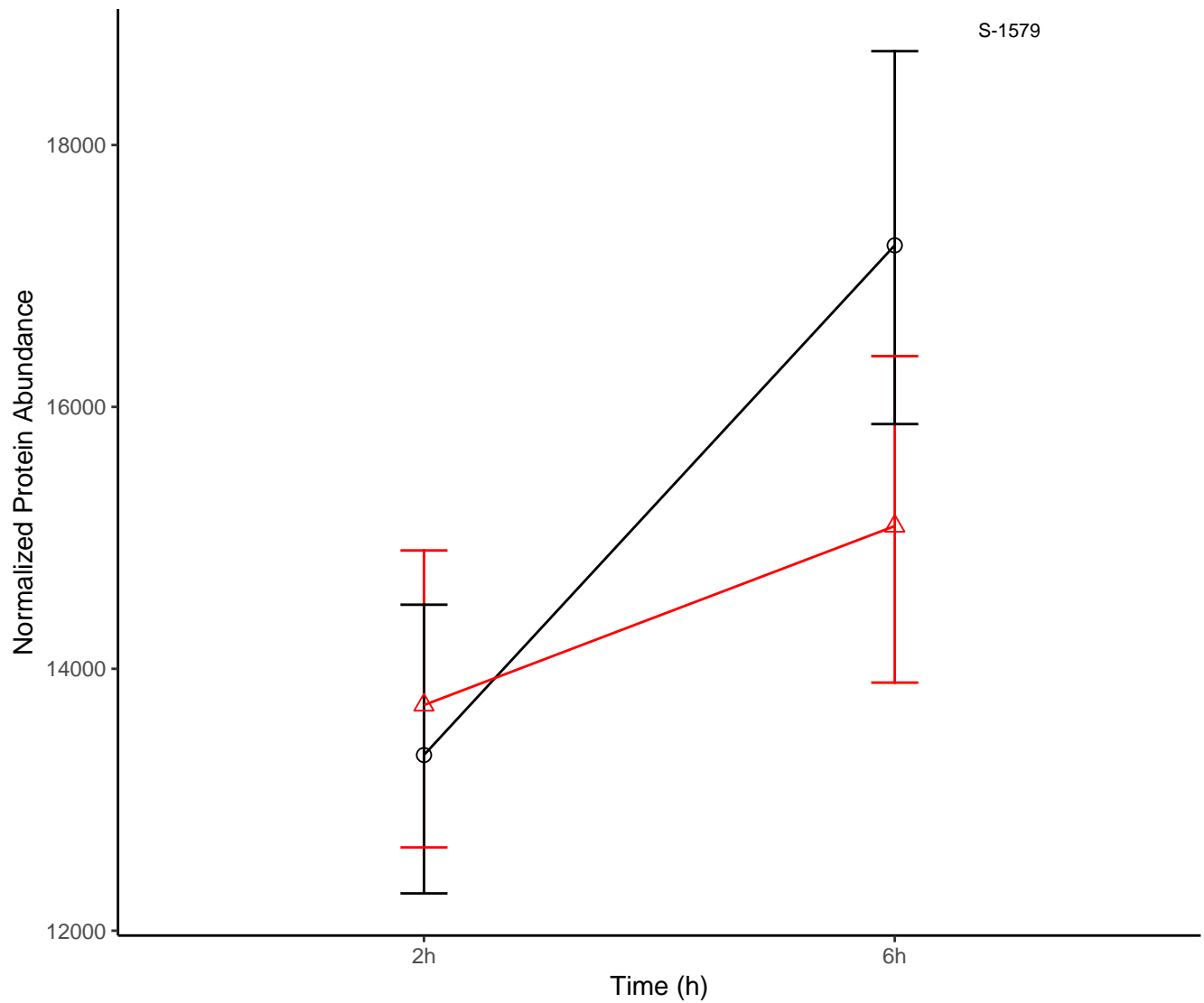


○ TSB-dex

△ TSB

# DEOC2\_STAAM

S-1579

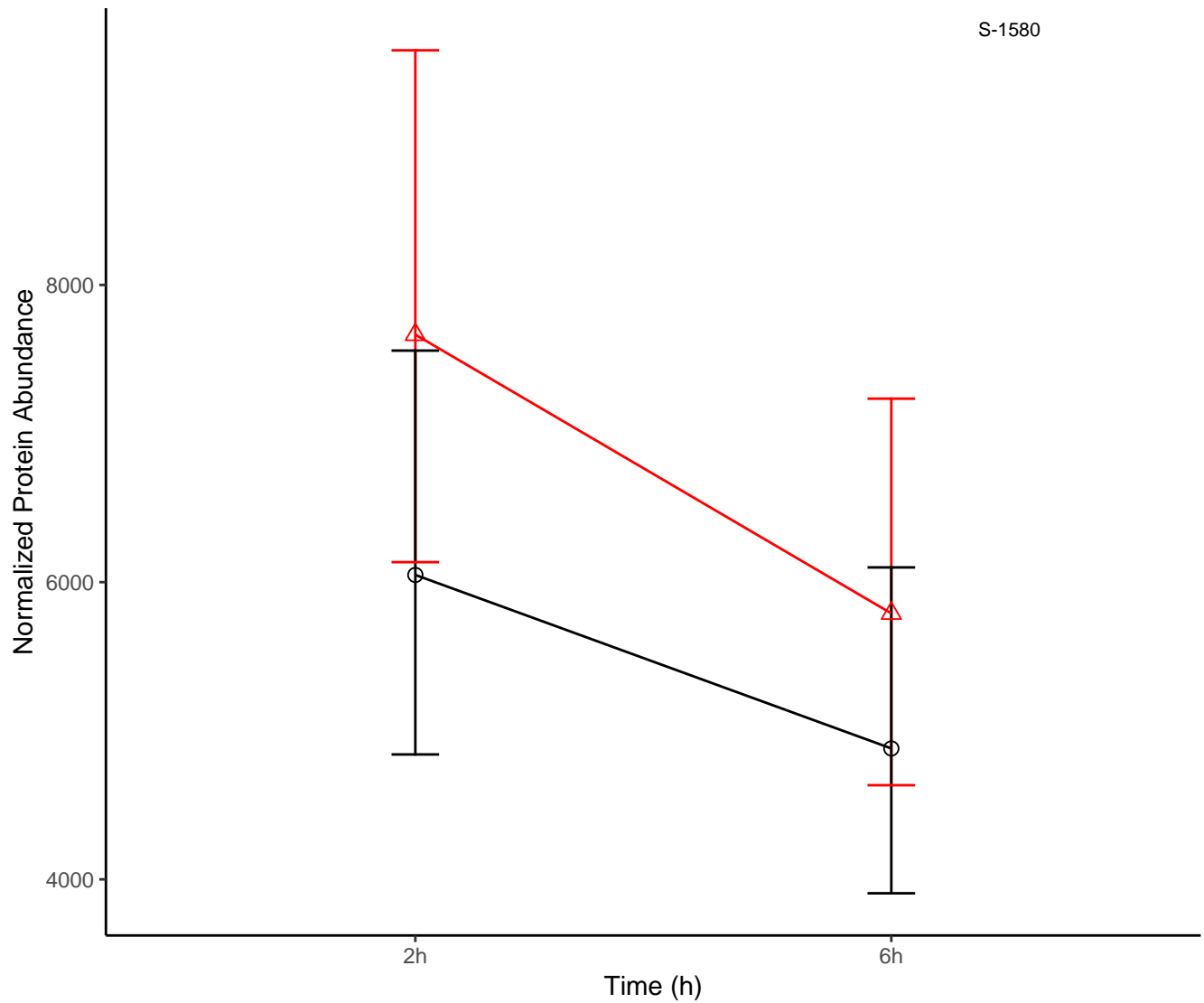


○ TSB-dex

△ TSB

# DER\_STAAM

S-1580

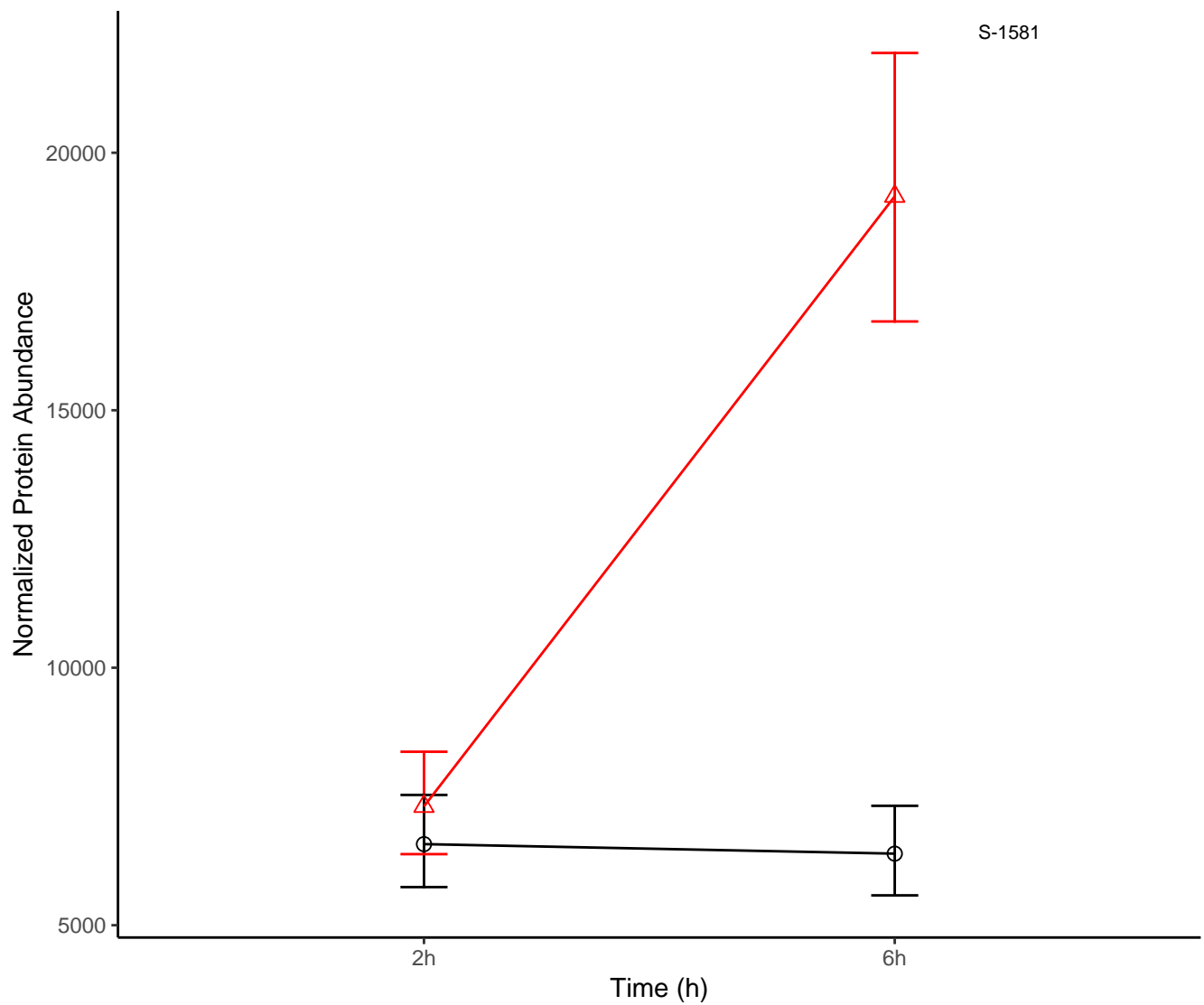


○ TSB-dex

△ TSB

# DHA1\_STAAM

S-1581

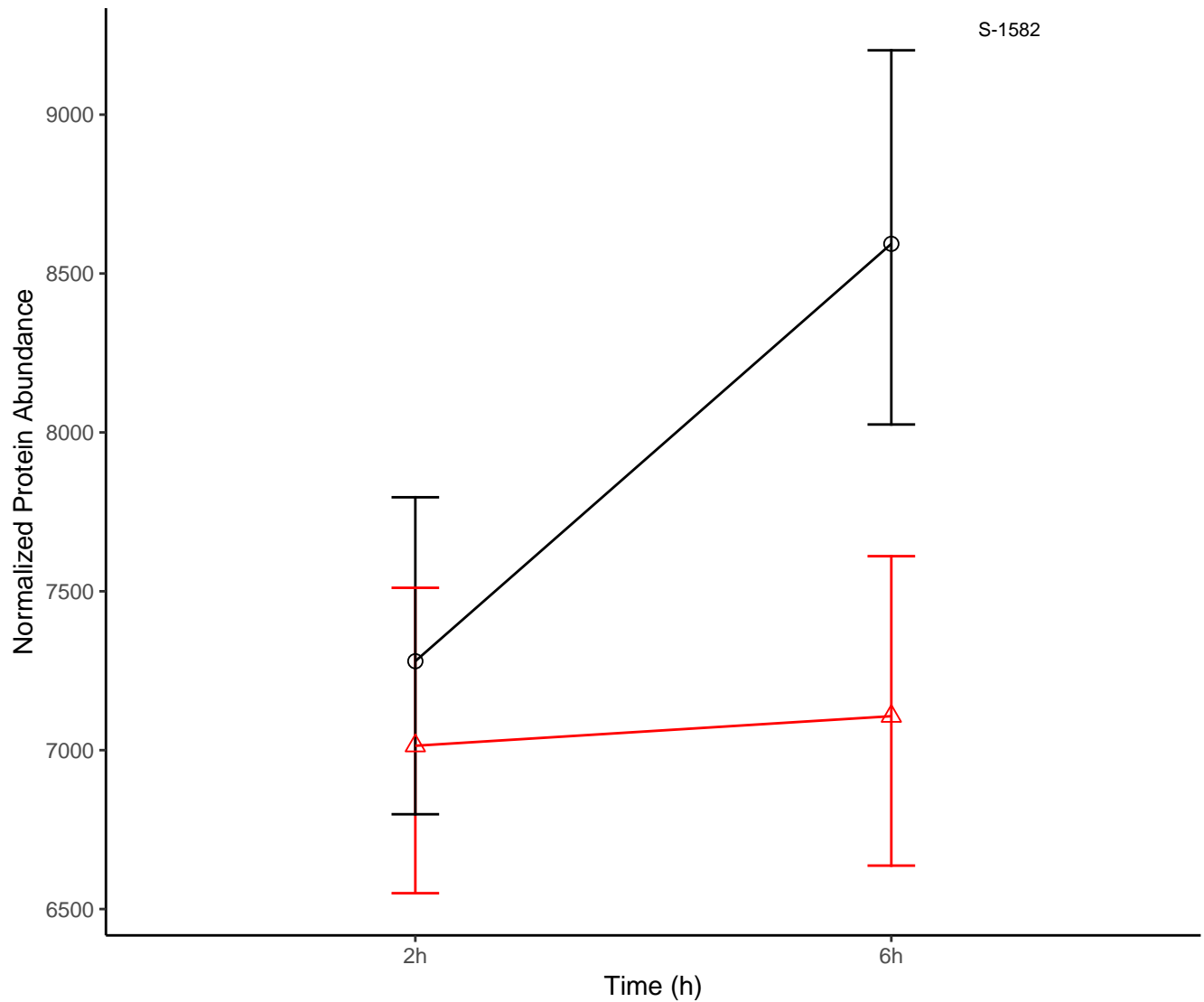


○ TSB-dex

△ TSB

# DHA2\_STAAM

S-1582

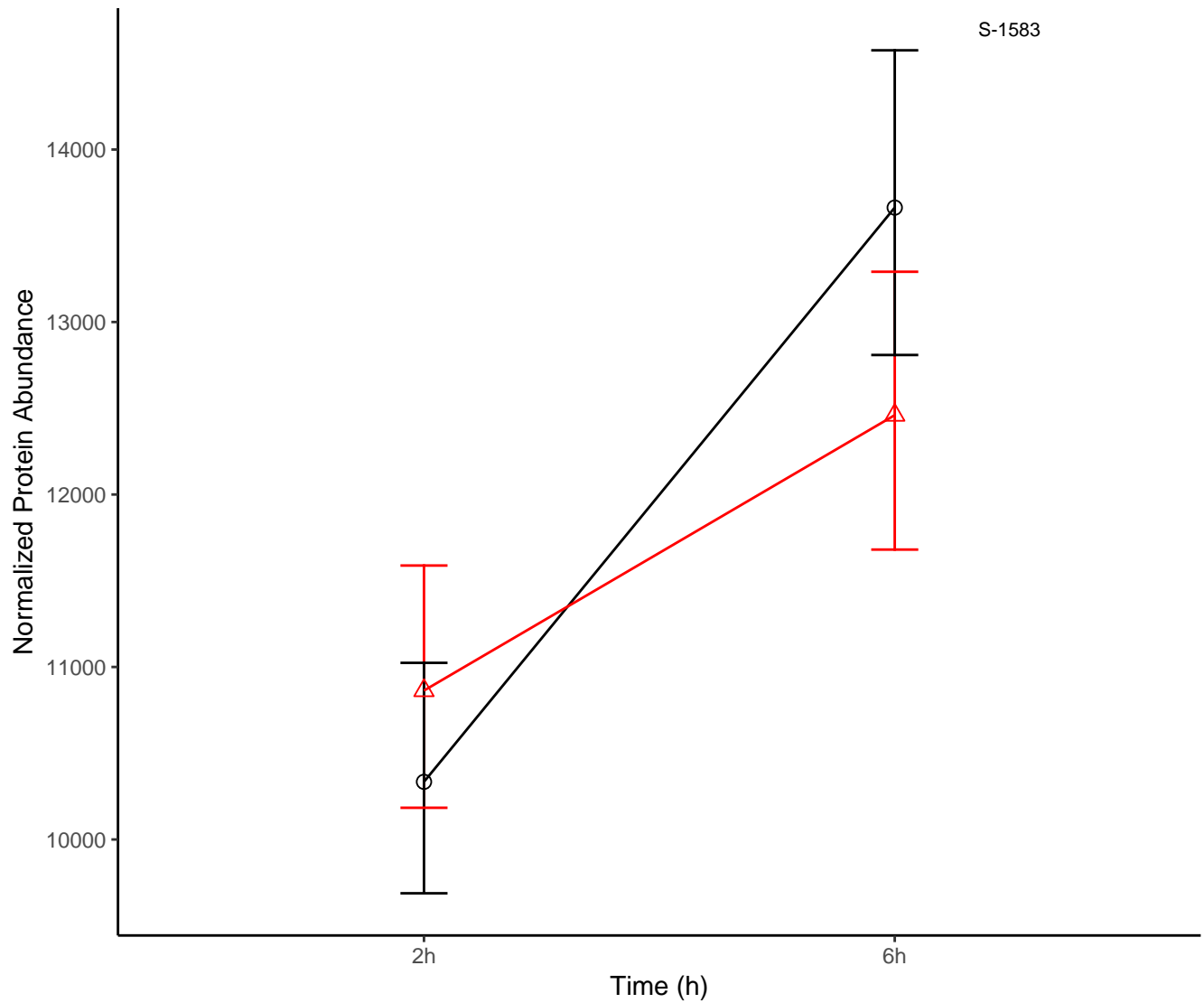


○ TSB-dex

△ TSB

# DHE2\_STAAM

S-1583

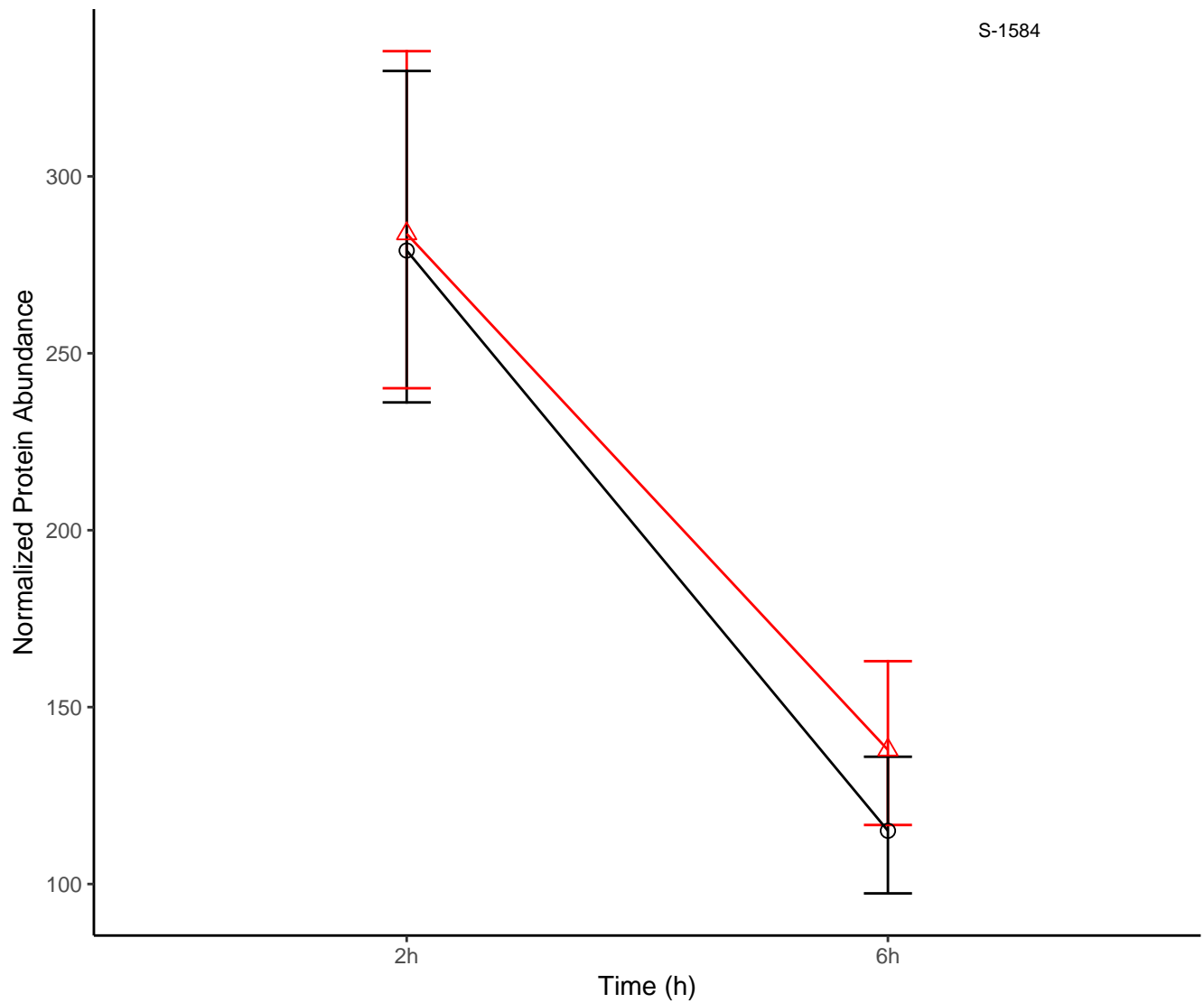


○ TSB-dex

△ TSB

# DHPS\_STAAM

S-1584



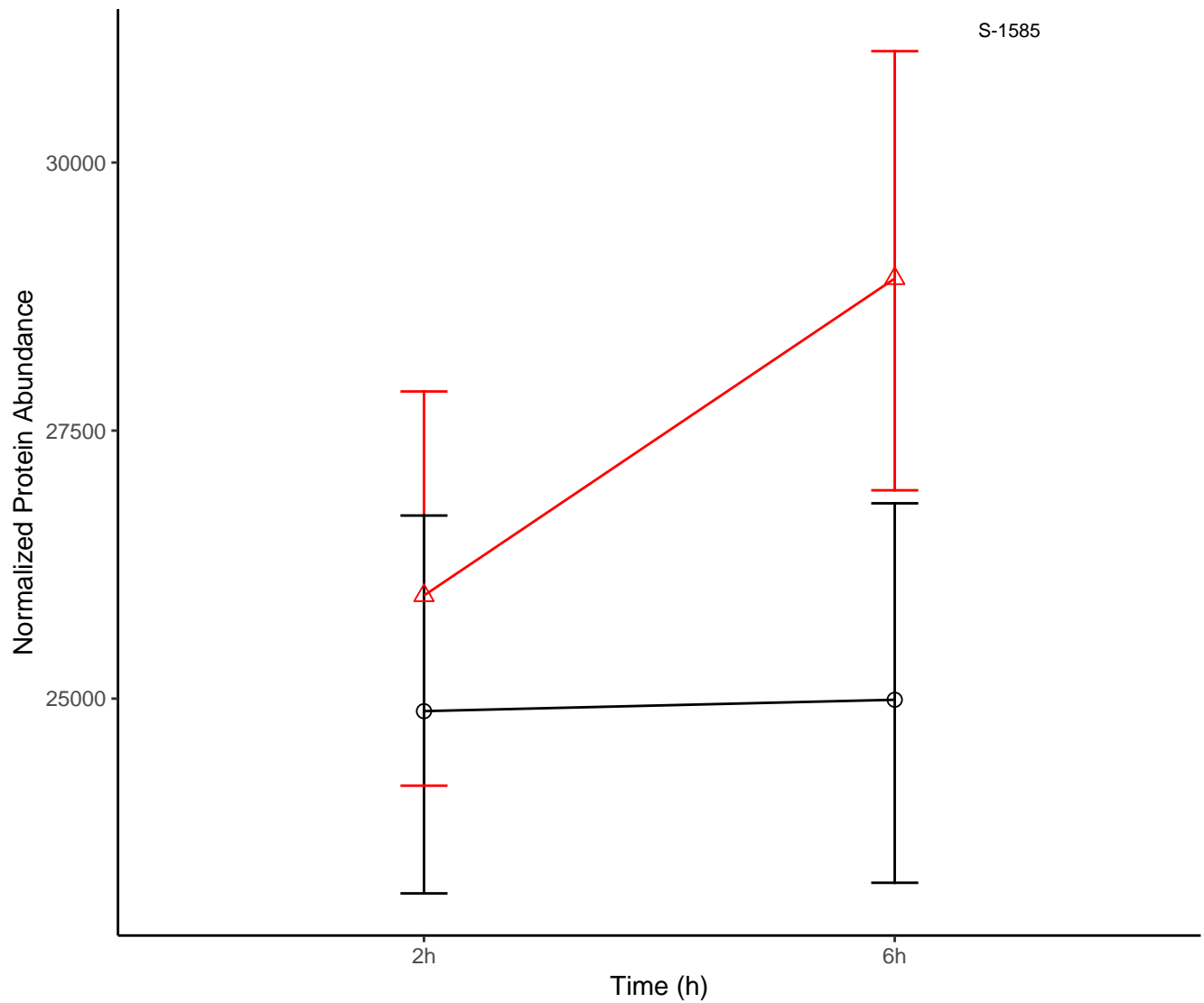
○ TSB-dex

△ TSB



# DLDH\_STAAM

S-1585

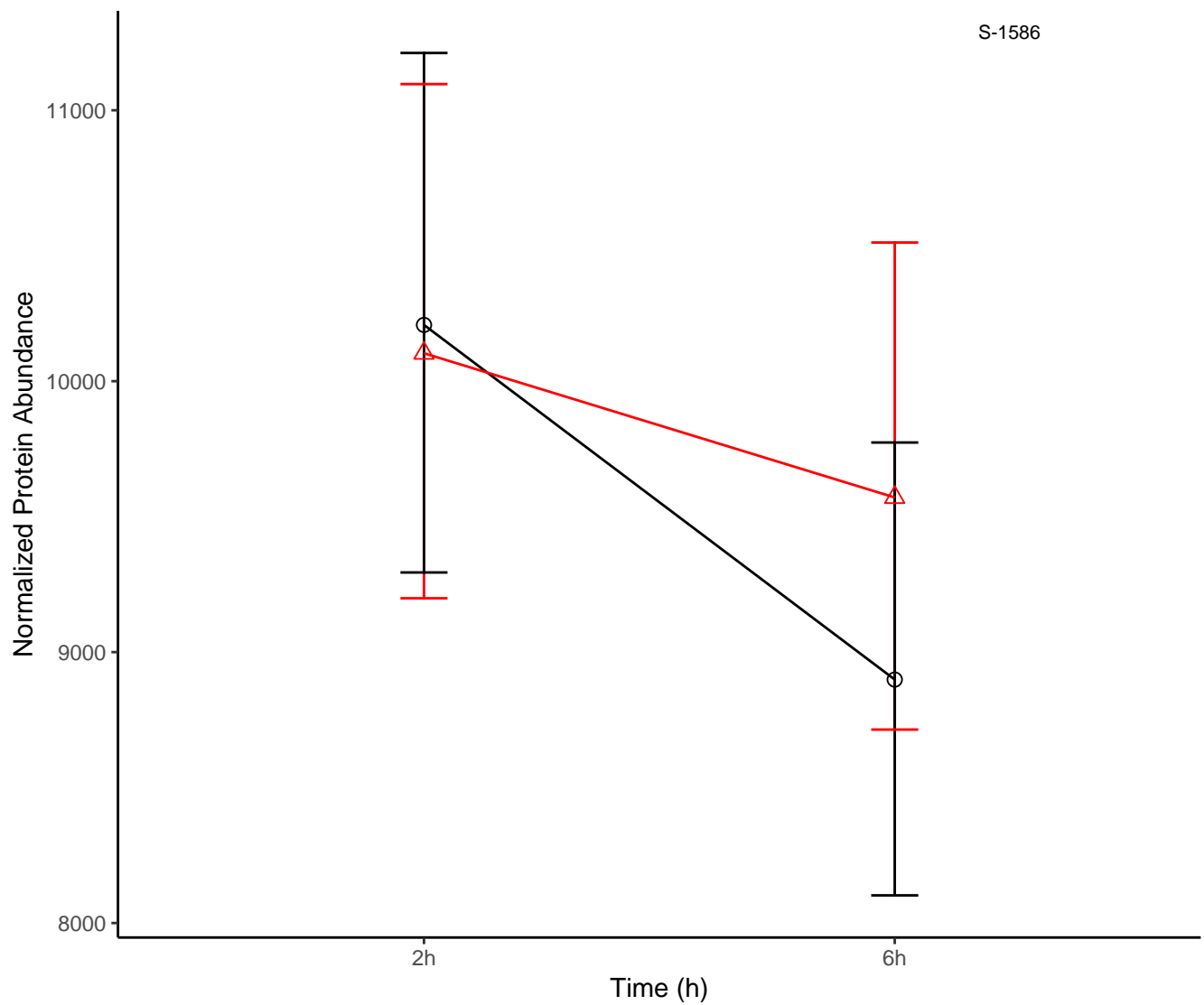


○ TSB-dex

△ TSB

# DLTA\_STAAM

S-1586

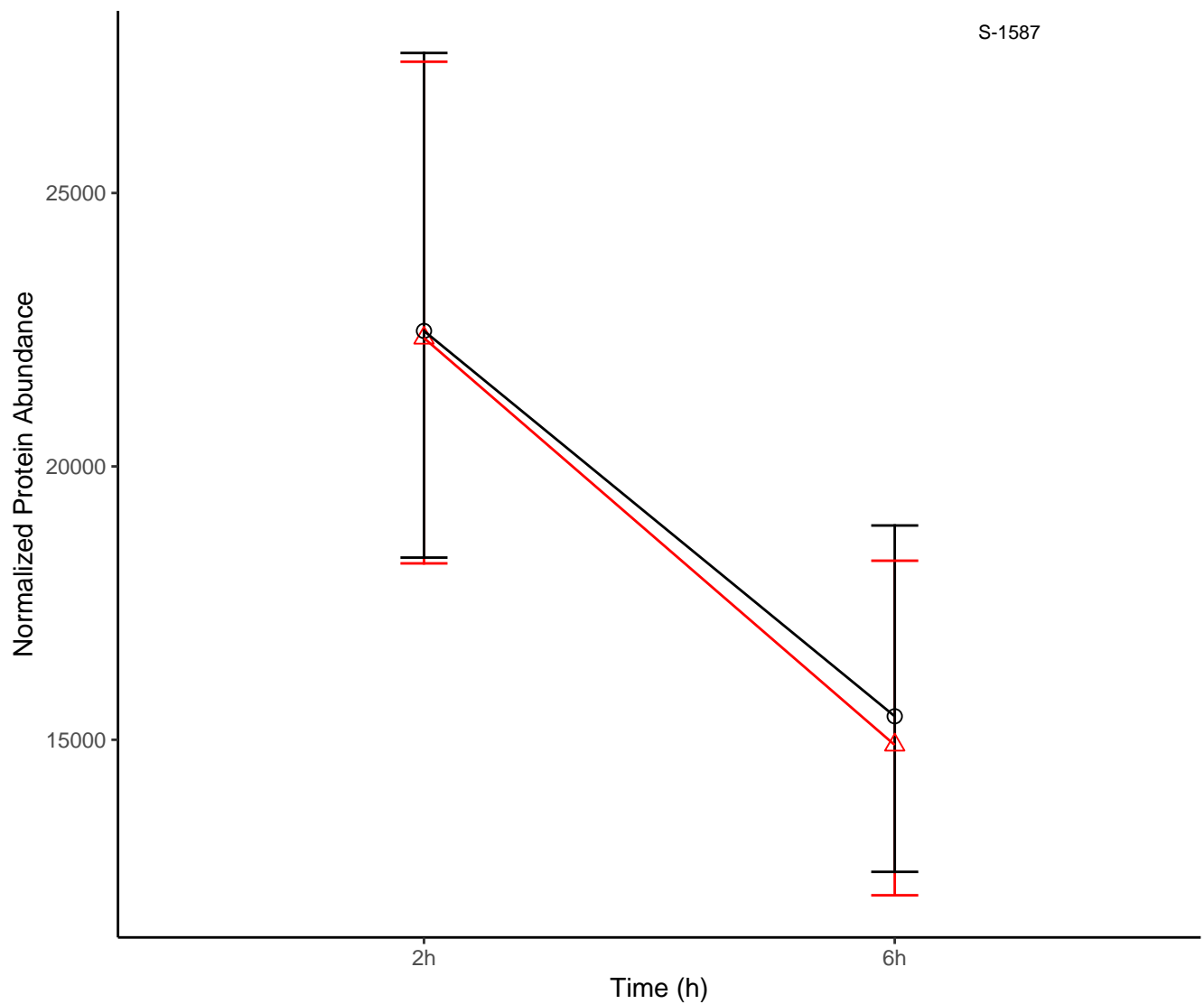


○ TSB-dex

△ TSB

# DLTC\_STAAM

S-1587

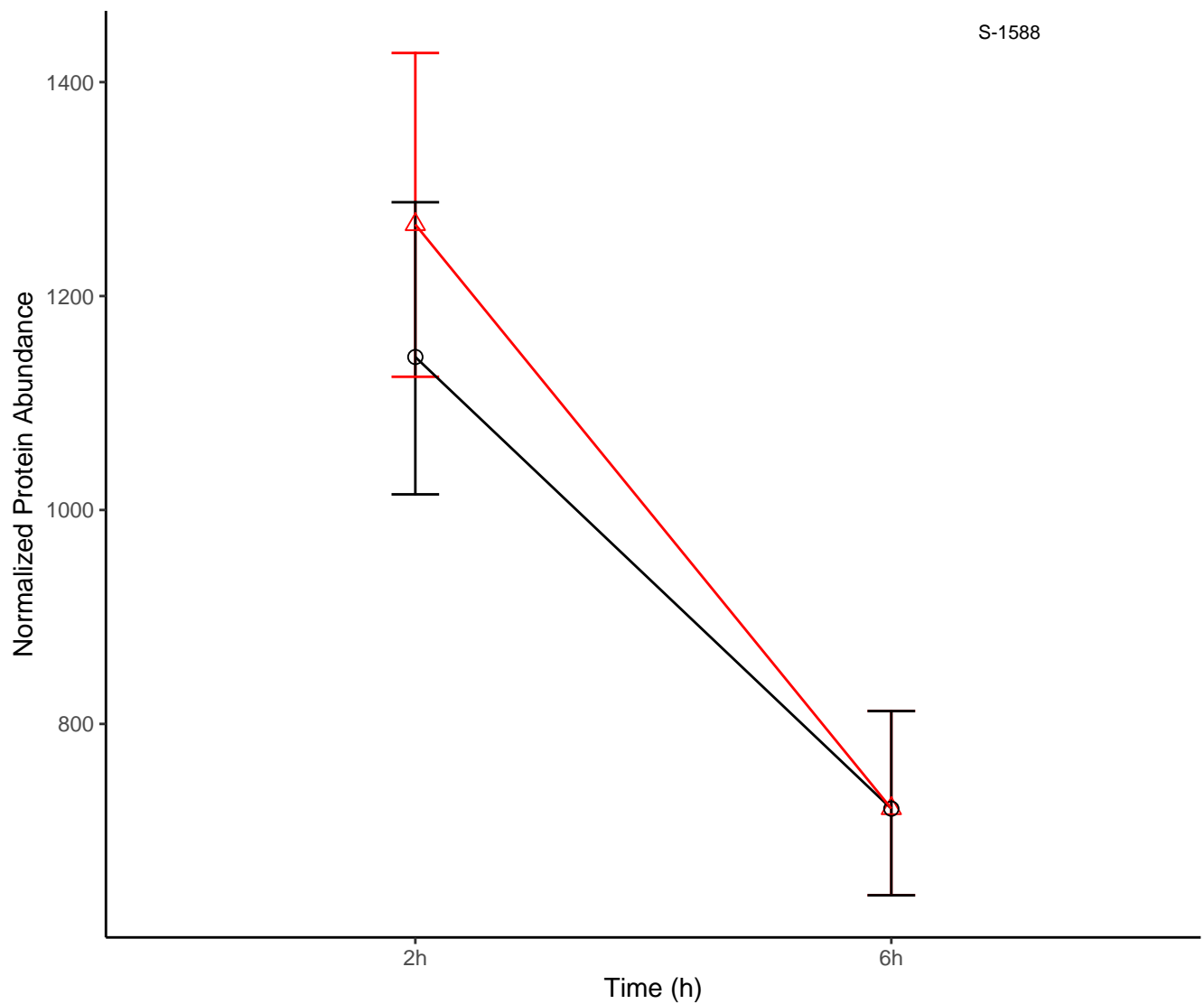


○ TSB-dex

△ TSB

# DNAA\_STAAM

S-1588

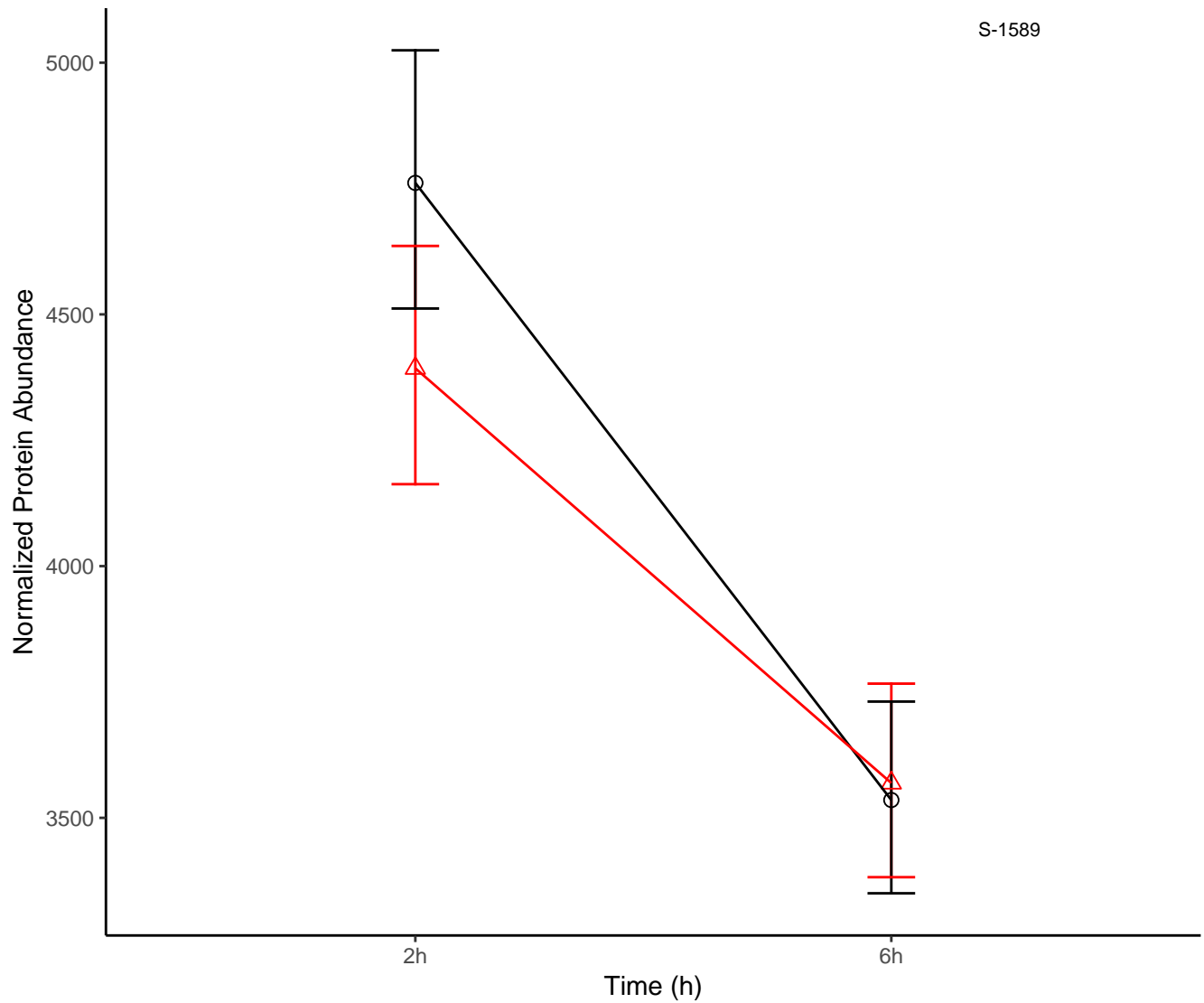


○ TSB-dex

△ TSB

# DNAG\_STAAM

S-1589

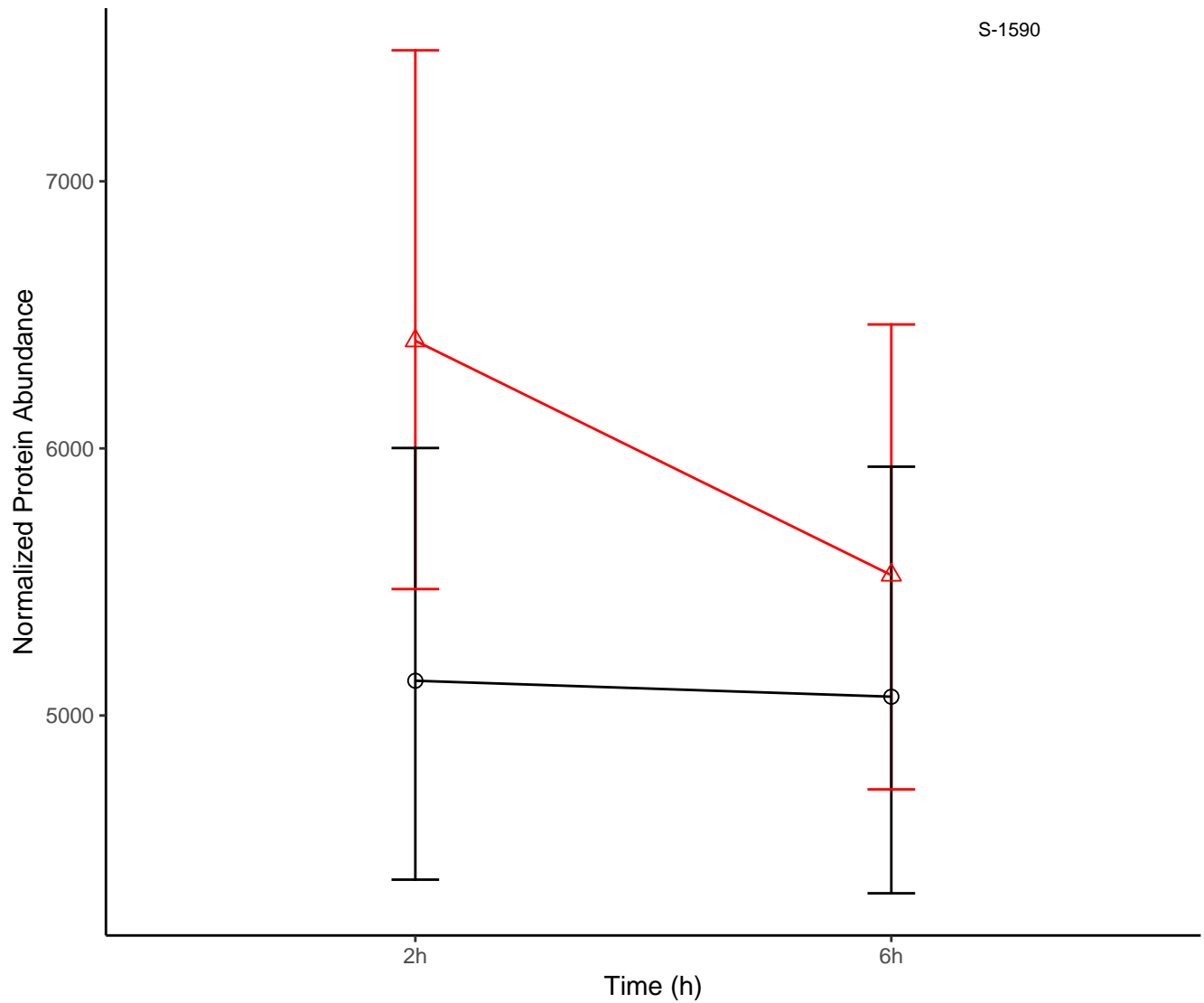


○ TSB-dex

△ TSB

# DNAJ\_STAAM

S-1590

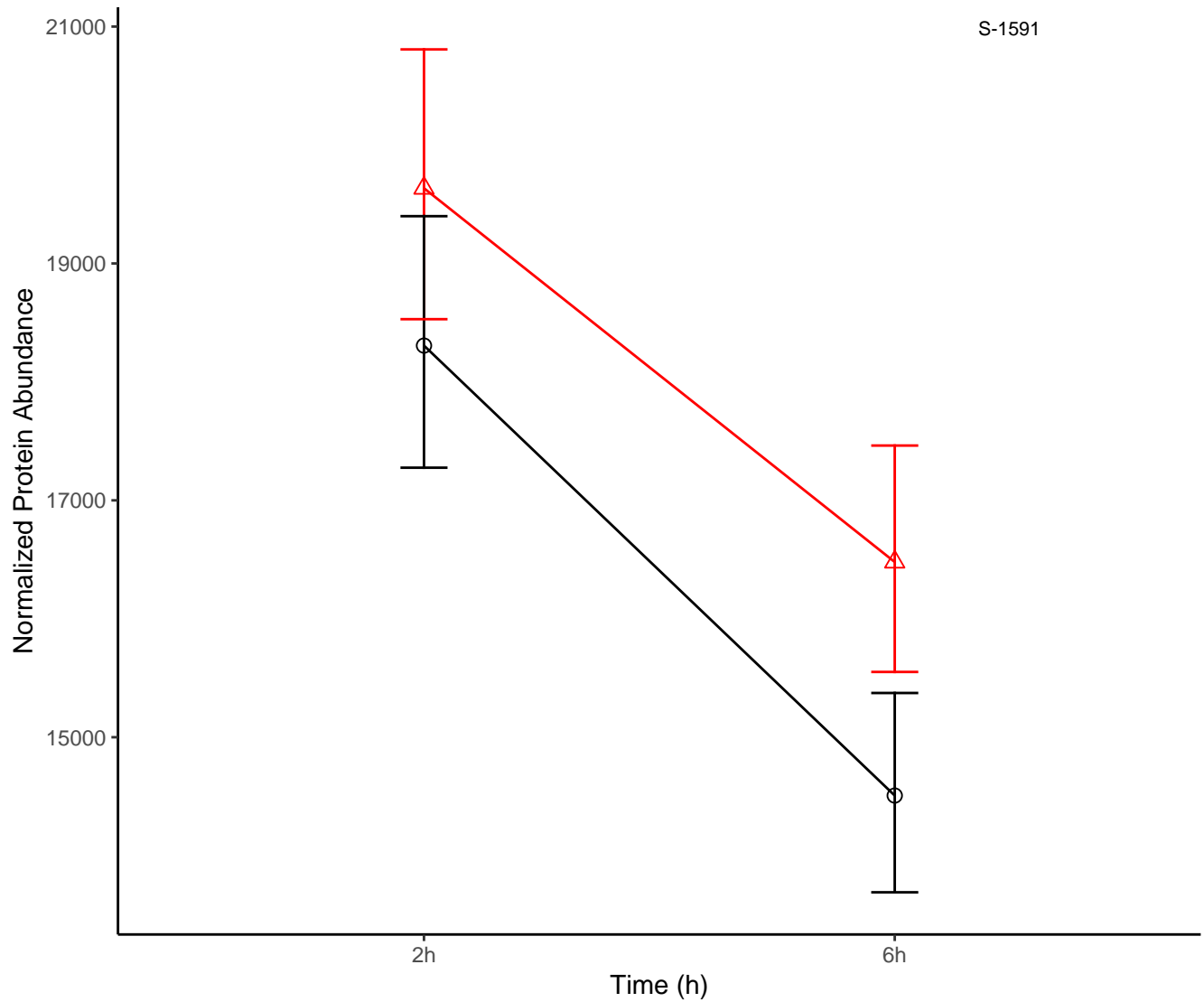


○ TSB-dex

△ TSB

# DNAK\_STAAM

S-1591

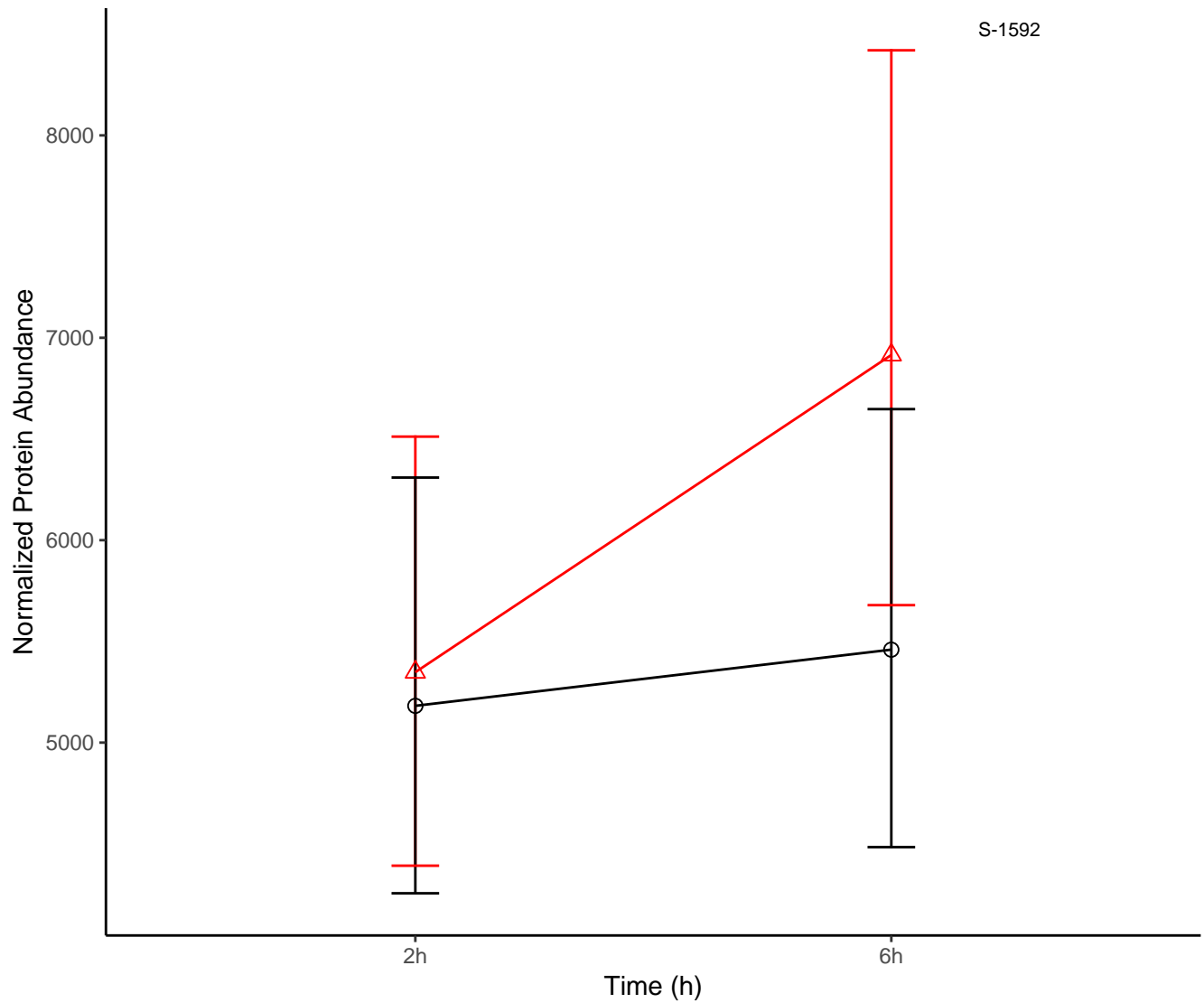


○ TSB-dex

△ TSB

# DNLJ\_STAAM

S-1592



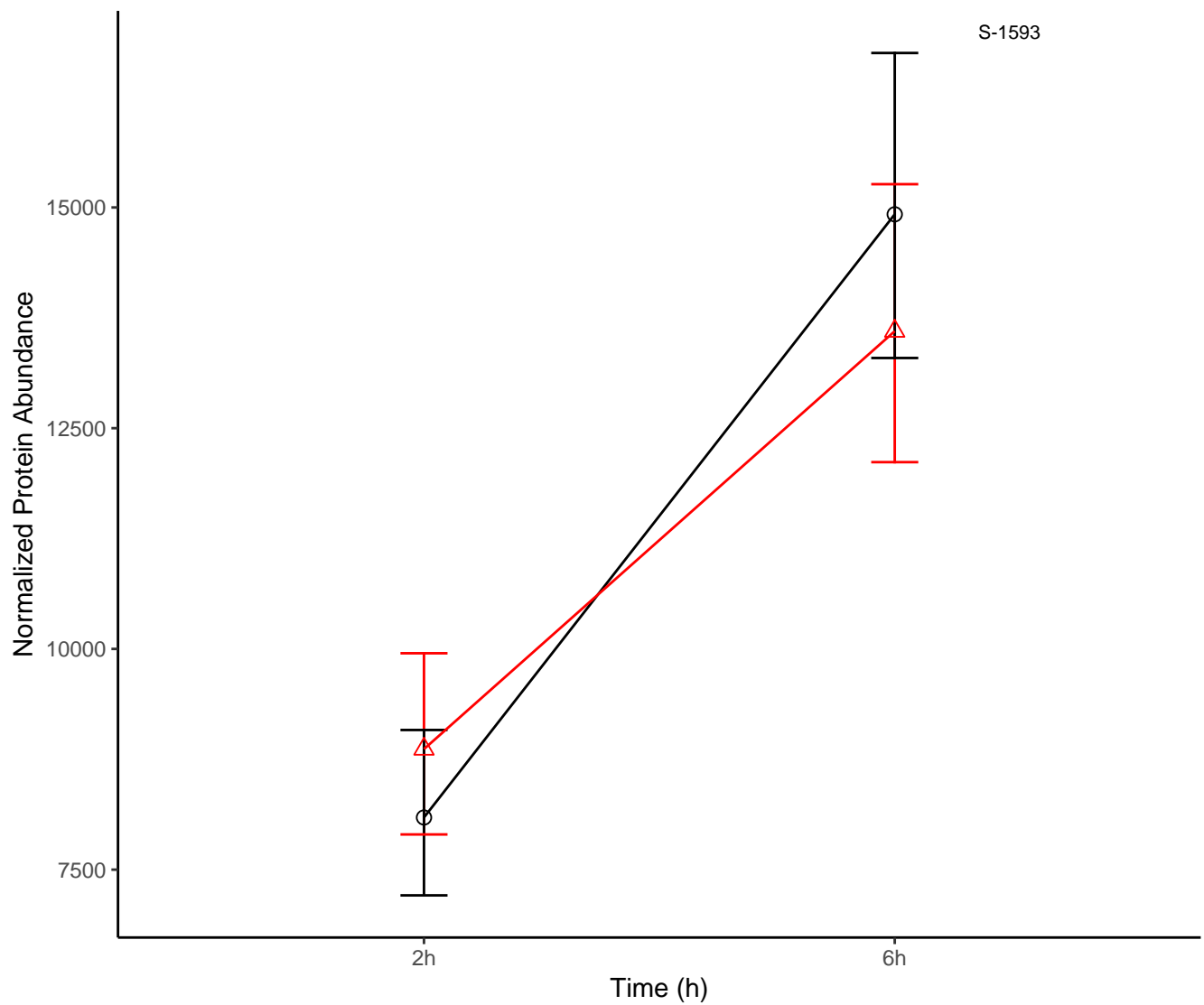
○ TSB-dex

△ TSB



# DPO3B\_STAAM

S-1593

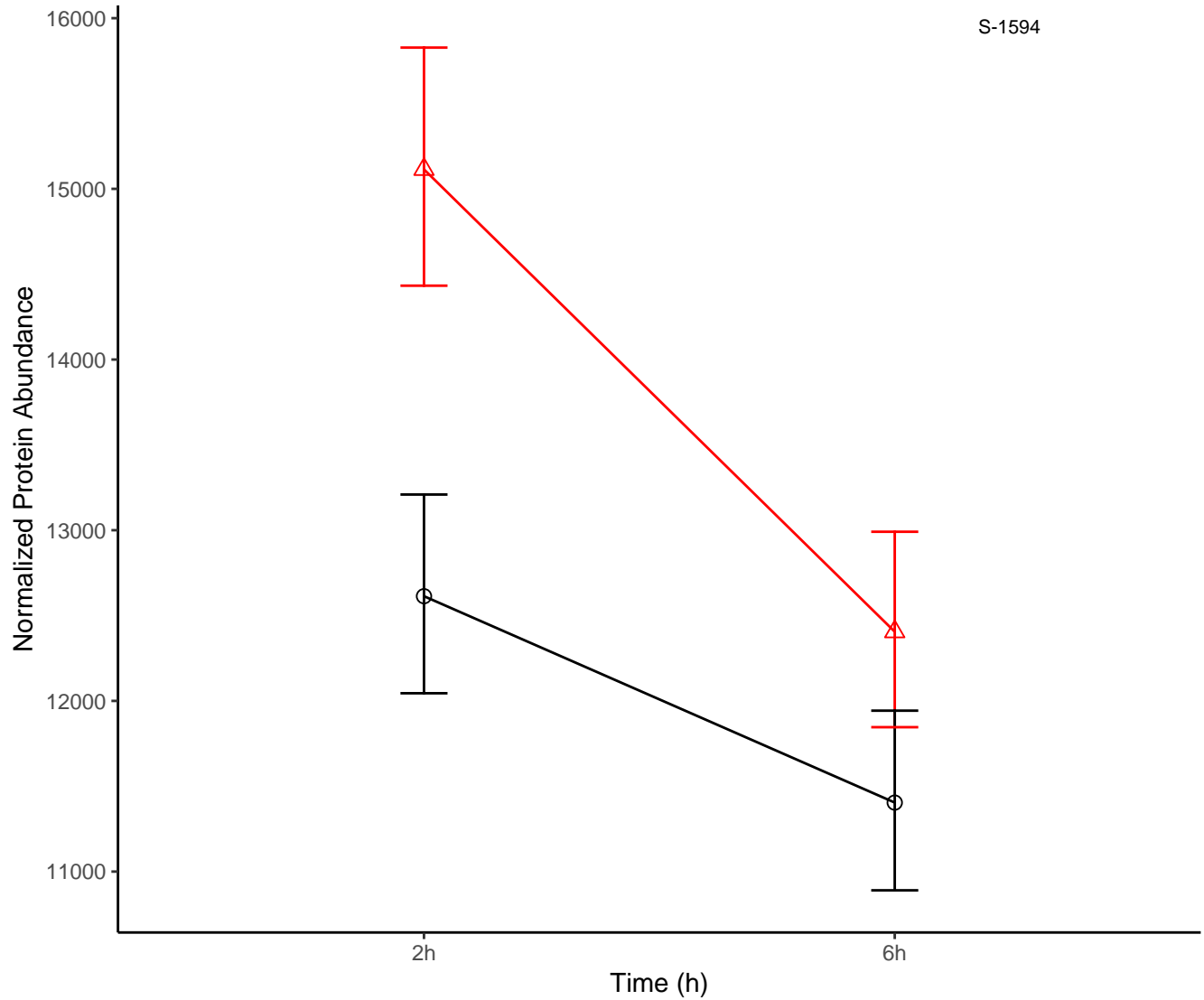


○ TSB-dex

△ TSB

# DPO4\_STAAM

S-1594

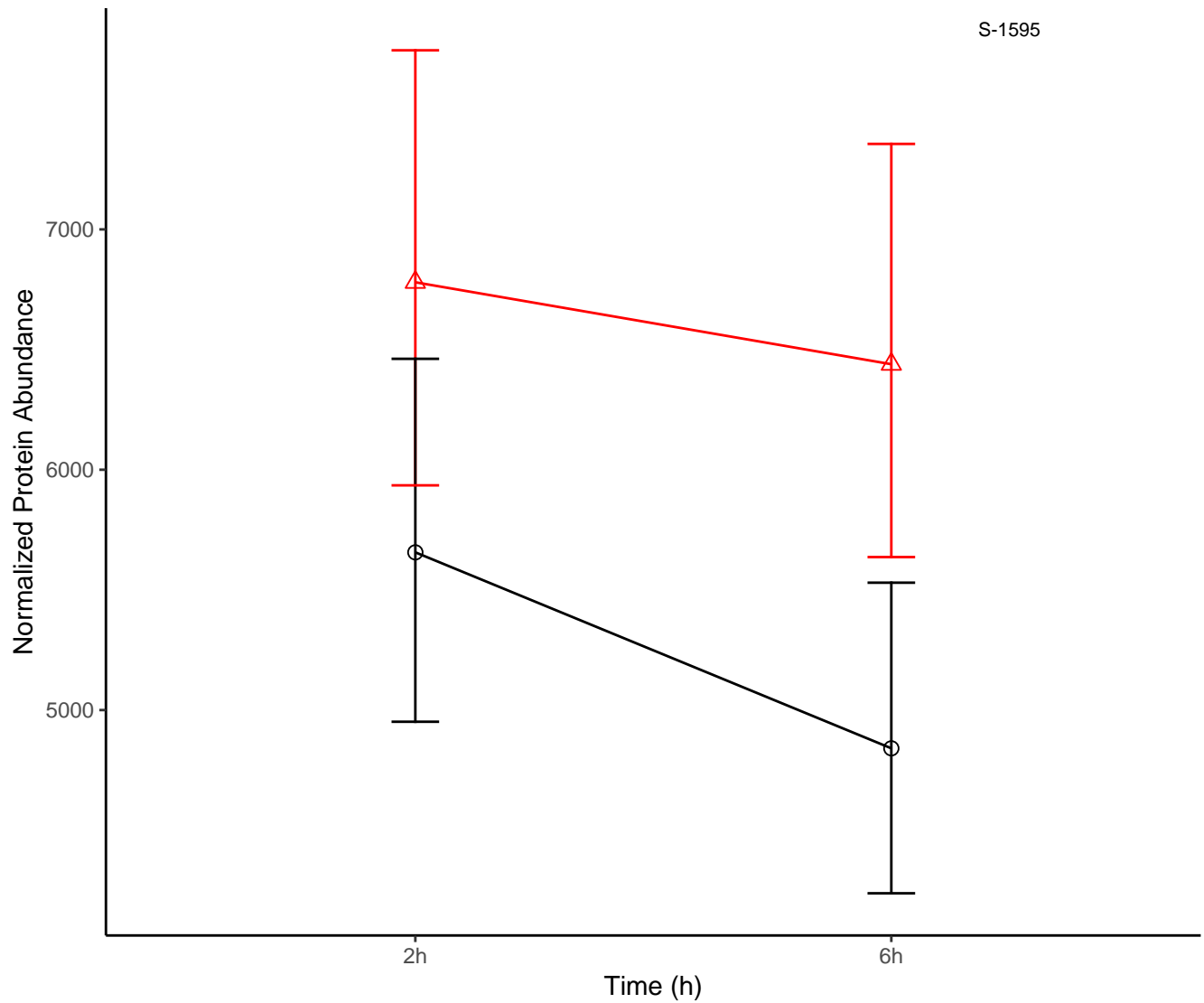


○ TSB-dex

△ TSB

# DTD\_STAAM

S-1595

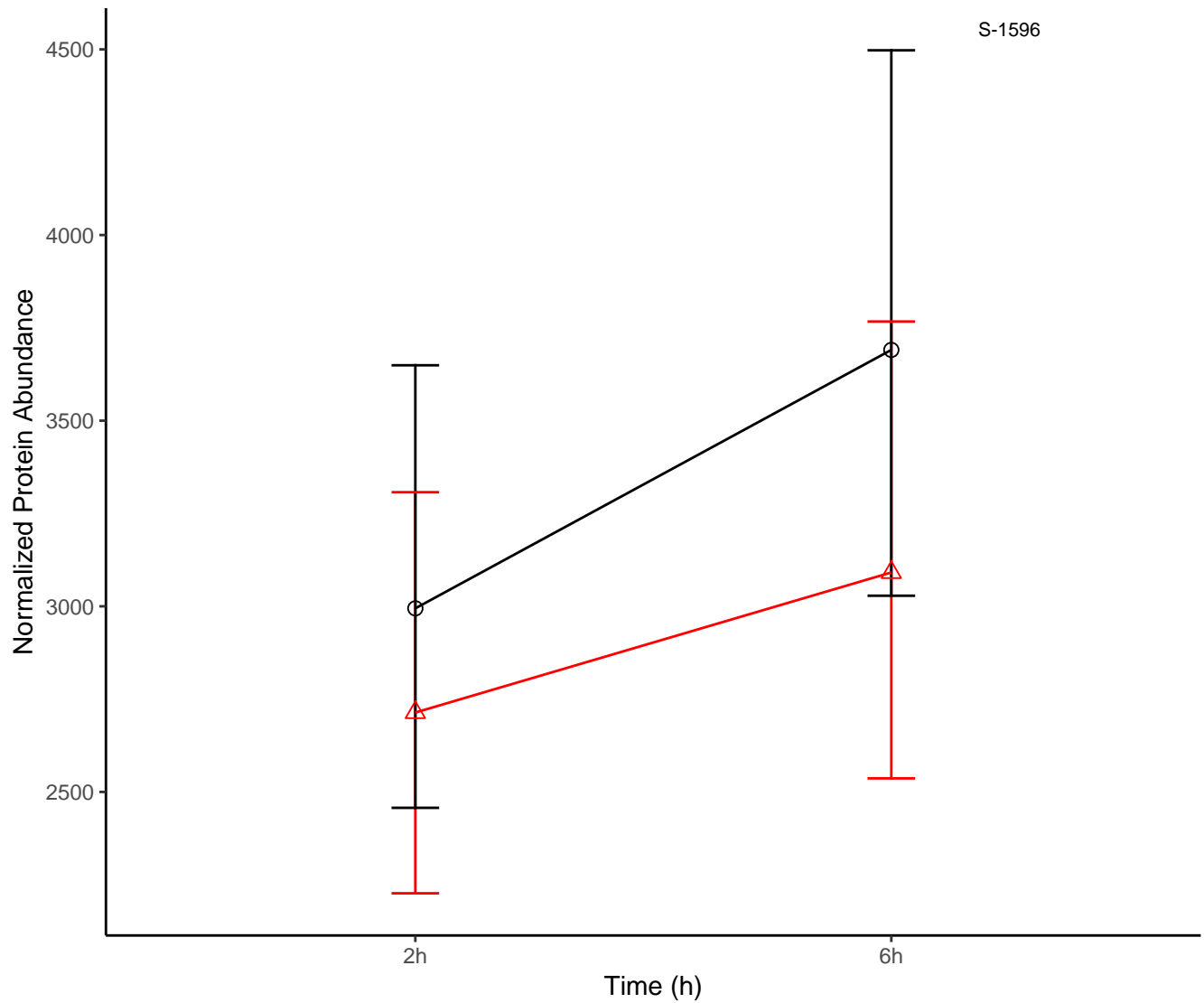


○ TSB-dex

△ TSB

# DYR\_STAAM

S-1596

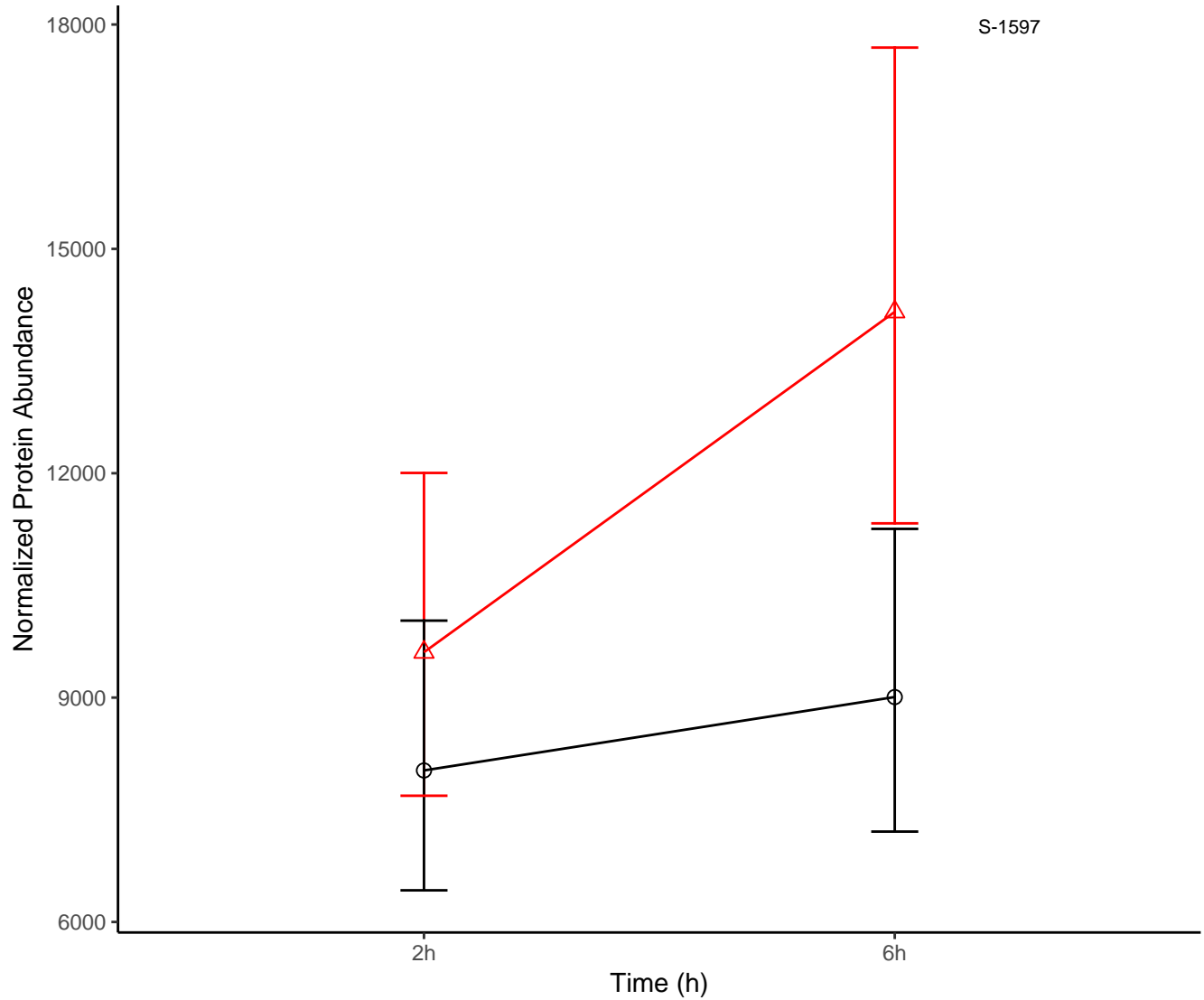


○ TSB-dex

△ TSB

# EBPS\_STAAM

S-1597

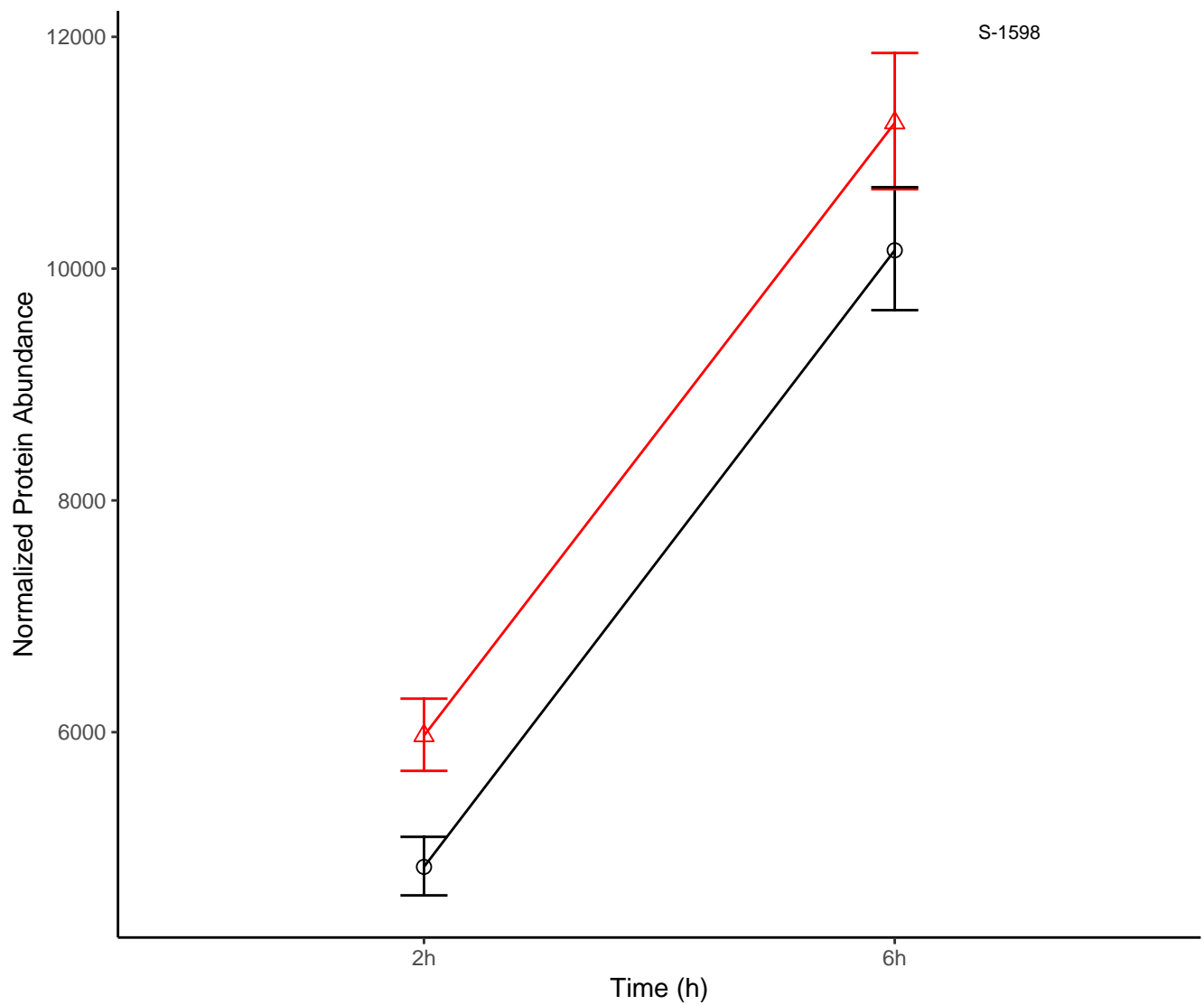


○ TSB-dex

△ TSB

# ECFA1\_STAAM

S-1598

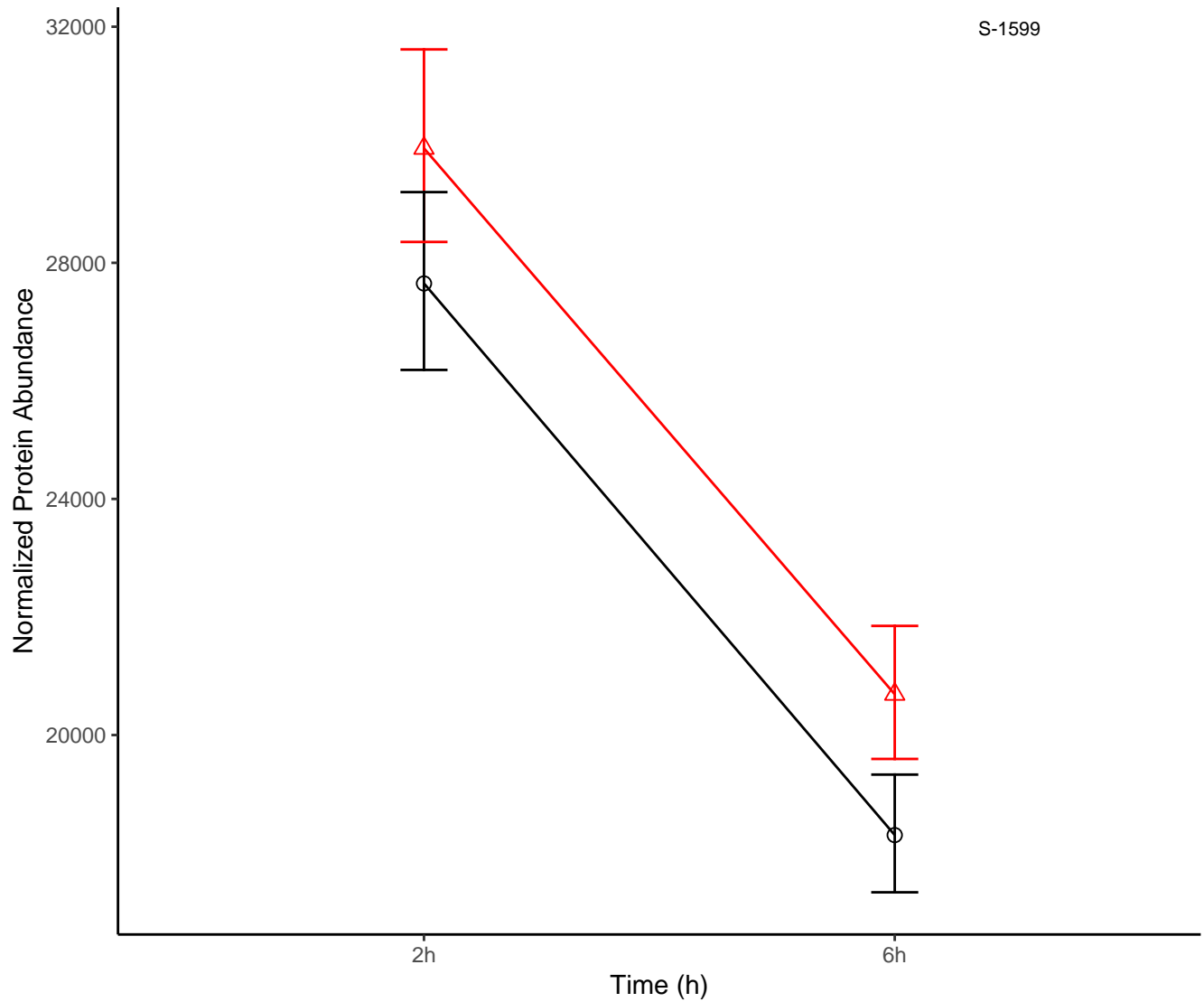


○ TSB-dex

△ TSB

# EFG\_STAAM

S-1599

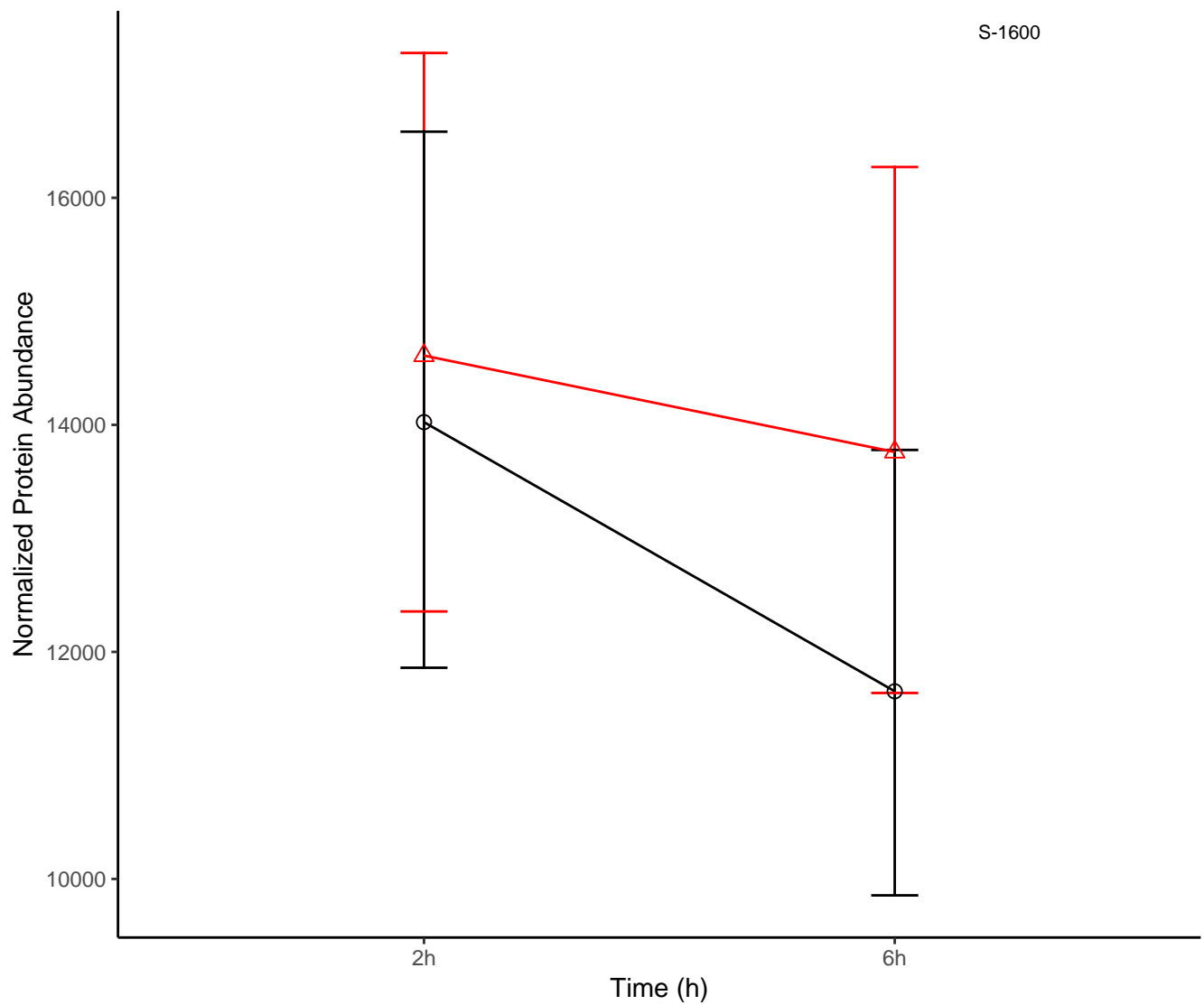


○ TSB-dex

△ TSB

# EFP\_STAAM

S-1600



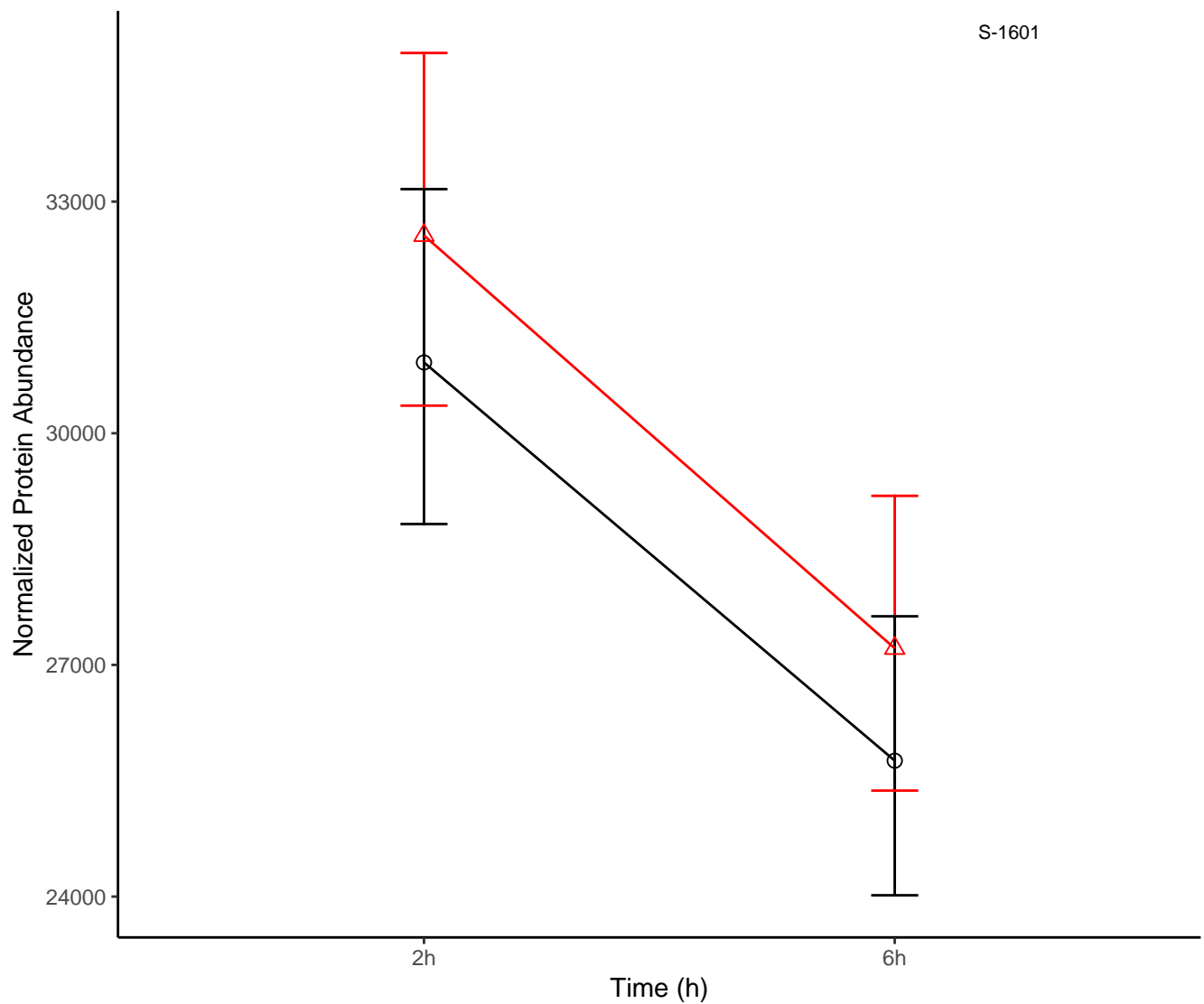
○ TSB-dex

△ TSB



# EFTS\_STAAM

S-1601

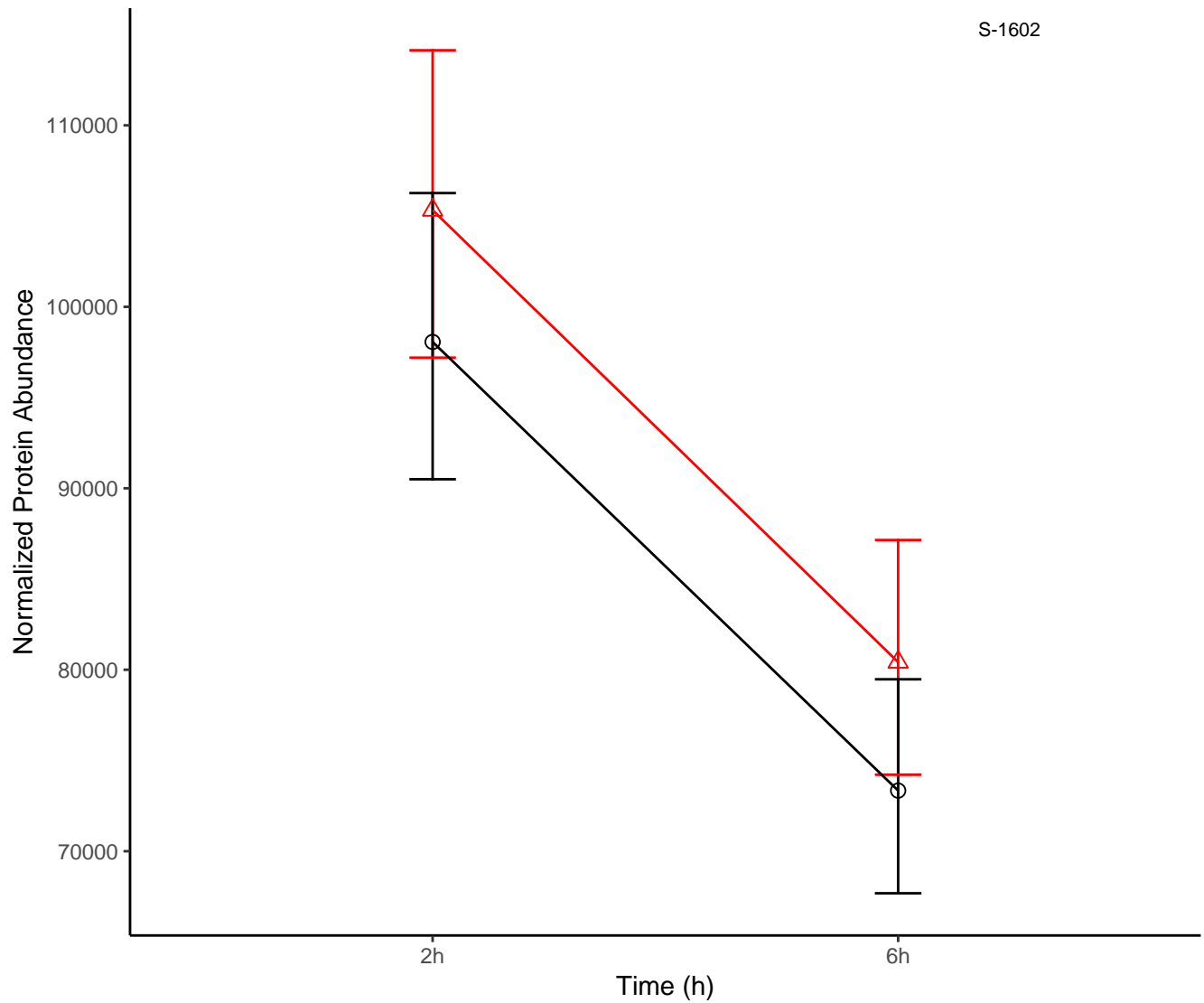


○ TSB-dex

△ TSB

# EFTU\_STAAM

S-1602

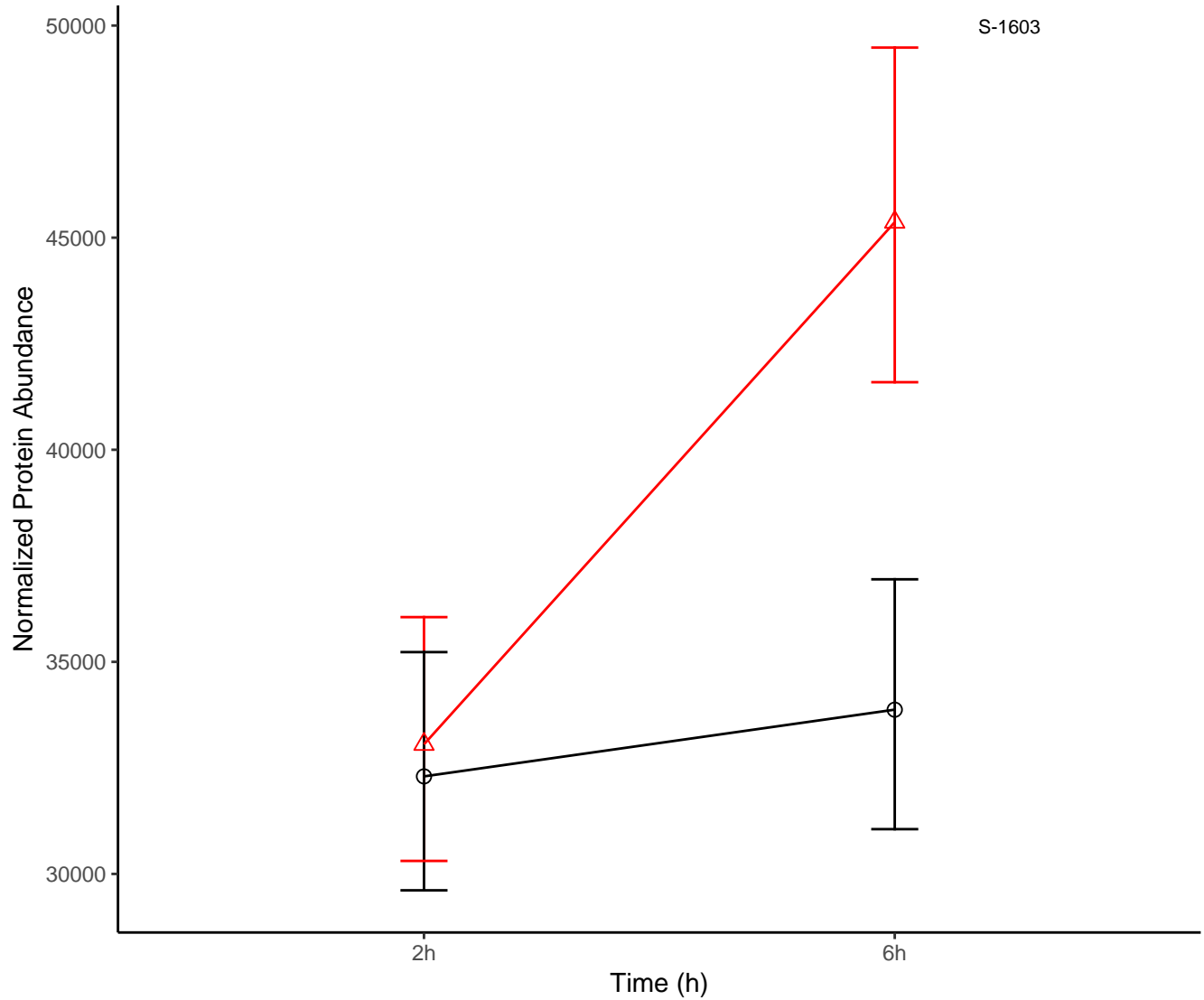


○ TSB-dex

△ TSB

# ENO\_STAAM

S-1603

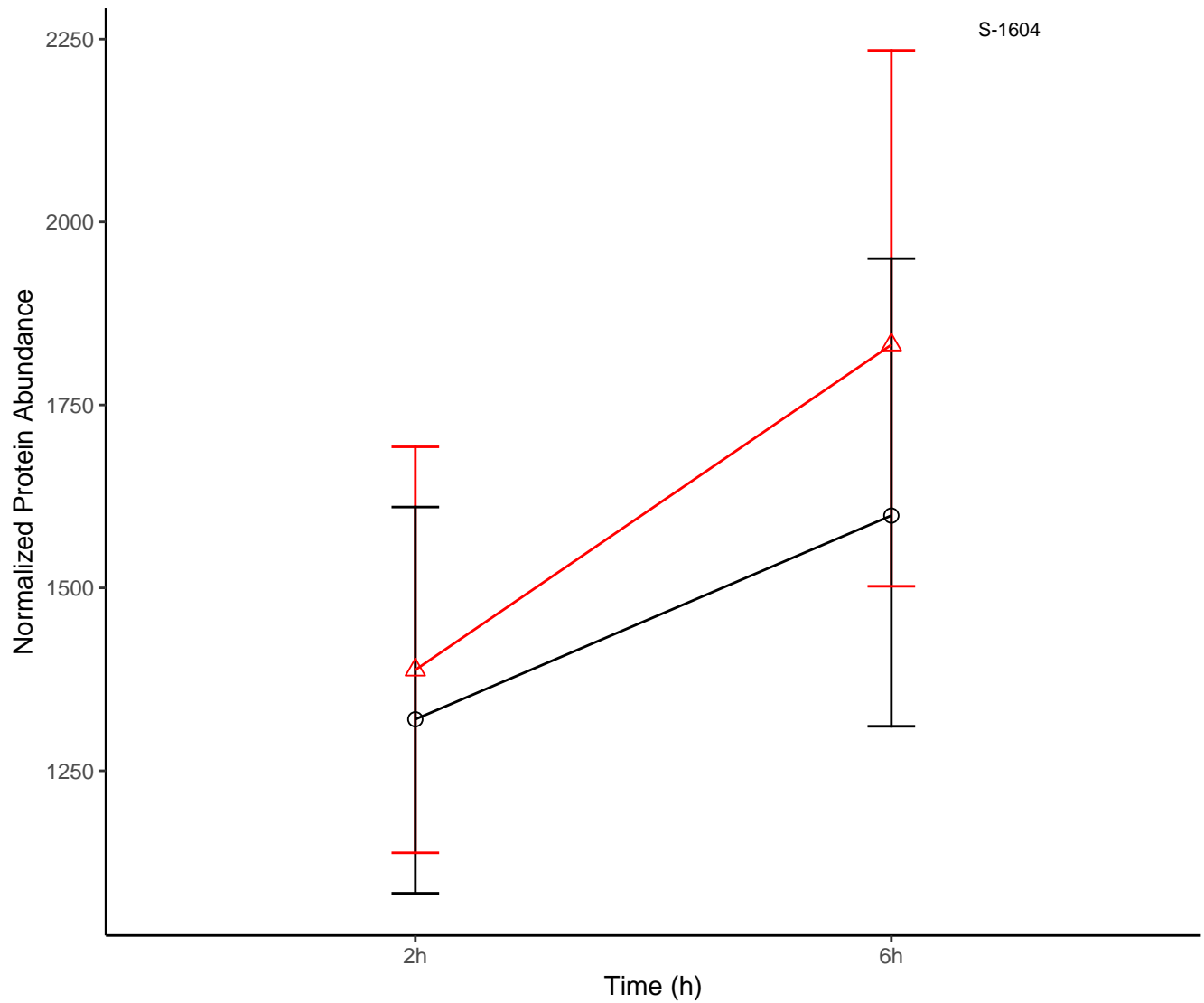


○ TSB-dex

△ TSB

# ERA\_STAAM

S-1604

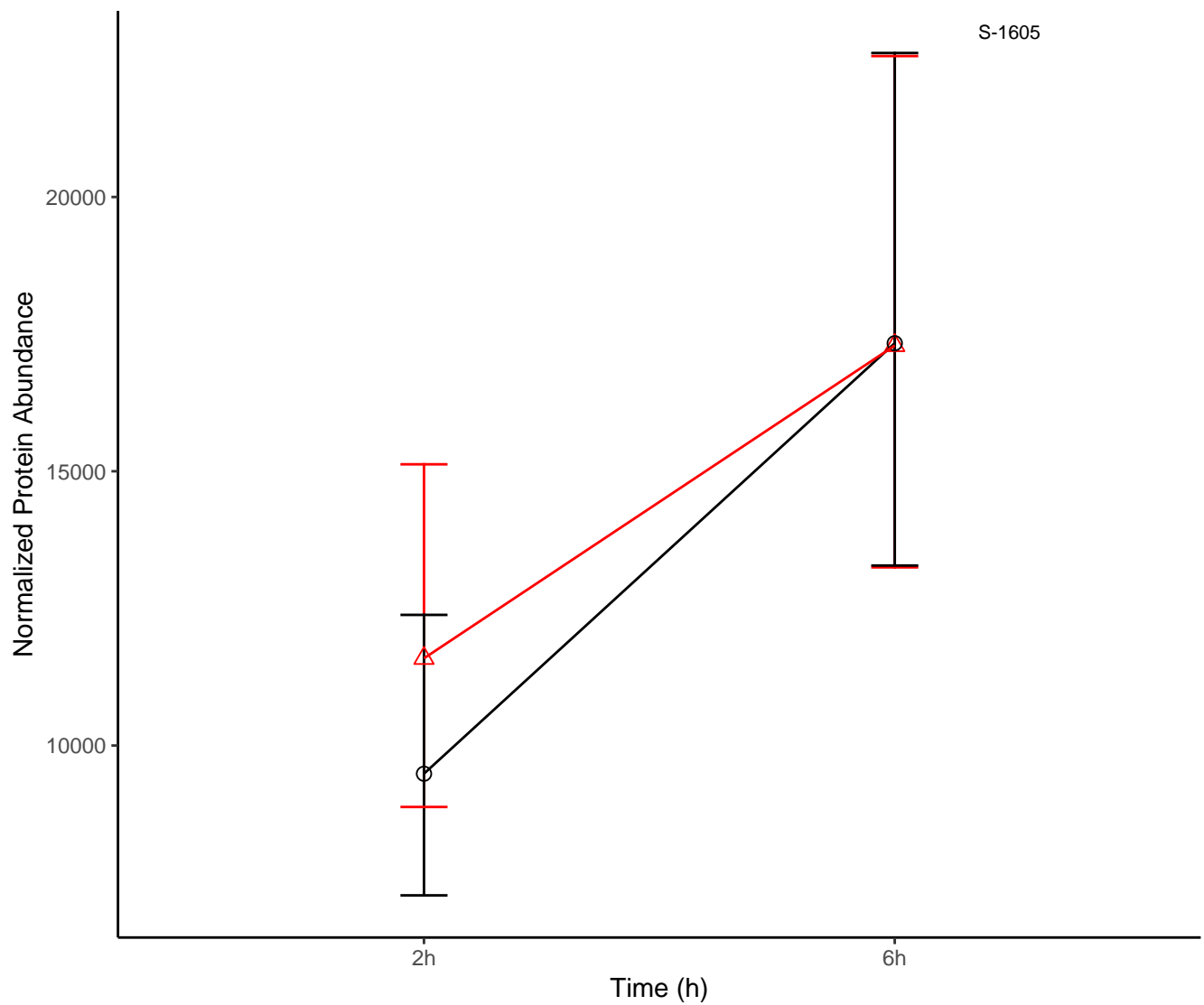


○ TSB-dex

△ TSB

# ERMA\_STAAM

S-1605

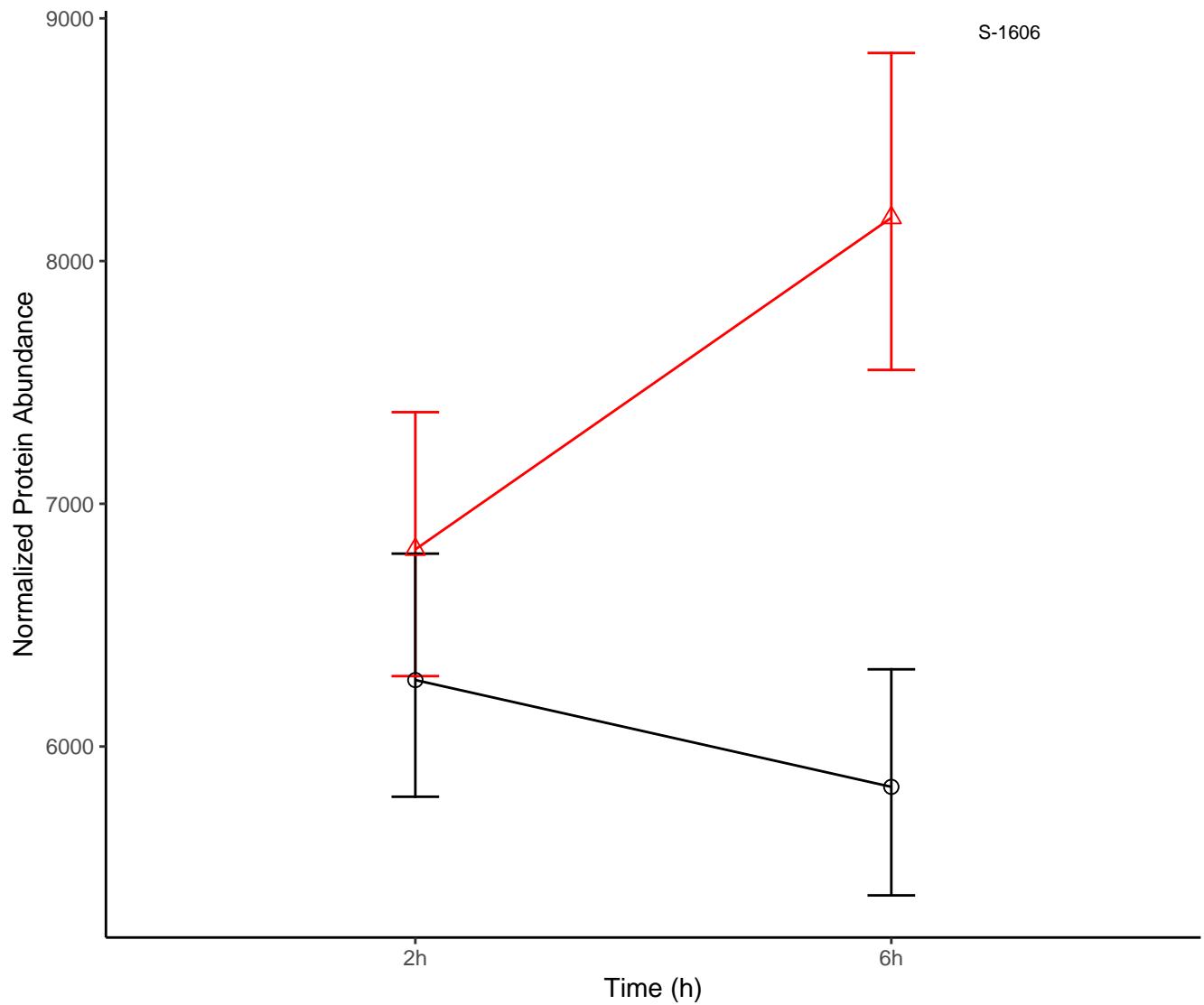


○ TSB-dex

△ TSB

# ESSA\_STAAM

S-1606

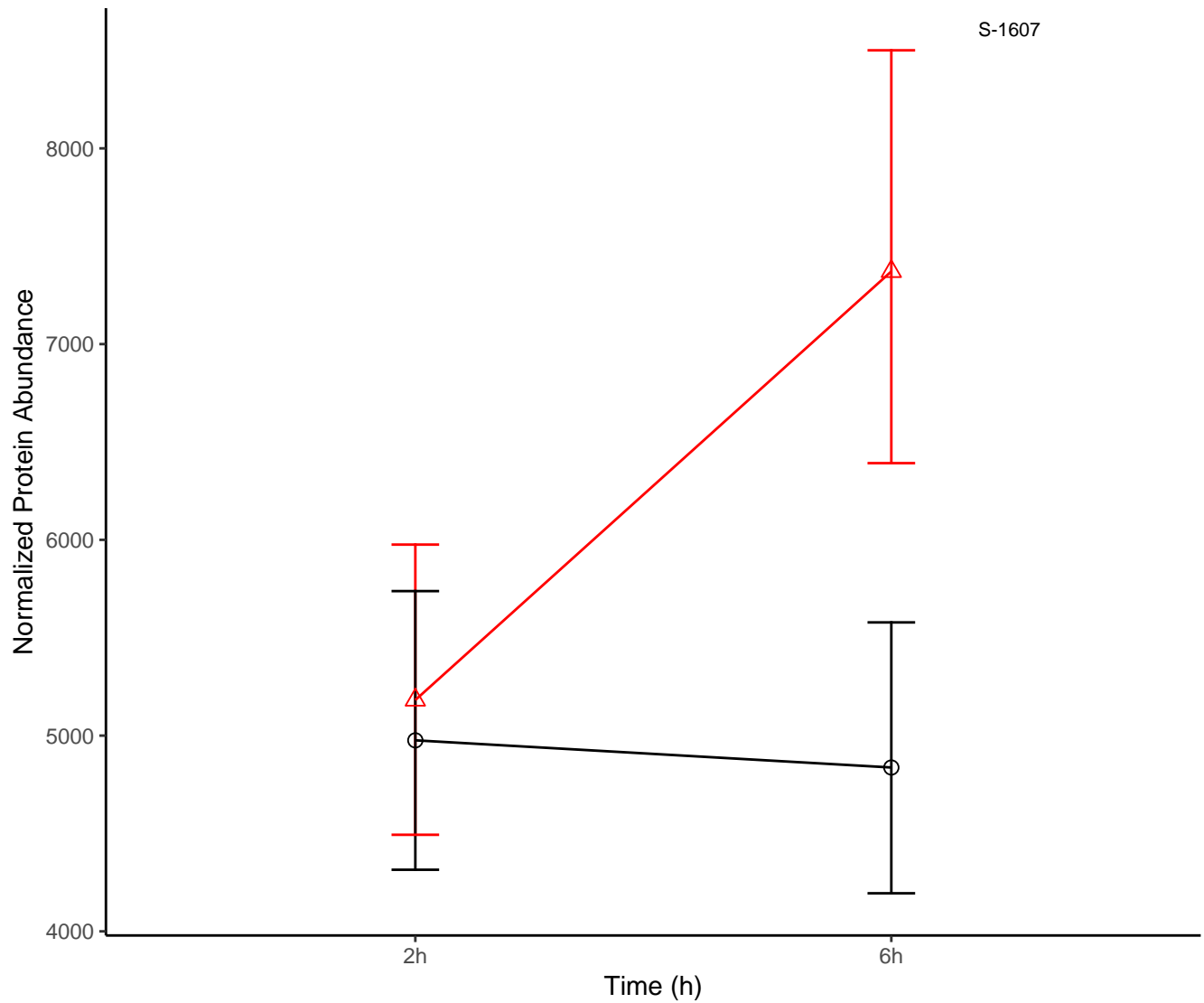


○ TSB-dex

△ TSB

# ESXA\_STAAM

S-1607

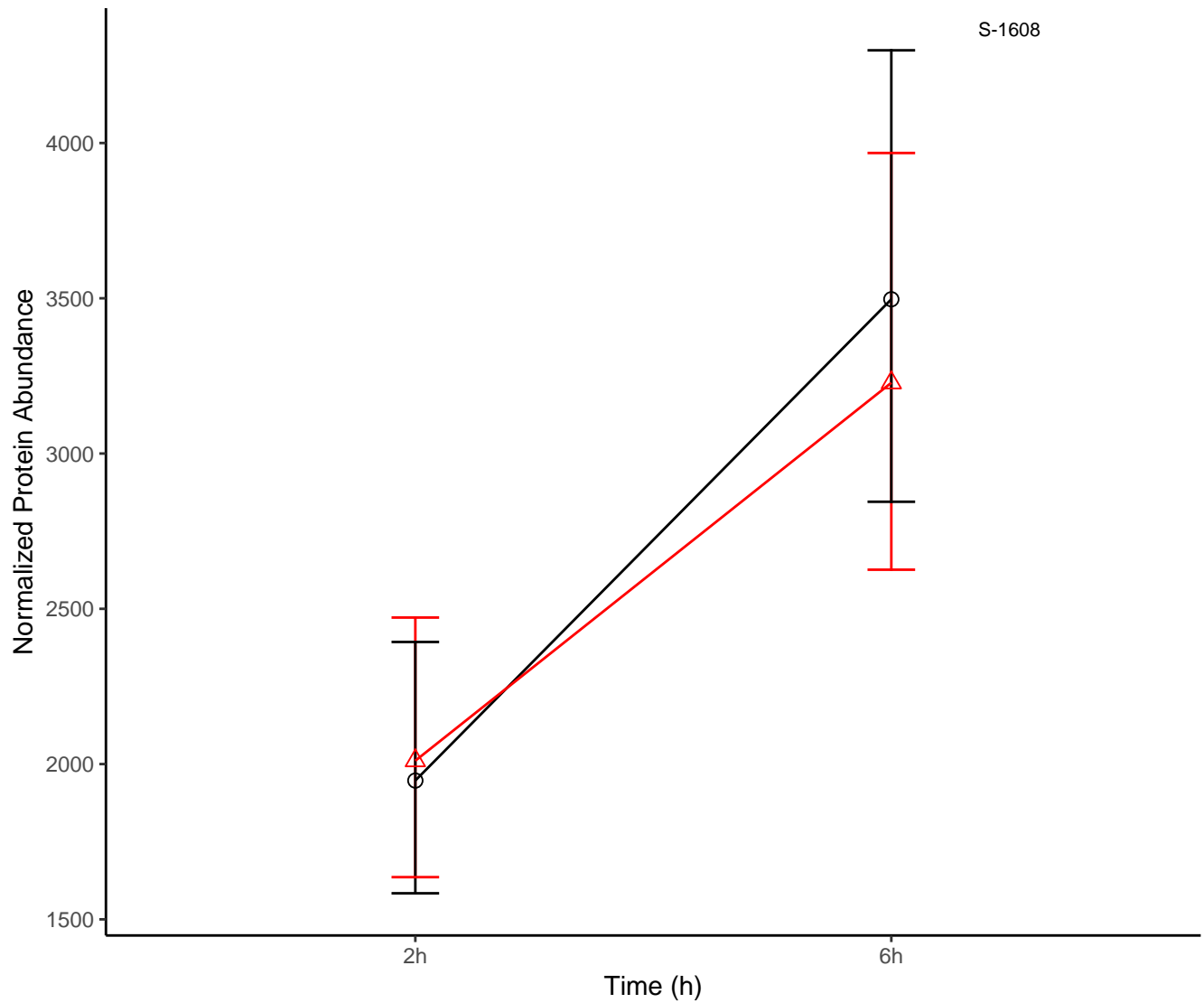


○ TSB-dex

△ TSB

# EX7L\_STAAM

S-1608



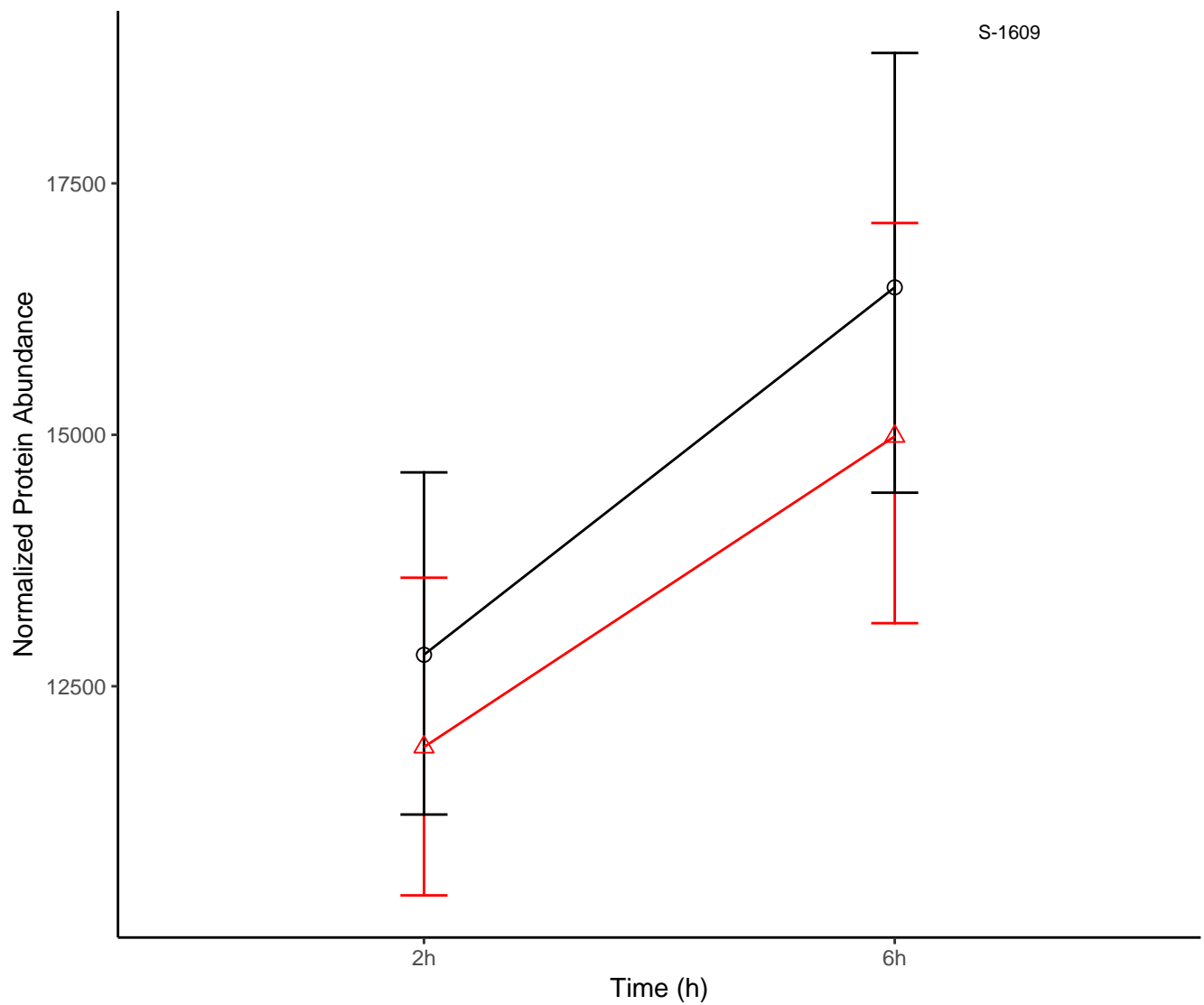
○ TSB-dex

△ TSB



# EZRA\_STAAM

S-1609

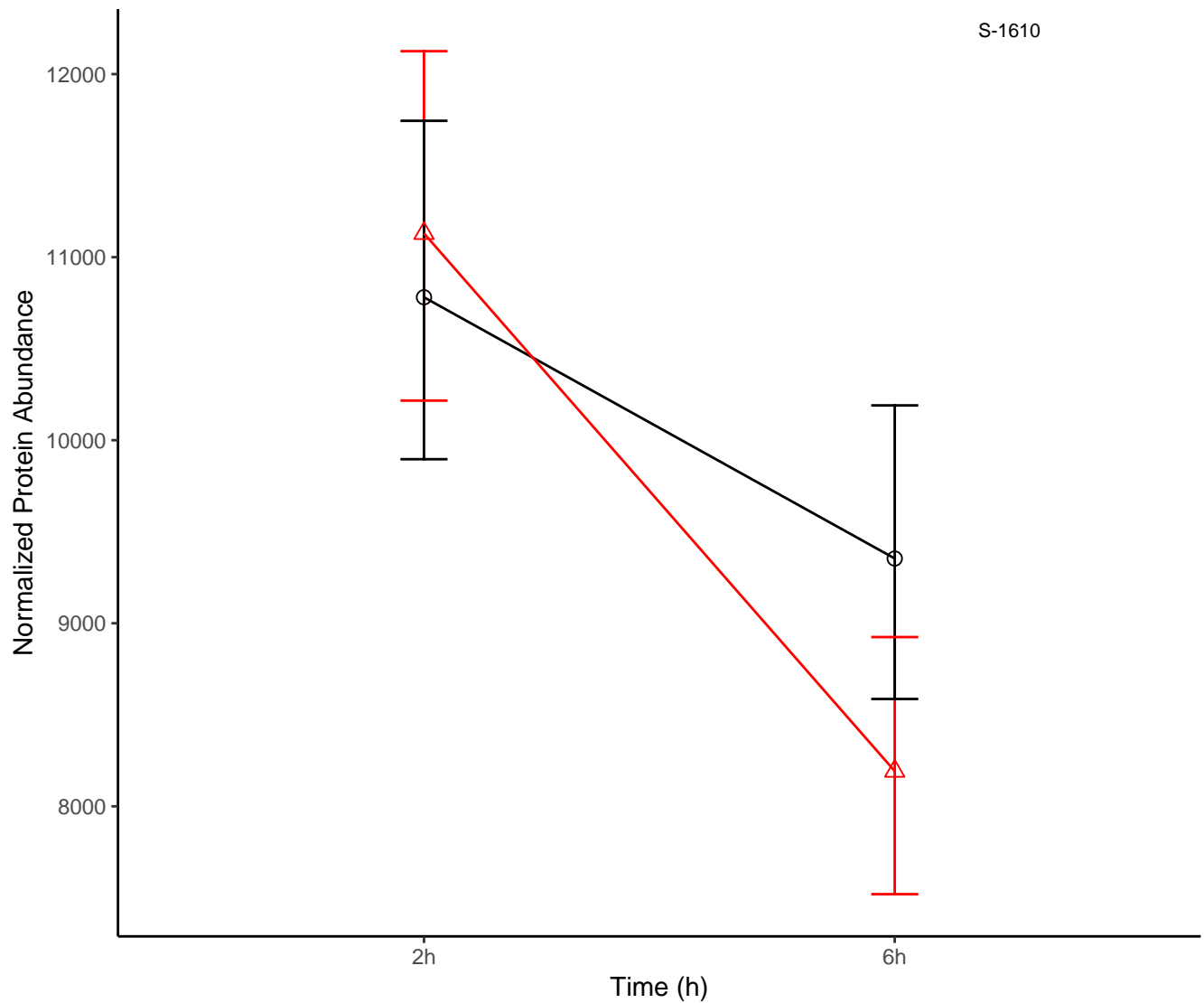


○ TSB-dex

△ TSB

# FABD\_STAAM

S-1610

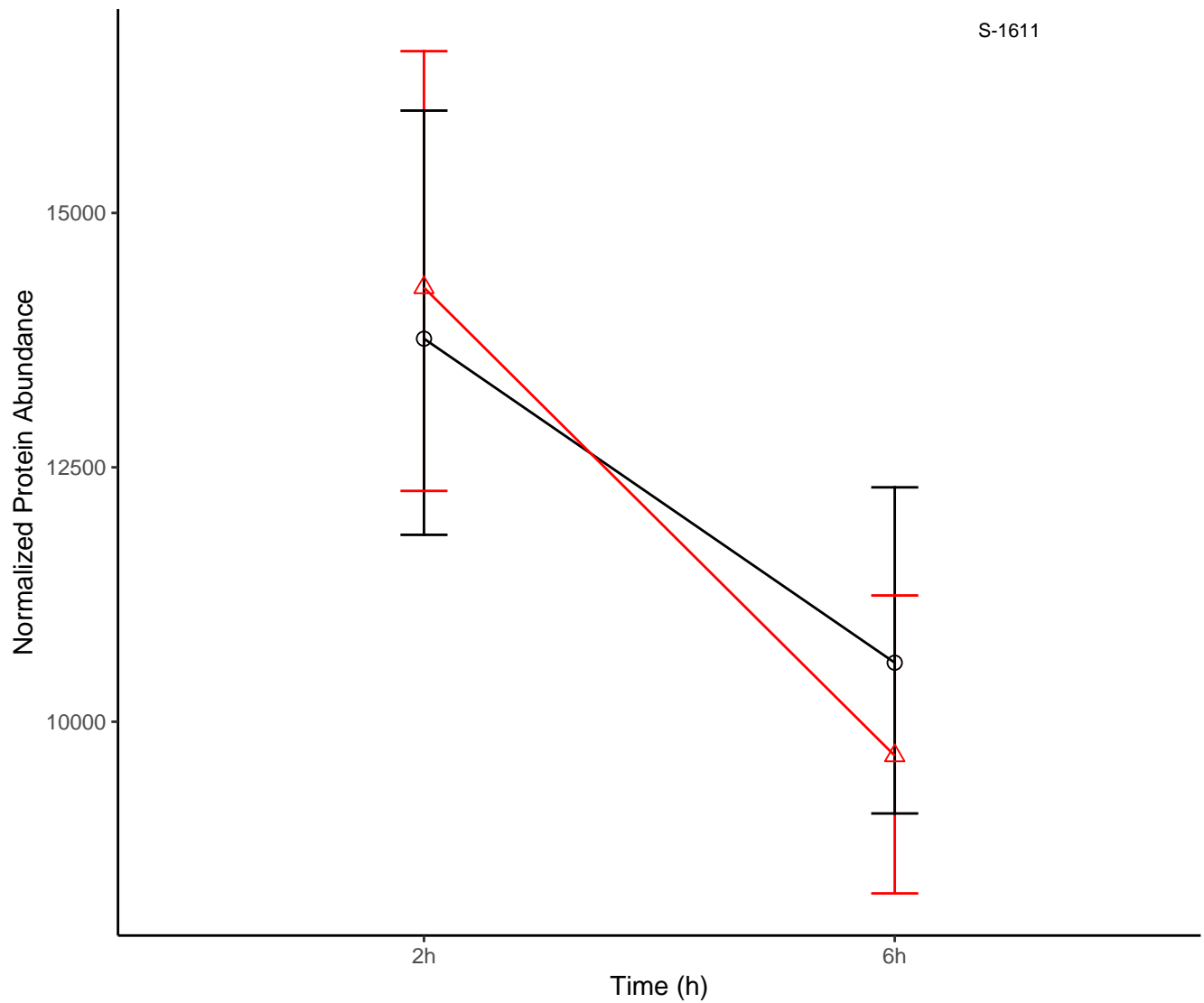


○ TSB-dex

△ TSB

# FABF\_STAAM

S-1611

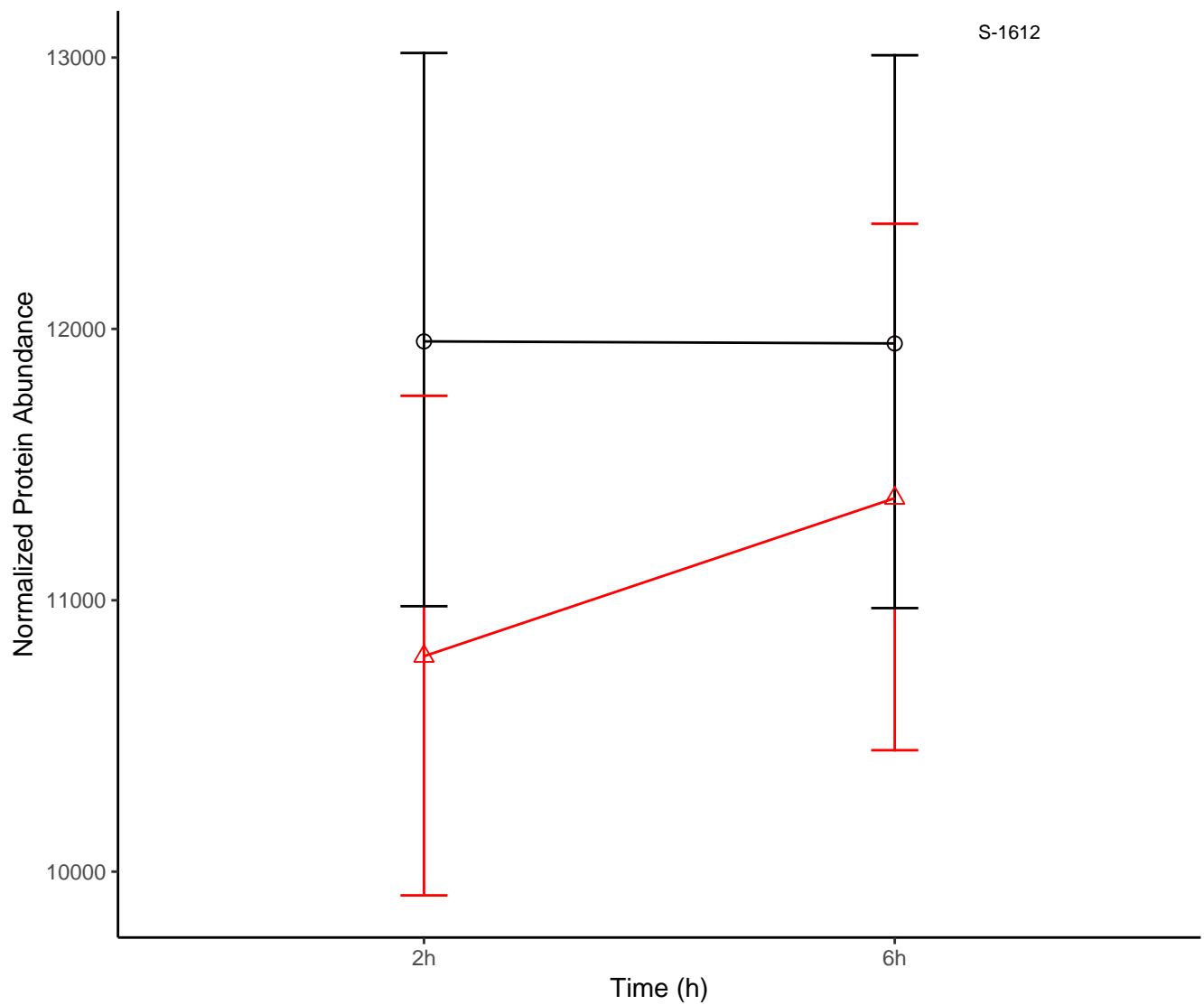


○ TSB-dex

△ TSB

# FABG\_STAAM

S-1612

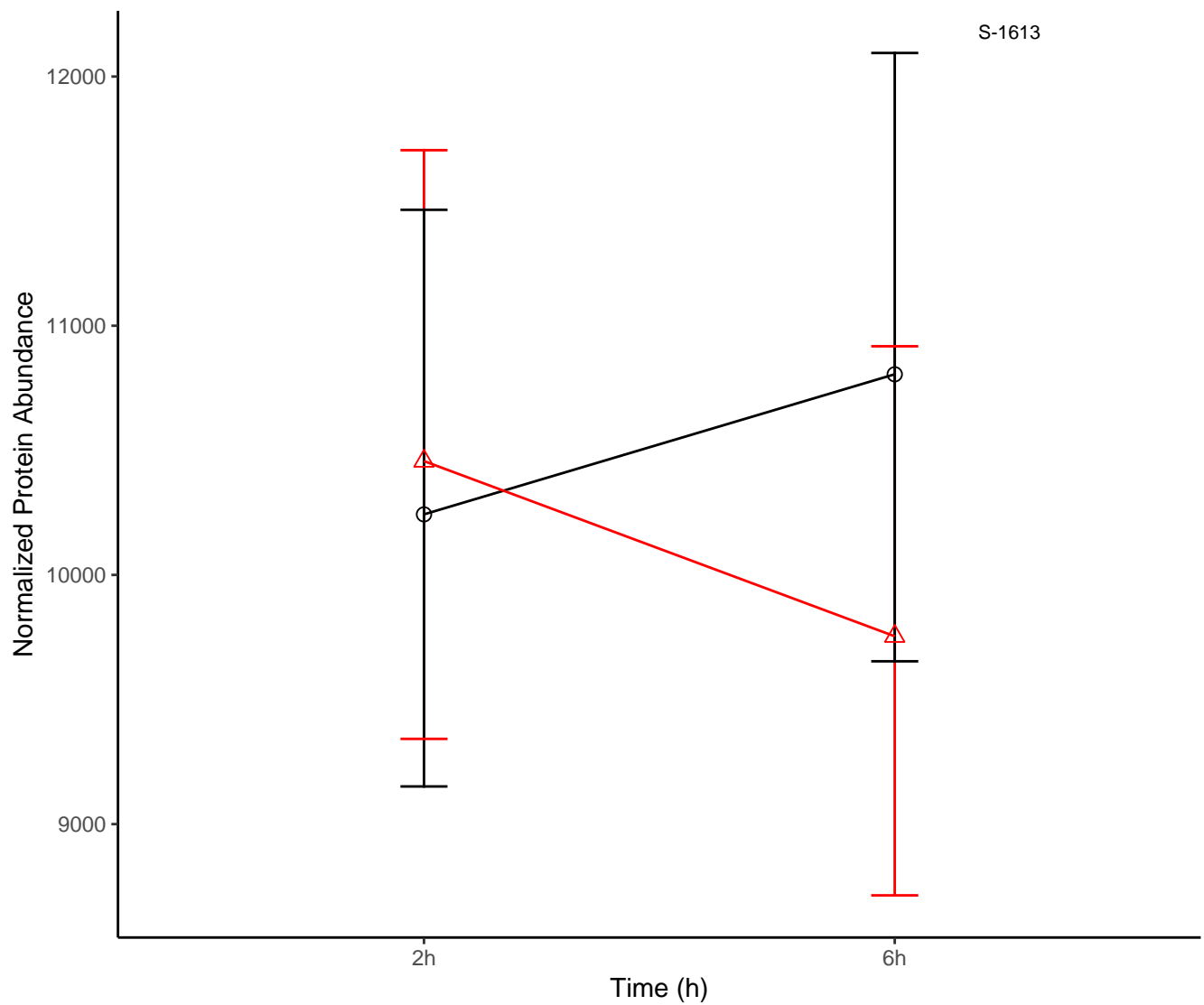


○ TSB-dex

△ TSB

# FABH\_STAAM

S-1613

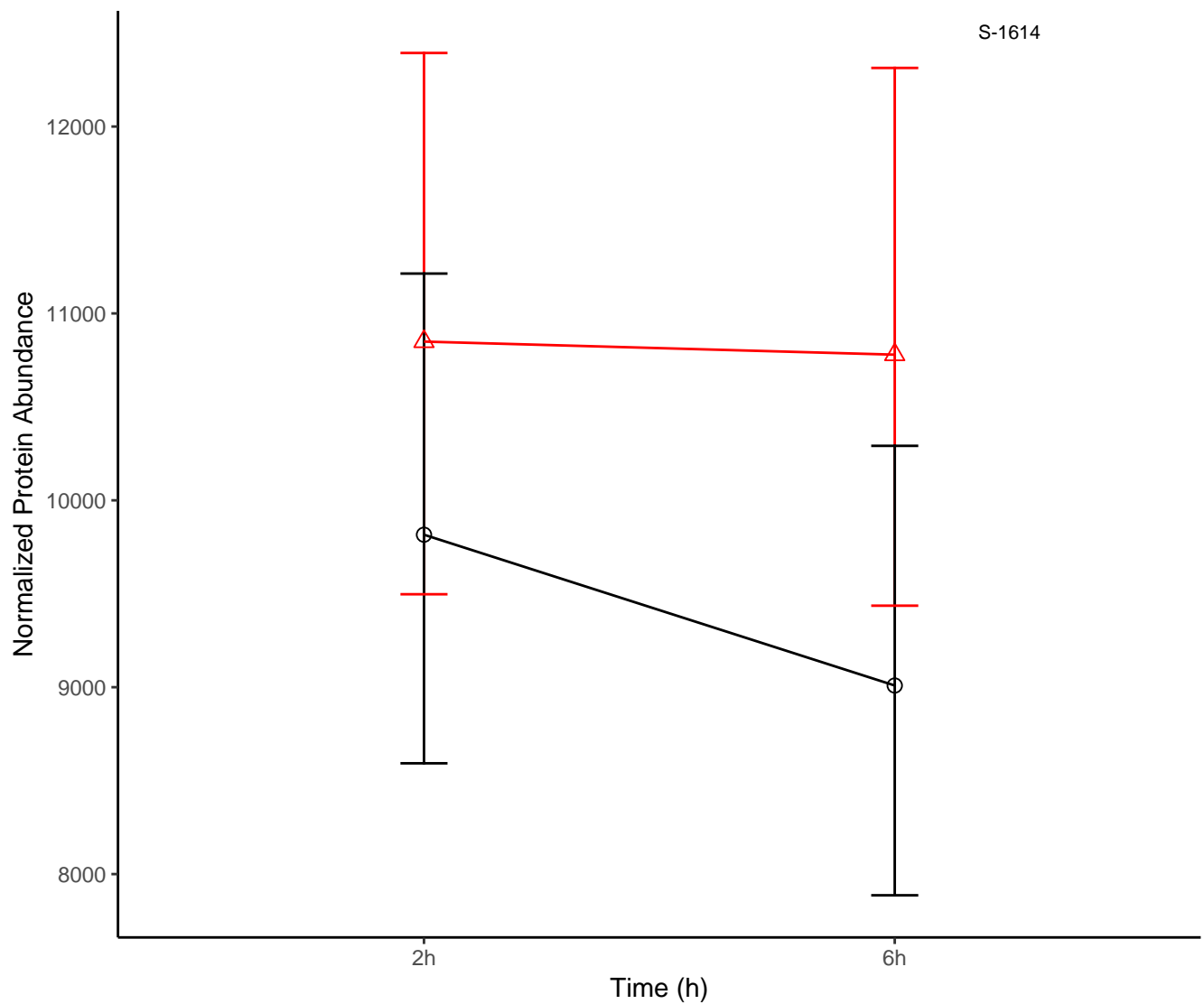


○ TSB-dex

△ TSB

# FABZ\_STAAM

S-1614

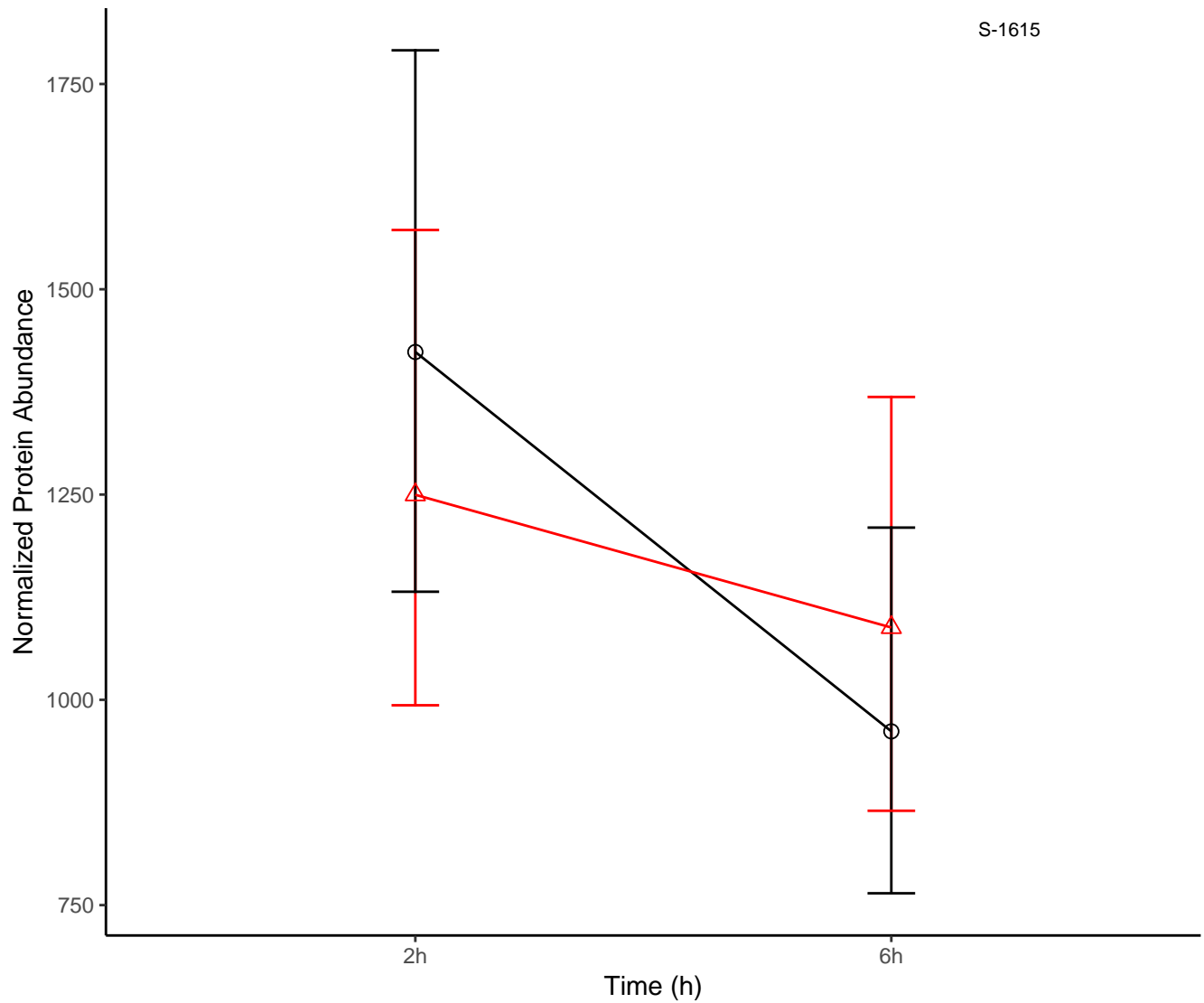


○ TSB-dex

△ TSB

# FEMA\_STAAM

S-1615

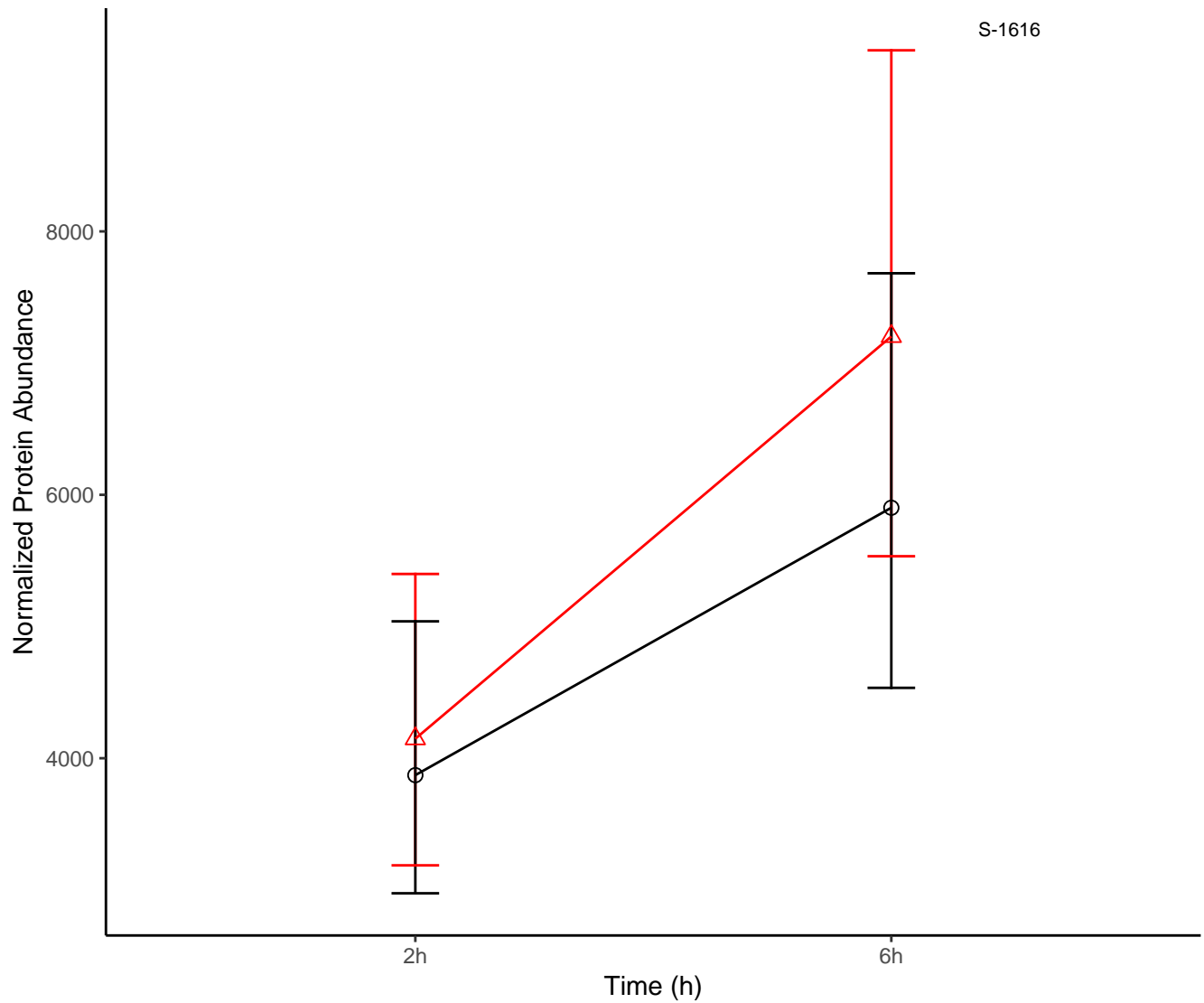


○ TSB-dex

△ TSB

# FEMB\_STAAM

S-1616



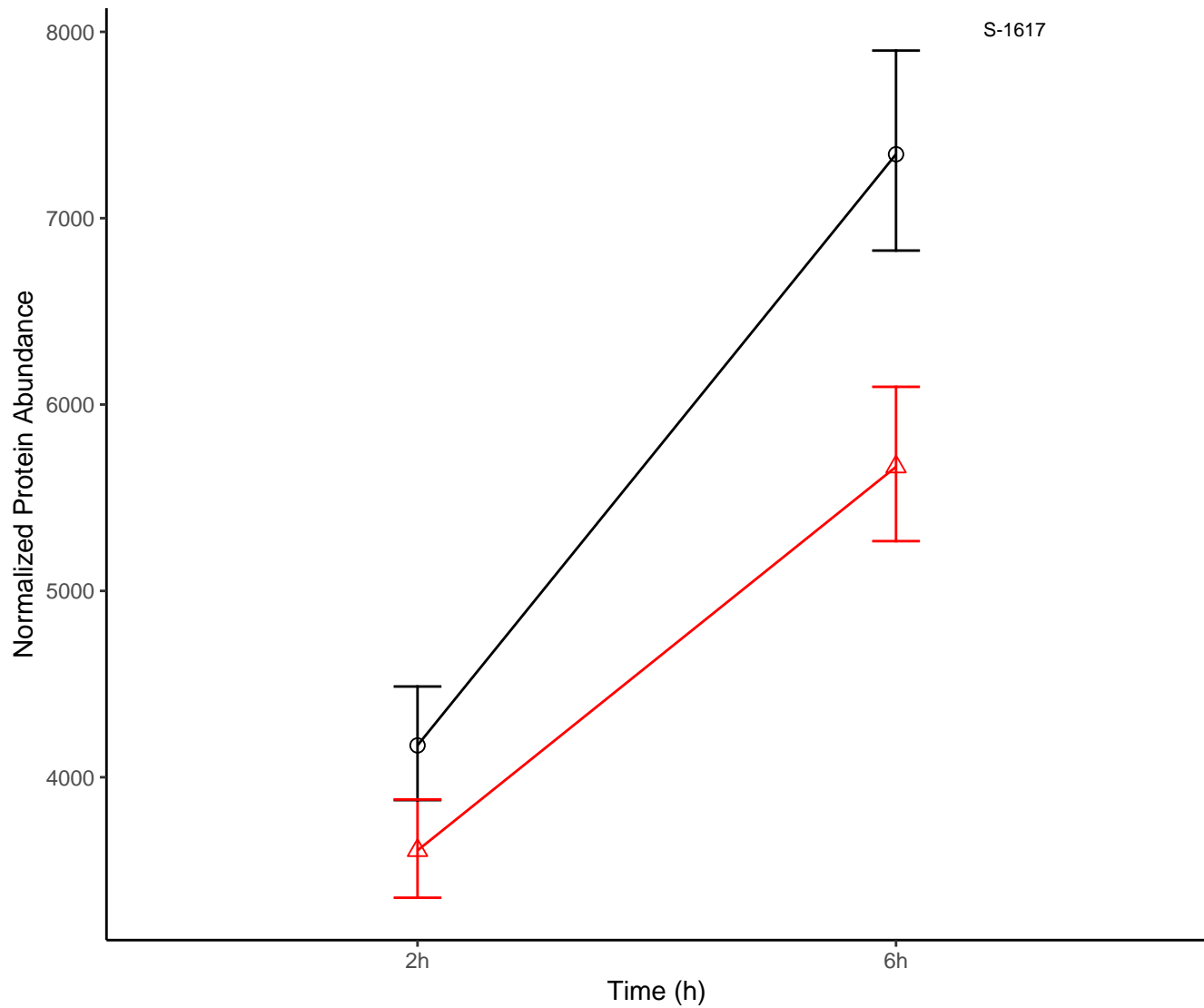
○ TSB-dex

△ TSB



# FEMX\_STAAM

S-1617

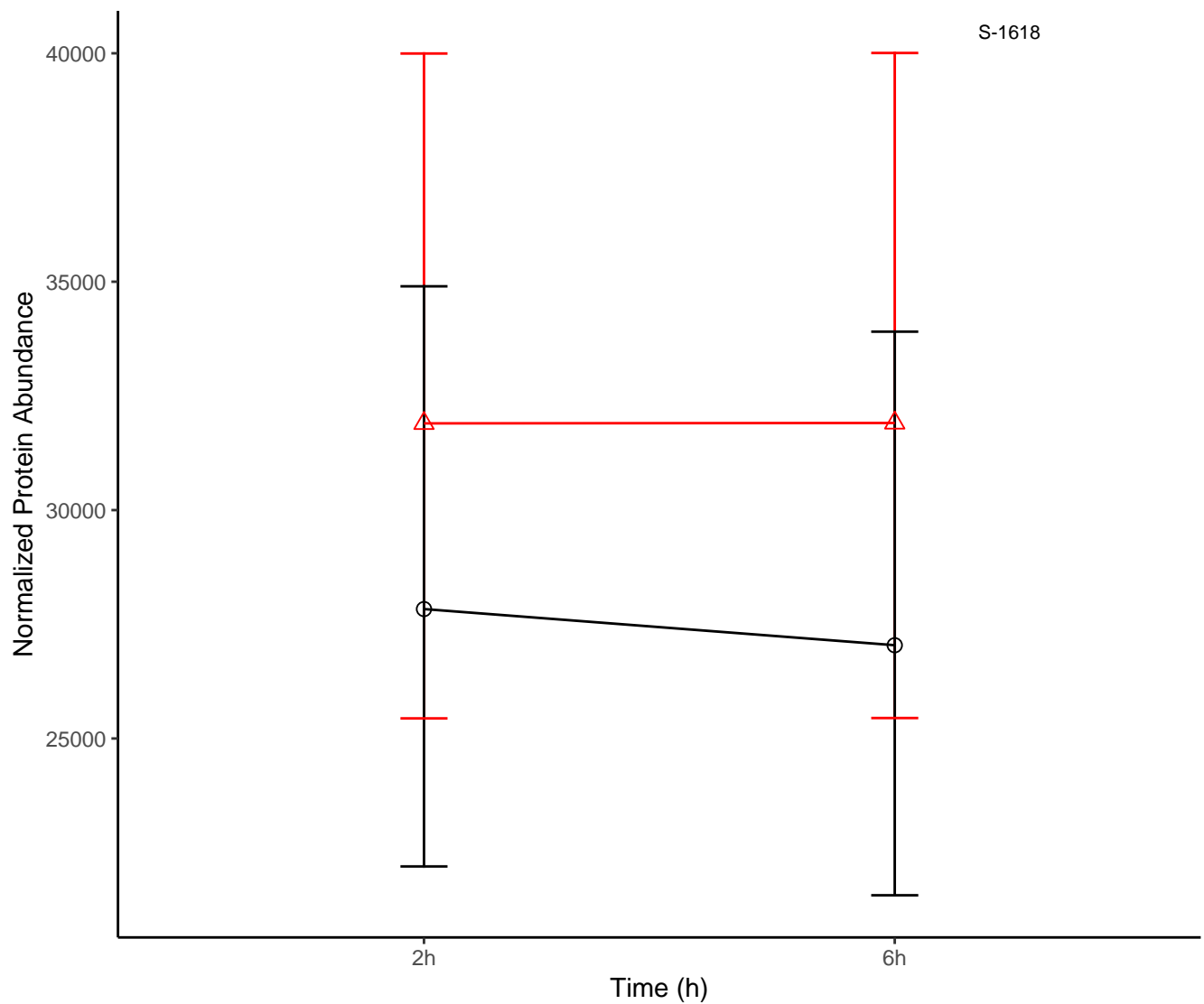


○ TSB-dex

△ TSB

# FENR\_STAAM

S-1618

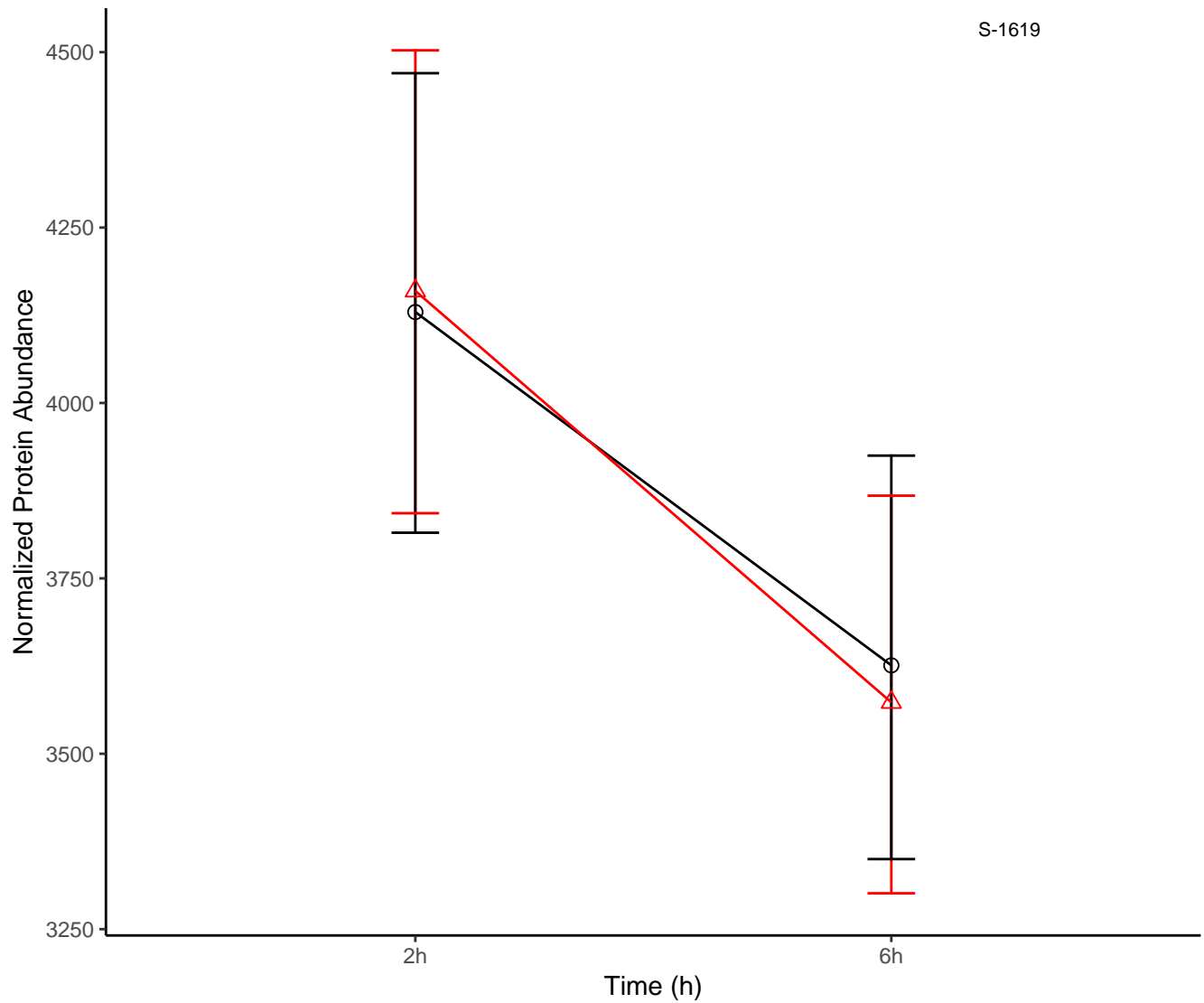


○ TSB-dex

△ TSB

# FLIPR\_STAAM

S-1619

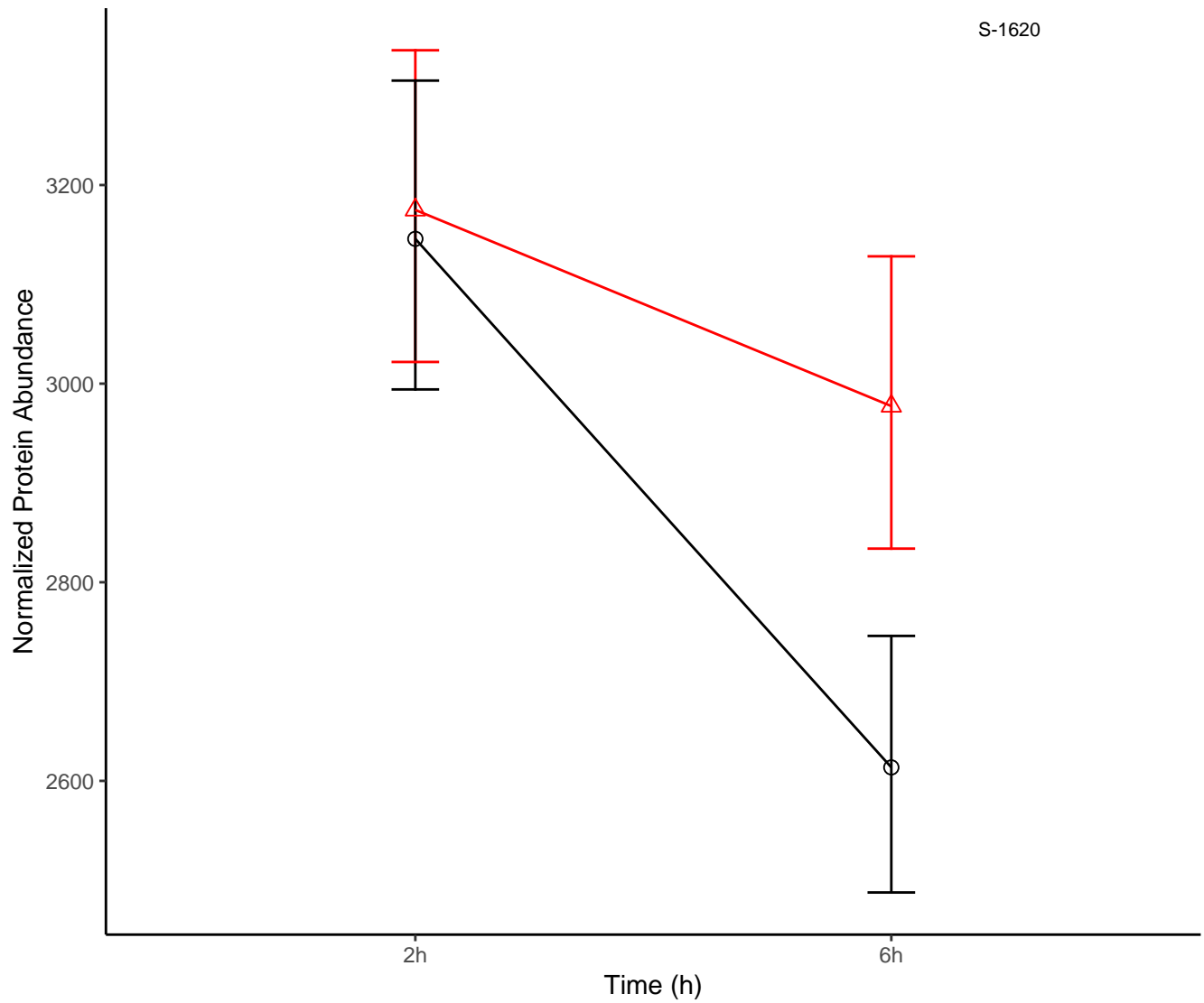


○ TSB-dex

△ TSB

# FMT\_STAAM

S-1620

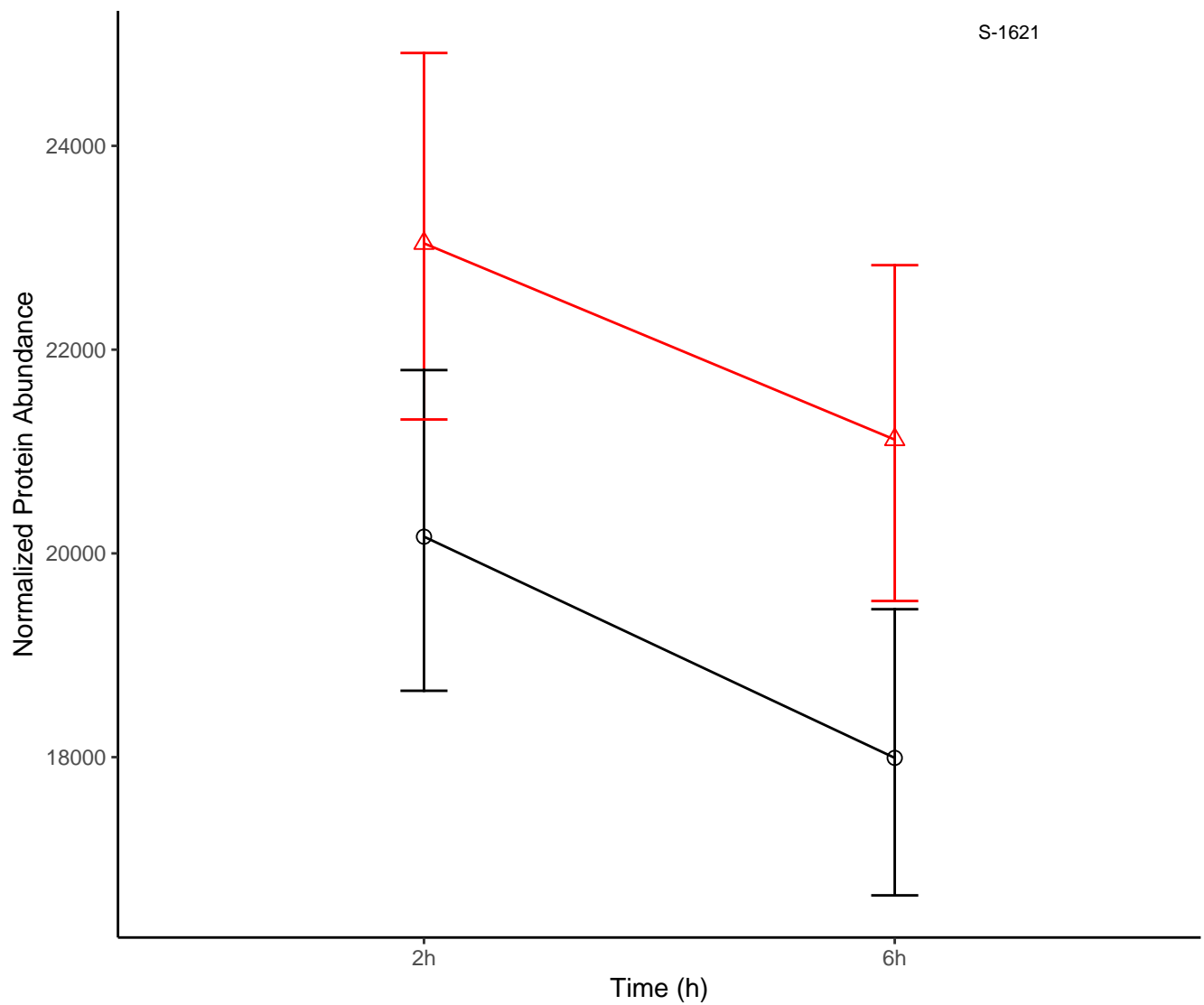


○ TSB-dex

△ TSB

# FMTA\_STAAM

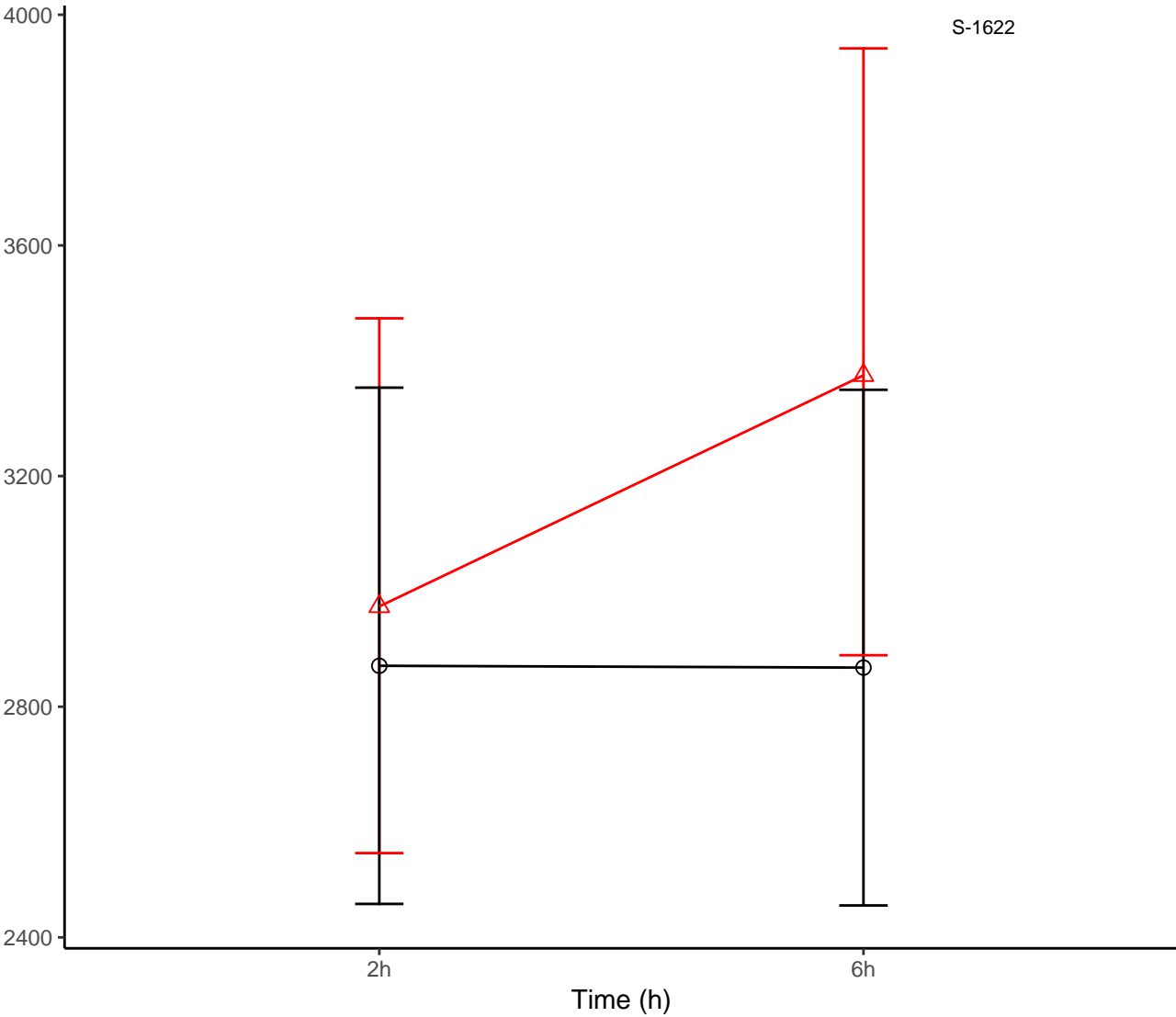
S-1621



○ TSB-dex

△ TSB

# FOLB\_STAAM



○ TSB-dex

△ TSB

# FOLD\_STAAM

S-1623

Normalized Protein Abundance

17500

15000

12500

10000

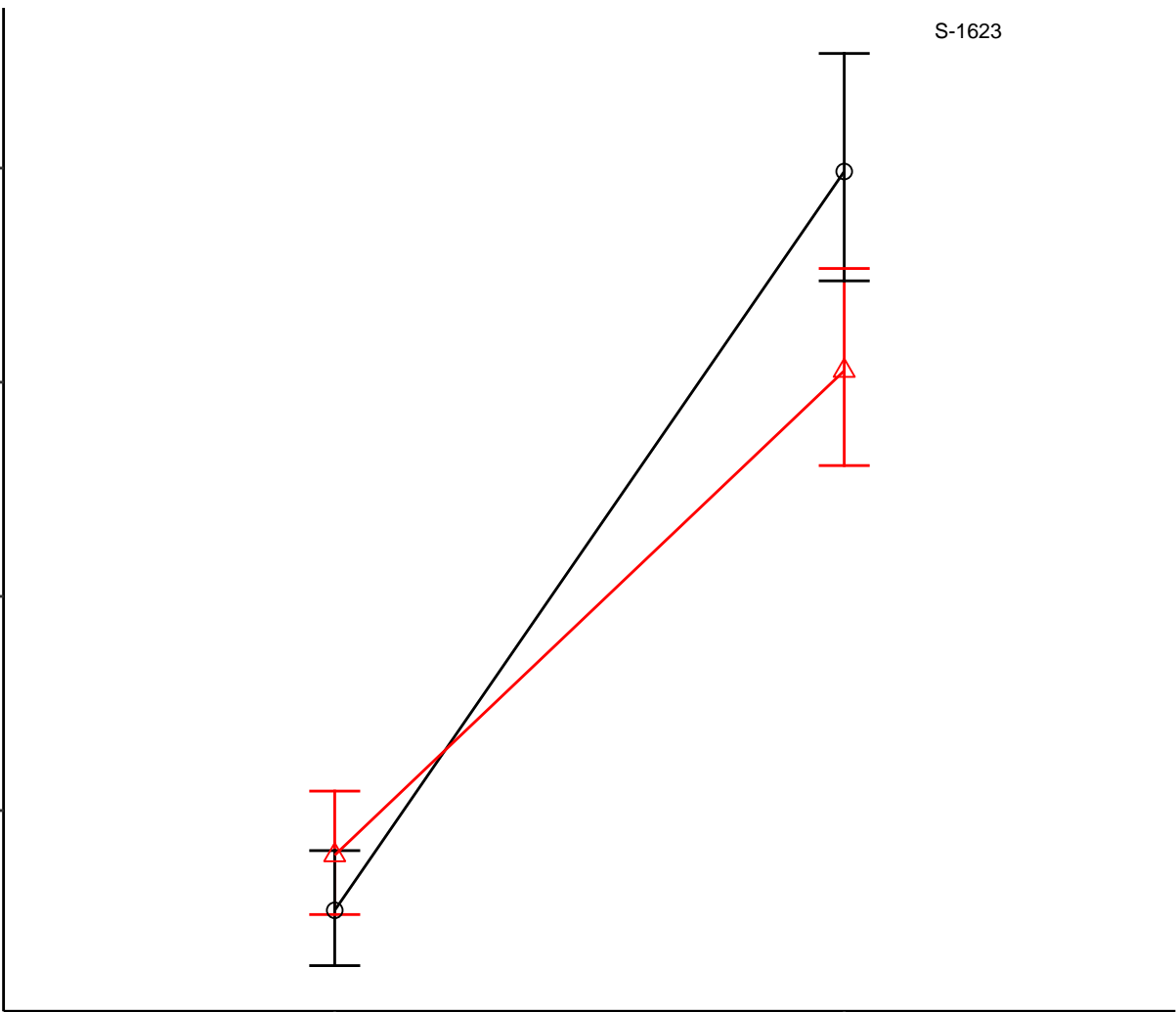
2h

6h

Time (h)

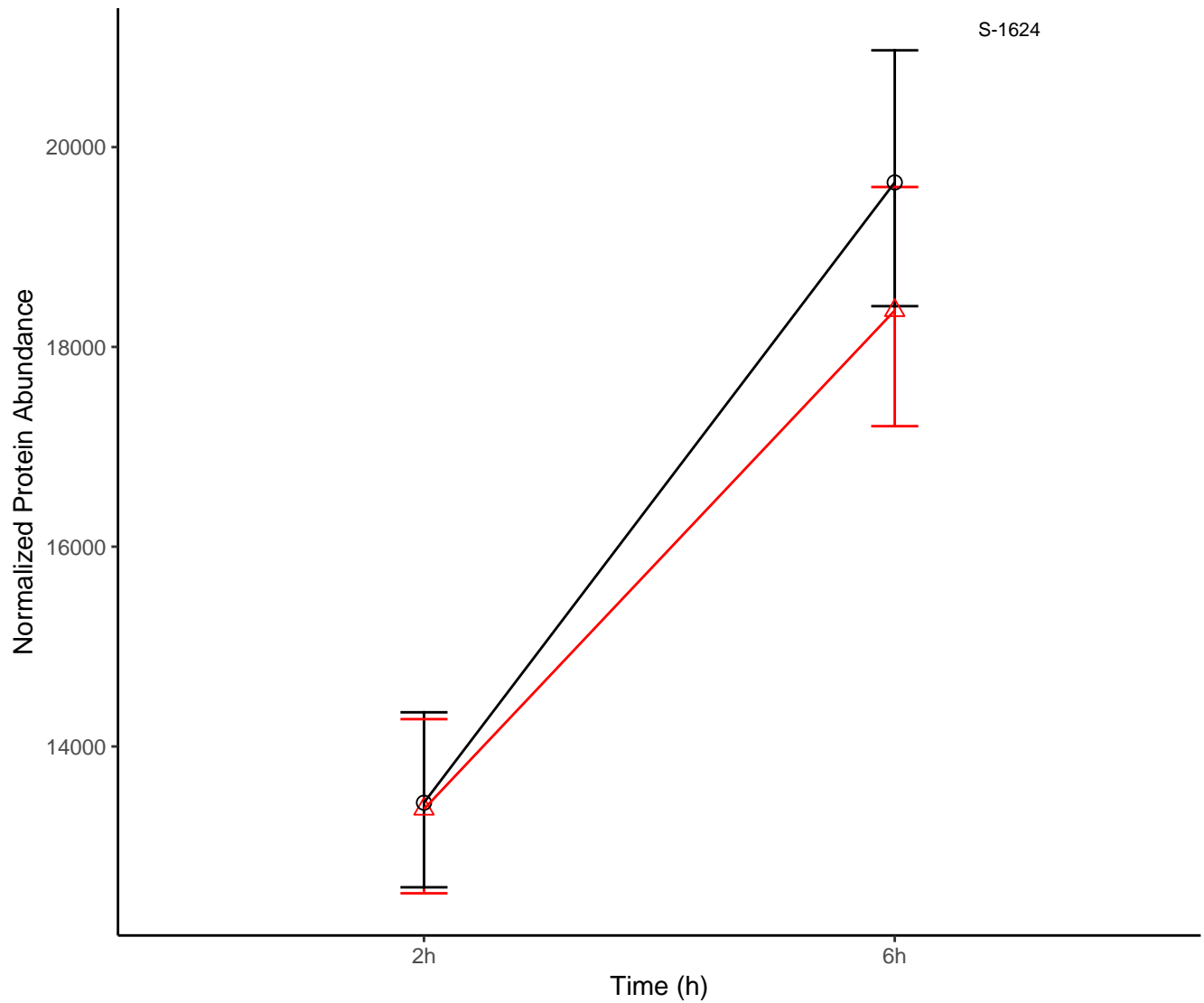
○ TSB-dex

△ TSB



# FTHS\_STAAM

S-1624



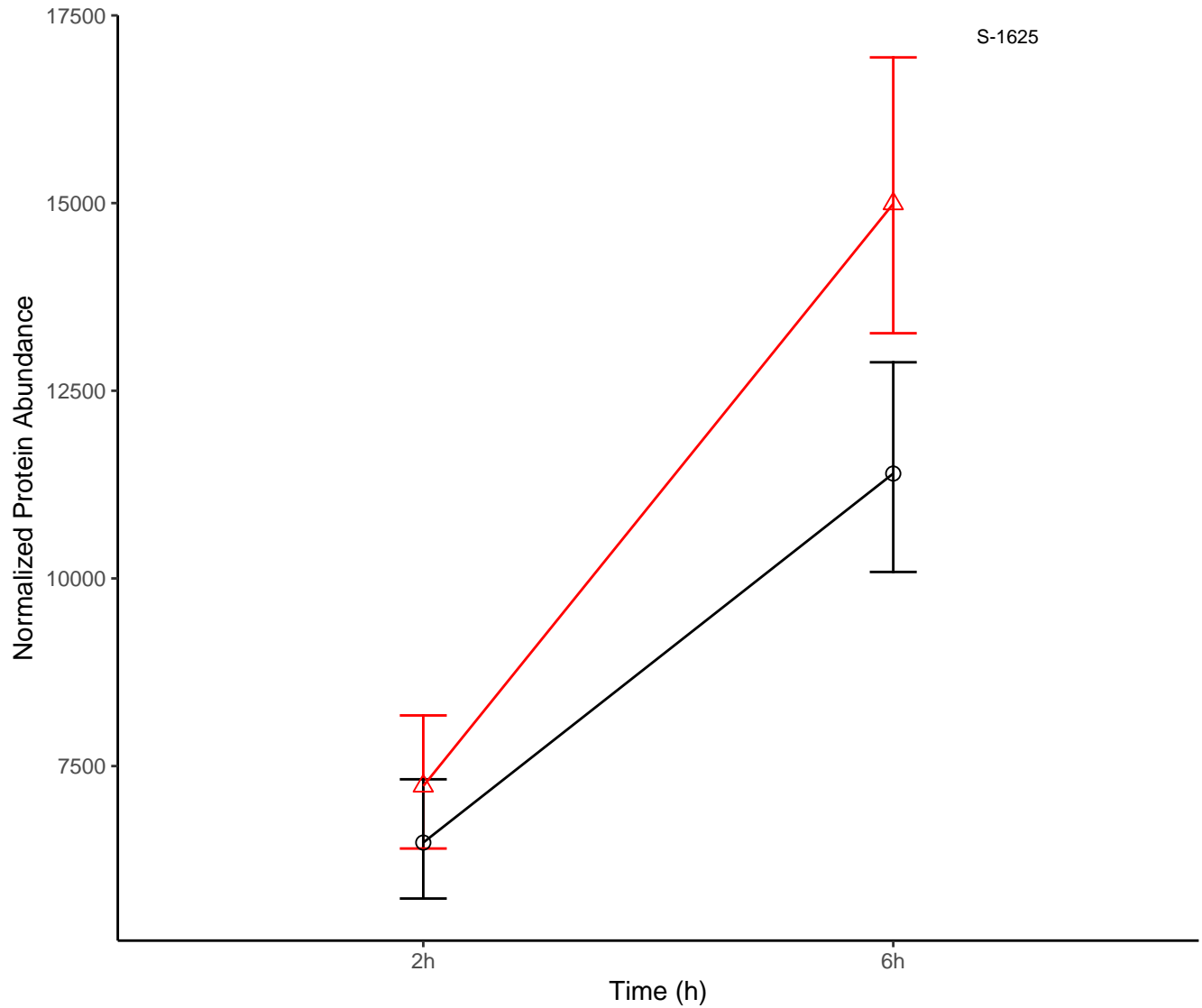
○ TSB-dex

△ TSB



# FTN\_STAAM

S-1625

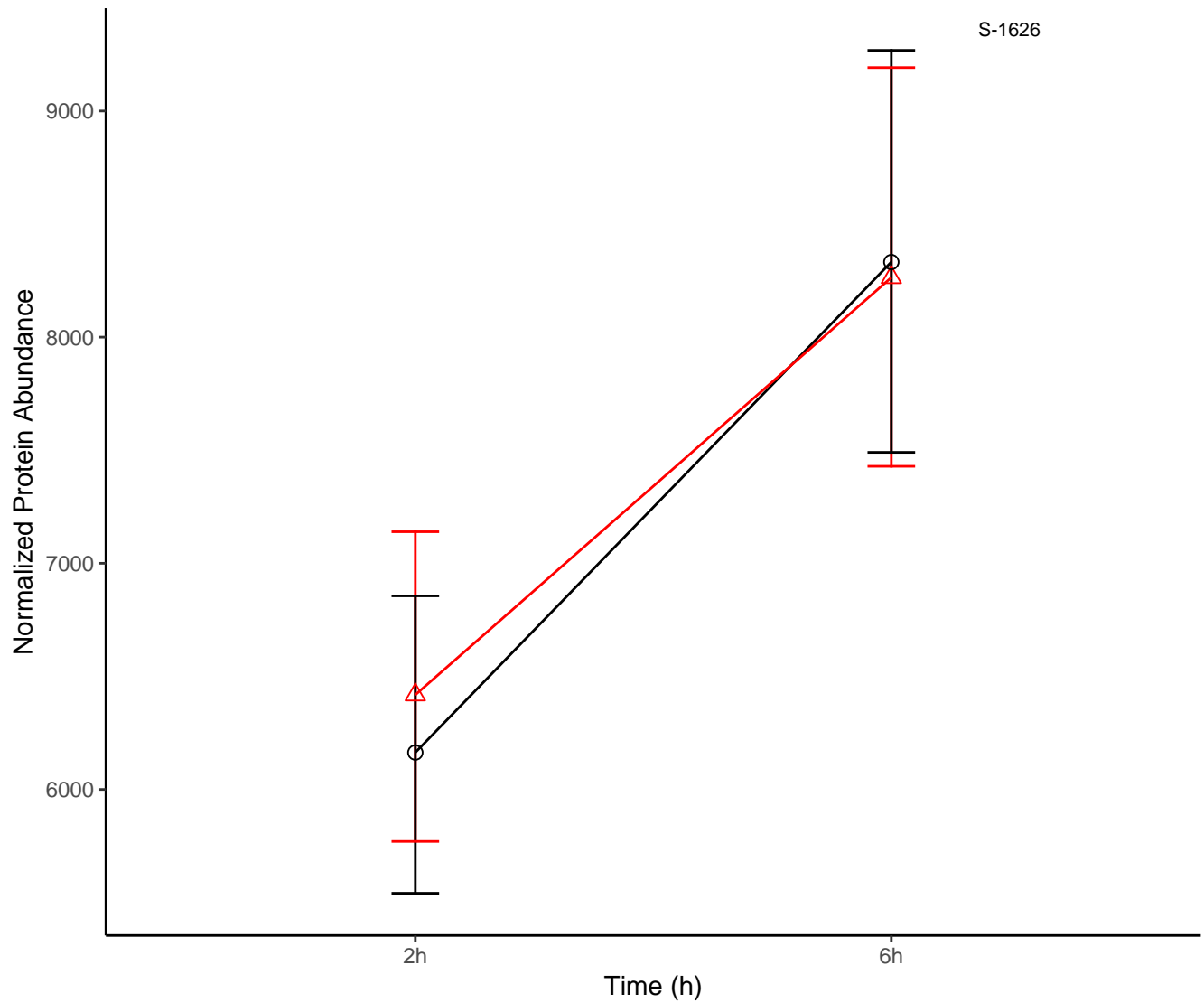


○ TSB-dex

△ TSB

# FTSA\_STAAM

S-1626

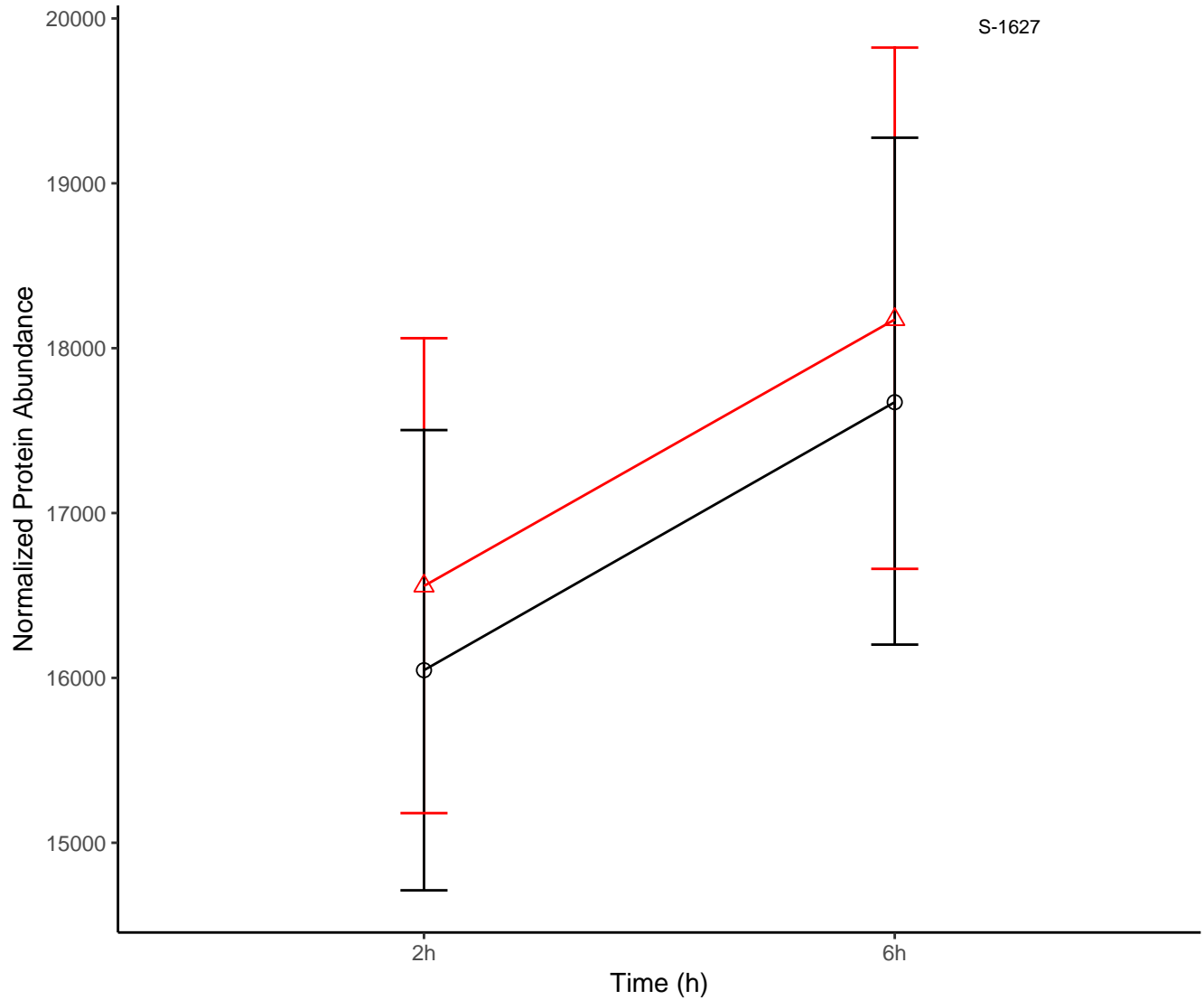


○ TSB-dex

△ TSB

# FTSZ\_STAAM

S-1627

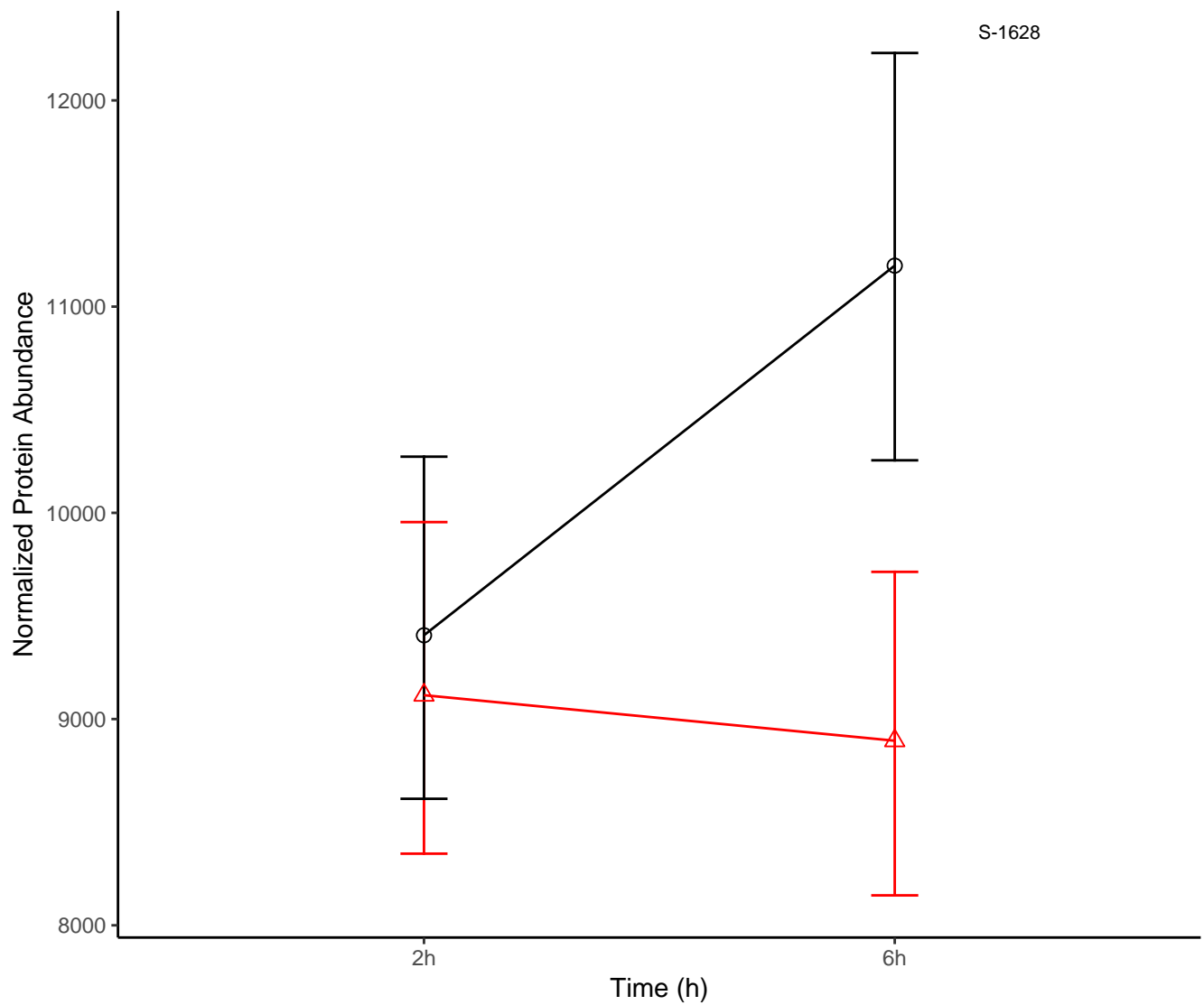


○ TSB-dex

△ TSB

# FUMC\_STAAM

S-1628

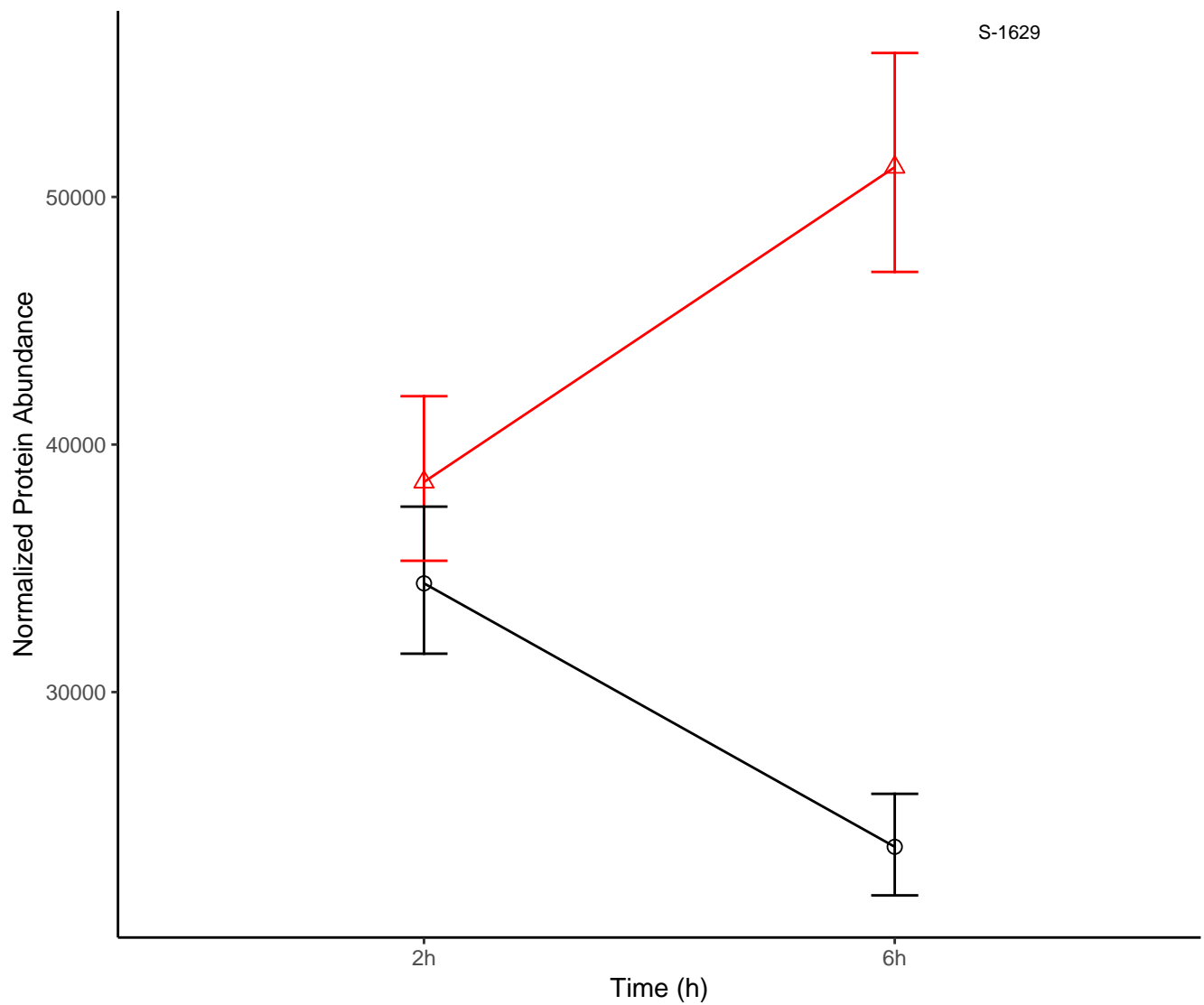


○ TSB-dex

△ TSB

# G3P1\_STAAM

S-1629

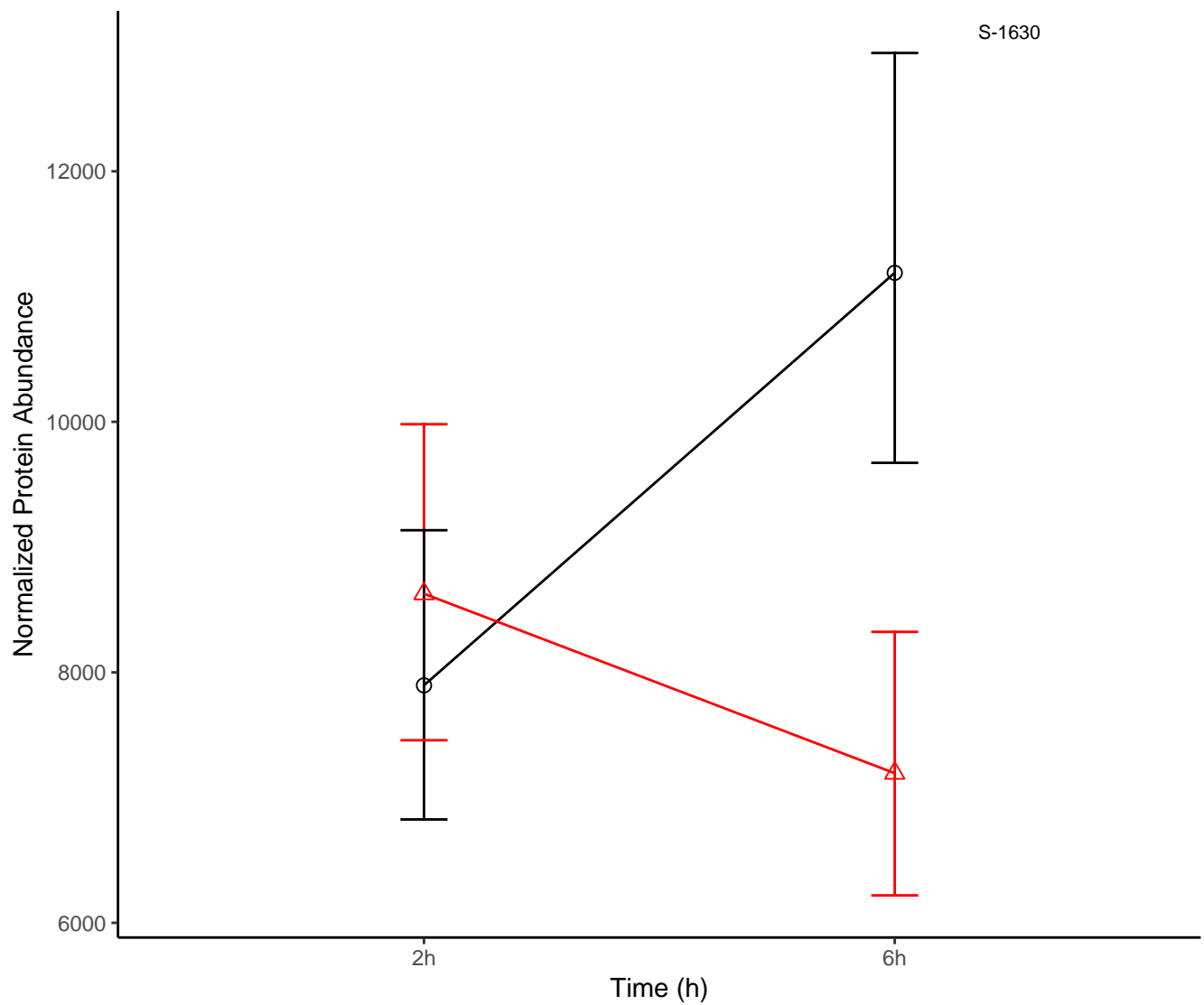


○ TSB-dex

△ TSB

# G3P2\_STAAM

S-1630

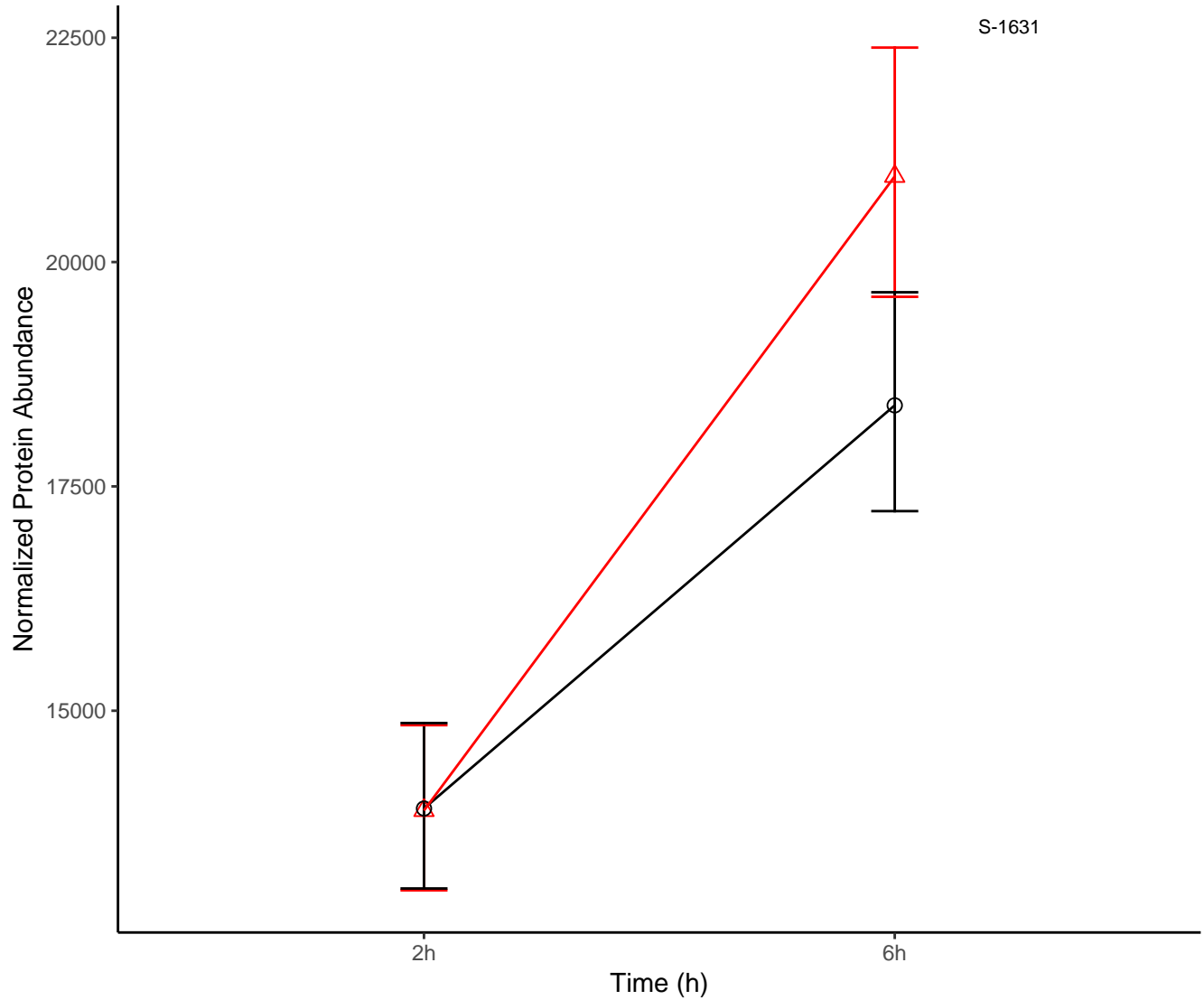


○ TSB-dex

△ TSB

# G6PI\_STAAM

S-1631

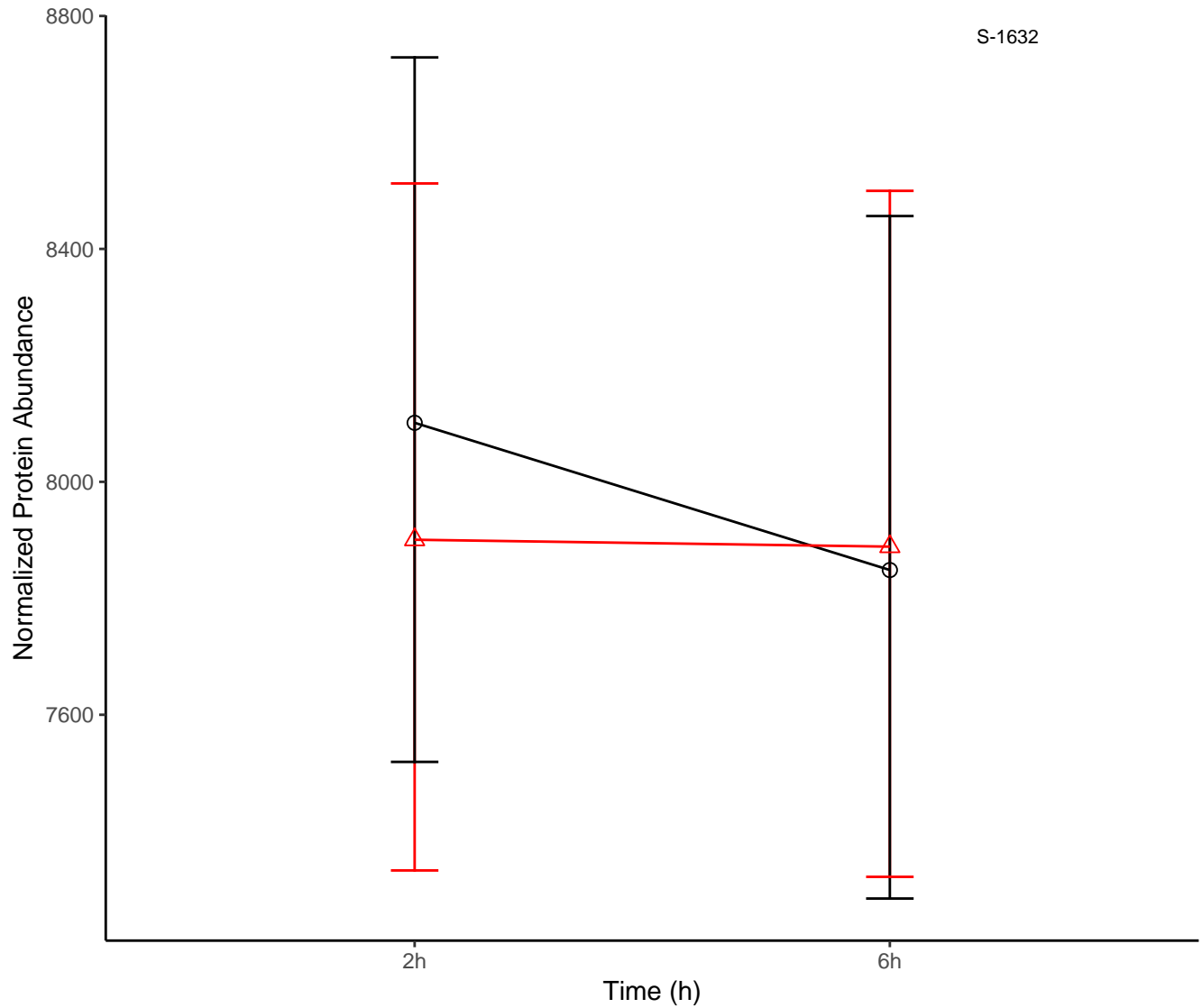


○ TSB-dex

△ TSB

# GATA\_STAAM

S-1632



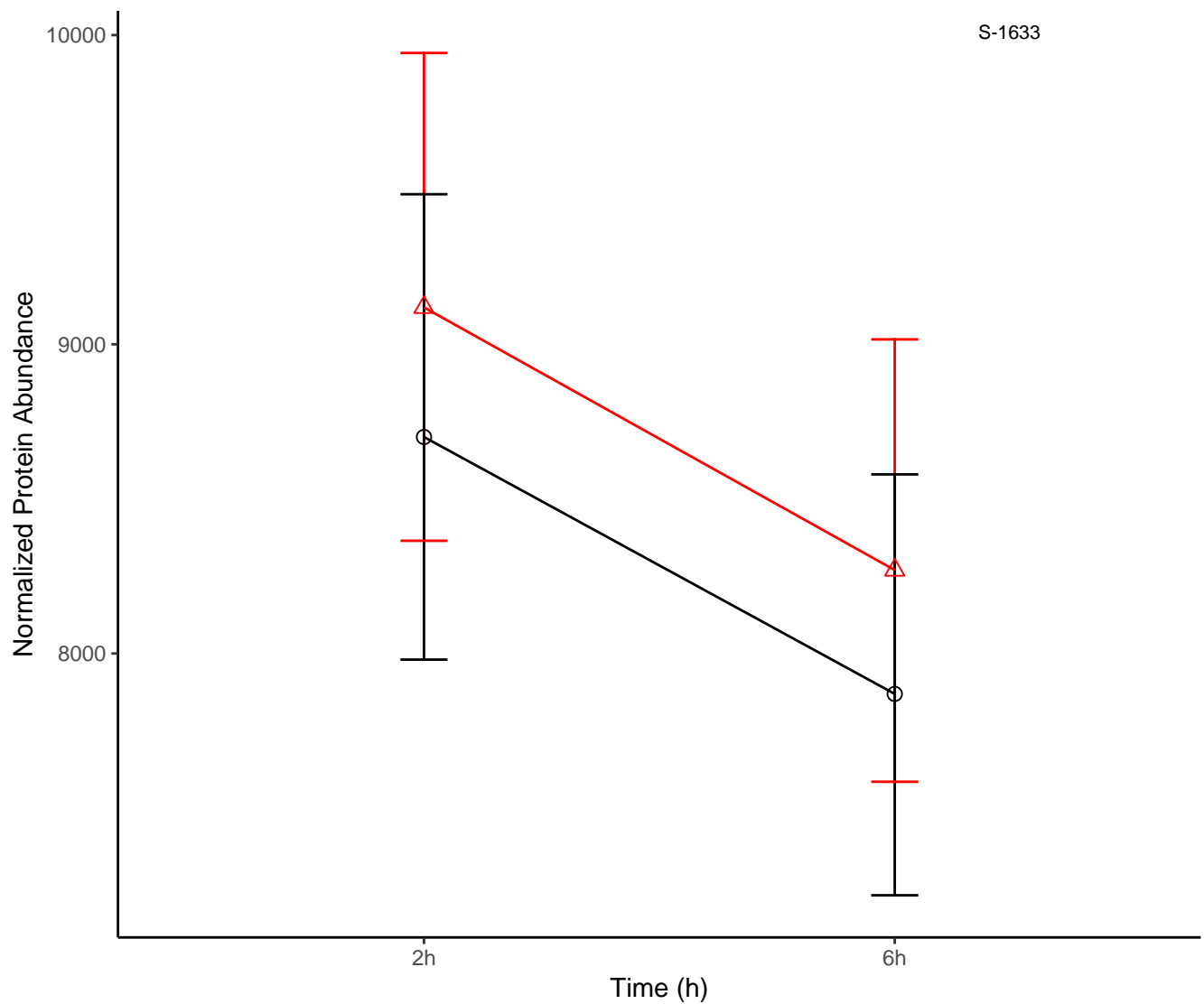
○ TSB-dex

△ TSB



# GATB\_STAAM

S-1633

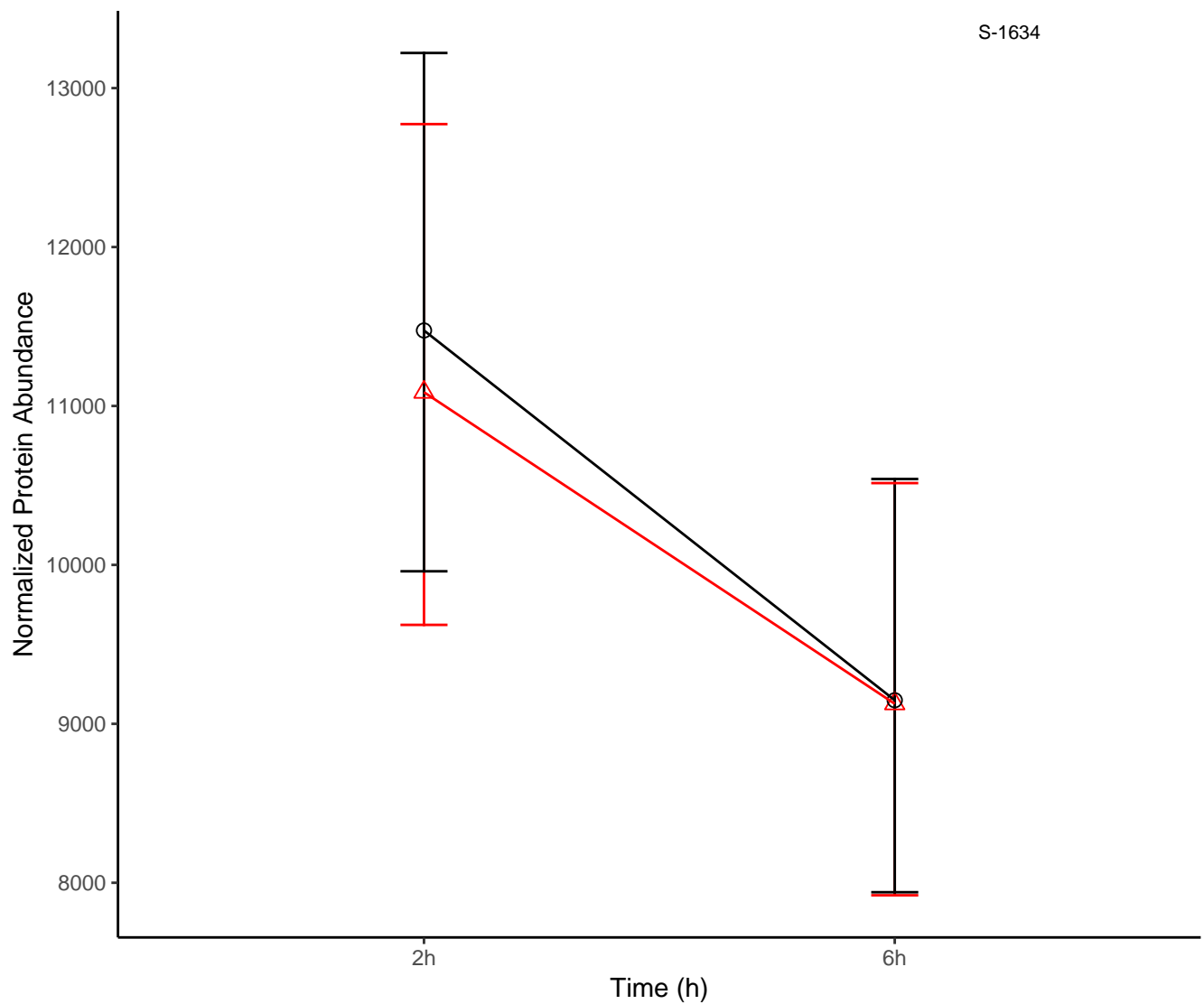


○ TSB-dex

△ TSB

# GATC\_STAAM

S-1634

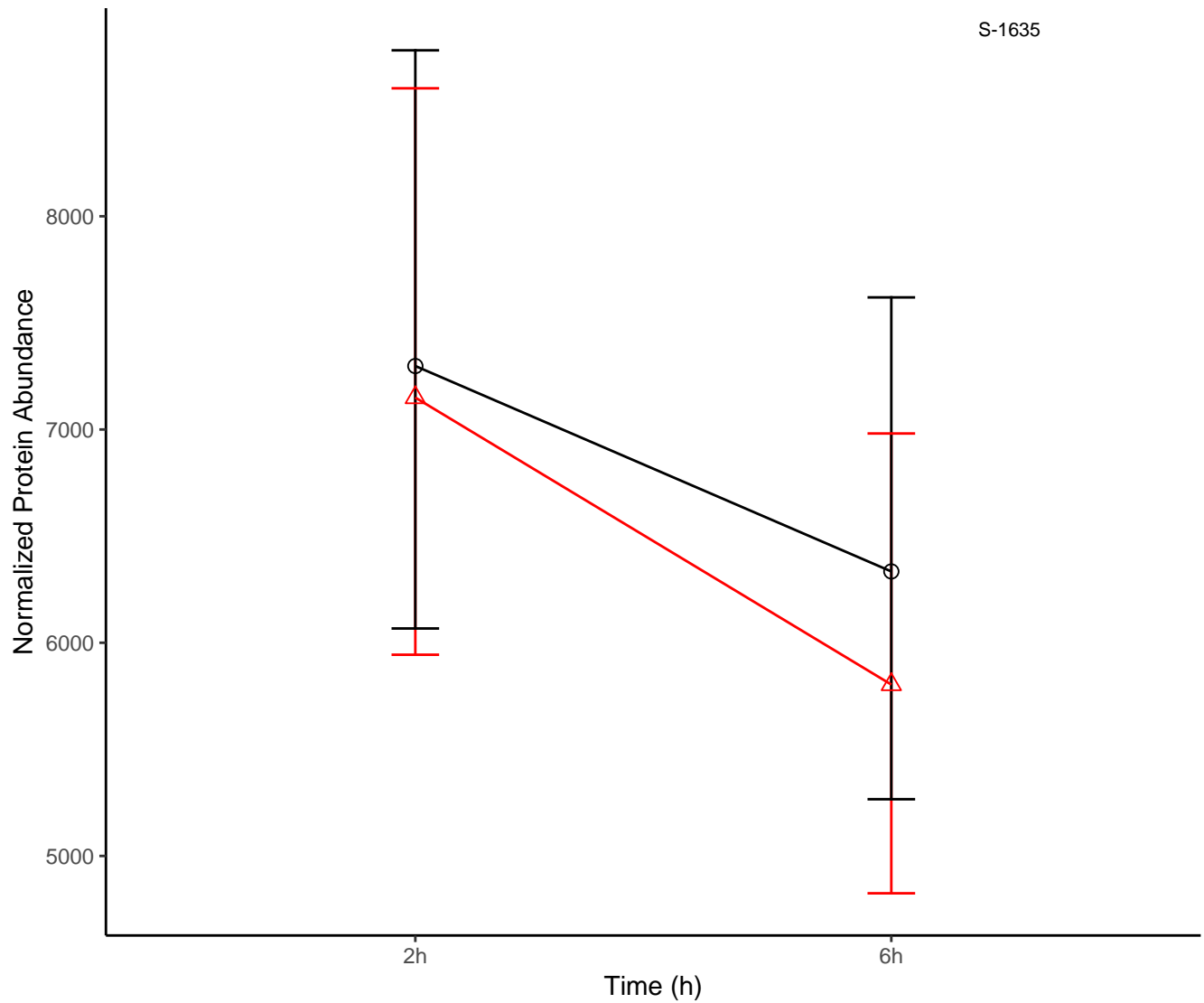


○ TSB-dex

△ TSB

# GCH4\_STAAM

S-1635

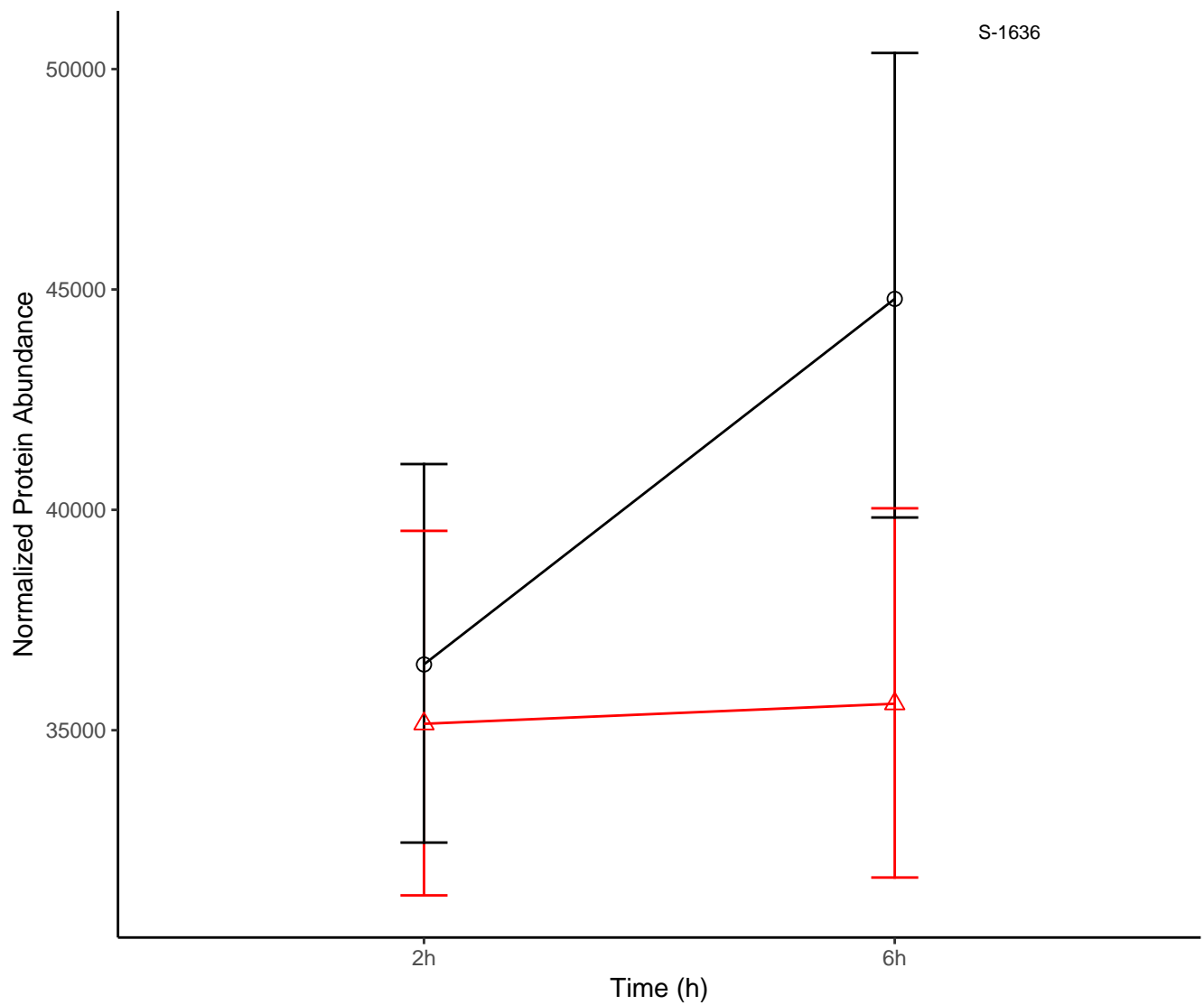


○ TSB-dex

△ TSB

# GCSH\_STAAM

S-1636

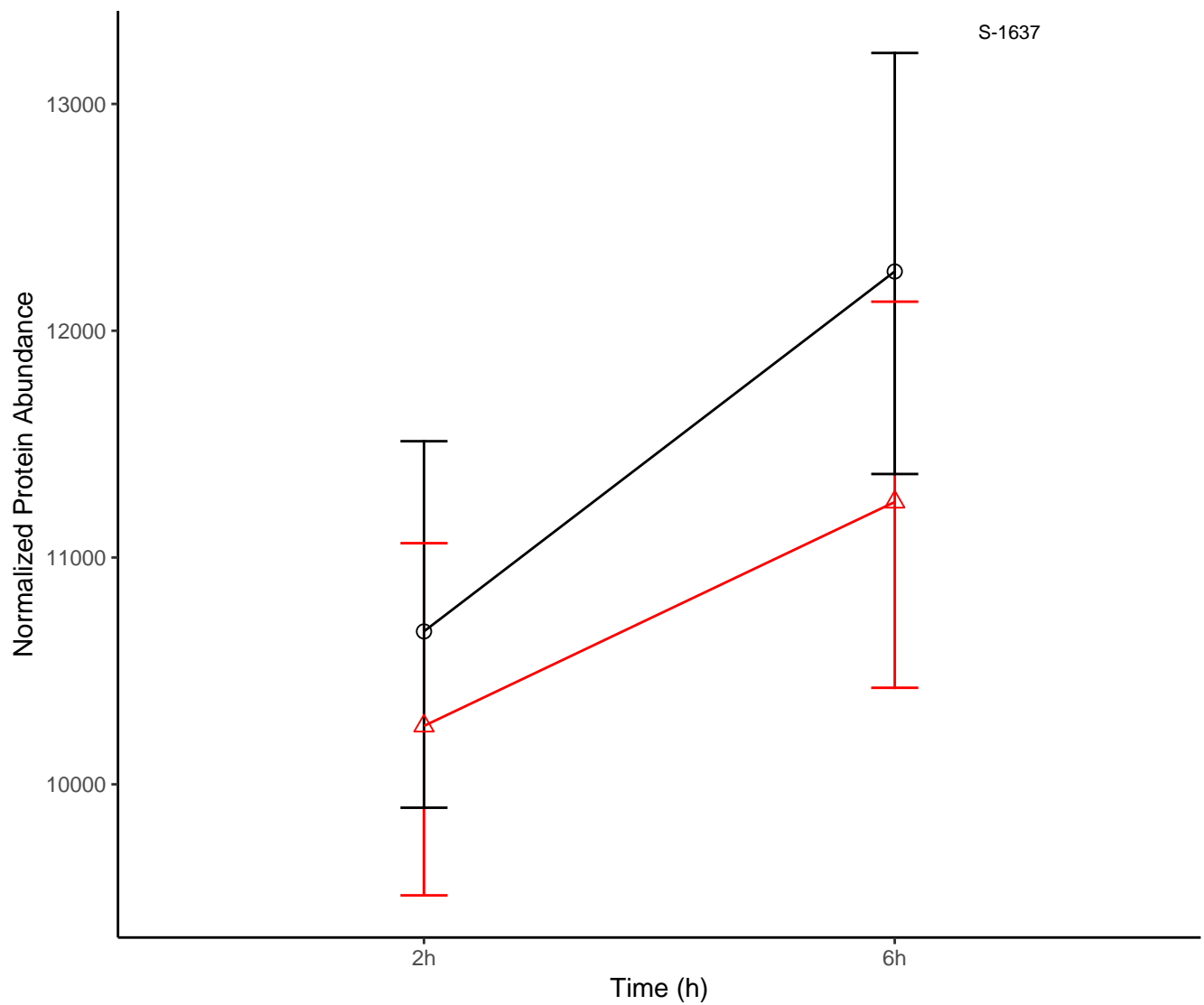


○ TSB-dex

△ TSB

# GCSPA\_STAAM

S-1637

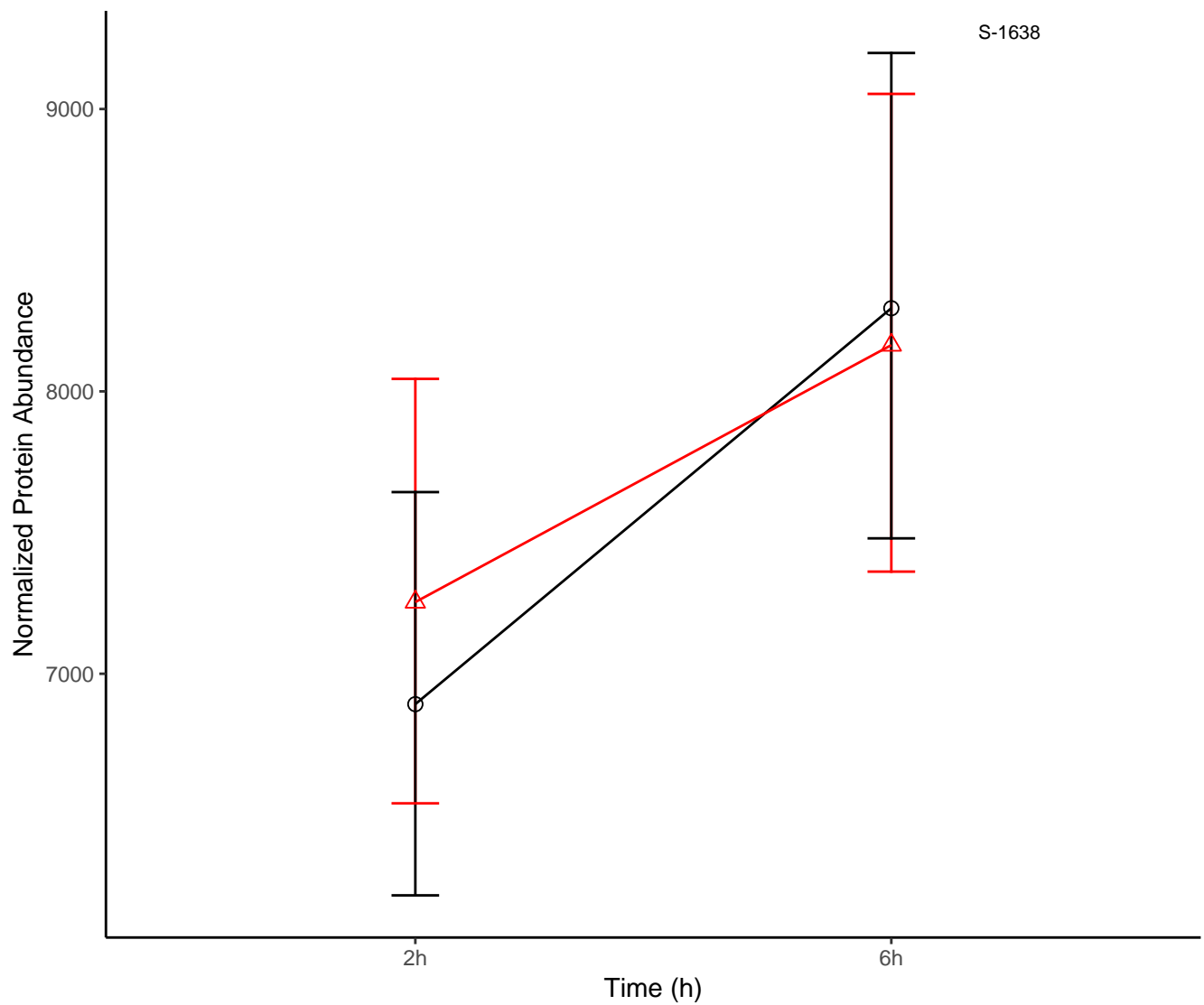


○ TSB-dex

△ TSB

# GCSPB\_STAAM

S-1638

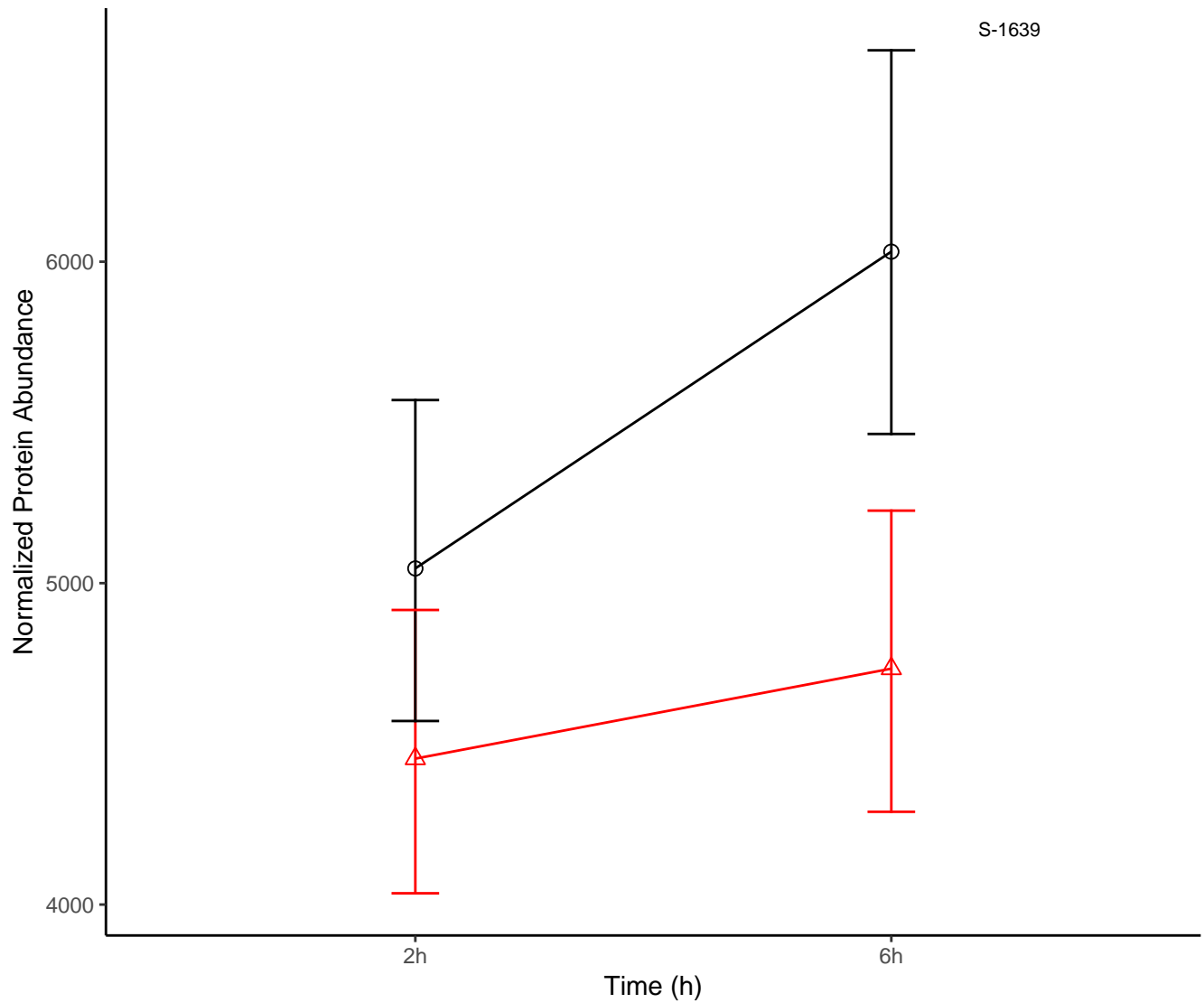


○ TSB-dex

△ TSB

# GCST\_STAAM

S-1639

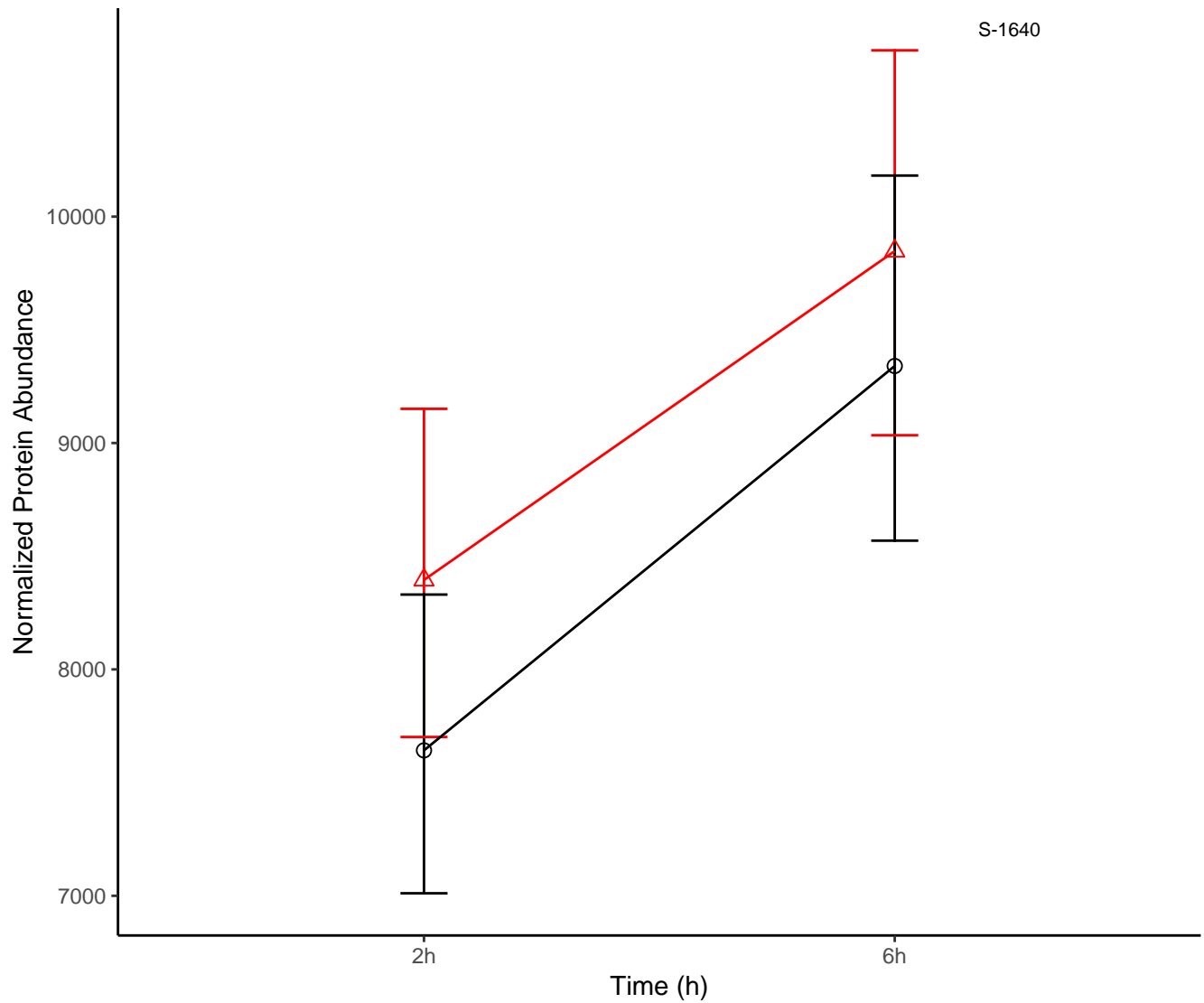


○ TSB-dex

△ TSB

# GLMM\_STAAM

S-1640



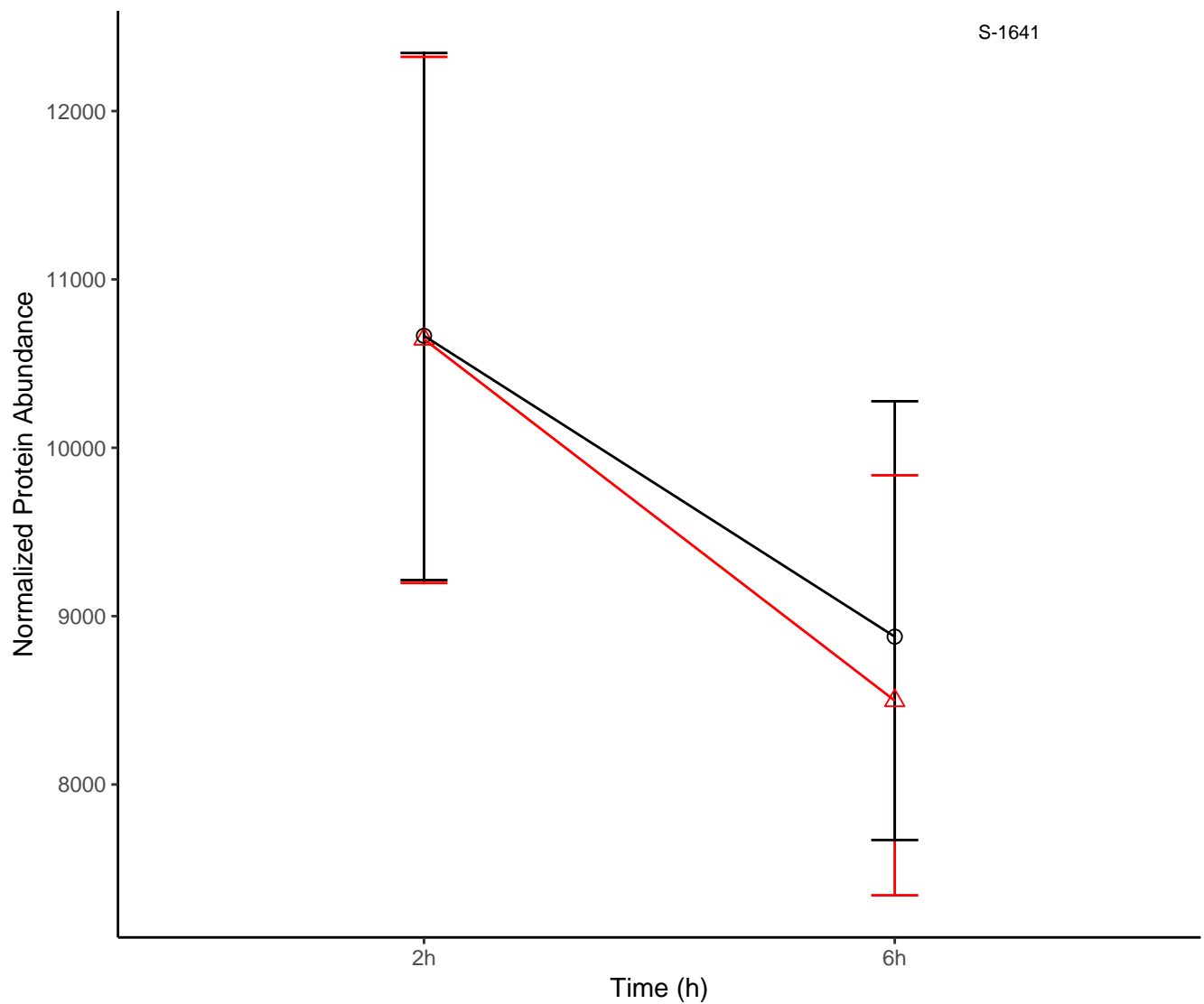
○ TSB-dex

△ TSB



# GLMS\_STAAM

S-1641

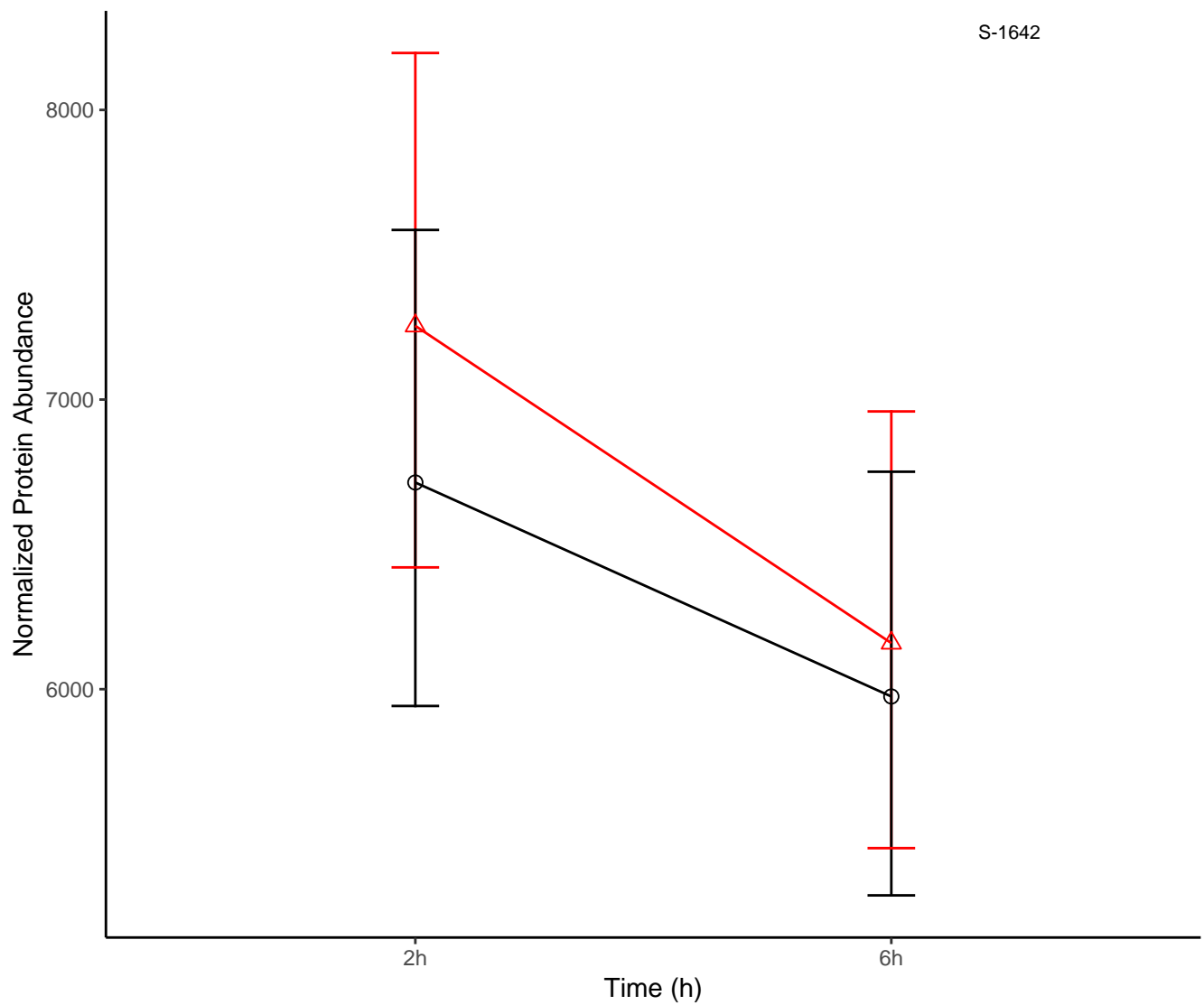


○ TSB-dex

△ TSB

# GLMU\_STAAM

S-1642

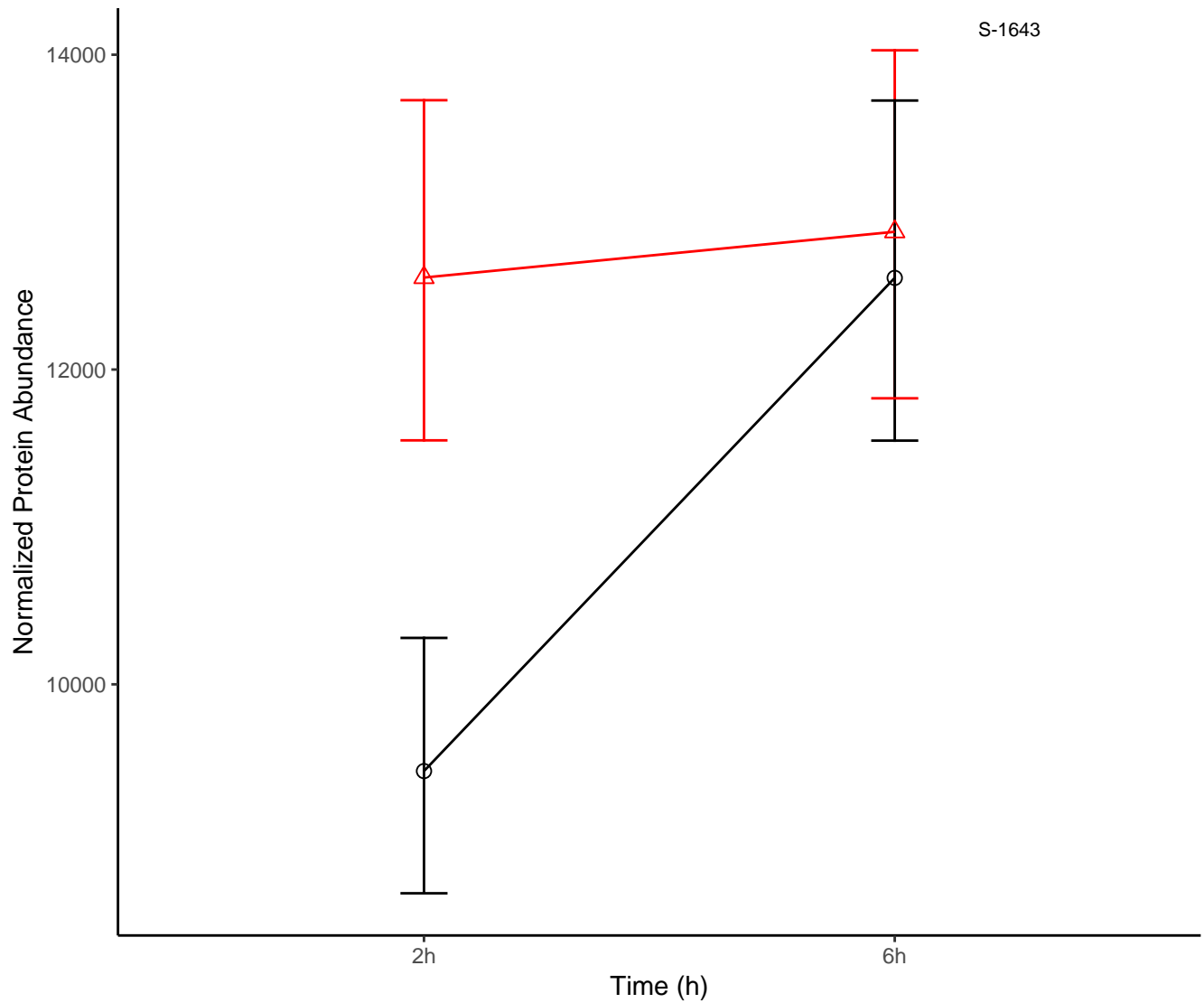


○ TSB-dex

△ TSB

# GLNA\_STAAM

S-1643

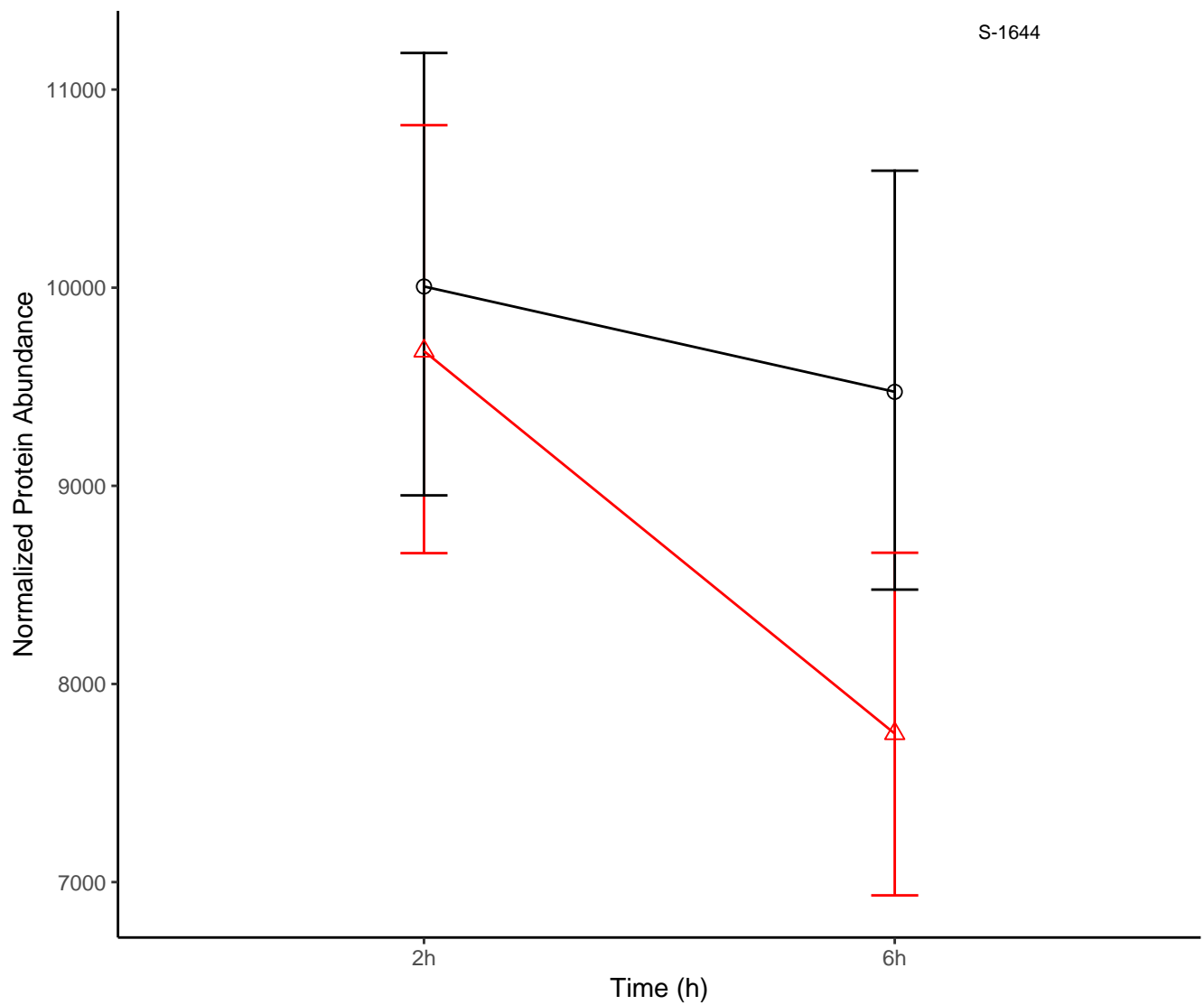


○ TSB-dex

△ TSB

# GLPD\_STAAM

S-1644

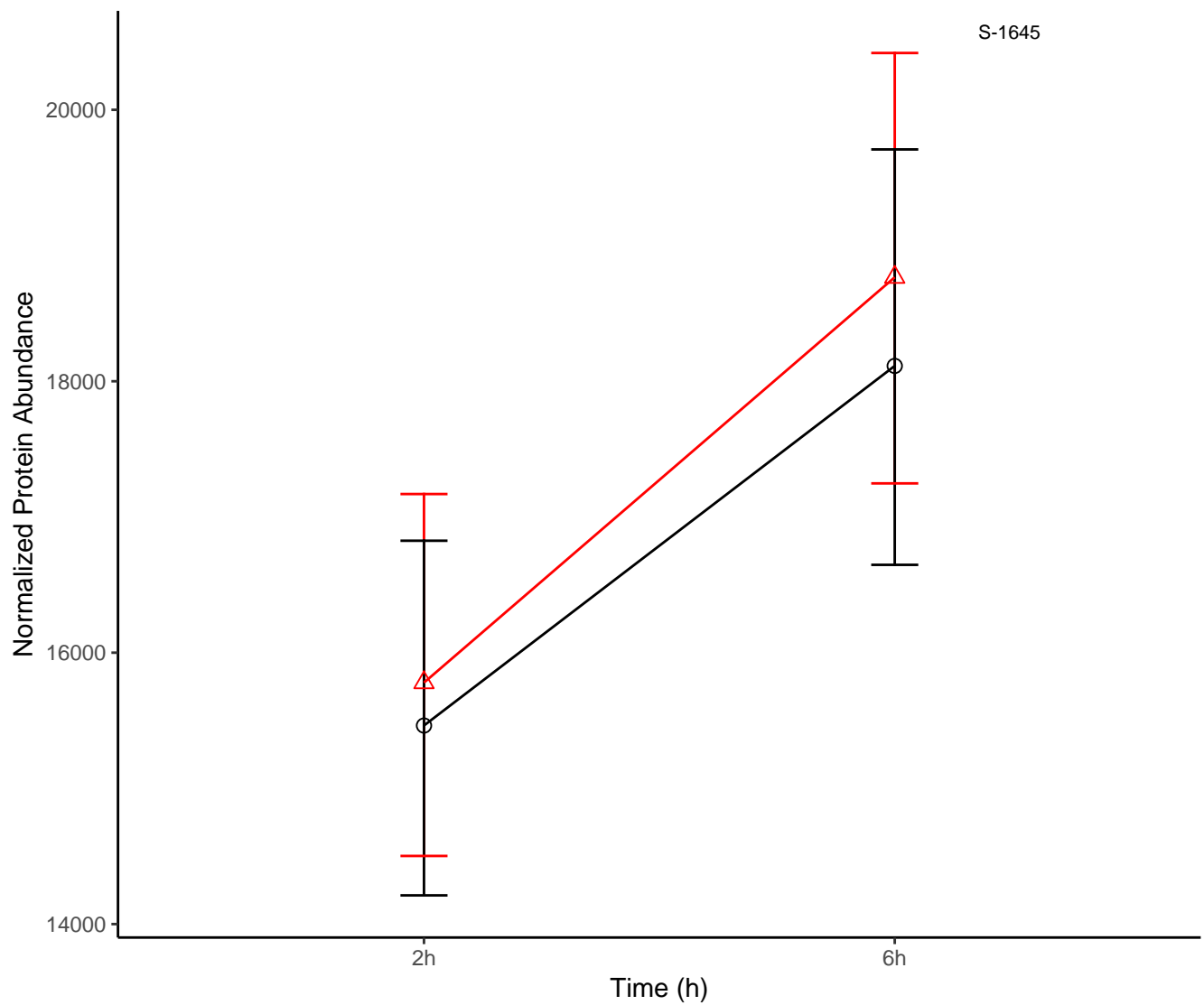


○ TSB-dex

△ TSB

# GLPK\_STAAM

S-1645

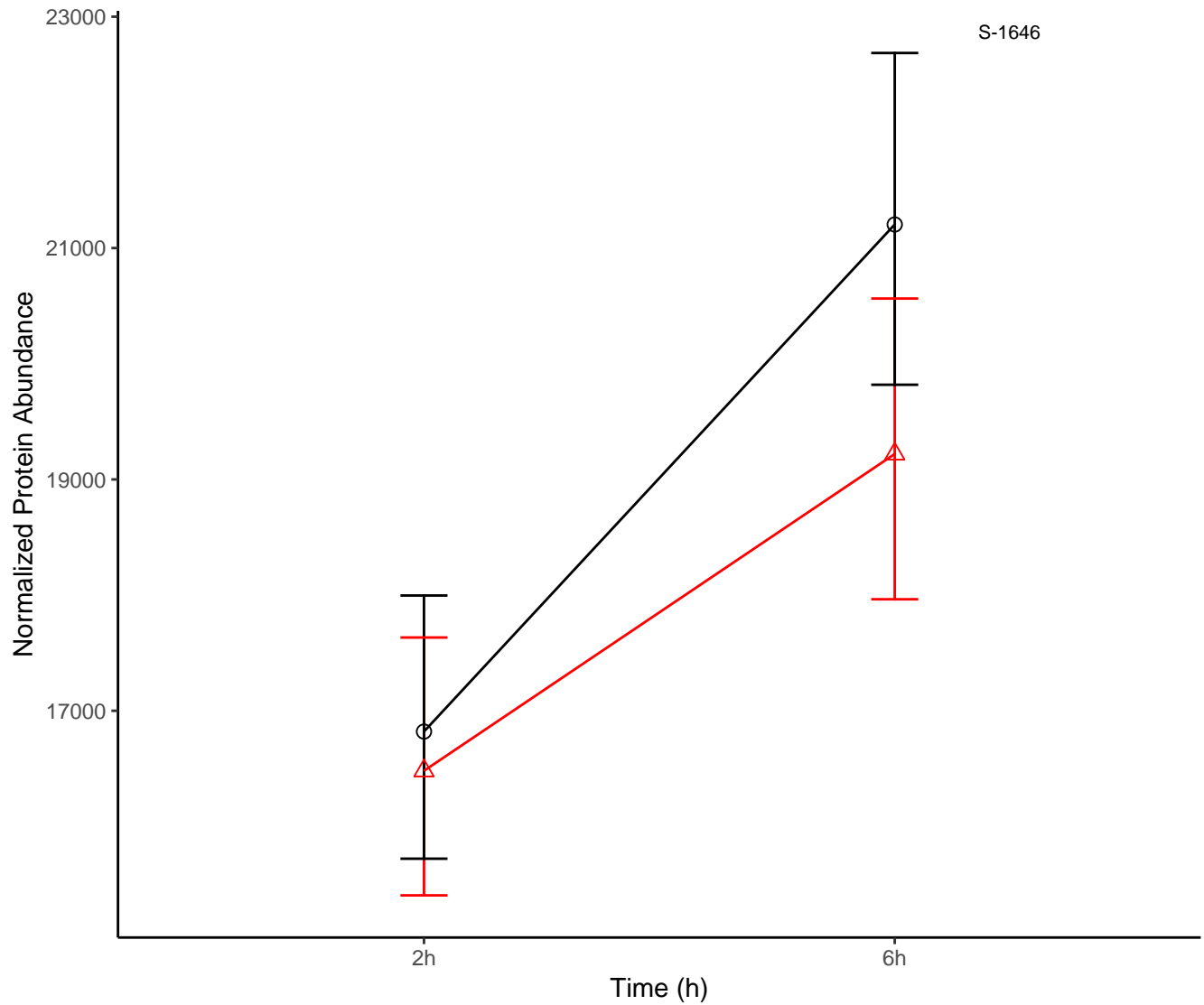


○ TSB-dex

△ TSB

# GLYA\_STAAM

S-1646



○ TSB-dex

△ TSB

# GPDA\_STAAM

S-1647

Normalized Protein Abundance

3000

2000

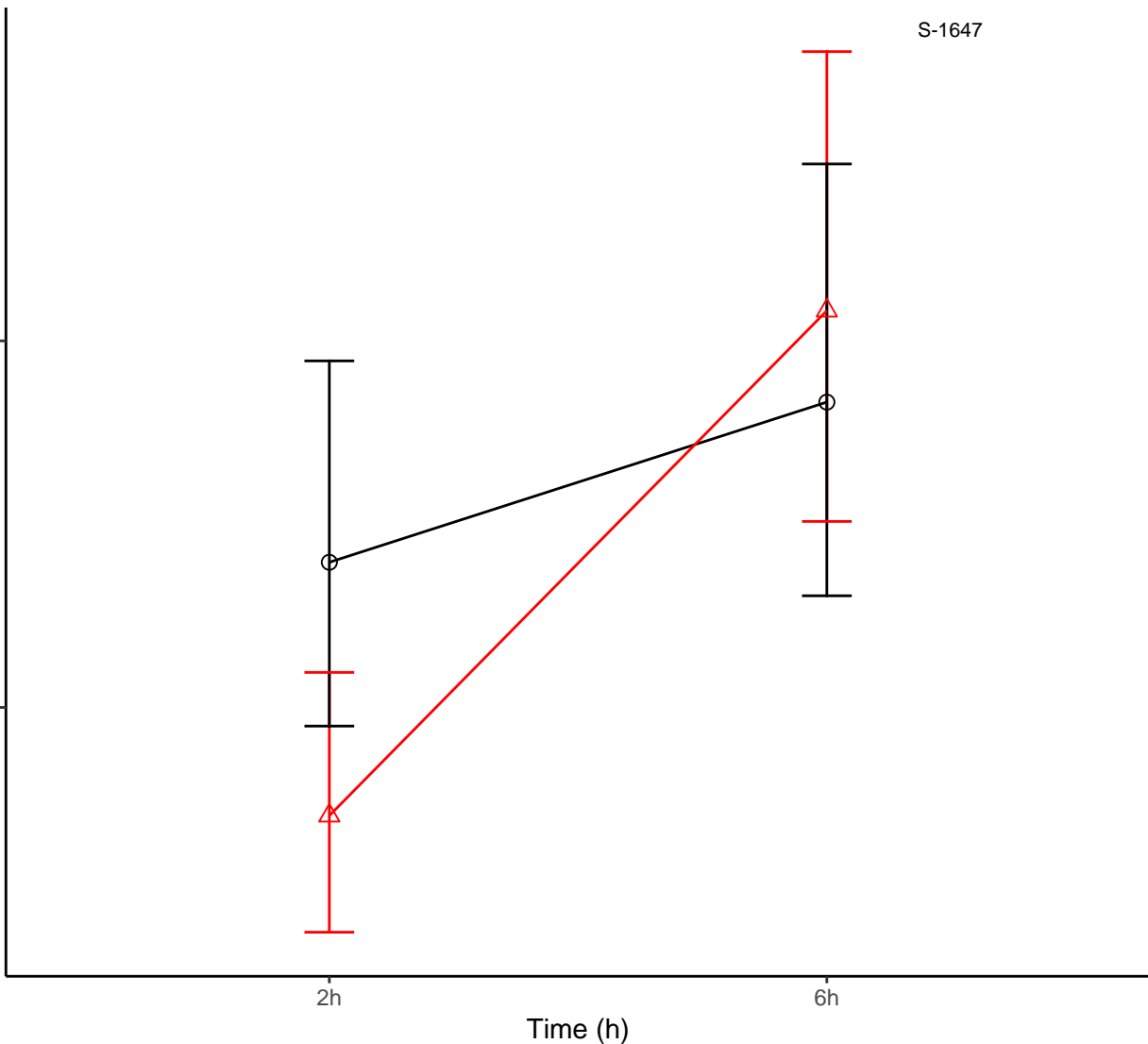
2h

6h

Time (h)

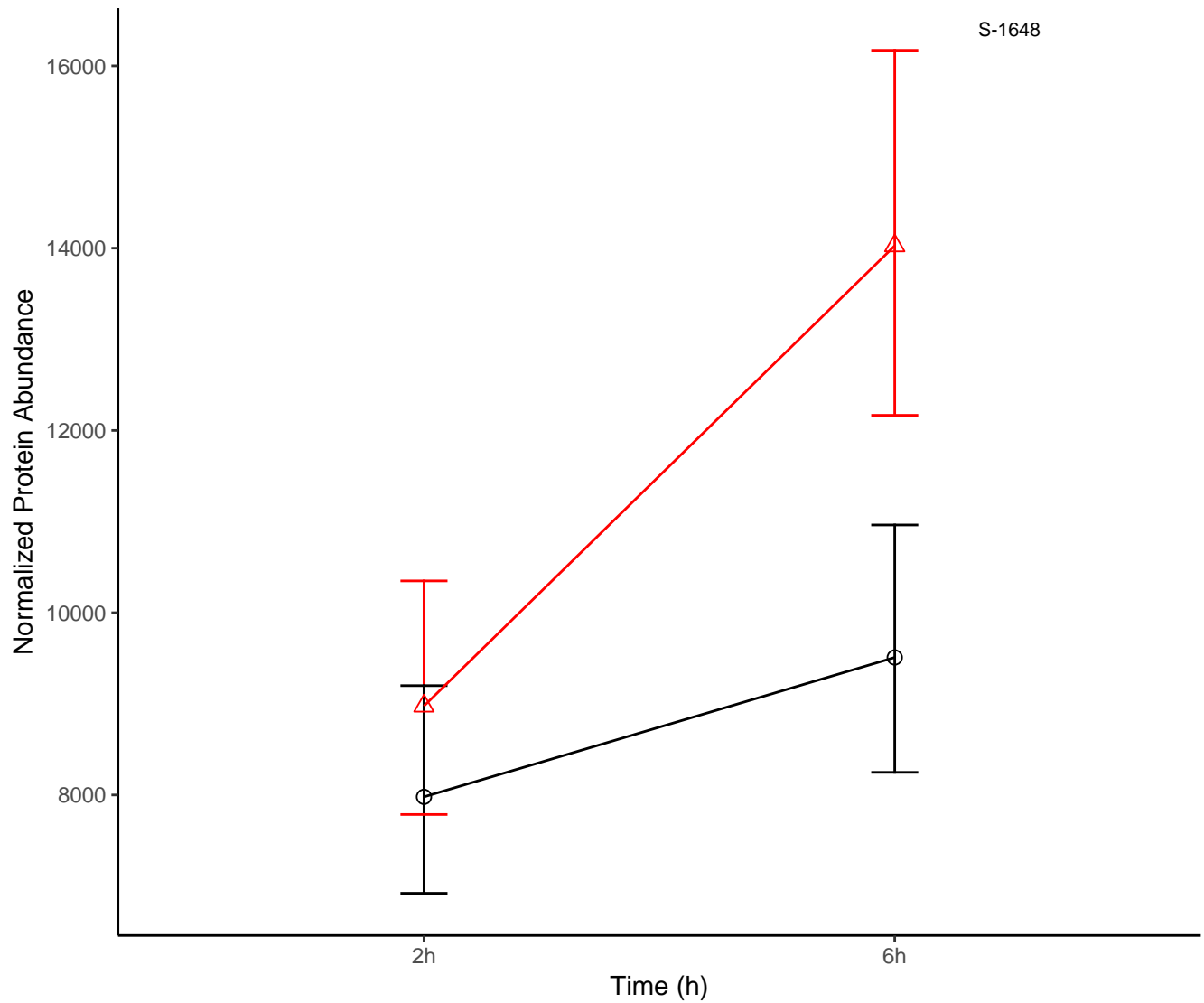
○ TSB-dex

△ TSB



# GPMA\_STAAM

S-1648



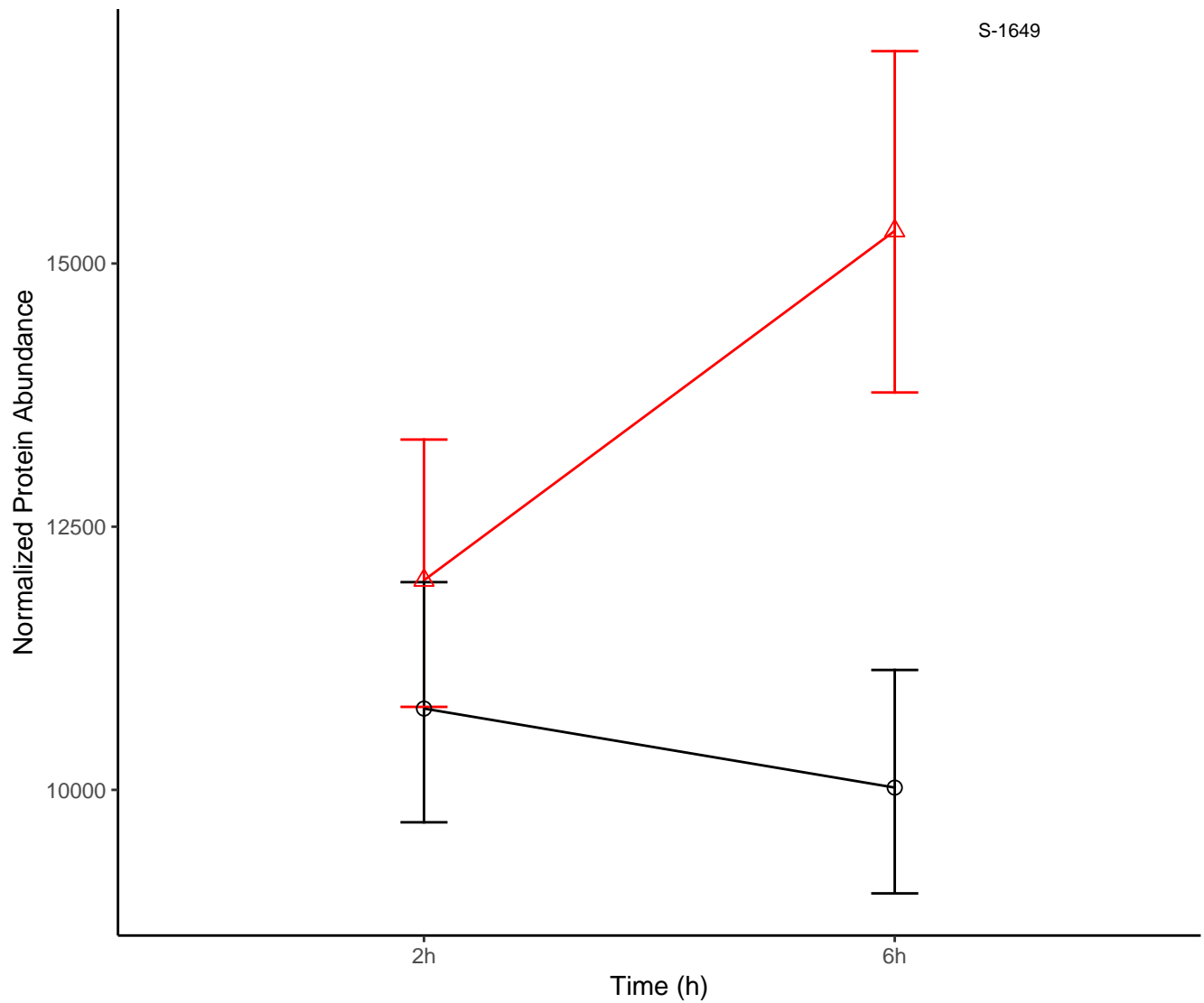
○ TSB-dex

△ TSB



# GPMI\_STAAM

S-1649

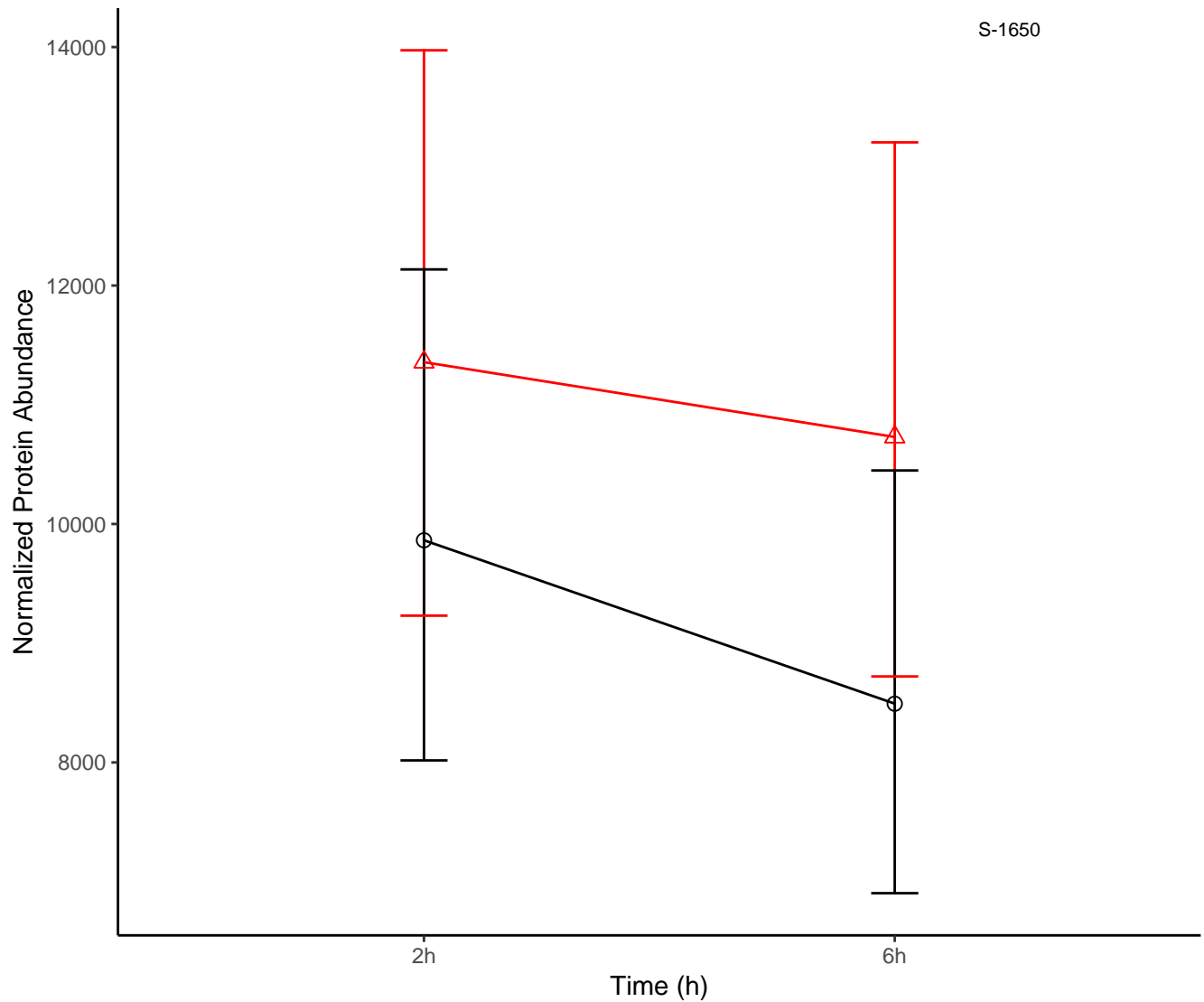


○ TSB-dex

△ TSB

# GPSB\_STAAM

S-1650

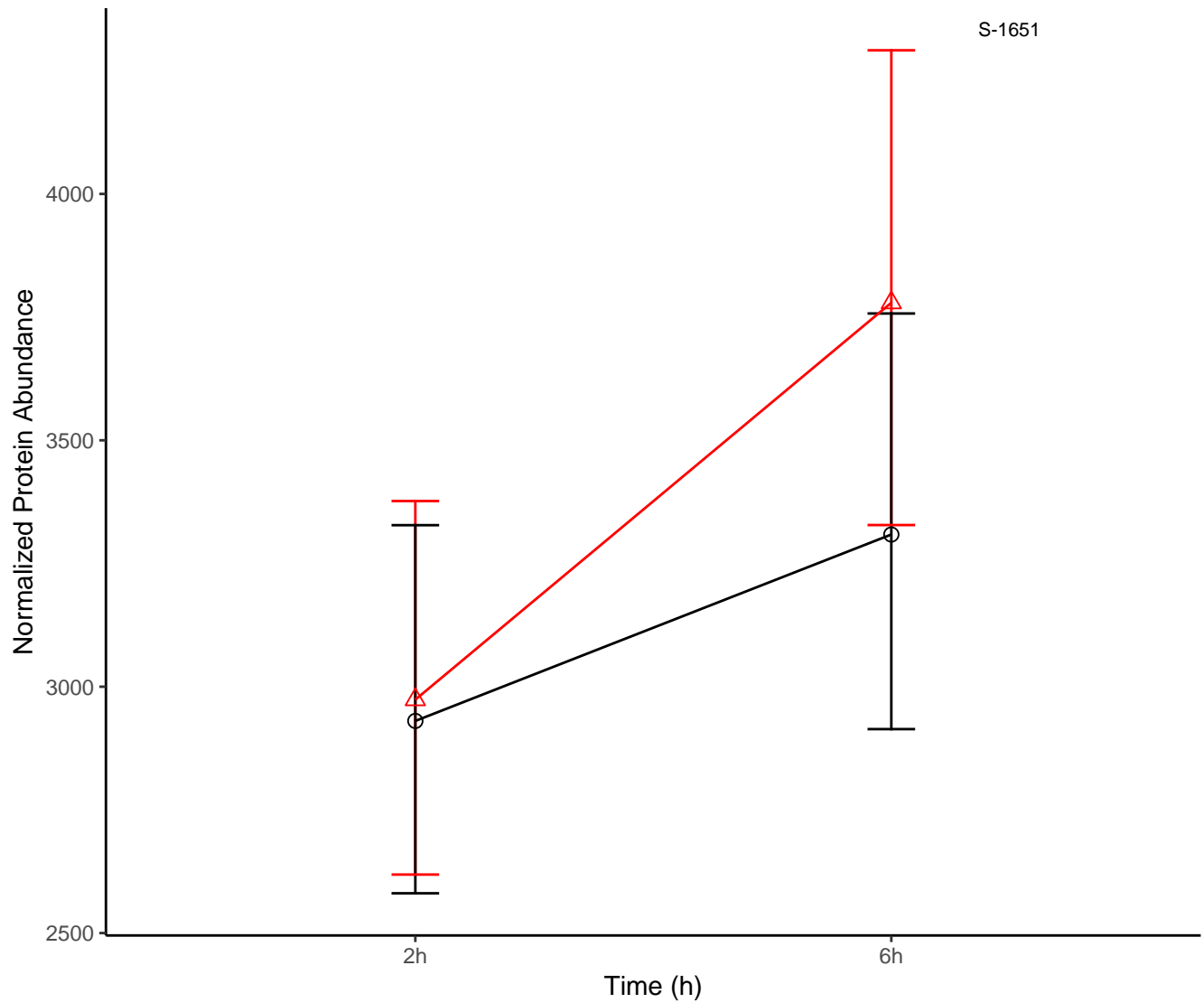


○ TSB-dex

△ TSB

# GRAR\_STAAM

S-1651

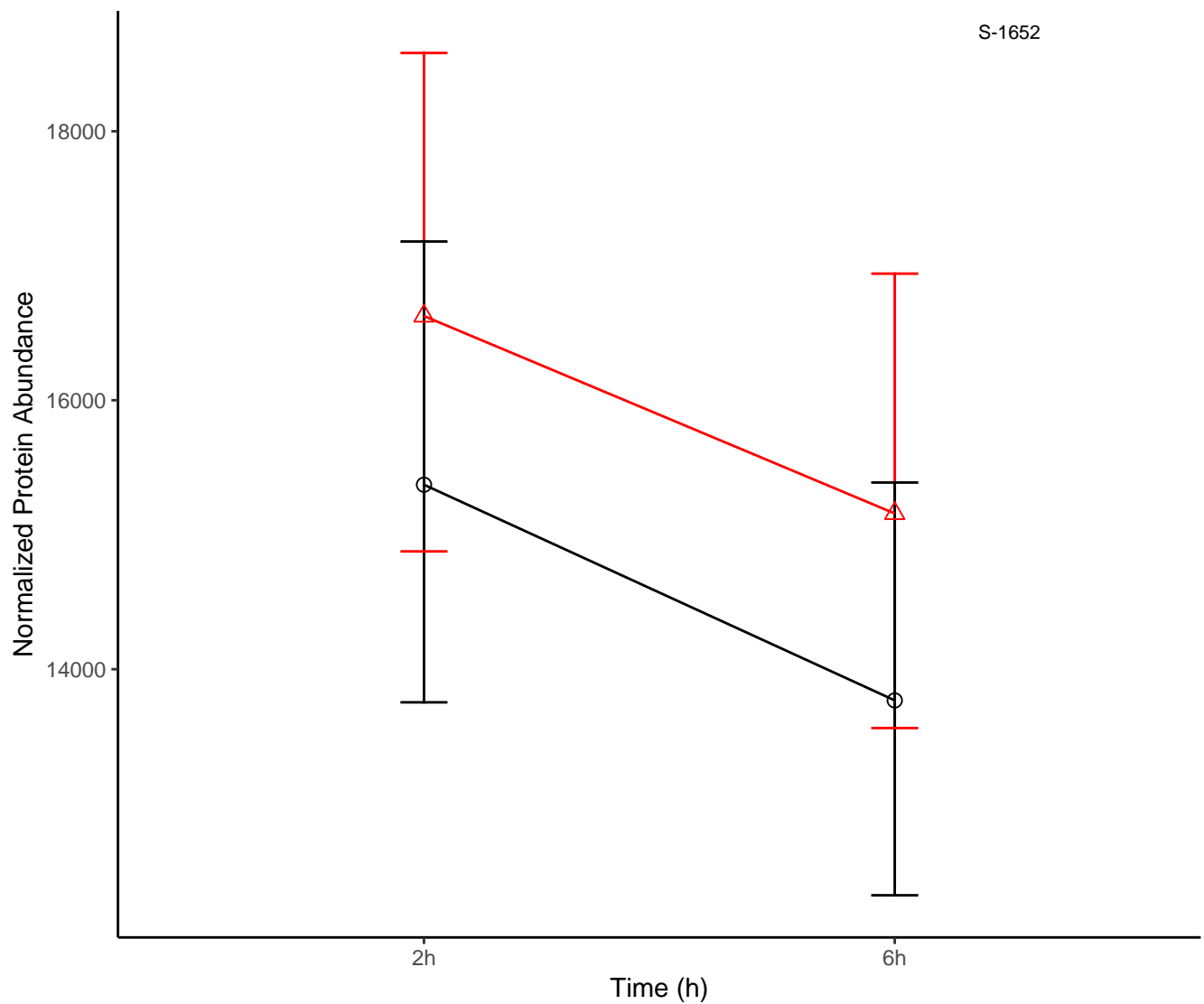


○ TSB-dex

△ TSB

# GREASTAAM

S-1652

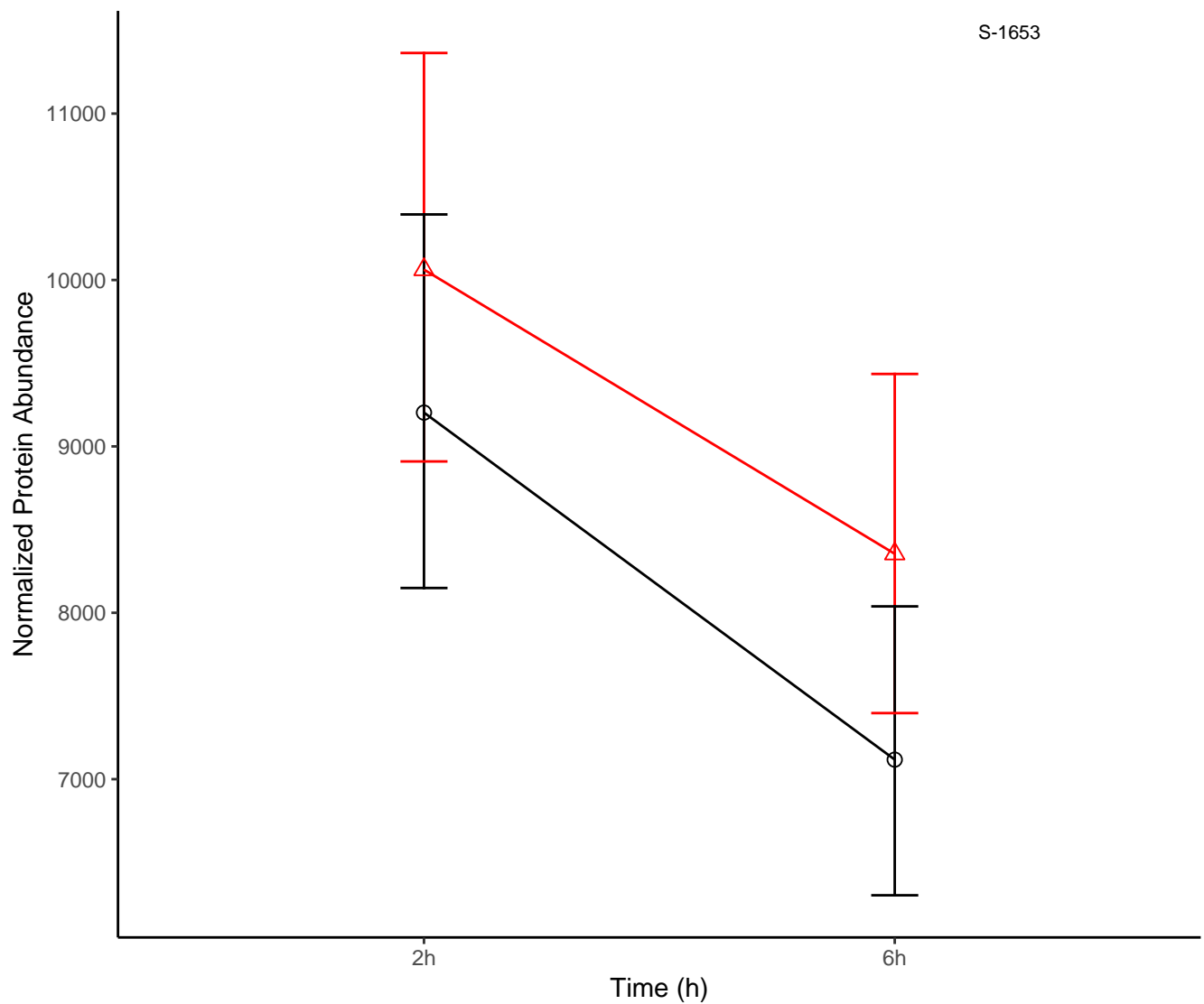


○ TSB-dex

△ TSB

# GRPE\_STAAM

S-1653

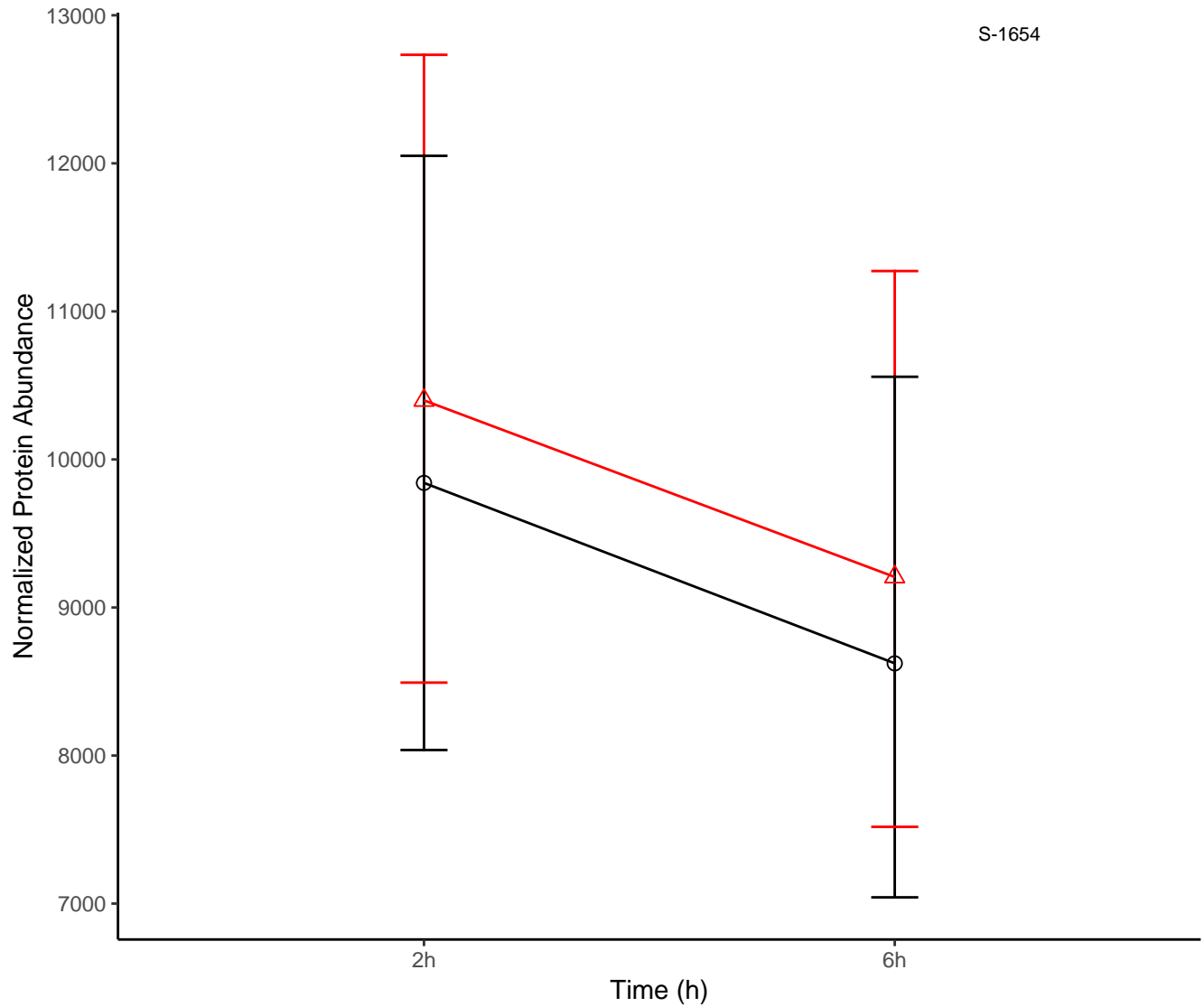


○ TSB-dex

△ TSB

# GSA1\_STAAM

S-1654

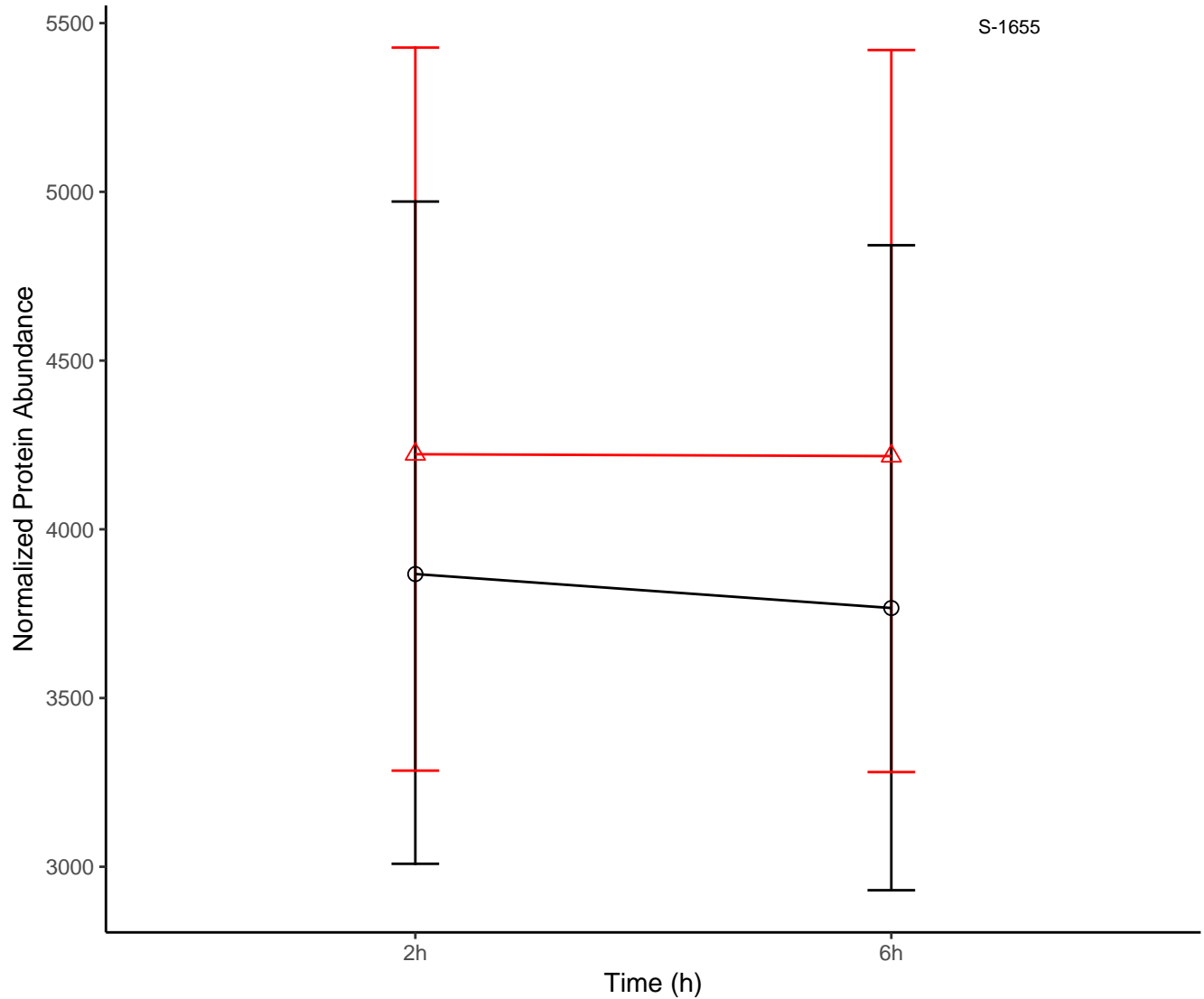


○ TSB-dex

△ TSB

# GSA2\_STAAM

S-1655

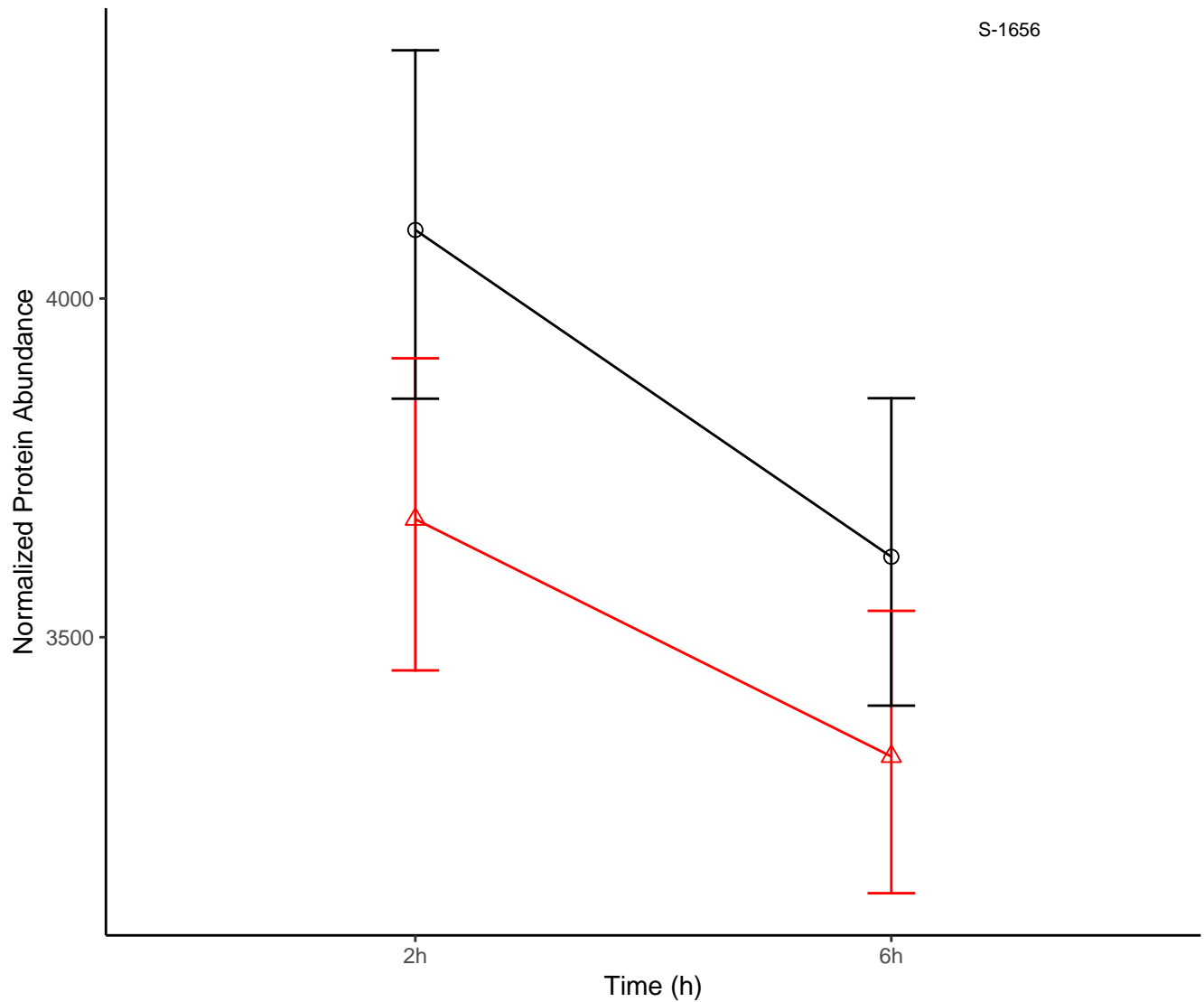


○ TSB-dex

△ TSB

# GTAB\_STAAM

S-1656



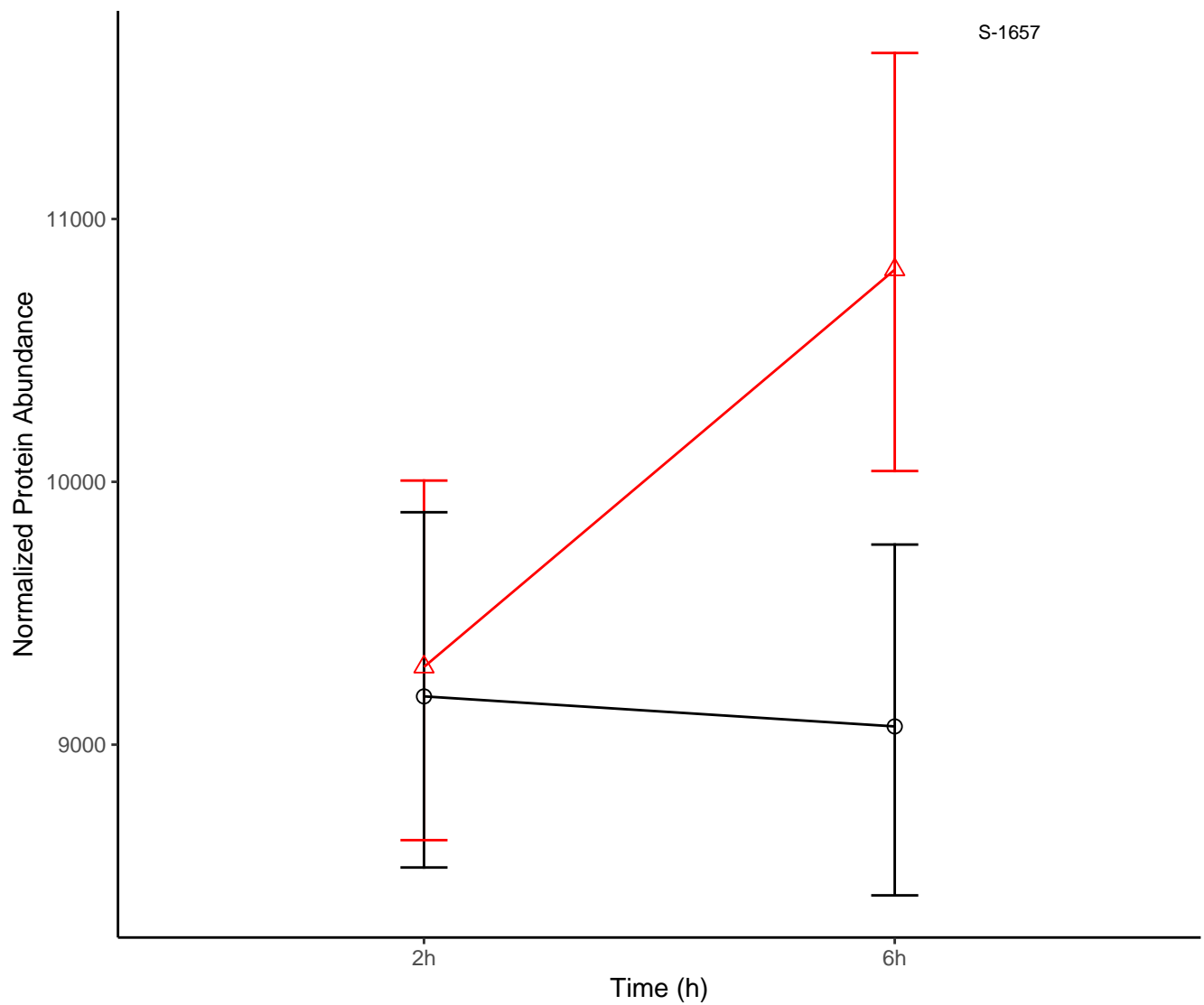
○ TSB-dex

△ TSB



# GUAA\_STAAM

S-1657

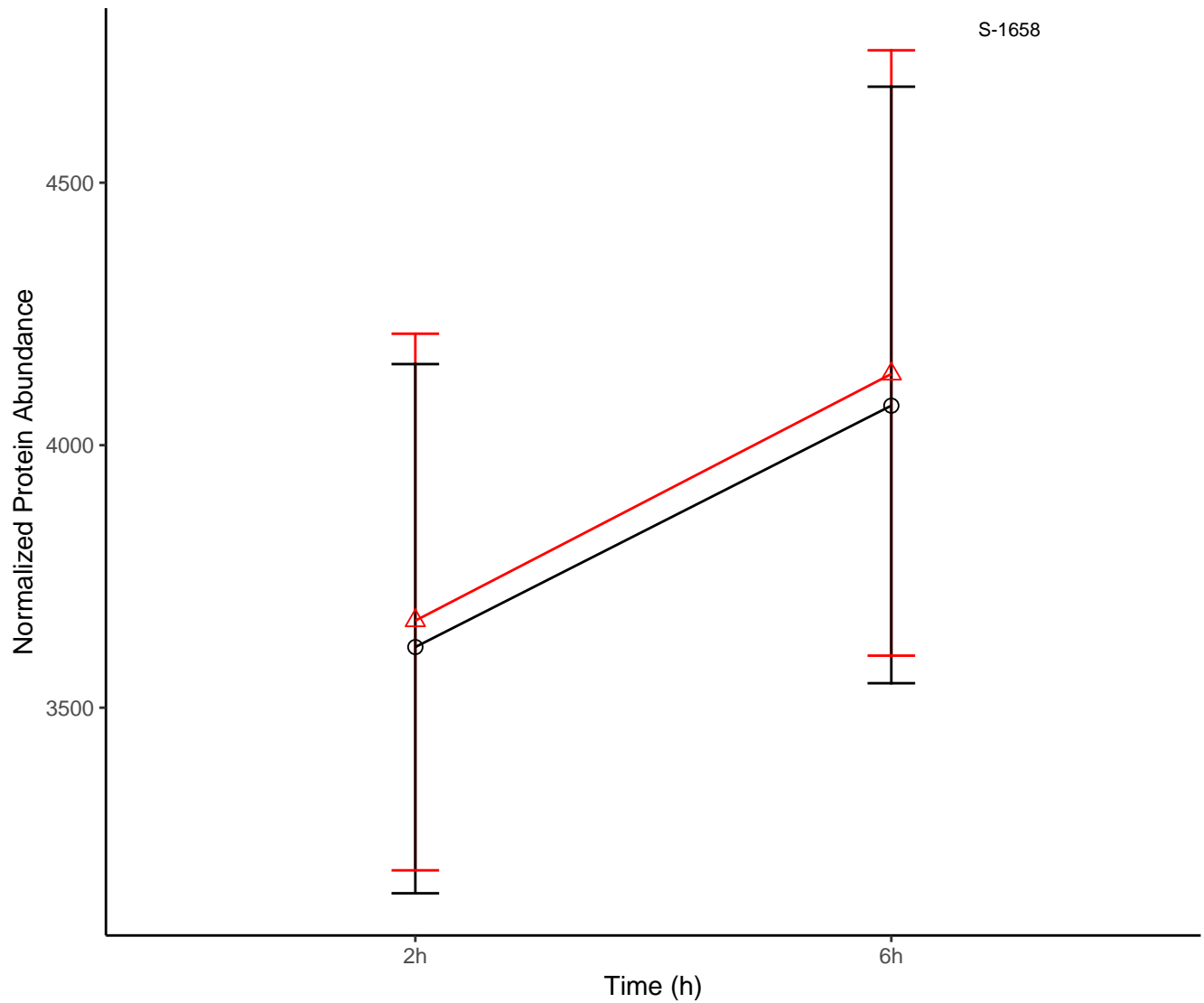


○ TSB-dex

△ TSB

# GUAC\_STAAM

S-1658

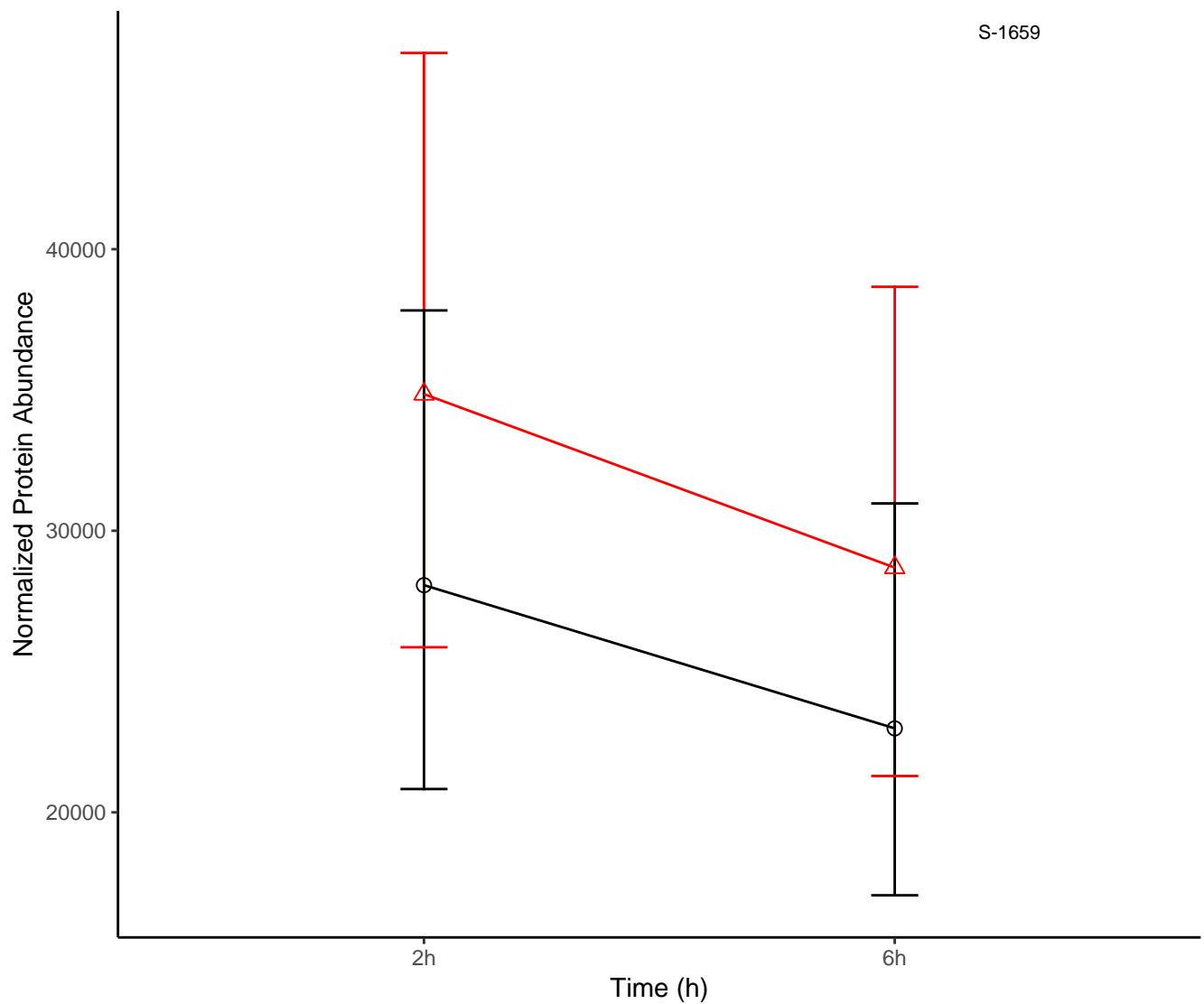


○ TSB-dex

△ TSB

# GYRB\_STAAM

S-1659

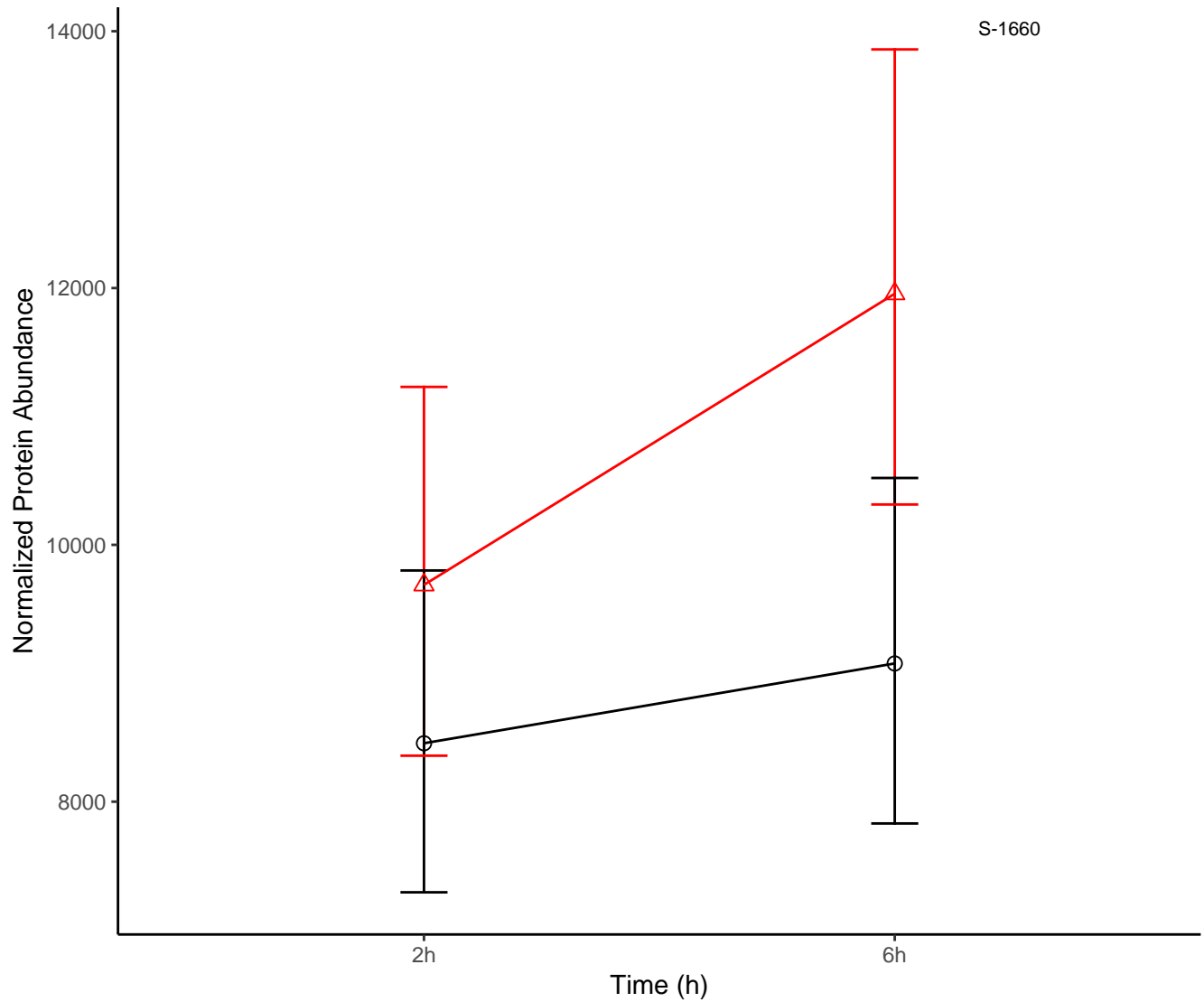


○ TSB-dex

△ TSB

# HCHA\_STAAM

S-1660

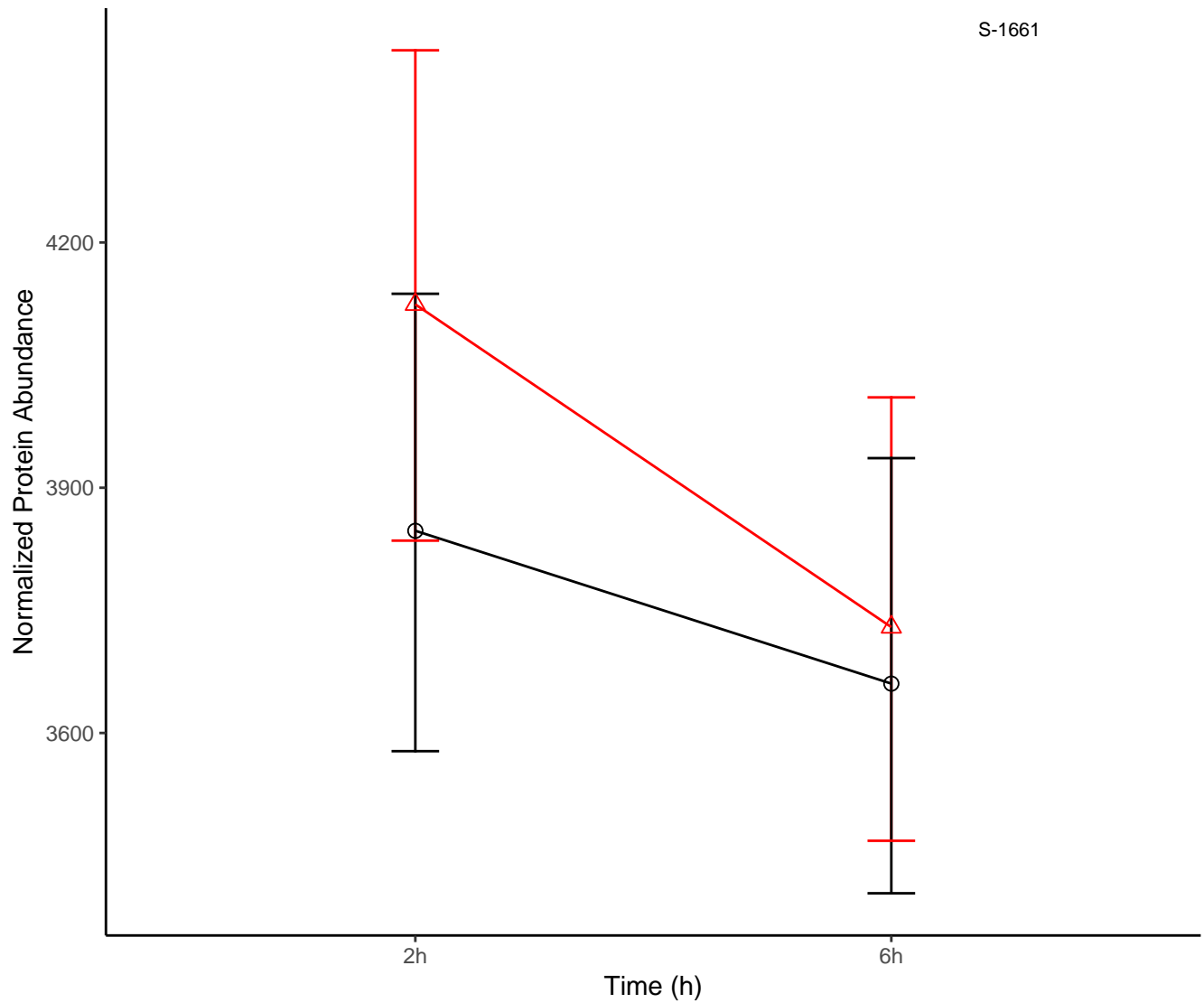


○ TSB-dex

△ TSB

# HEM2\_STAAM

S-1661

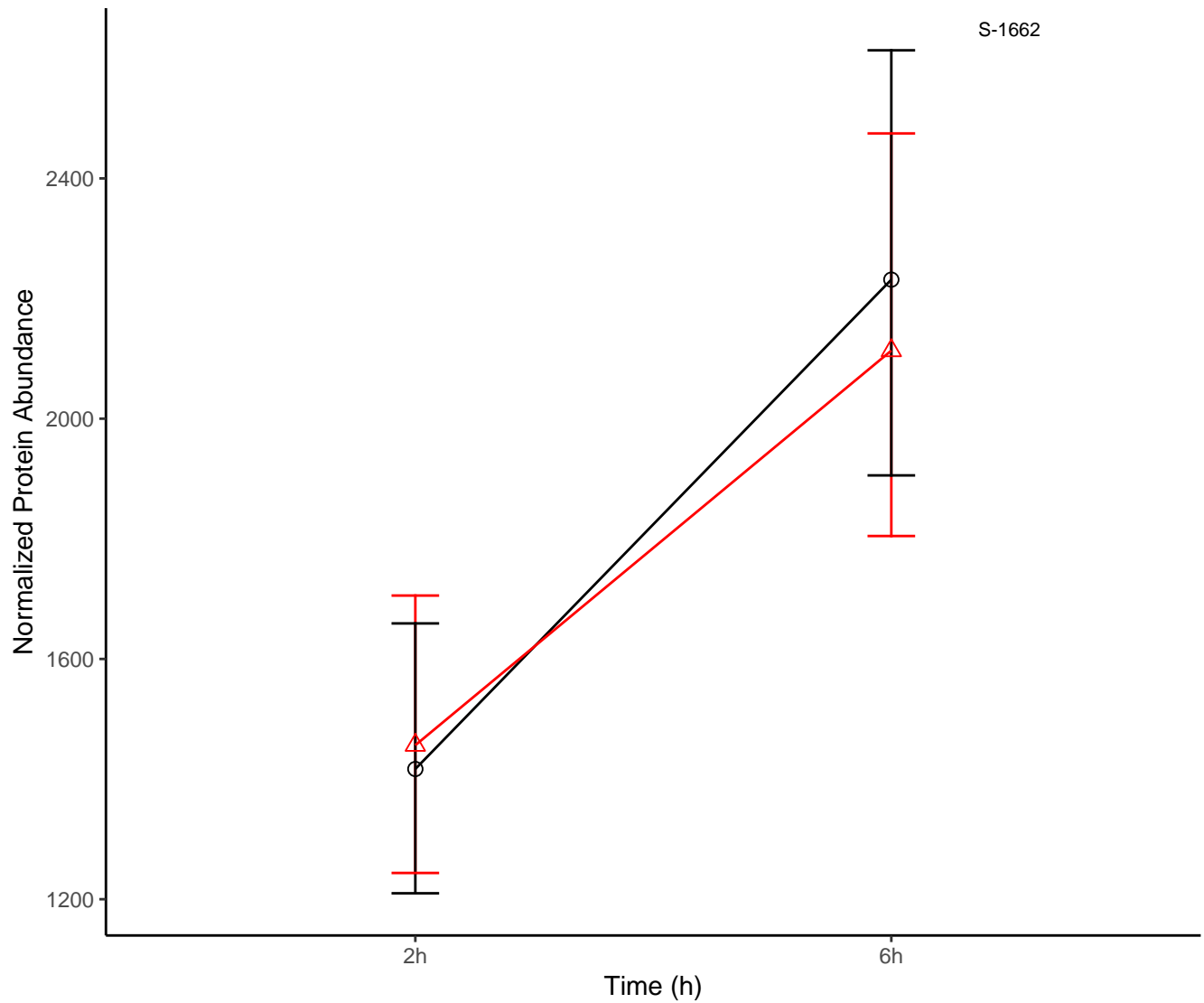


○ TSB-dex

△ TSB

# HEM3\_STAAM

S-1662

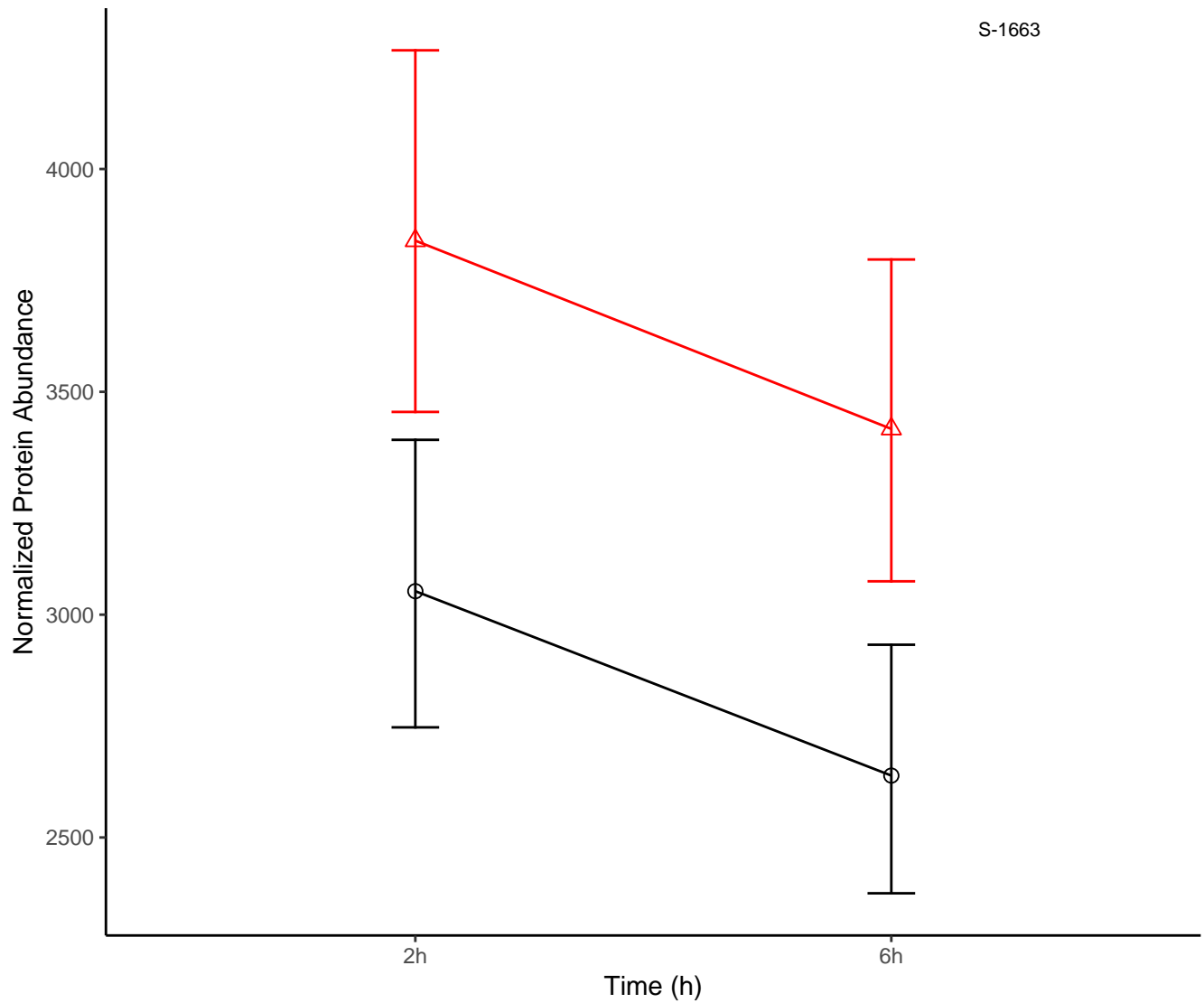


○ TSB-dex

△ TSB

# HLD\_STAAM

S-1663

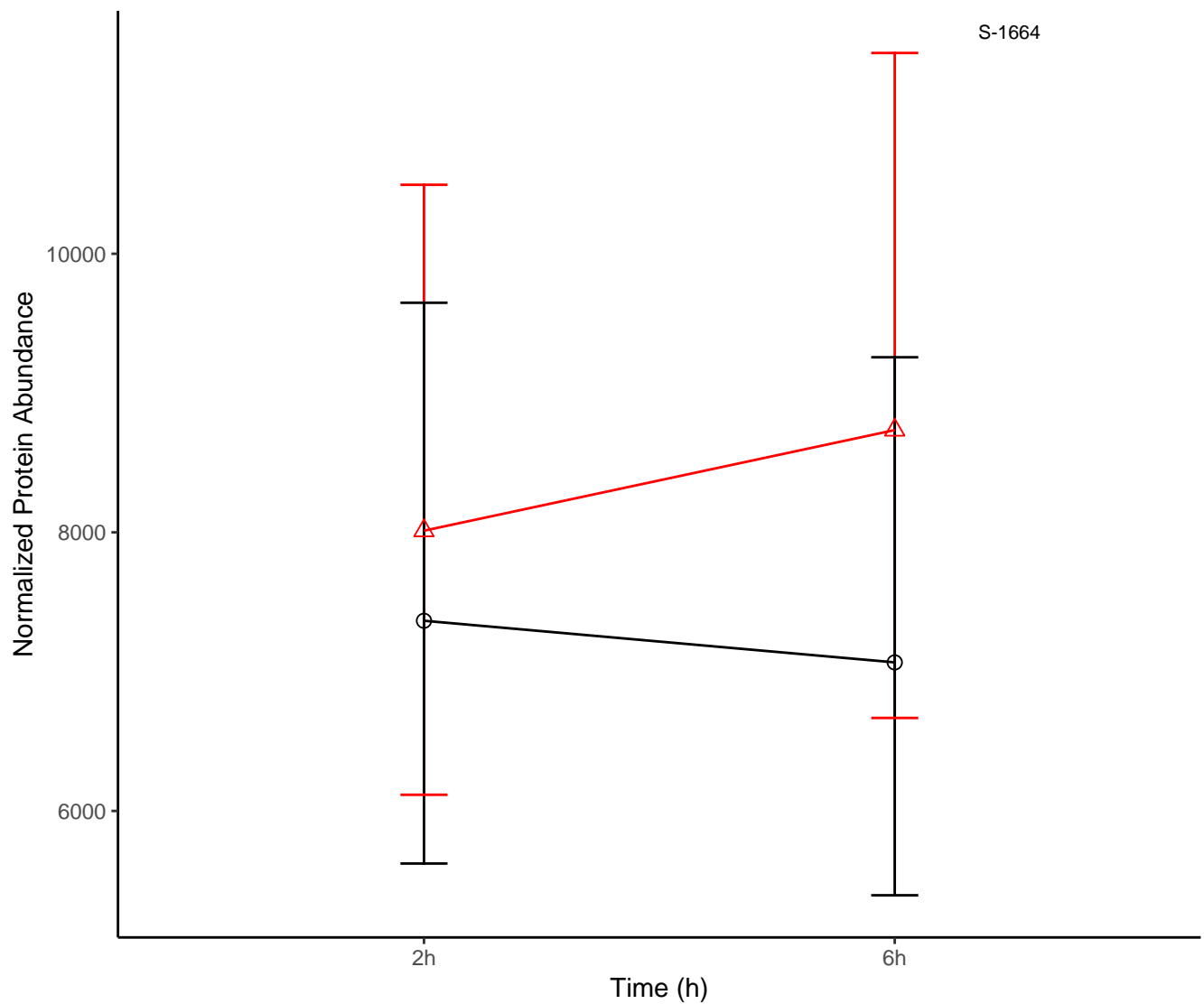


○ TSB-dex

△ TSB

# HPRK\_STAAM

S-1664



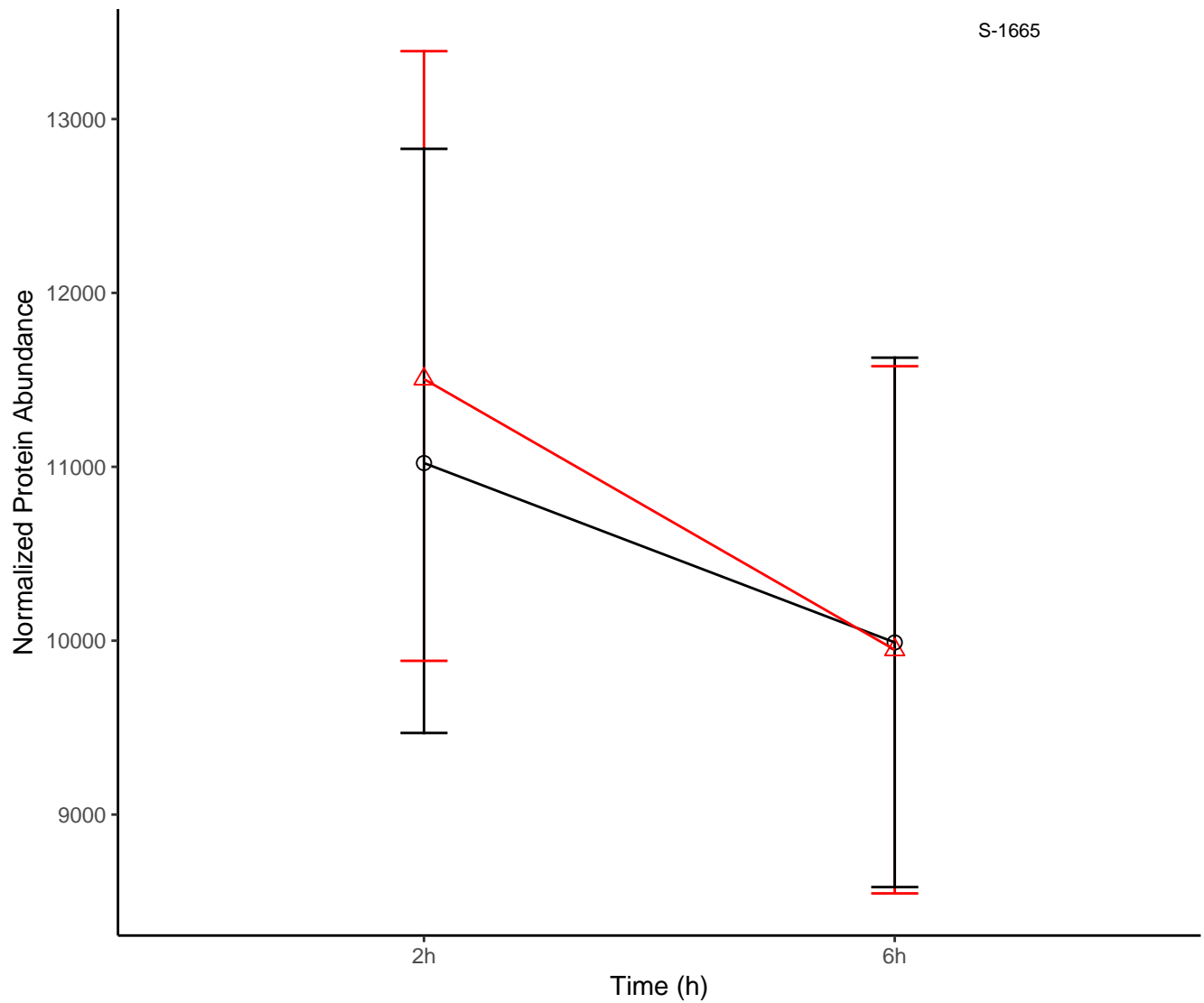
○ TSB-dex

△ TSB



# HPRT\_STAAM

S-1665

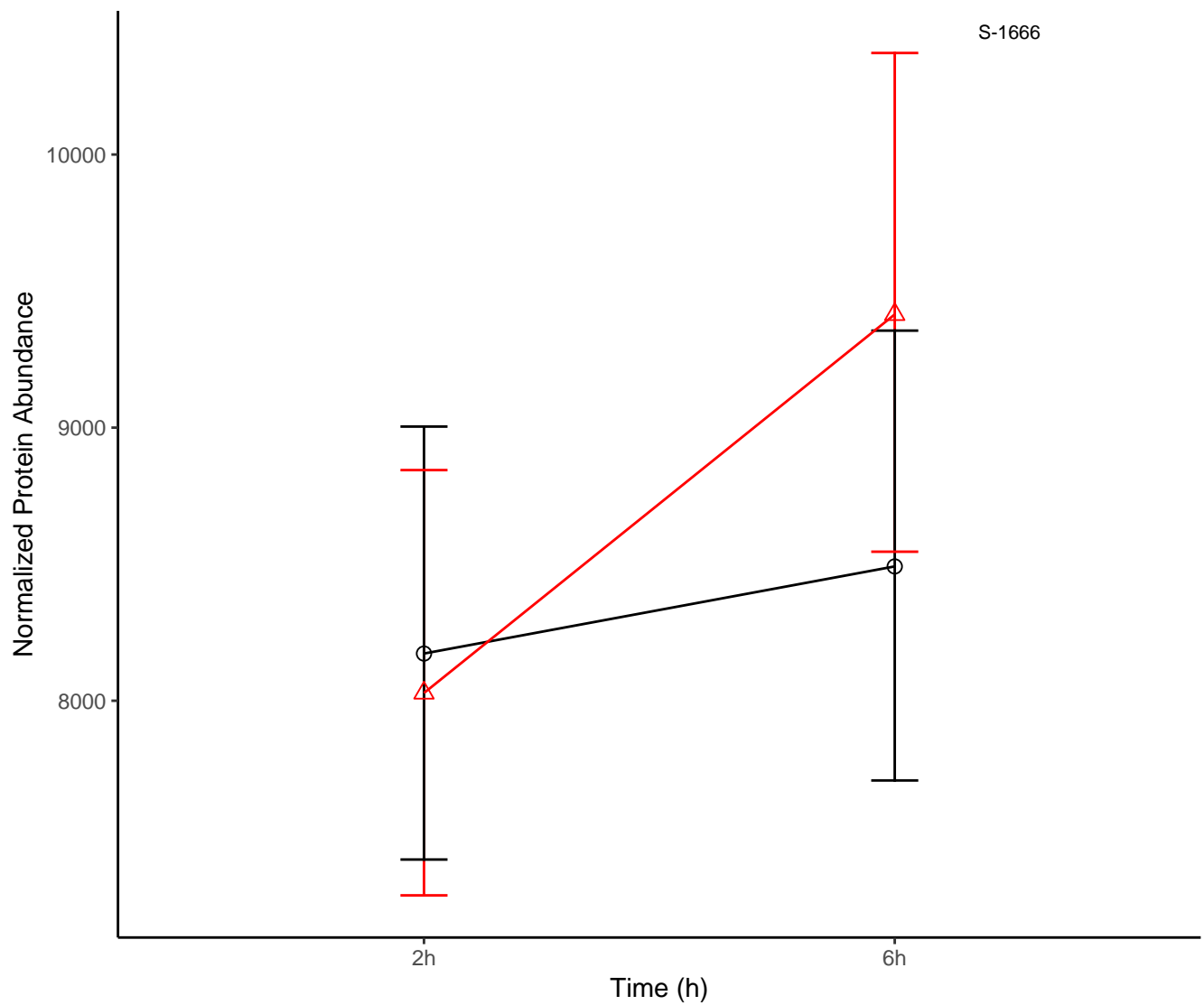


○ TSB-dex

△ TSB

# HPS\_STAAM

S-1666

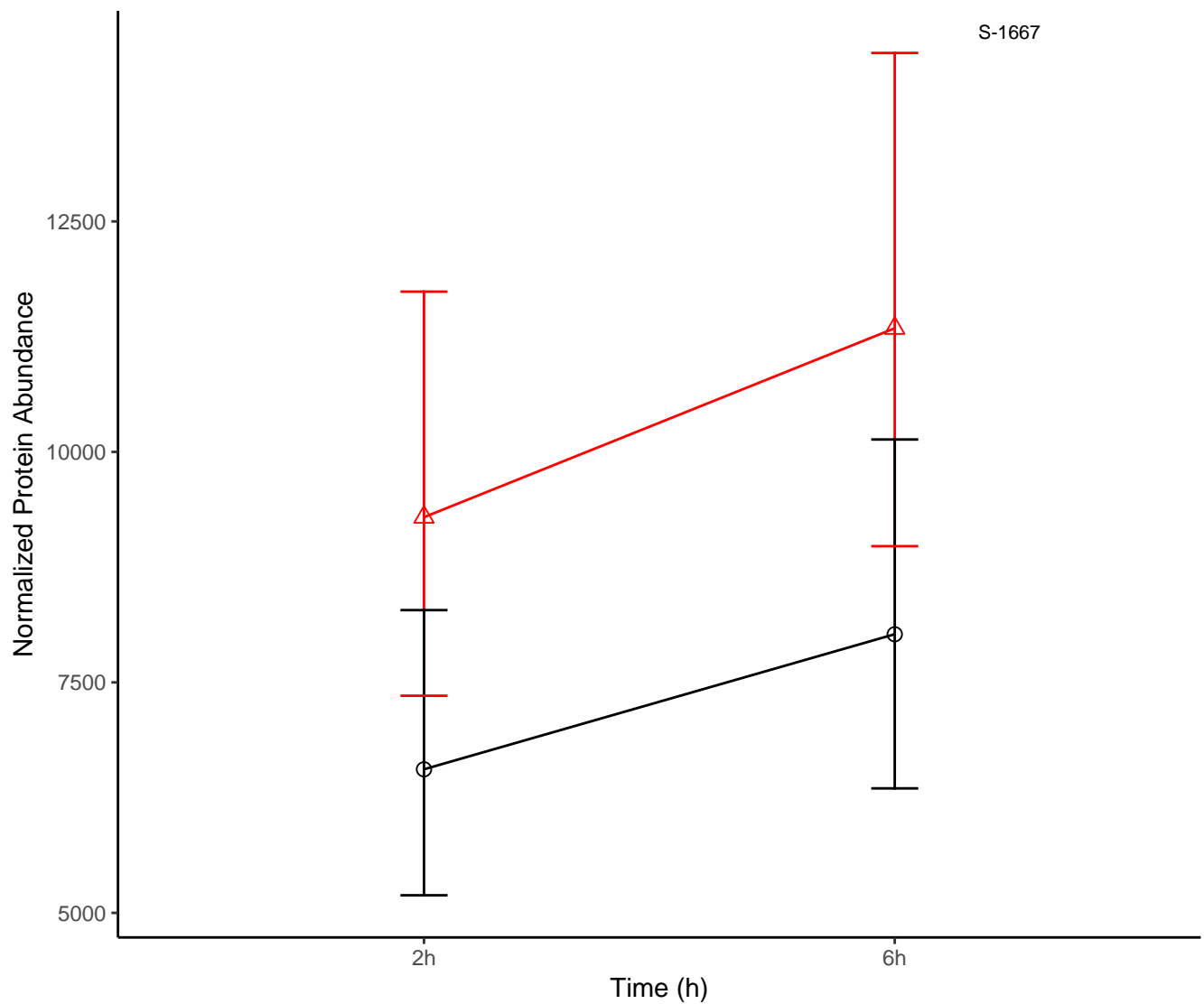


○ TSB-dex

△ TSB

# HRTA\_STAAM

S-1667

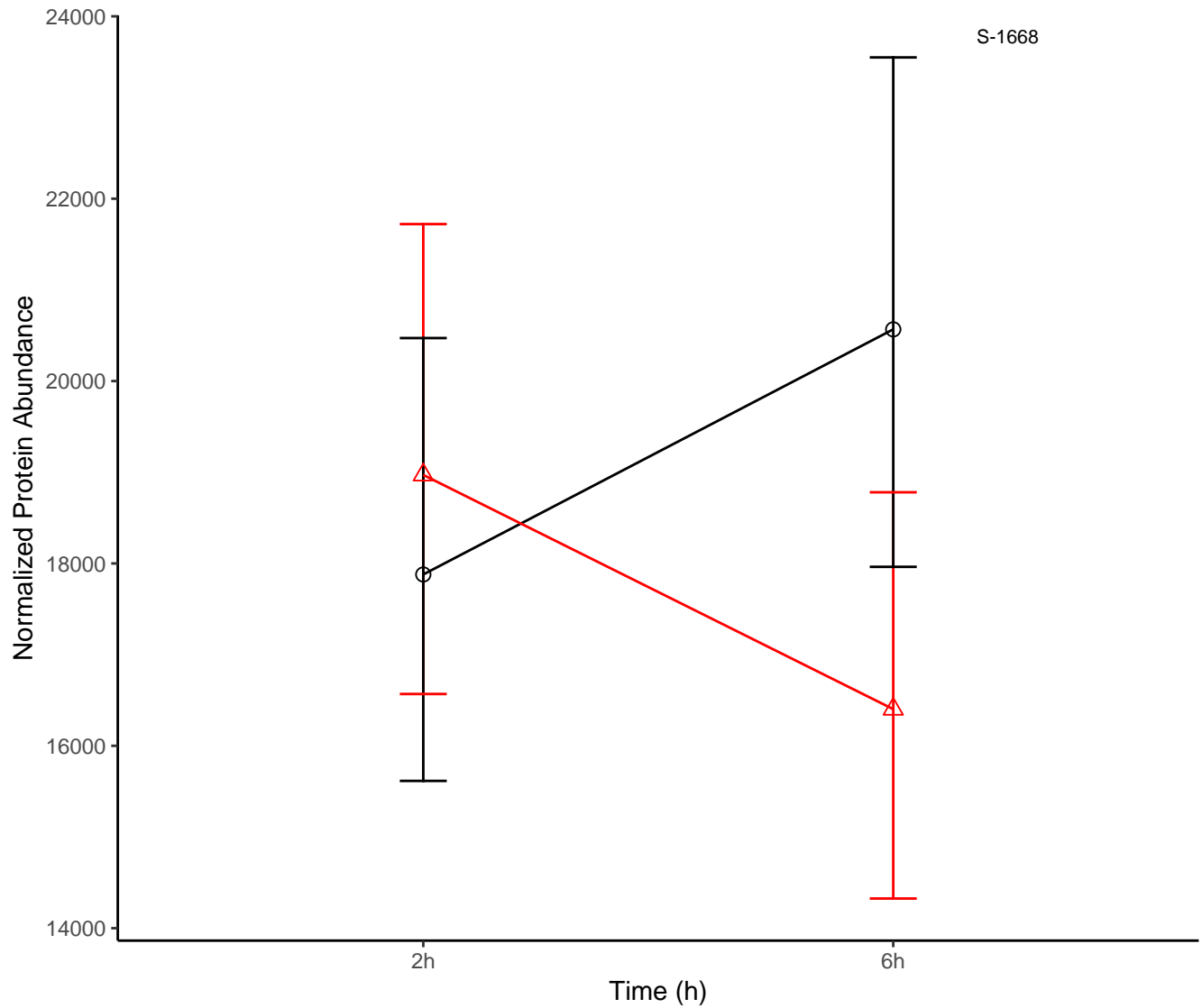


○ TSB-dex

△ TSB

# HSLO\_STAAM

S-1668

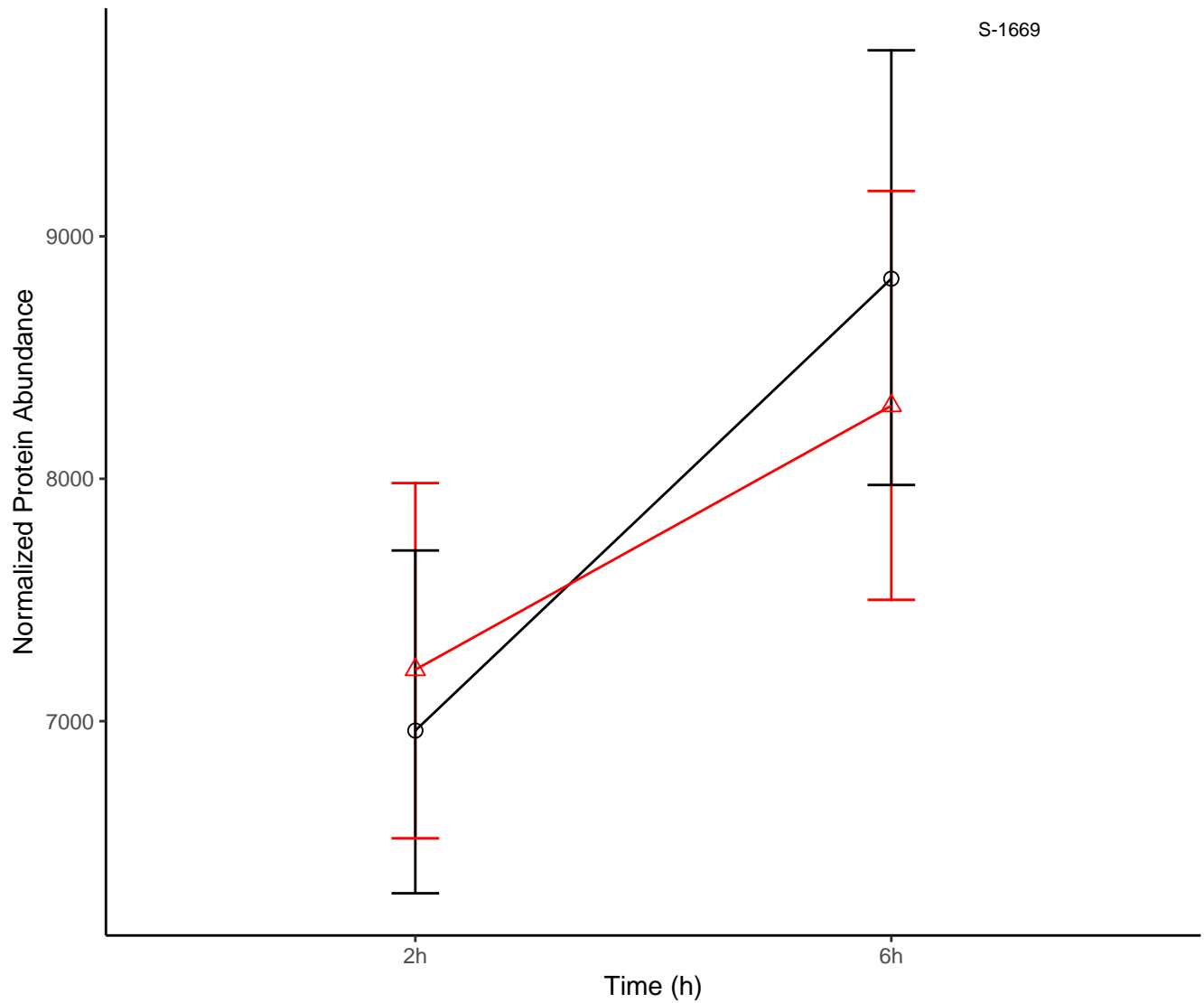


○ TSB-dex

△ TSB

# HSLU\_STAAM

S-1669

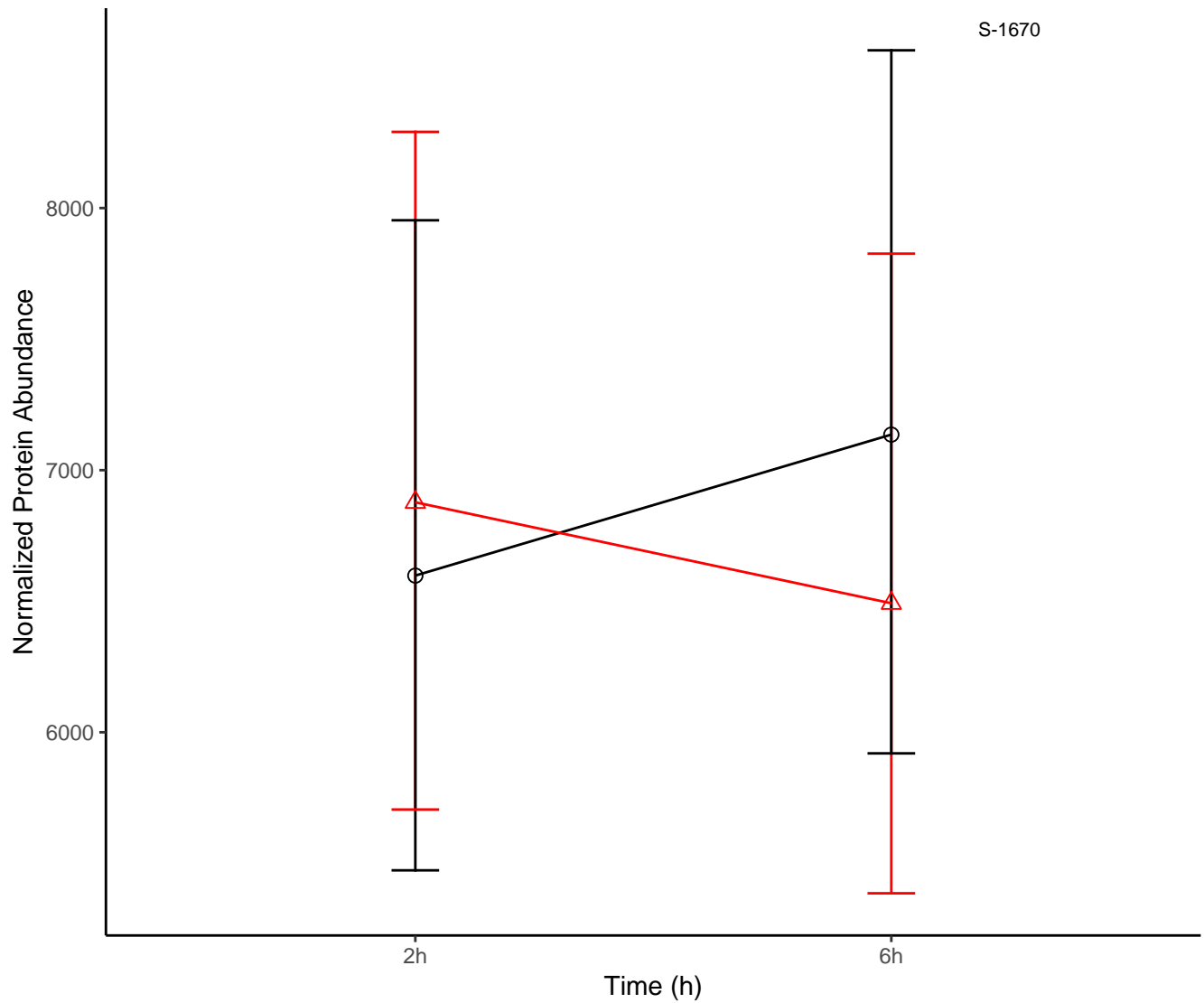


○ TSB-dex

△ TSB

# HSLV\_STAAM

S-1670

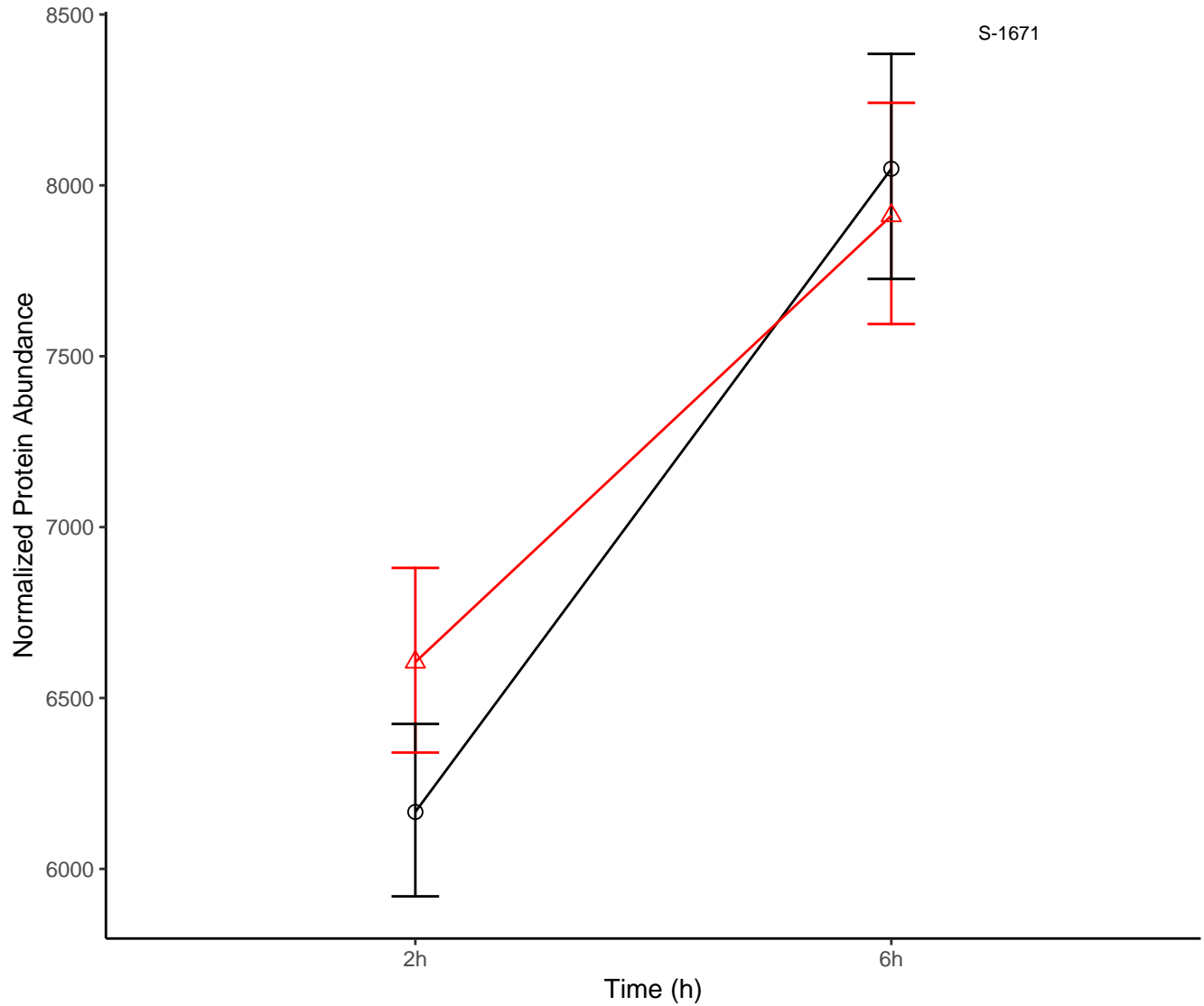


○ TSB-dex

△ TSB

# HUTH\_STAAM

S-1671

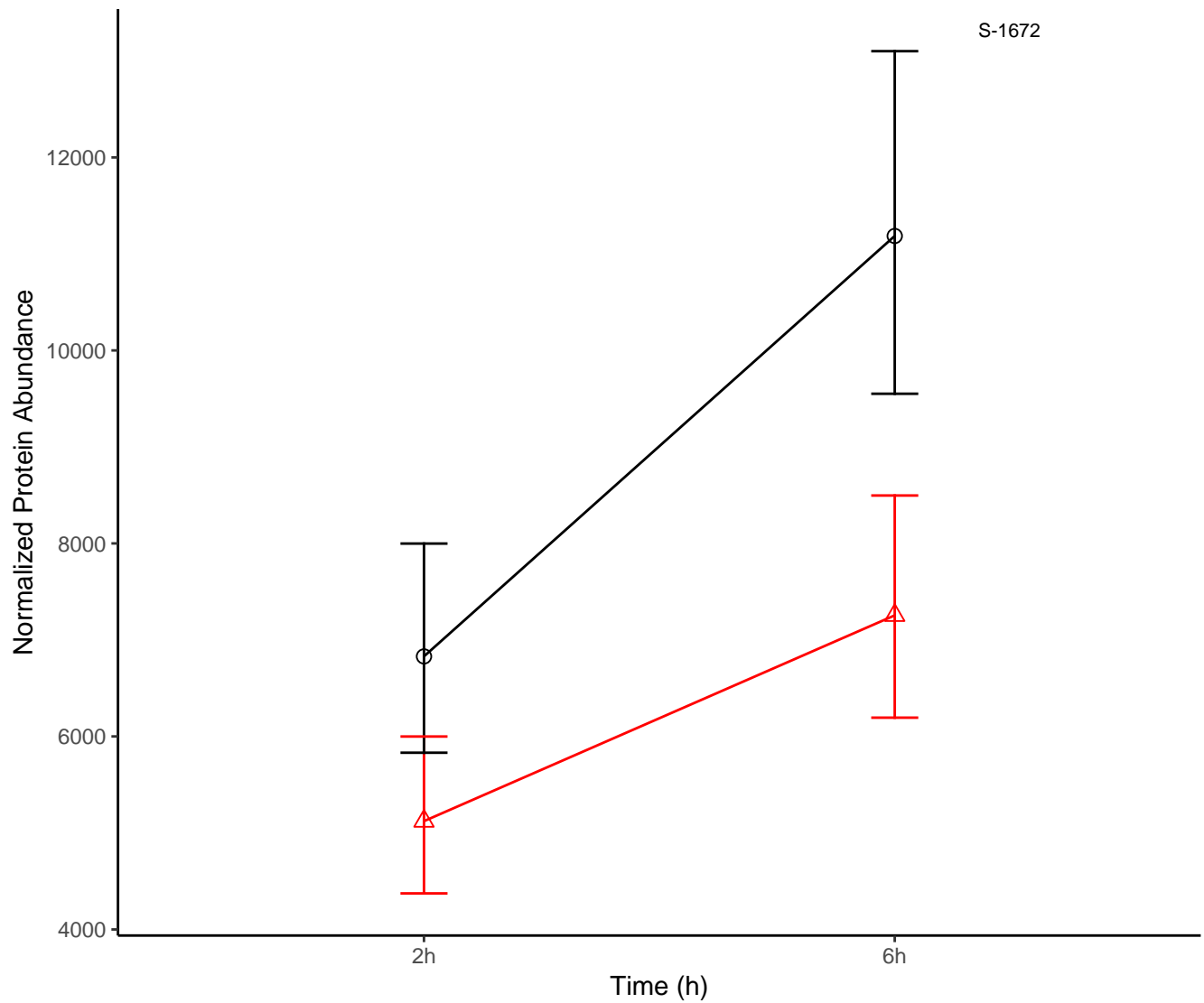


○ TSB-dex

△ TSB

# HUTI\_STAAM

S-1672



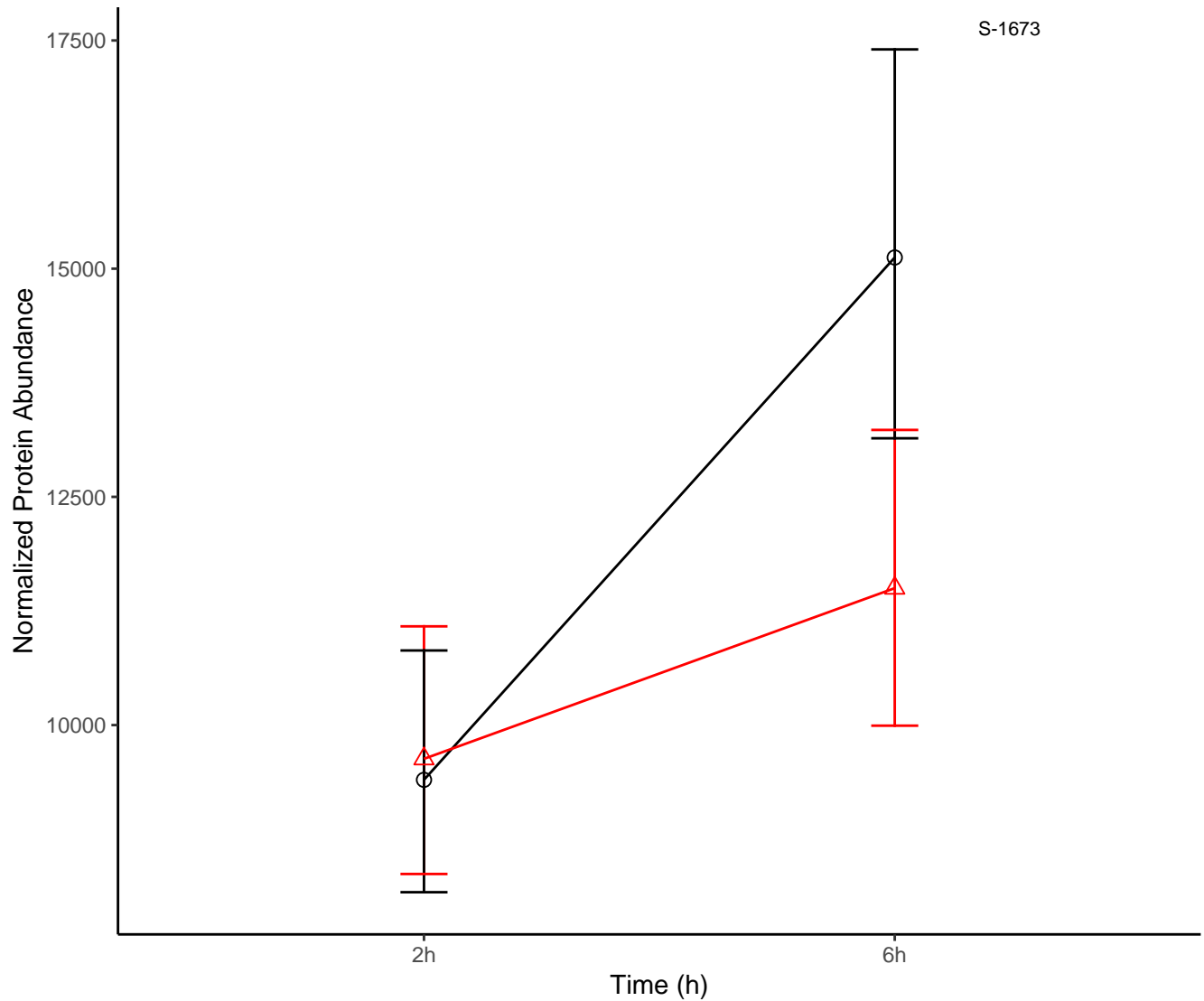
○ TSB-dex

△ TSB



# HUTU\_STAAM

S-1673

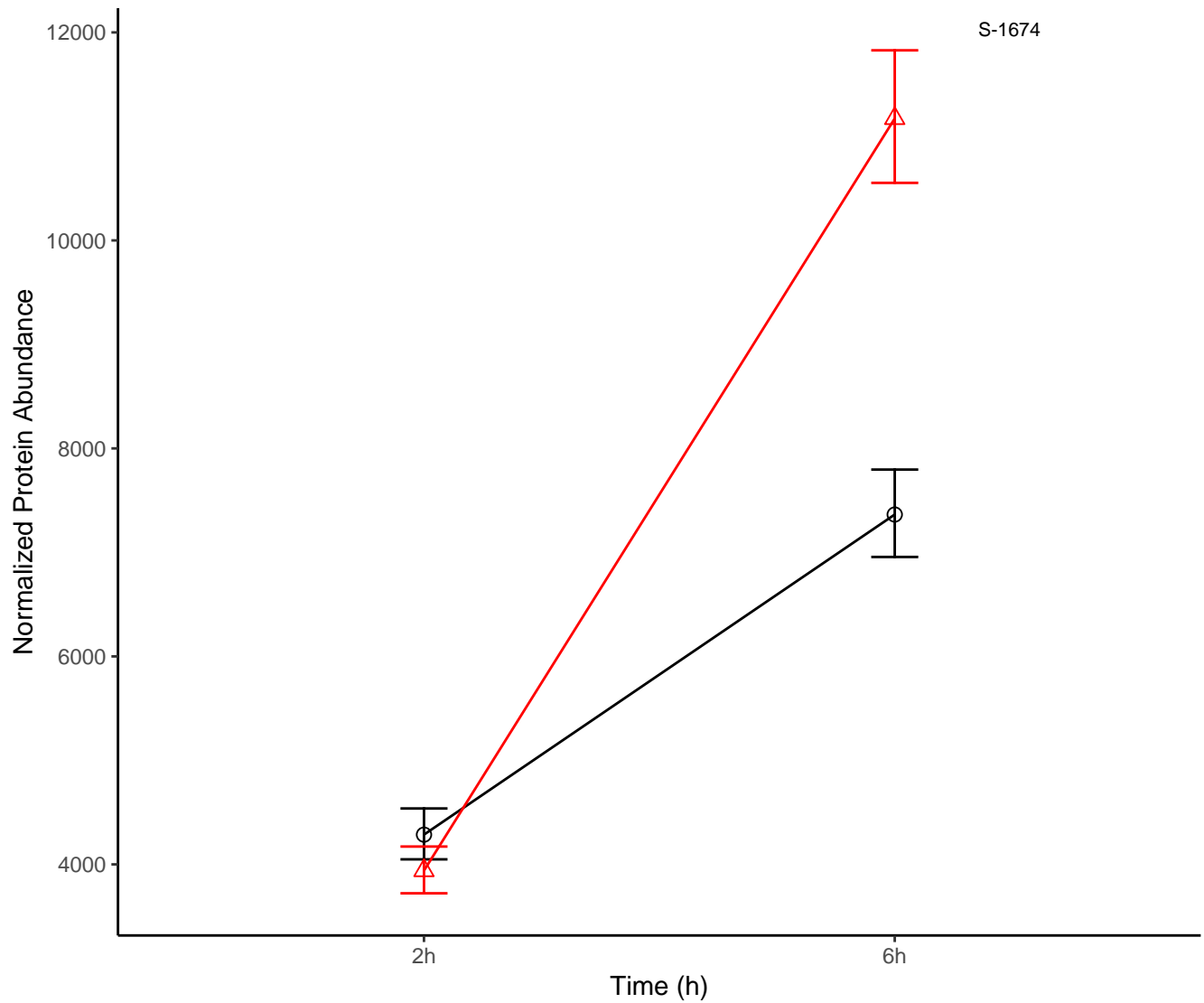


○ TSB-dex

△ TSB

# ICAB\_STAAM

S-1674

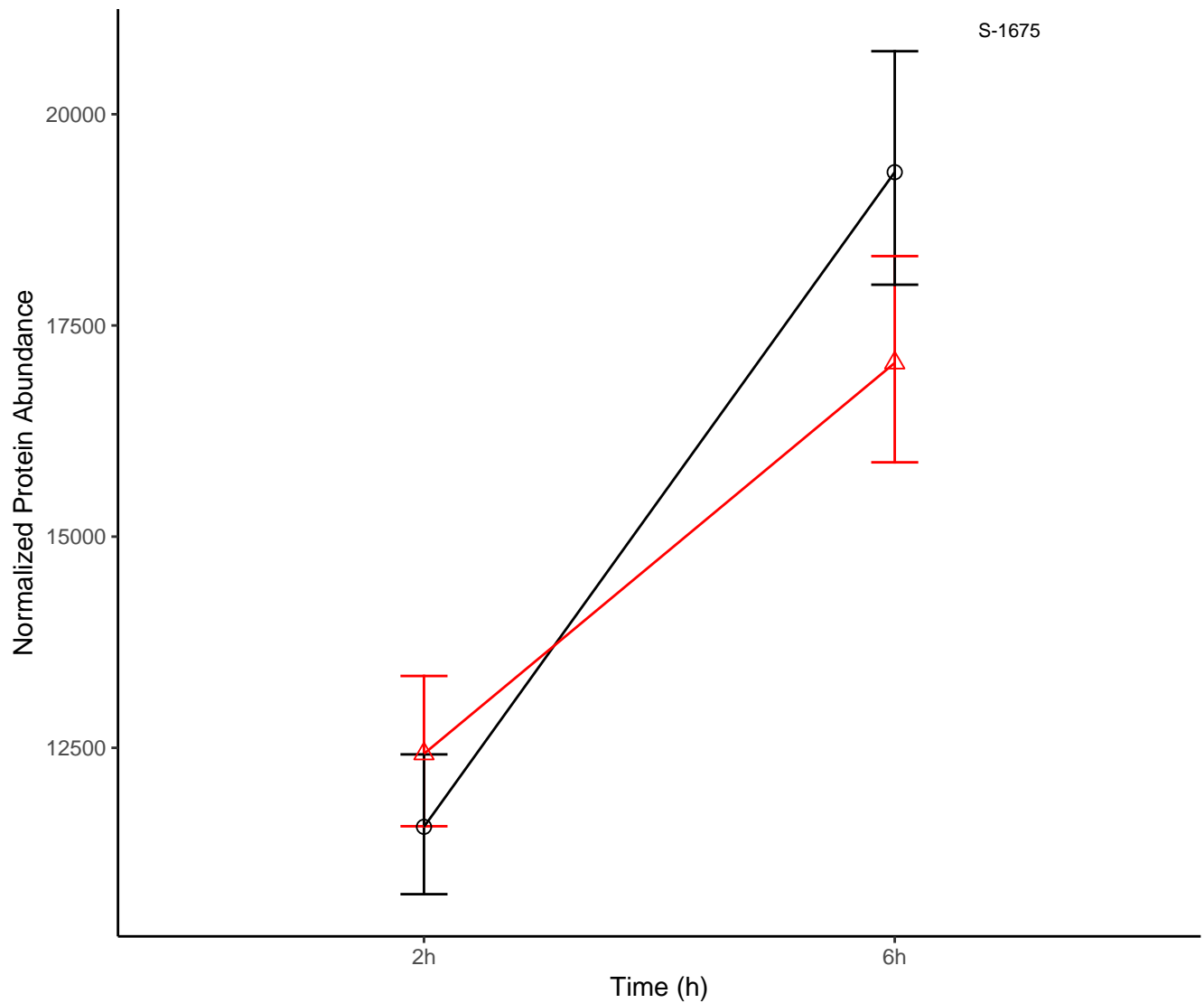


○ TSB-dex

△ TSB

# IDH\_STAAM

S-1675

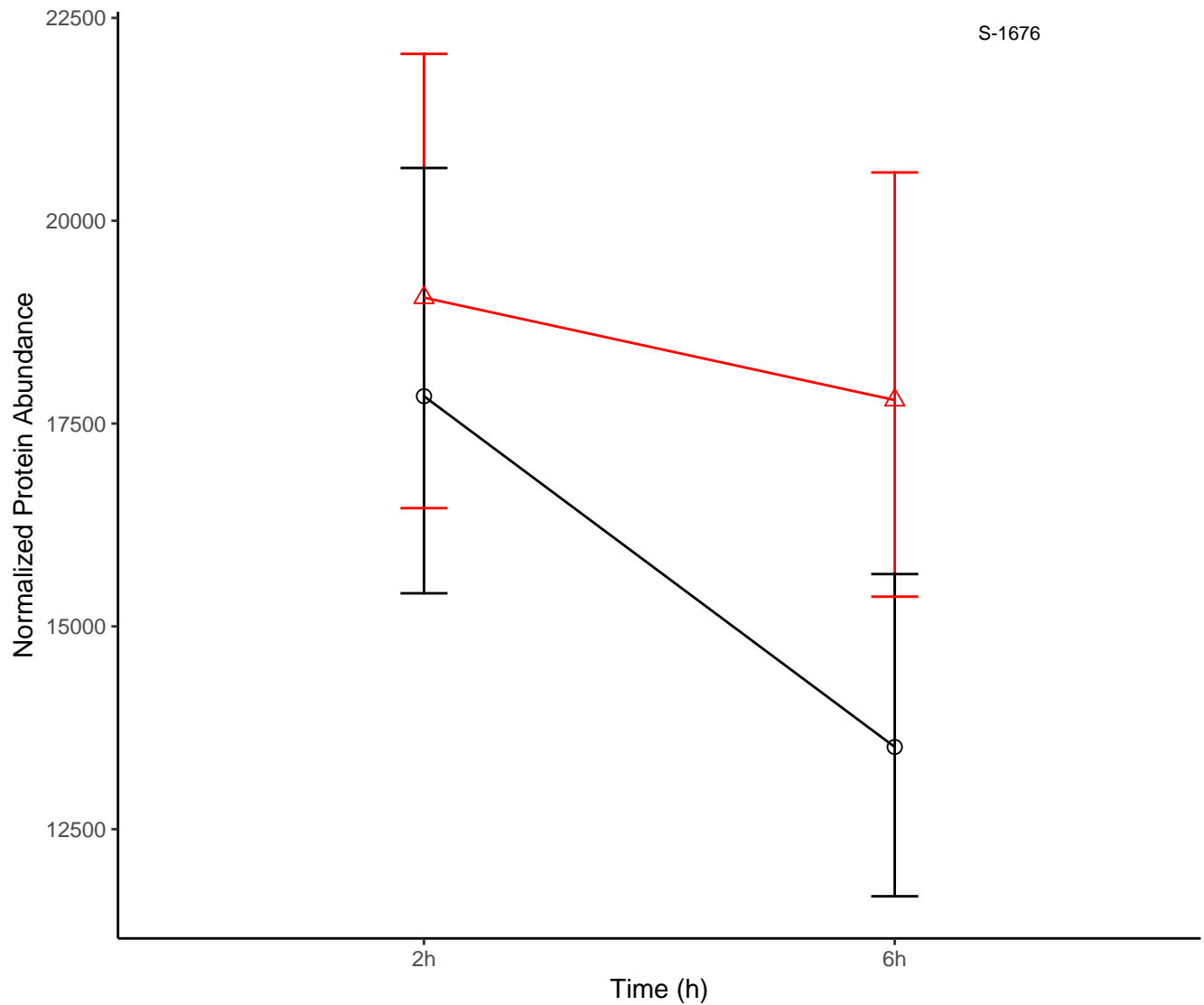


○ TSB-dex

△ TSB

# IF1\_STAAM

S-1676

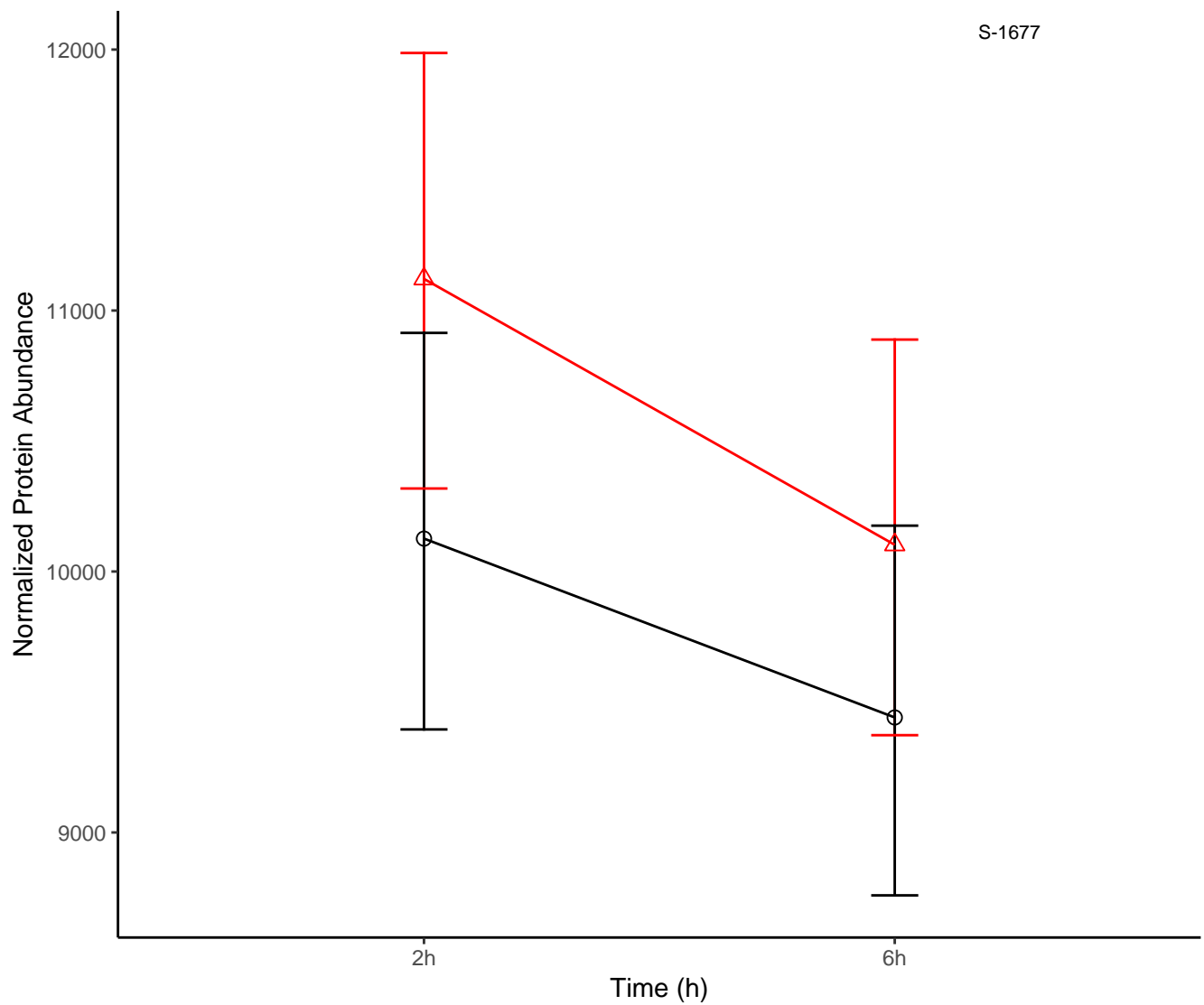


○ TSB-dex

△ TSB

# IF2\_STAAM

S-1677

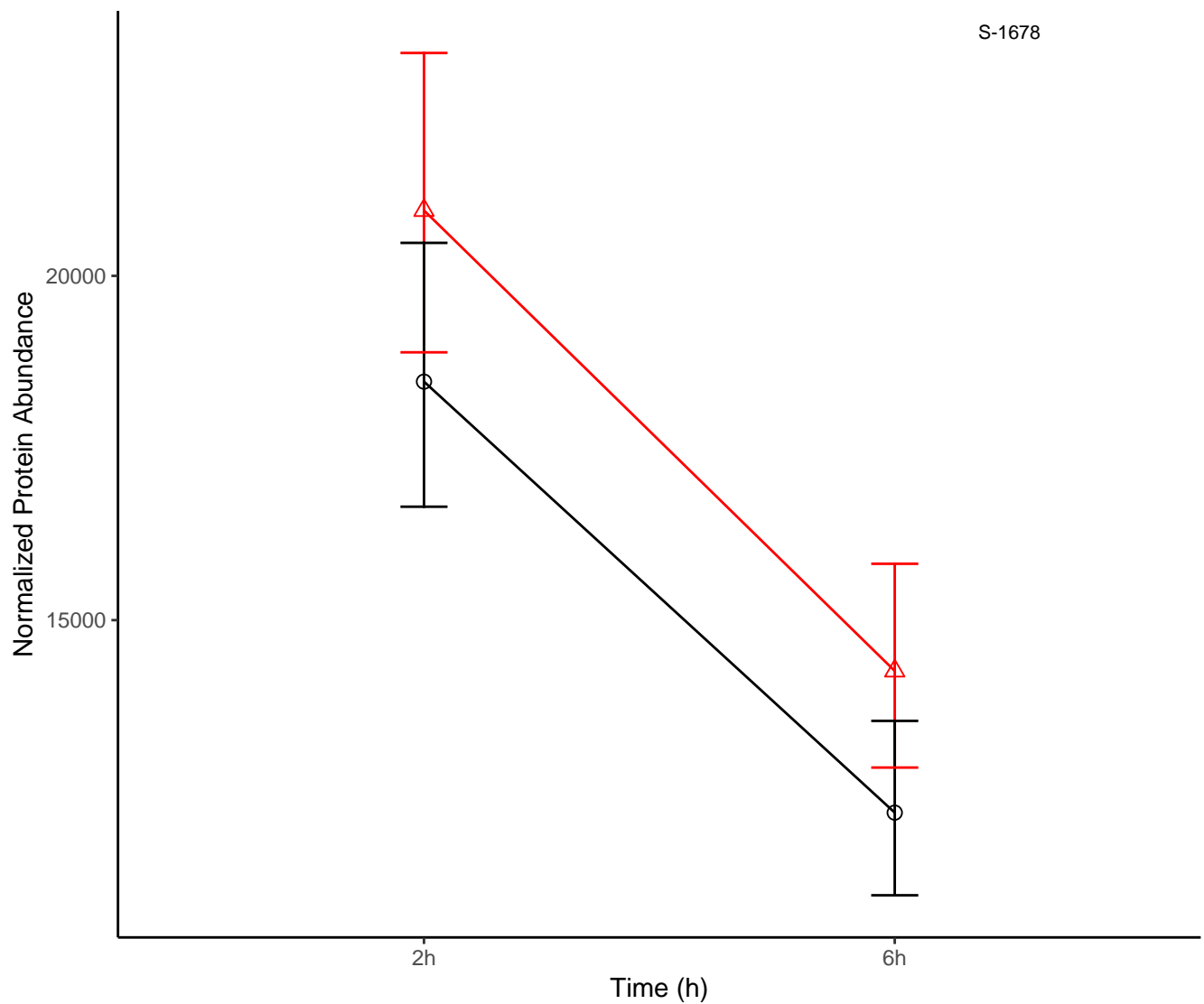


○ TSB-dex

△ TSB

# IF3\_STAAM

S-1678

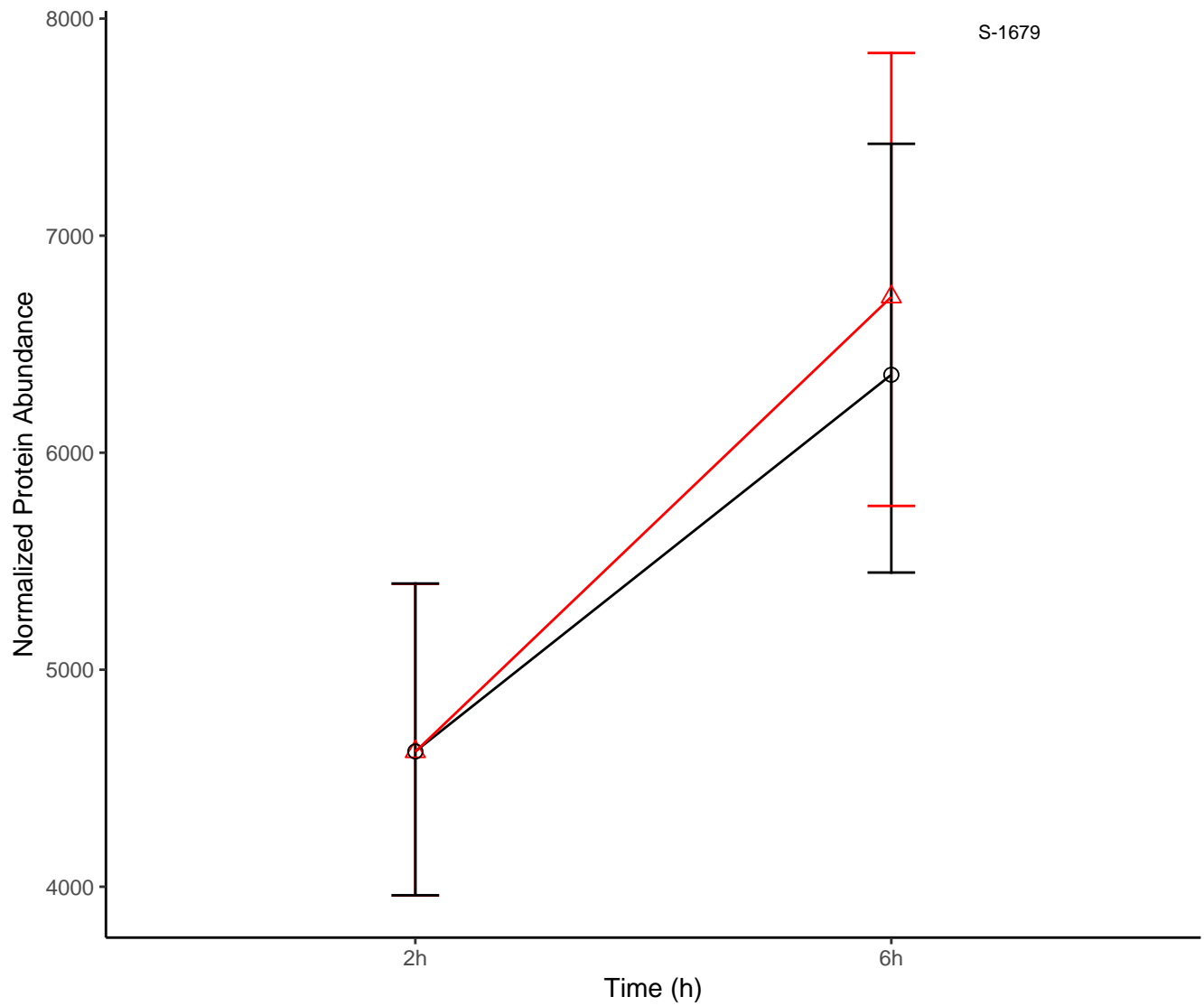


○ TSB-dex

△ TSB

# ILVC\_STAAM

S-1679

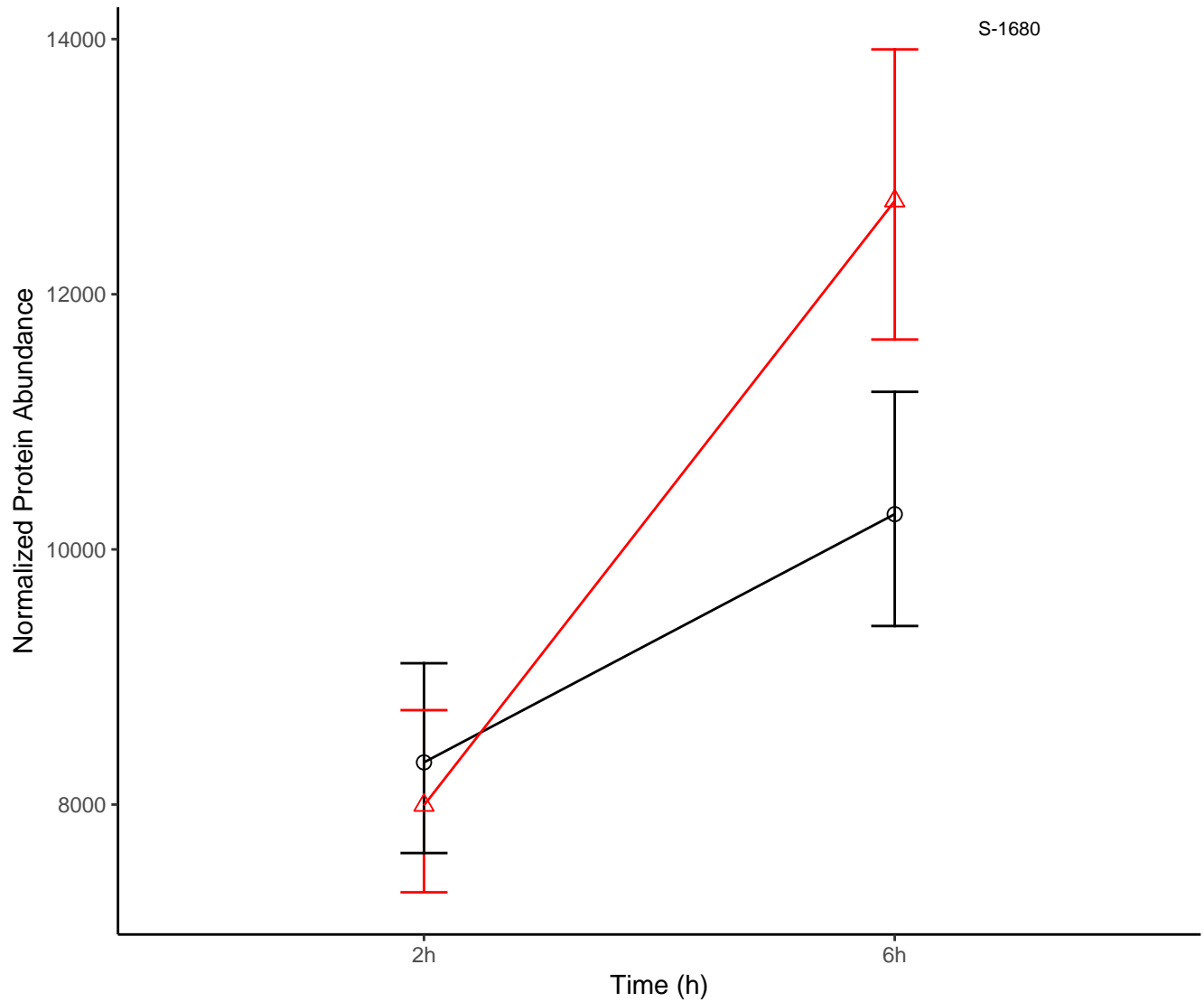


○ TSB-dex

△ TSB

# ILVE\_STAAM

S-1680



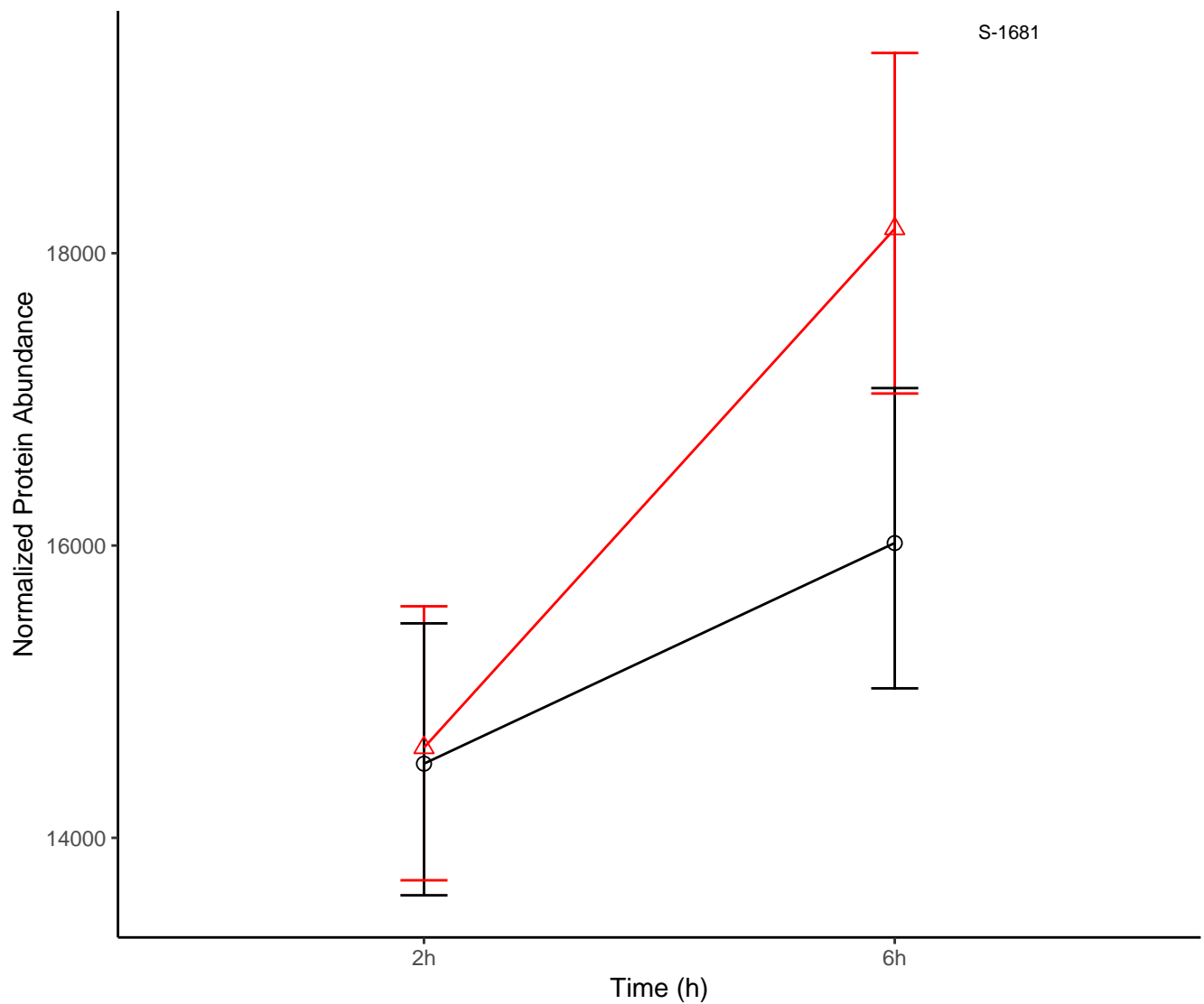
○ TSB-dex

△ TSB



# IMDH\_STAAM

S-1681

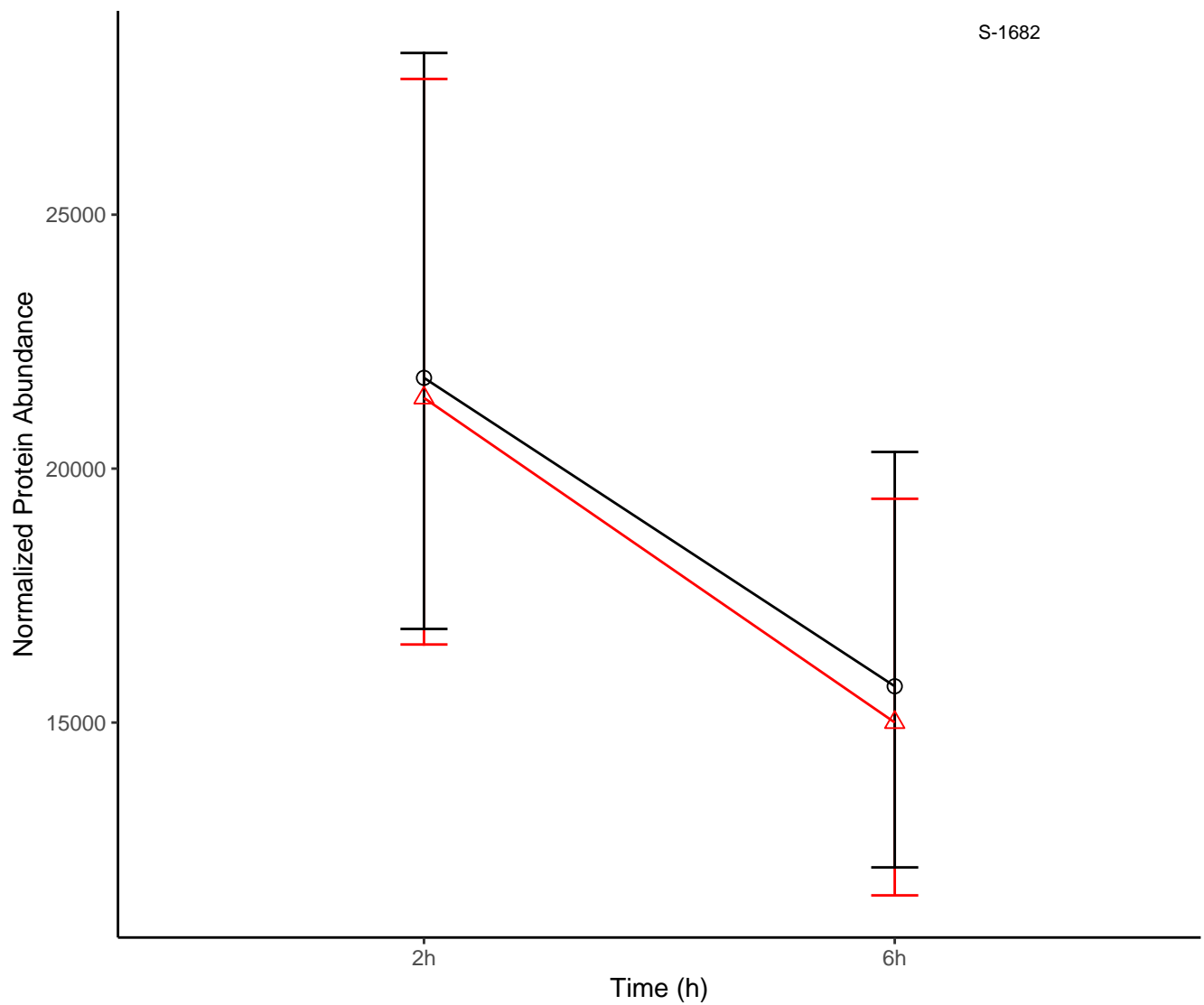


○ TSB-dex

△ TSB

# ISAA\_STAAM

S-1682

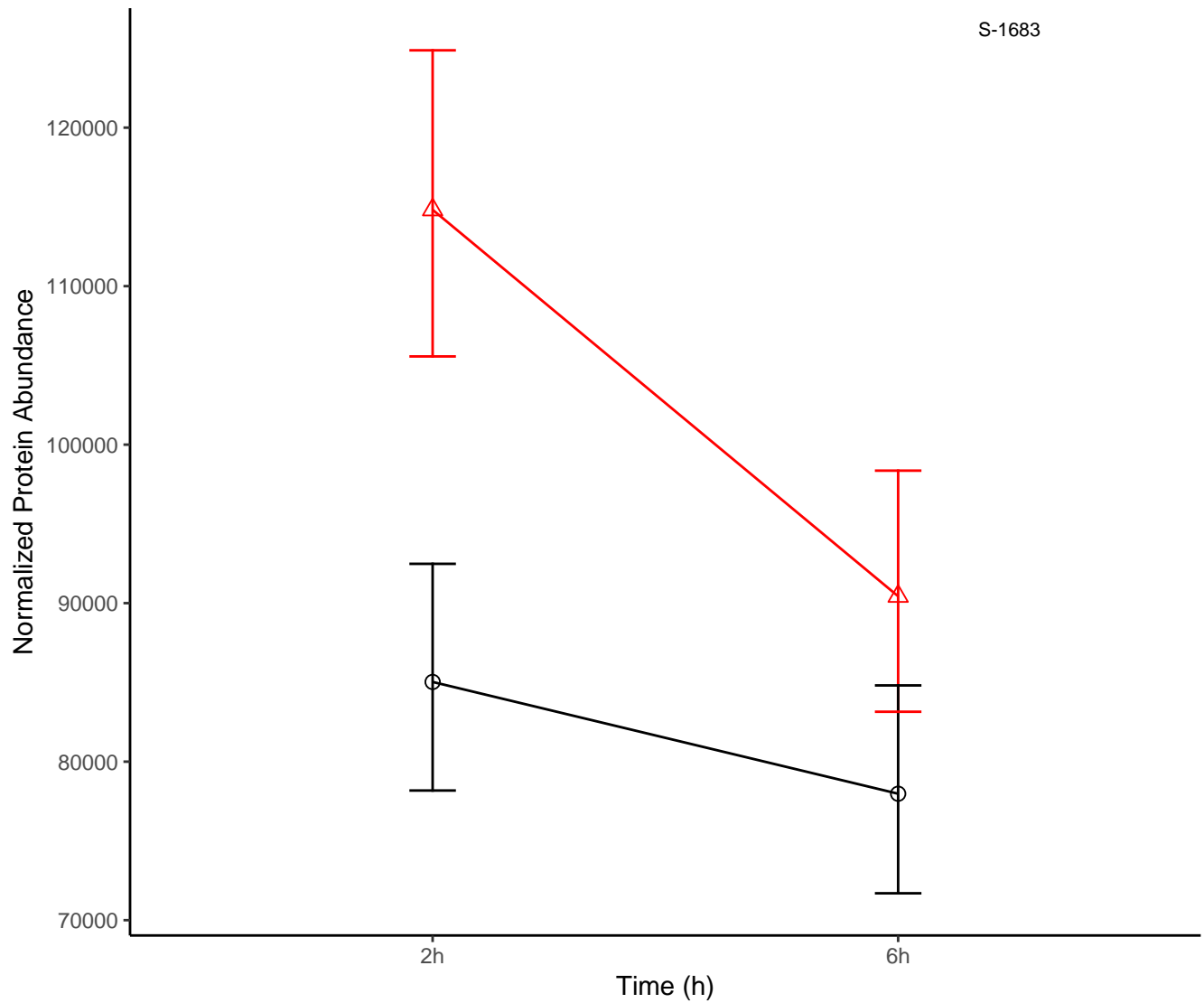


○ TSB-dex

△ TSB

# ISPD1\_STAAM

S-1683

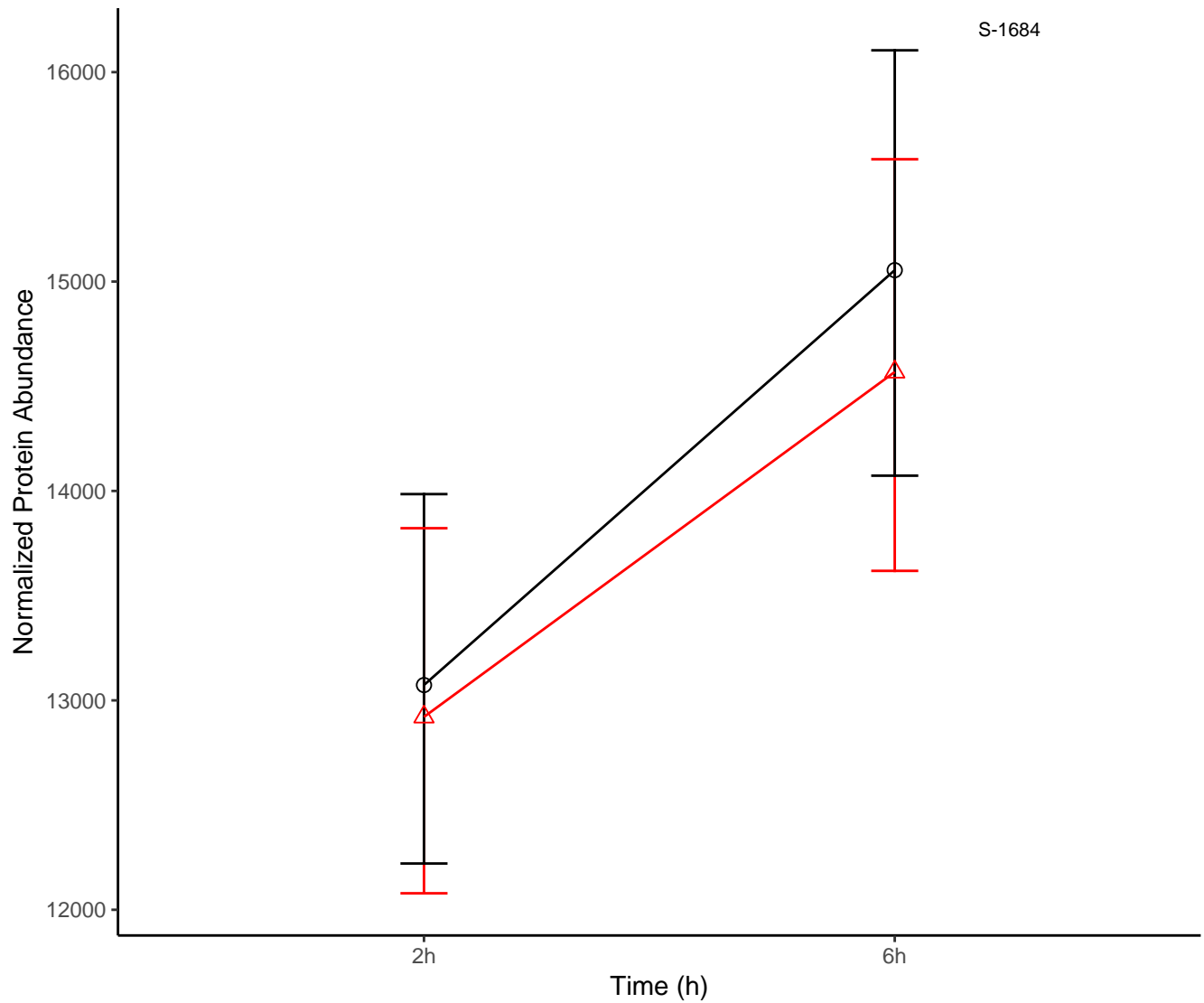


○ TSB-dex

△ TSB

# ISPD2\_STAAM

S-1684

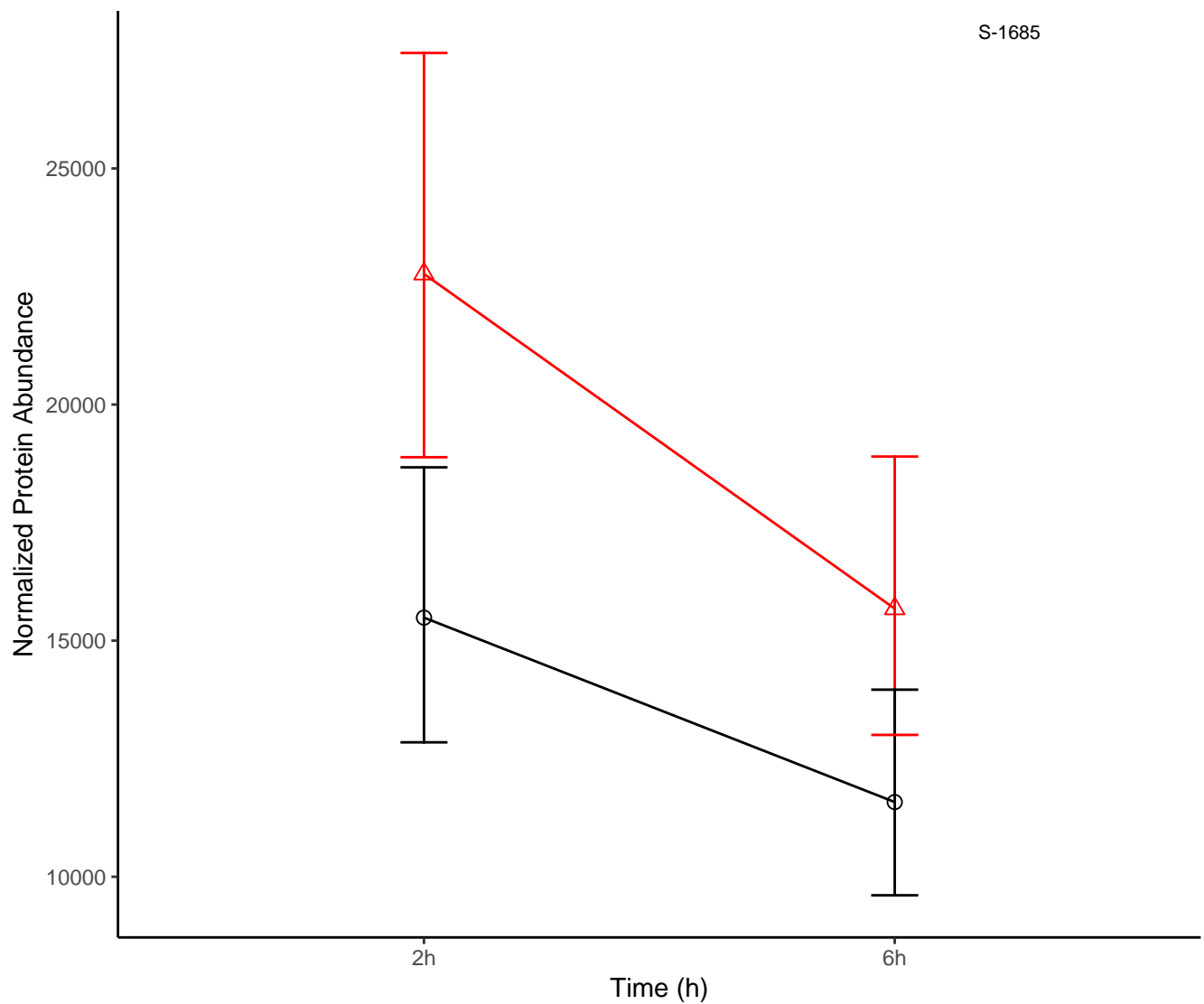


○ TSB-dex

△ TSB

# ISPE\_STAAM

S-1685

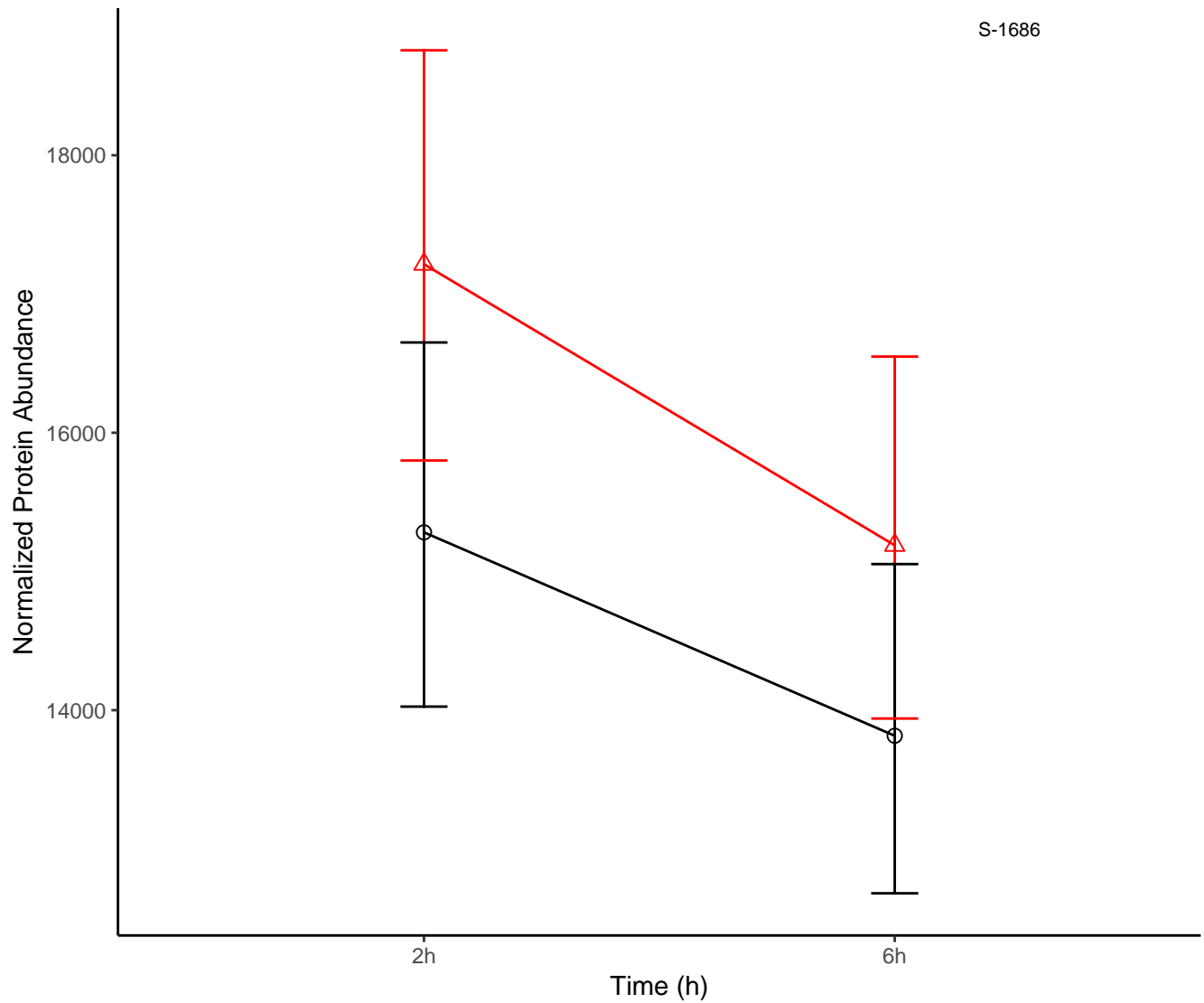


○ TSB-dex

△ TSB

# KAD\_STAAM

S-1686

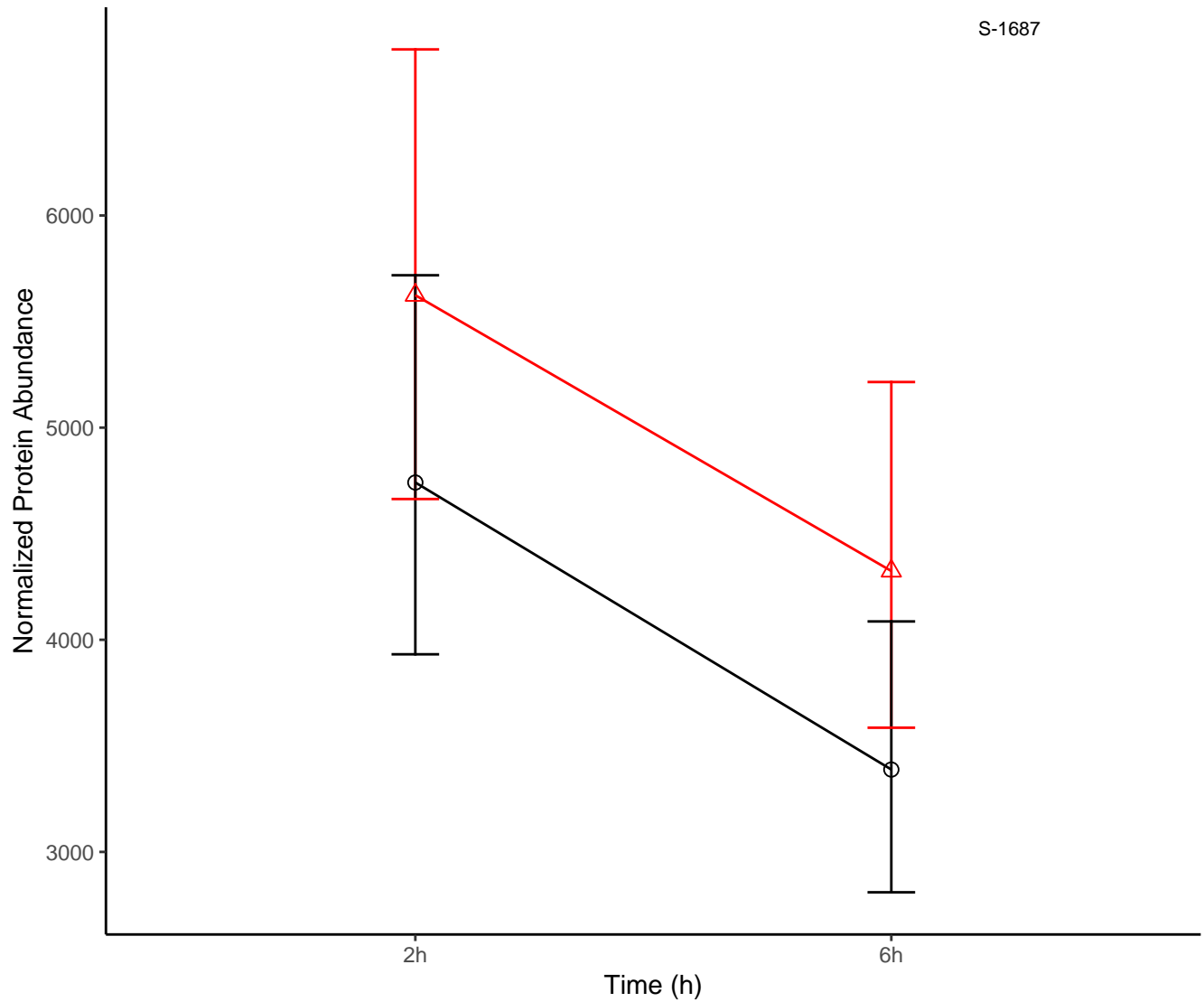


○ TSB-dex

△ TSB

# KCY\_STAAM

S-1687

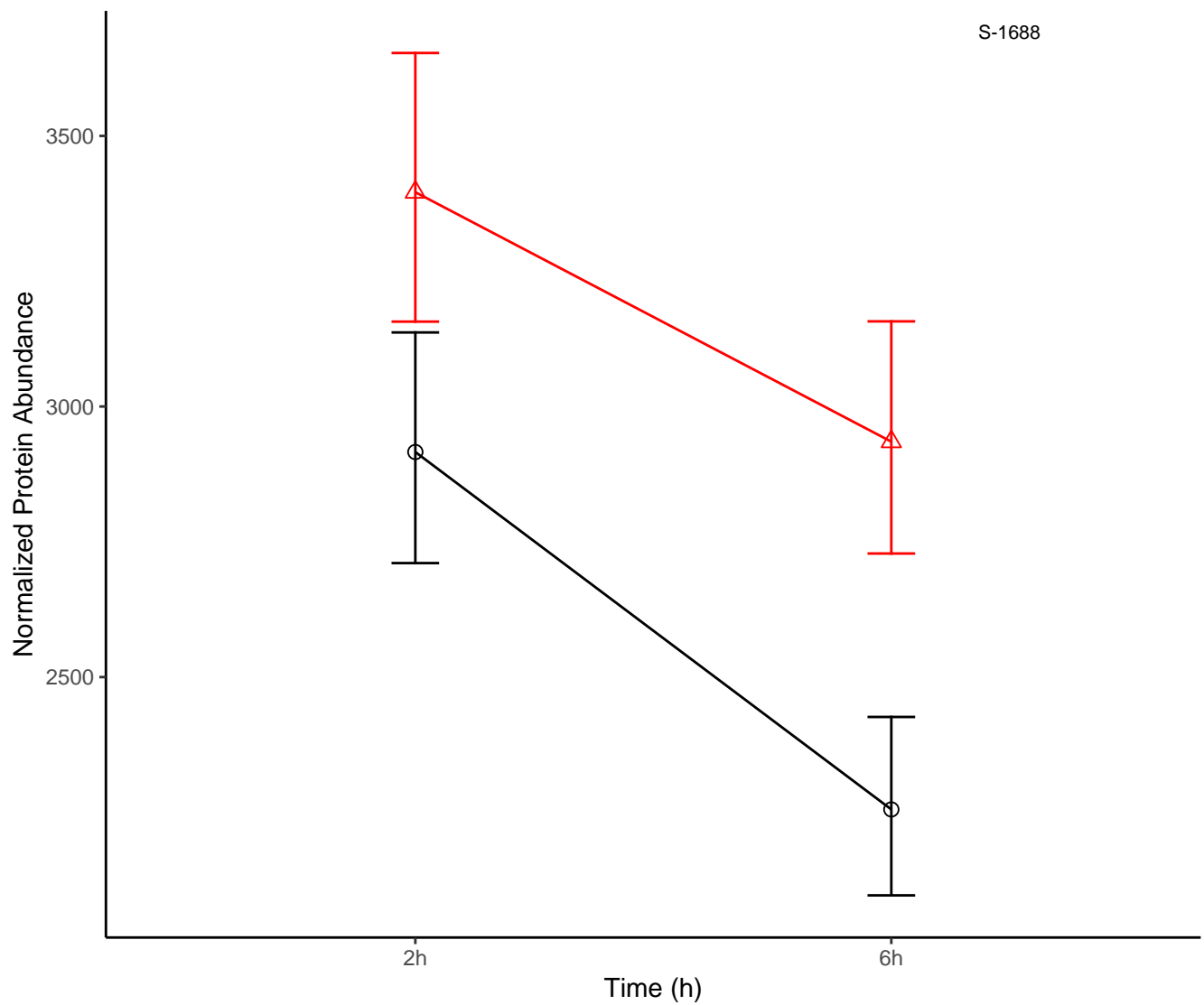


○ TSB-dex

△ TSB

# KITH\_STAAM

S-1688



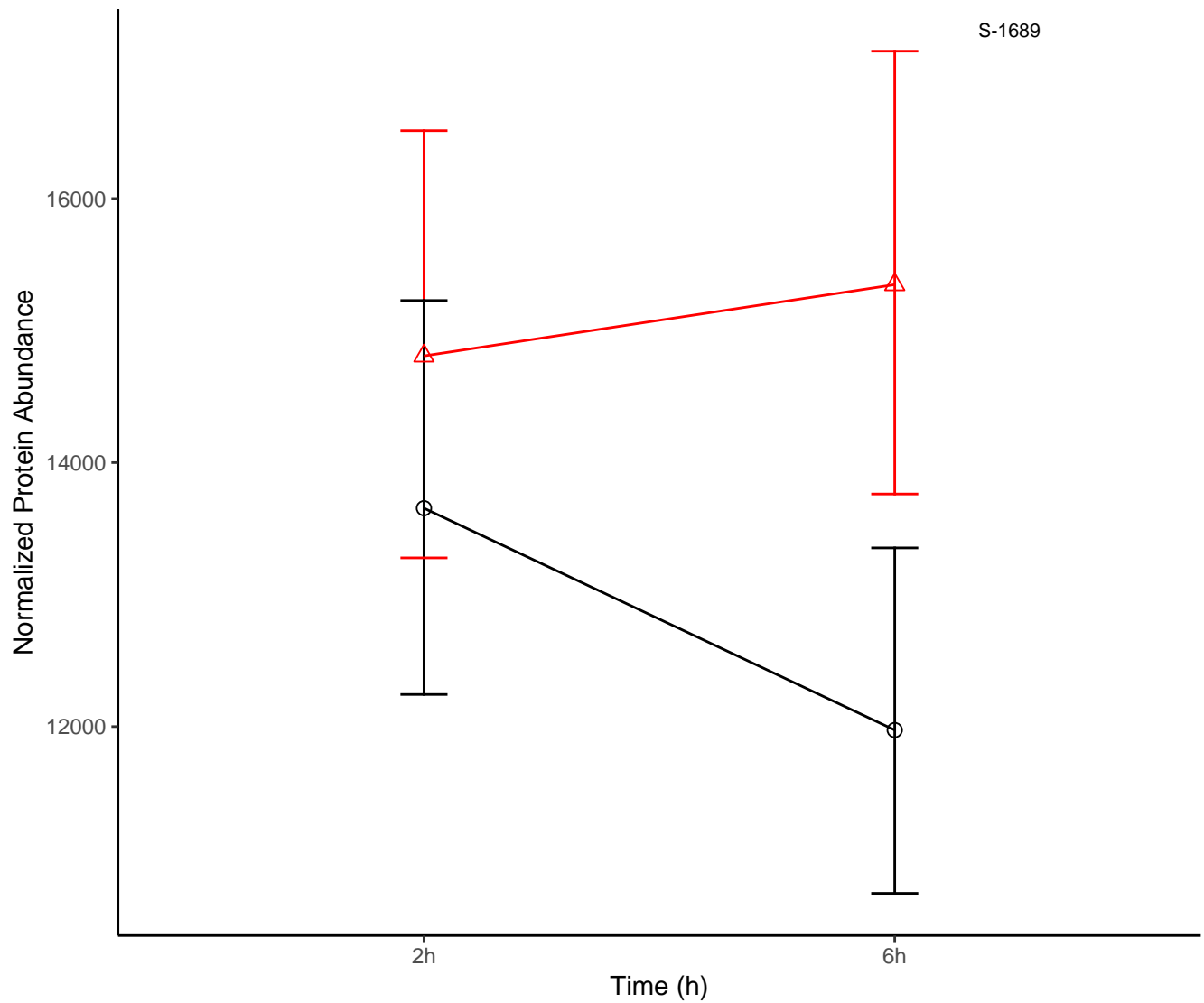
○ TSB-dex

△ TSB



# KPRS\_STAAM

S-1689

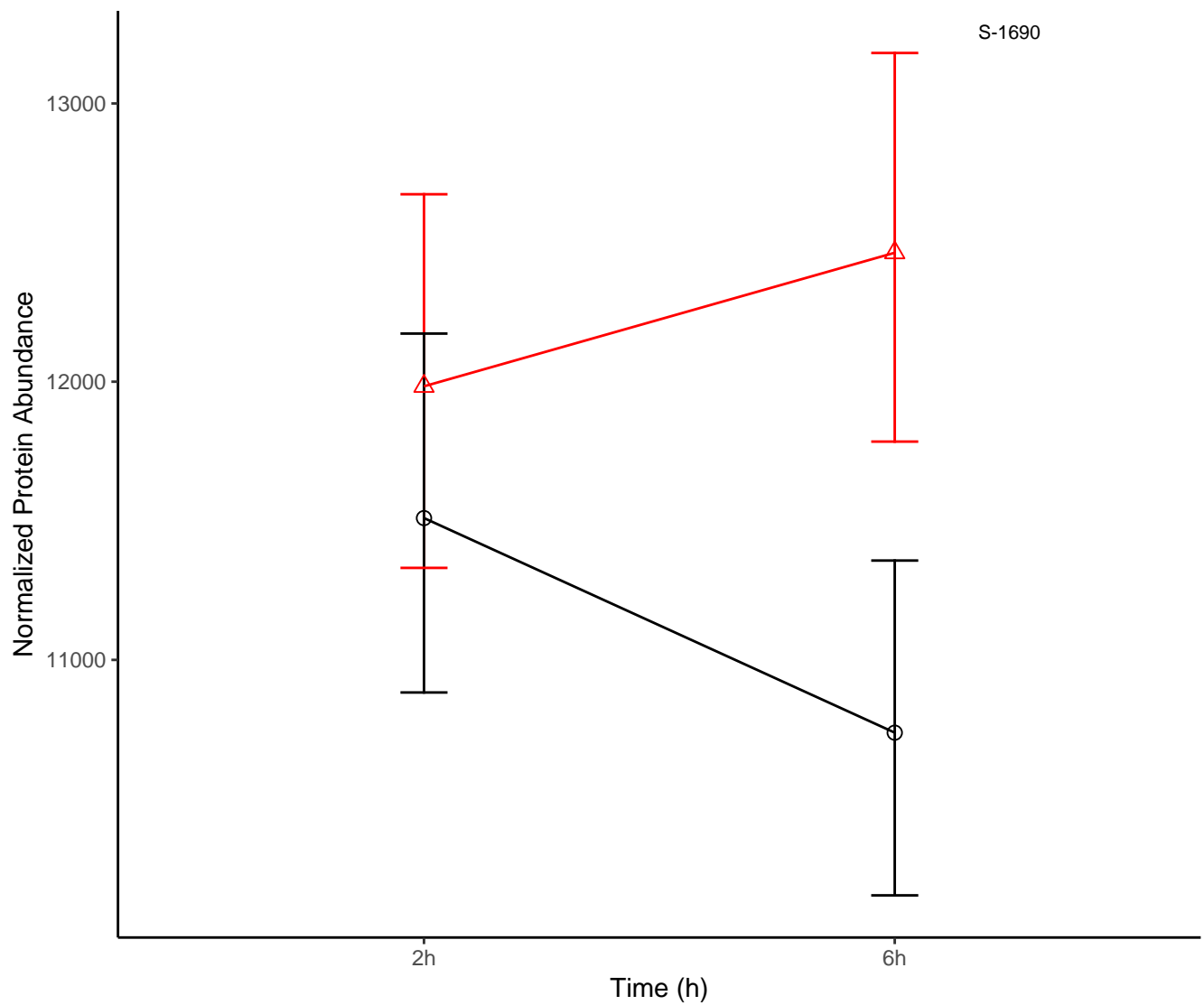


○ TSB-dex

△ TSB

# KPYK\_STAAM

S-1690

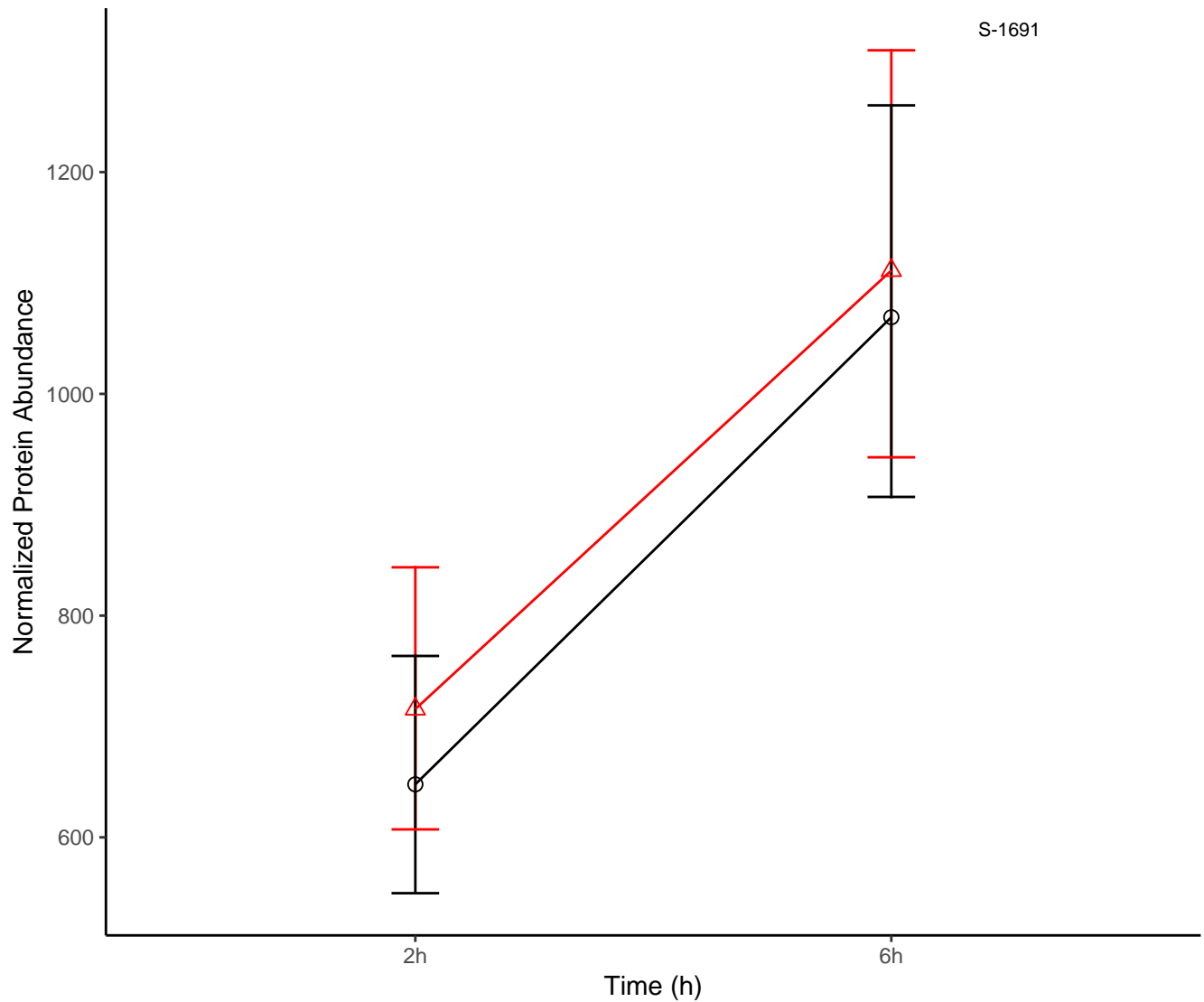


○ TSB-dex

△ TSB

# KTHY\_STAAM

S-1691



○ TSB-dex

△ TSB

# LACA\_STAAM

S-1692

Normalized Protein Abundance

25000

20000

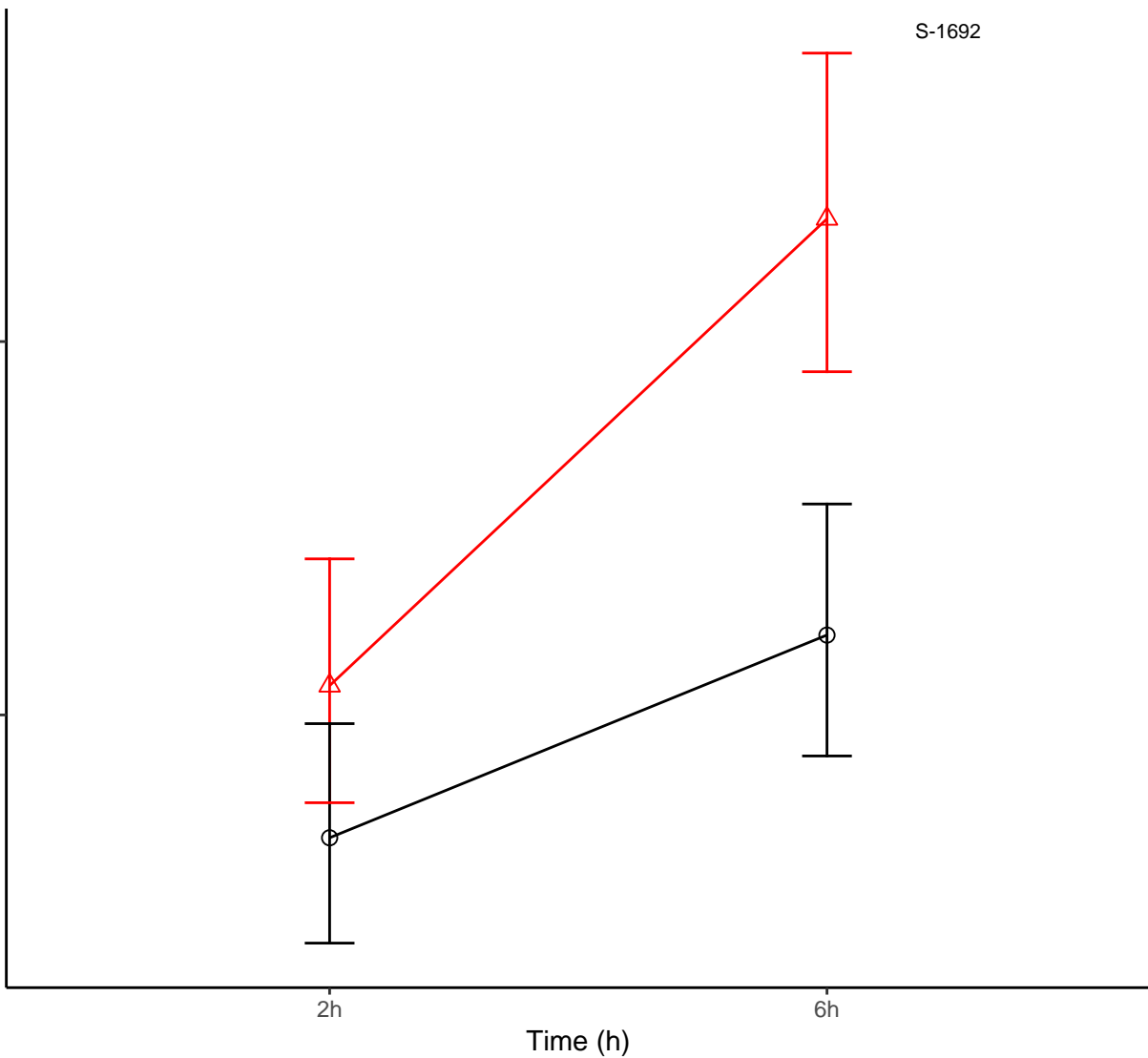
2h

6h

Time (h)

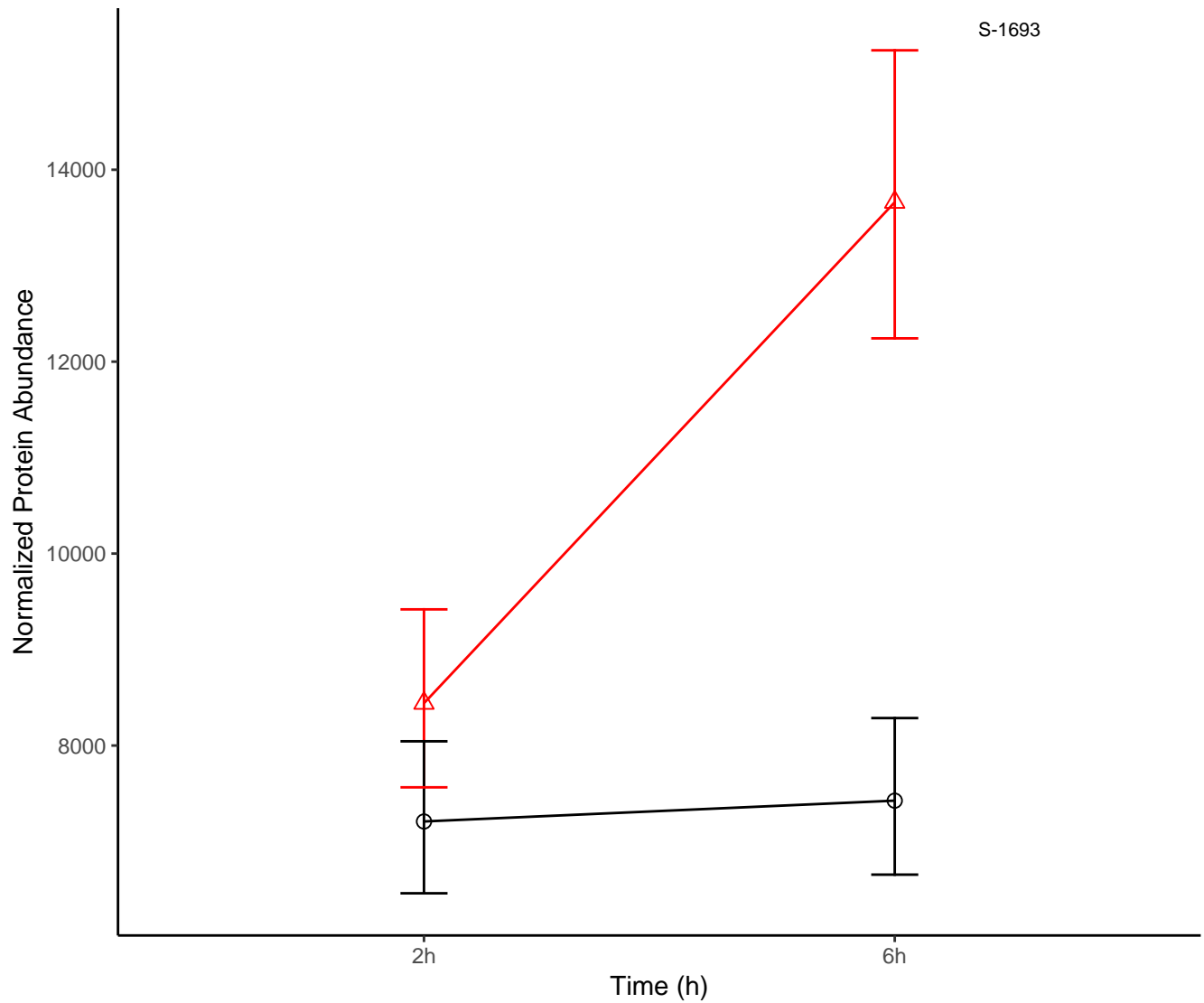
○ TSB-dex

△ TSB



# LDH1\_STAAM

S-1693



○ TSB-dex

△ TSB

# LDH2\_STAAM

S-1694

Normalized Protein Abundance

30000

20000

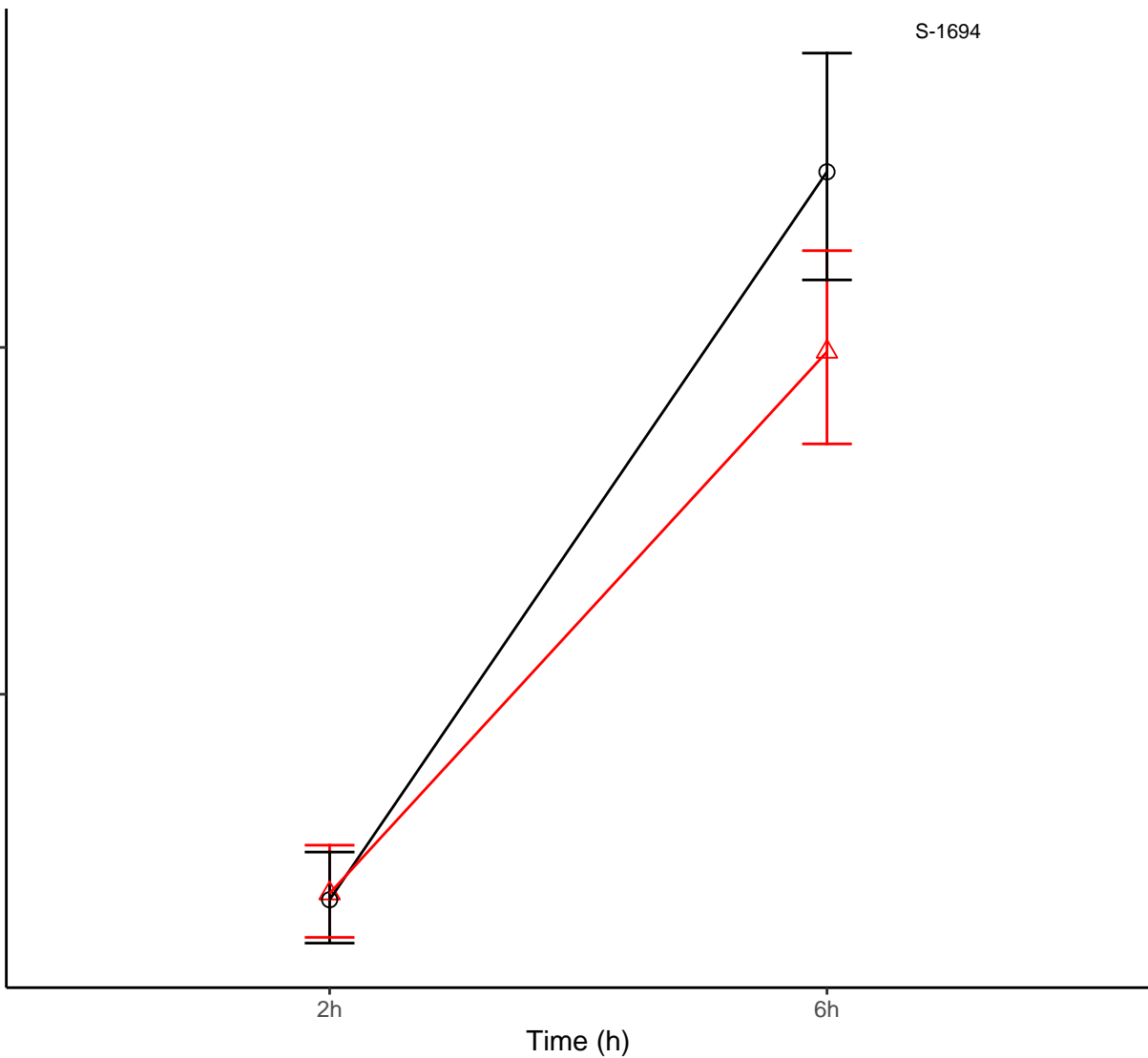
2h

6h

Time (h)

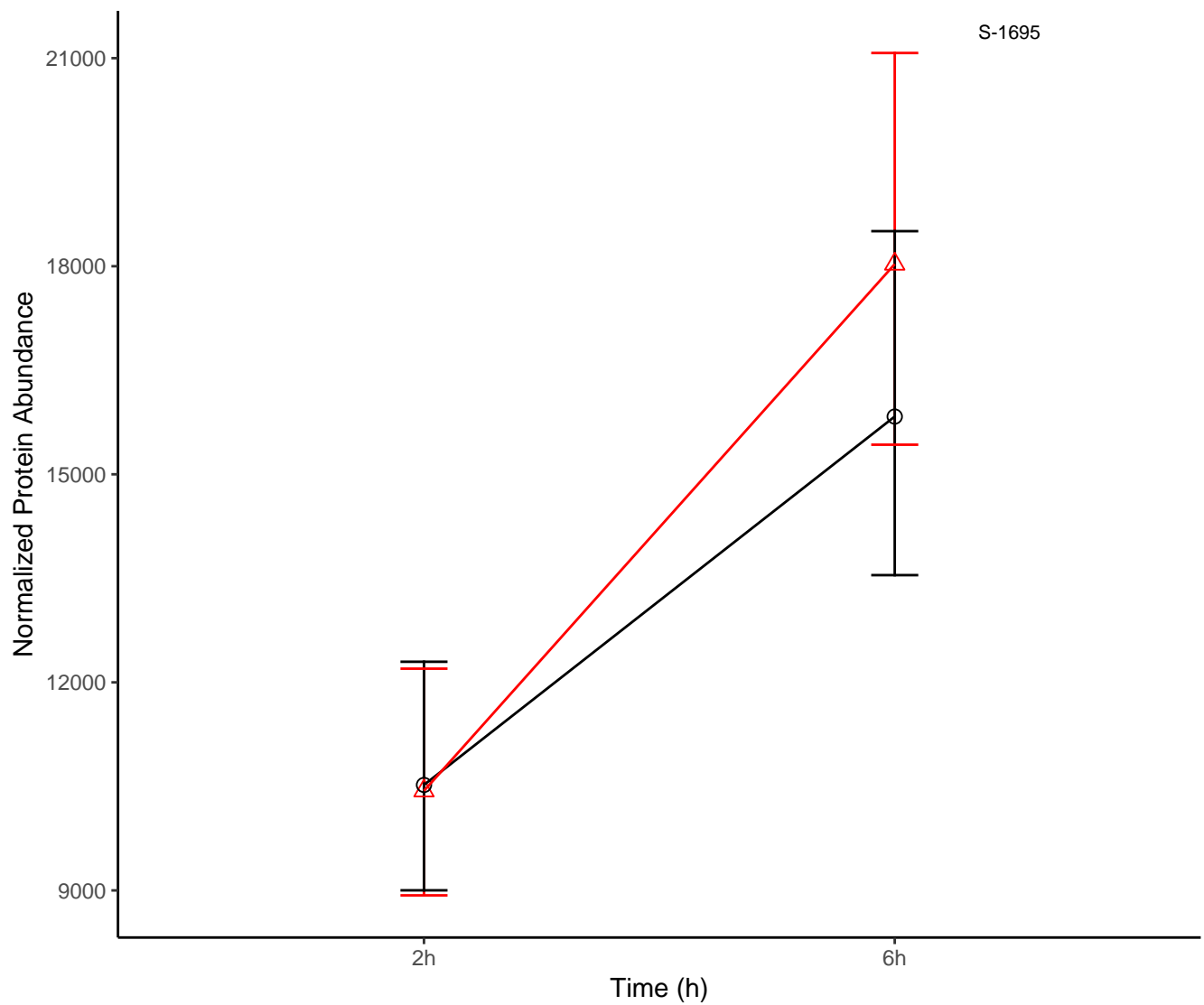
○ TSB-dex

△ TSB



# LDHD\_STAAM

S-1695

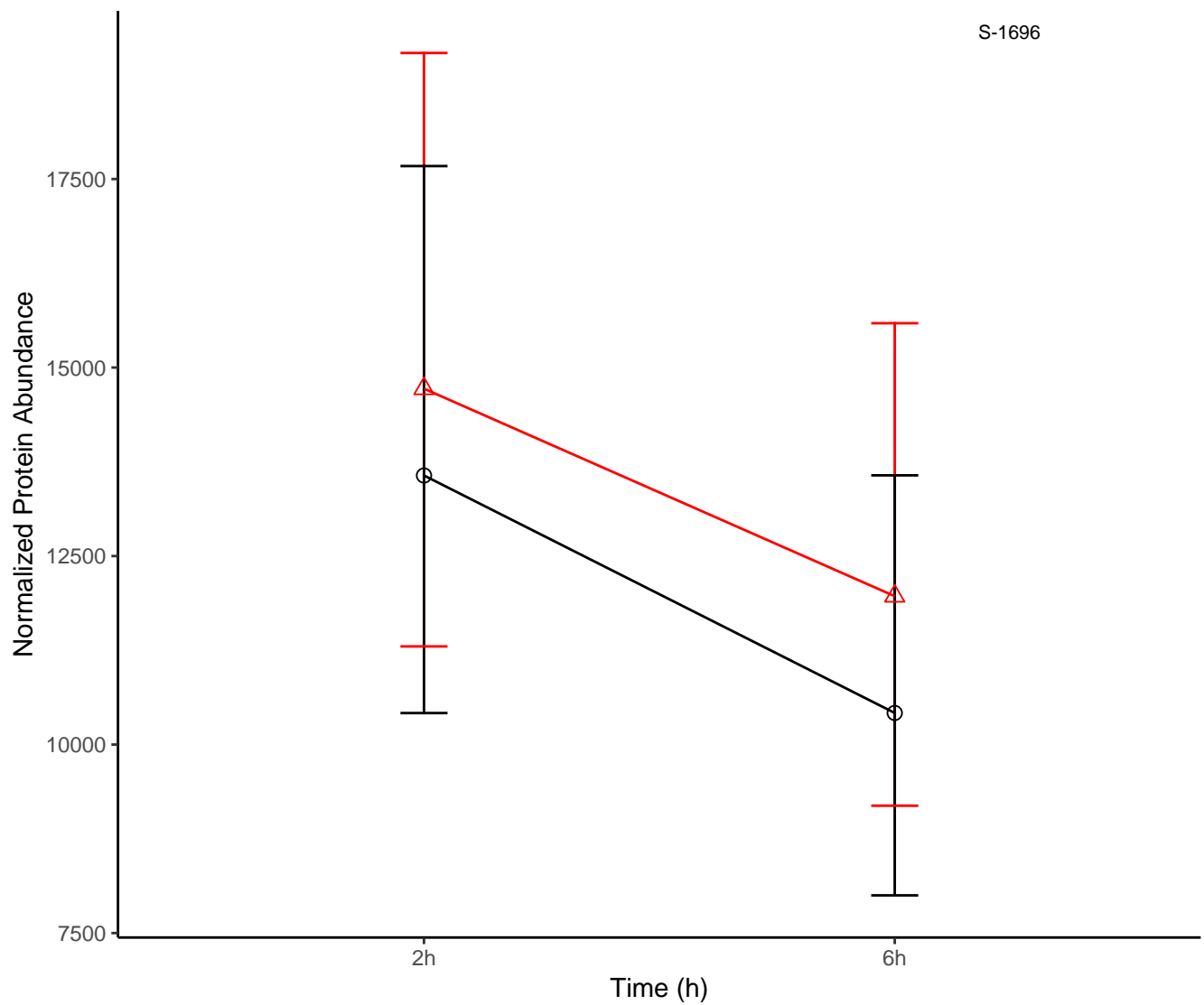


○ TSB-dex

△ TSB

# LEP\_STAAM

S-1696



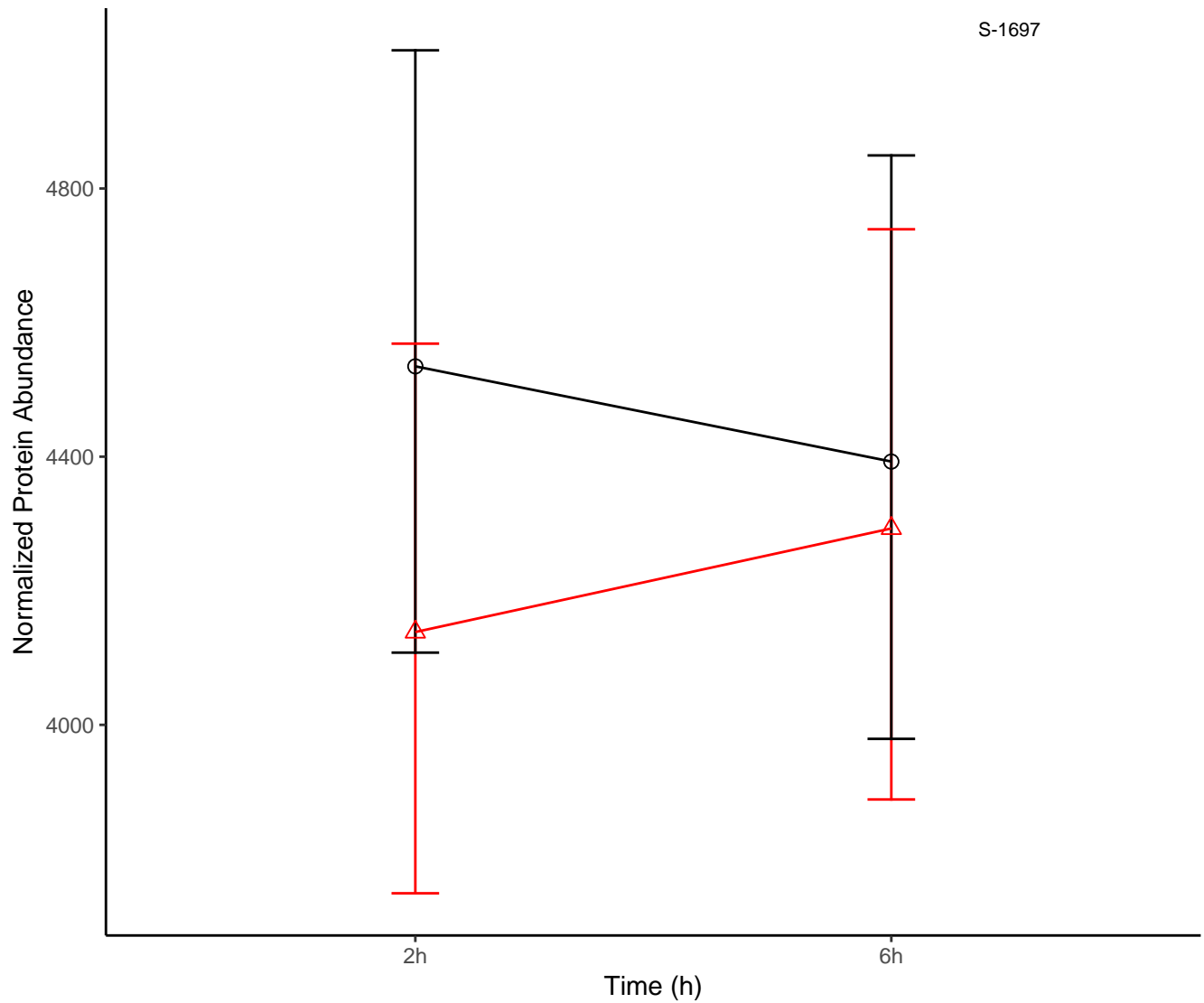
○ TSB-dex

△ TSB



# LEPA\_STAAM

S-1697

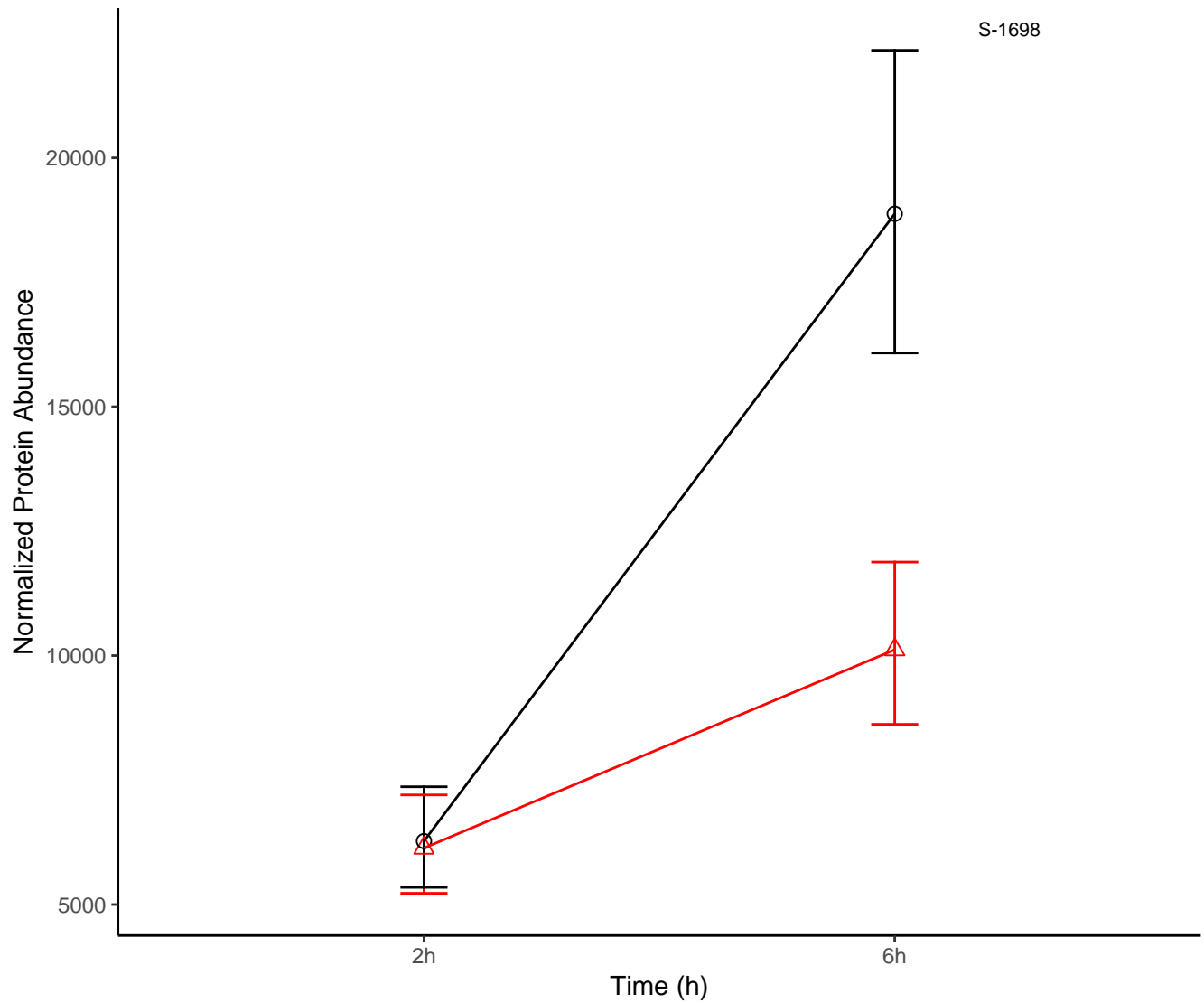


○ TSB-dex

△ TSB

# LEU1\_STAAM

S-1698

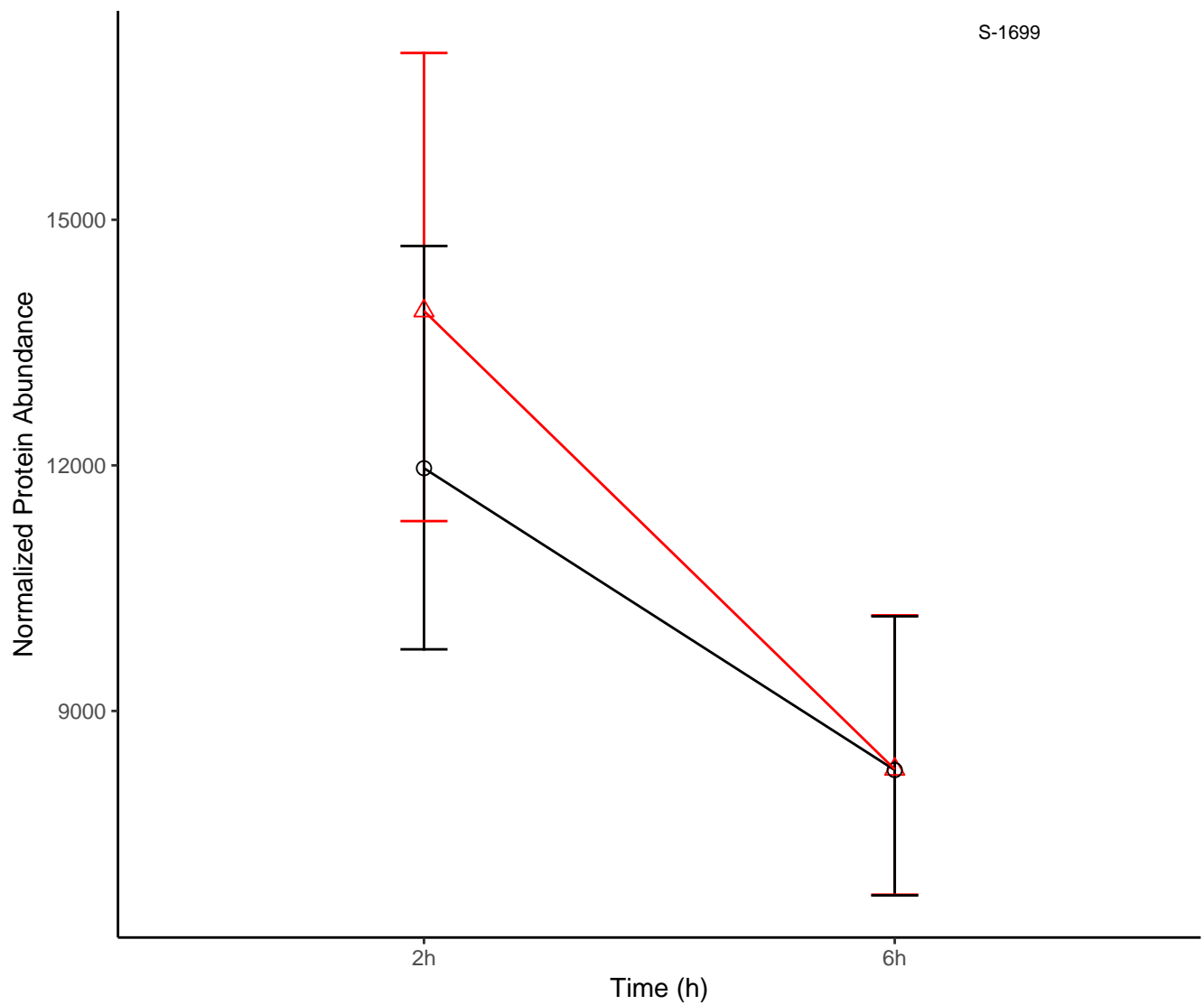


○ TSB-dex

△ TSB

# LIPA\_STAAM

S-1699

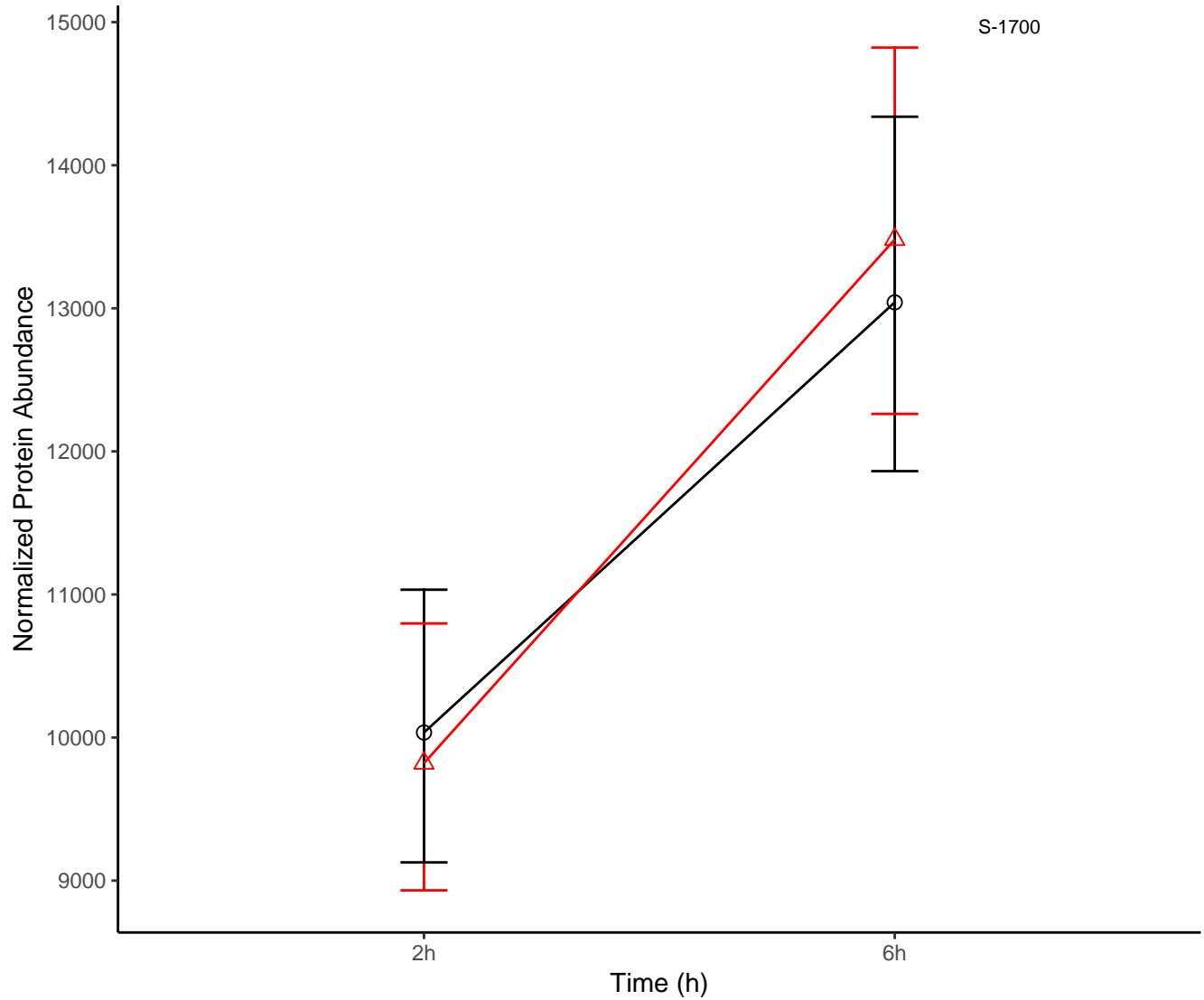


○ TSB-dex

△ TSB

# LUXS\_STAAM

S-1700

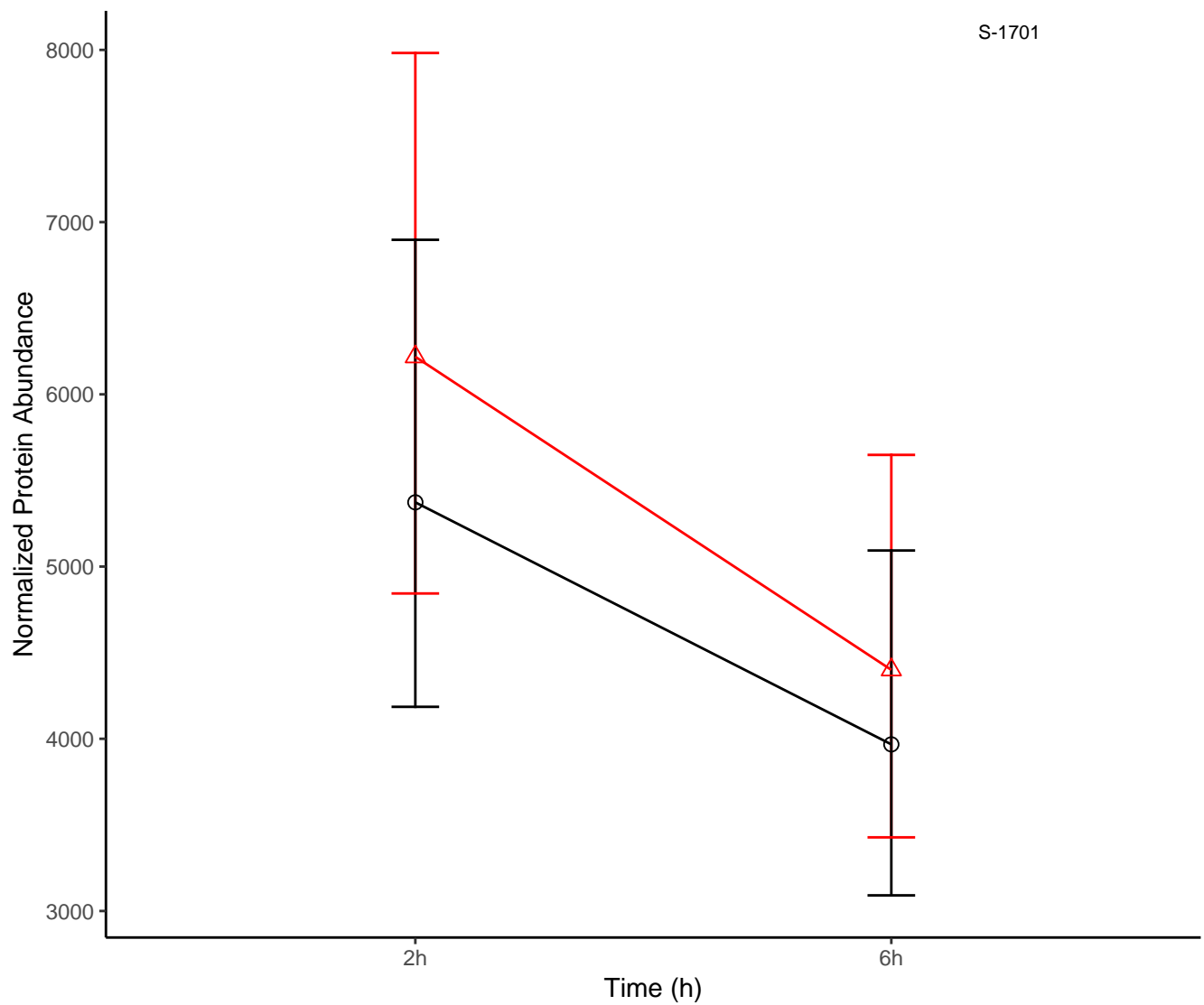


○ TSB-dex

△ TSB

# LYTH\_STAAM

S-1701

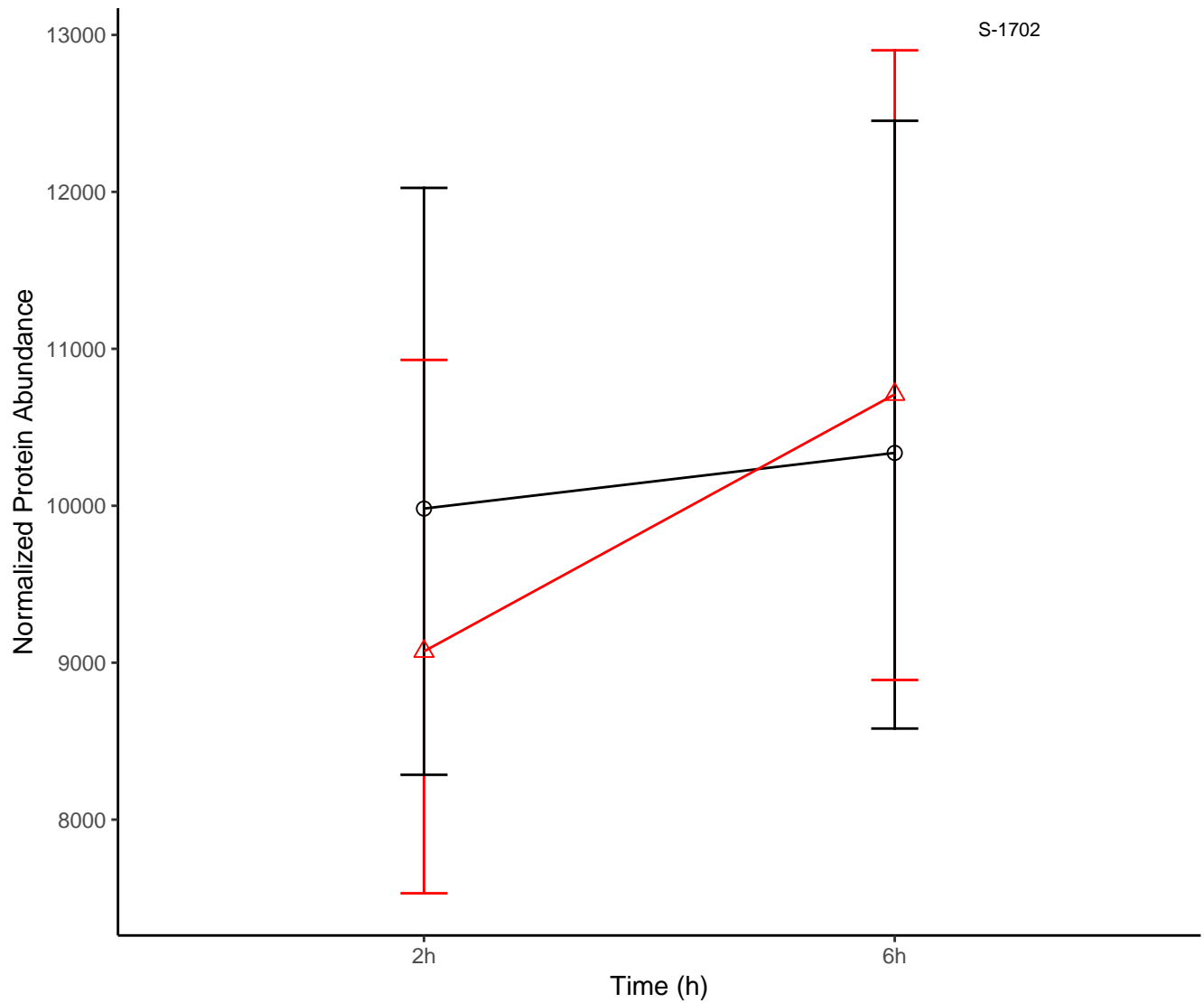


○ TSB-dex

△ TSB

# LYTN\_STAAM

S-1702

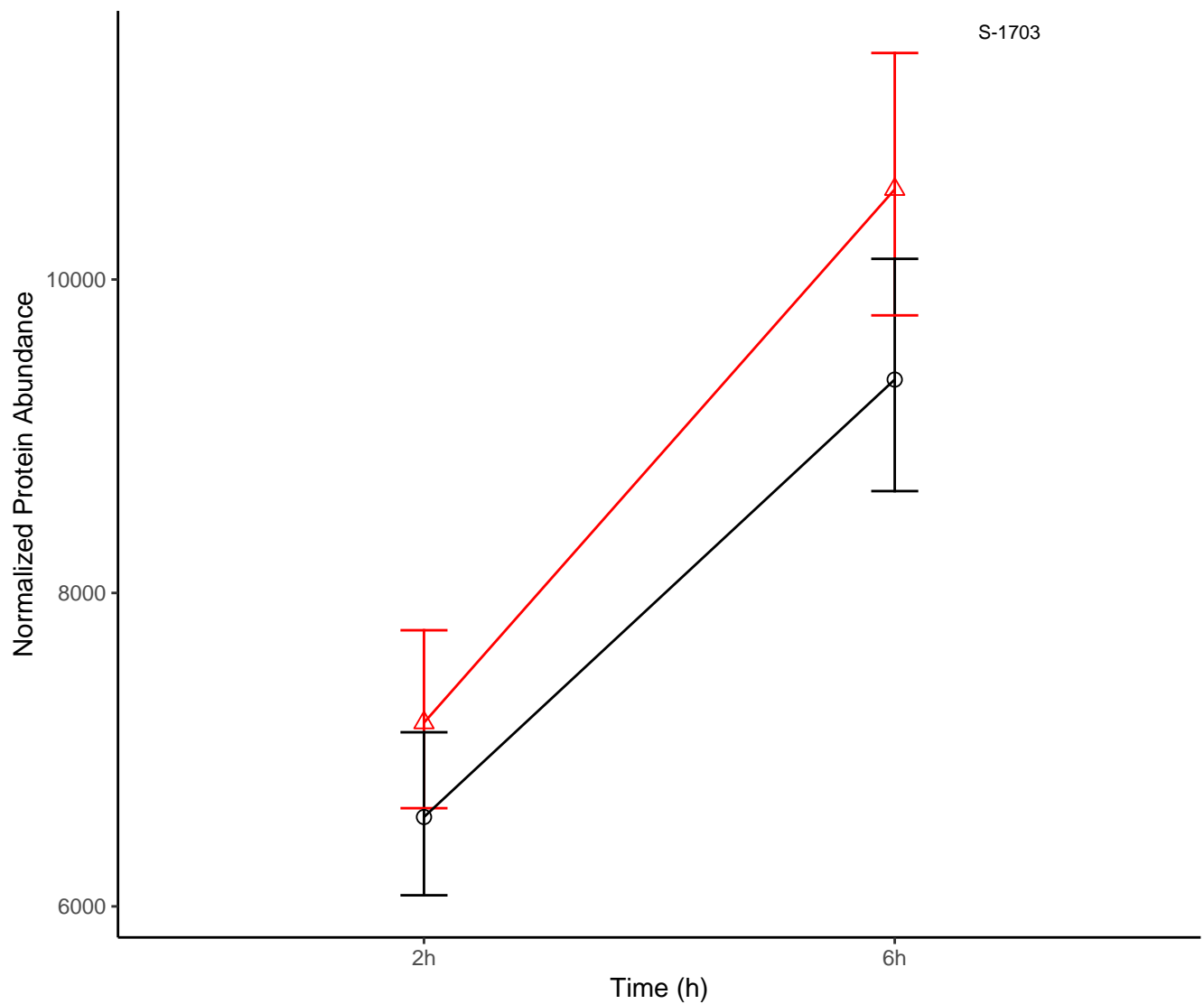


○ TSB-dex

△ TSB

# MAP\_STAAM

S-1703

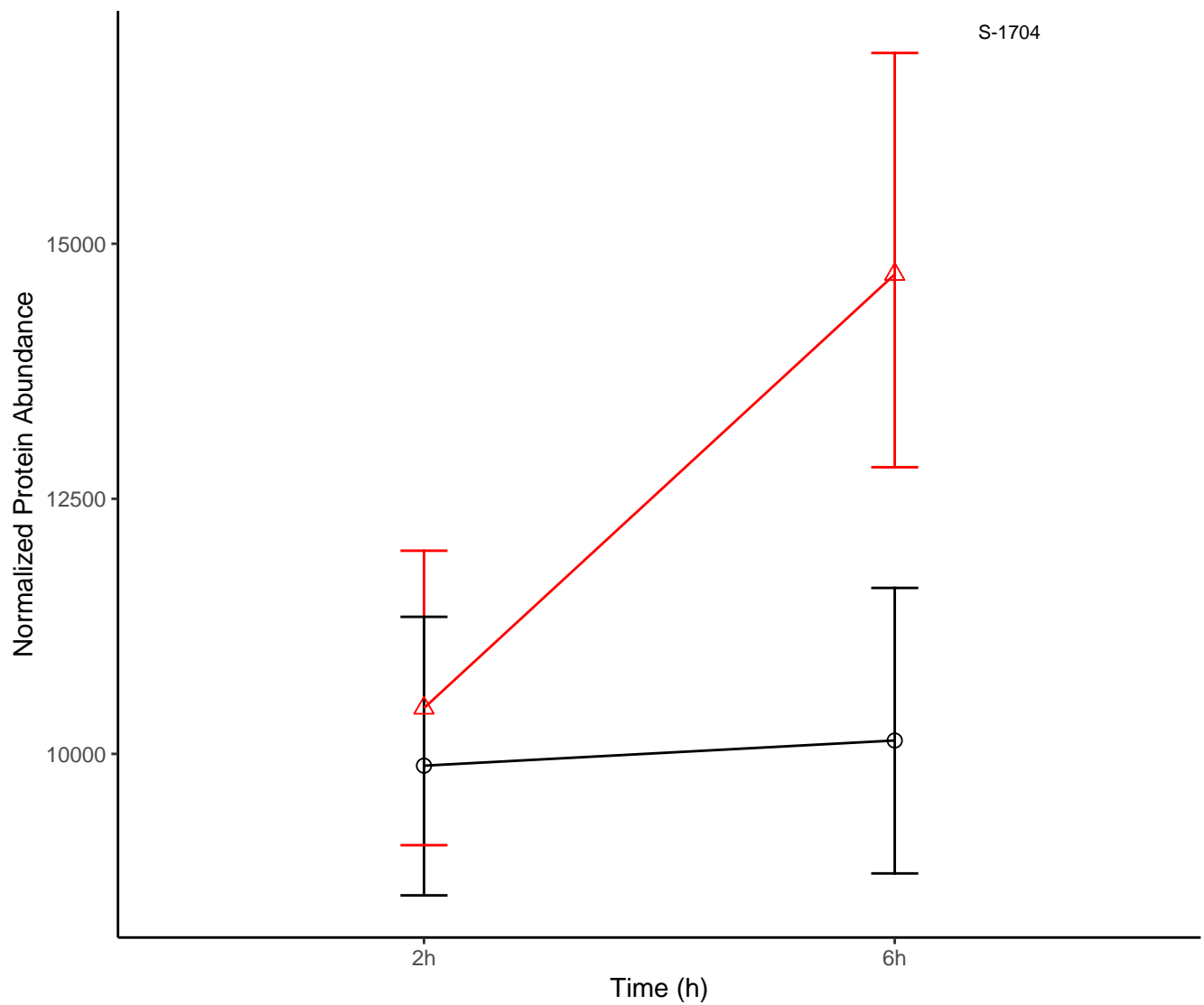


○ TSB-dex

△ TSB

# MAP1\_STAAM

S-1704



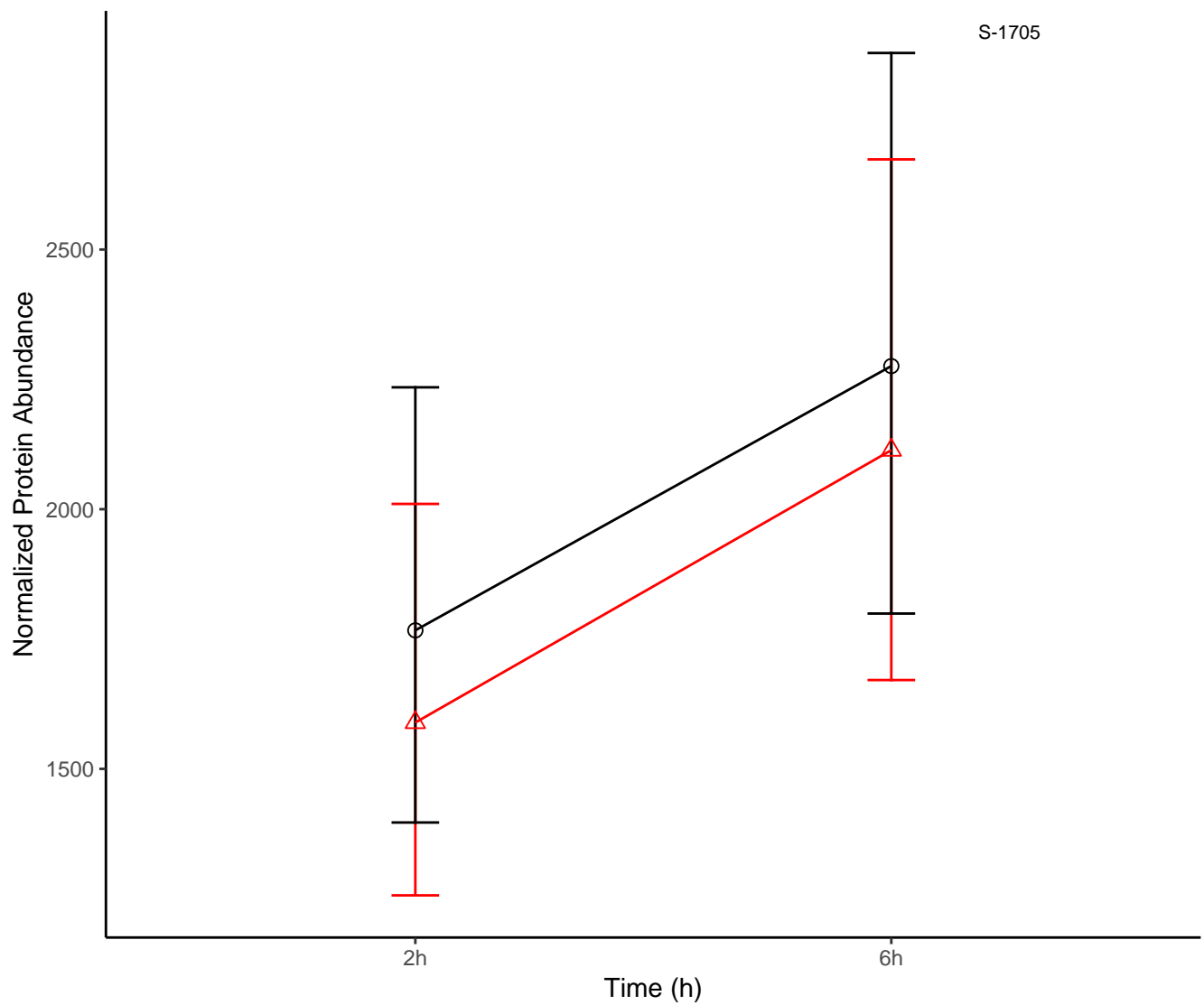
○ TSB-dex

△ TSB



# MAZF\_STAAM

S-1705

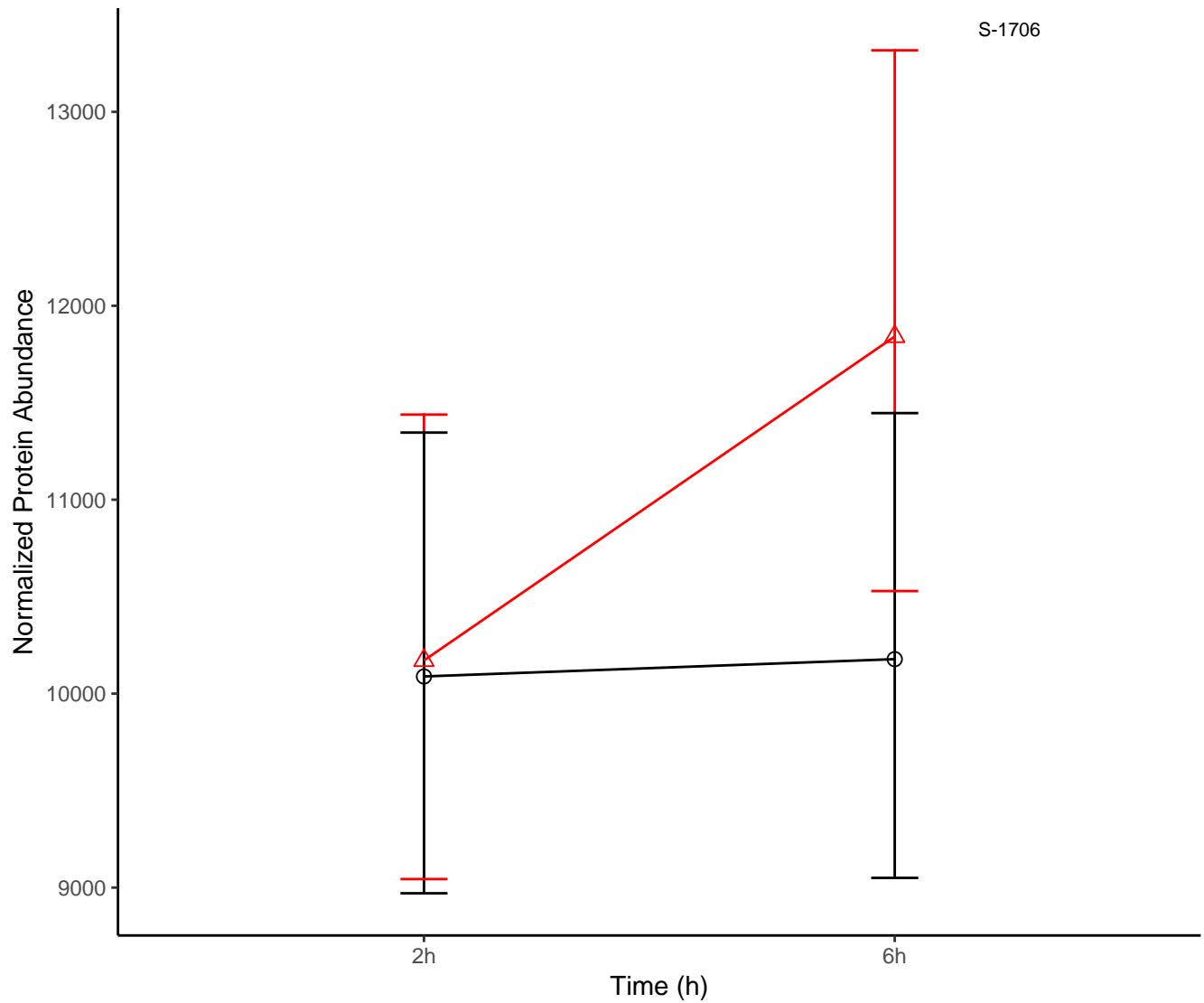


○ TSB-dex

△ TSB

# MENB\_STAAM

S-1706

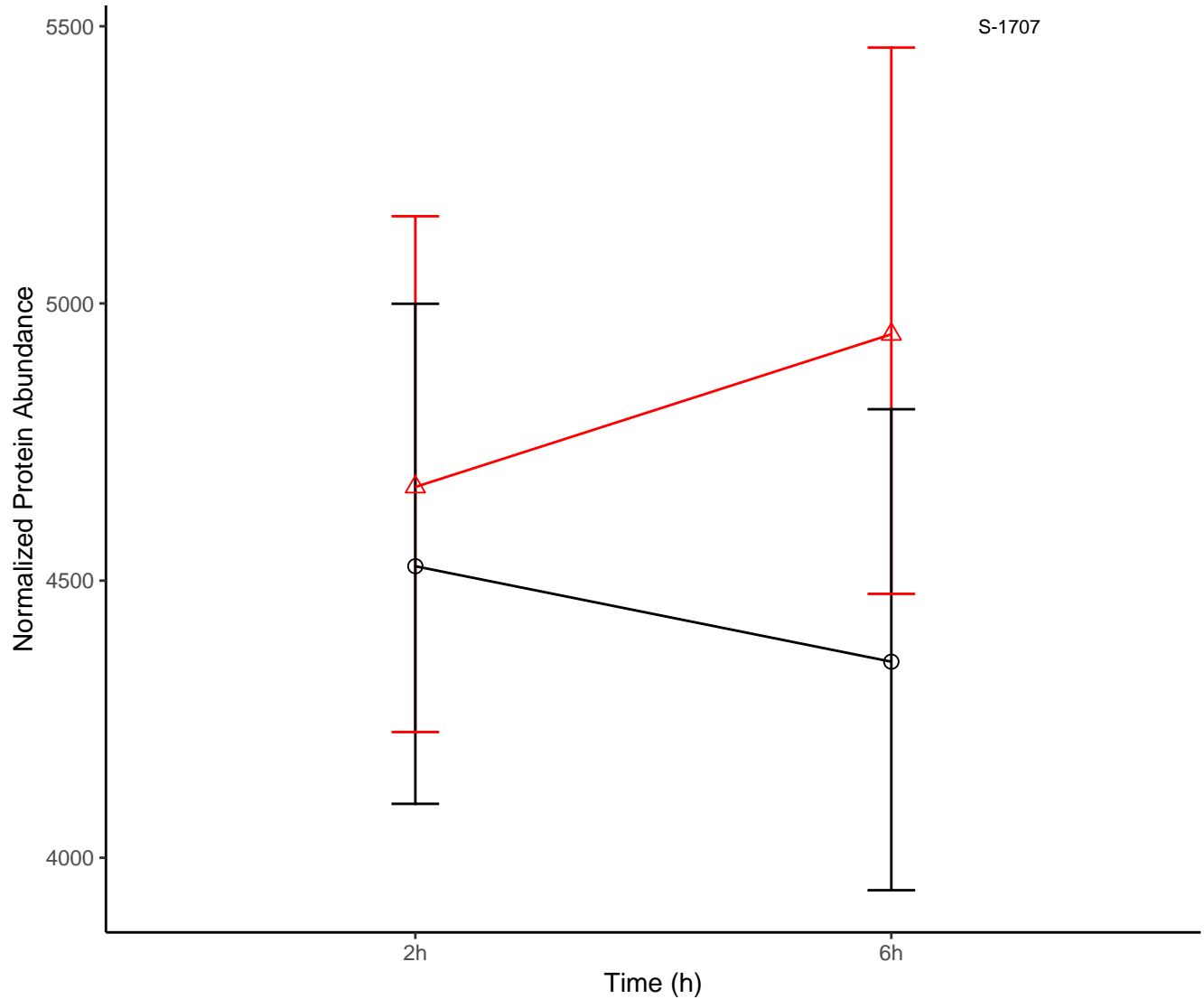


○ TSB-dex

△ TSB

# MENG\_STAAM

S-1707

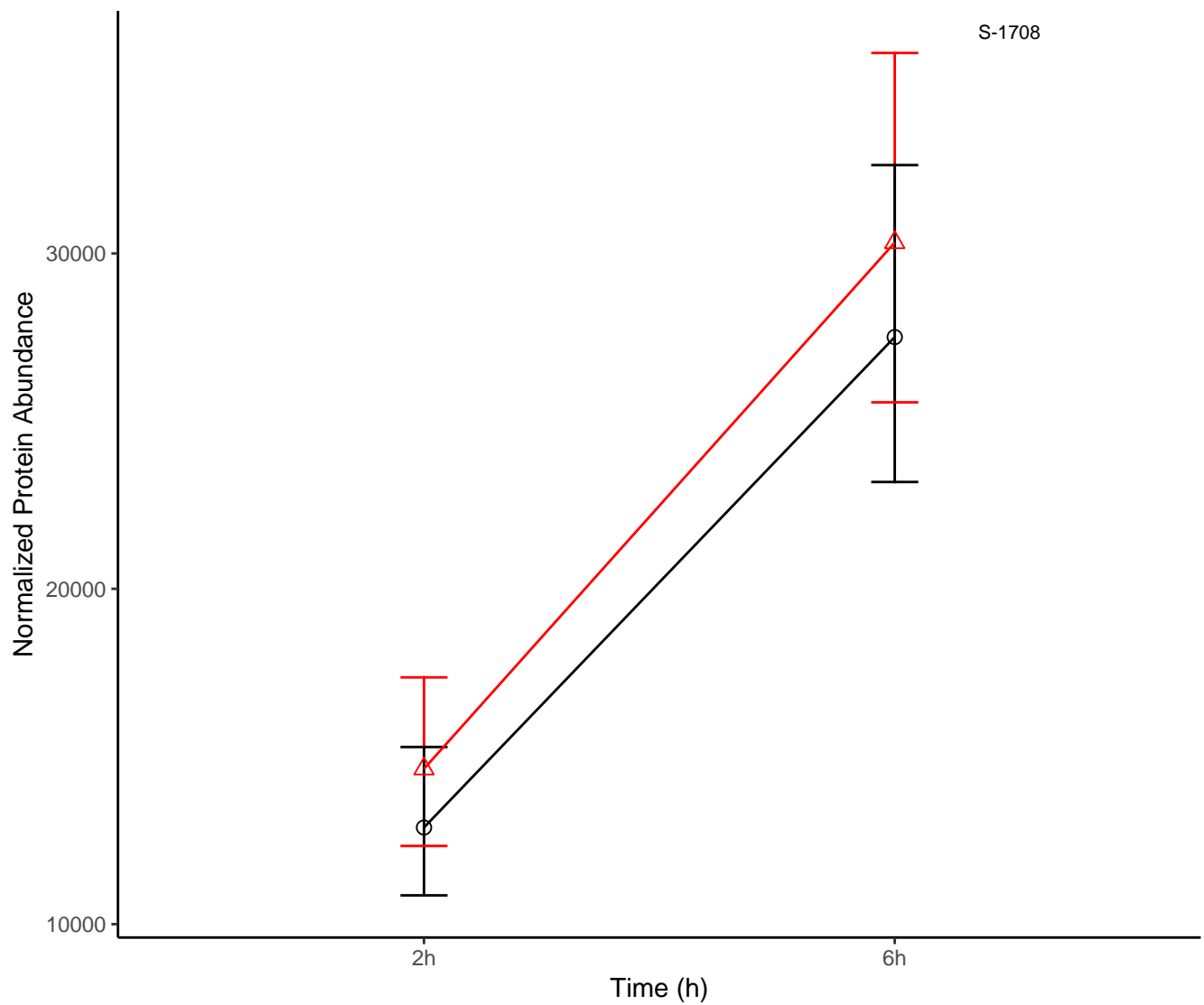


○ TSB-dex

△ TSB

# METK\_STAAM

S-1708

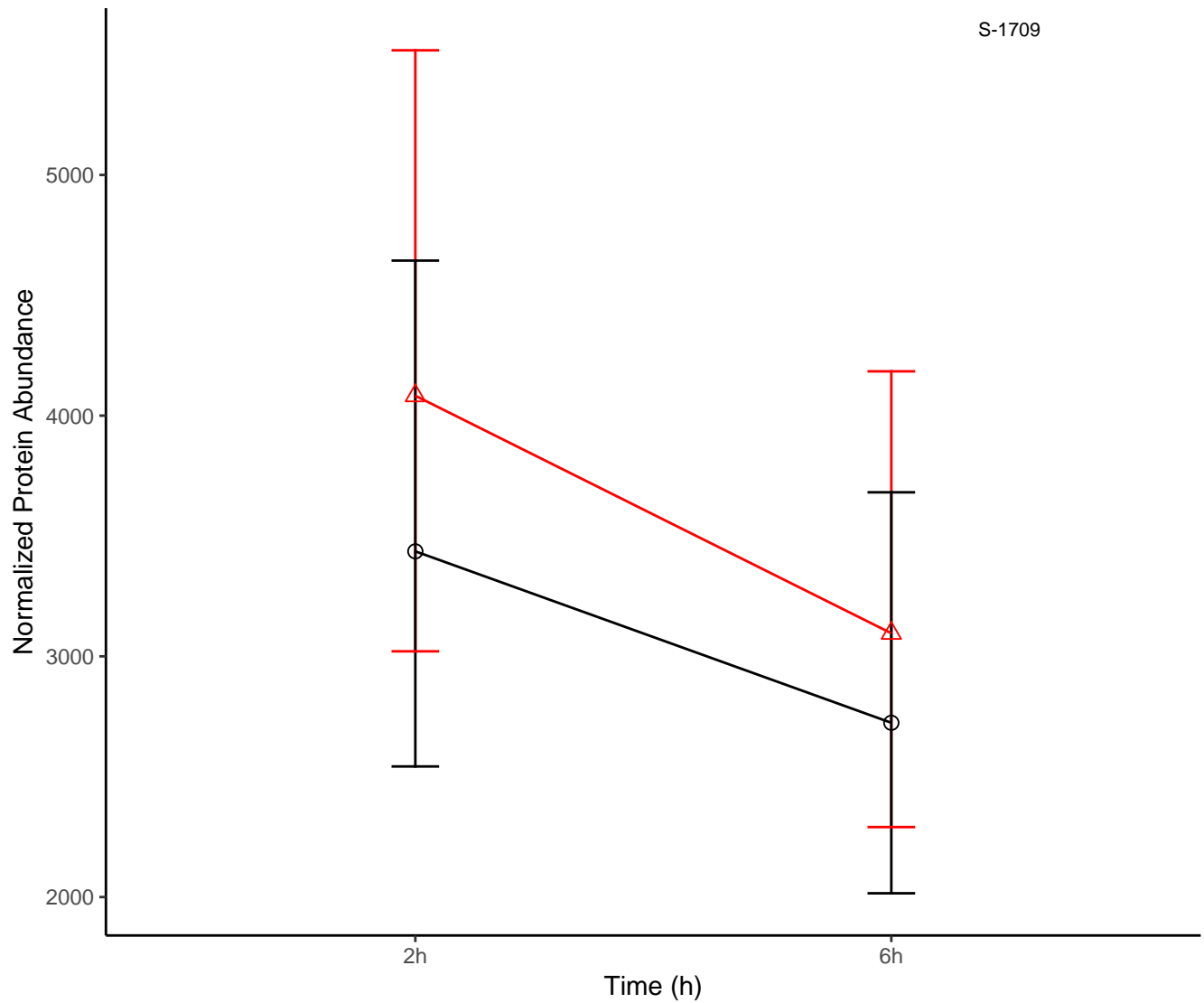


○ TSB-dex

△ TSB

# METN2\_STAAM

S-1709

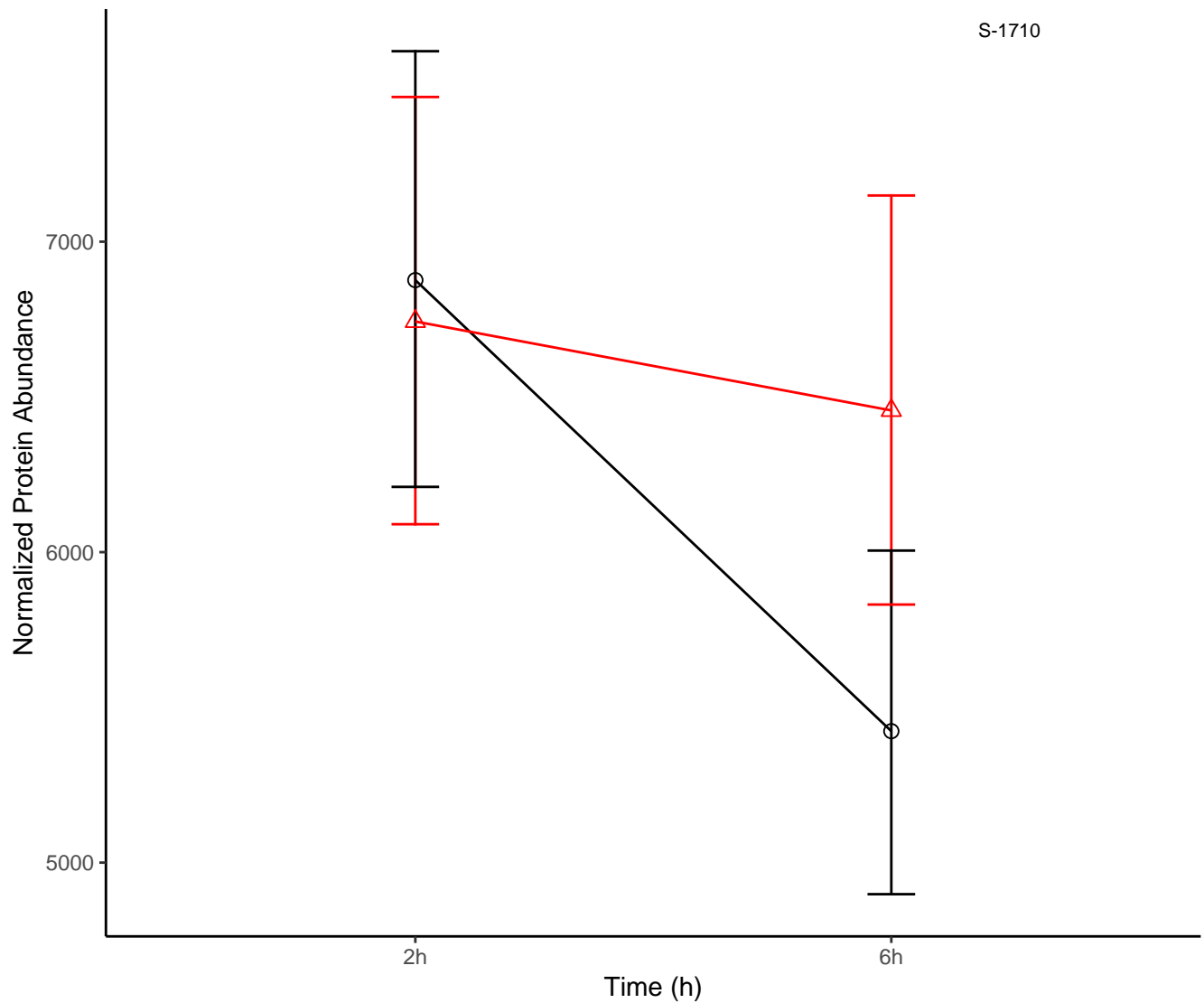


○ TSB-dex

△ TSB

# MGRA\_STAAM

S-1710

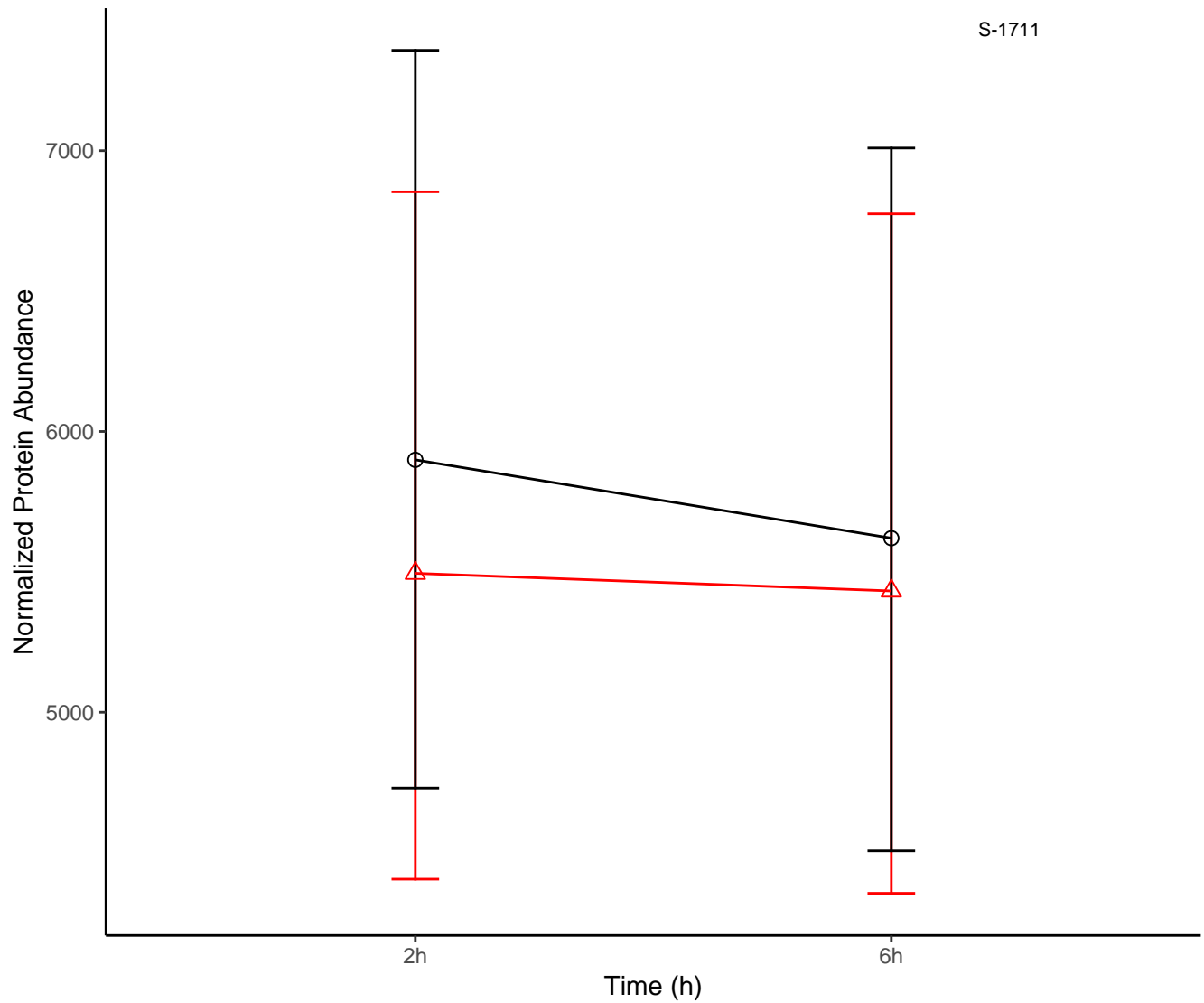


○ TSB-dex

△ TSB

# MIAB\_STAAM

S-1711

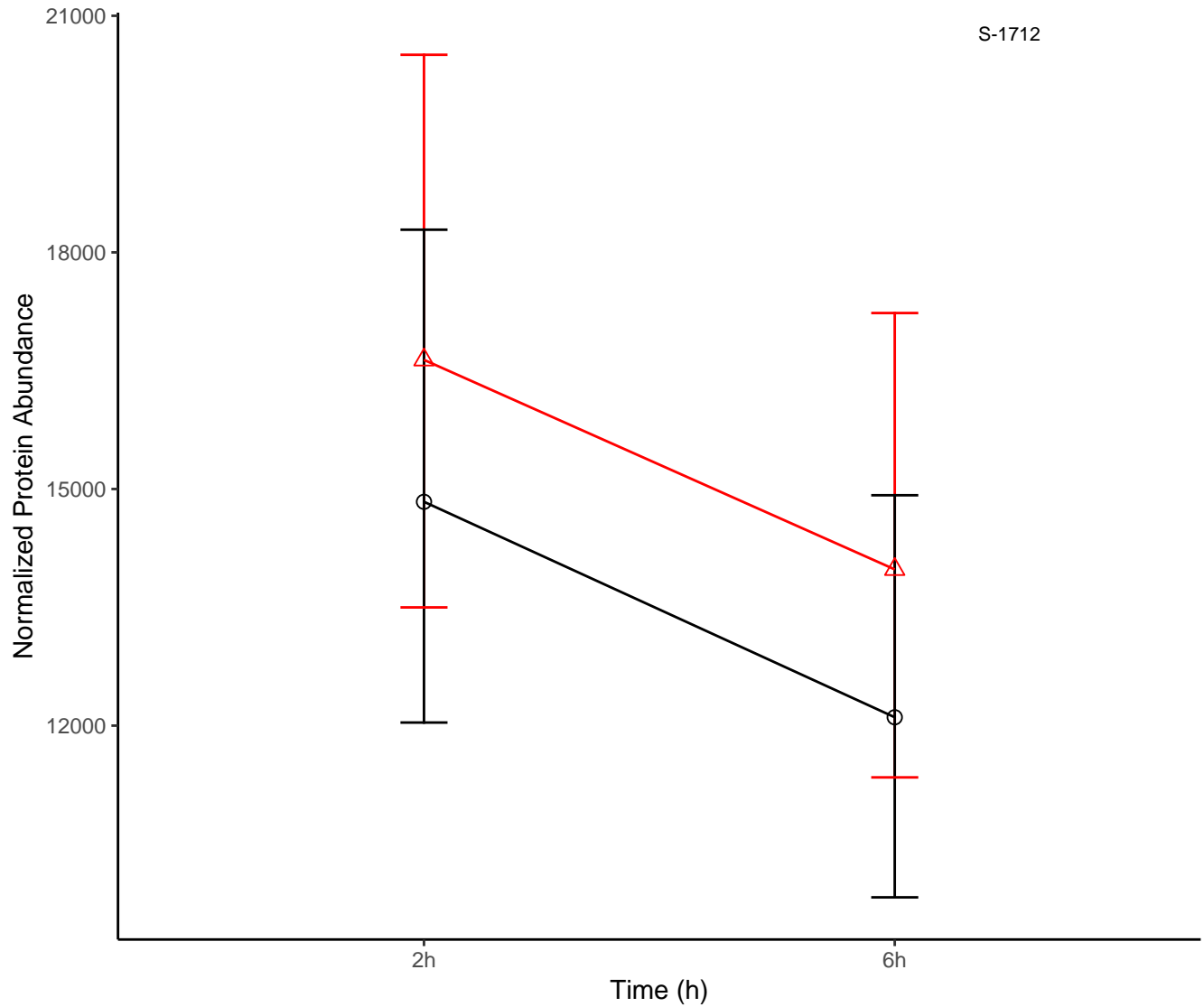


○ TSB-dex

△ TSB

# MNME\_STAAM

S-1712



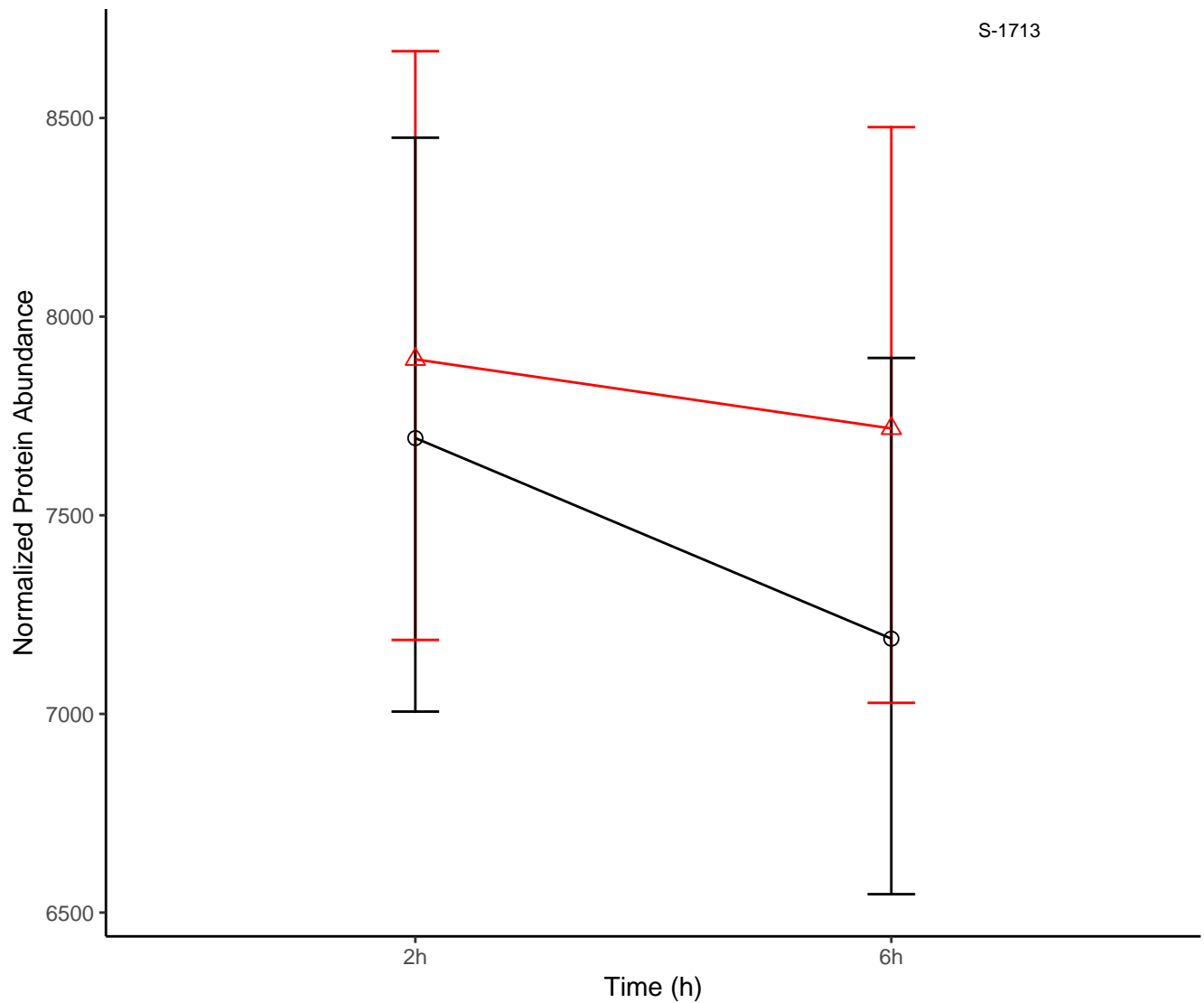
○ TSB-dex

△ TSB



# MNMG\_STAAM

S-1713

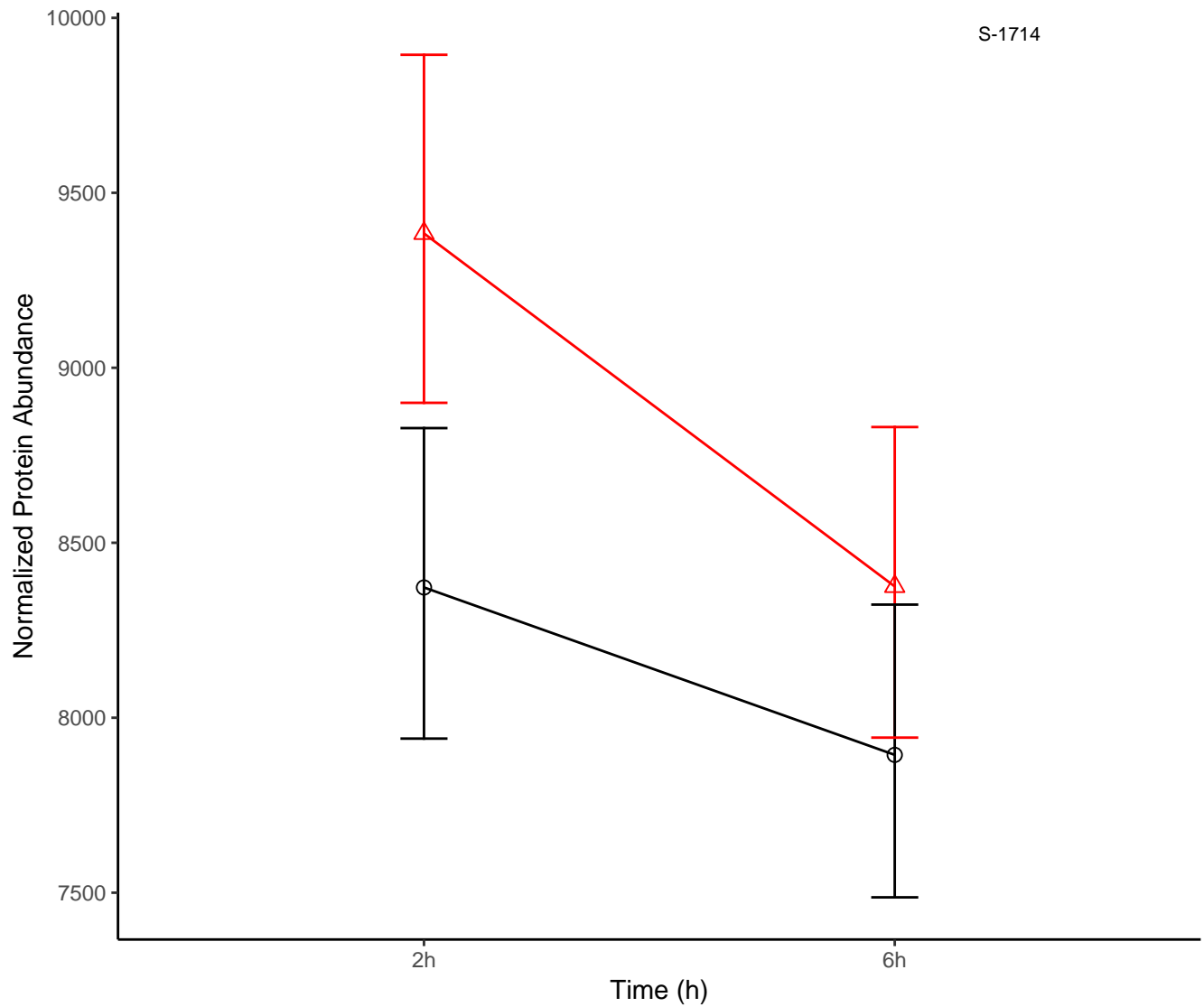


○ TSB-dex

△ TSB

# MOAC\_STAAM

S-1714

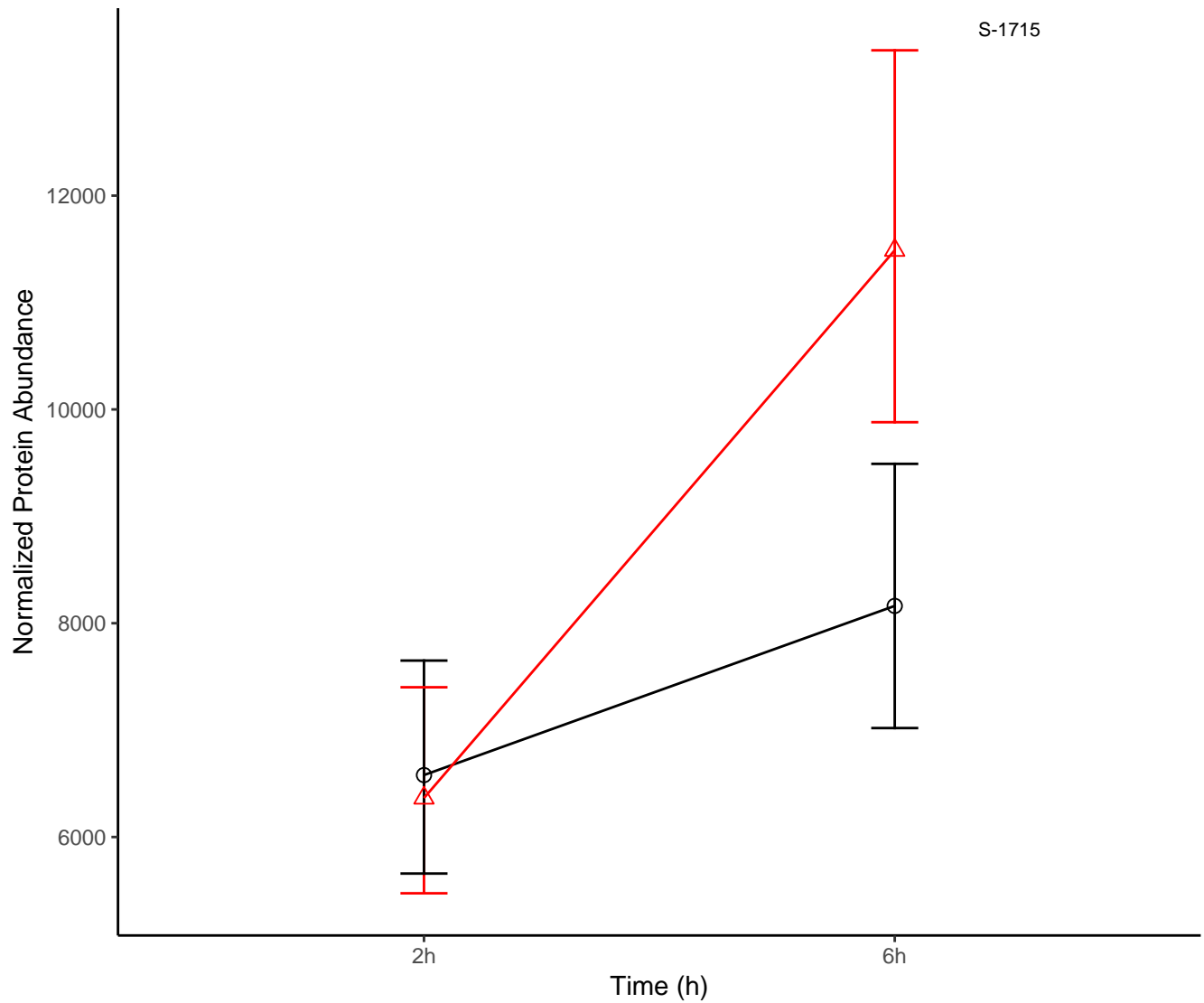


○ TSB-dex

△ TSB

# MOEA\_STAAM

S-1715

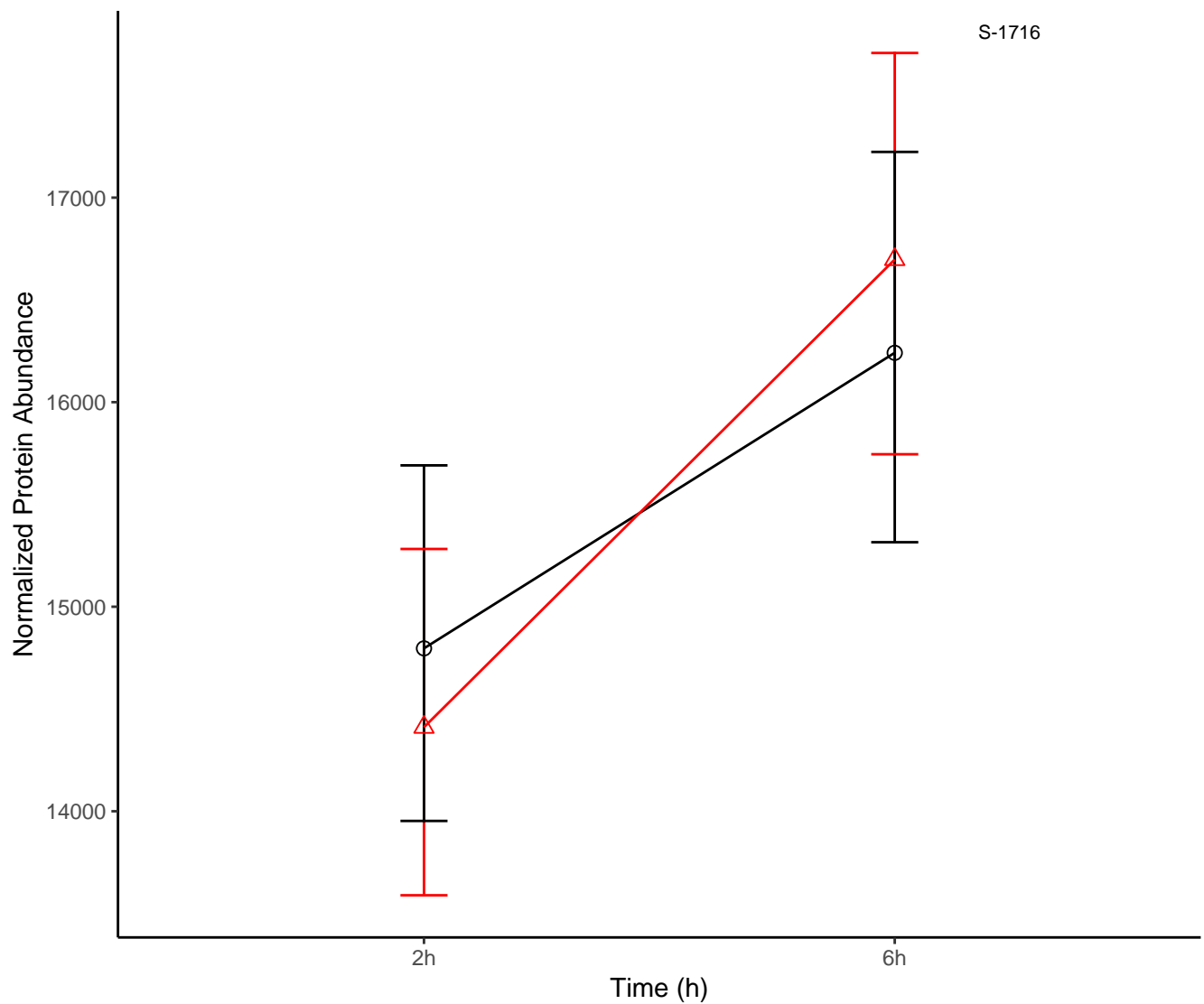


○ TSB-dex

△ TSB

# MQO2\_STAAM

S-1716

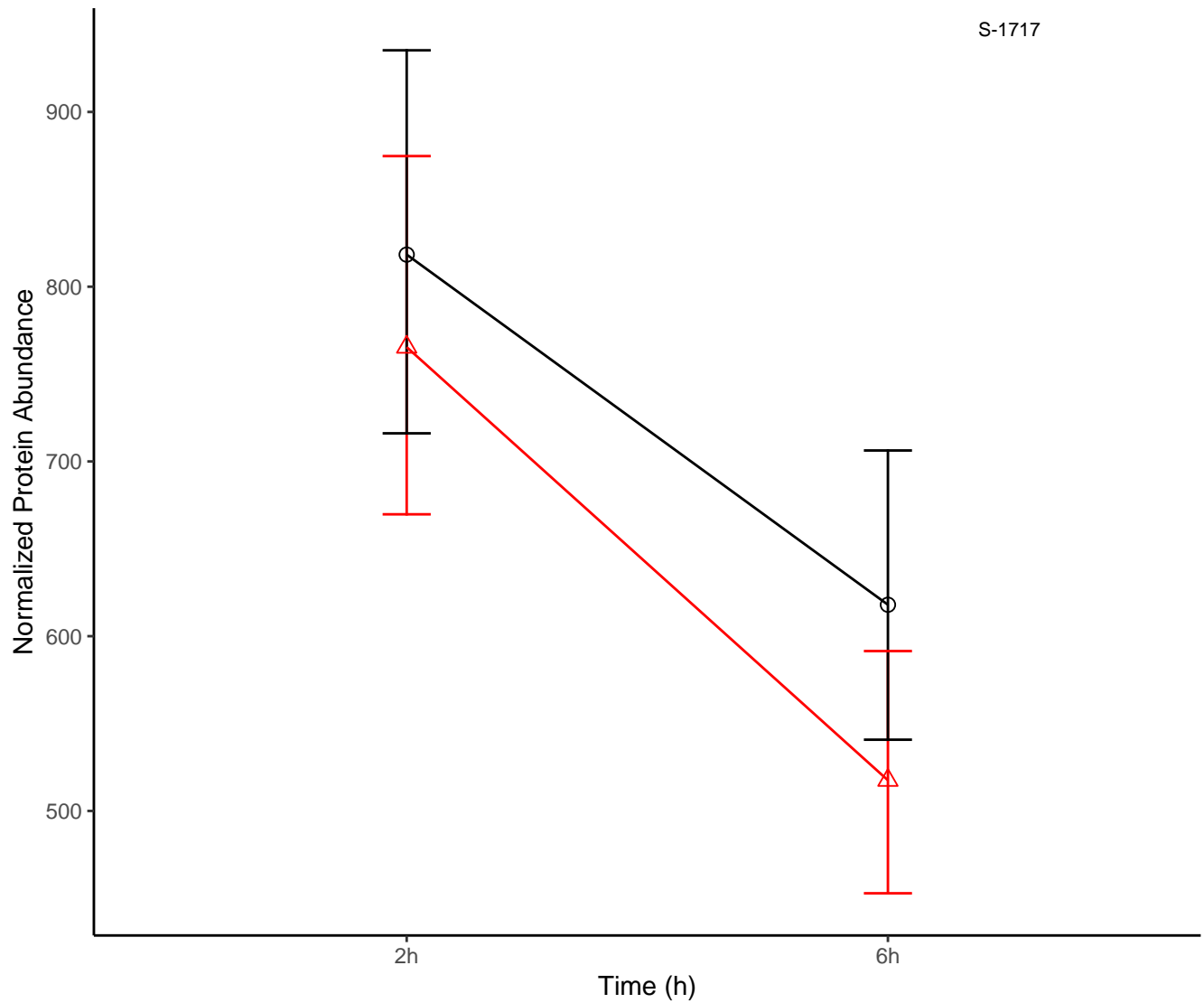


○ TSB-dex

△ TSB

# MSRA1\_STAAM

S-1717

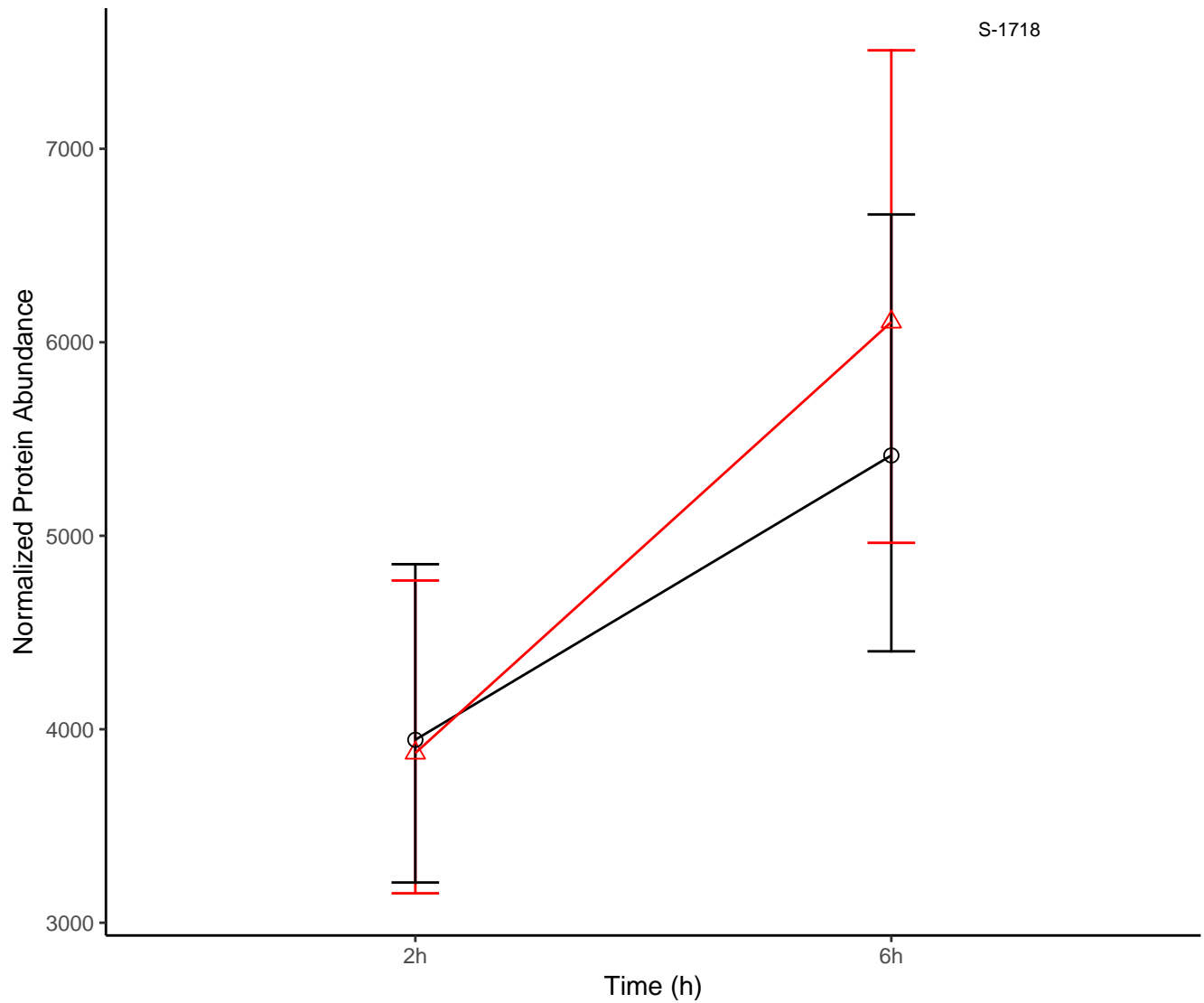


○ TSB-dex

△ TSB

# MSRA2\_STAAM

S-1718

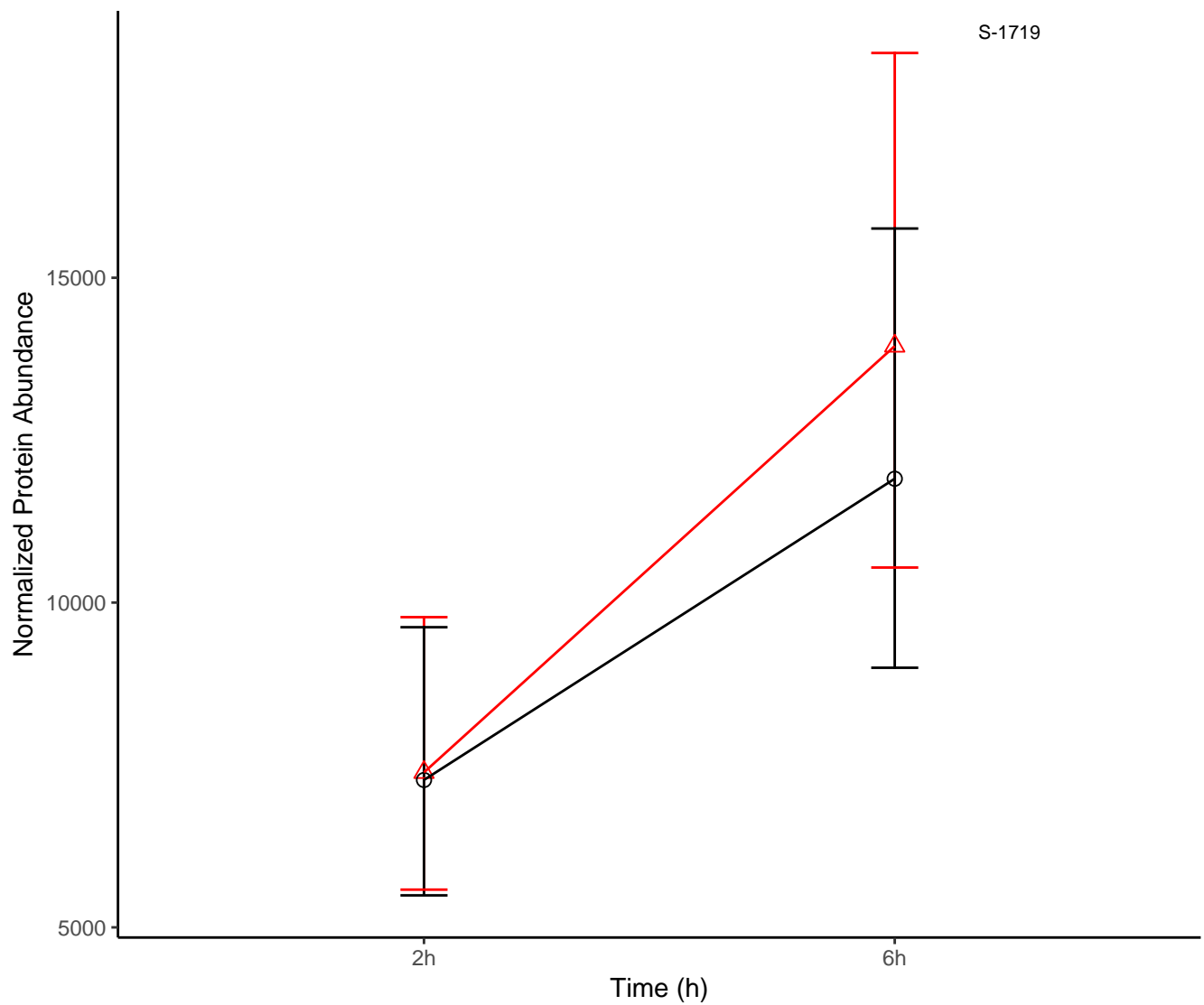


○ TSB-dex

△ TSB

# MSRB\_STAAM

S-1719

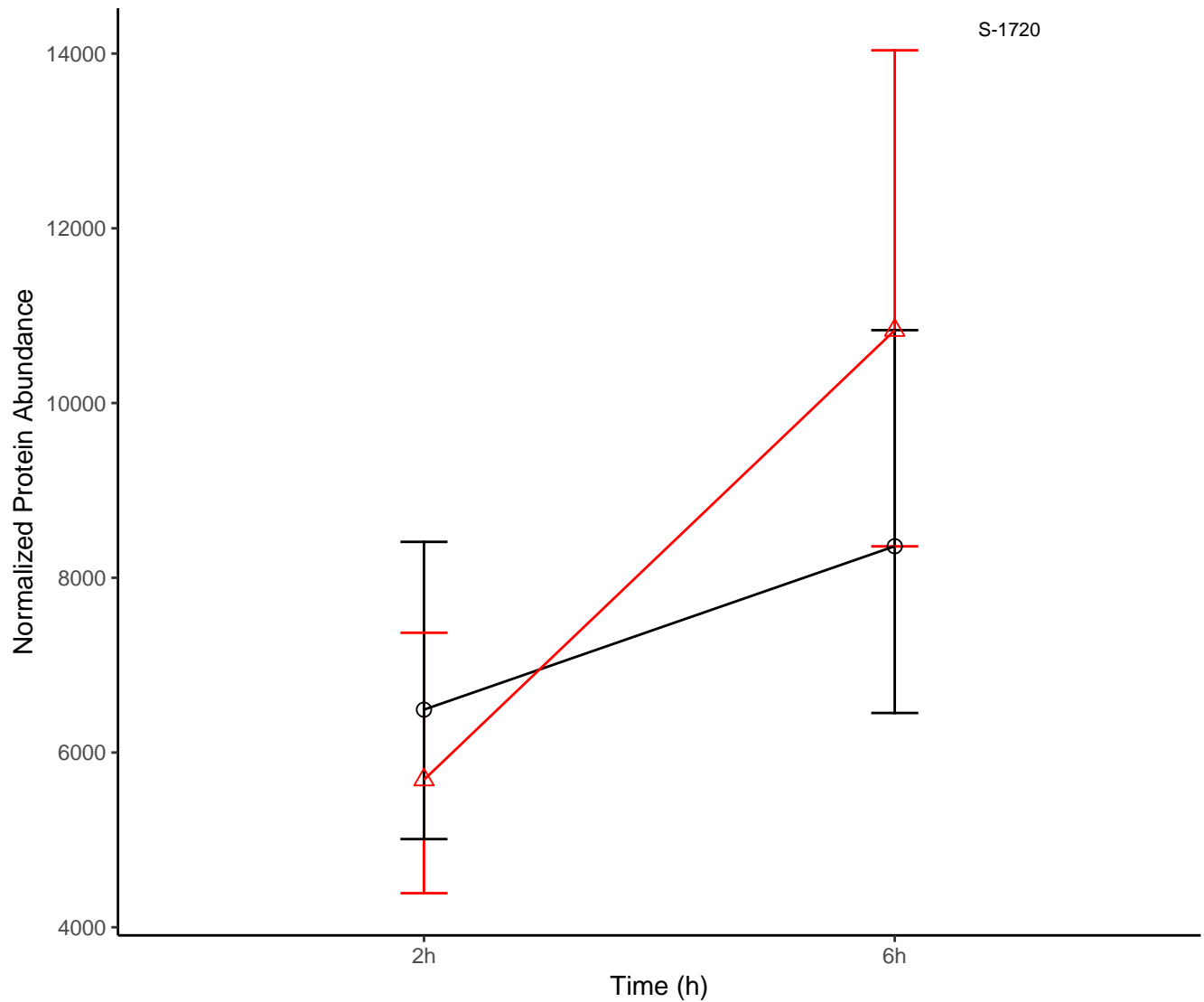


○ TSB-dex

△ TSB

# MTLD\_STAAM

S-1720



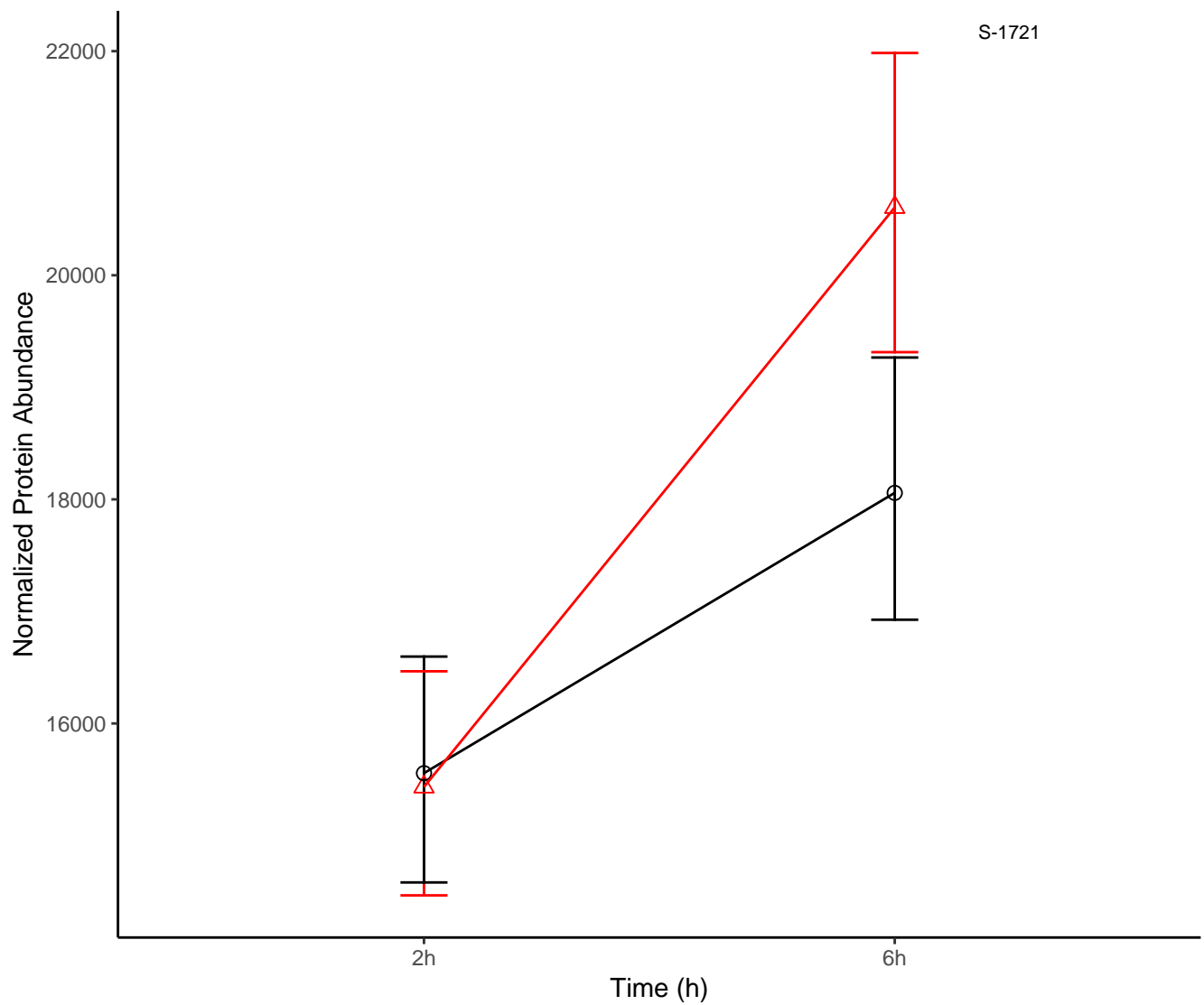
○ TSB-dex

△ TSB



# MTNN\_STAAM

S-1721

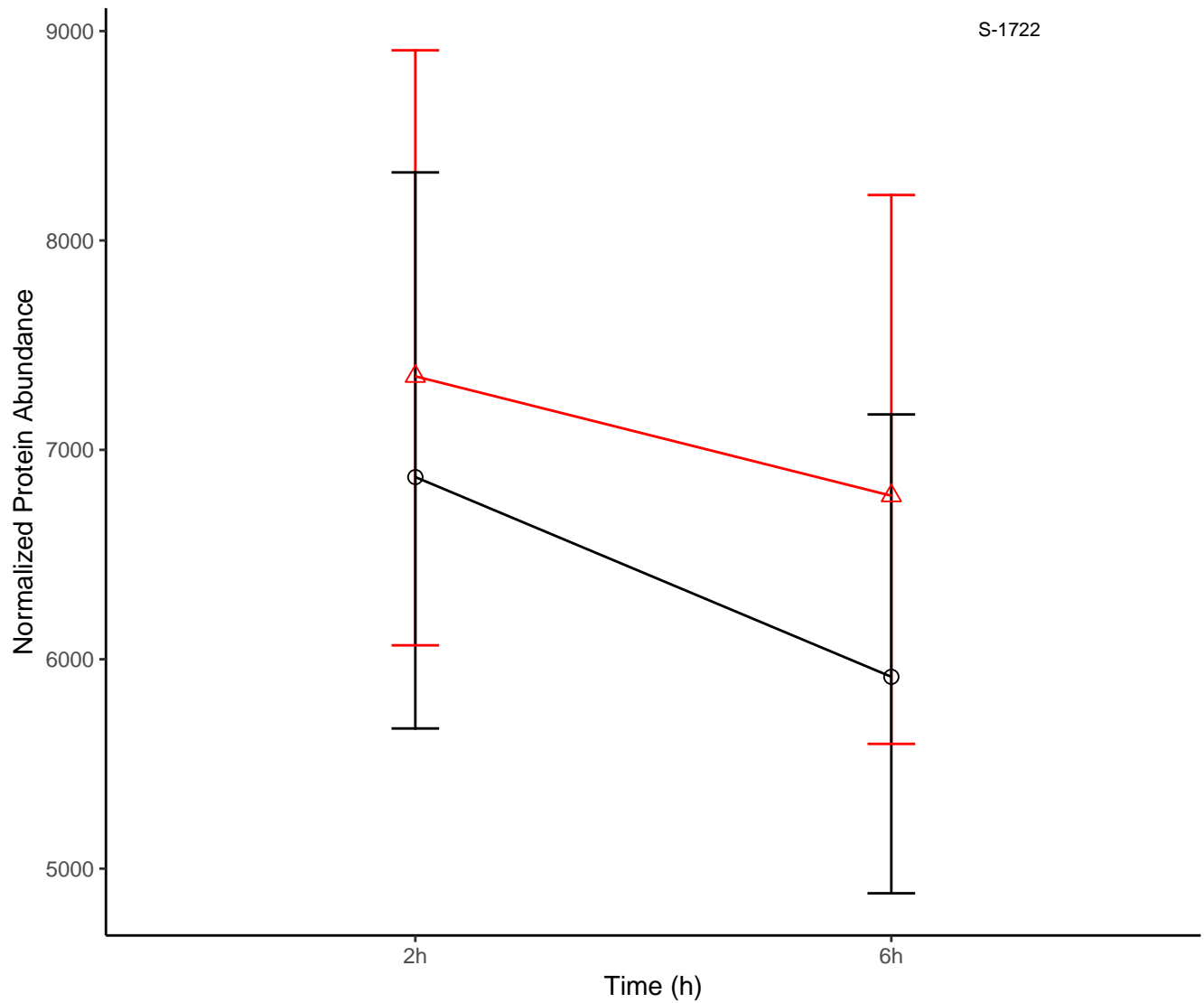


○ TSB-dex

△ TSB

# MURA1\_STAAM

S-1722

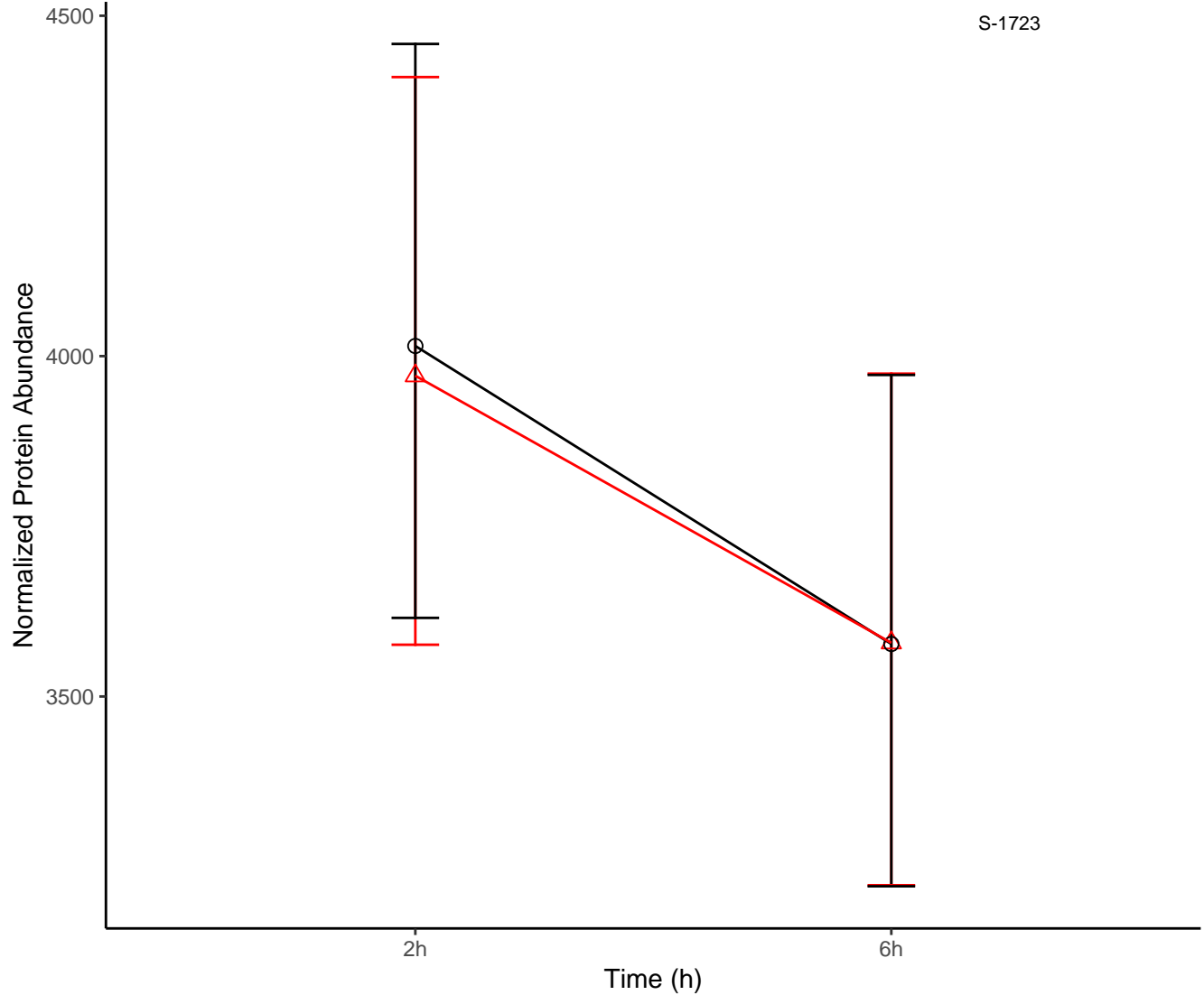


○ TSB-dex

△ TSB

# MURA2\_STAAM

S-1723

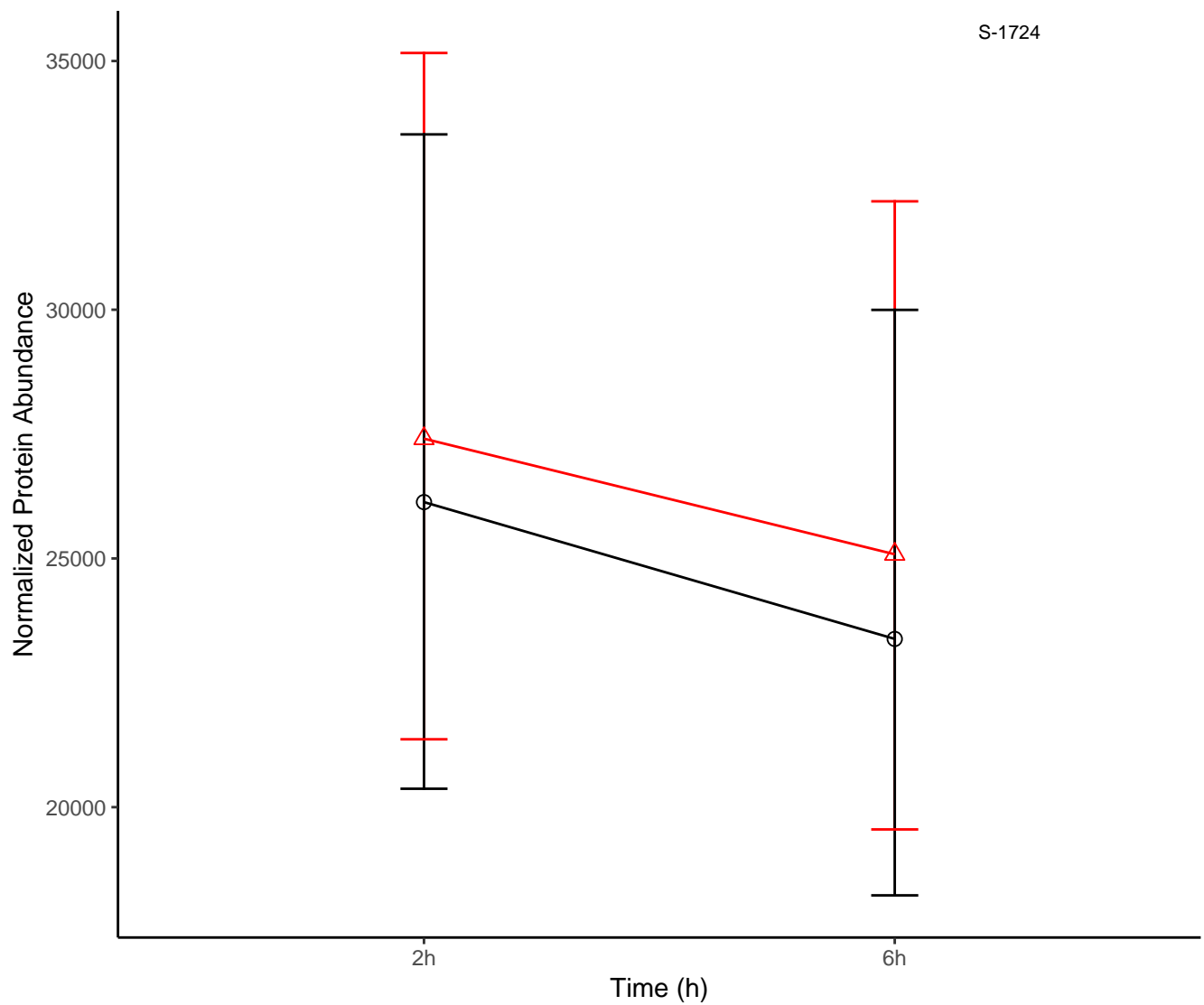


○ TSB-dex

△ TSB

# MURC\_STAAM

S-1724

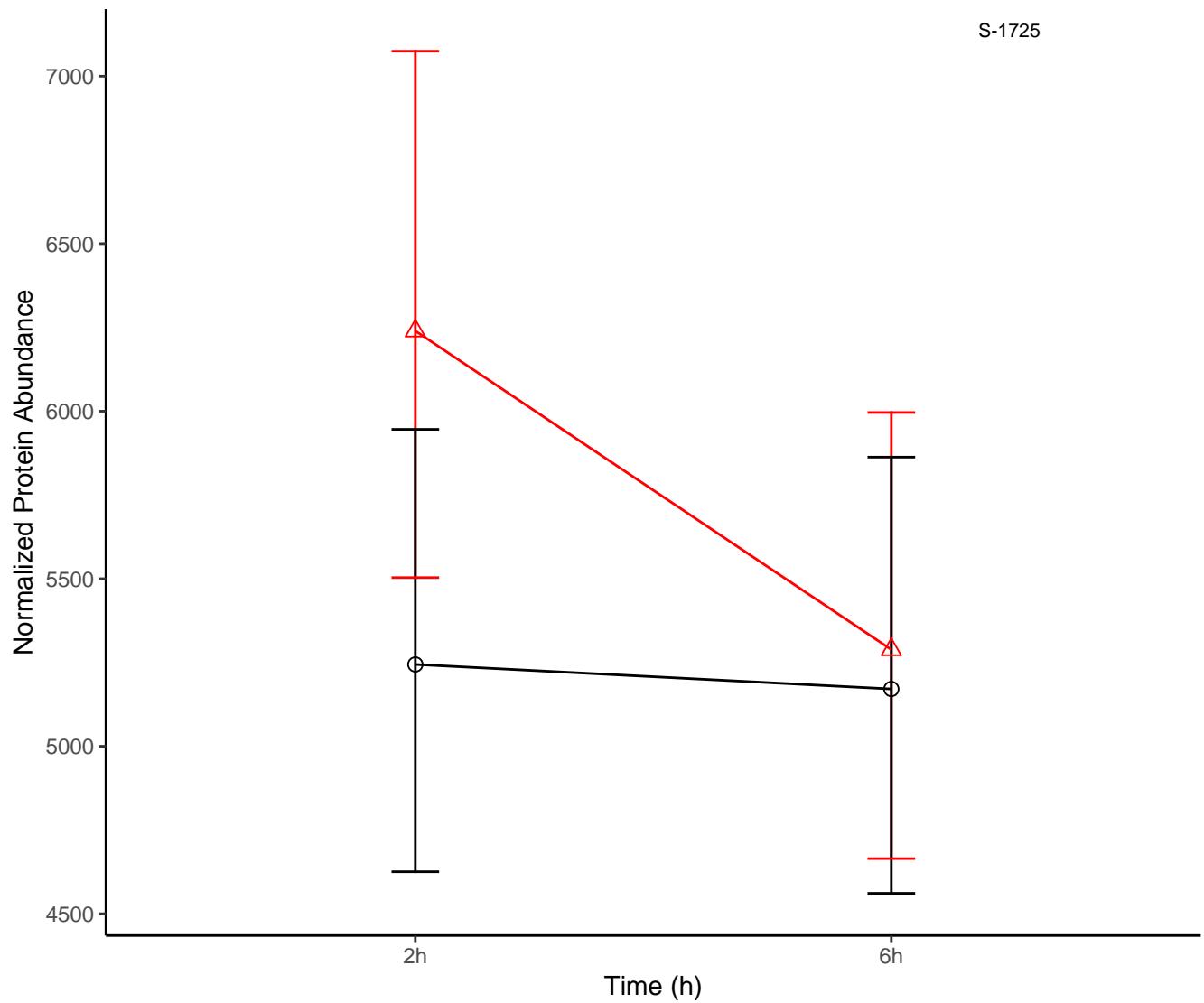


○ TSB-dex

△ TSB

# MURD\_STAAM

S-1725

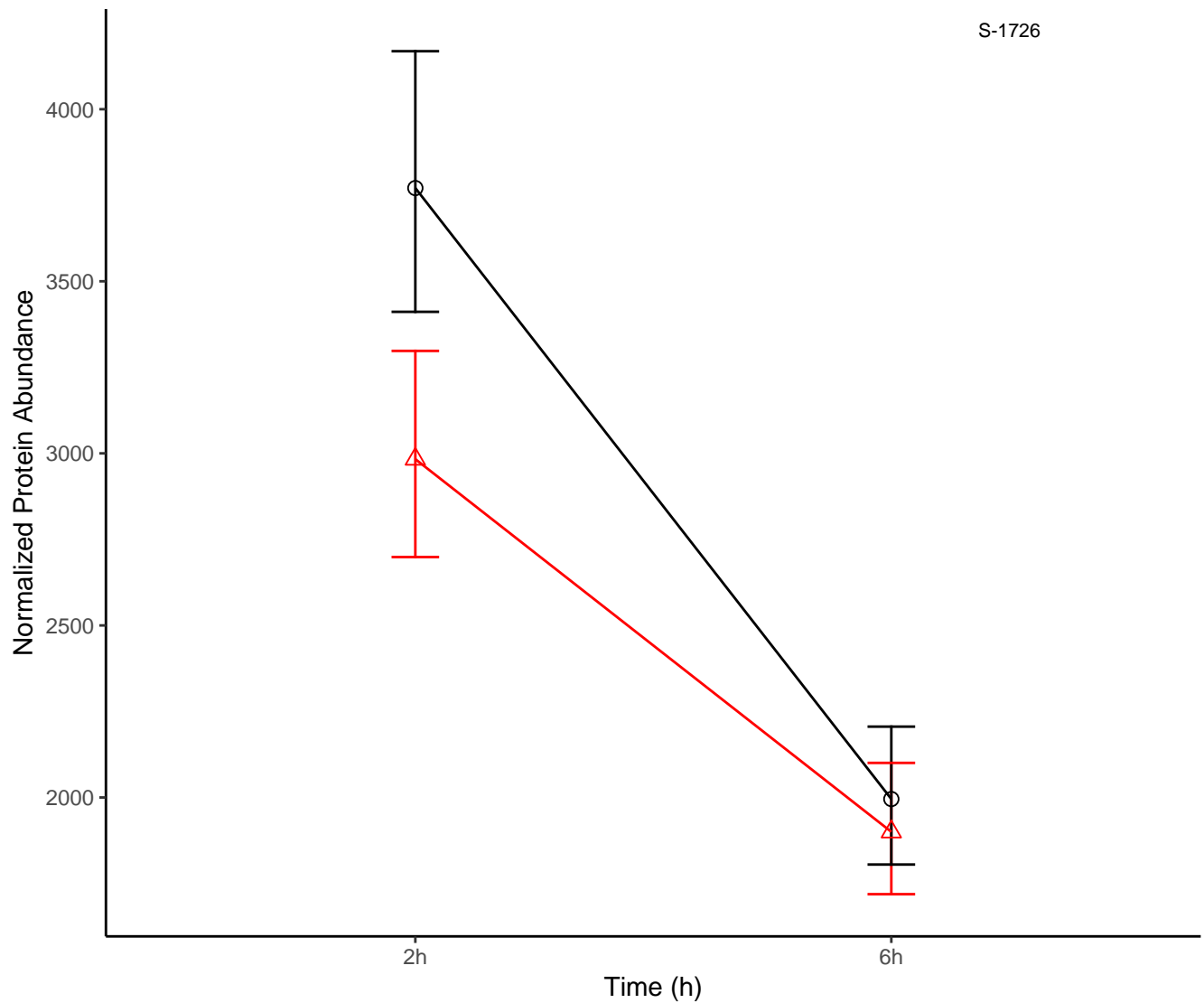


○ TSB-dex

△ TSB

# MURE\_STAAM

S-1726

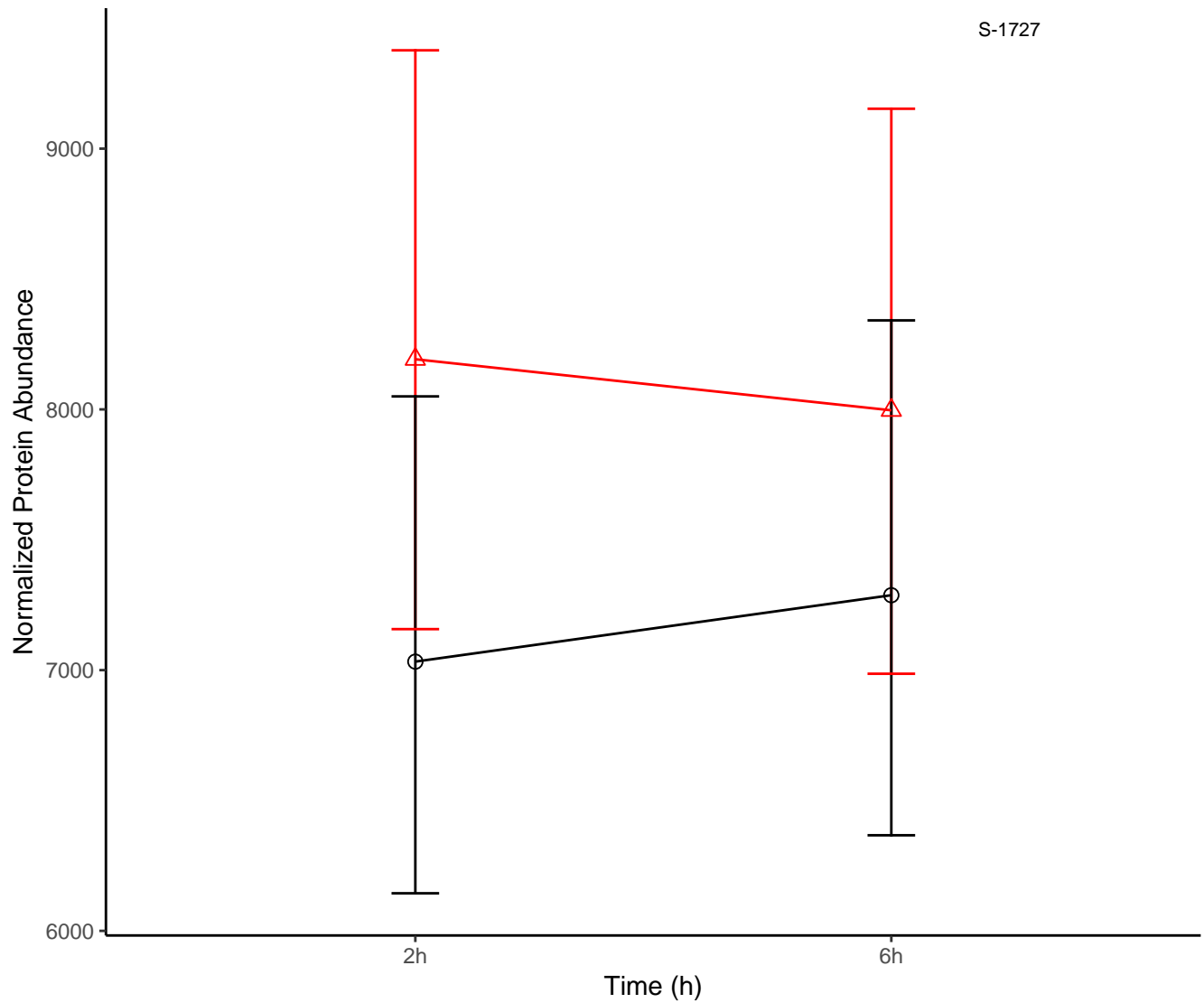


○ TSB-dex

△ TSB

# MURG\_STAAM

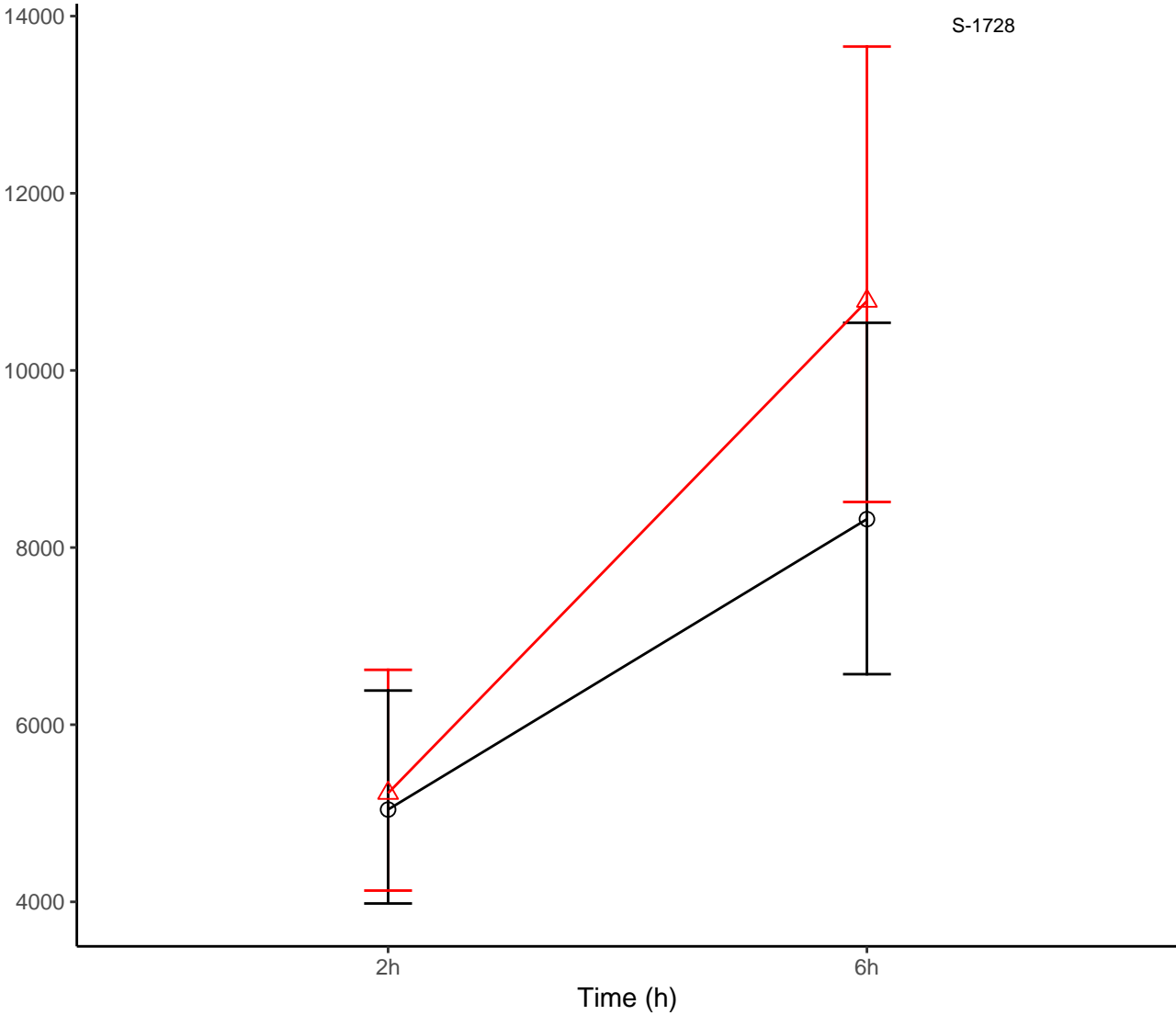
S-1727



○ TSB-dex

△ TSB

# MURI\_STAAM



S-1728

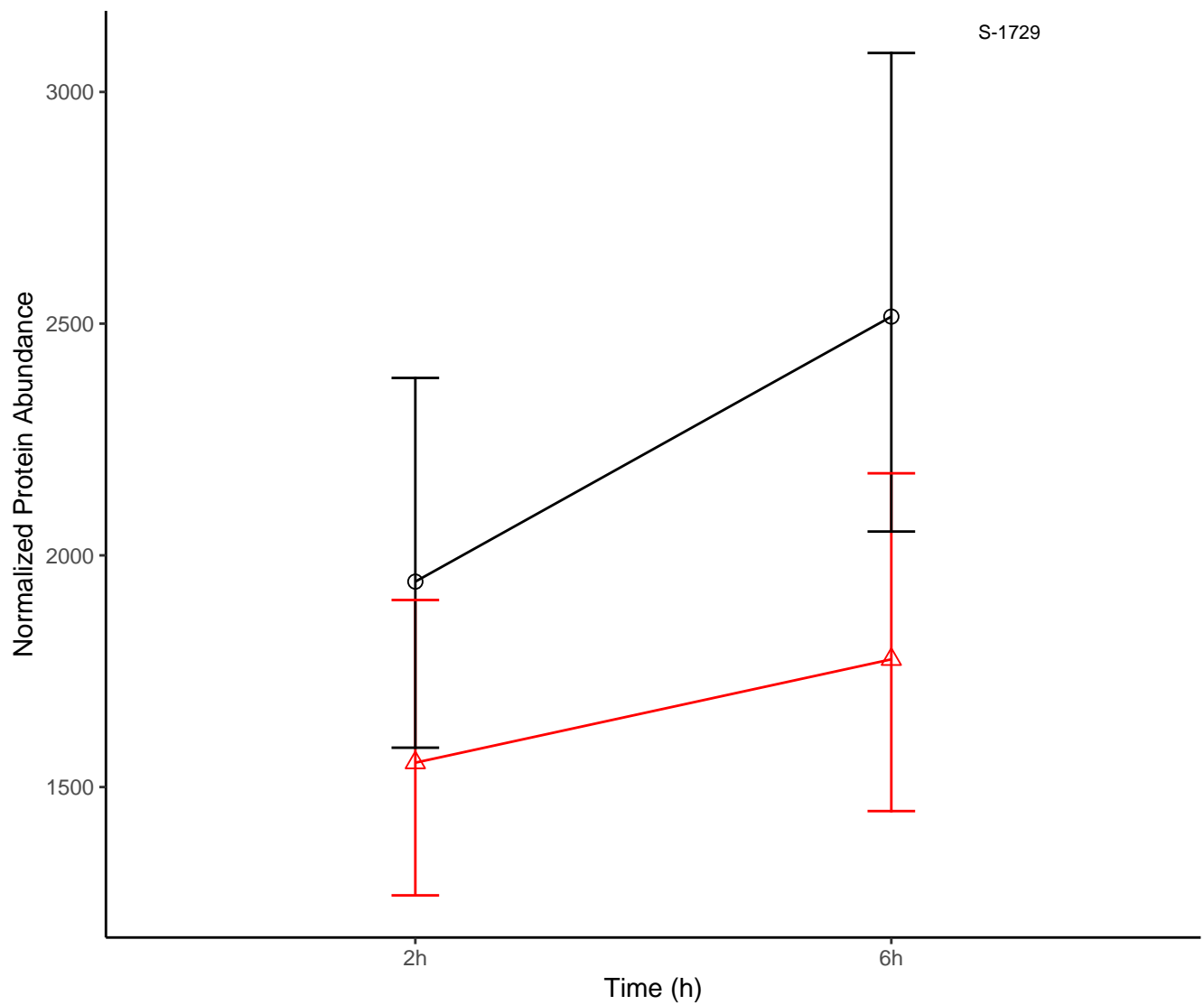
○ TSB-dex

△ TSB



# MUTS\_STAAM

S-1729

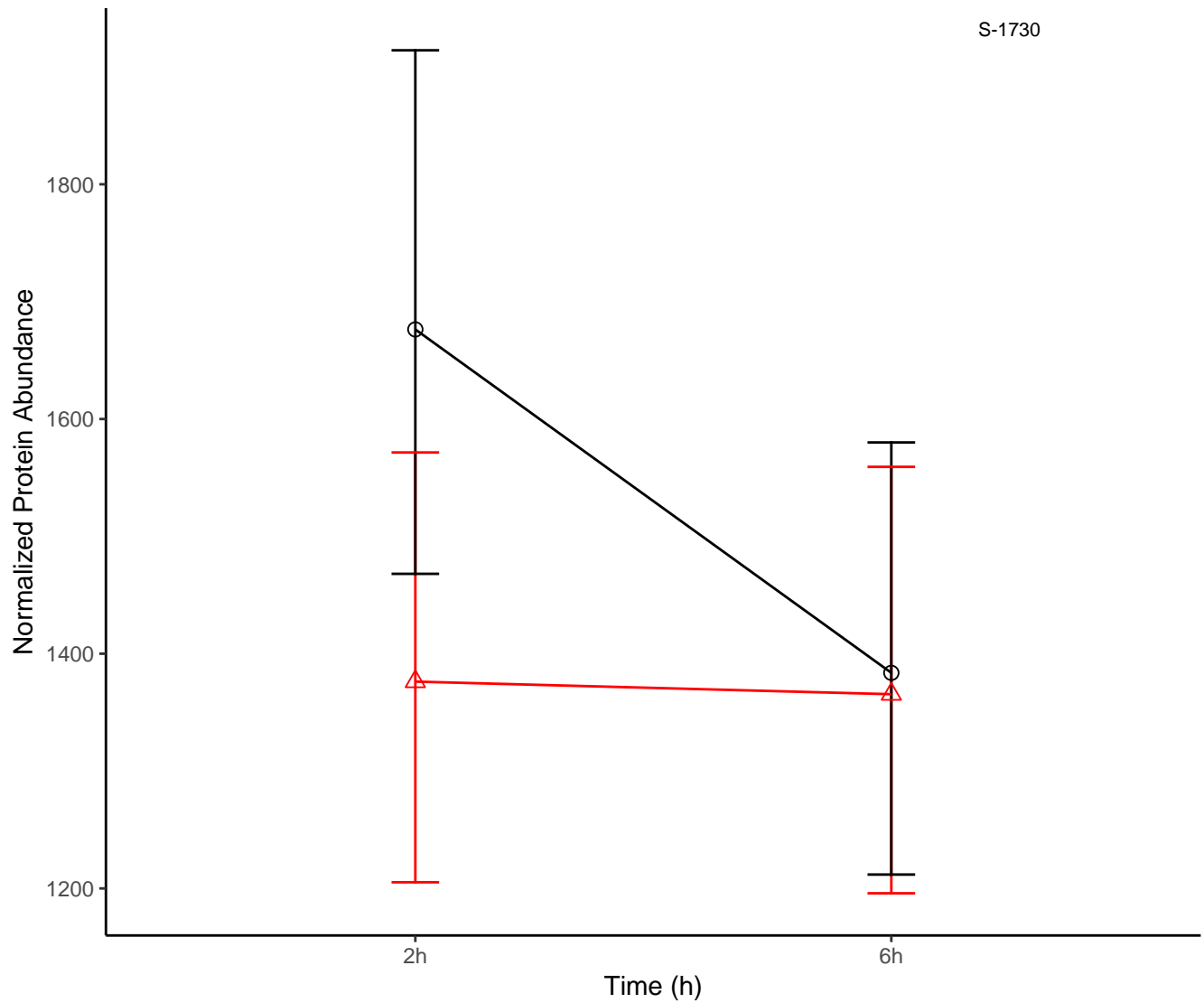


○ TSB-dex

△ TSB

# NADD\_STAAM

S-1730

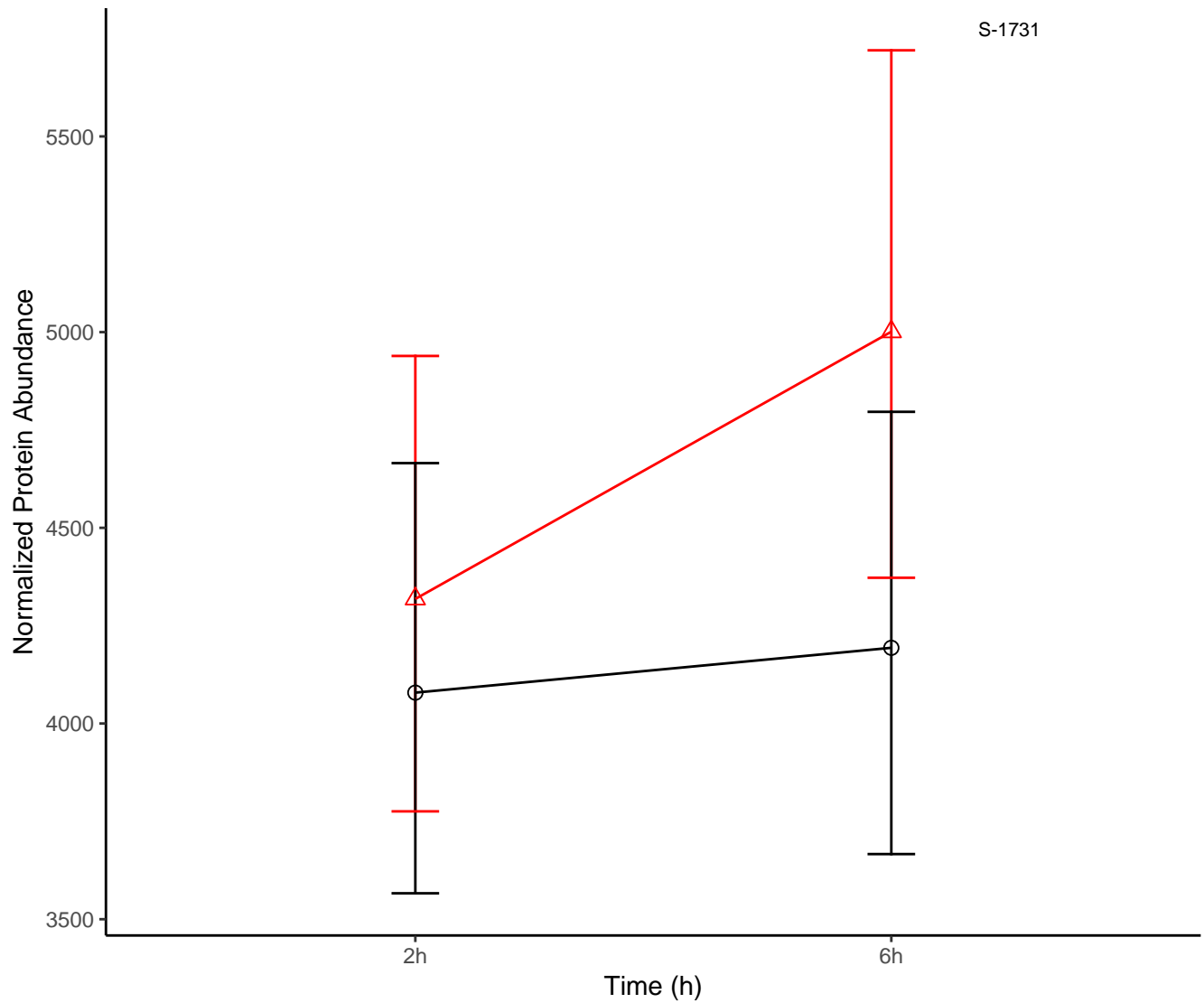


○ TSB-dex

△ TSB

# NADE\_STAAM

S-1731

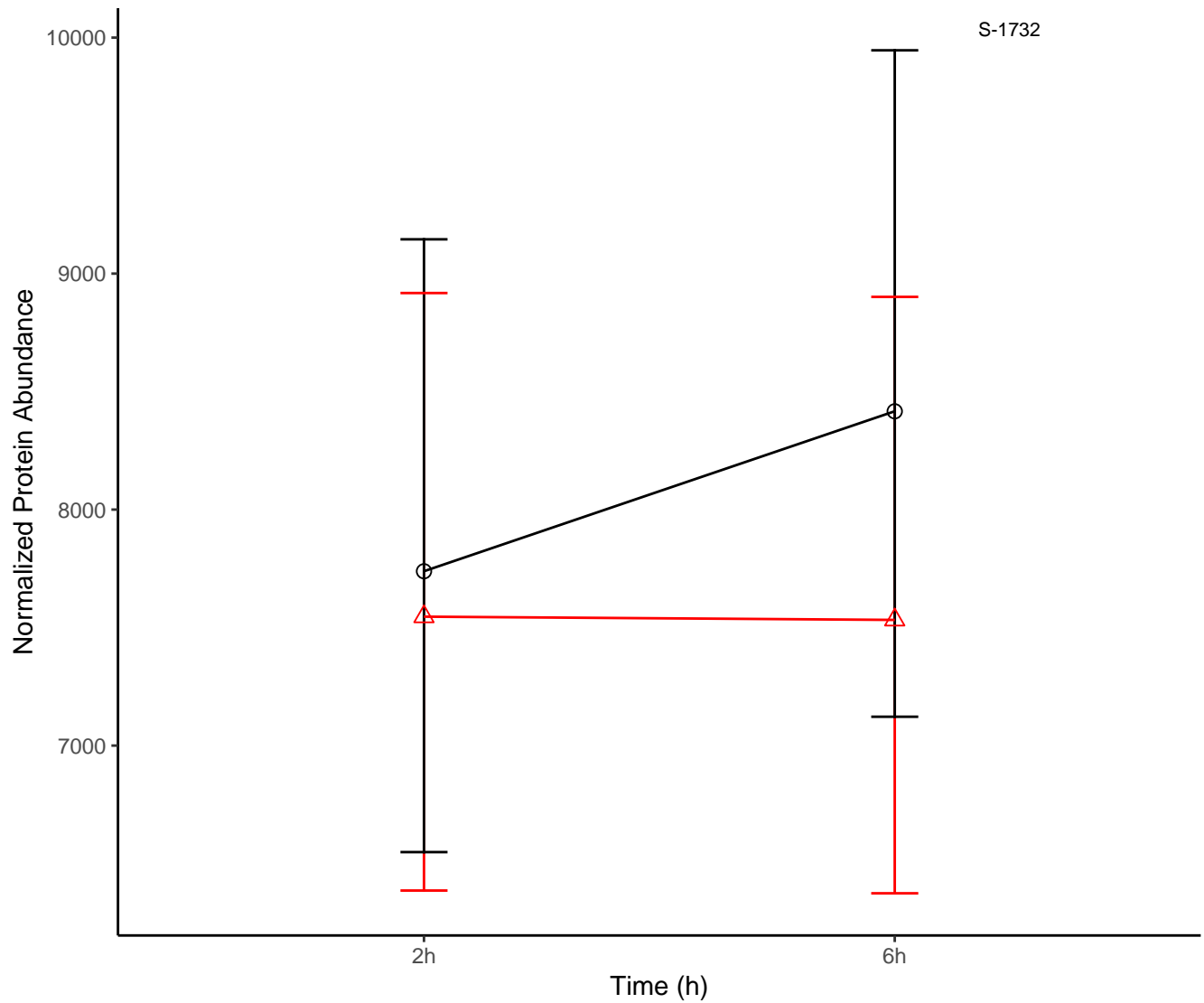


○ TSB-dex

△ TSB

# NAGD\_STAAM

S-1732

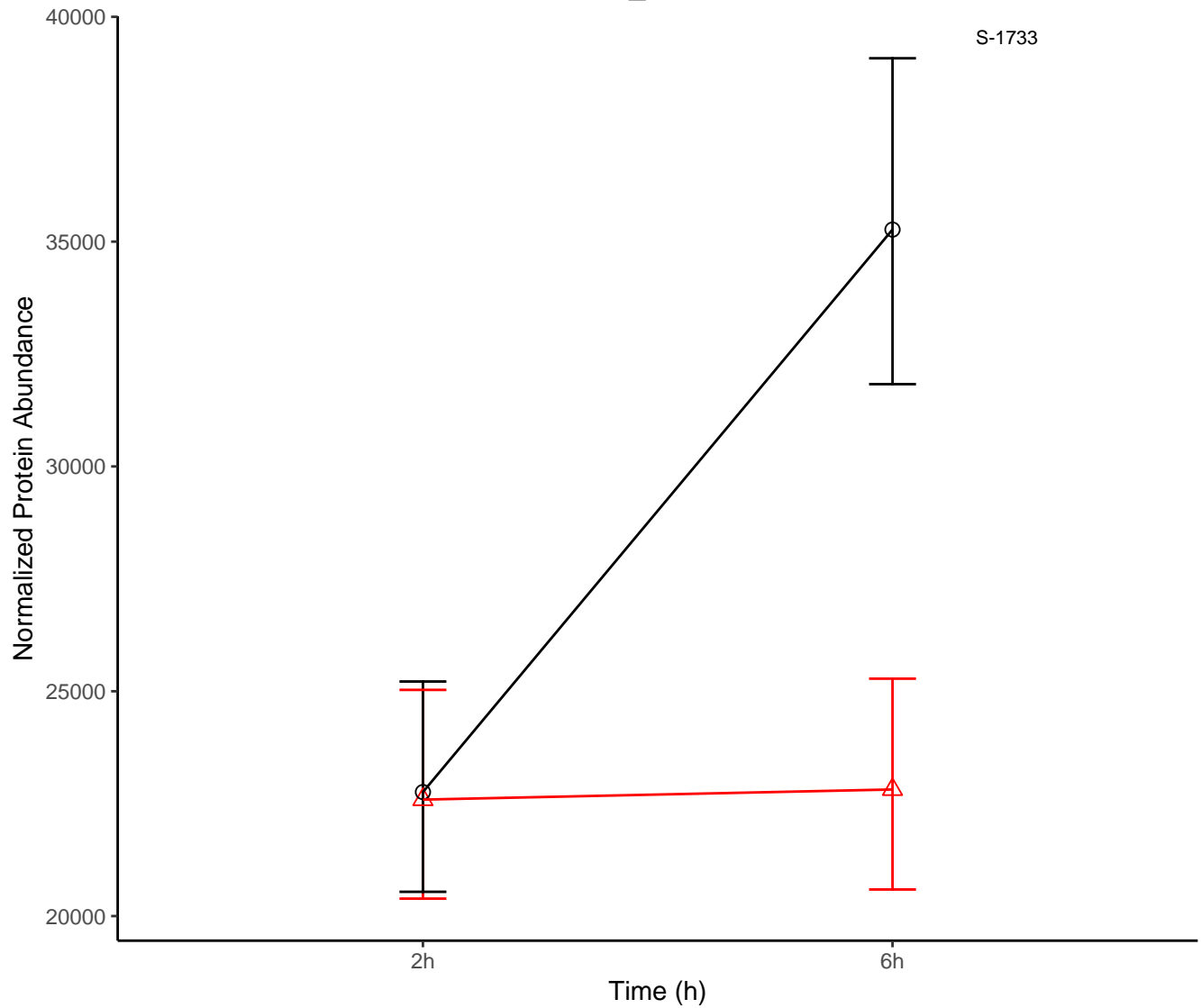


○ TSB-dex

△ TSB

# NDK\_STAAM

S-1733

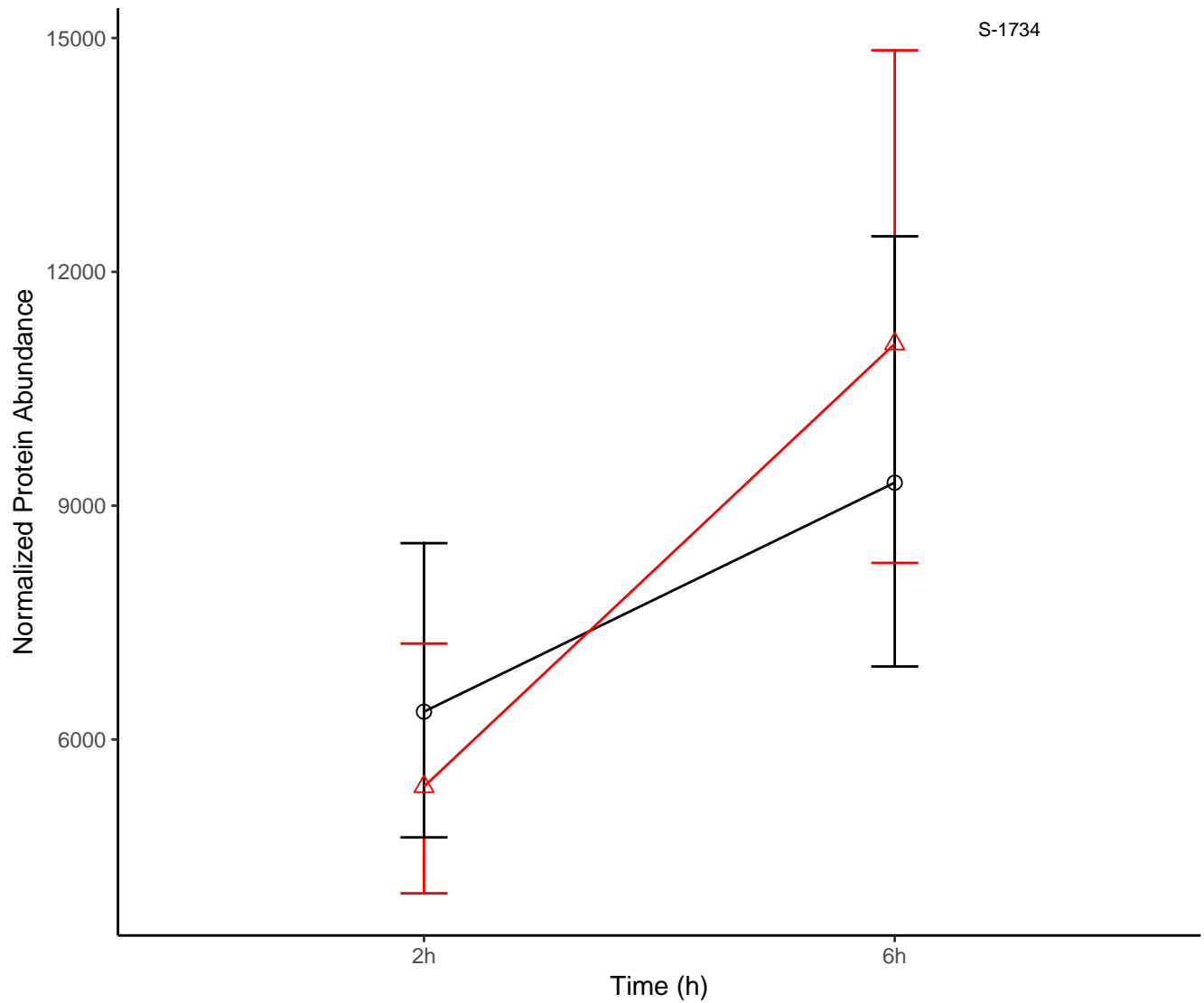


○ TSB-dex

△ TSB

# NRDR\_STAAM

S-1734

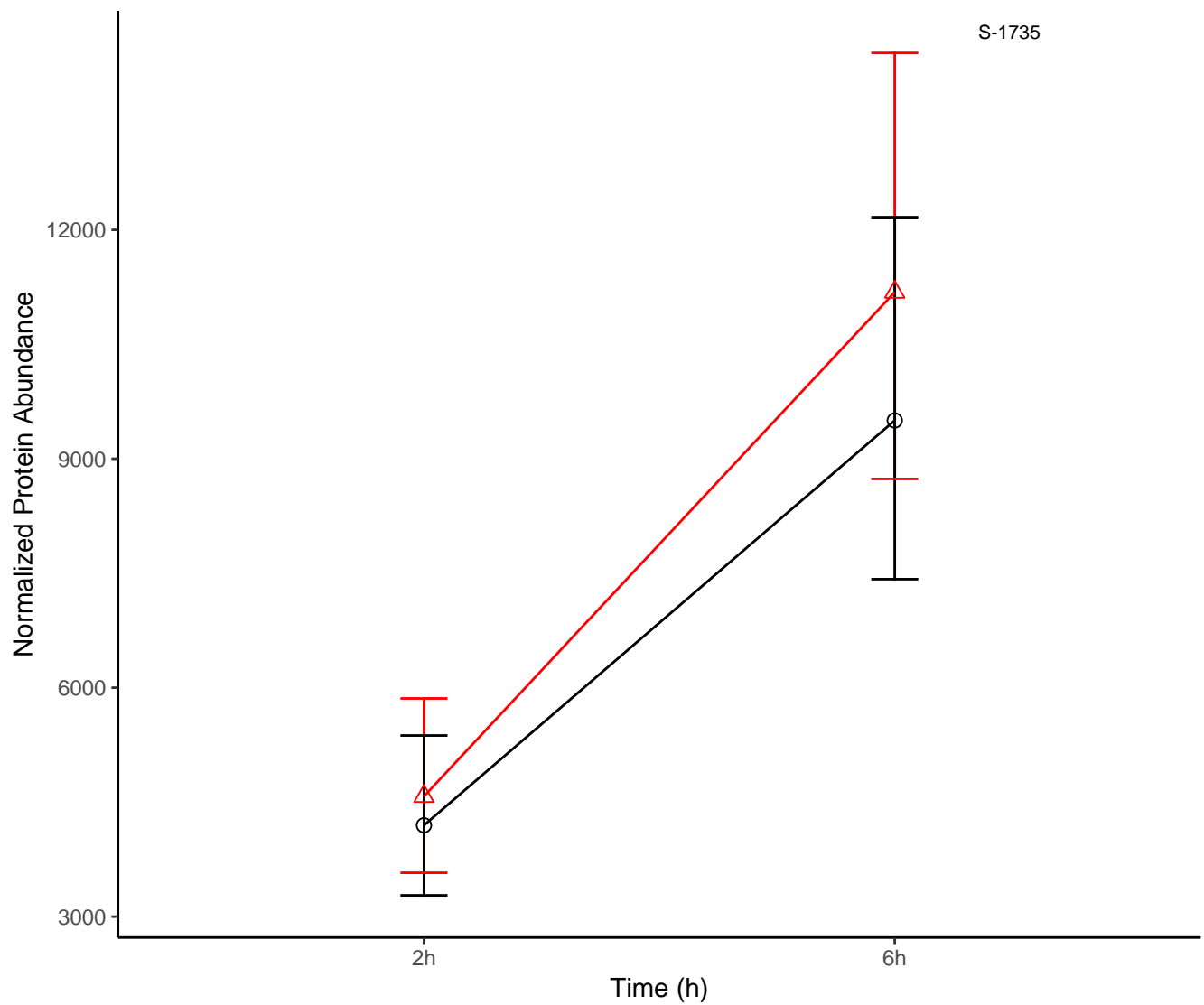


○ TSB-dex

△ TSB

# NREB\_STAAM

S-1735

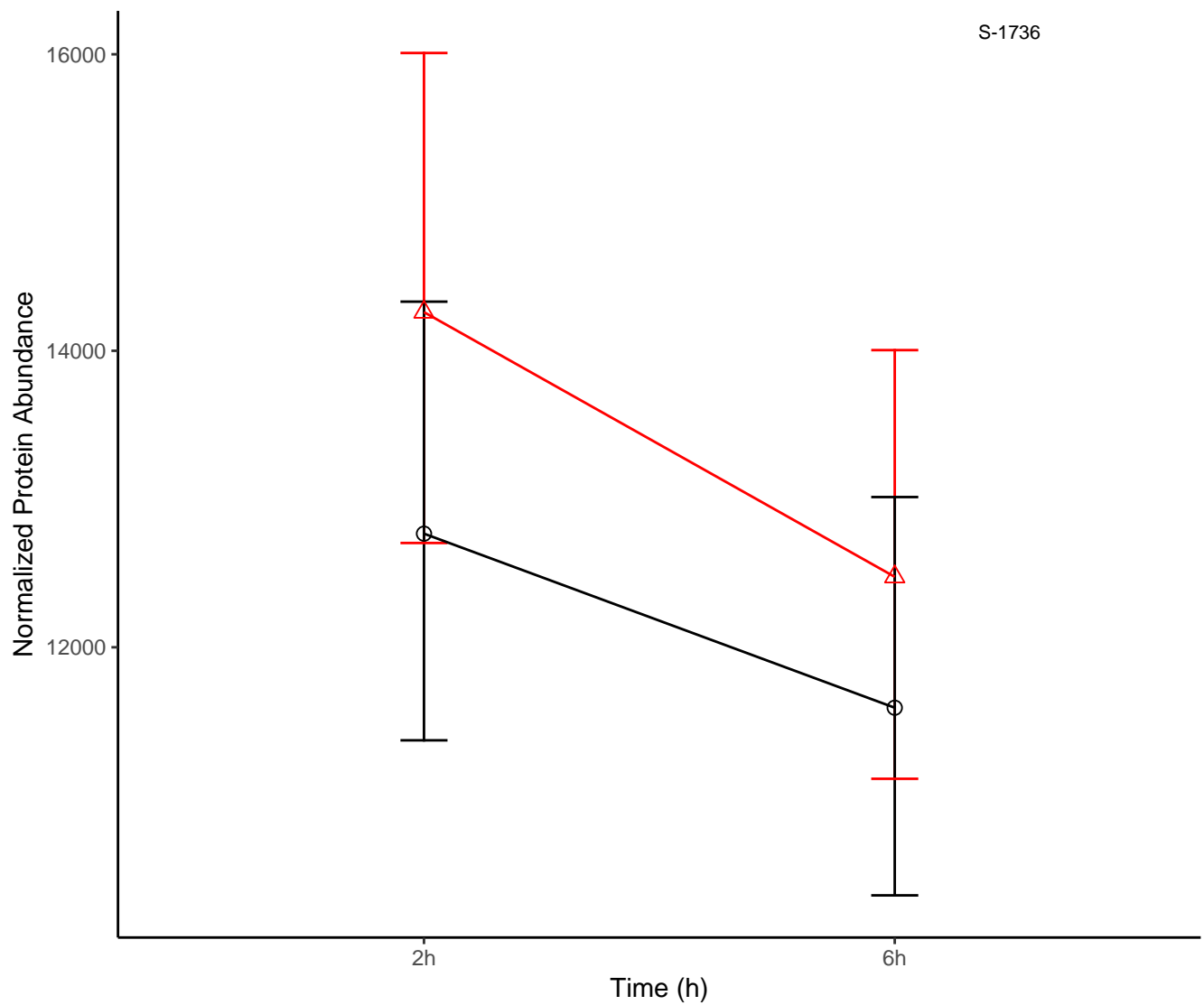


○ TSB-dex

△ TSB

# NUSG\_STAAM

S-1736



○ TSB-dex

△ TSB



# OAT2\_STAAM

S-1737

Normalized Protein Abundance

20000

15000

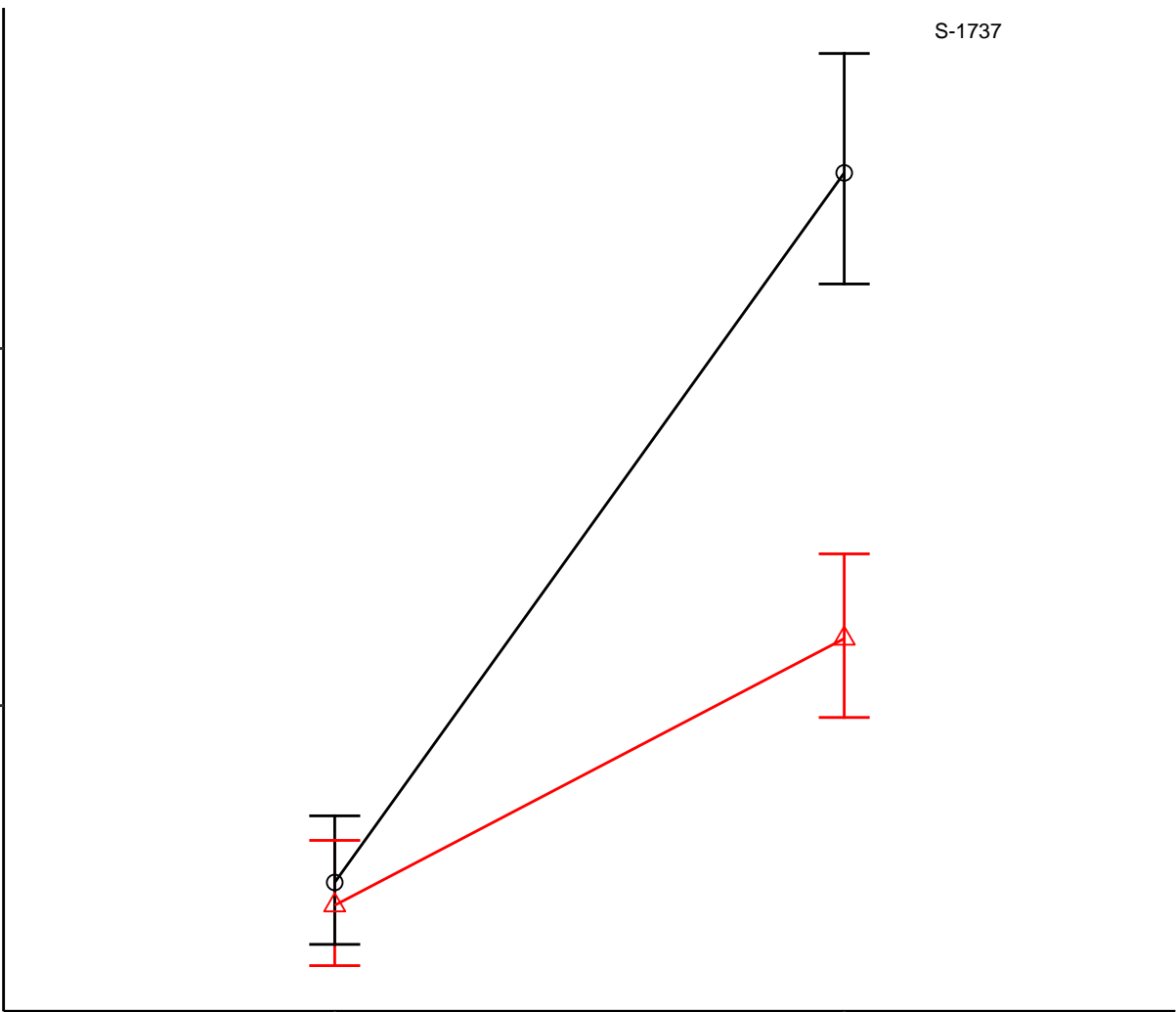
2h

6h

Time (h)

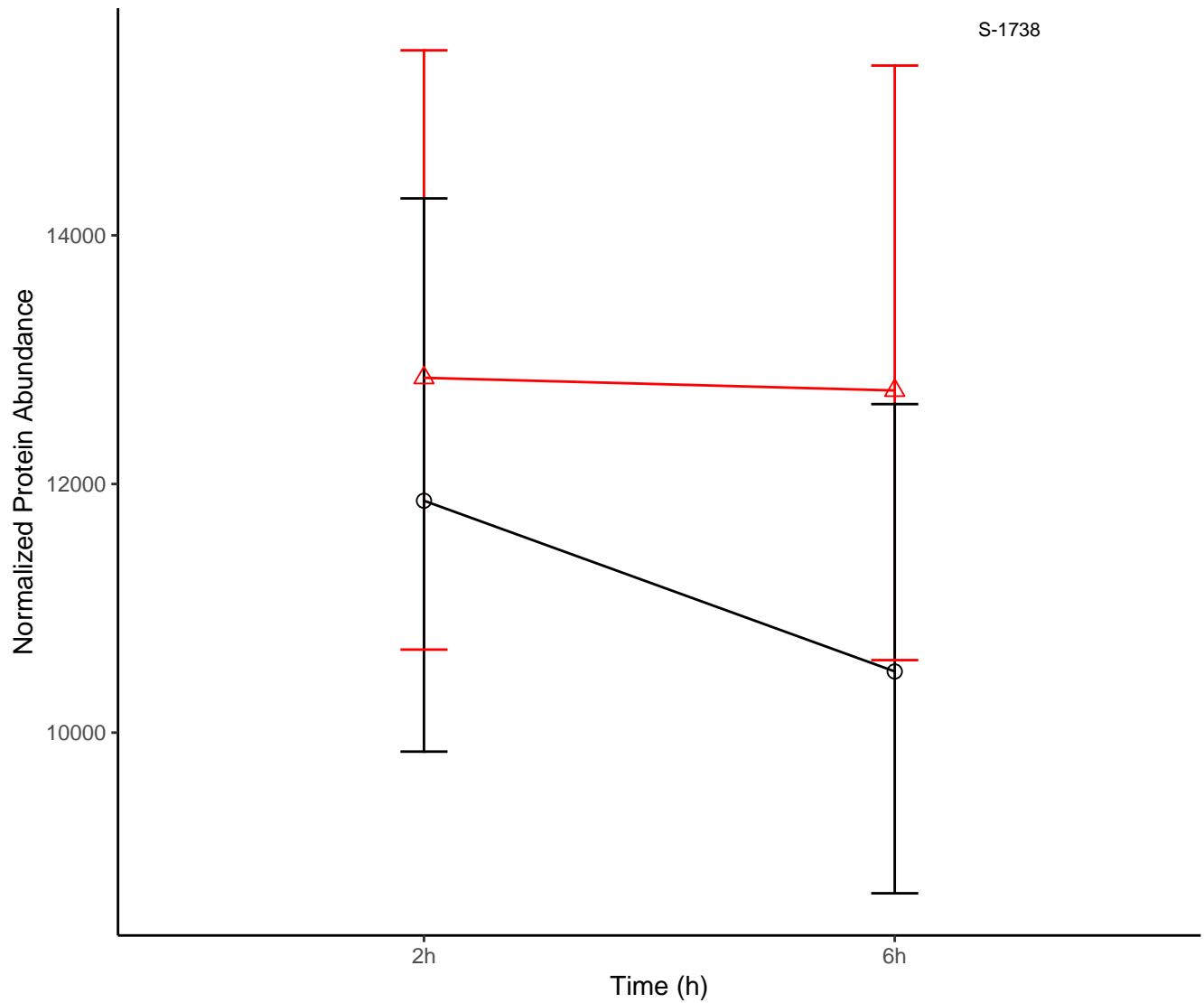
○ TSB-dex

△ TSB



# OBG\_STAAM

S-1738

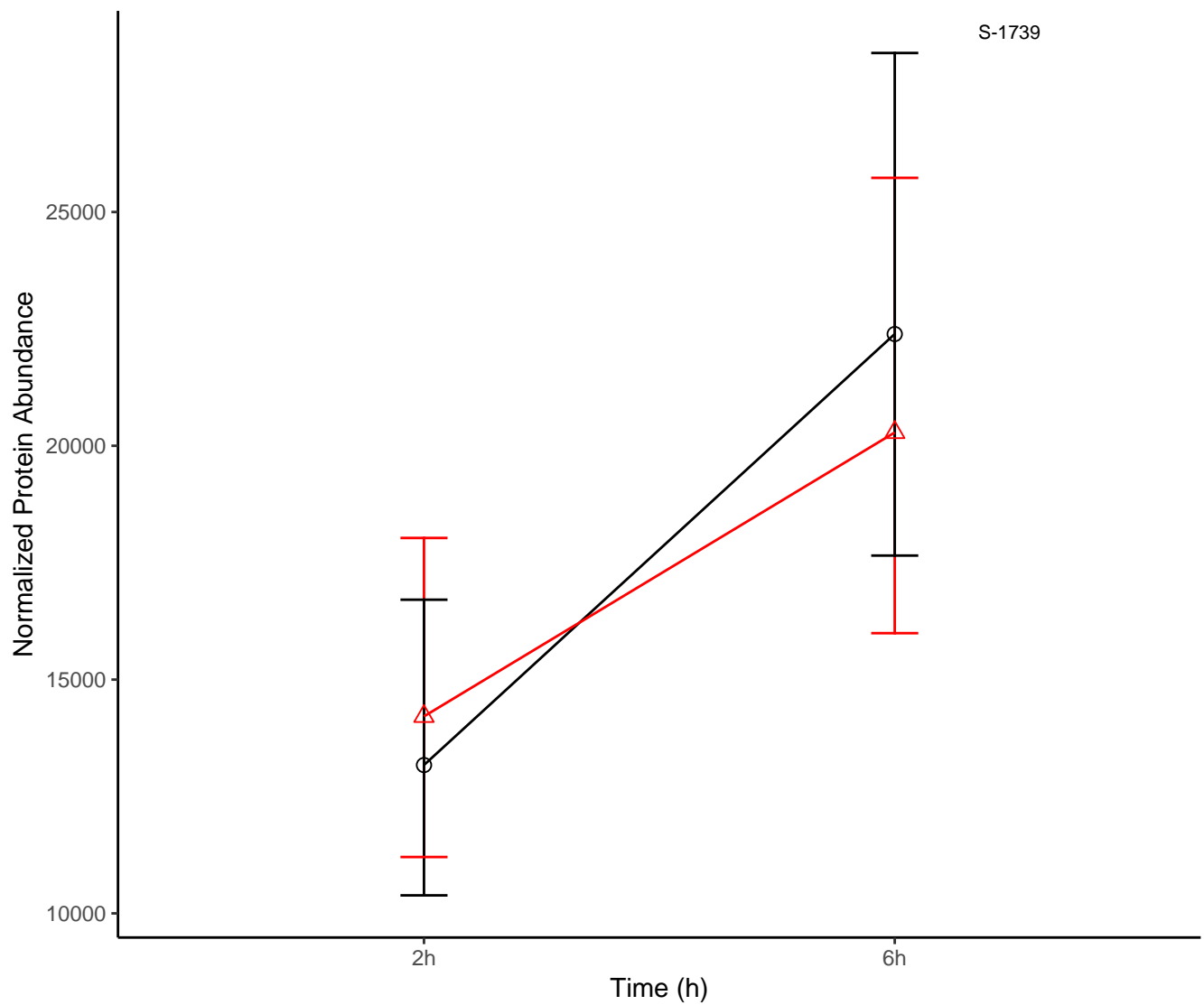


○ TSB-dex

△ TSB

# ODO1\_STAAM

S-1739

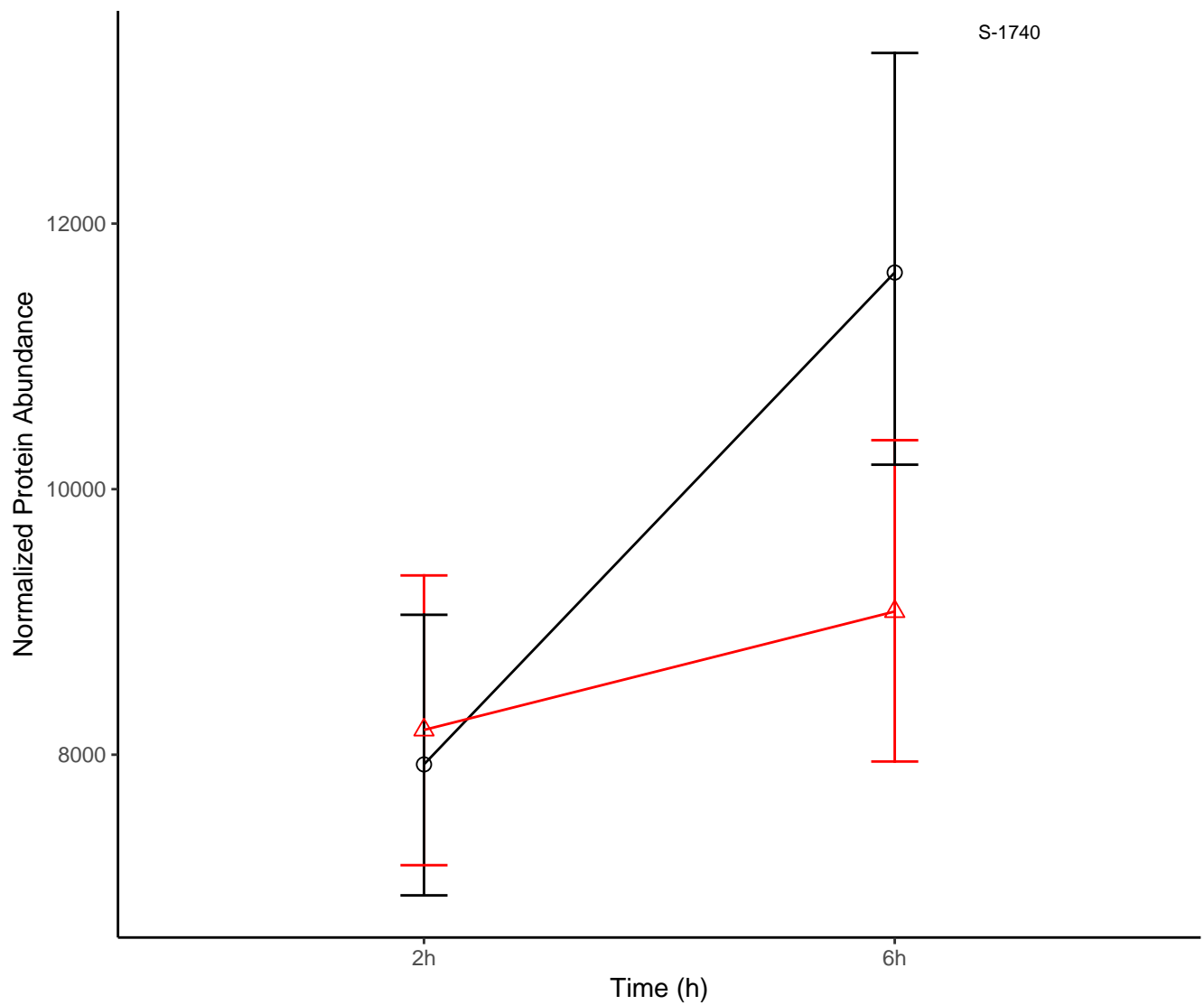


○ TSB-dex

△ TSB

# ODO2\_STAAM

S-1740

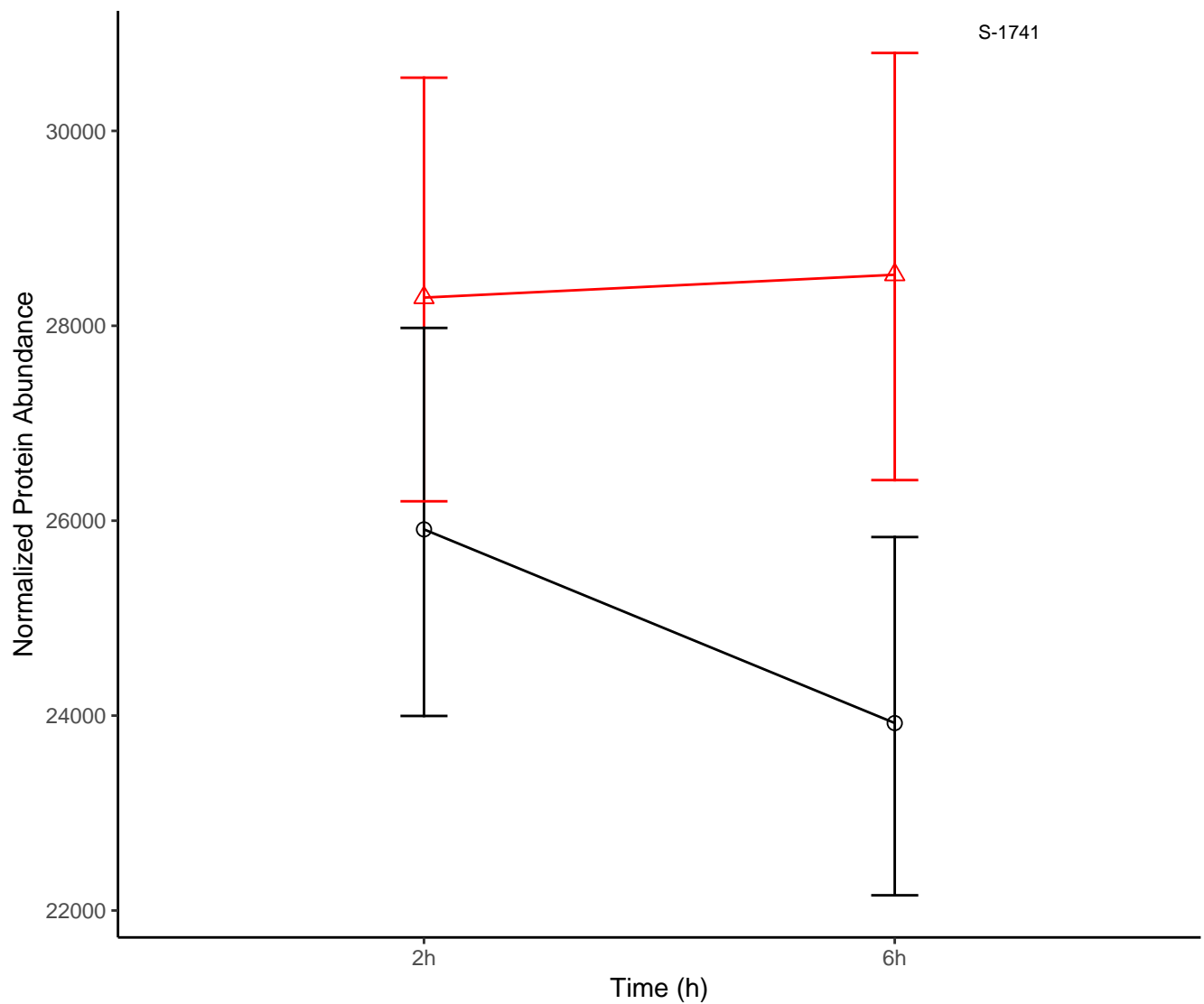


○ TSB-dex

△ TSB

# ODP2\_STAAM

S-1741

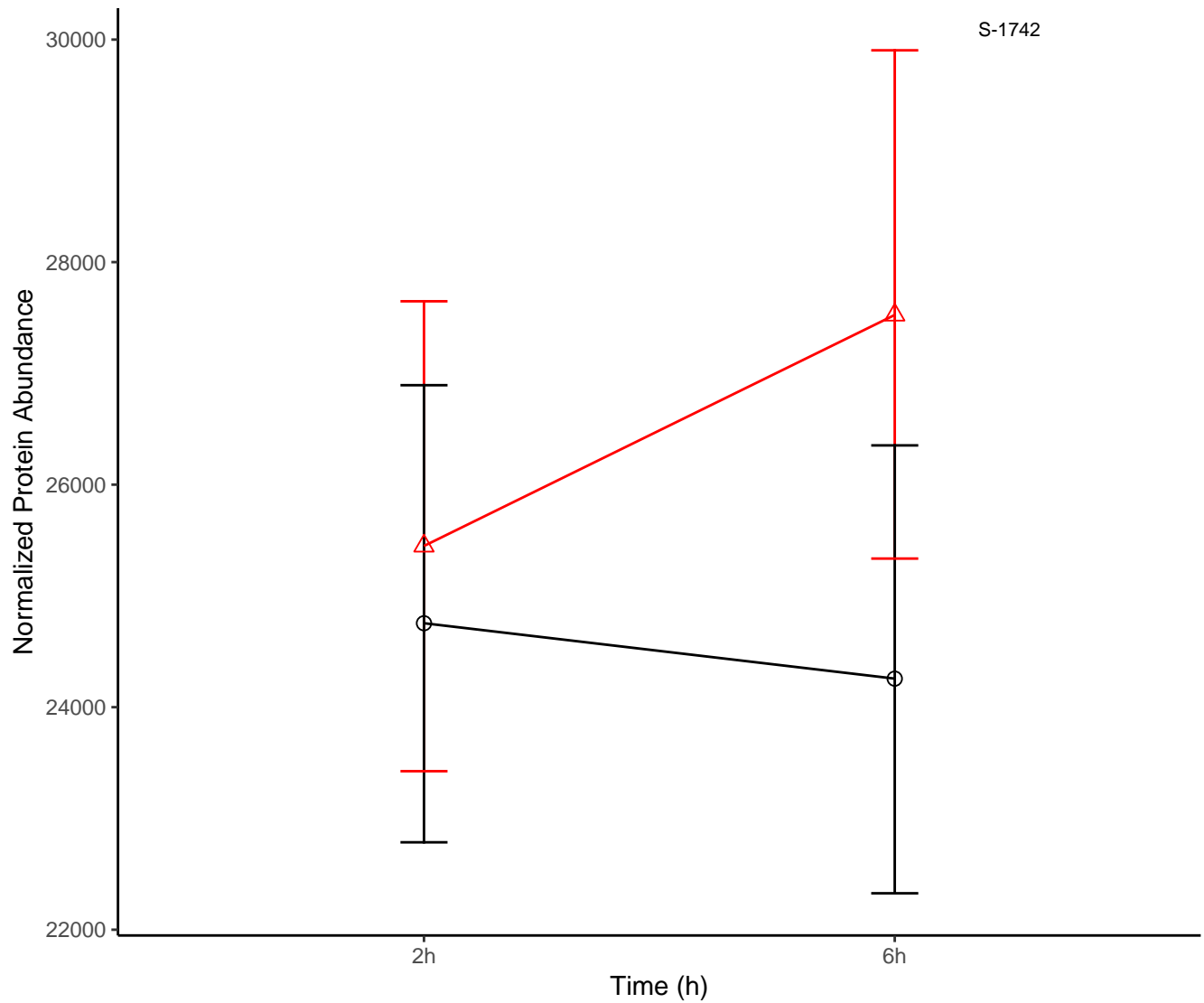


○ TSB-dex

△ TSB

# ODPA\_STAAM

S-1742

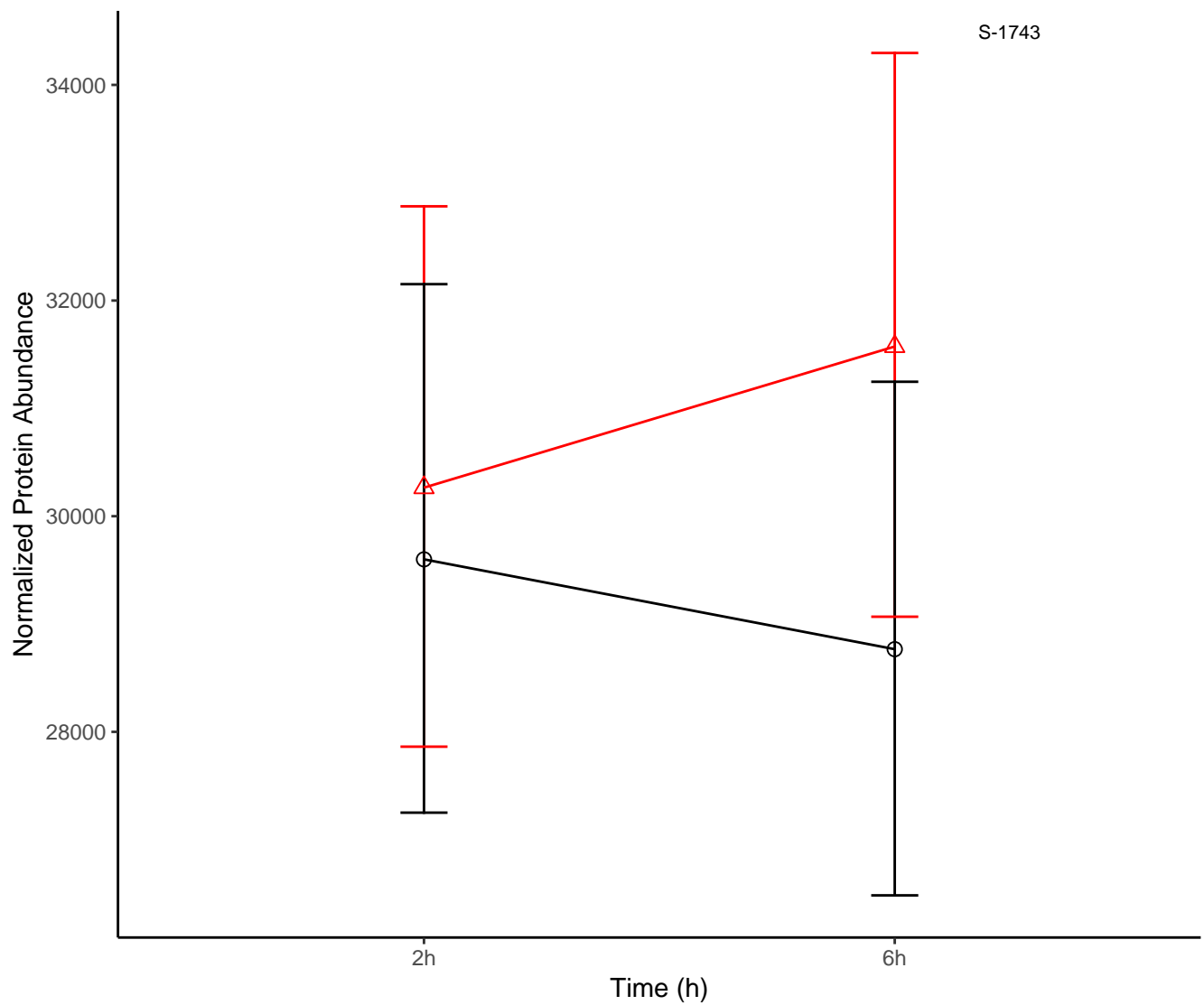


○ TSB-dex

△ TSB

# ODPB\_STAAM

S-1743



○ TSB-dex

△ TSB

# OHRL\_STAAM

S-1744

Normalized Protein Abundance

10000

5000

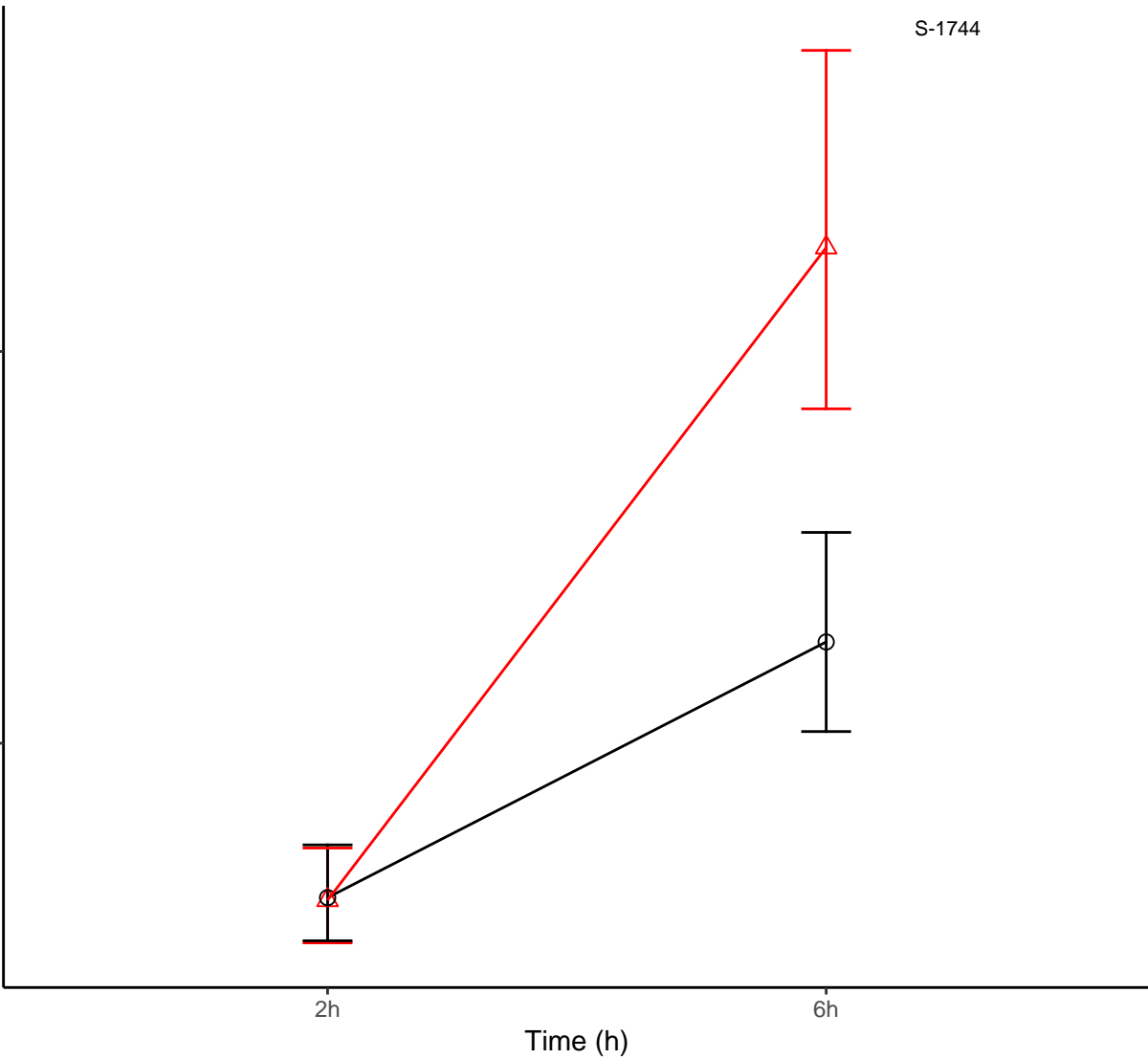
2h

6h

Time (h)

○ TSB-dex

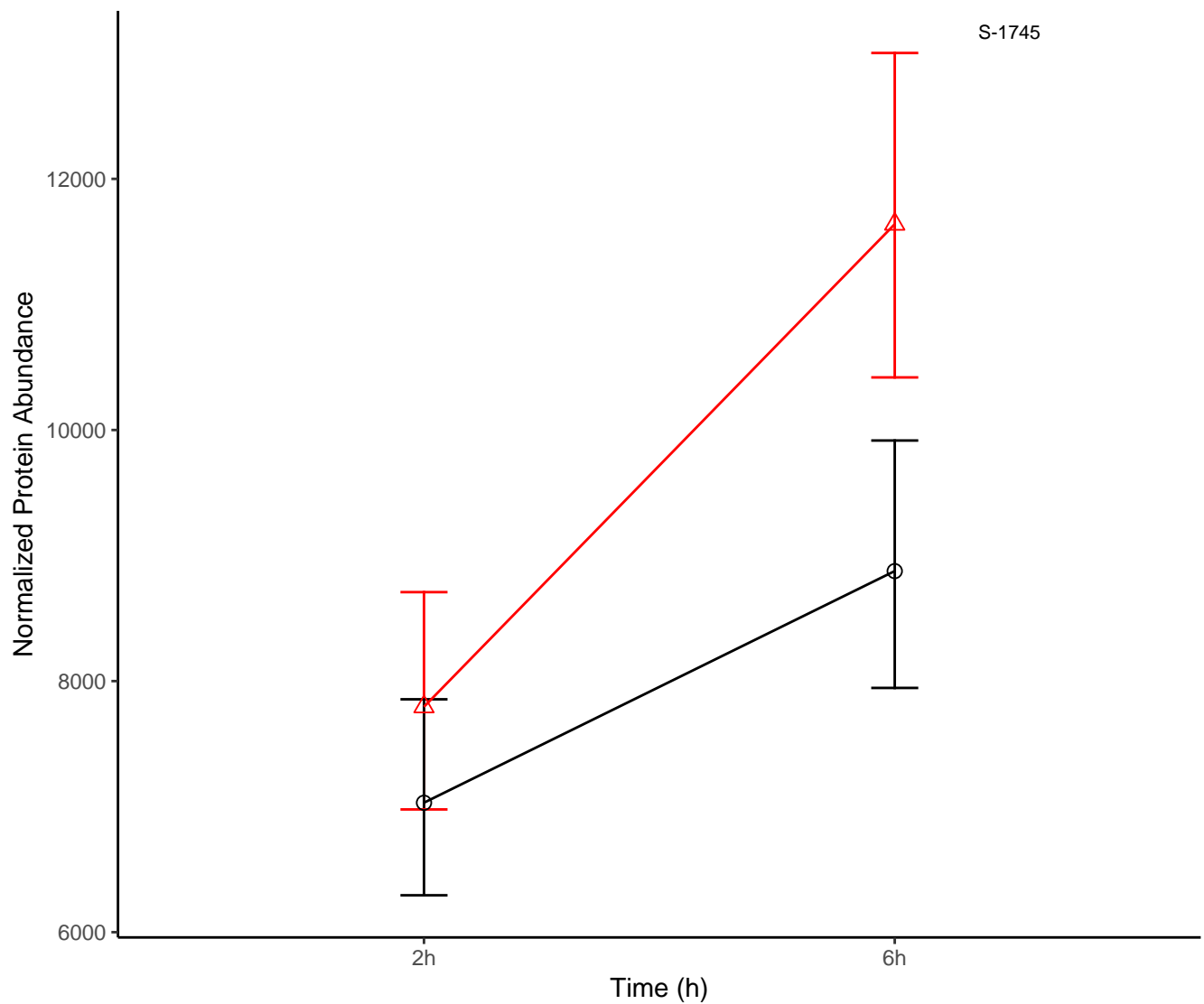
△ TSB





# OTC\_STAAM

S-1745

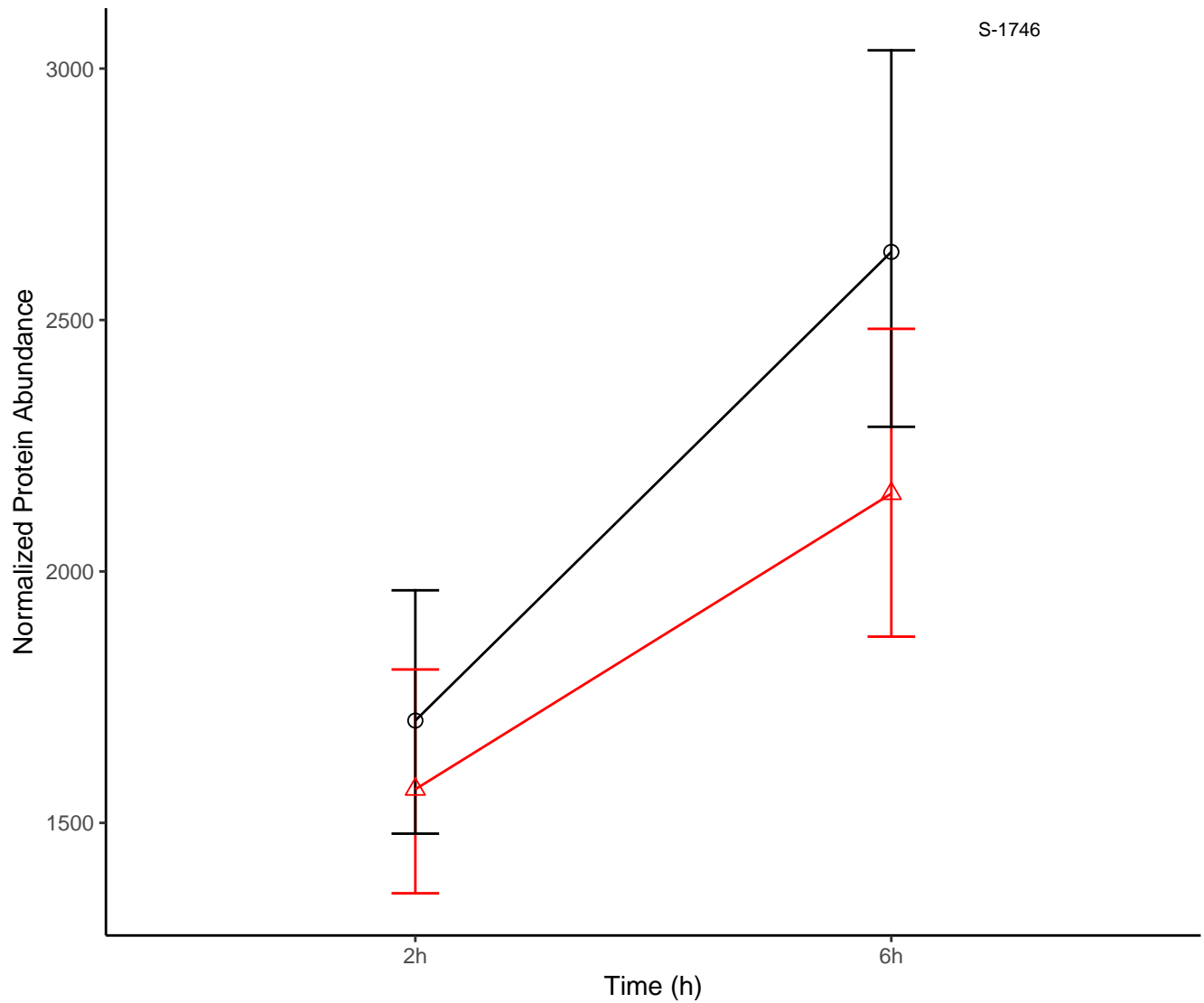


○ TSB-dex

△ TSB

# OTCC\_STAAM

S-1746

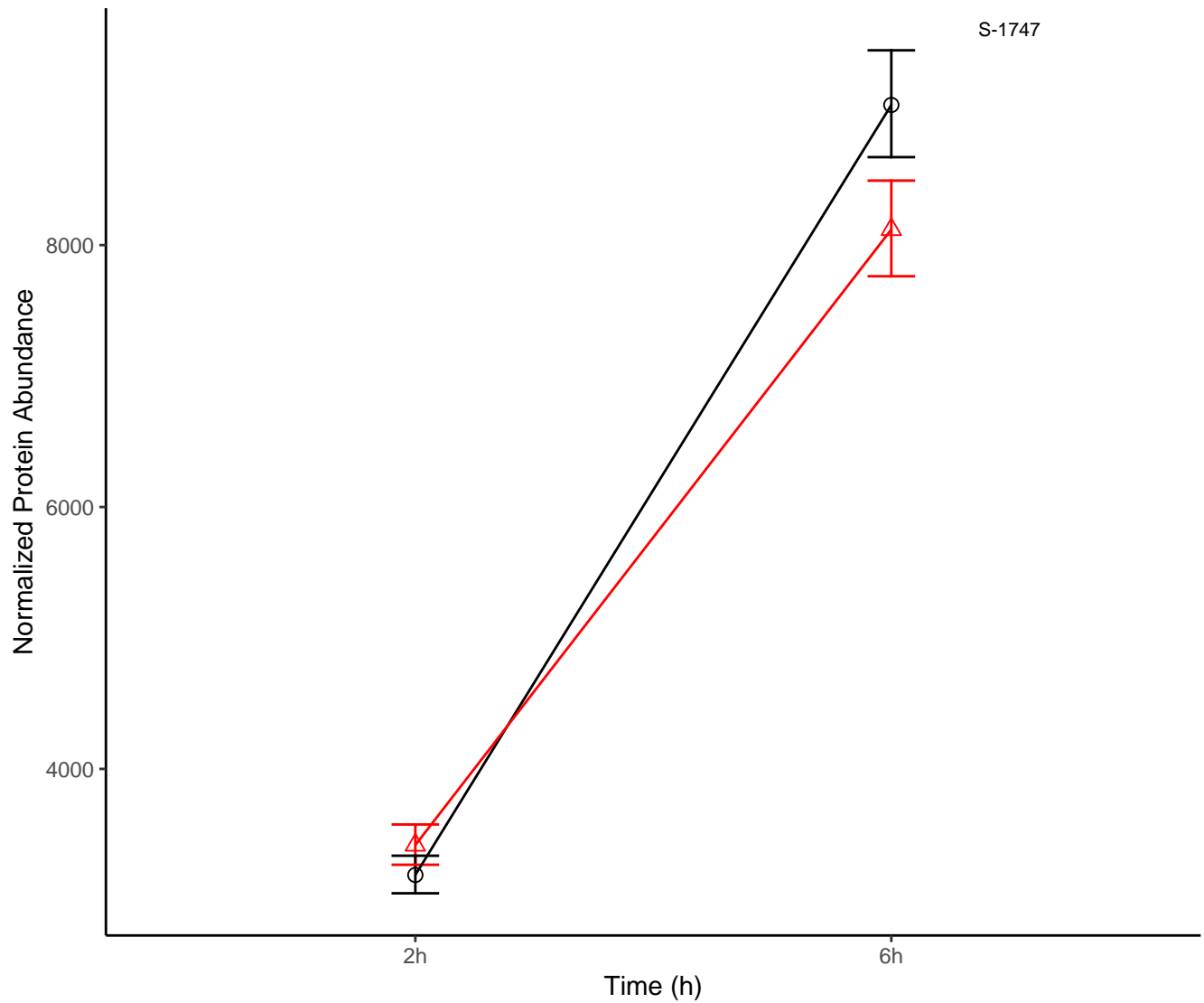


○ TSB-dex

△ TSB

# P5CR\_STAAM

S-1747

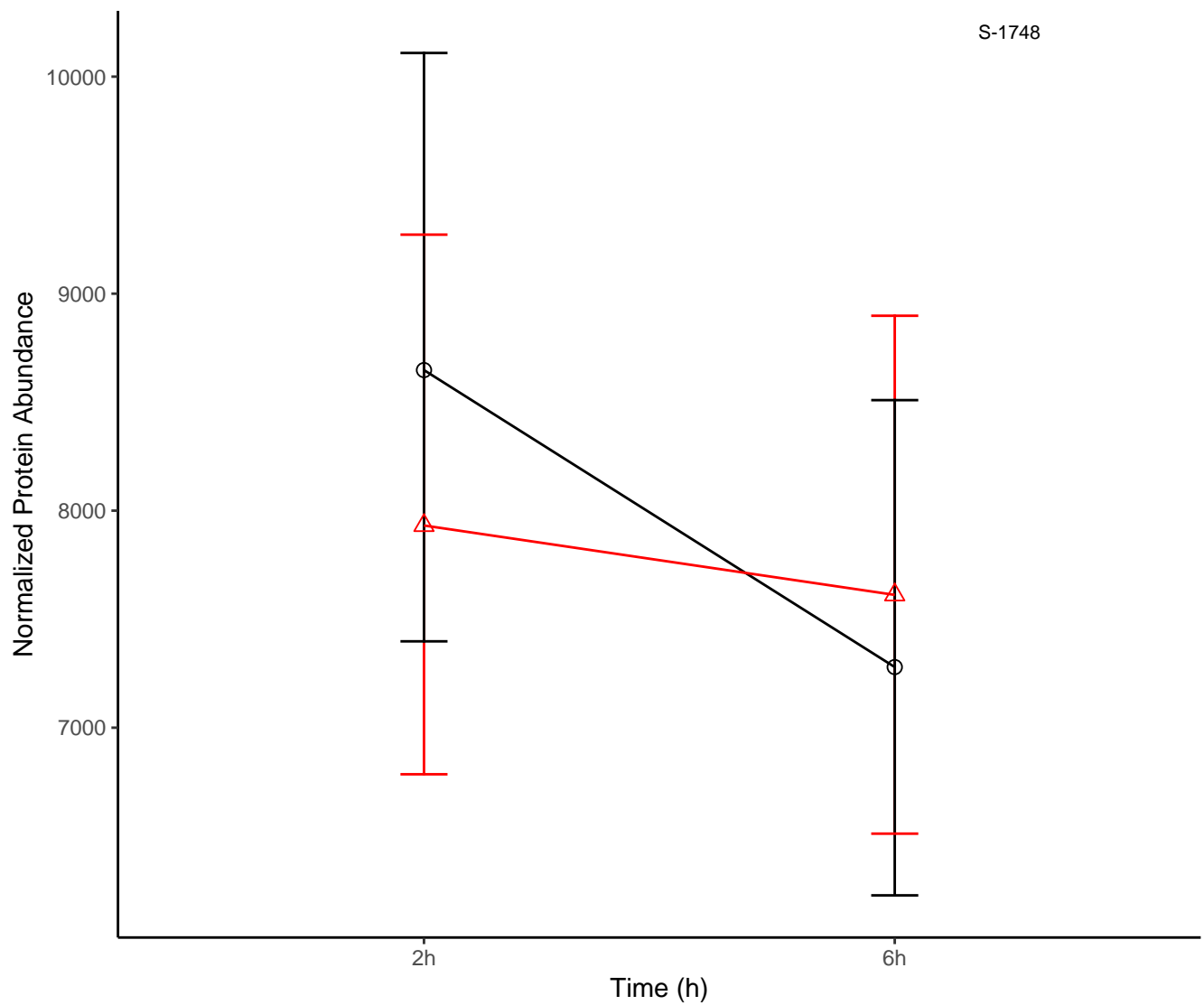


○ TSB-dex

△ TSB

# PANB\_STAAM

S-1748

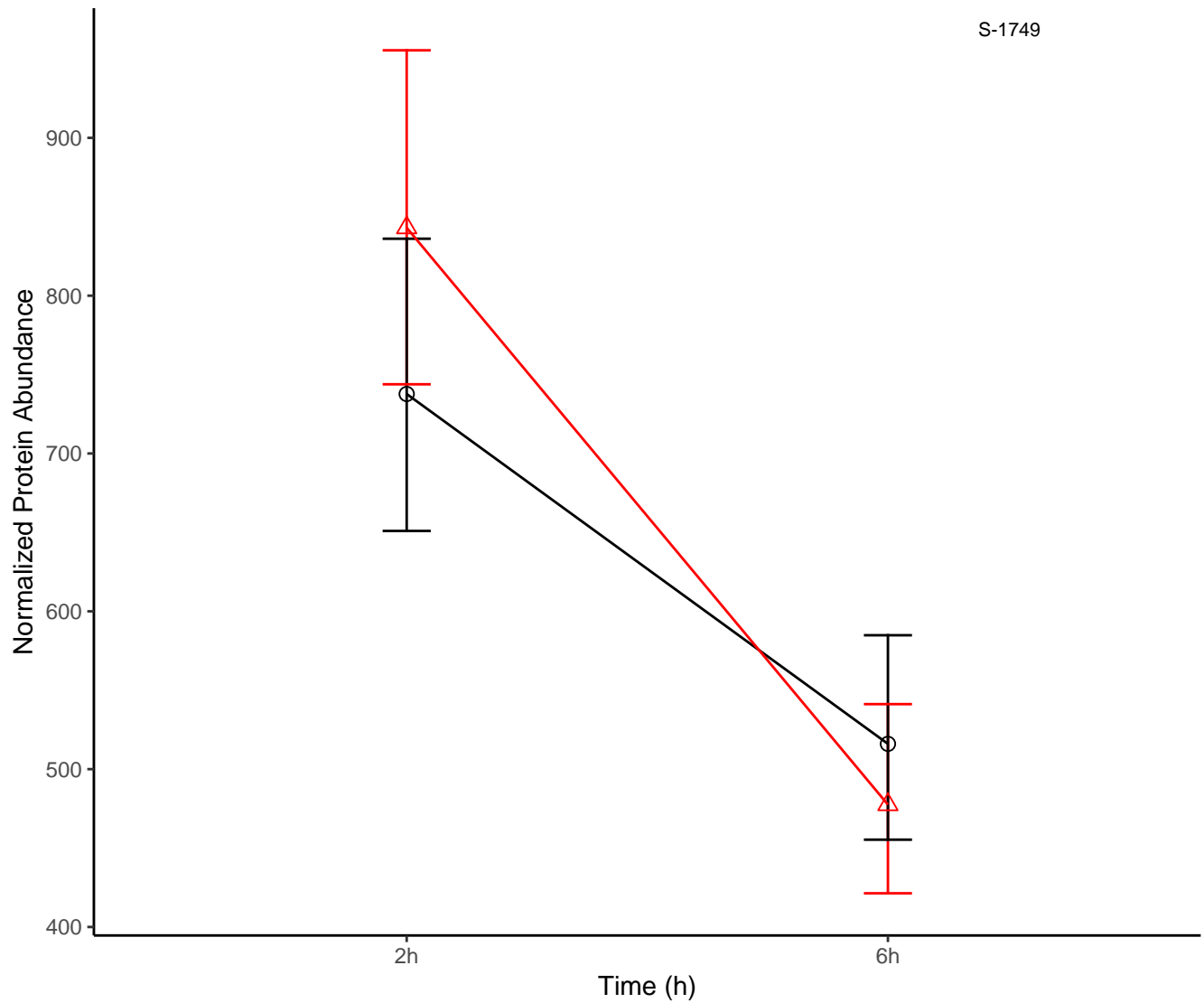


○ TSB-dex

△ TSB

# PAND\_STAAM

S-1749

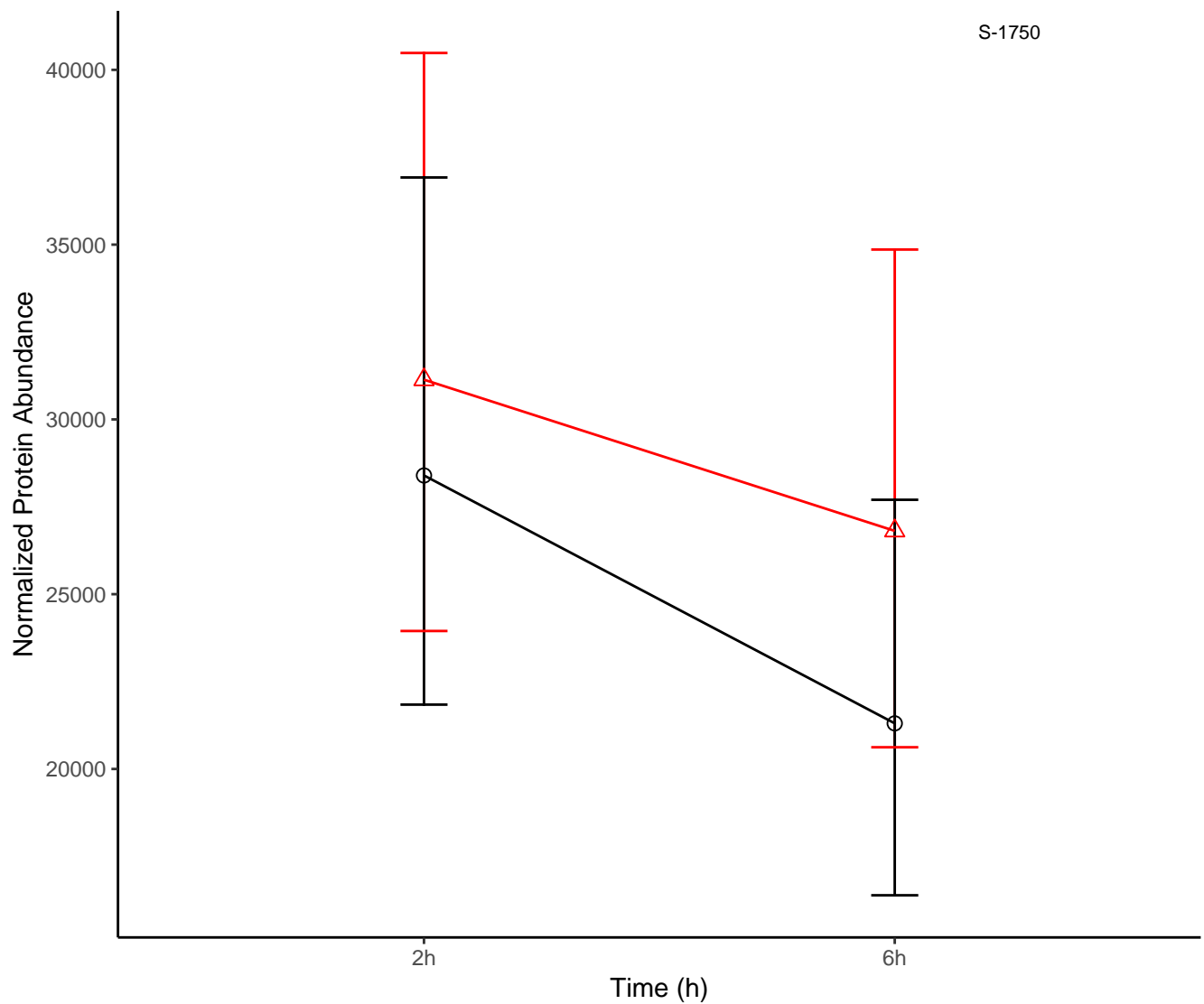


○ TSB-dex

△ TSB

# PARC\_STAAM

S-1750

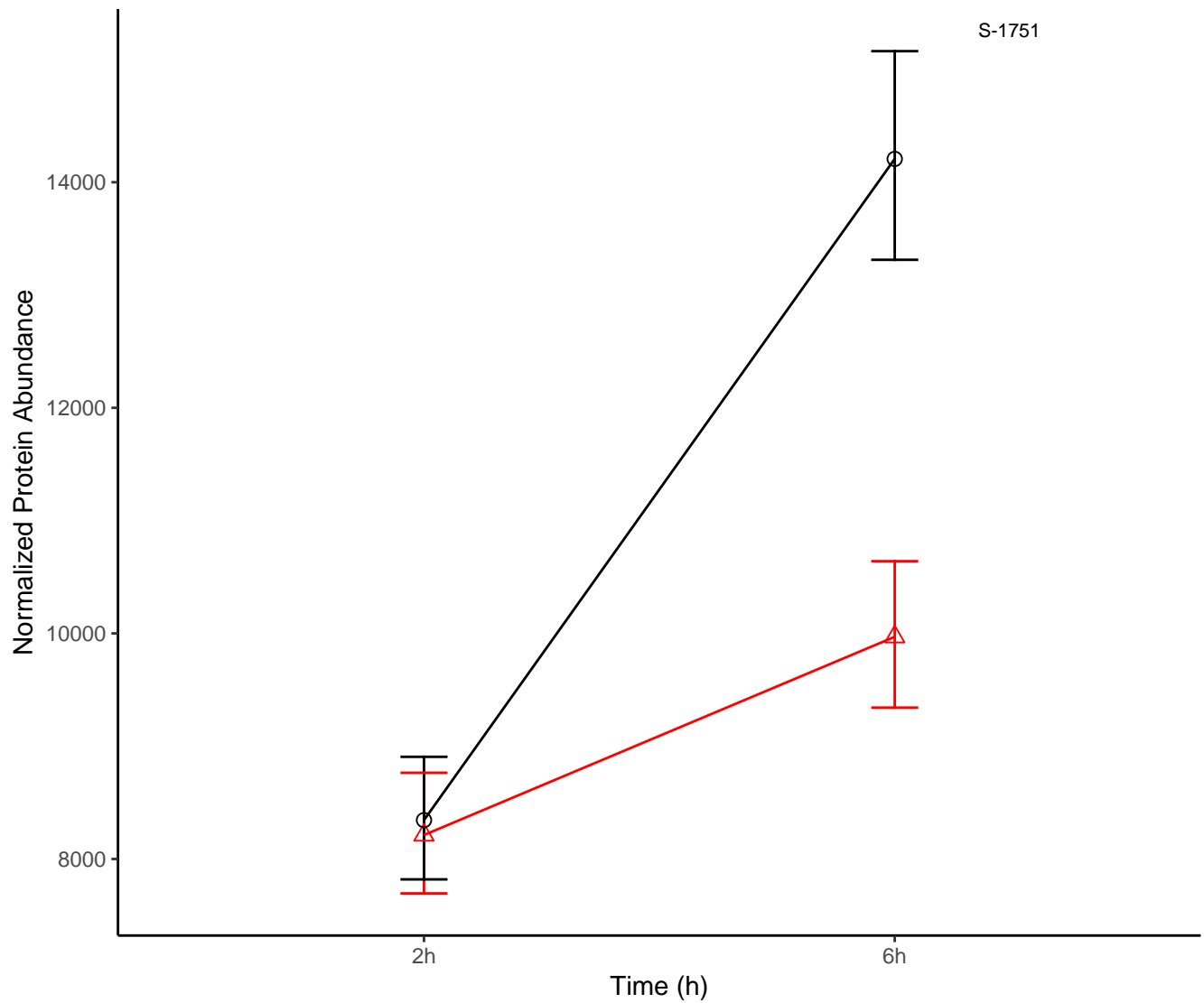


○ TSB-dex

△ TSB

# PCKA\_STAAM

S-1751

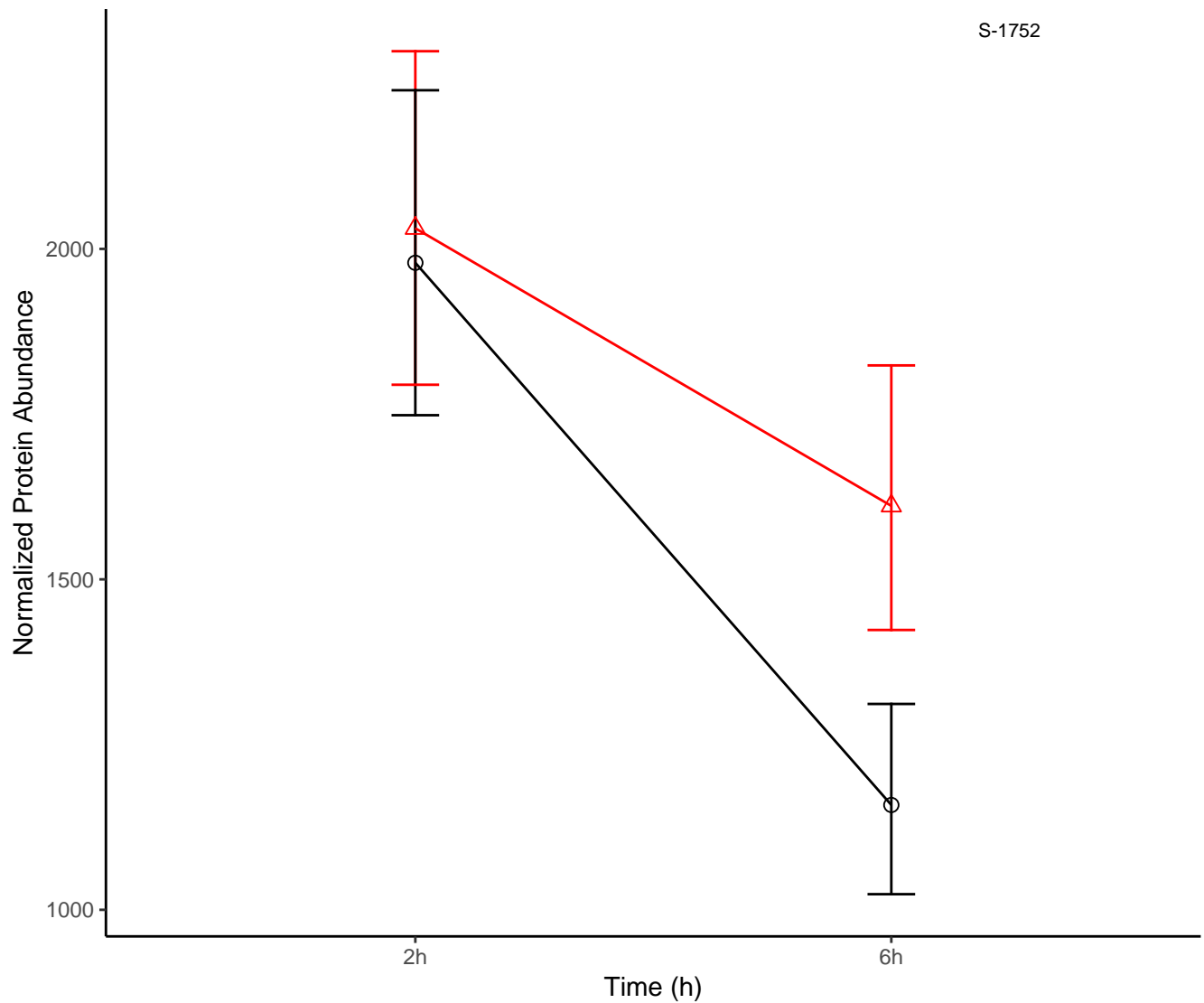


○ TSB-dex

△ TSB

# PCRA\_STAAM

S-1752



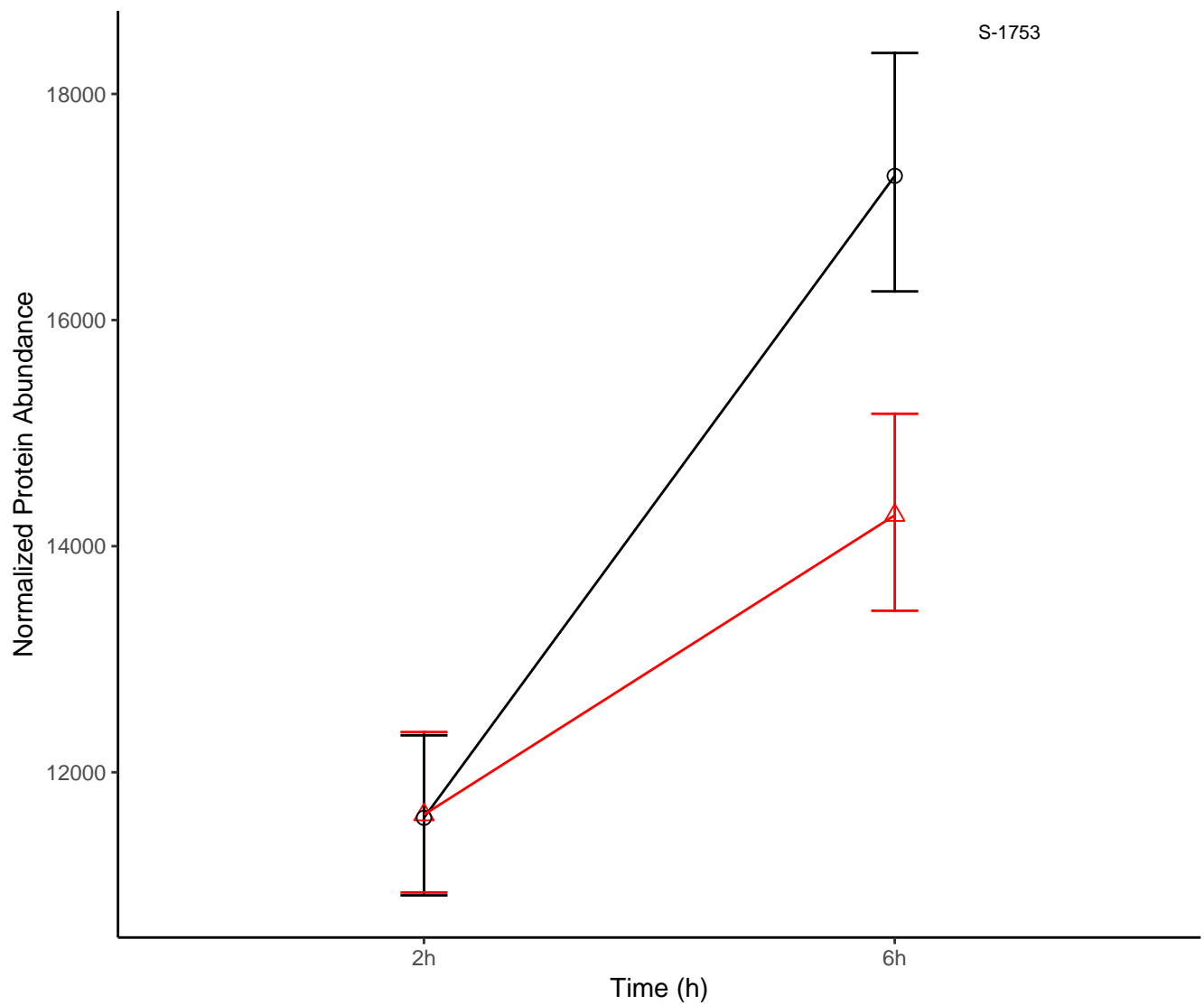
○ TSB-dex

△ TSB



# PDP\_STAAM

S-1753

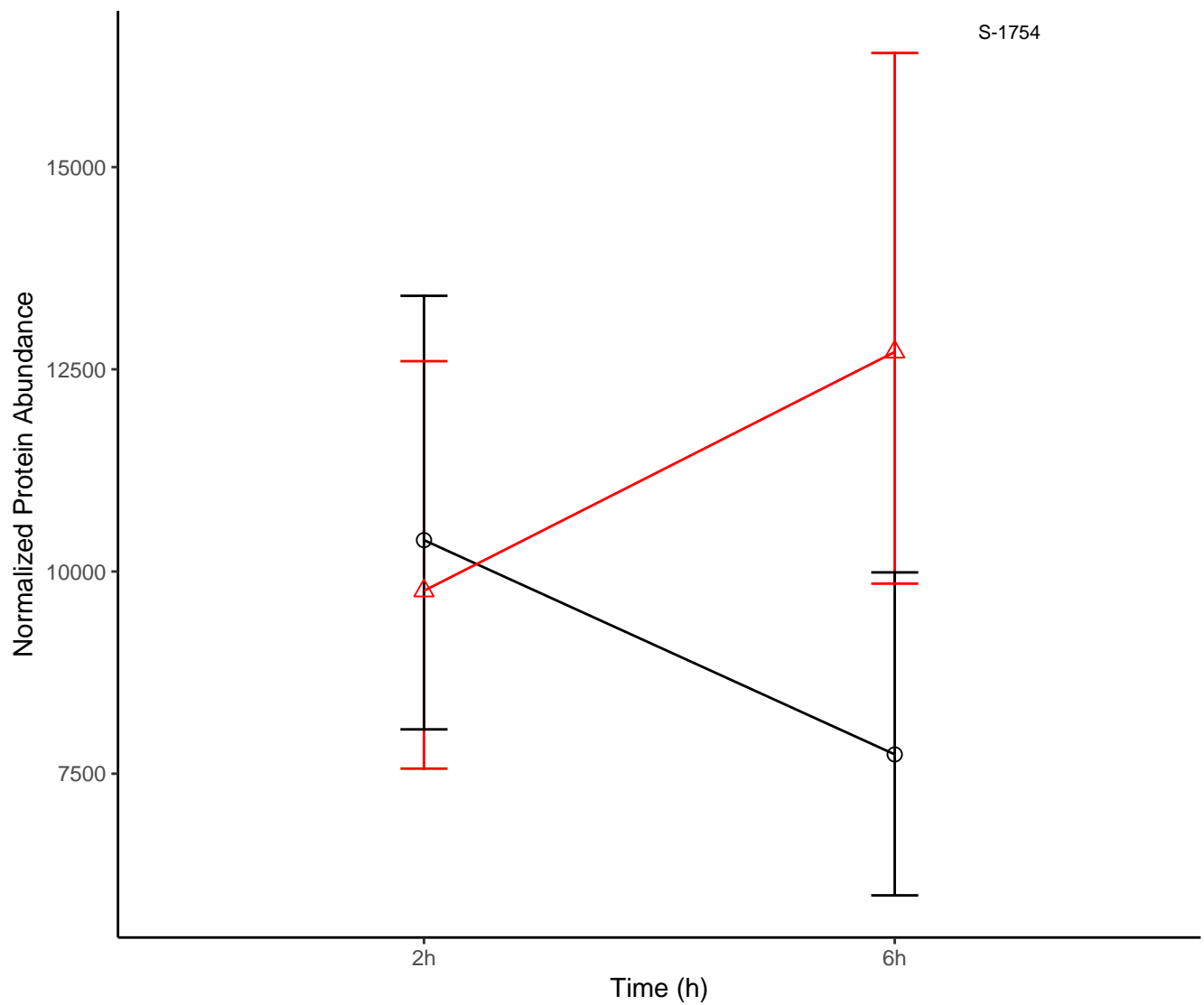


○ TSB-dex

△ TSB

# PDRP\_STAAM

S-1754

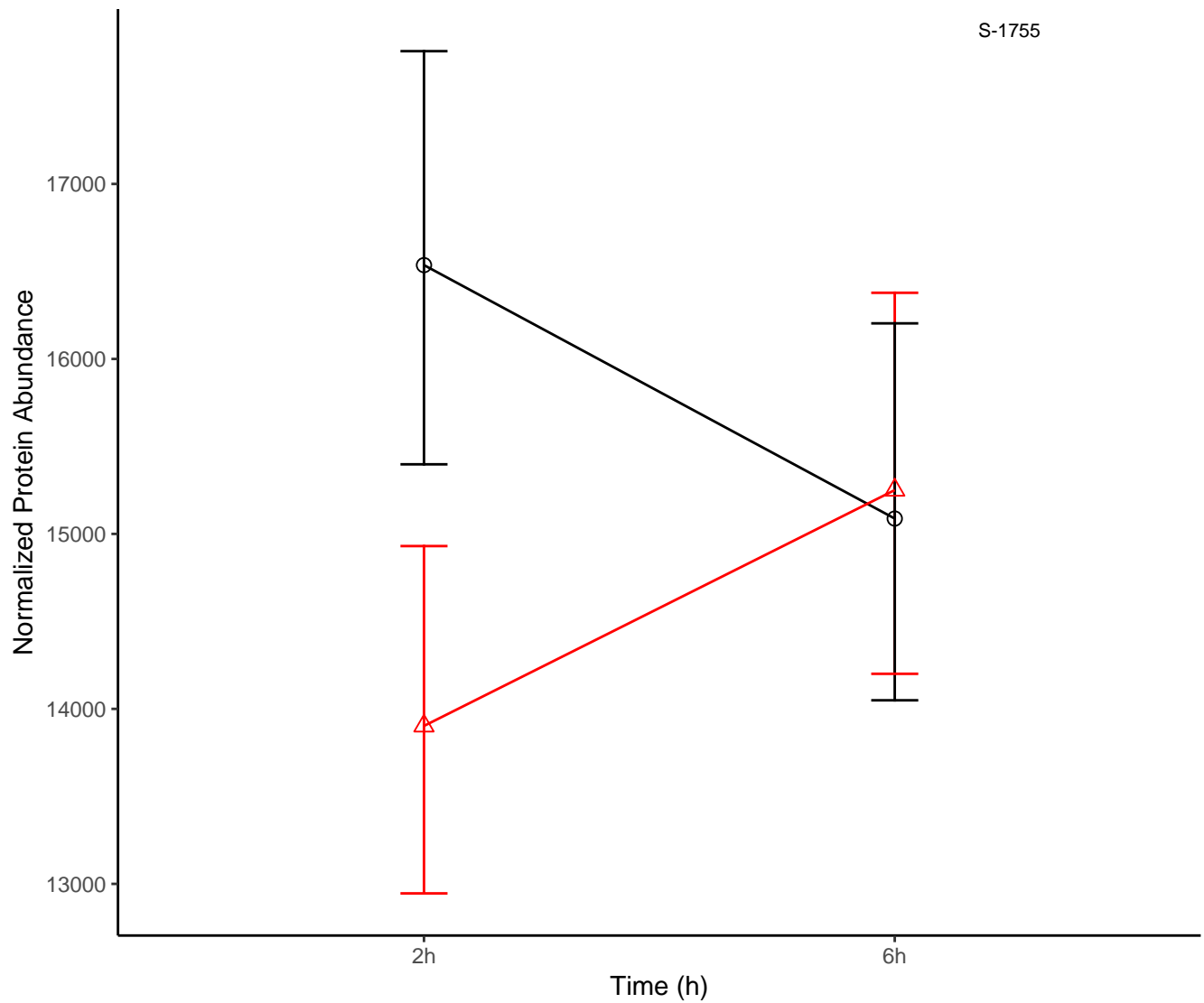


○ TSB-dex

△ TSB

# PDXS\_STAAM

S-1755

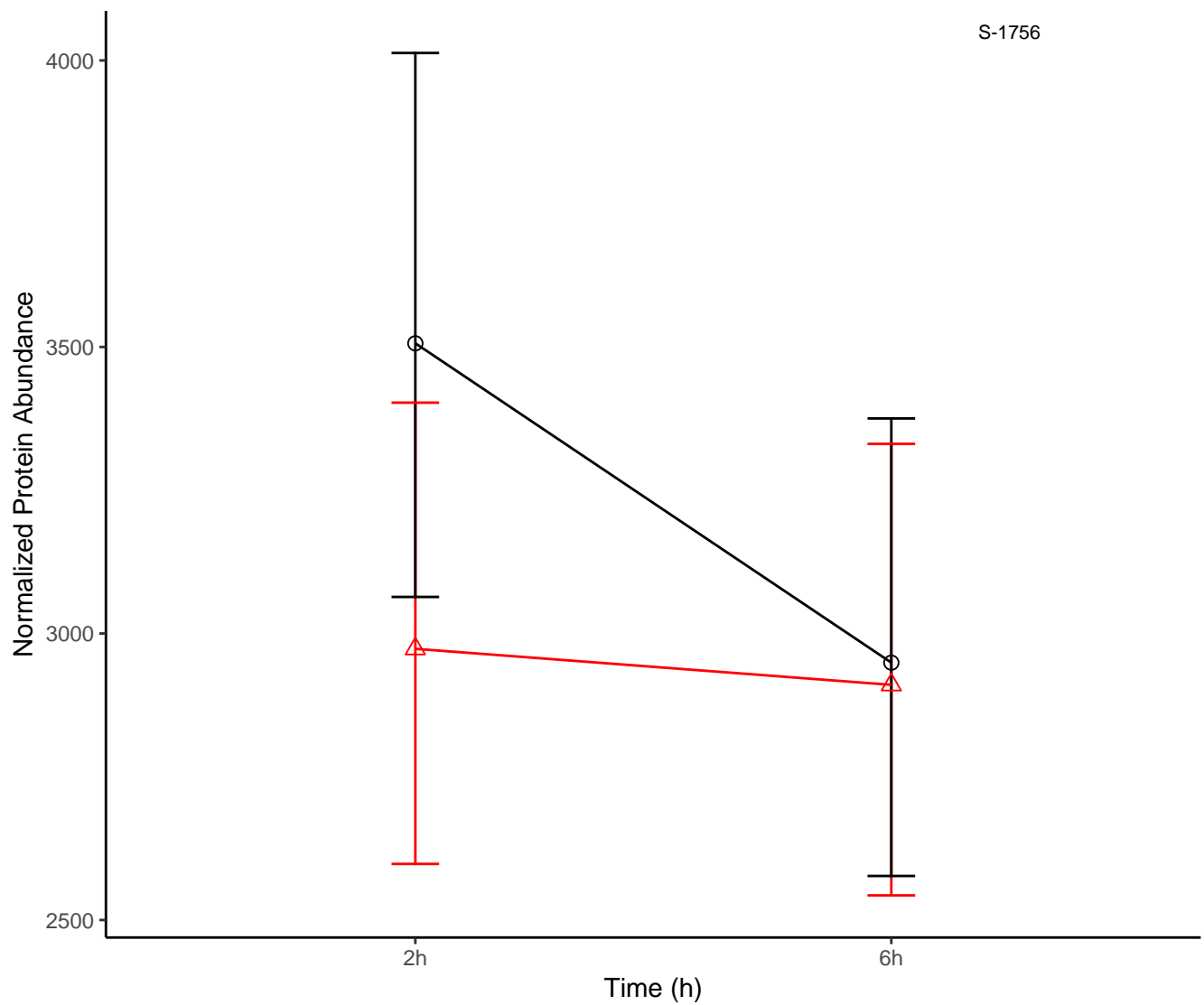


○ TSB-dex

△ TSB

# PDXT\_STAAM

S-1756

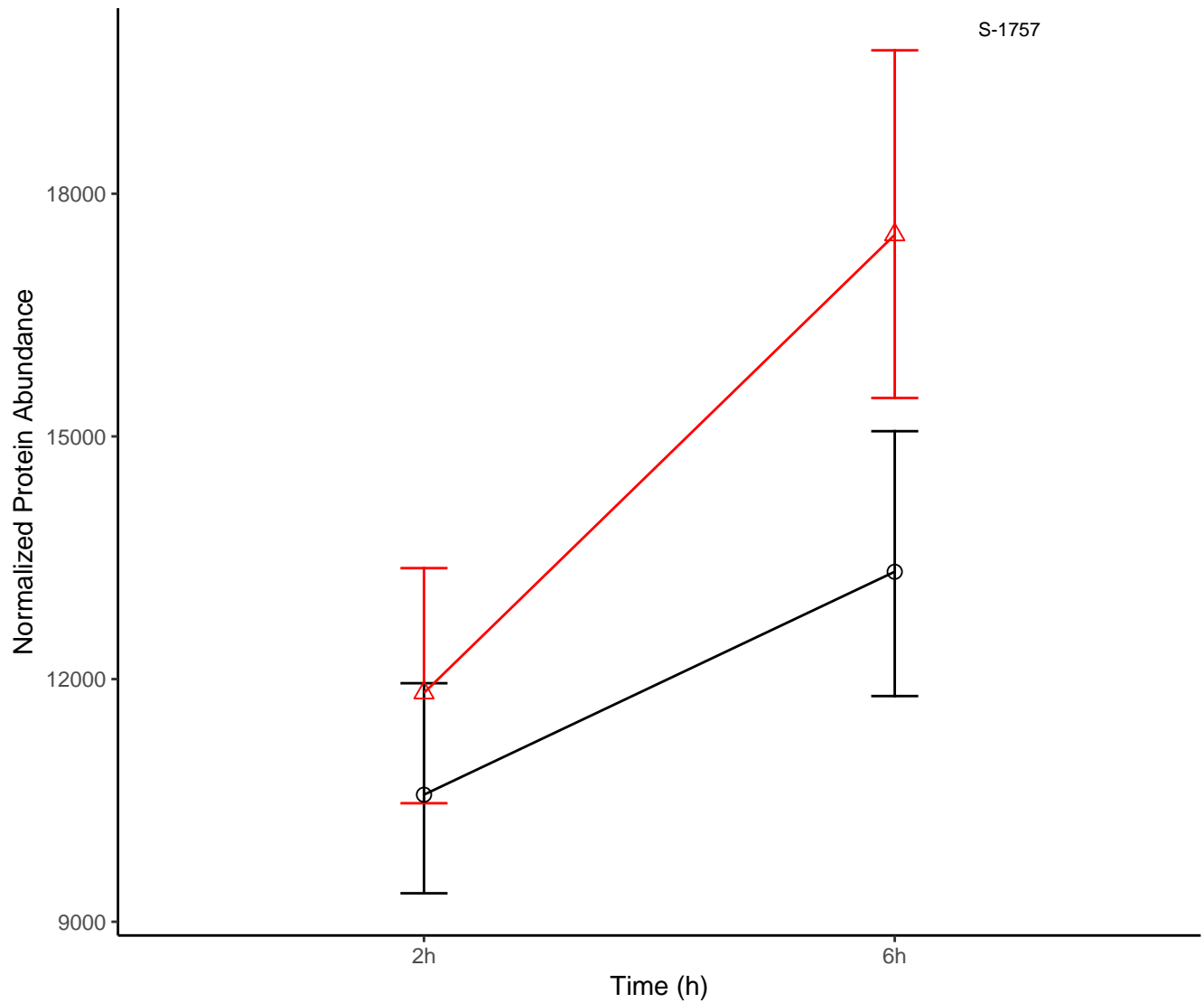


○ TSB-dex

△ TSB

# PEPVL\_STAAM

S-1757

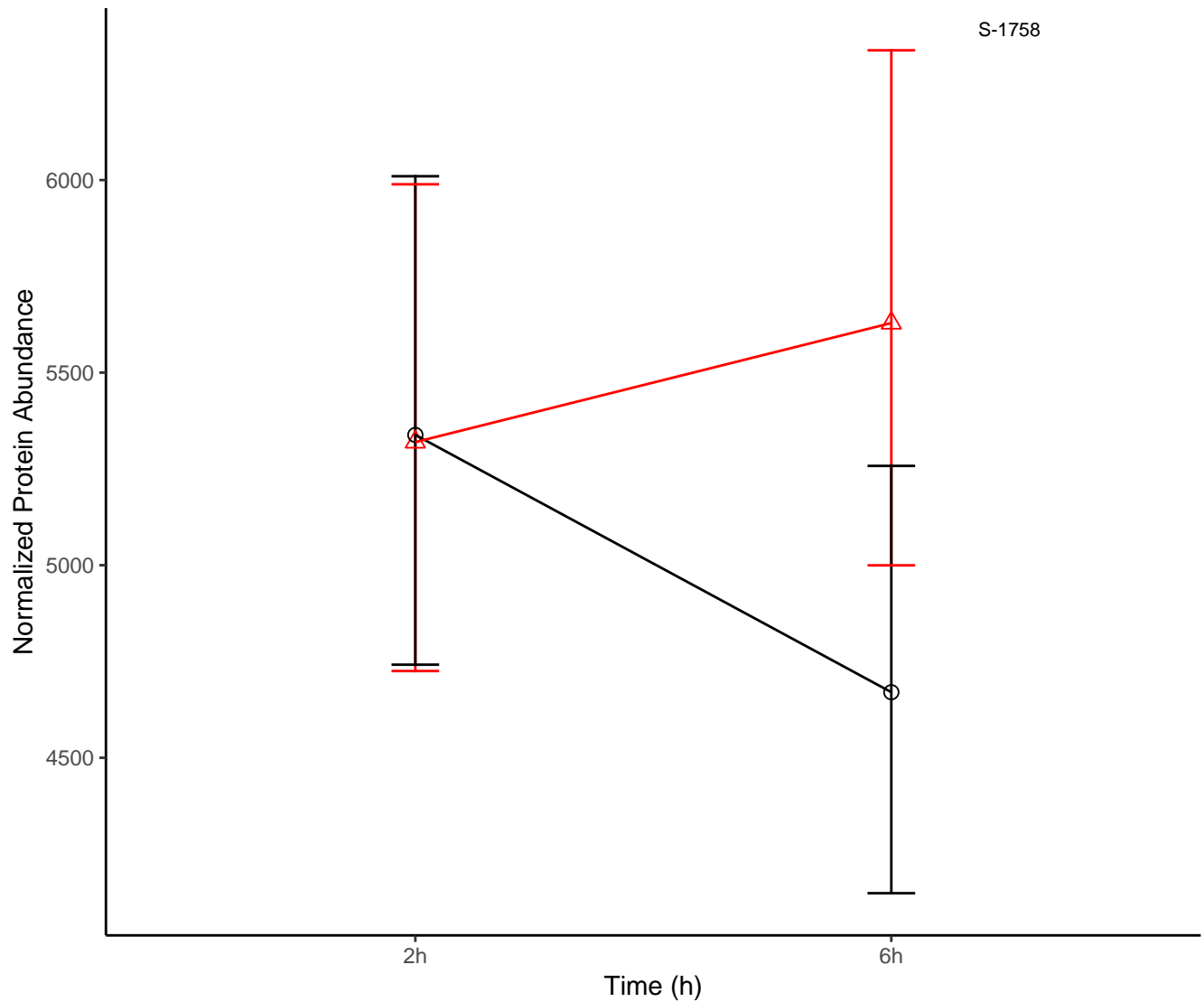


○ TSB-dex

△ TSB

# PERR\_STAAM

S-1758

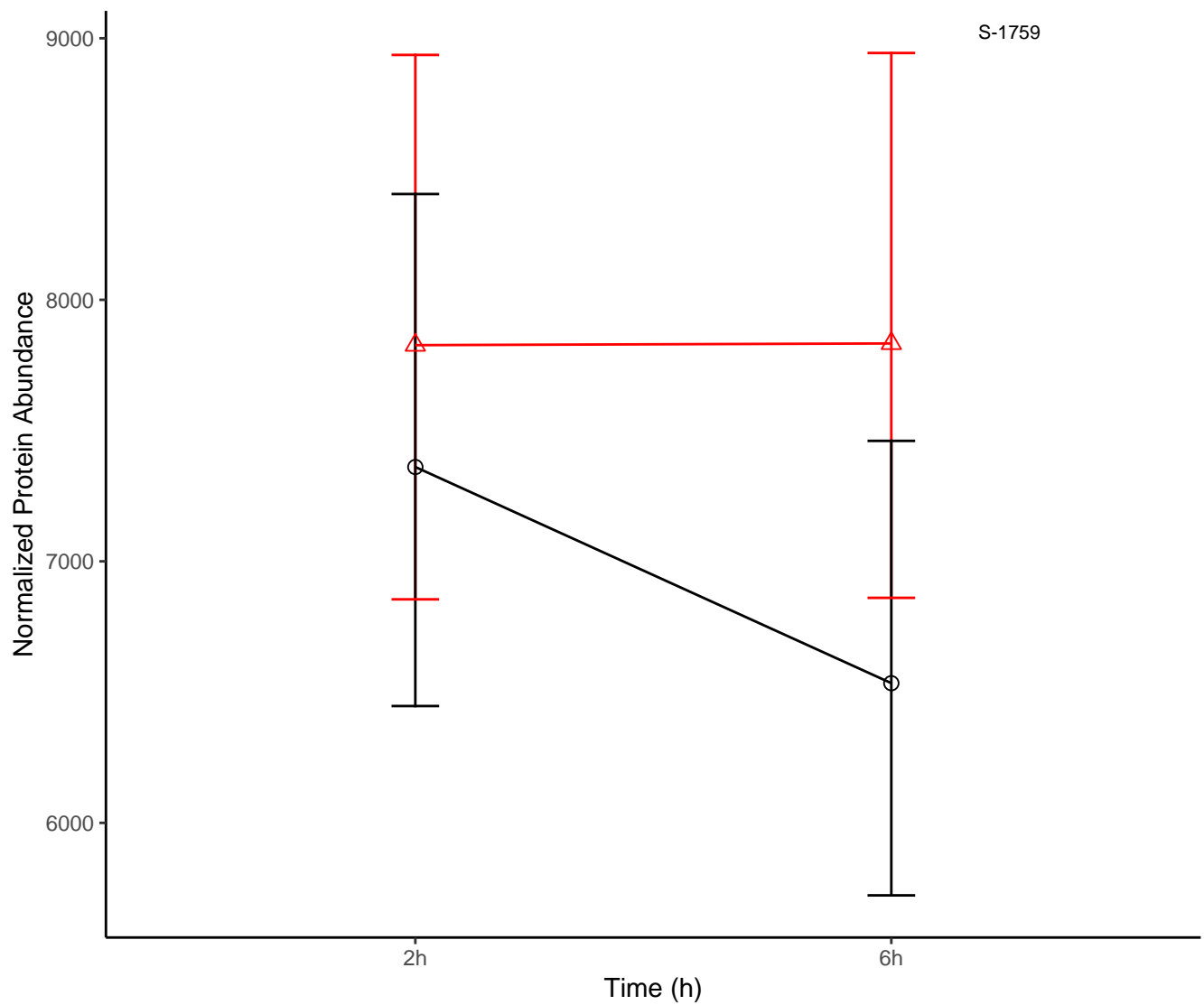


○ TSB-dex

△ TSB

# PFKA\_STAAM

S-1759

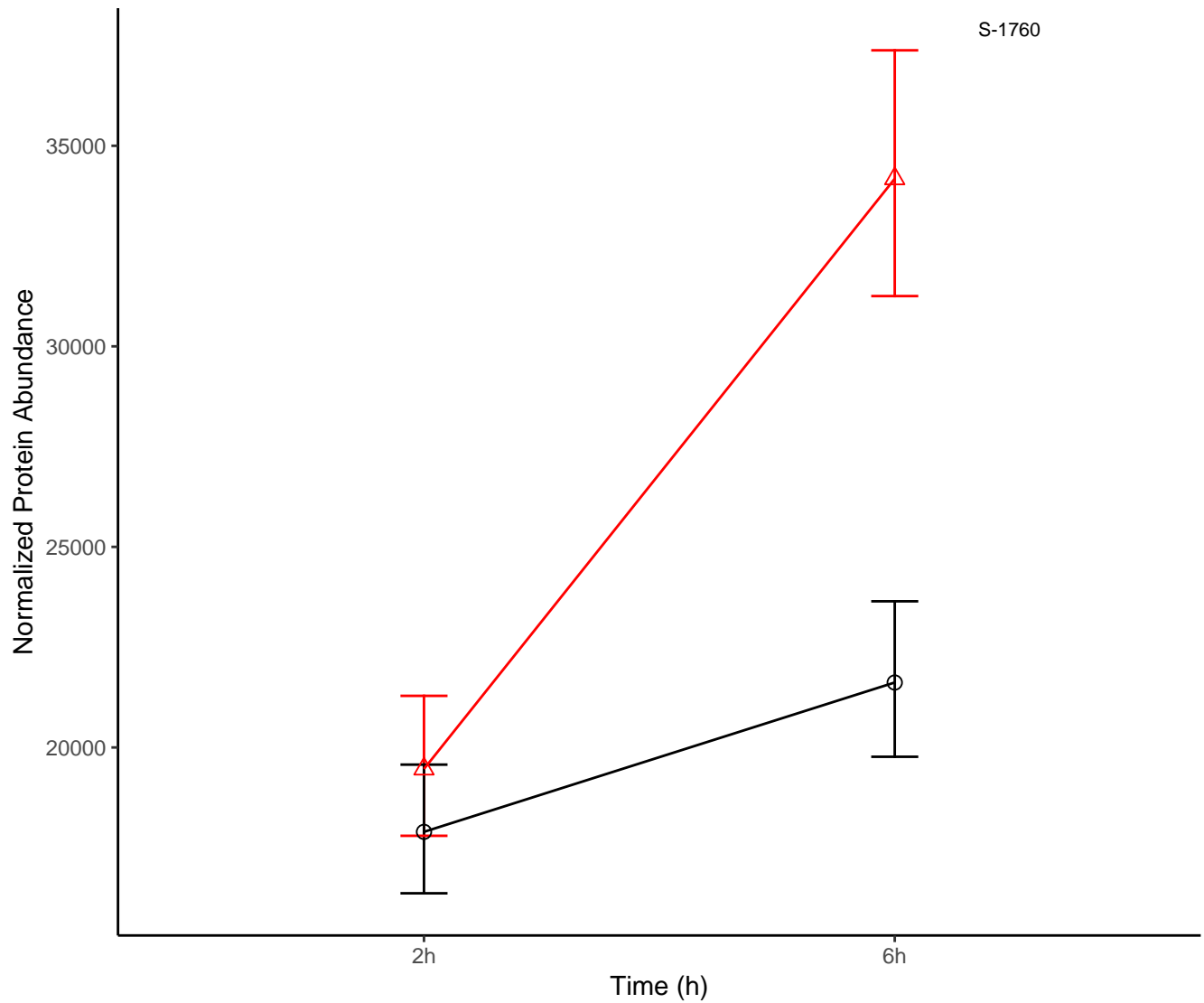


○ TSB-dex

△ TSB

# PFLA\_STAAM

S-1760



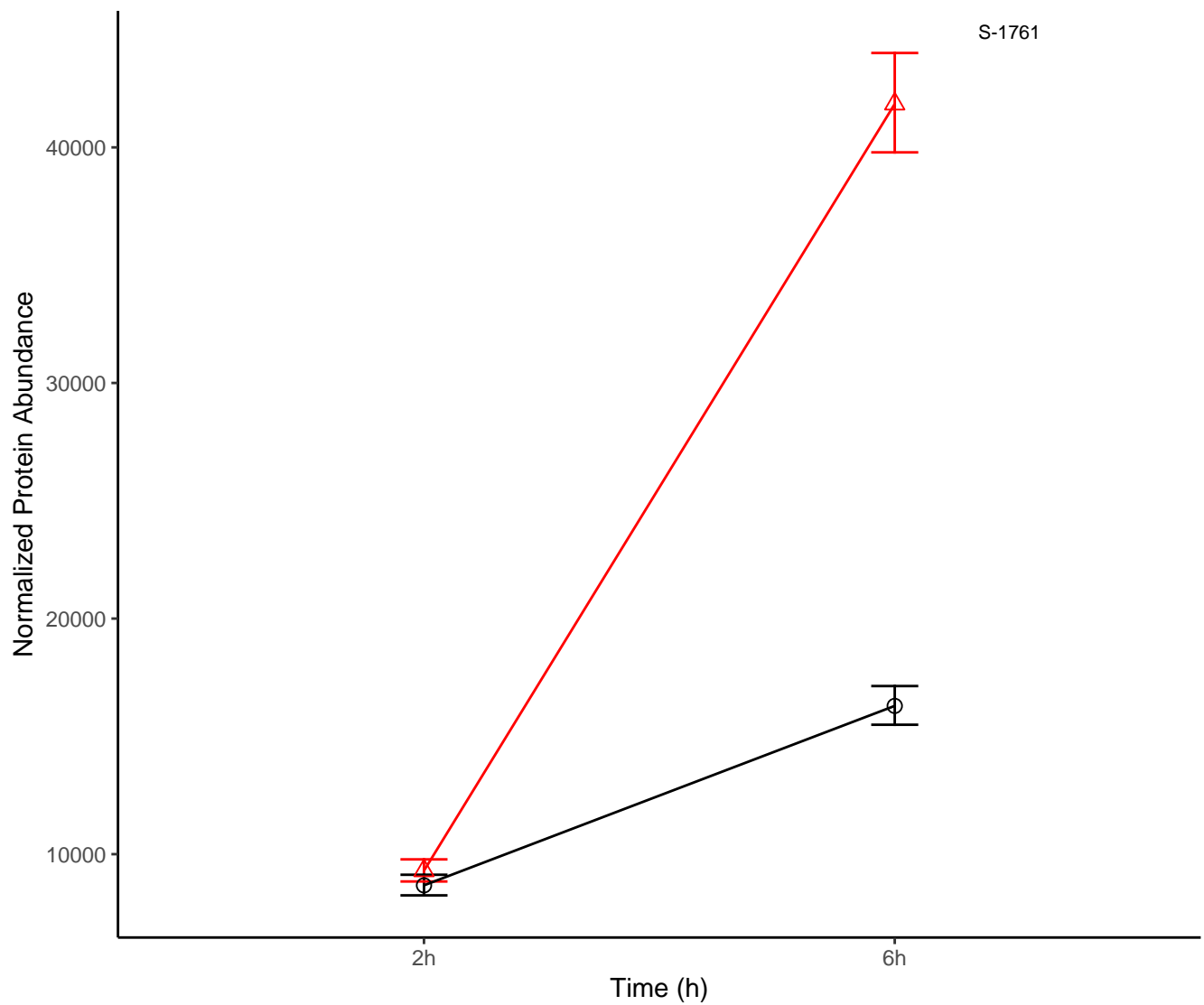
○ TSB-dex

△ TSB



# PFLB\_STAAM

S-1761

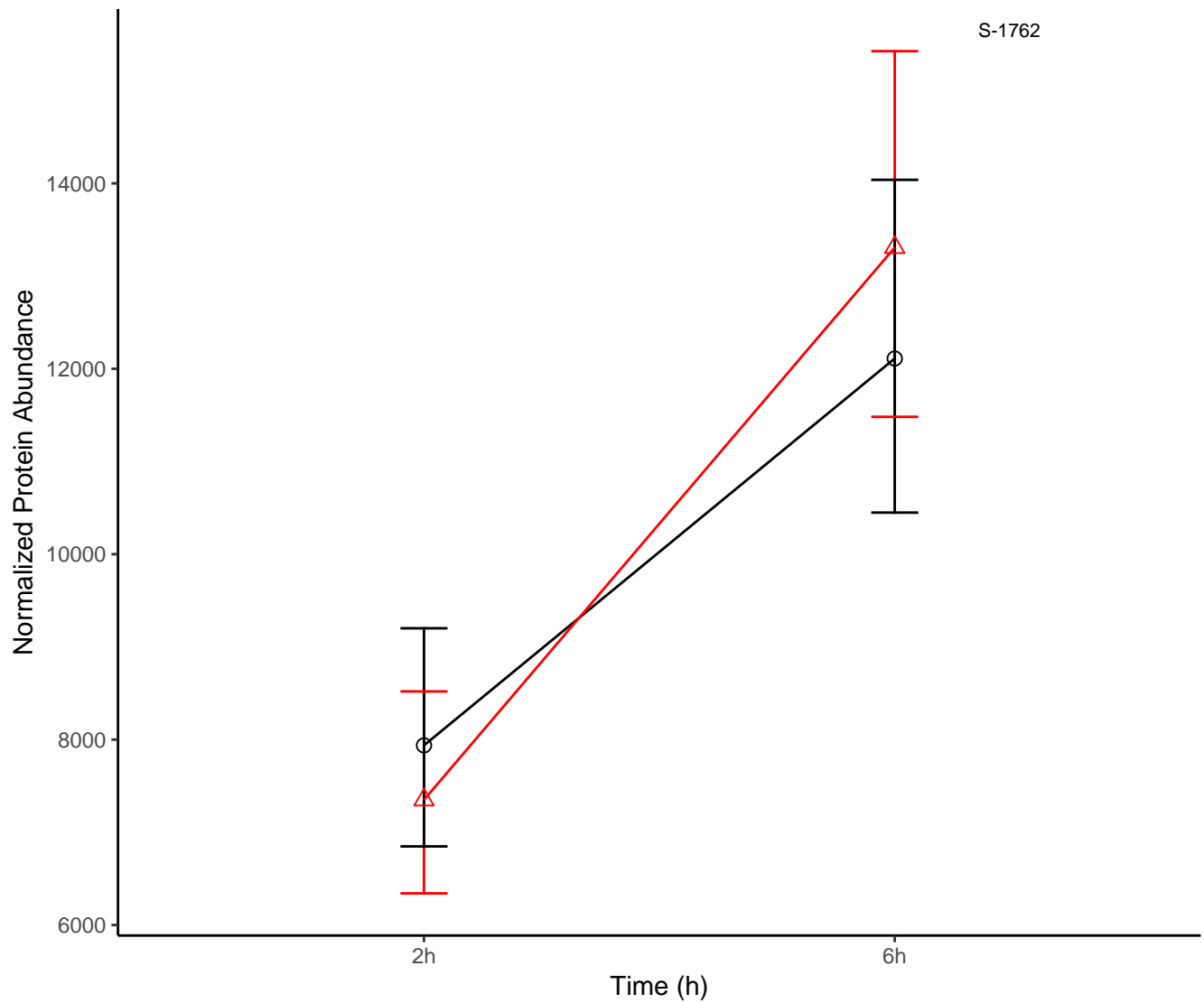


○ TSB-dex

△ TSB

# PGCA\_STAAM

S-1762

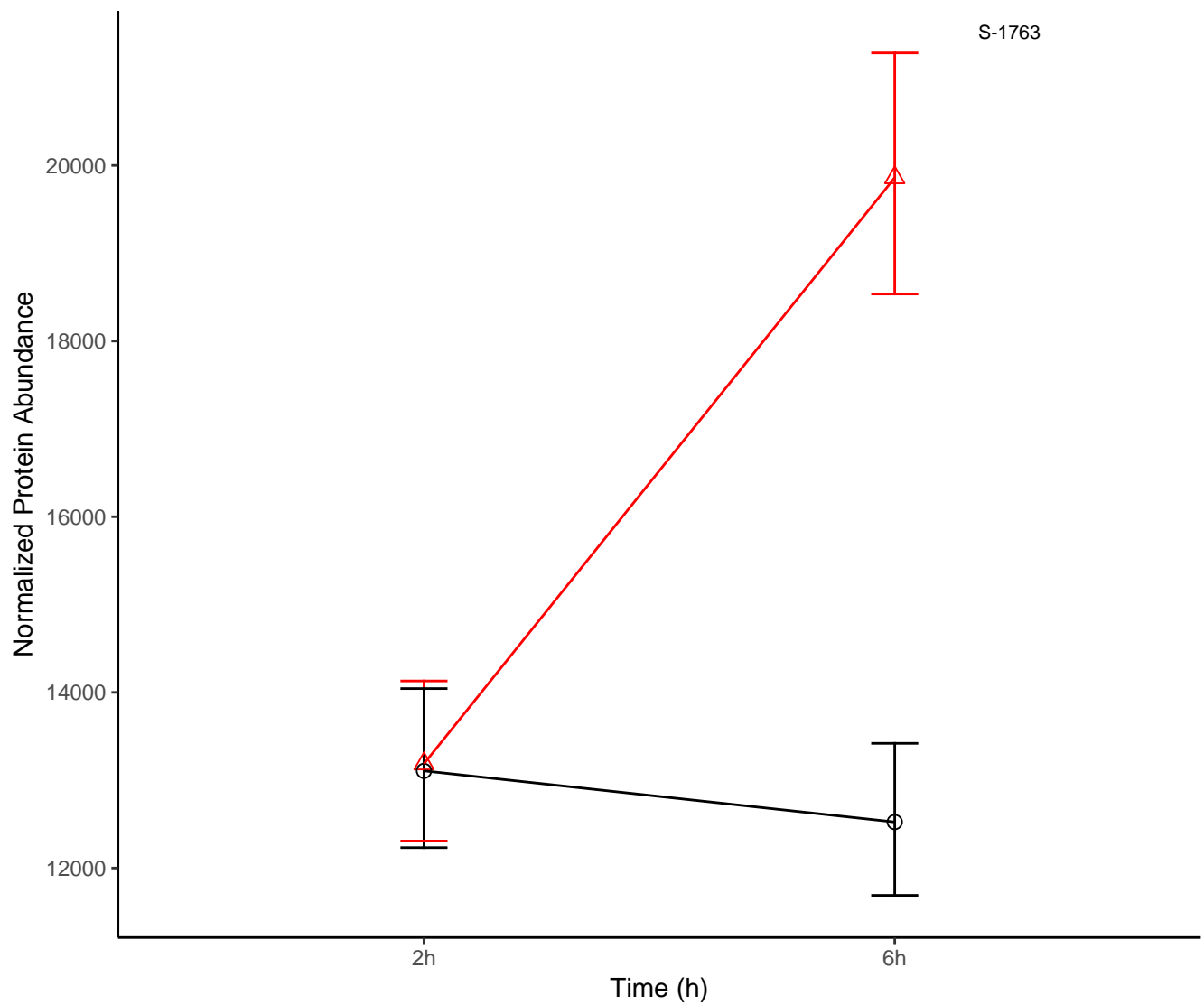


○ TSB-dex

△ TSB

# PGK\_STAAM

S-1763

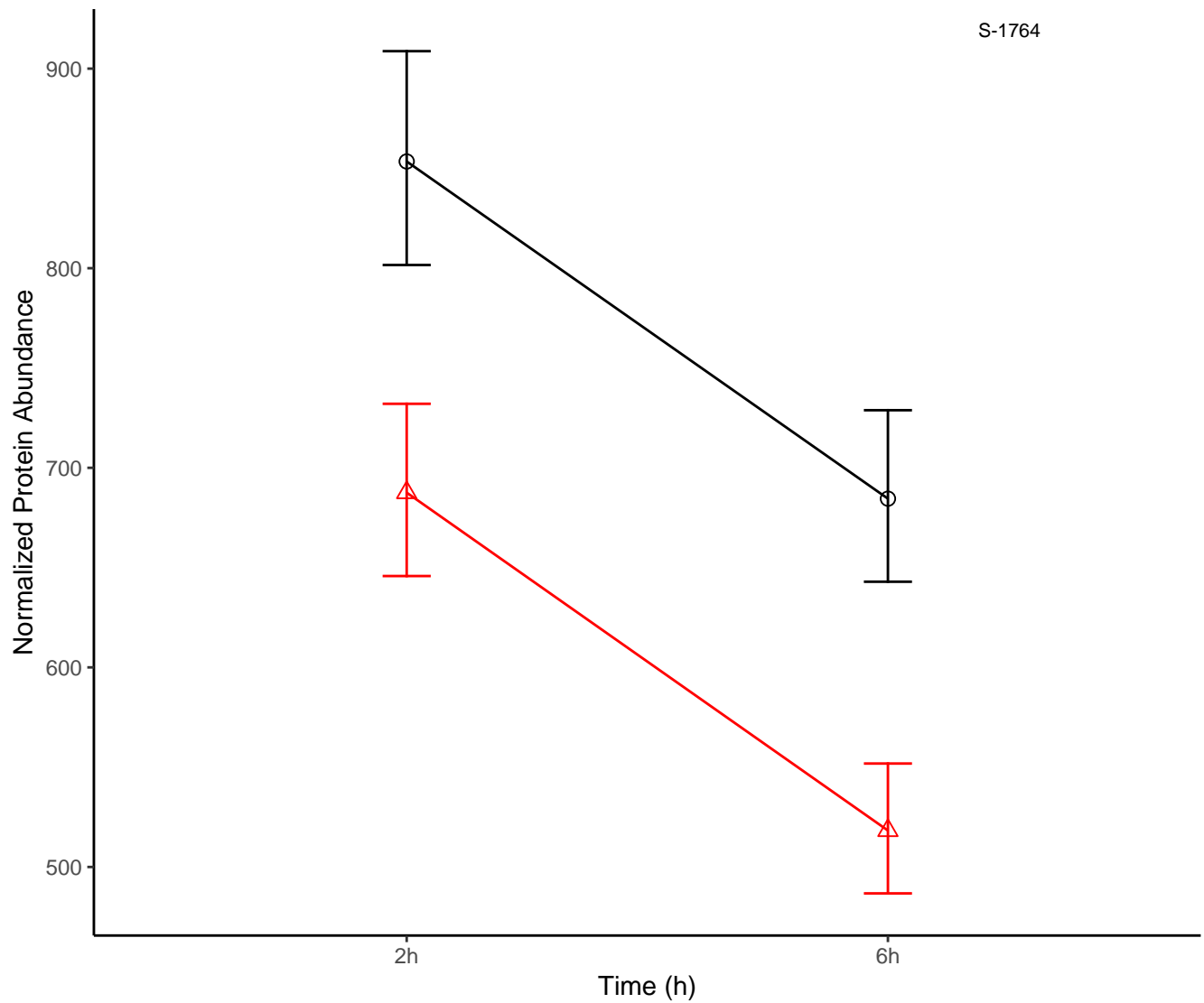


○ TSB-dex

△ TSB

# PHNC\_STAAM

S-1764

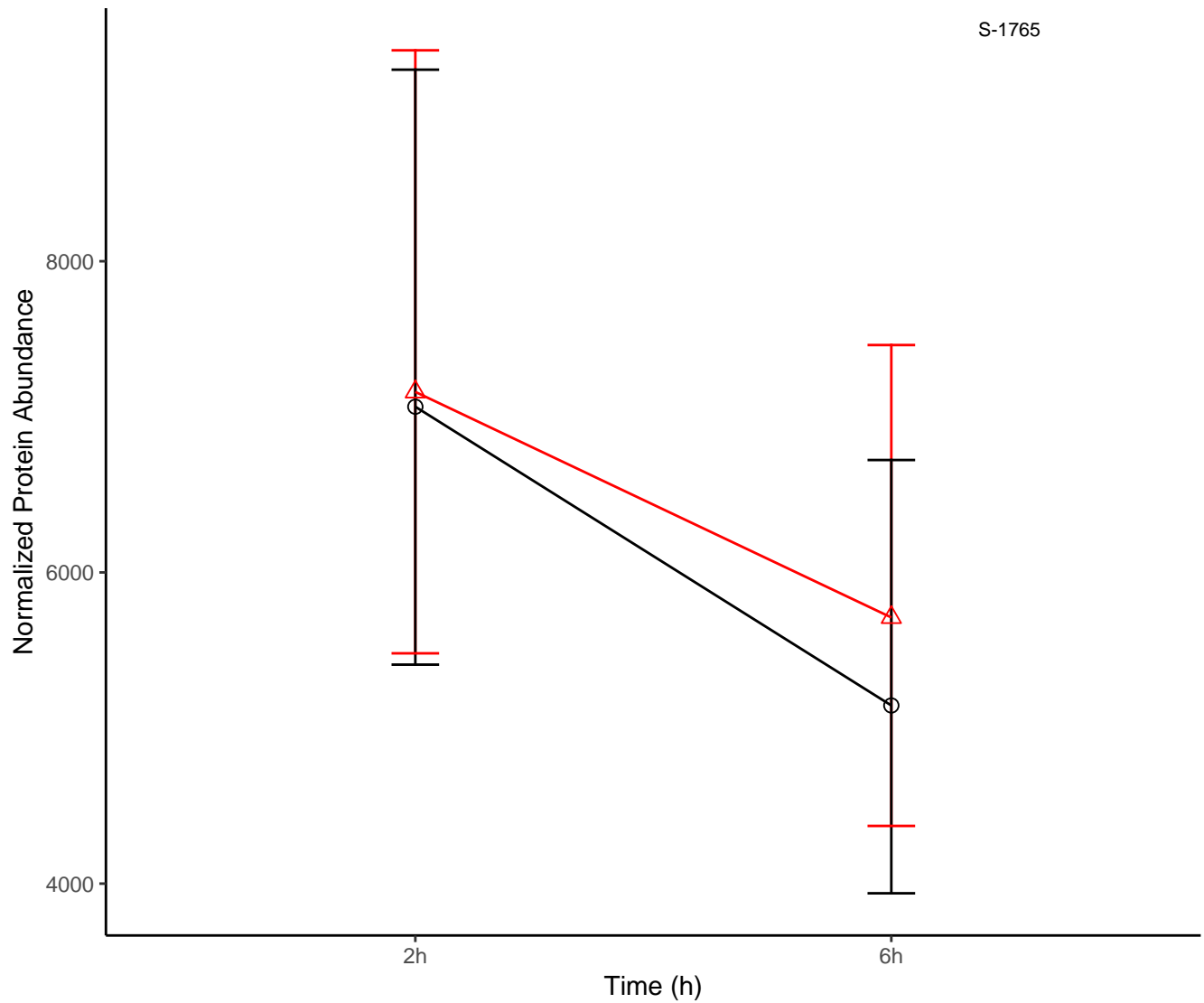


○ TSB-dex

△ TSB

# PLSX\_STAAM

S-1765

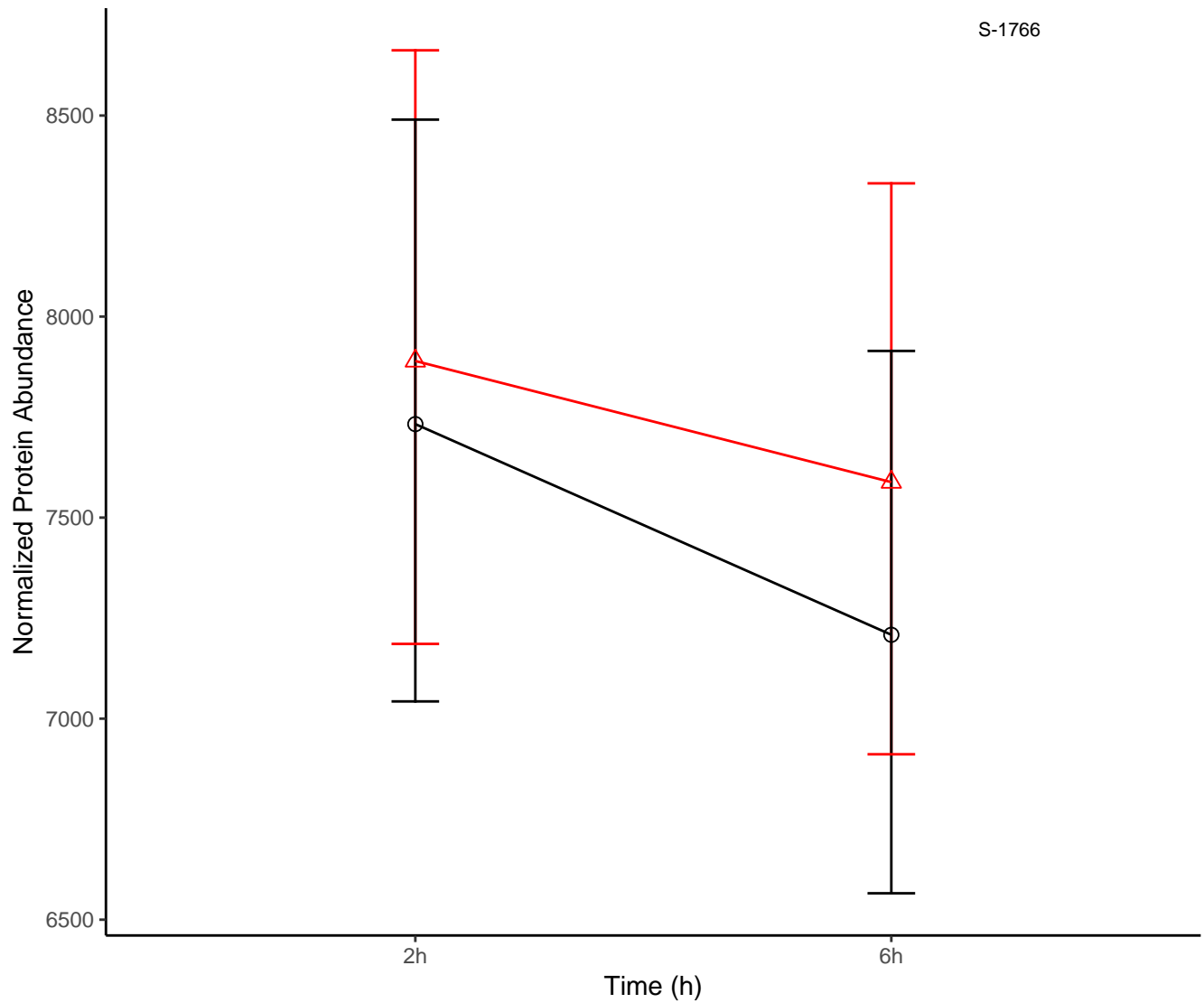


○ TSB-dex

△ TSB

# PNP\_STAAM

S-1766

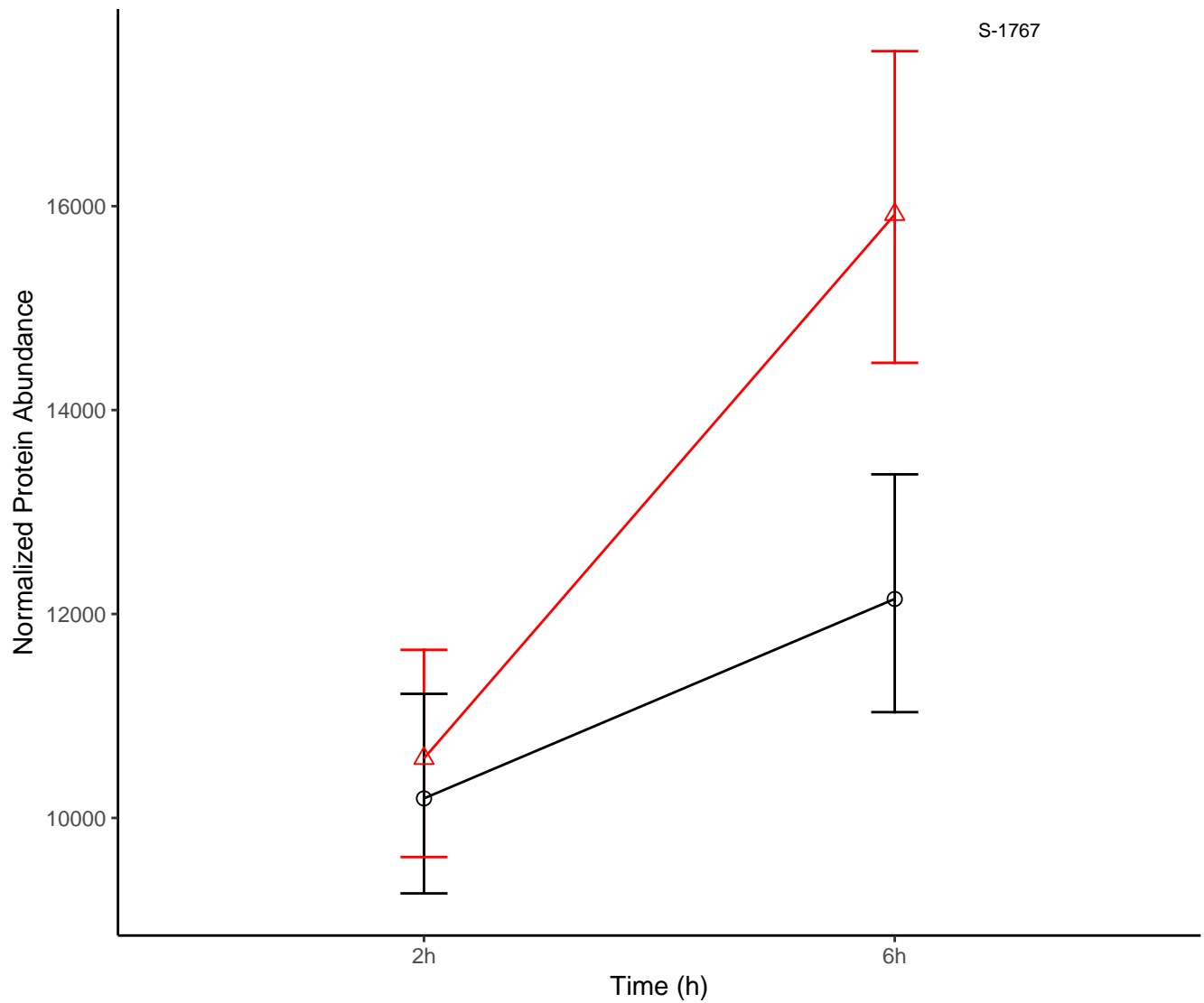


○ TSB-dex

△ TSB

# PPAC\_STAAM

S-1767

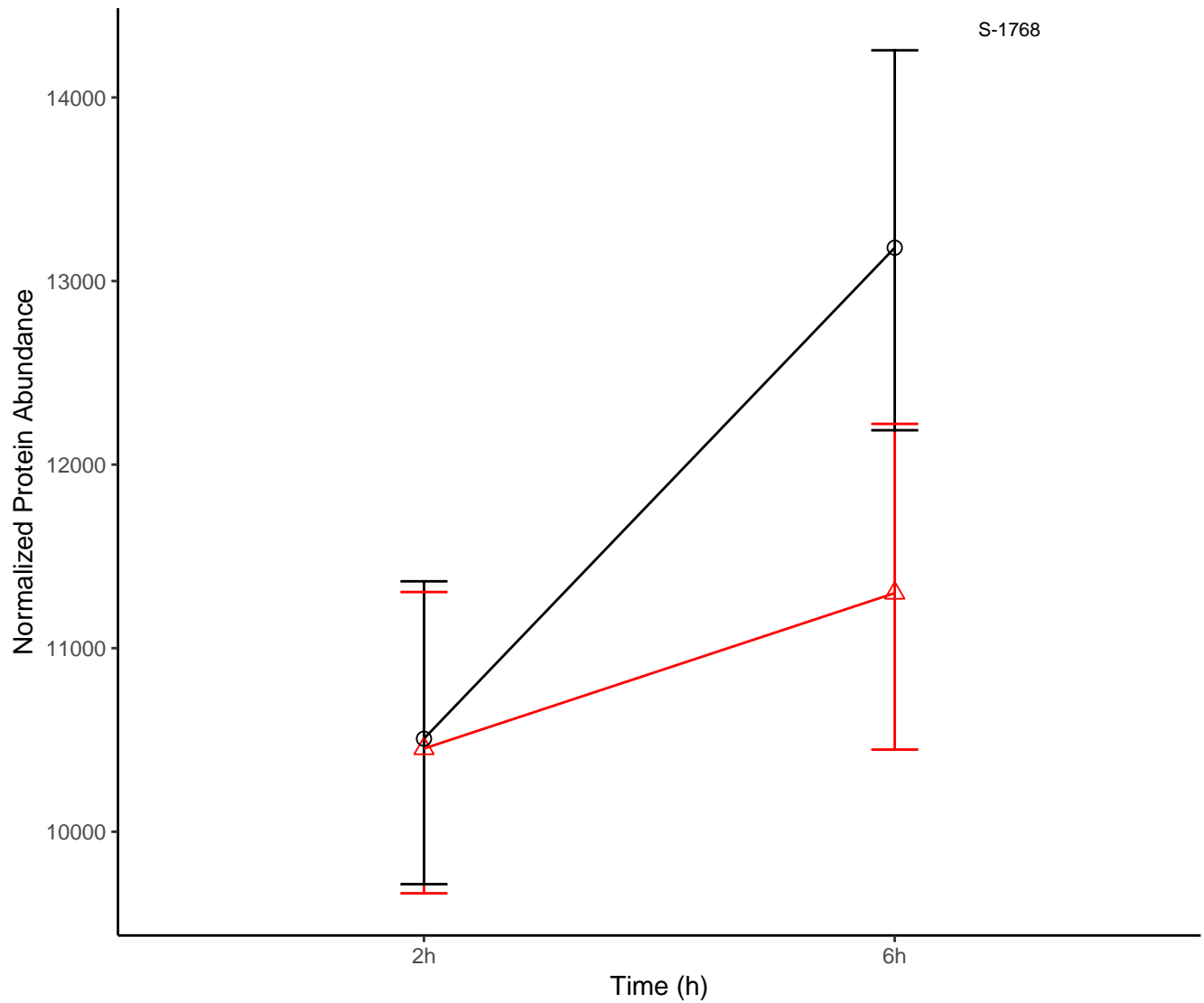


○ TSB-dex

△ TSB

# PPAT\_STAAM

S-1768



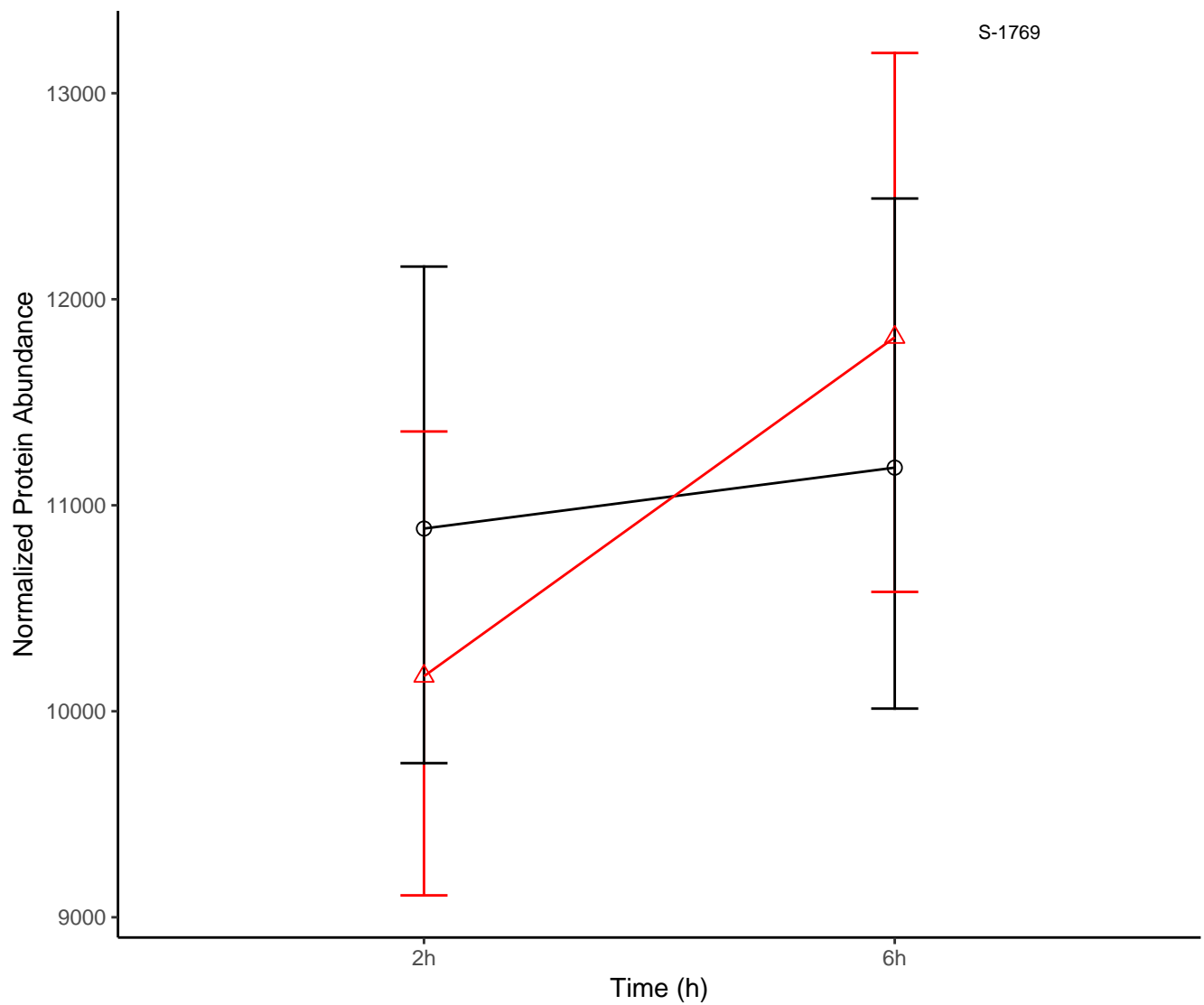
○ TSB-dex

△ TSB



# PPI1\_STAAM

S-1769

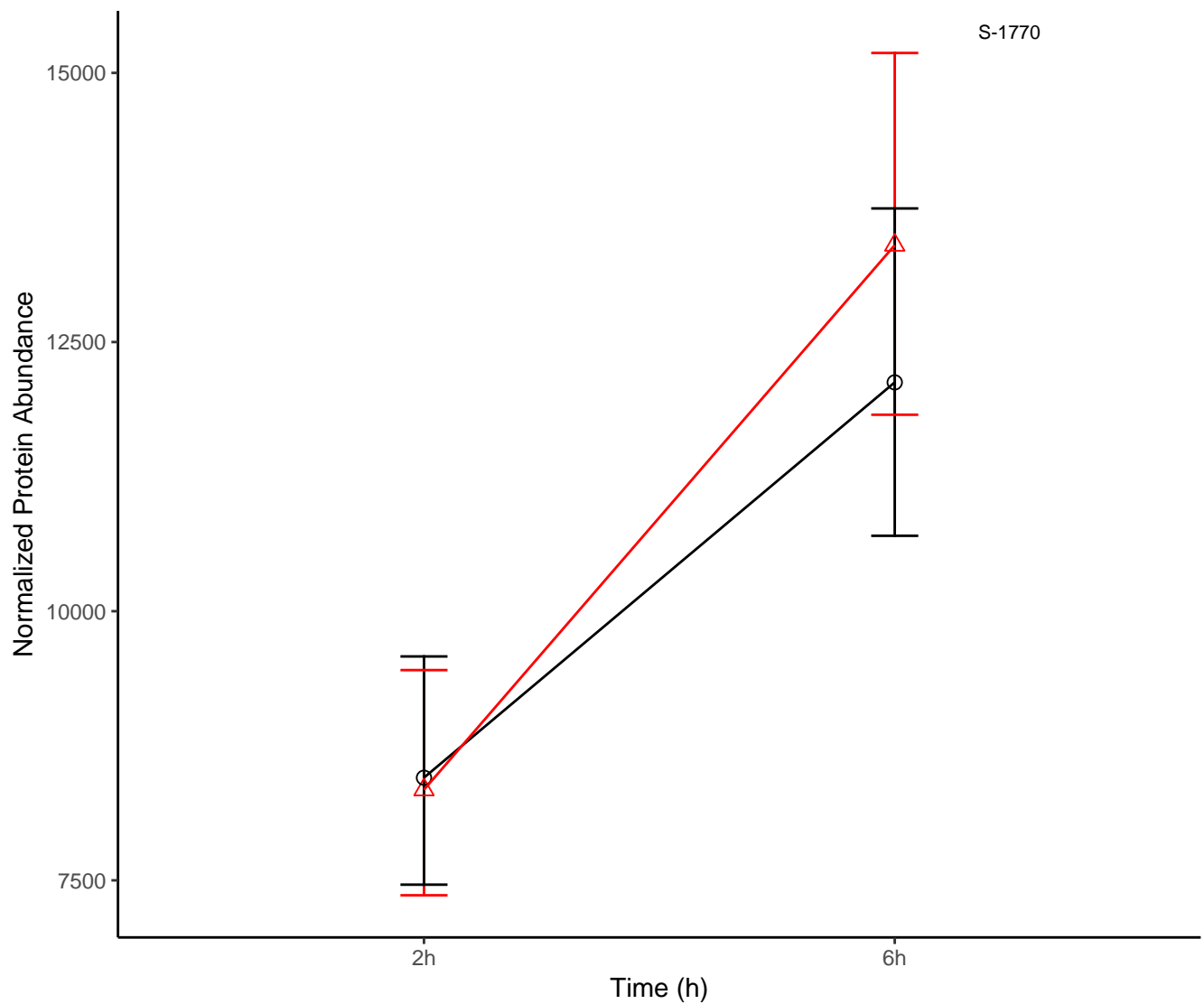


○ TSB-dex

△ TSB

# PRSA\_STAAM

S-1770

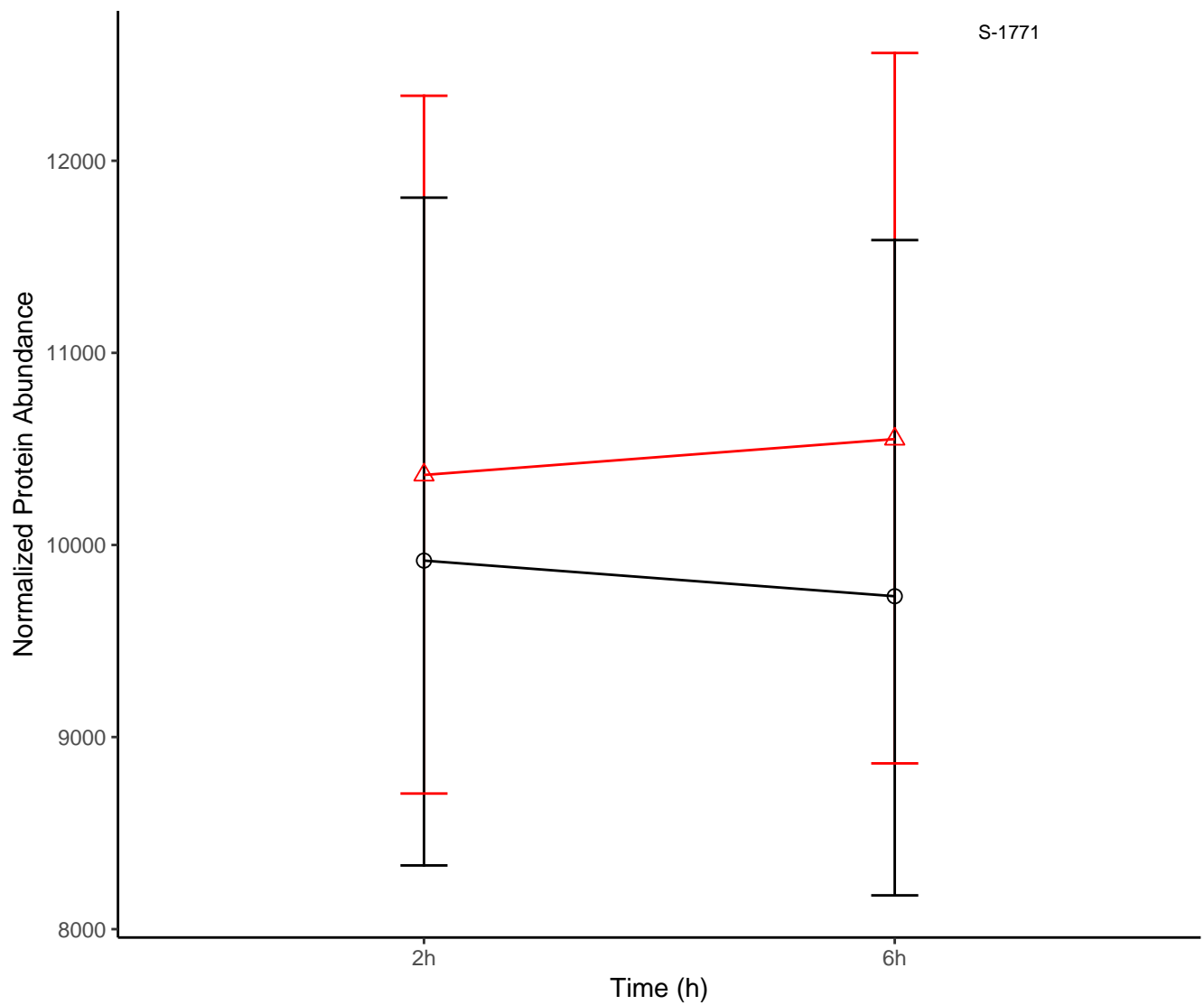


○ TSB-dex

△ TSB

# PSTB\_STAAM

S-1771

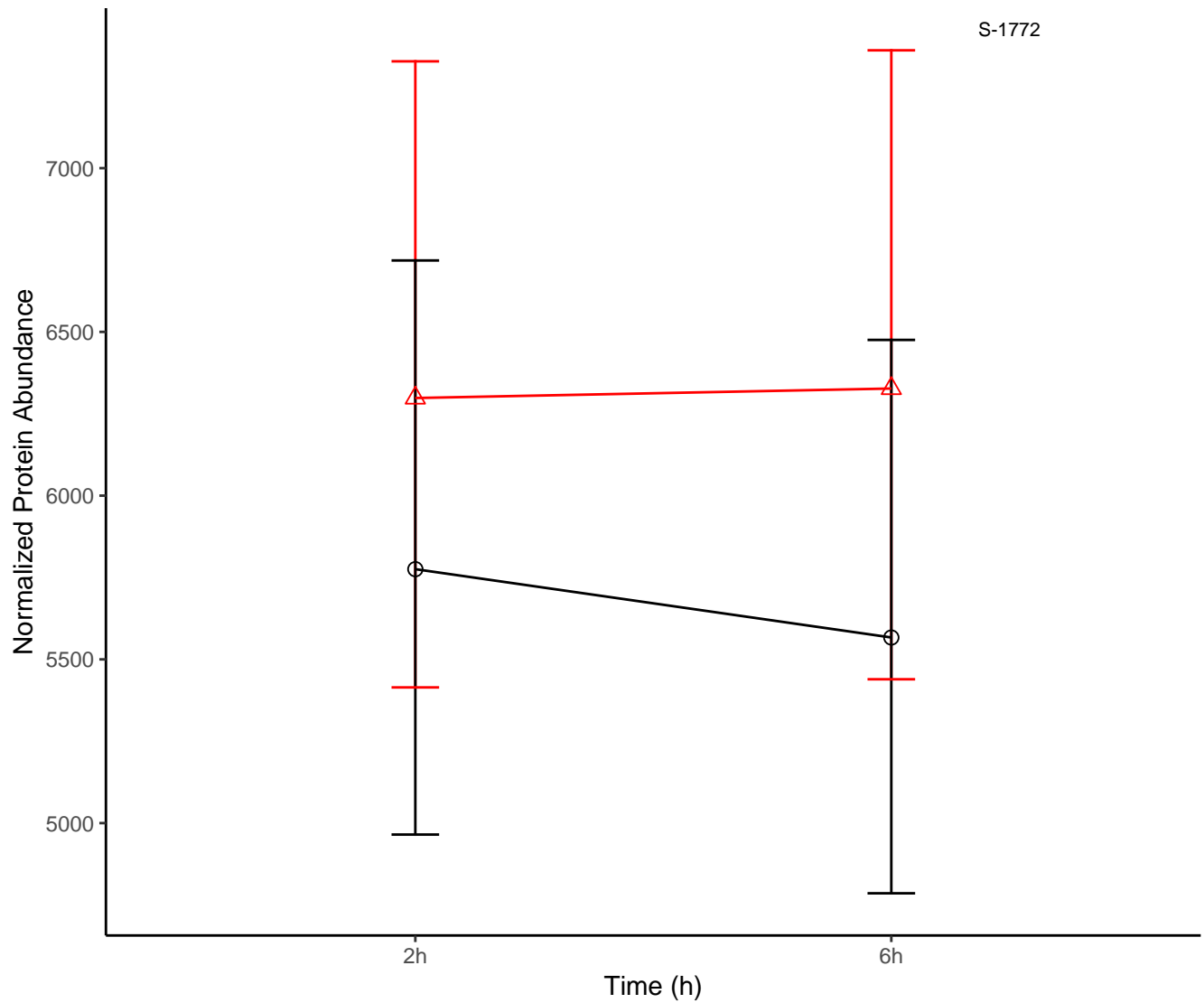


○ TSB-dex

△ TSB

# PSTS\_STAAM

S-1772

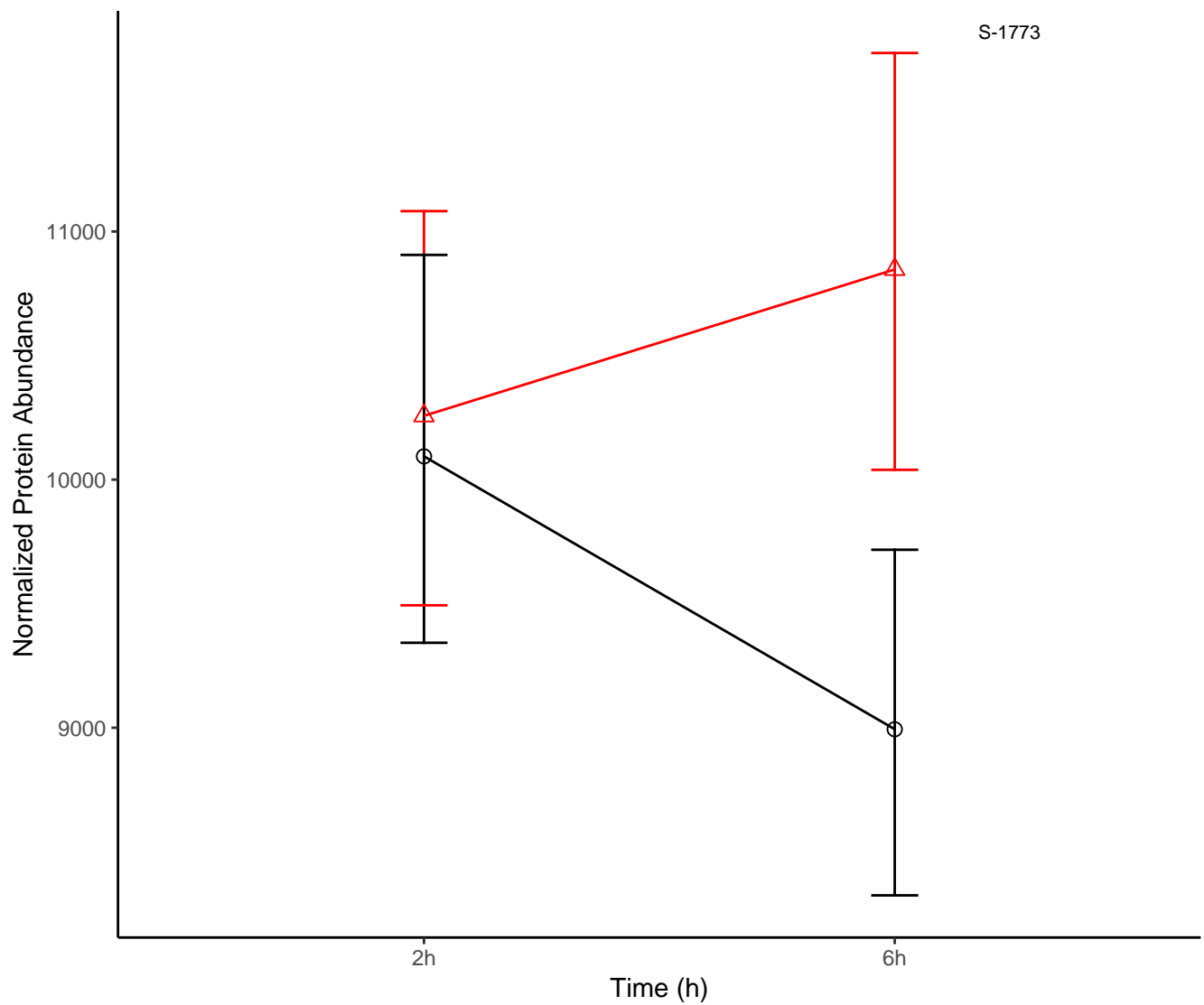


○ TSB-dex

△ TSB

# PT1\_STAAM

S-1773

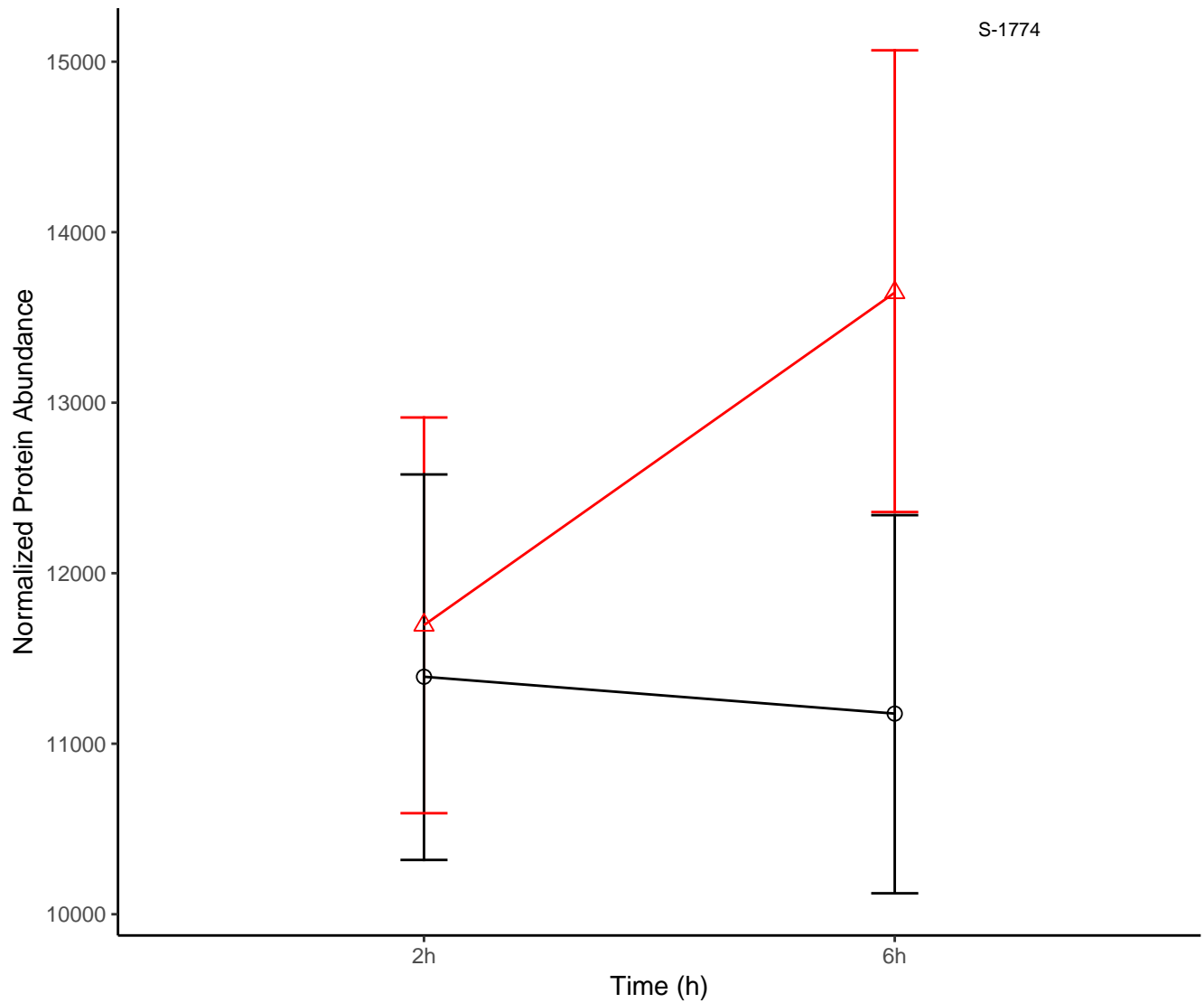


○ TSB-dex

△ TSB

# PTAS\_STAAM

S-1774

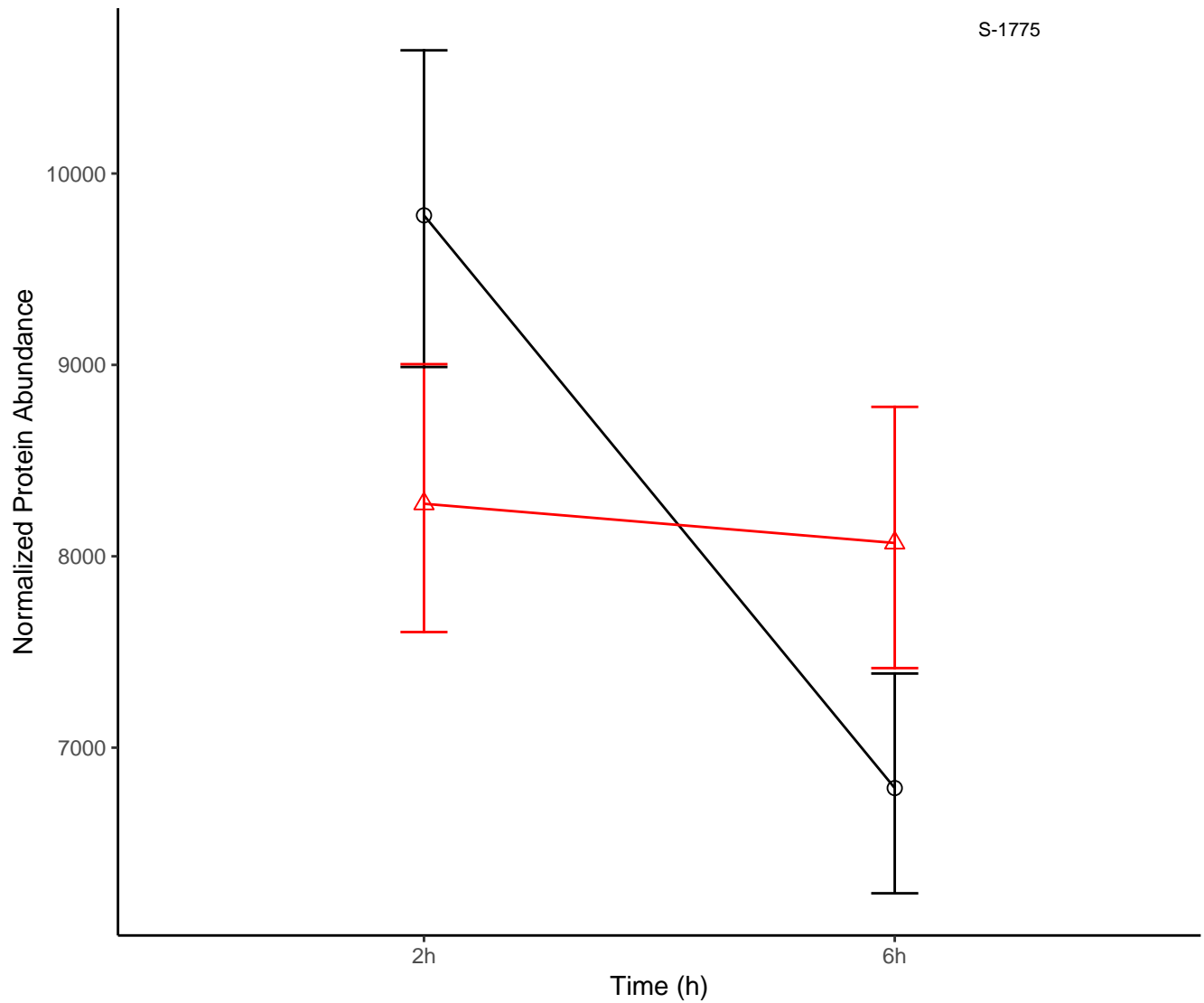


○ TSB-dex

△ TSB

# PTG3C\_STAAM

S-1775

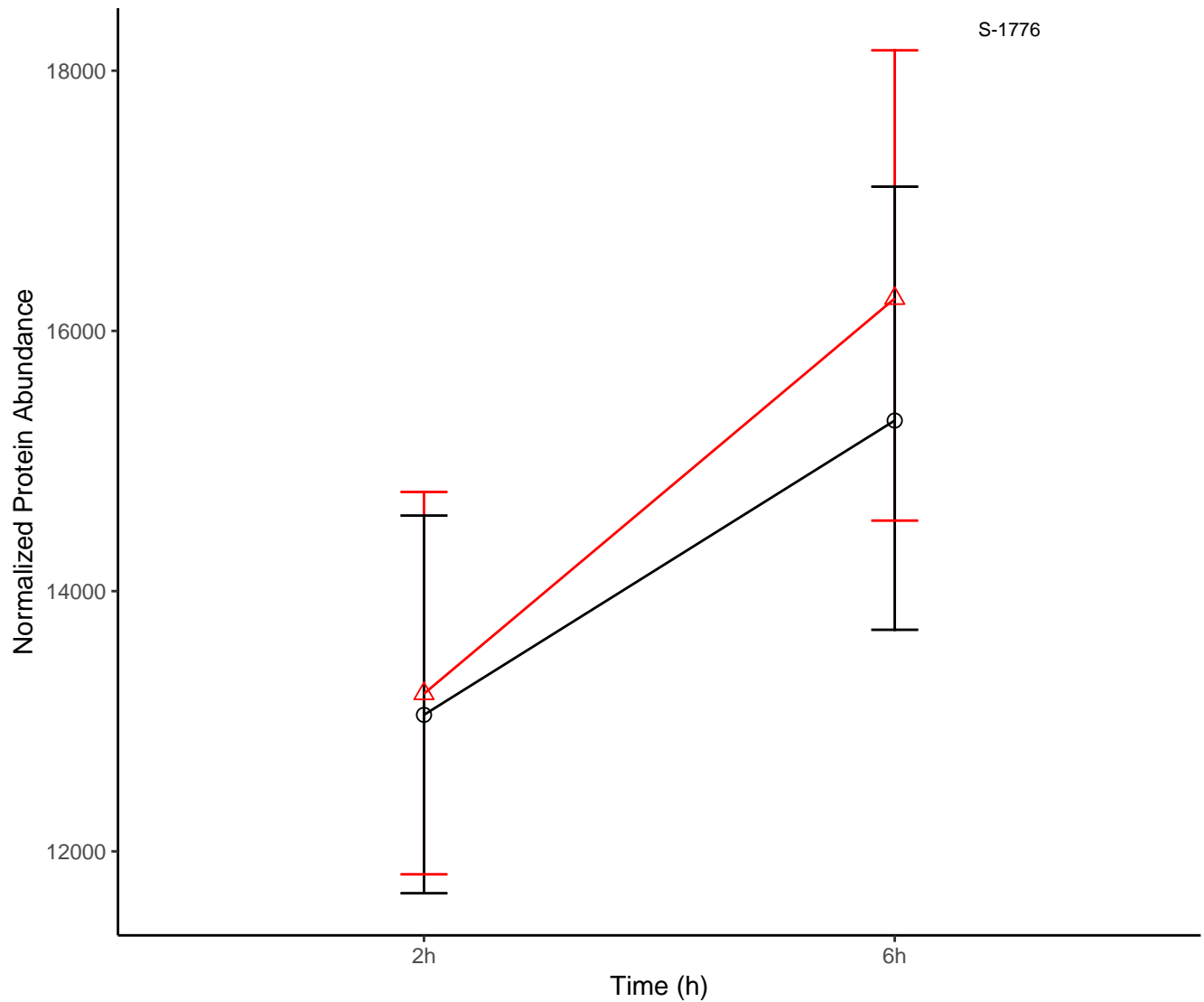


○ TSB-dex

△ TSB

# PTGA\_STAAM

S-1776



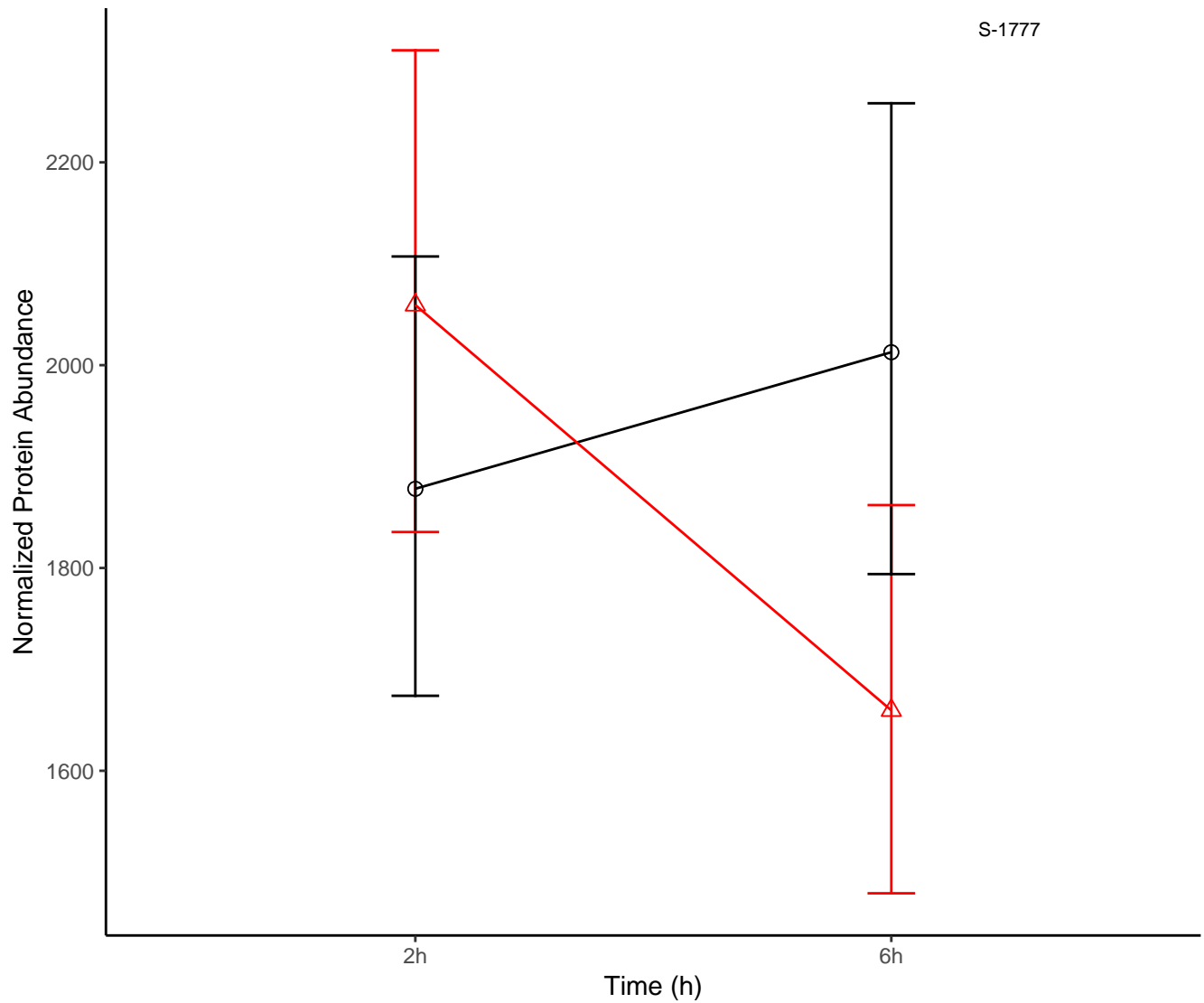
○ TSB-dex

△ TSB



# PTH\_STAAM

S-1777

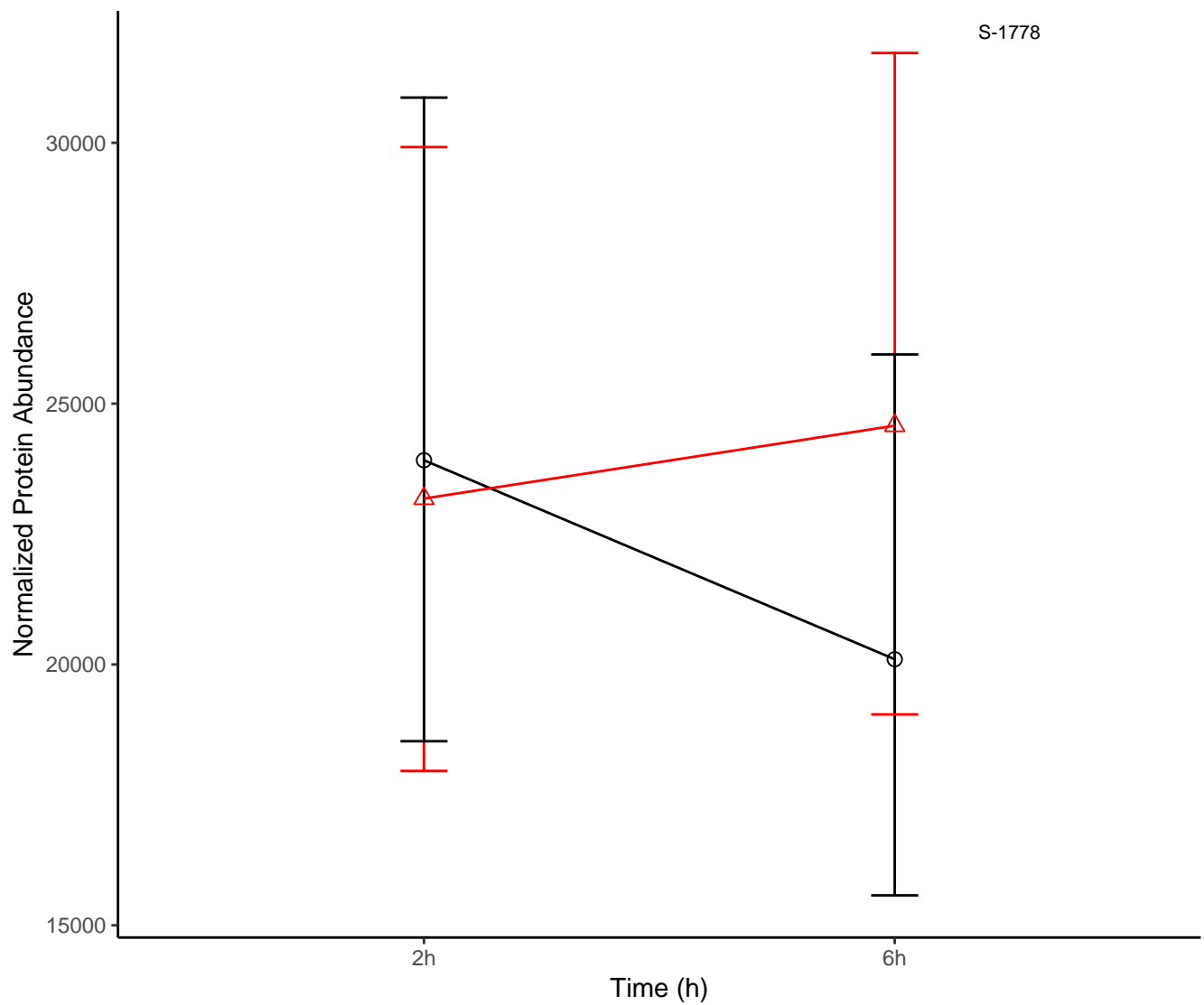


○ TSB-dex

△ TSB

# PTHP\_STAAM

S-1778

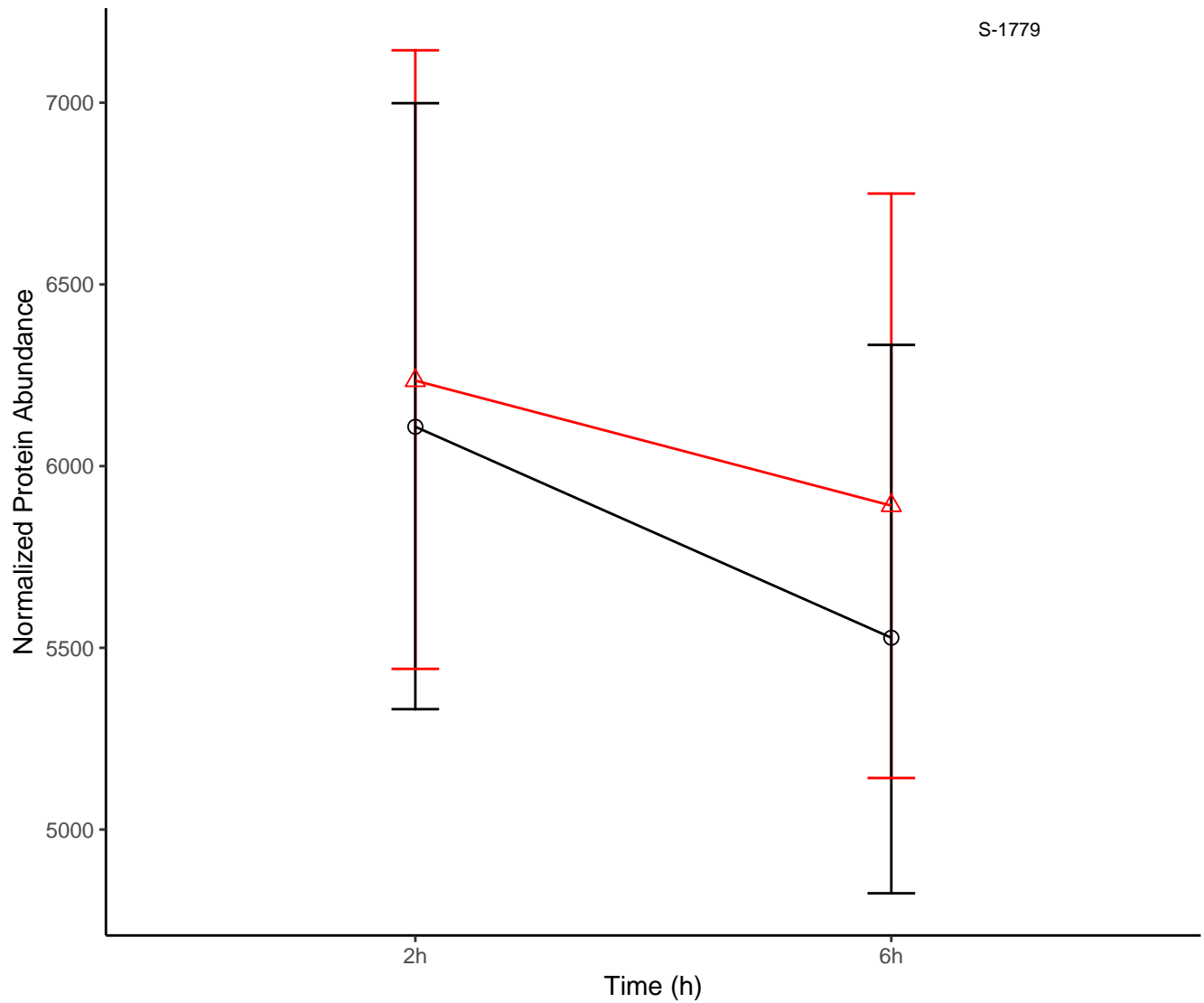


○ TSB-dex

△ TSB

# PTMA\_STAAM

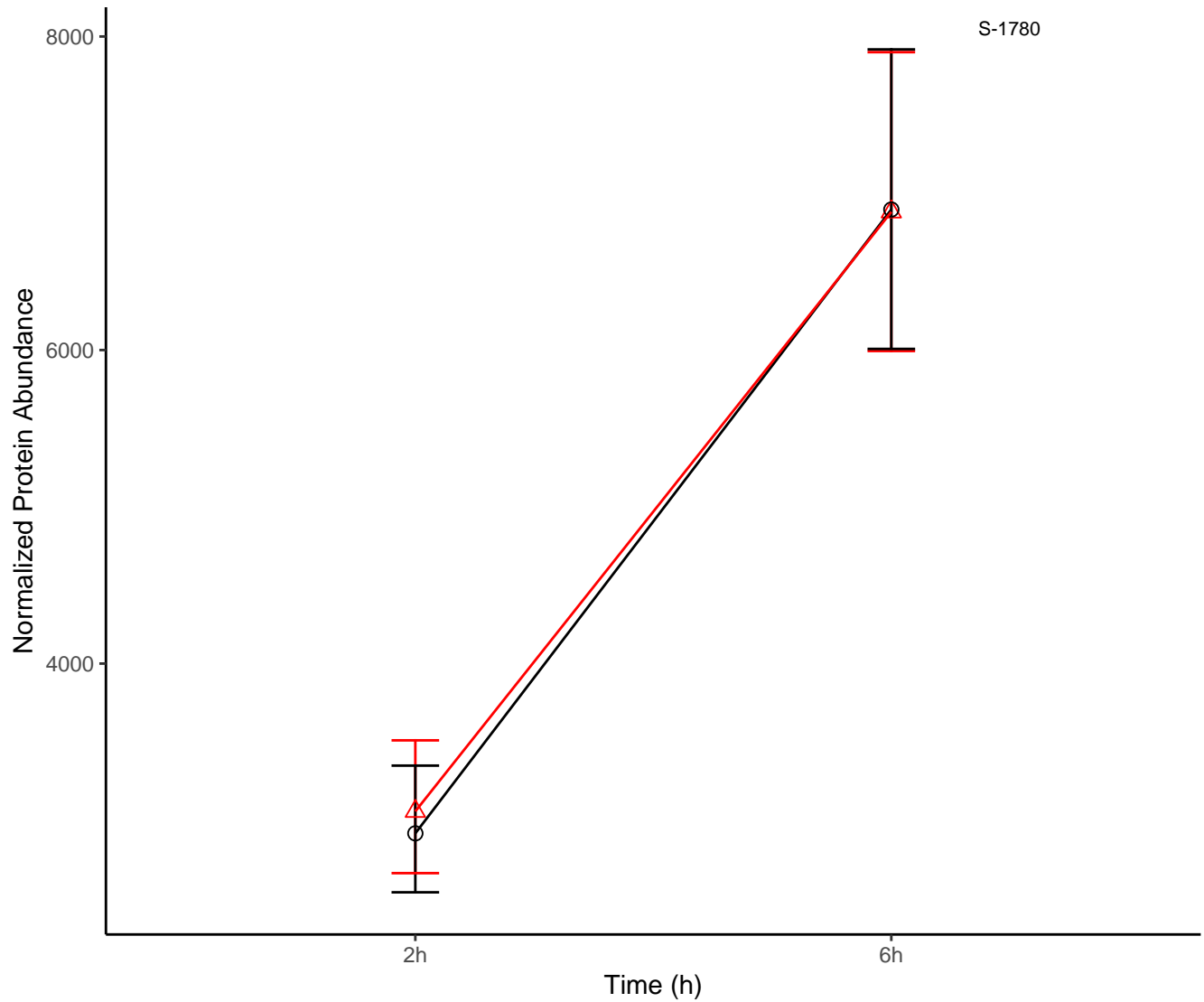
S-1779



○ TSB-dex

△ TSB

# PUR1\_STAAM

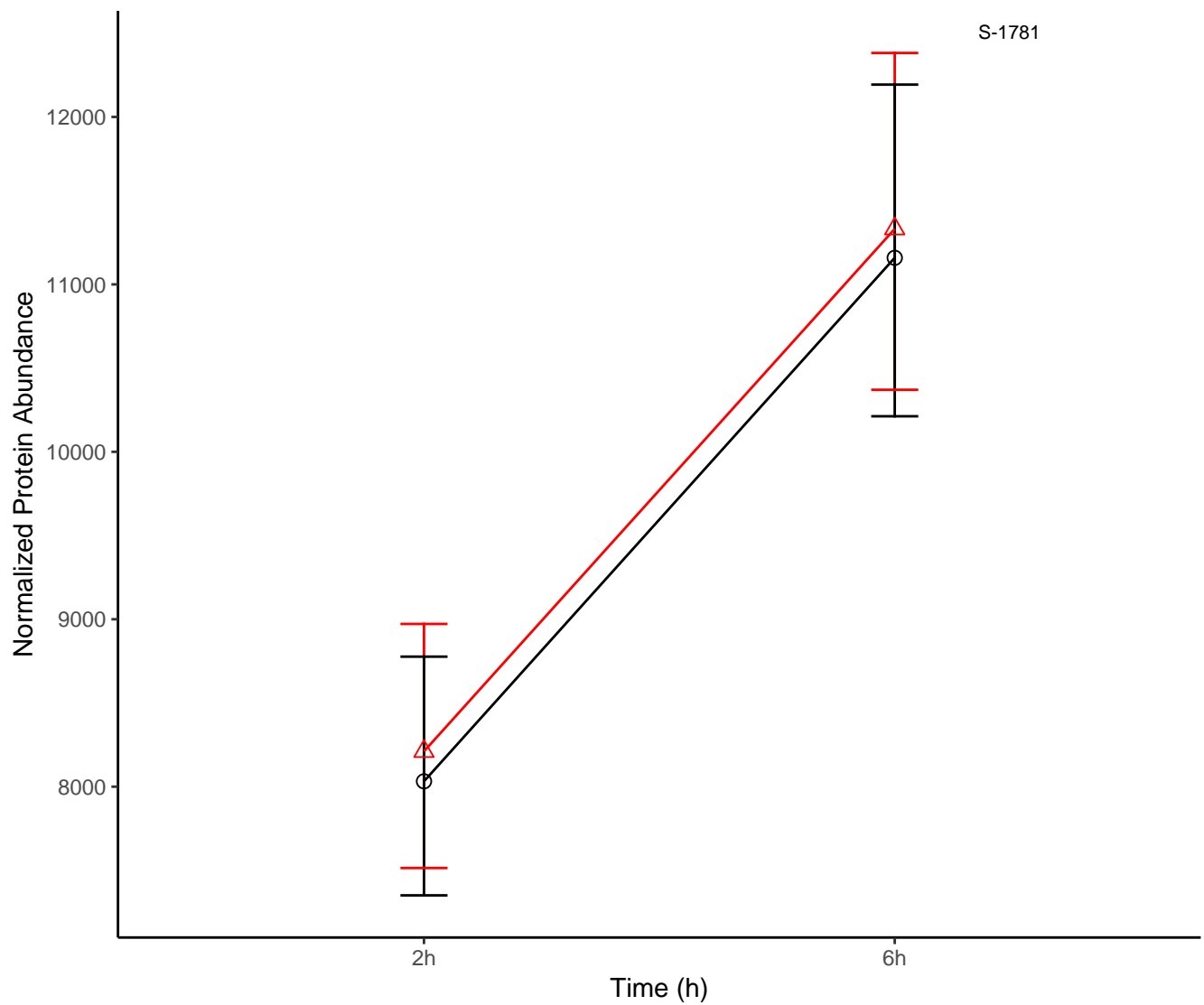


○ TSB-dex

△ TSB

# PUR2\_STAAM

S-1781

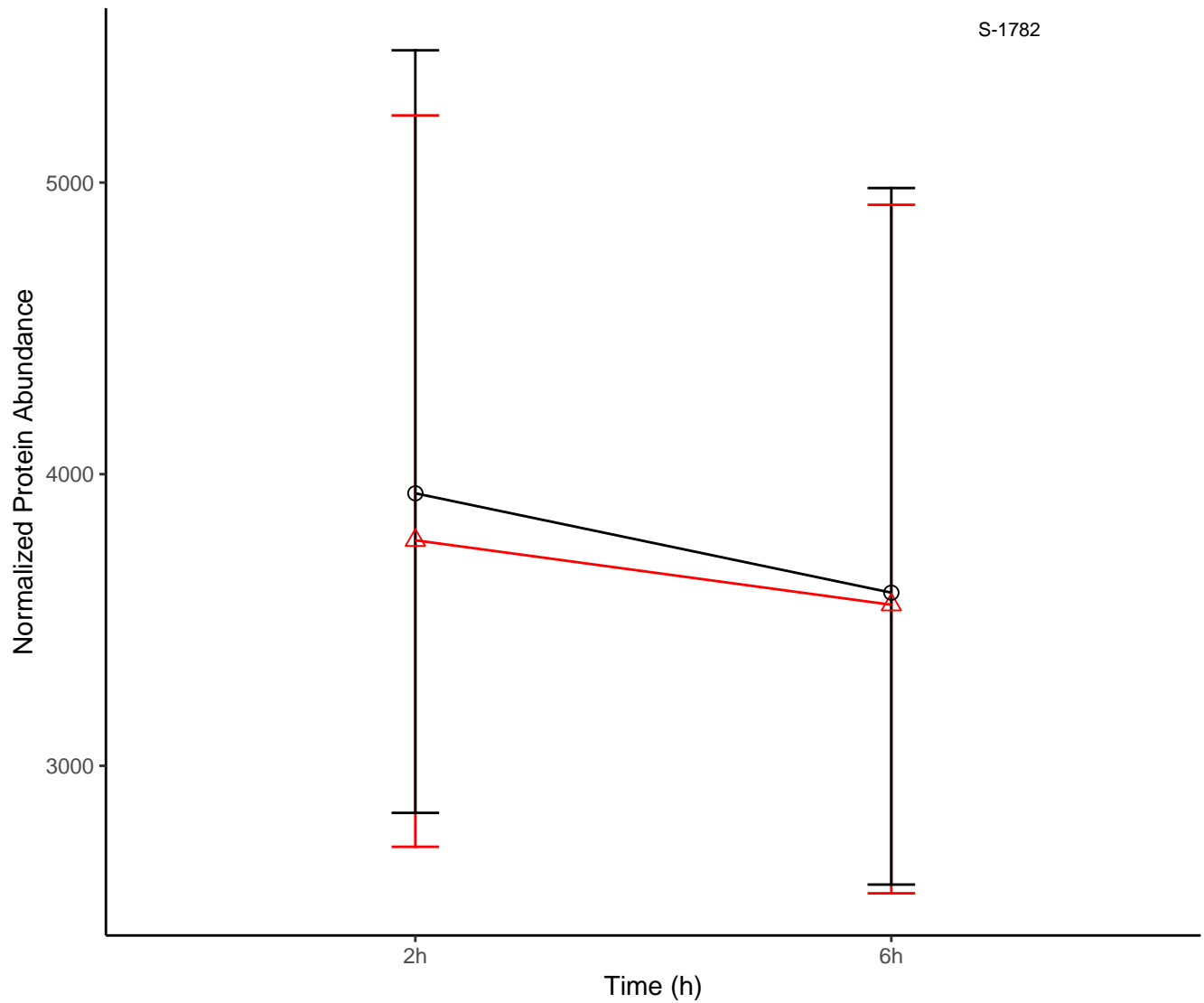


○ TSB-dex

△ TSB

# PUR3\_STAAM

S-1782

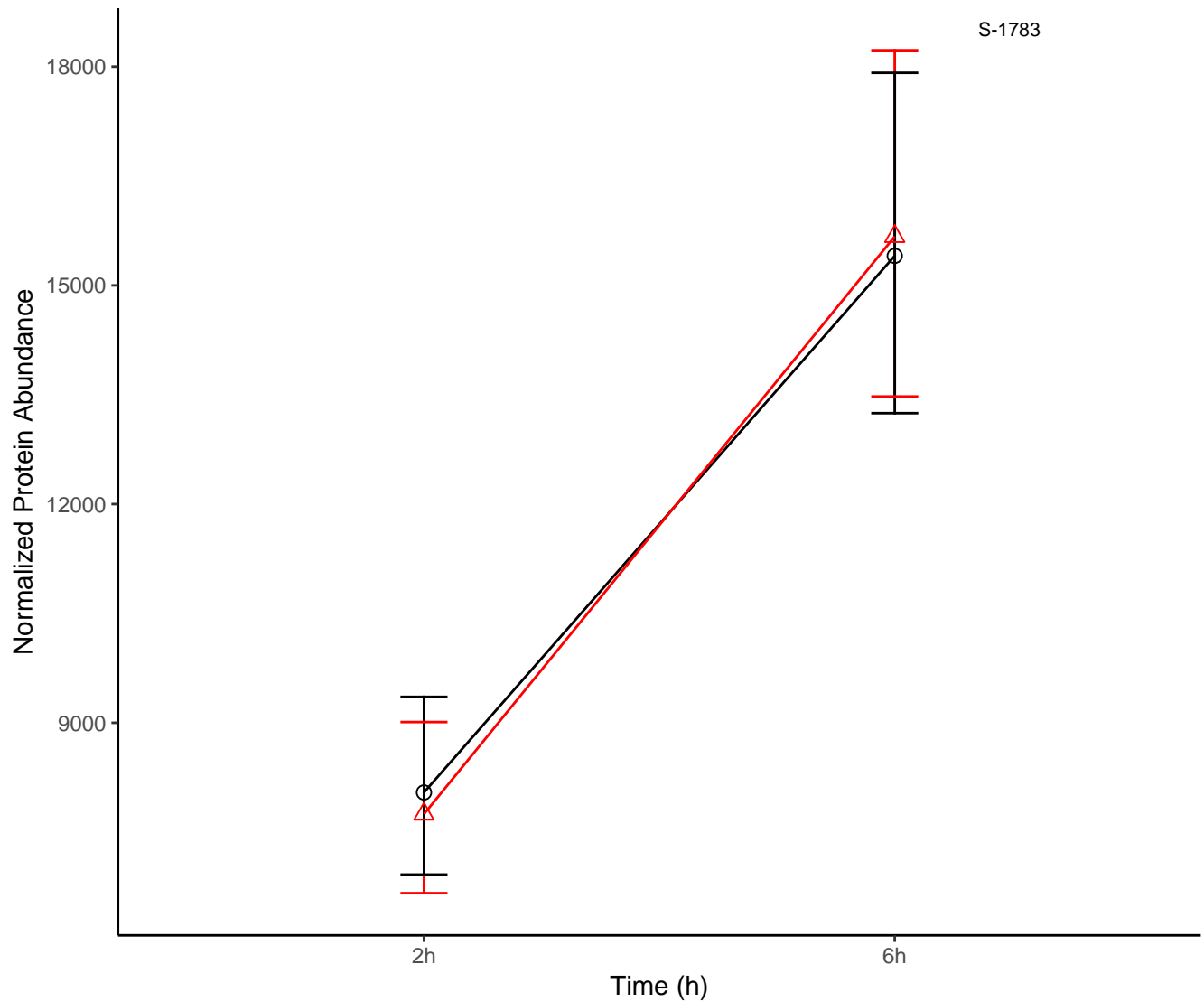


○ TSB-dex

△ TSB

# PUR5\_STAAM

S-1783

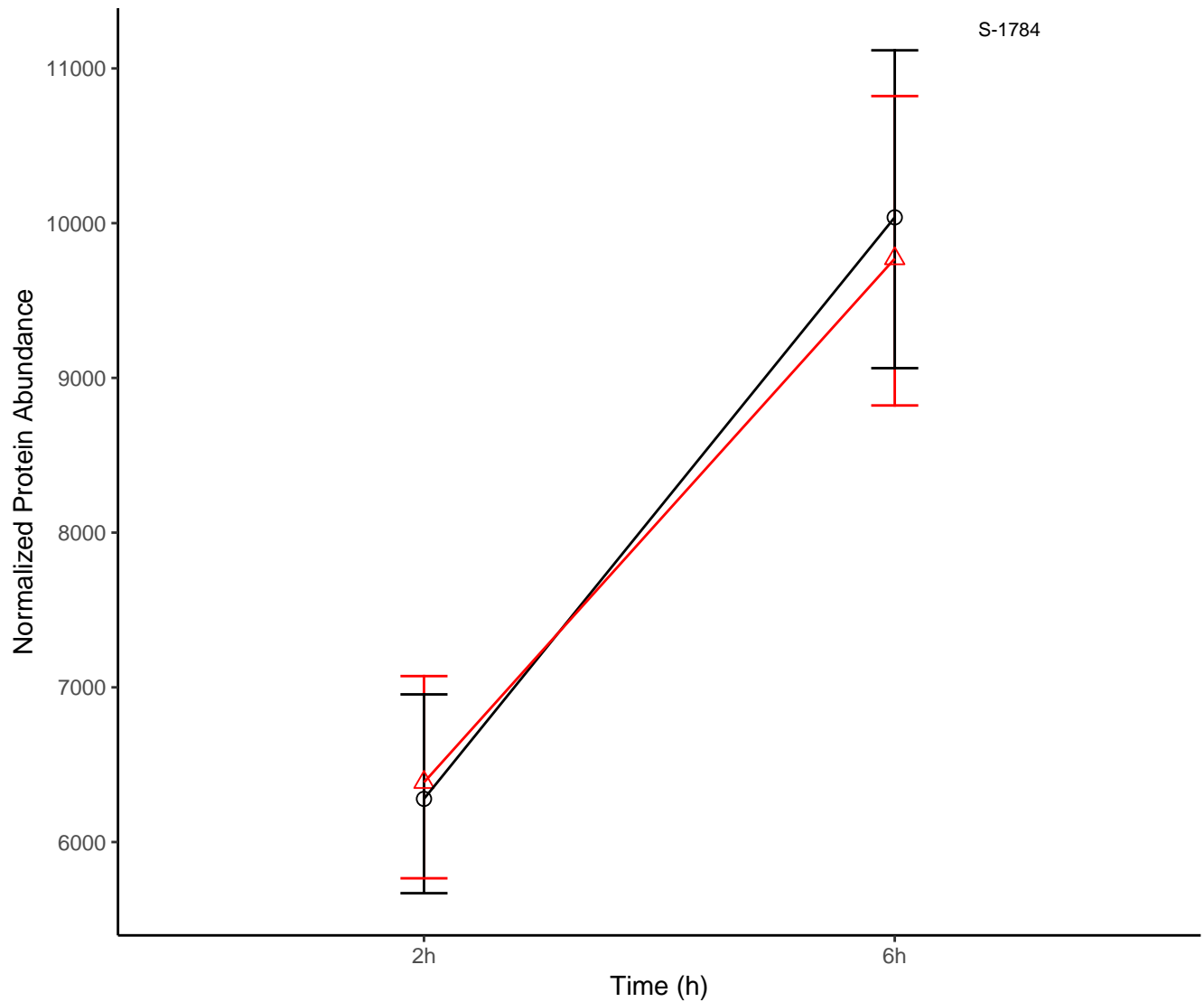


○ TSB-dex

△ TSB

# PUR7\_STAAM

S-1784



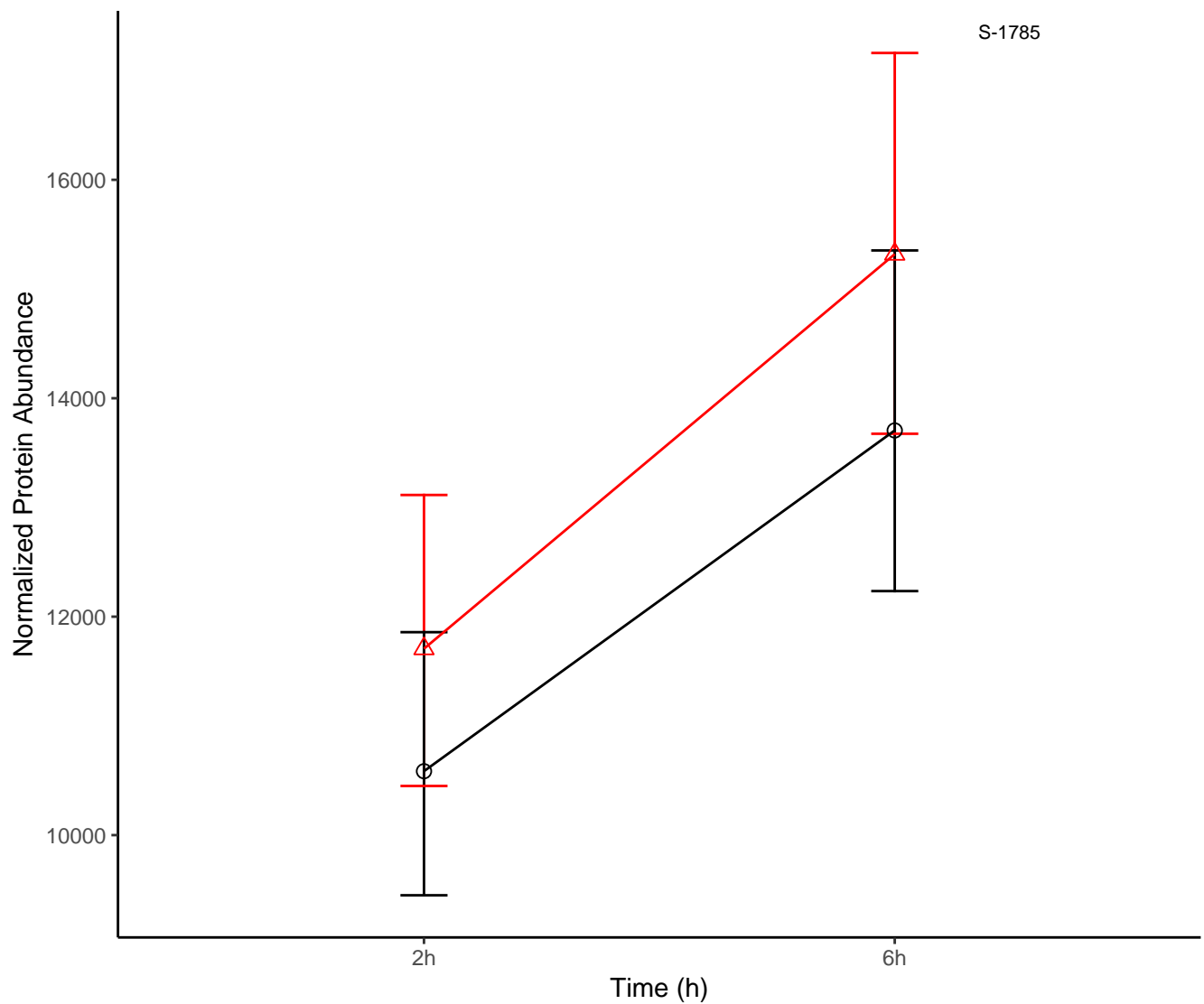
○ TSB-dex

△ TSB



# PUR8\_STAAM

S-1785



○ TSB-dex

△ TSB

# PUR9\_STAAM

S-1786

Normalized Protein Abundance

15000  
12000  
9000

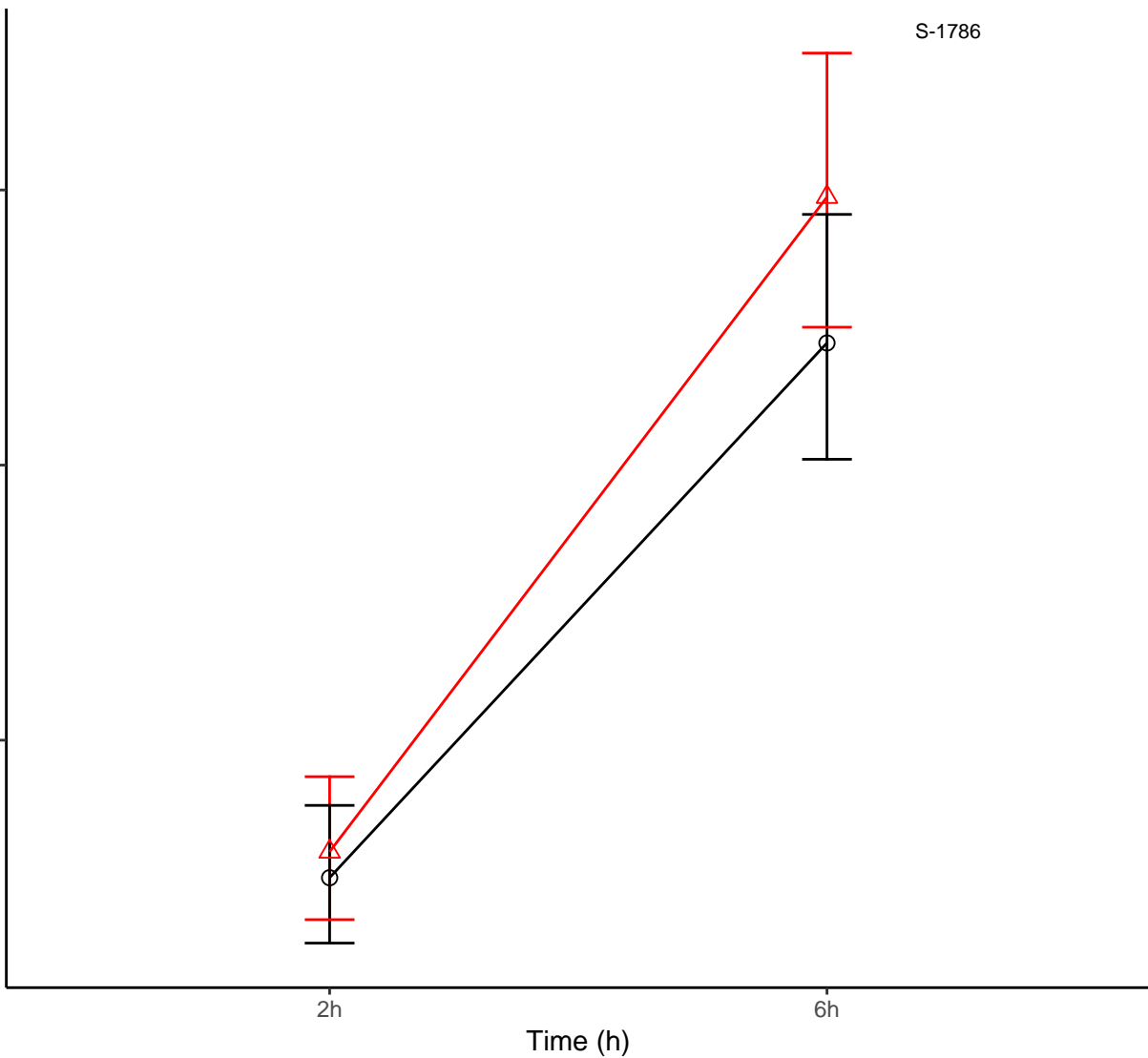
2h

6h

Time (h)

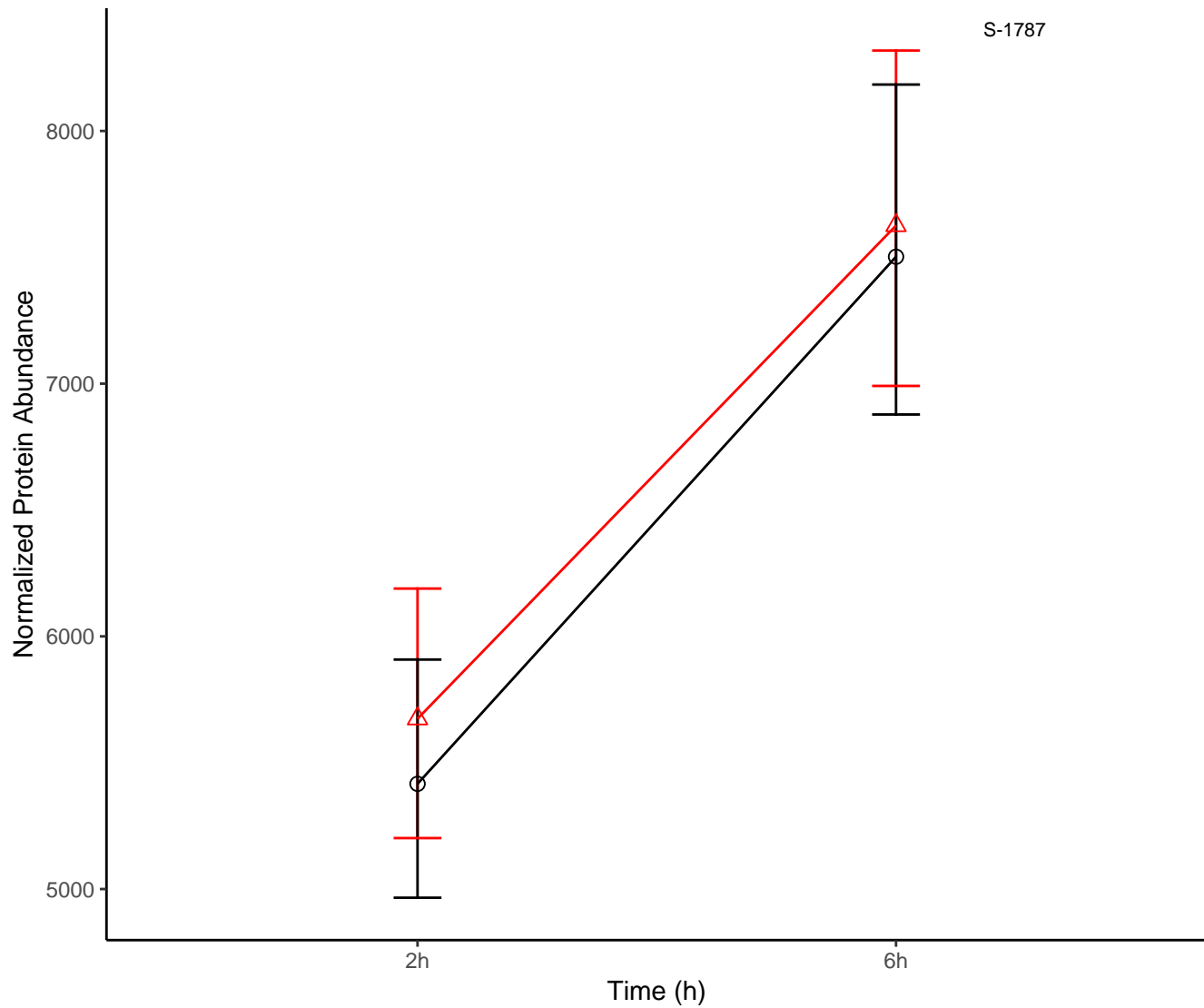
○ TSB-dex

△ TSB



# PURA\_STAAM

S-1787

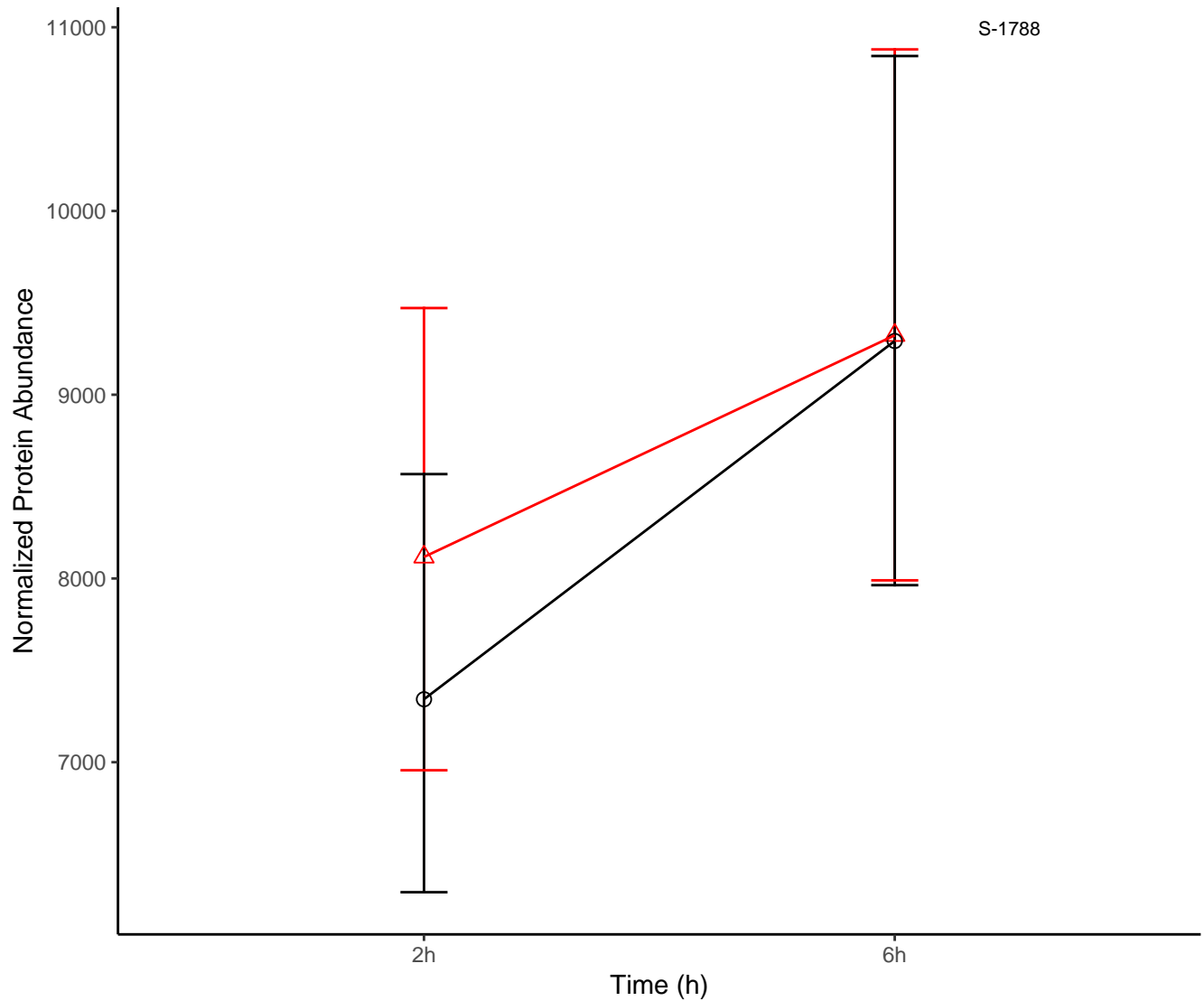


○ TSB-dex

△ TSB

# PURK\_STAAM

S-1788

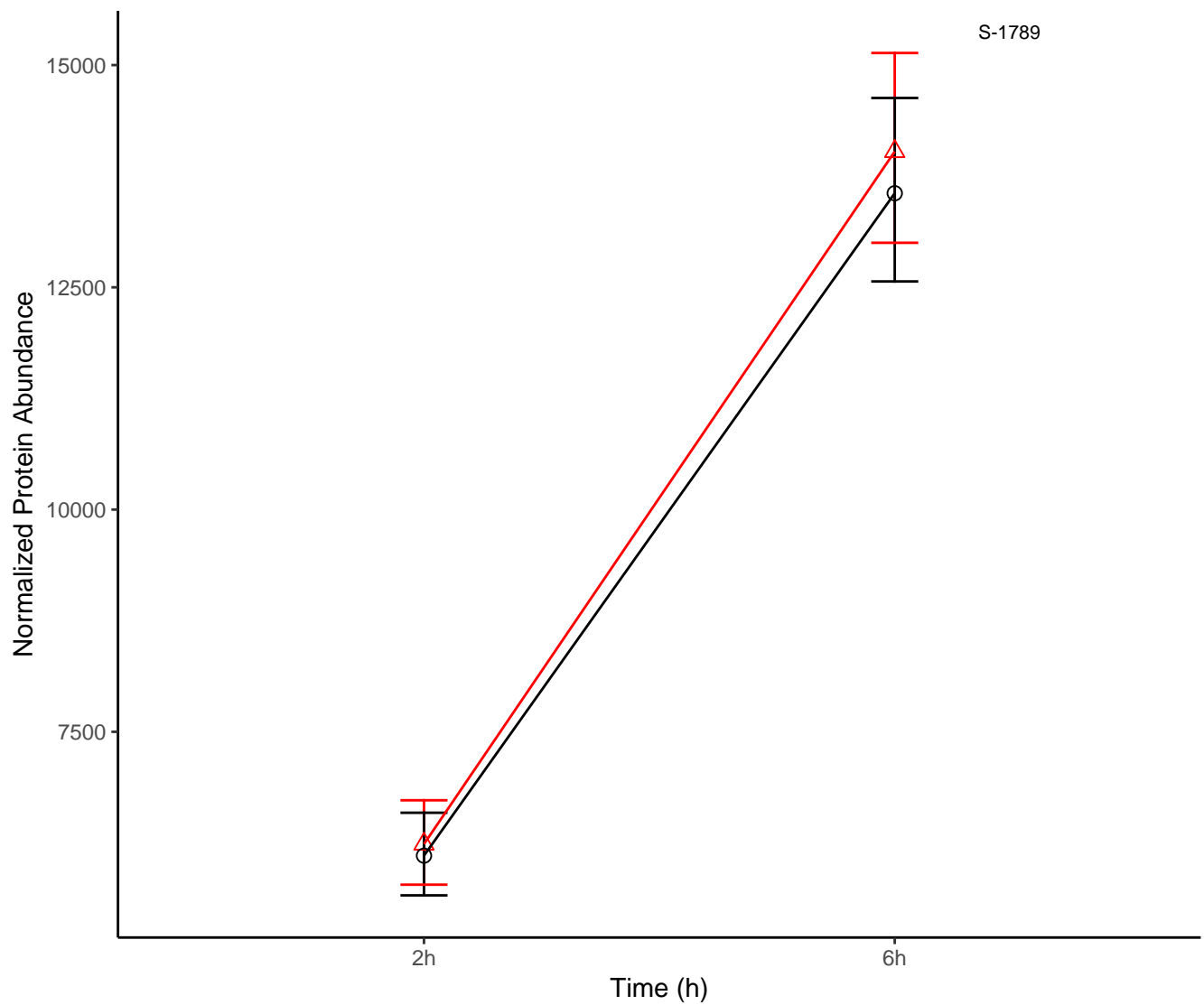


○ TSB-dex

△ TSB

# PURL\_STAAM

S-1789

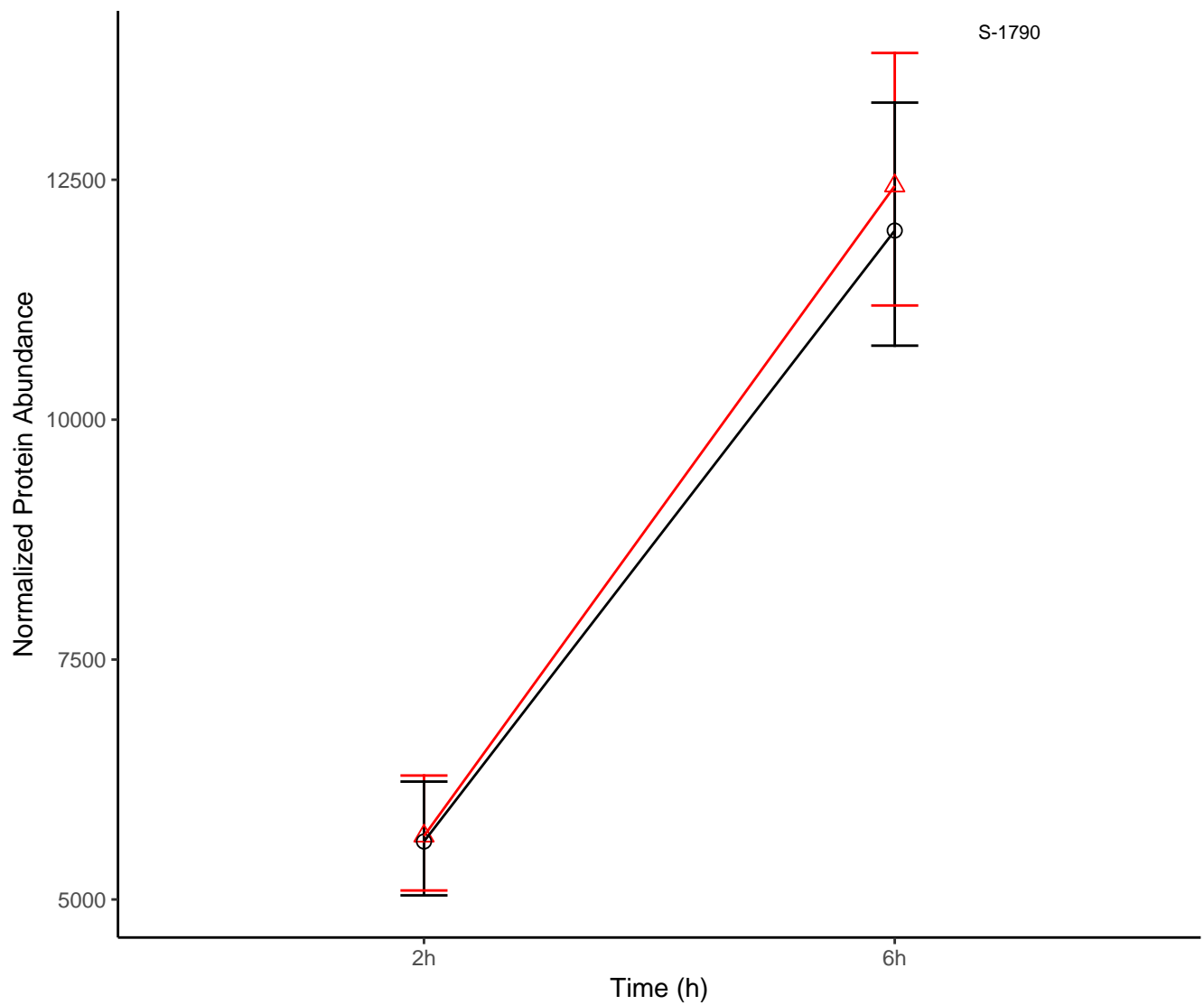


○ TSB-dex

△ TSB

# PURQ\_STAAM

S-1790

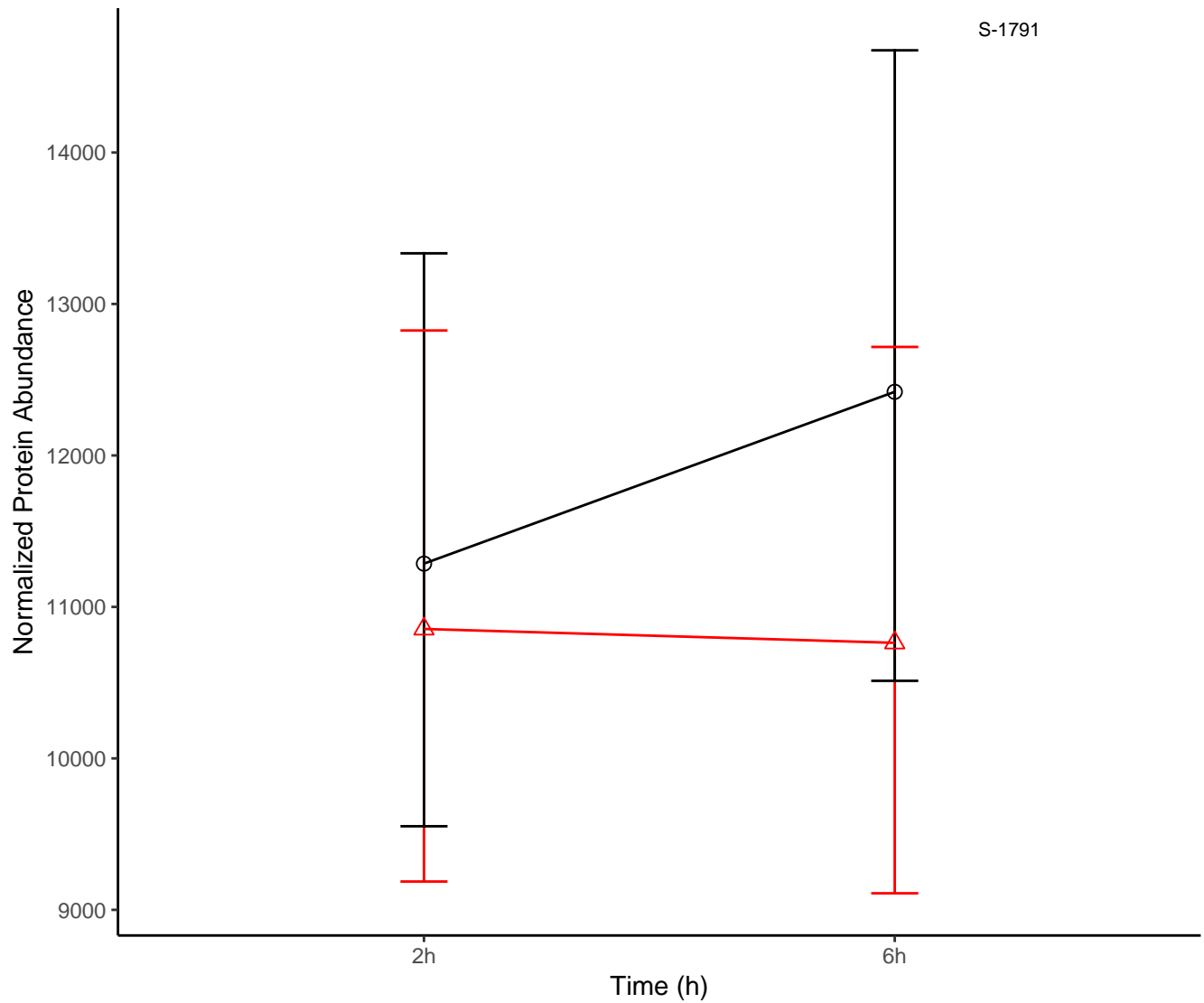


○ TSB-dex

△ TSB

# PYRB\_STAAM

S-1791

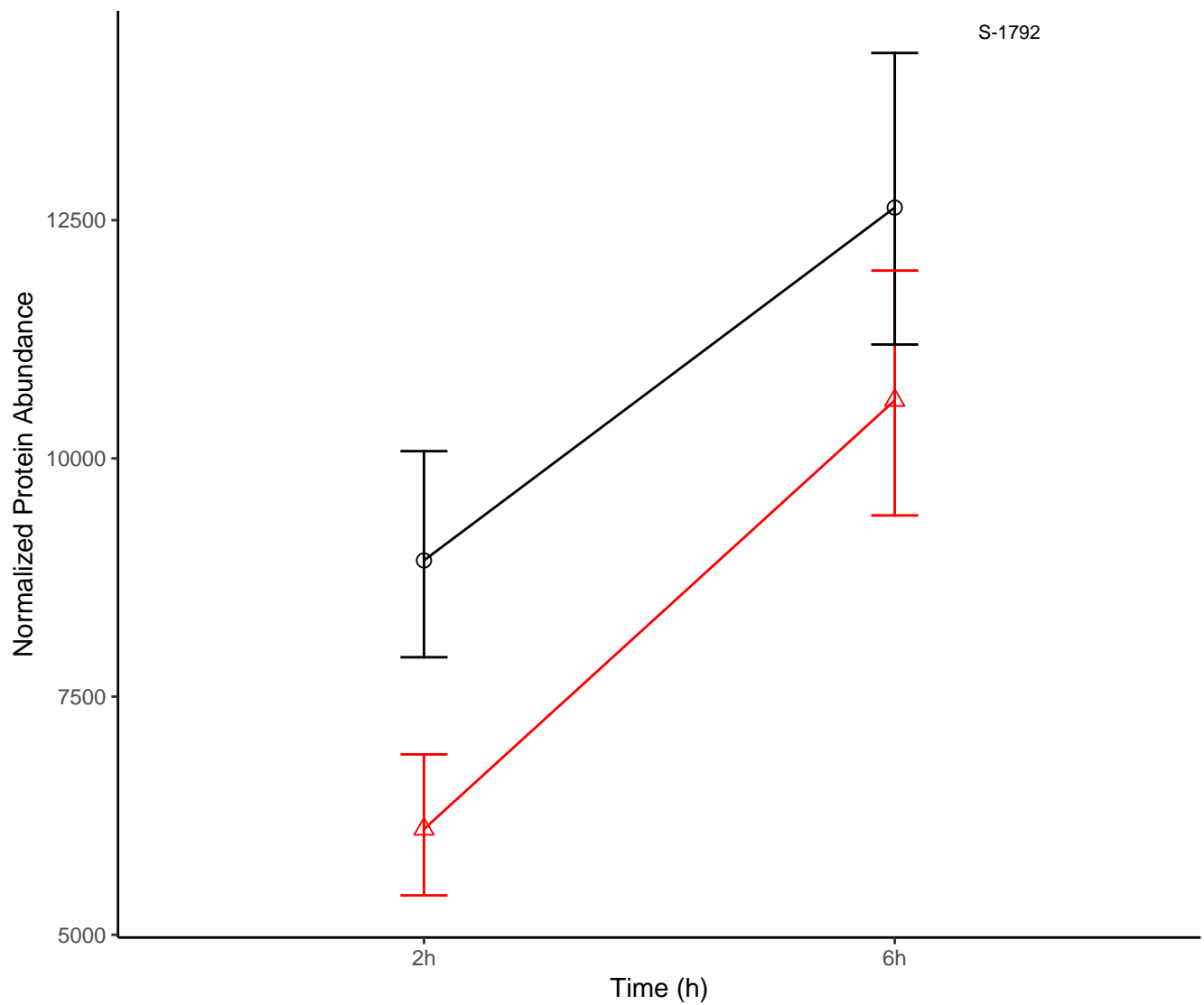


○ TSB-dex

△ TSB

# PYRC\_STAAM

S-1792



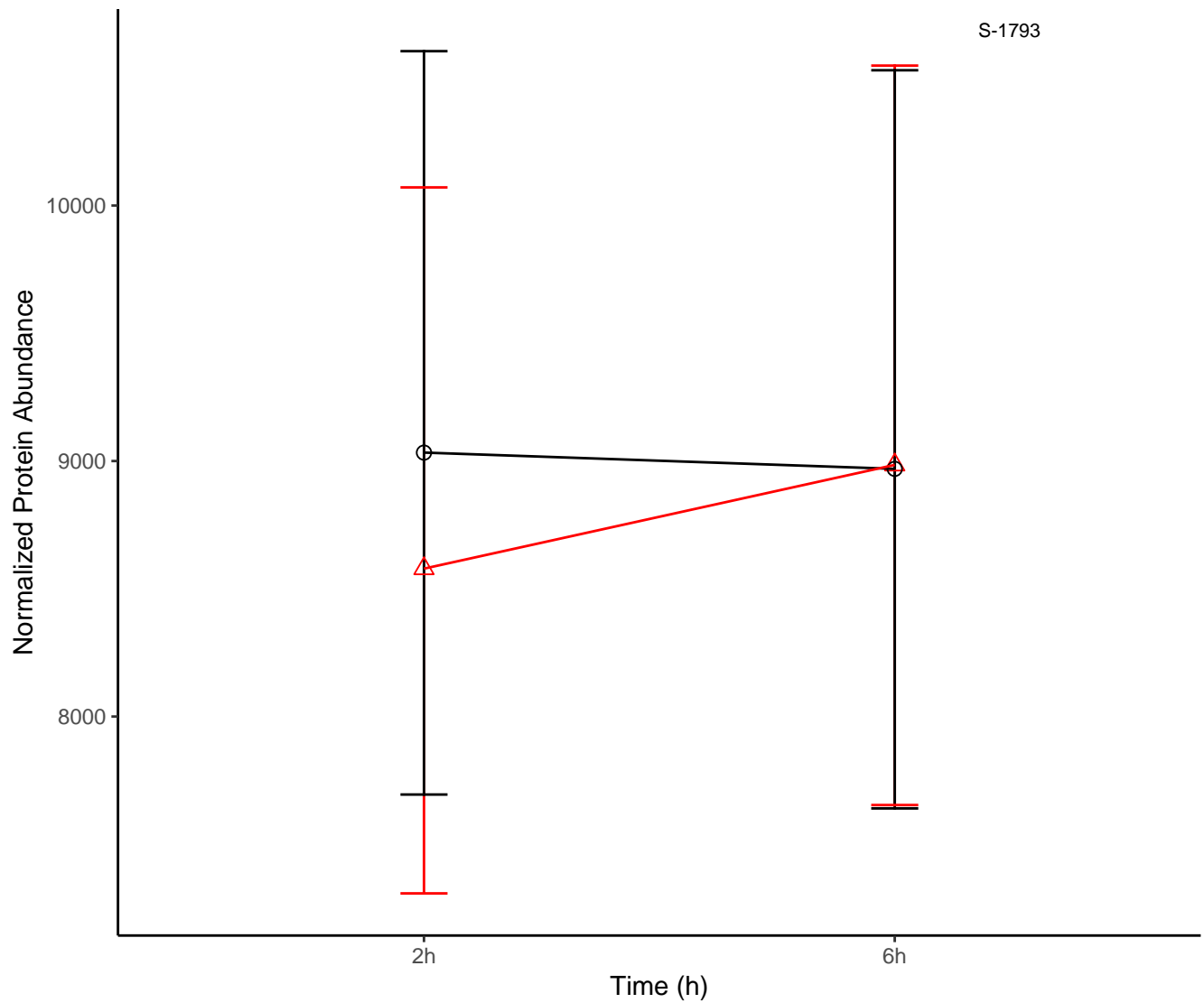
○ TSB-dex

△ TSB



# PYRE\_STAAM

S-1793

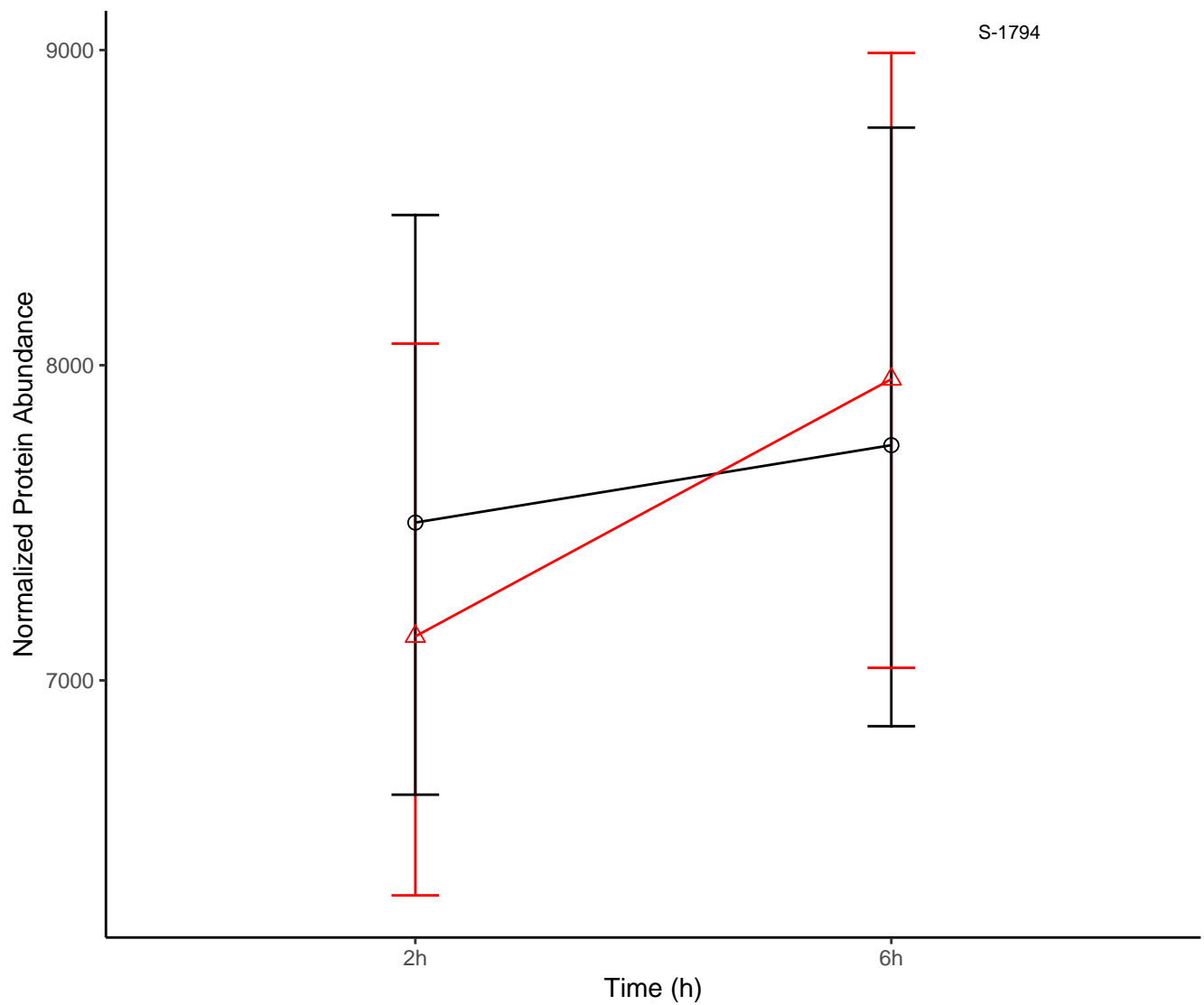


○ TSB-dex

△ TSB

# PYRF\_STAAM

S-1794

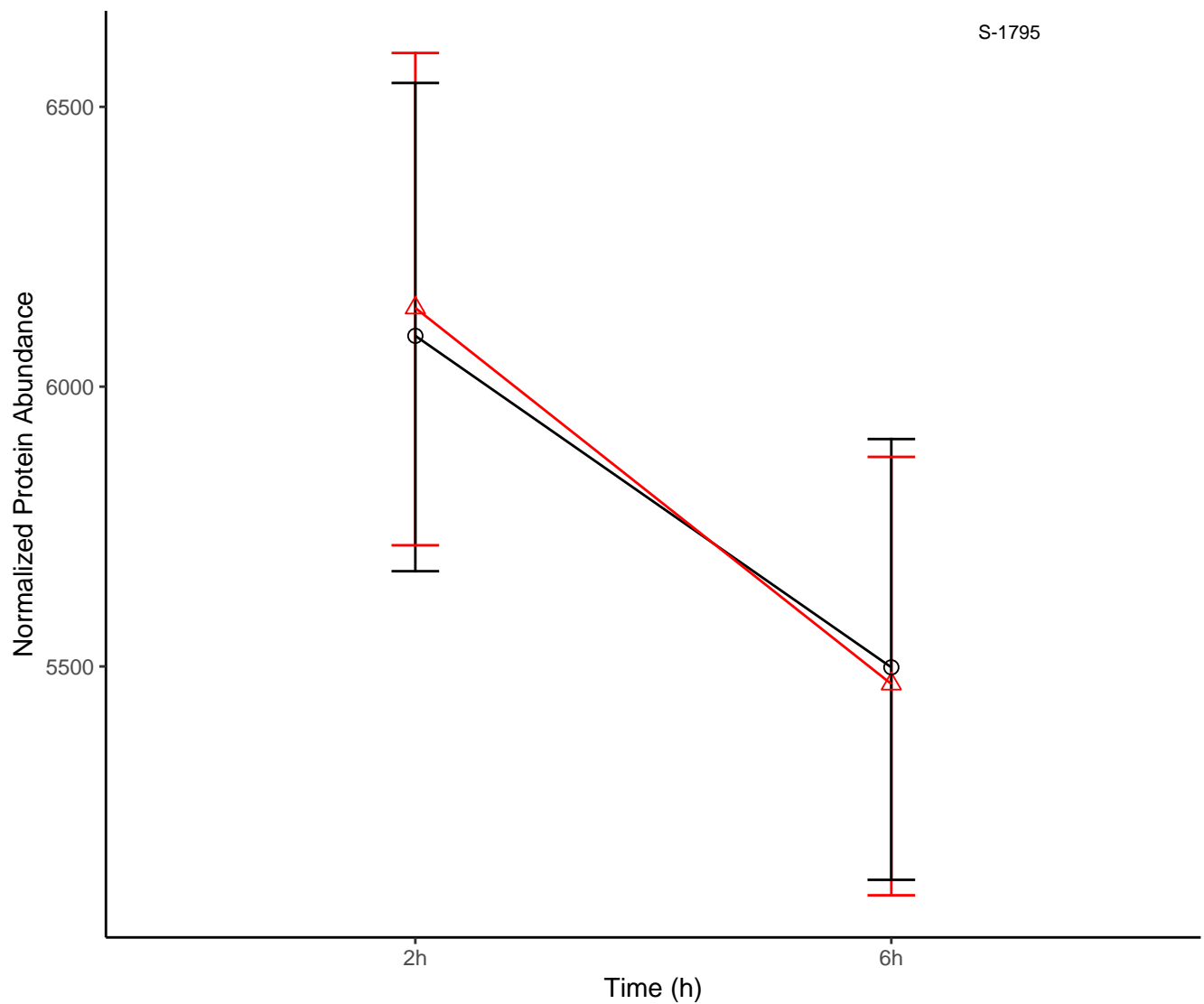


○ TSB-dex

△ TSB

# PYRG\_STAAM

S-1795

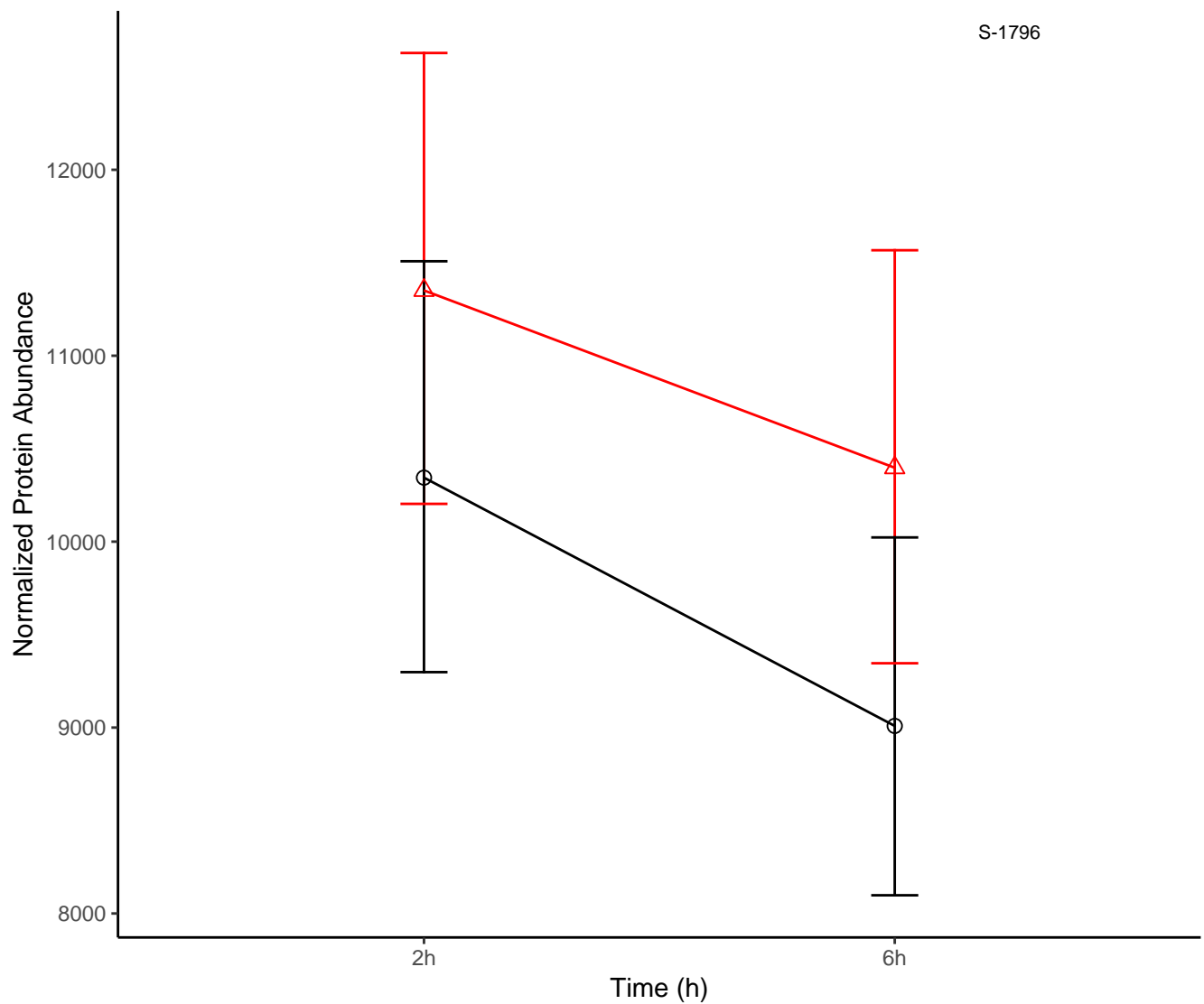


○ TSB-dex

△ TSB

# PYRH\_STAAM

S-1796

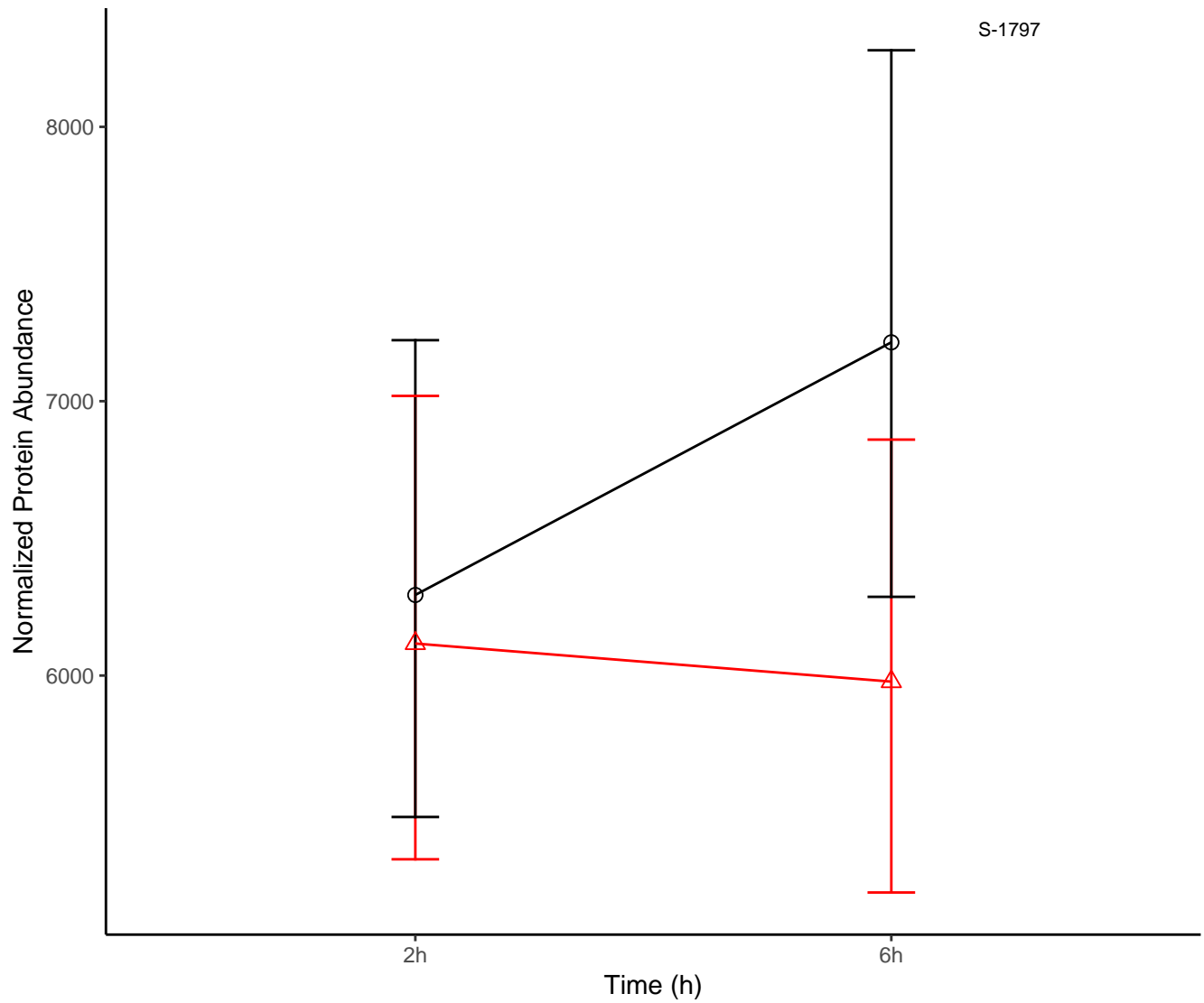


○ TSB-dex

△ TSB

# PYRR\_STAAM

S-1797

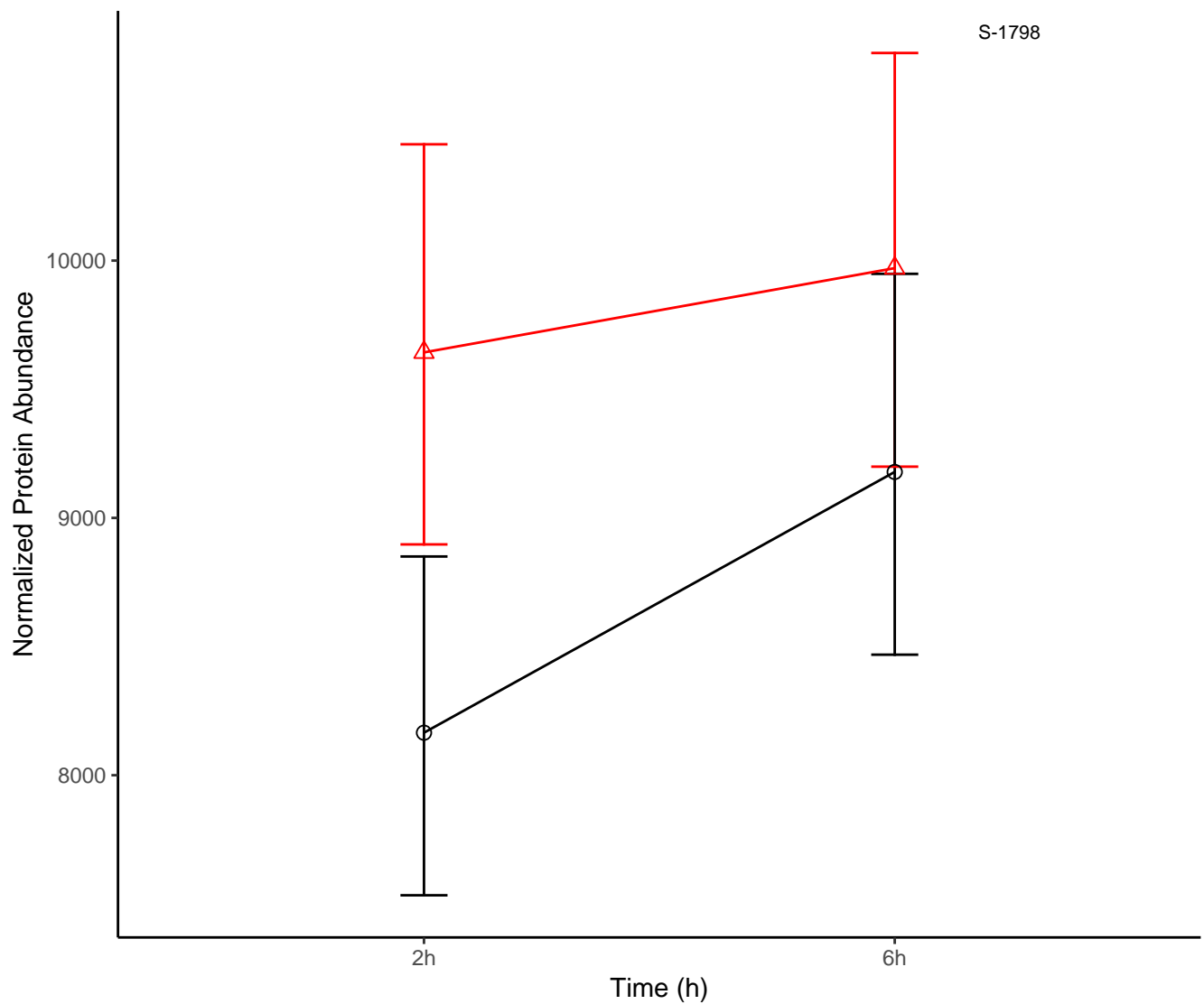


○ TSB-dex

△ TSB

# QOX2\_STAAM

S-1798

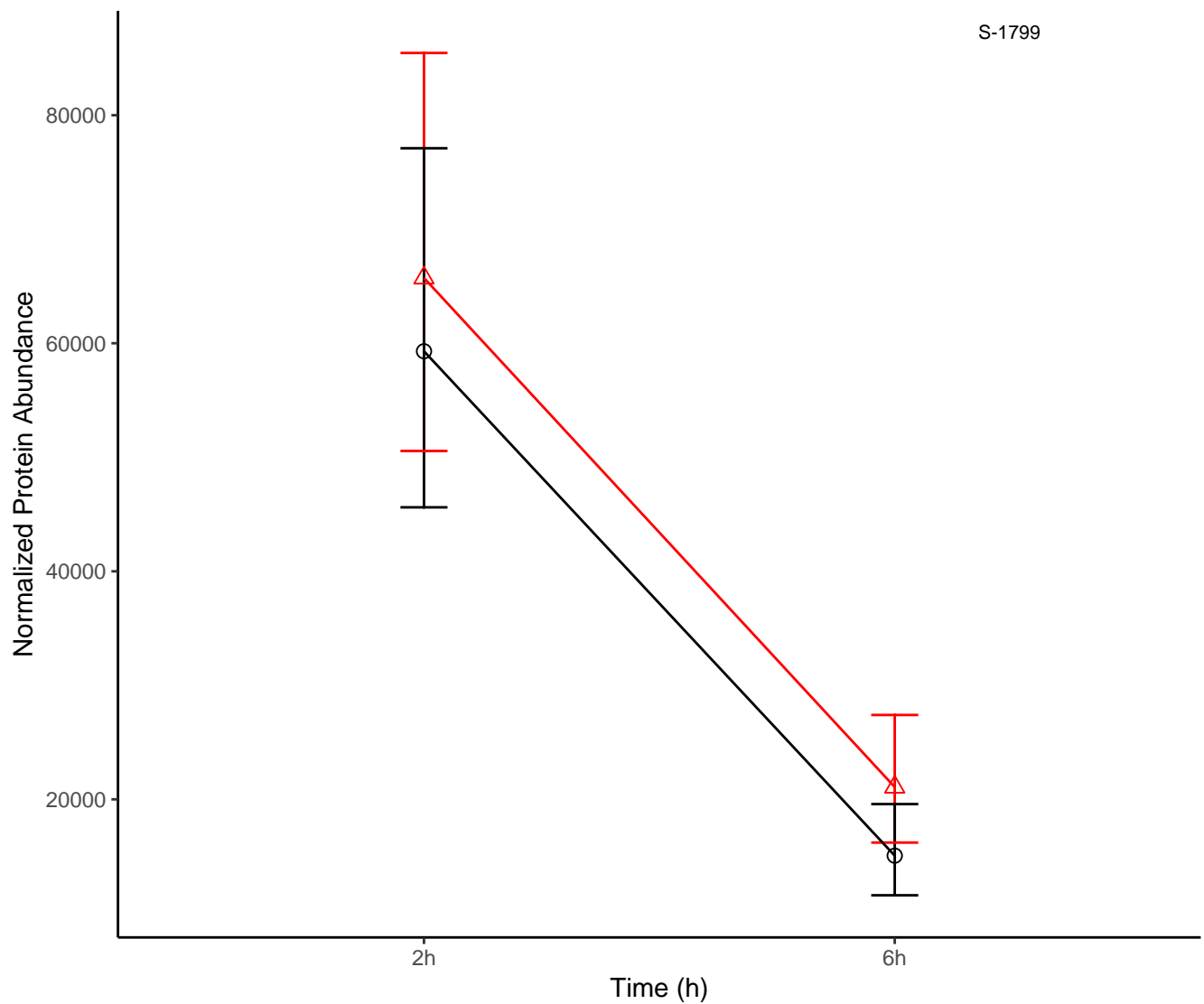


○ TSB-dex

△ TSB

# QUEA\_STAAM

S-1799

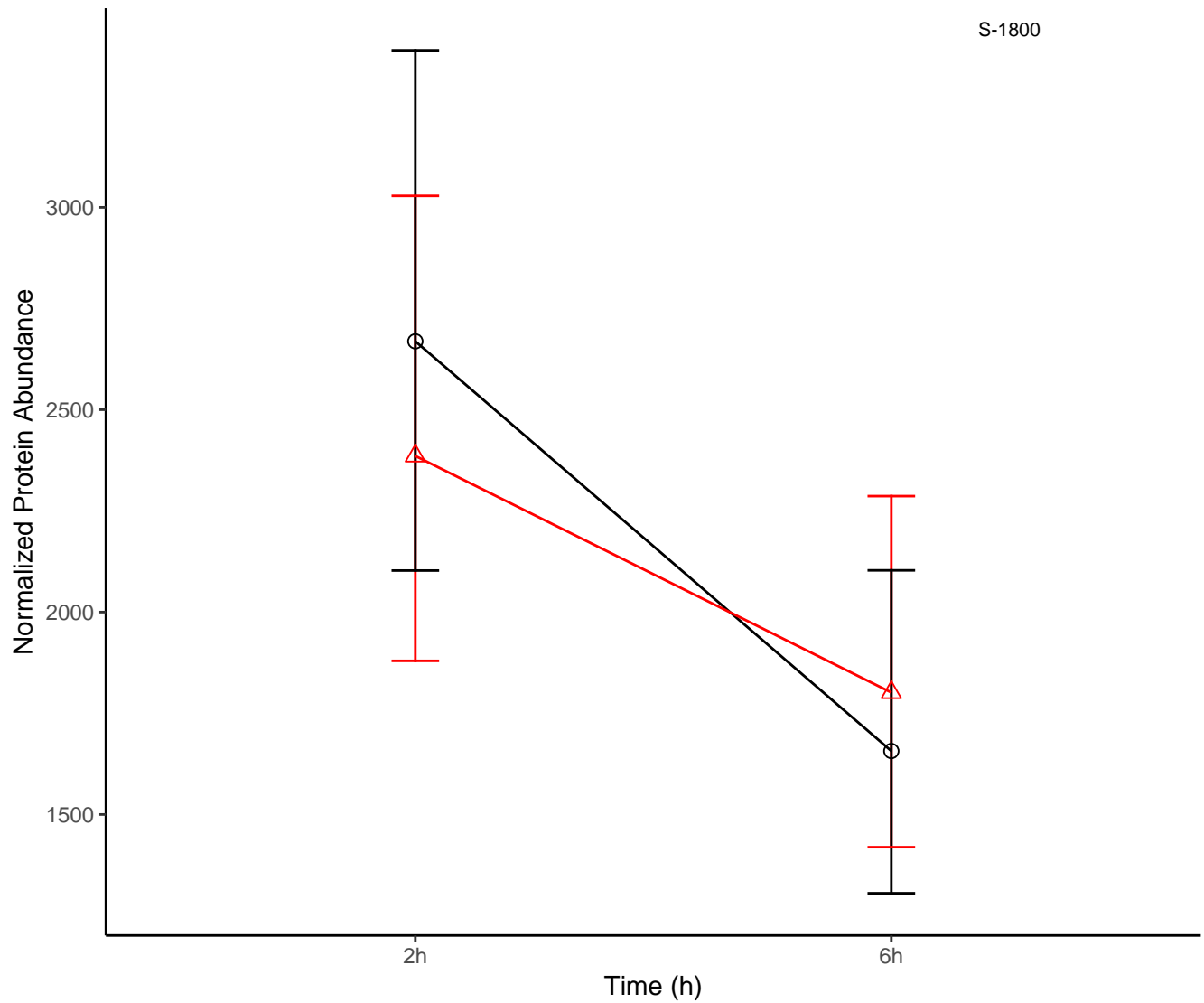


○ TSB-dex

△ TSB

# QUEC\_STAAM

S-1800



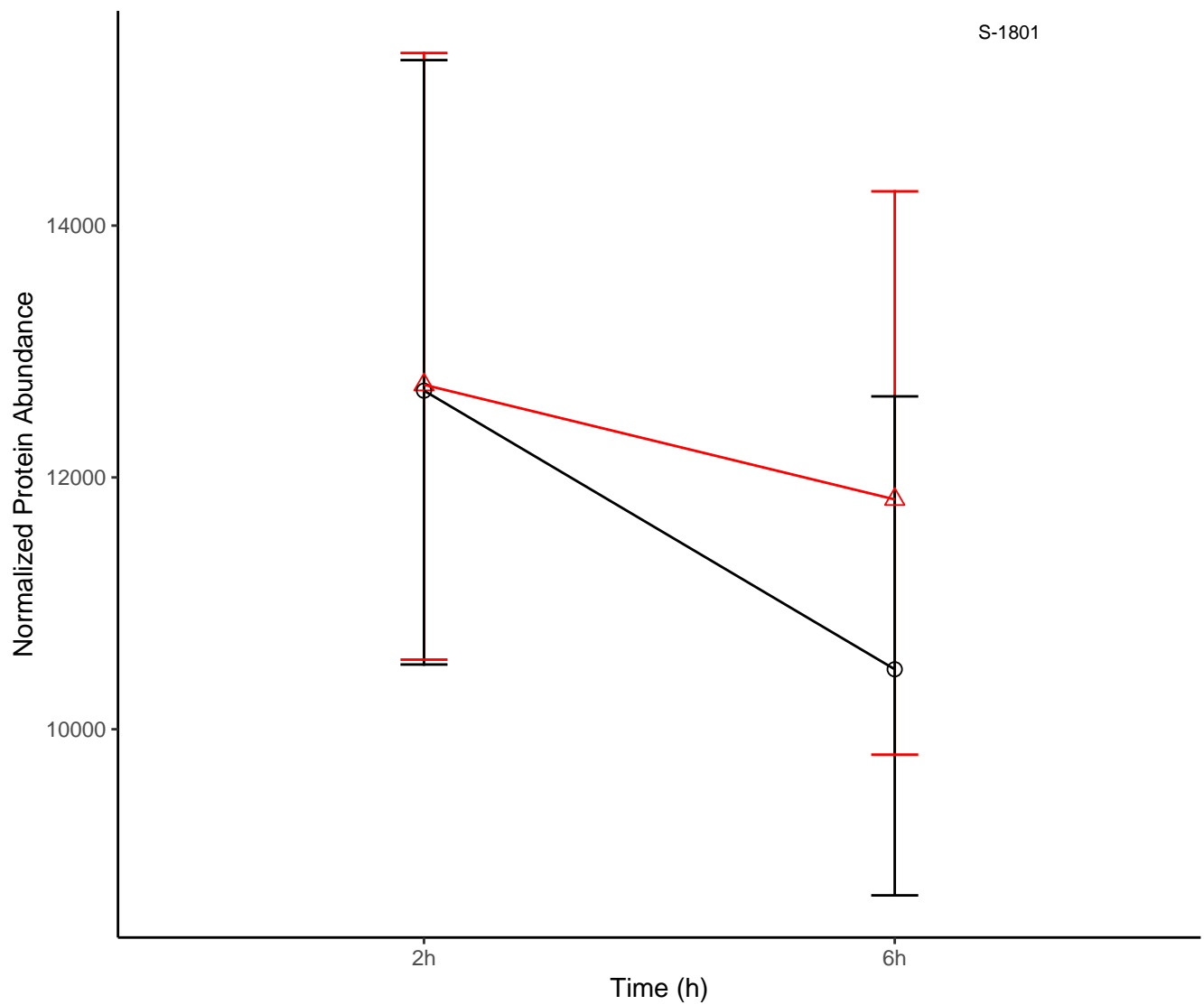
○ TSB-dex

△ TSB



# RBFA\_STAAM

S-1801

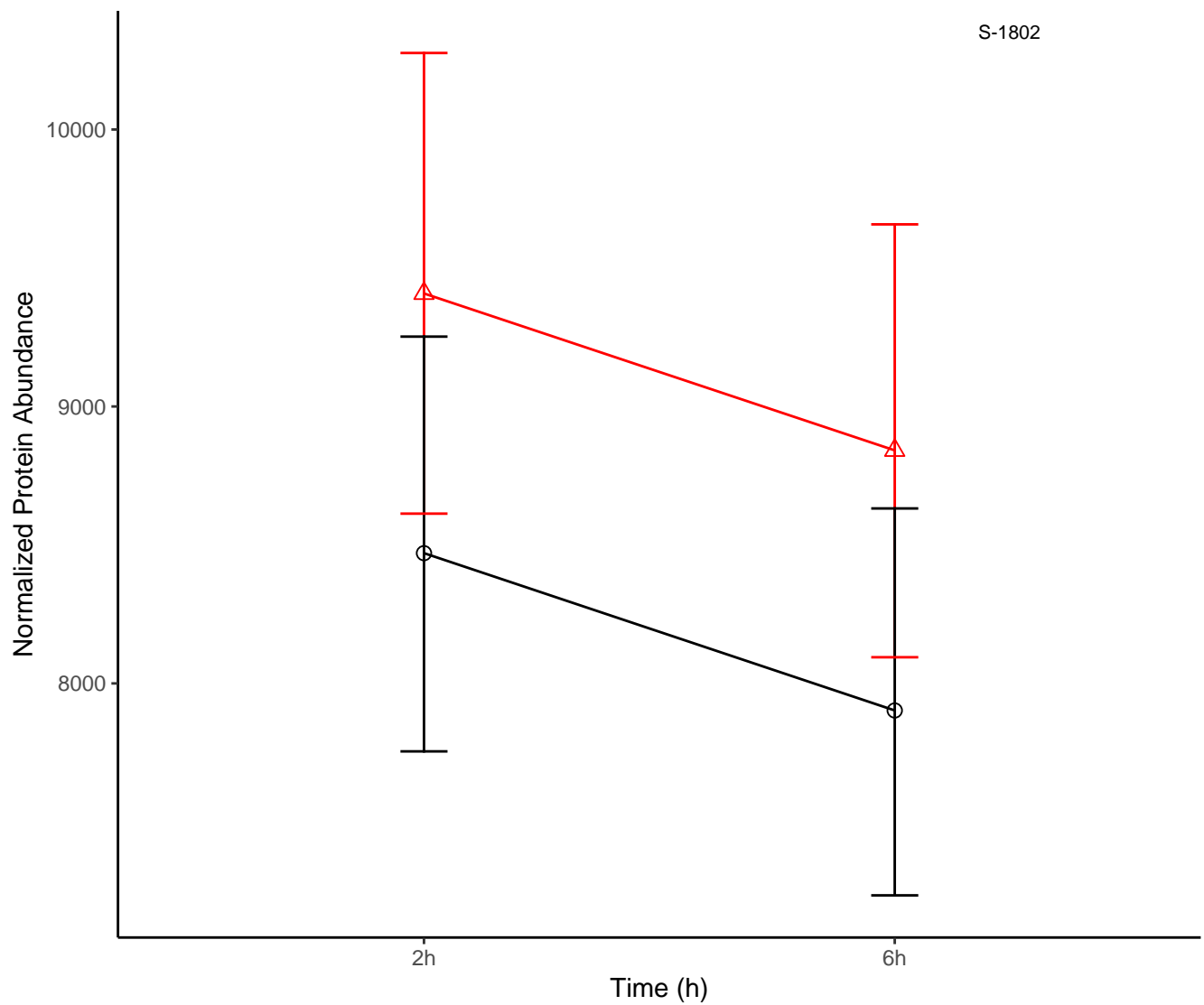


○ TSB-dex

△ TSB

# RECA\_STAAM

S-1802

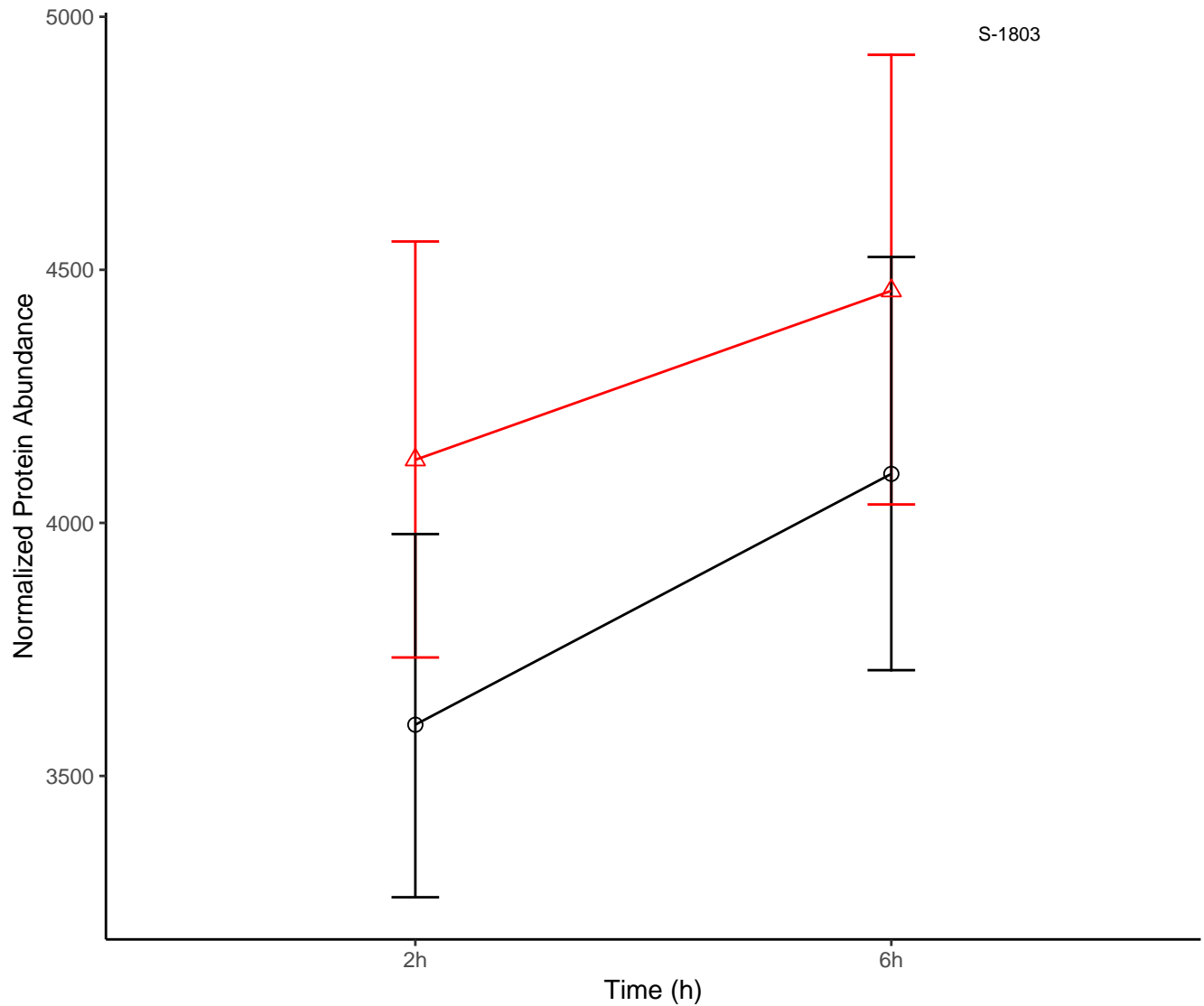


○ TSB-dex

△ TSB

# RELA\_STAAM

S-1803

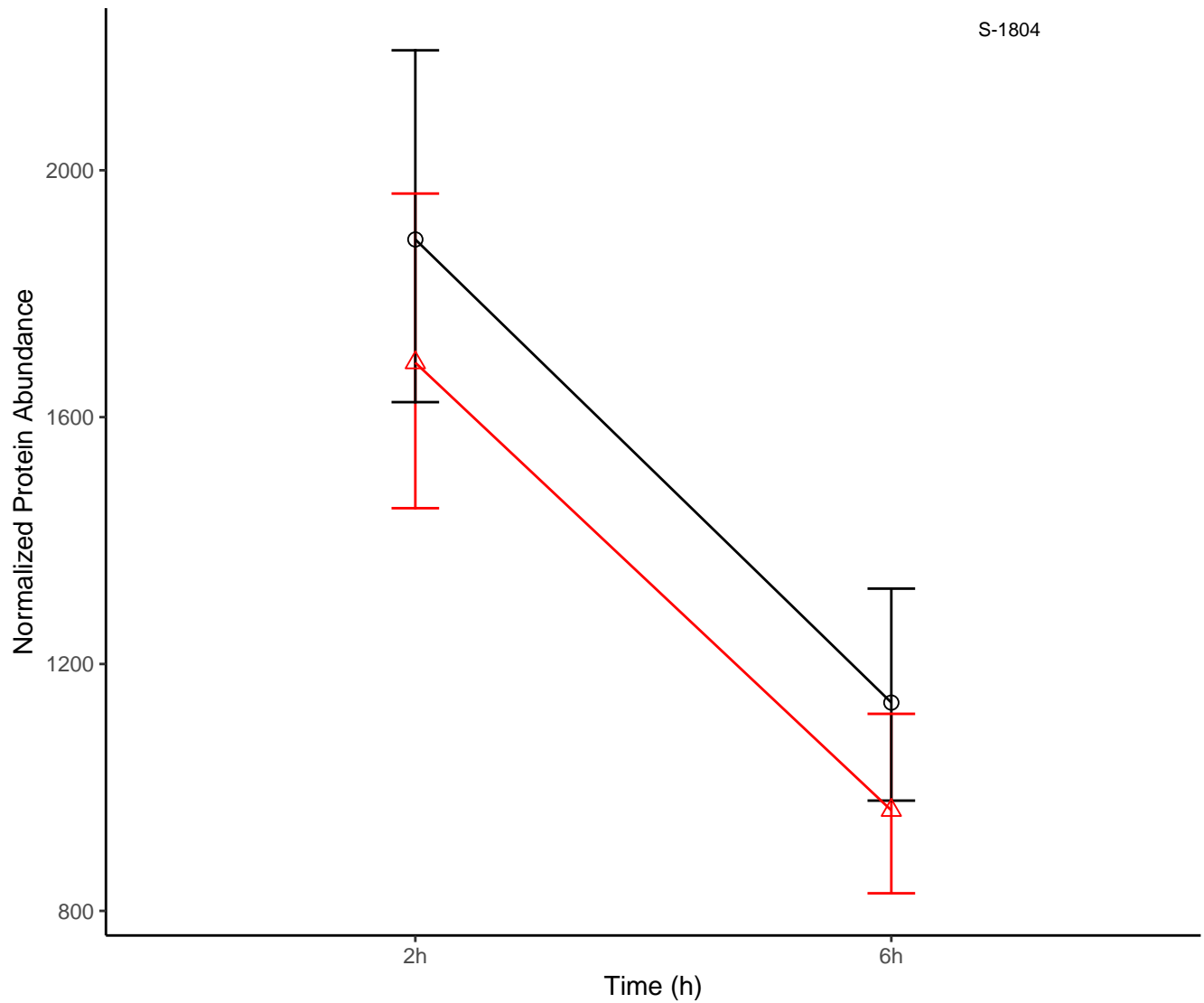


○ TSB-dex

△ TSB

# REX\_STAAM

S-1804

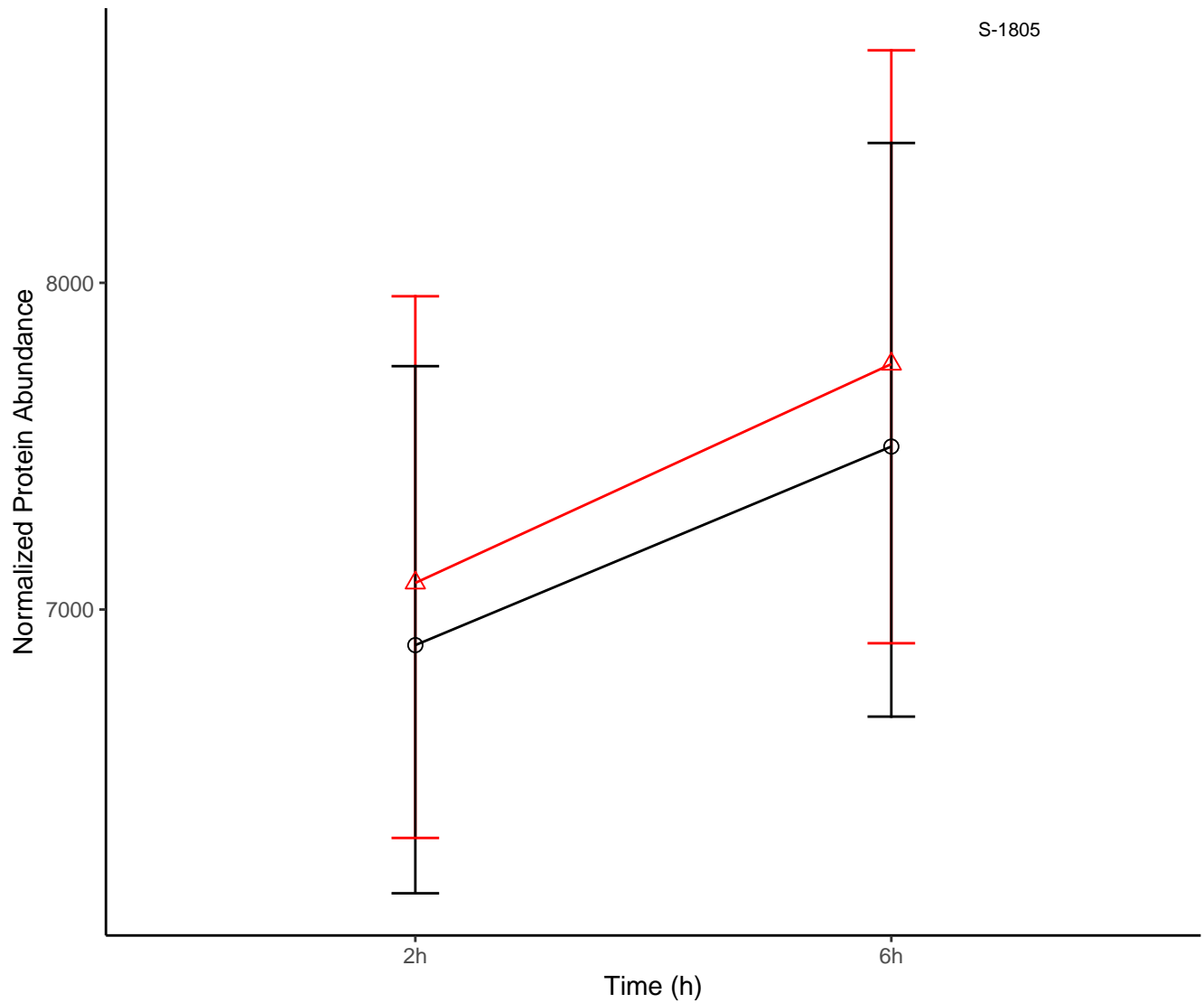


○ TSB-dex

△ TSB

# RF1\_STAAM

S-1805

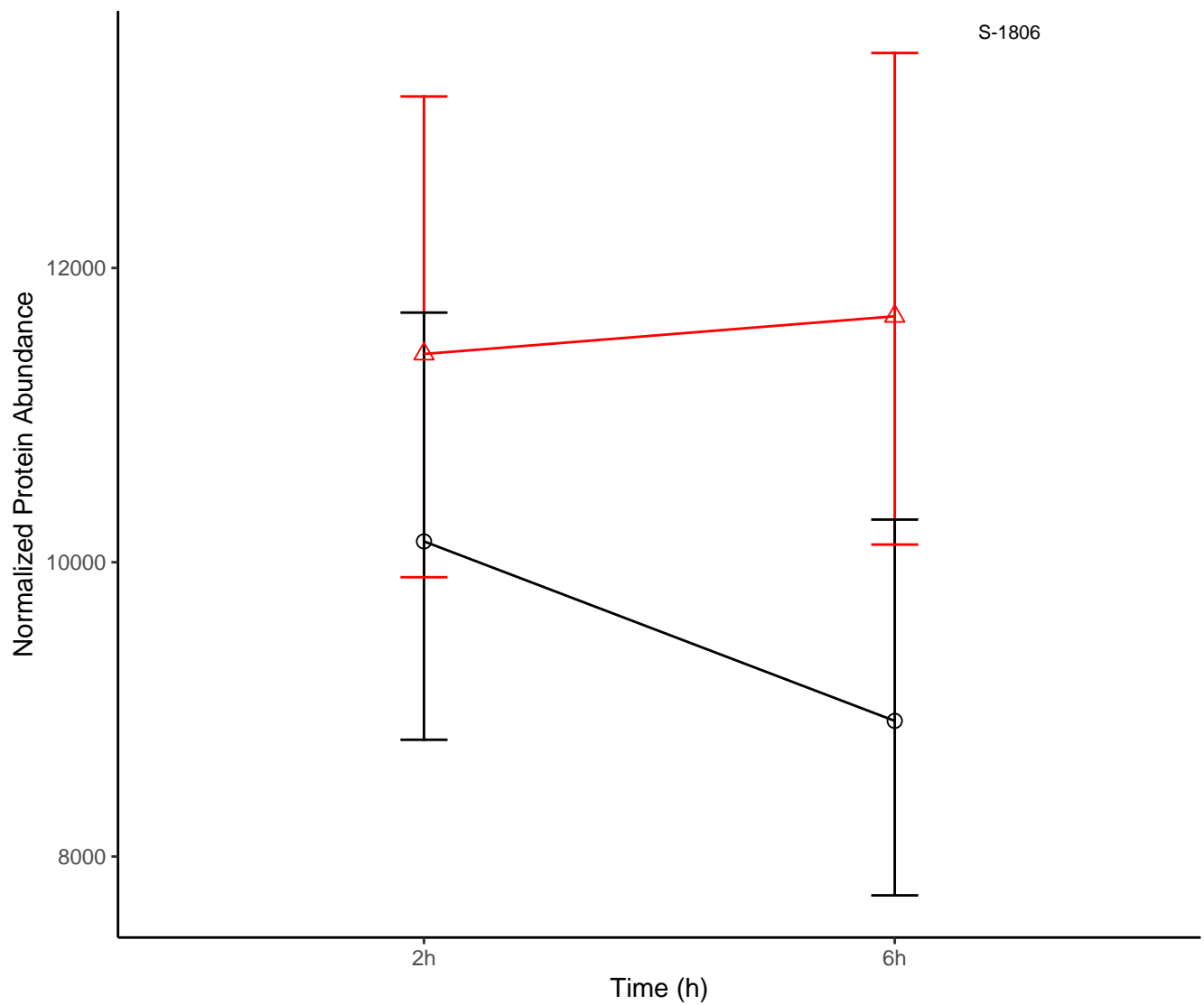


○ TSB-dex

△ TSB

# RIBBA\_STAAM

S-1806

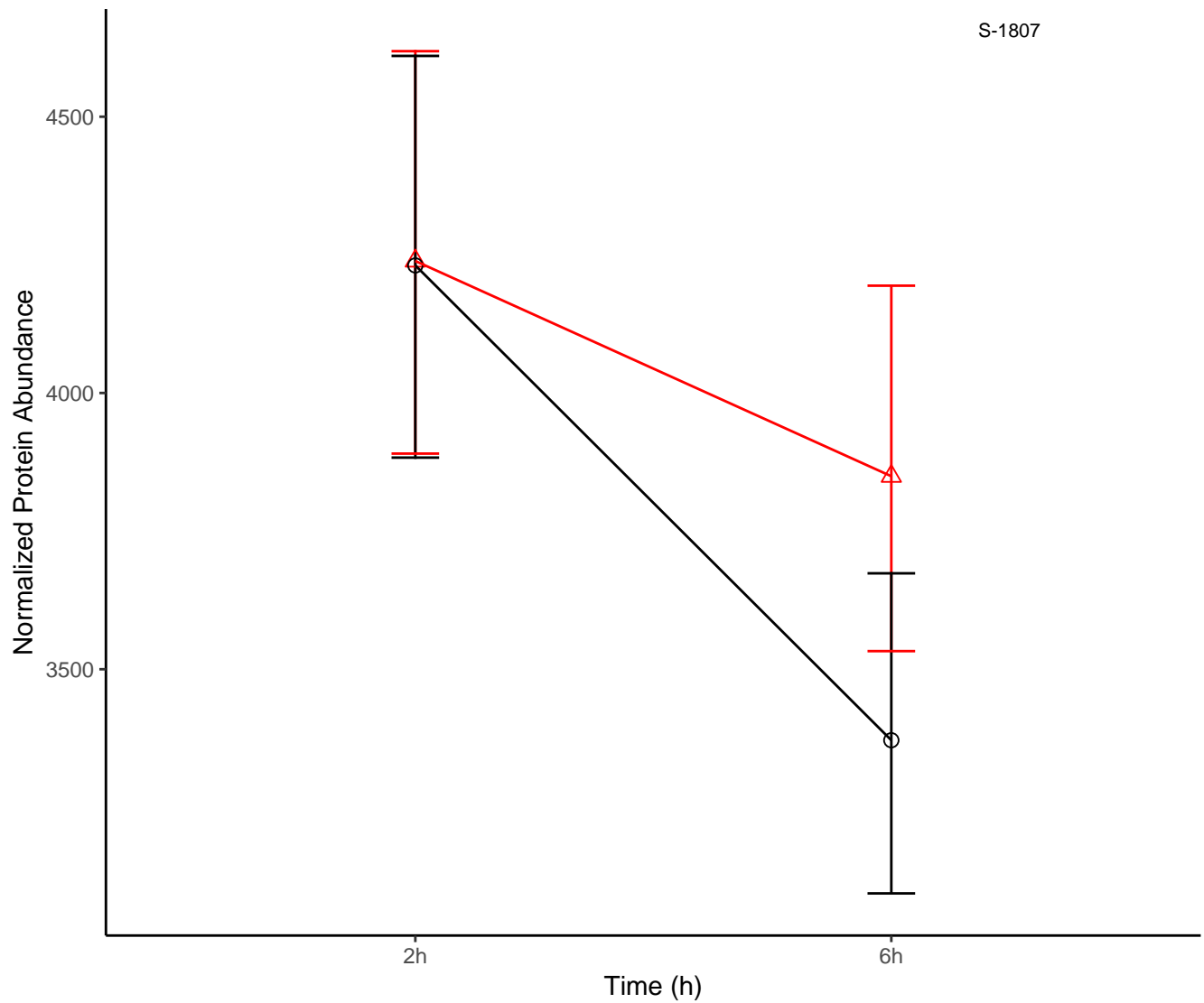


○ TSB-dex

△ TSB

# RIMM\_STAAM

S-1807

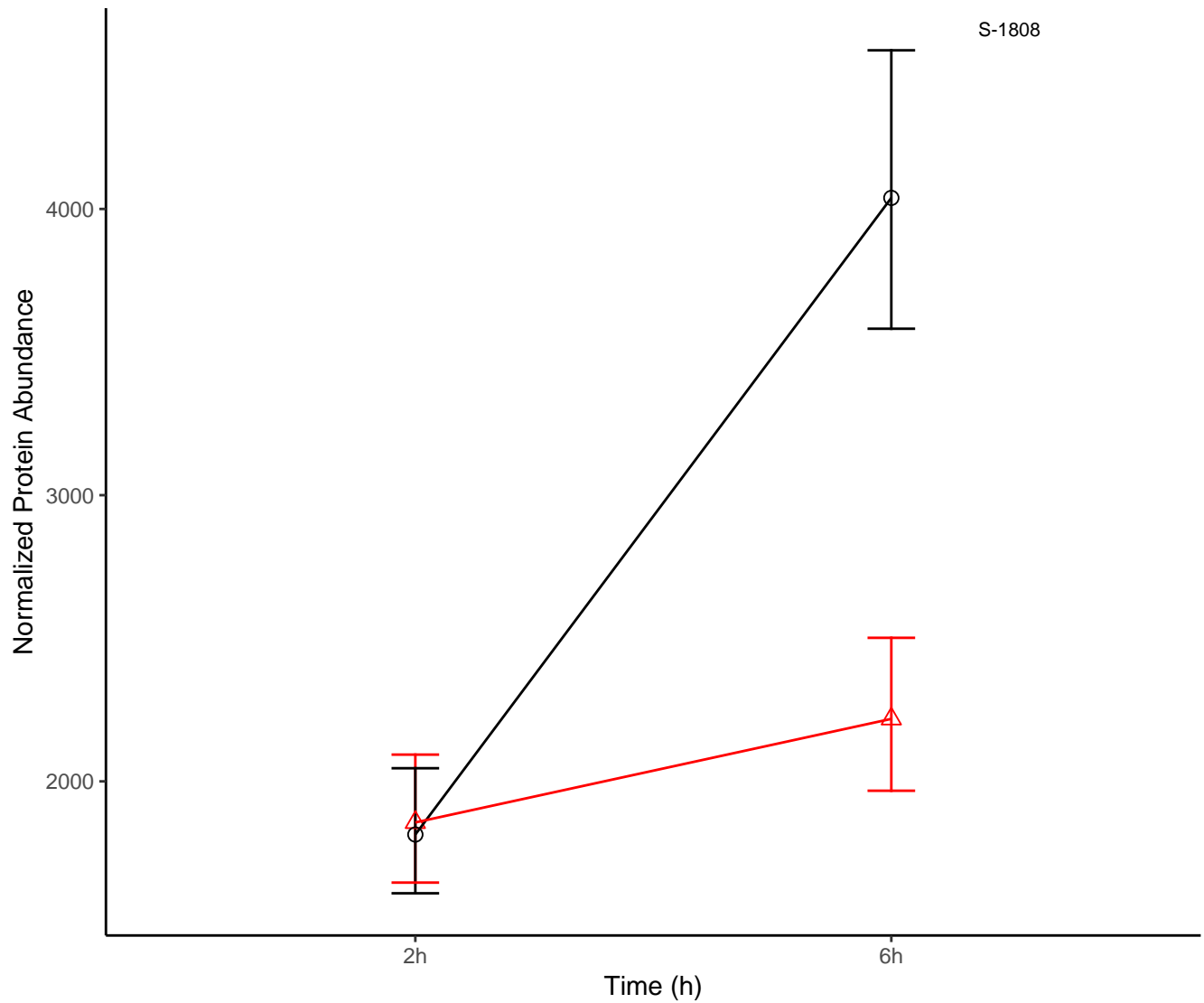


○ TSB-dex

△ TSB

# RISB\_STAAM

S-1808



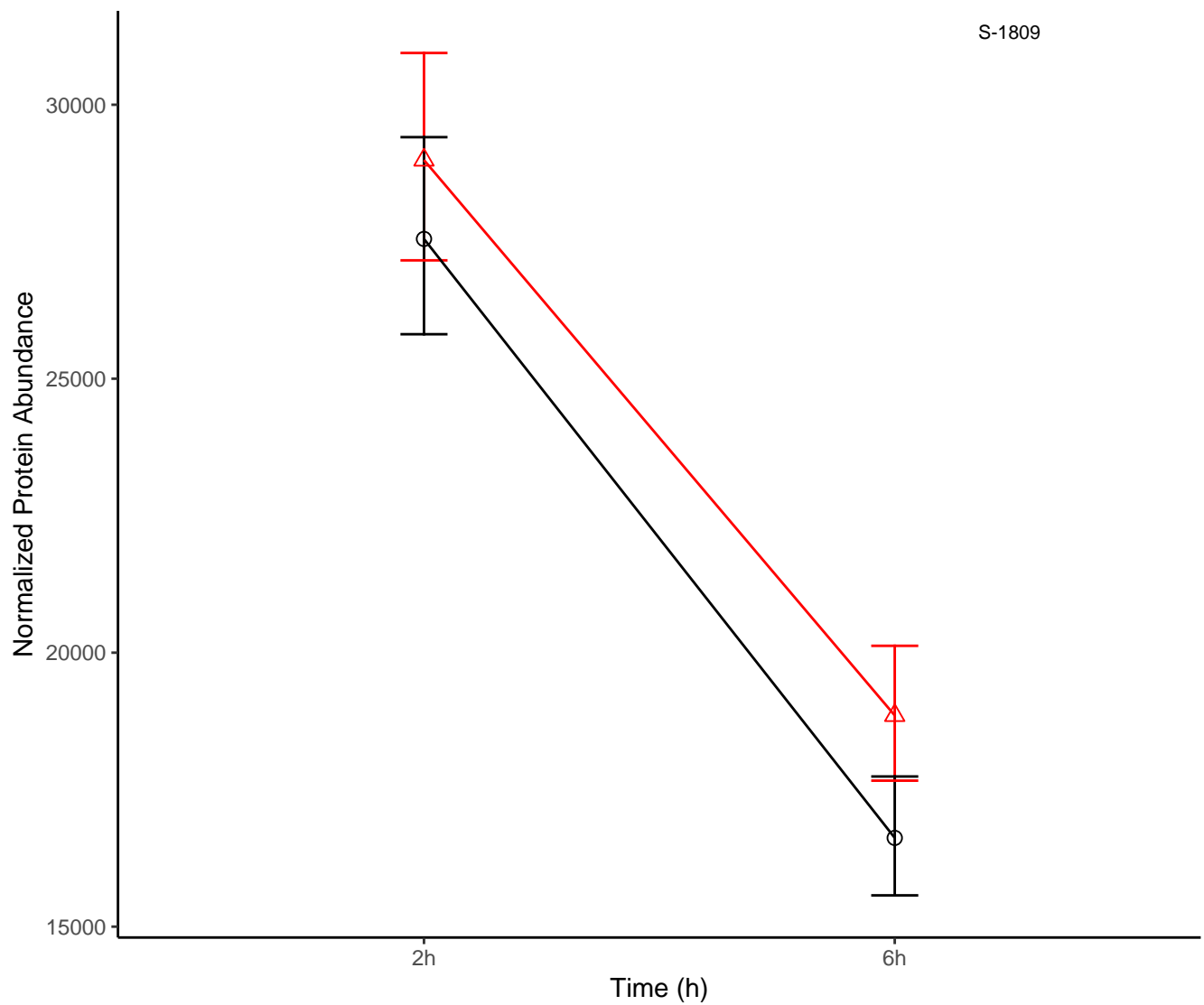
○ TSB-dex

△ TSB



# RL1\_STAAM

S-1809

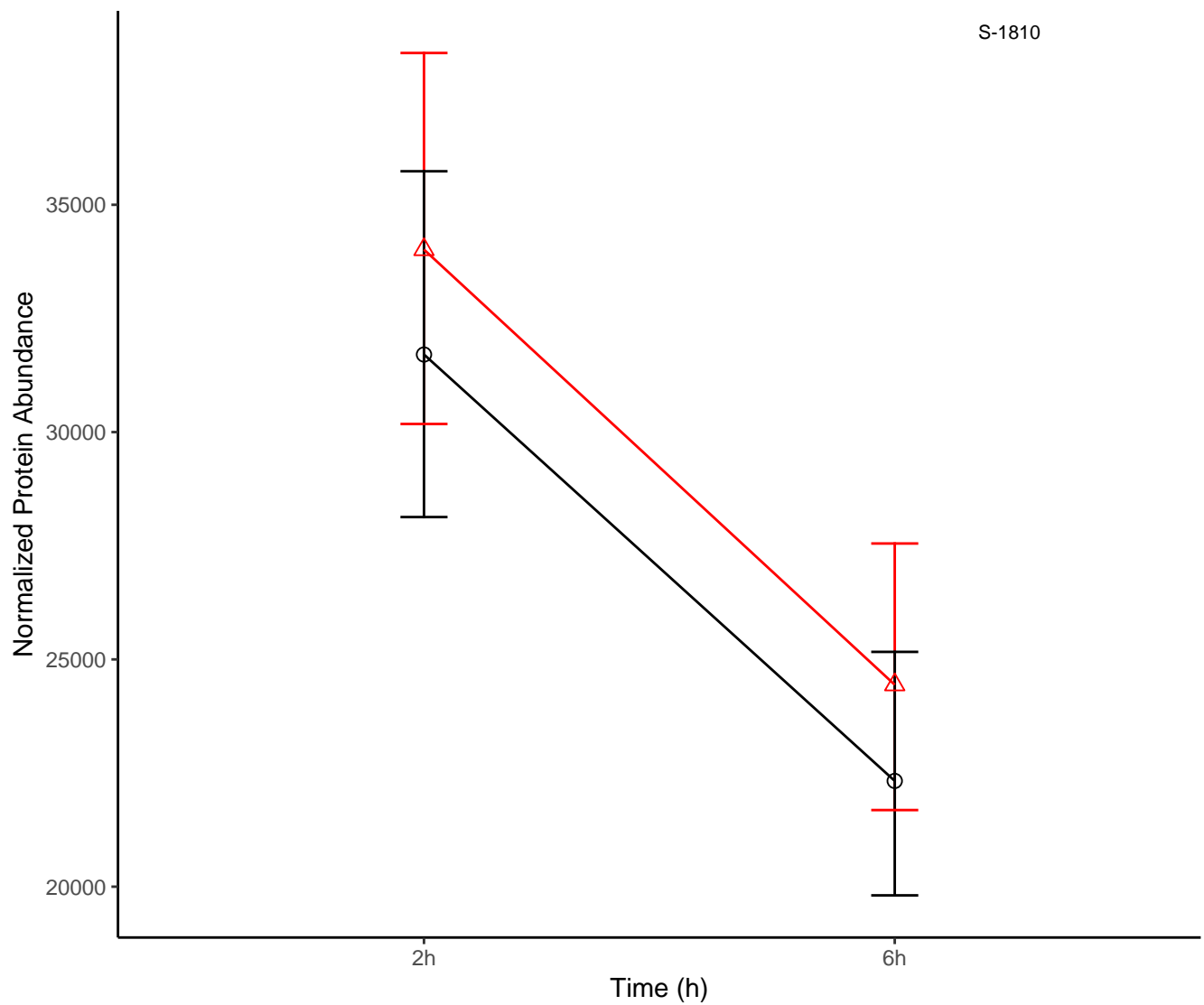


○ TSB-dex

△ TSB

# RL10\_STAAM

S-1810

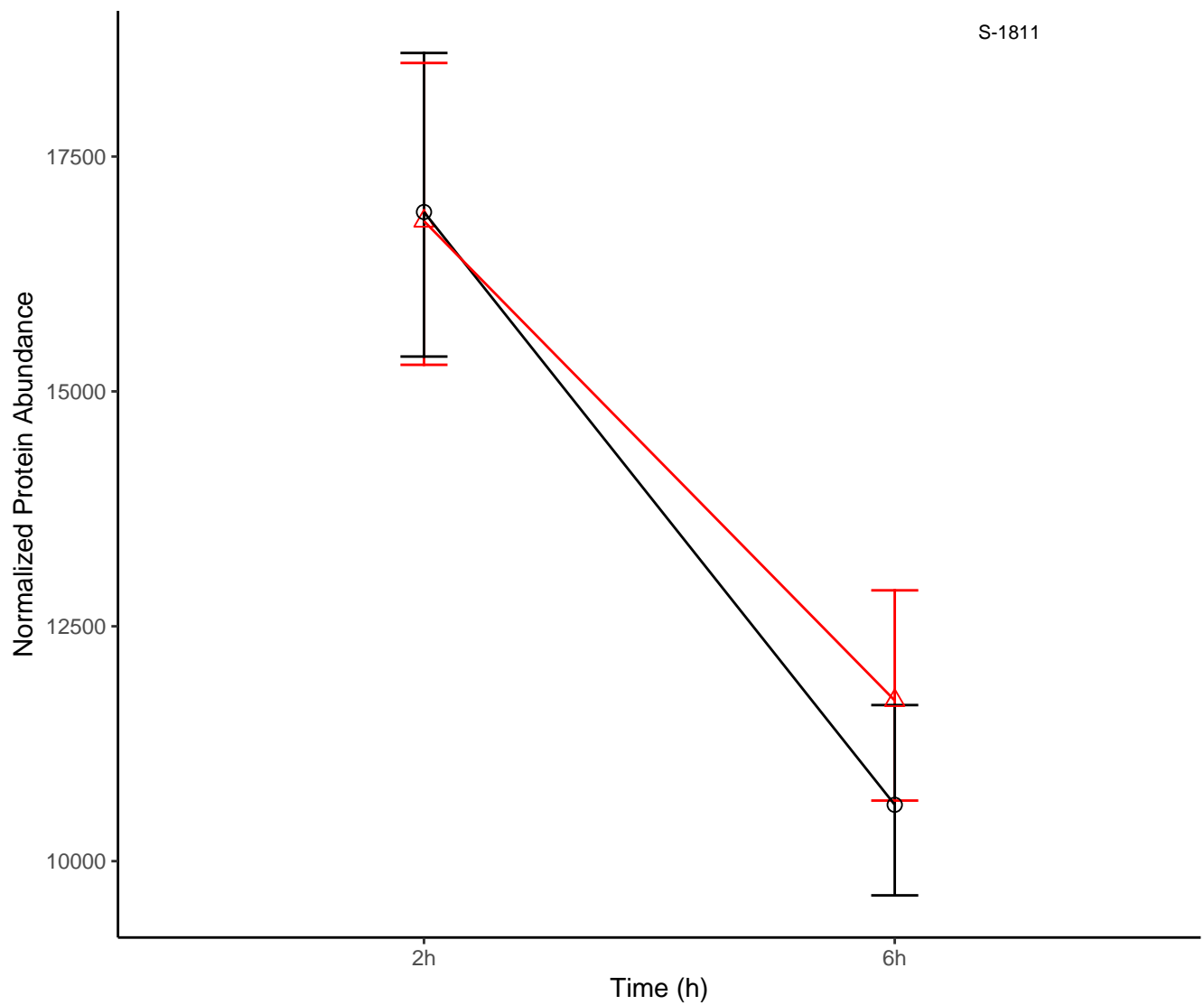


○ TSB-dex

△ TSB

# RL11\_STAAM

S-1811

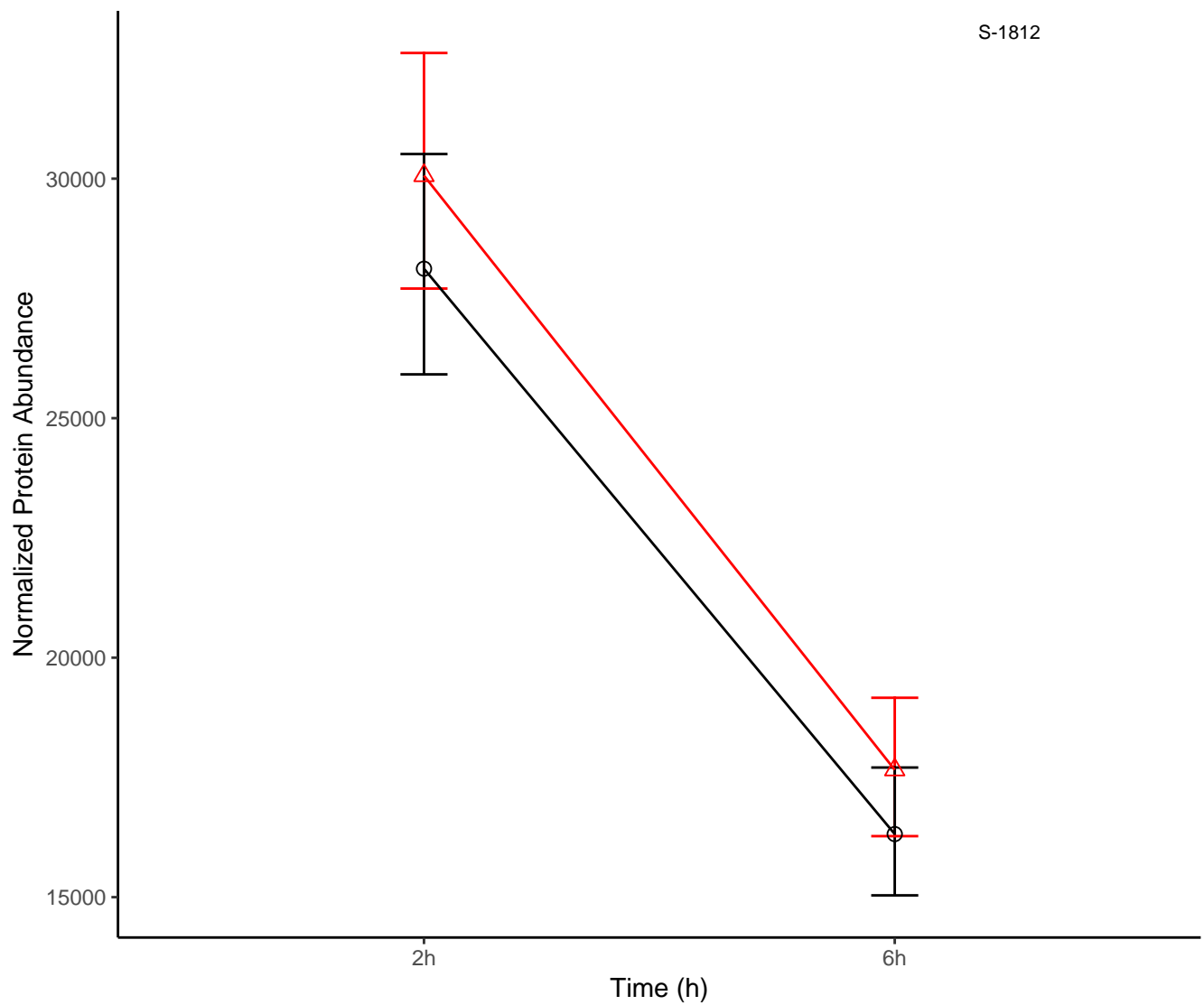


○ TSB-dex

△ TSB

# RL13\_STAAM

S-1812

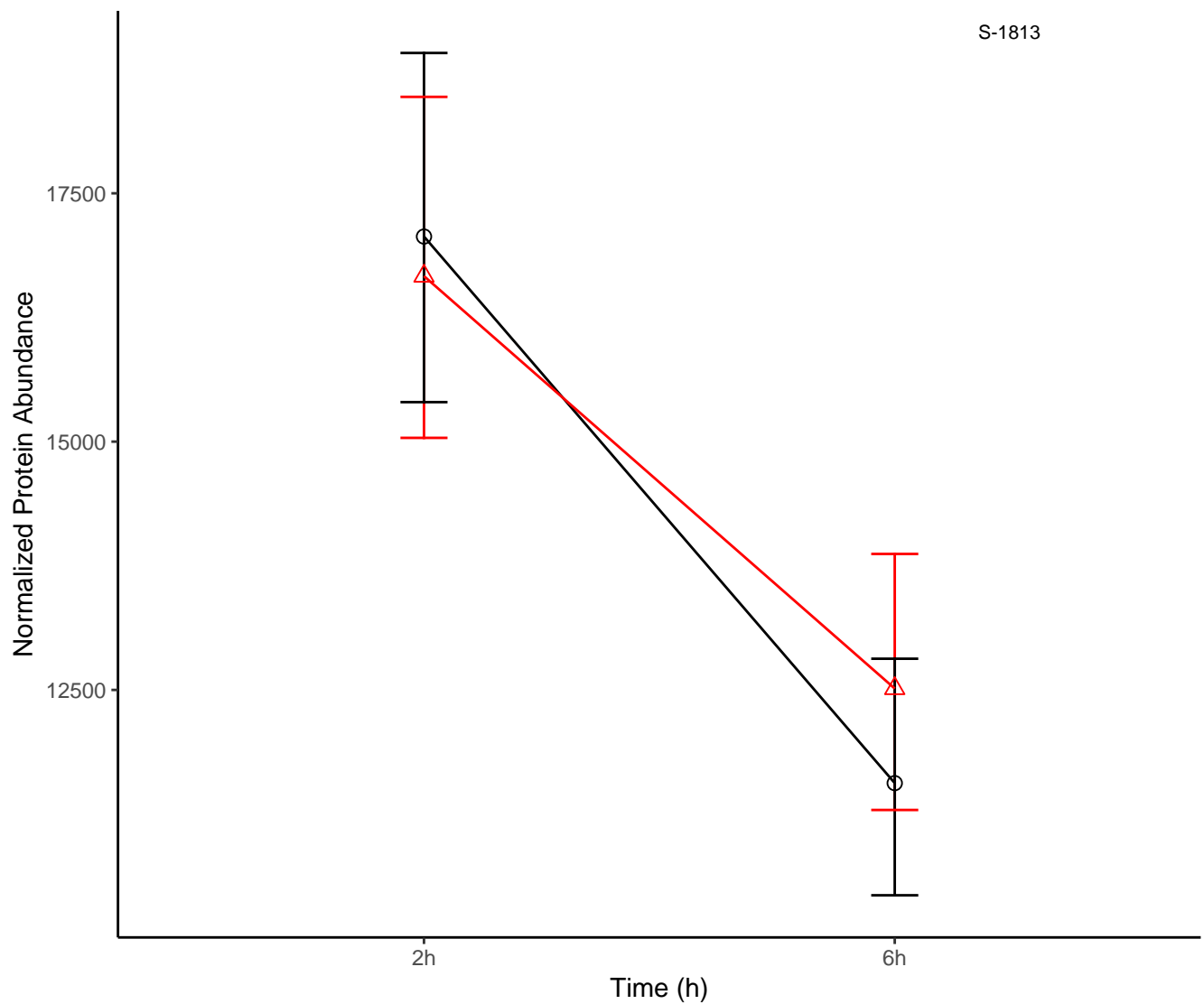


○ TSB-dex

△ TSB

# RL14\_STAAM

S-1813

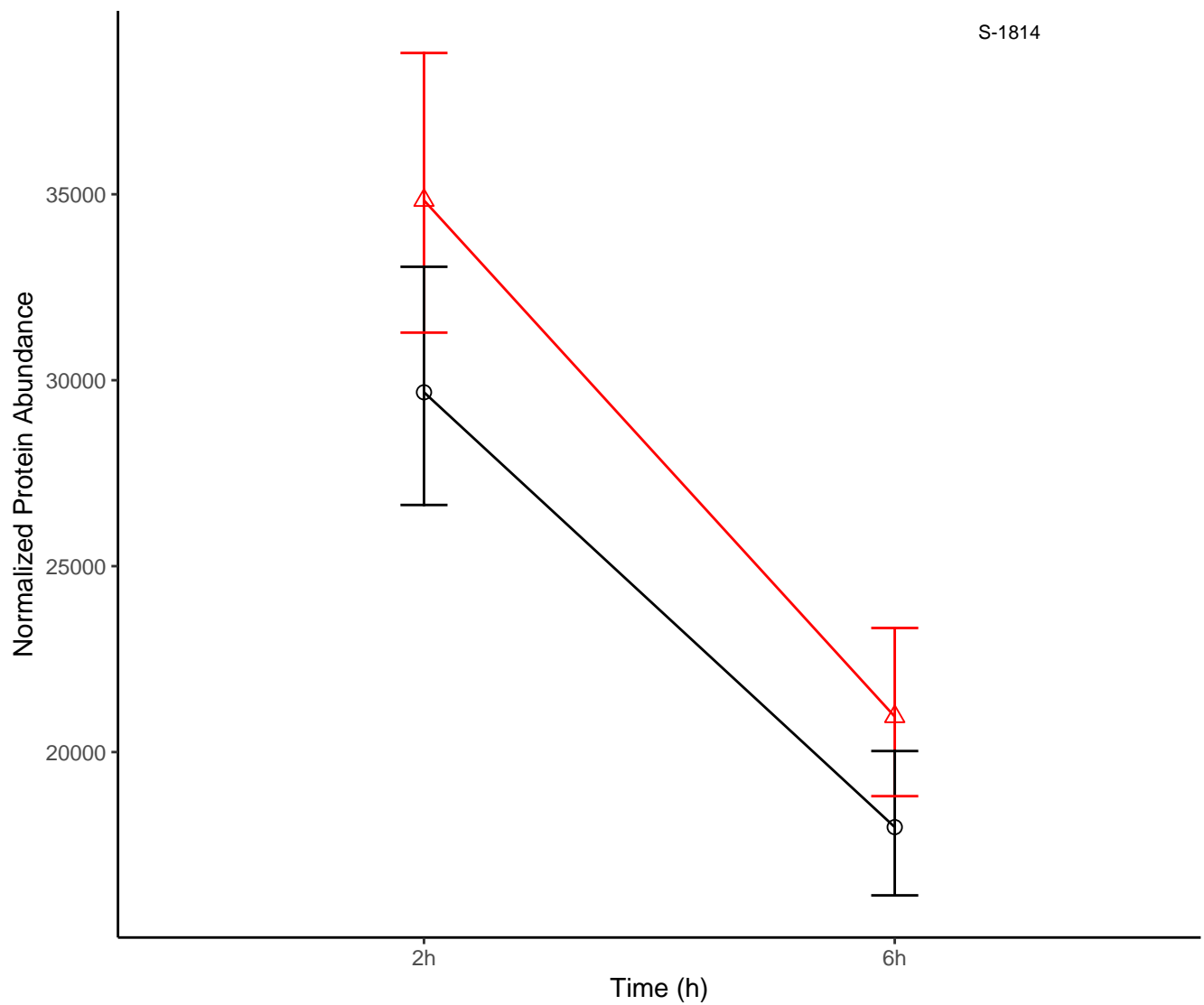


○ TSB-dex

△ TSB

# RL15\_STAAM

S-1814

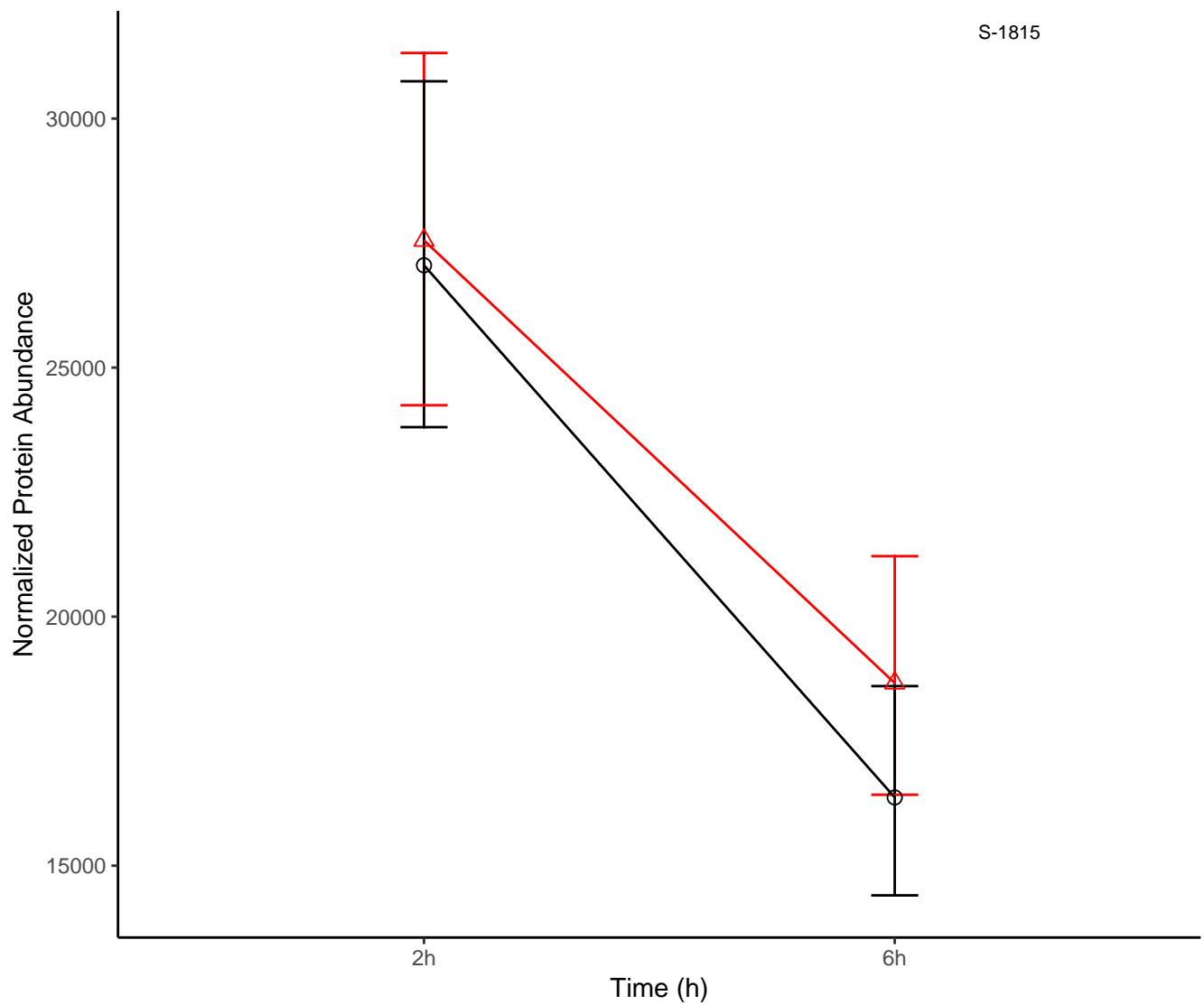


○ TSB-dex

△ TSB

# RL16\_STAAM

S-1815

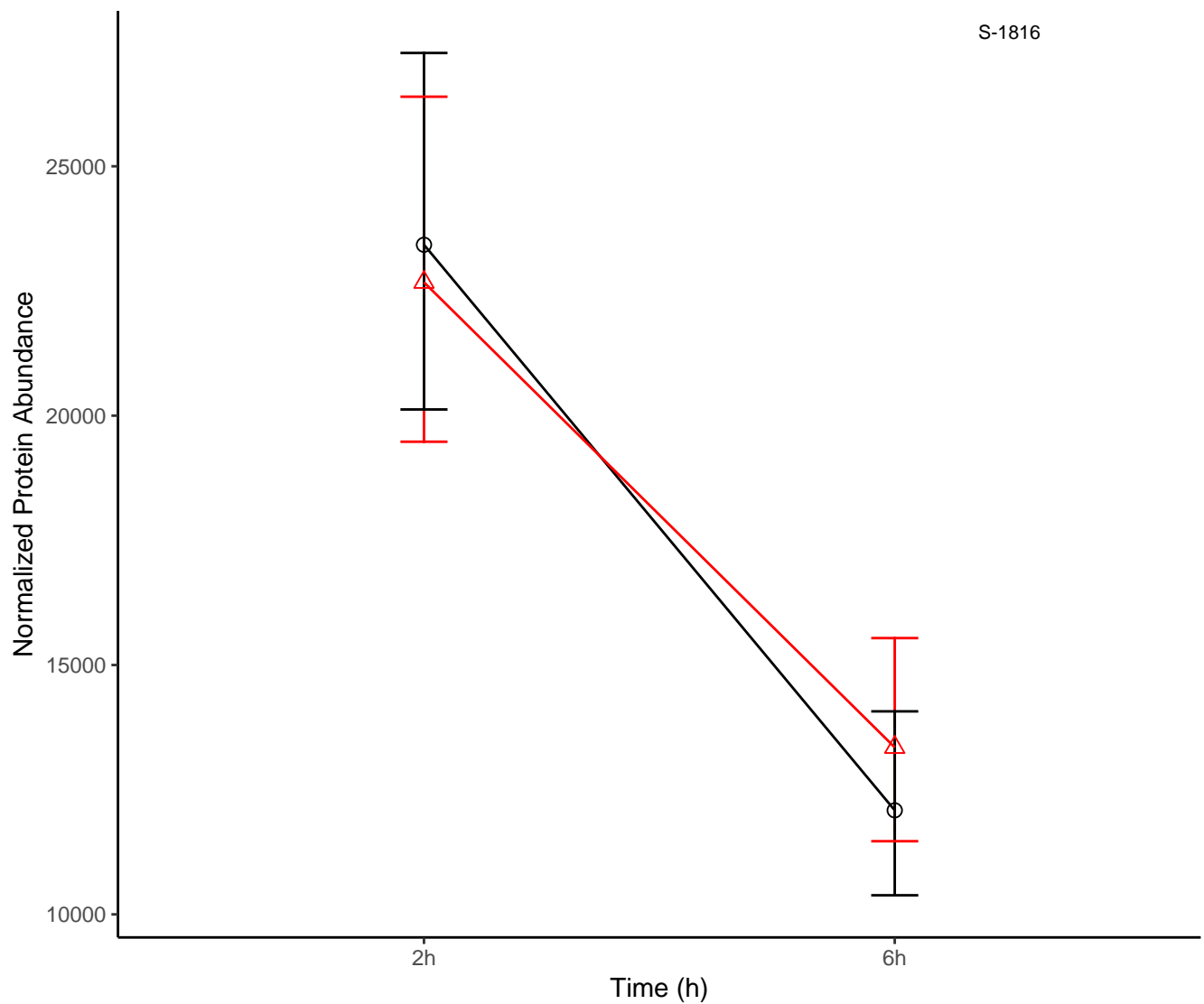


○ TSB-dex

△ TSB

# RL17\_STAAM

S-1816



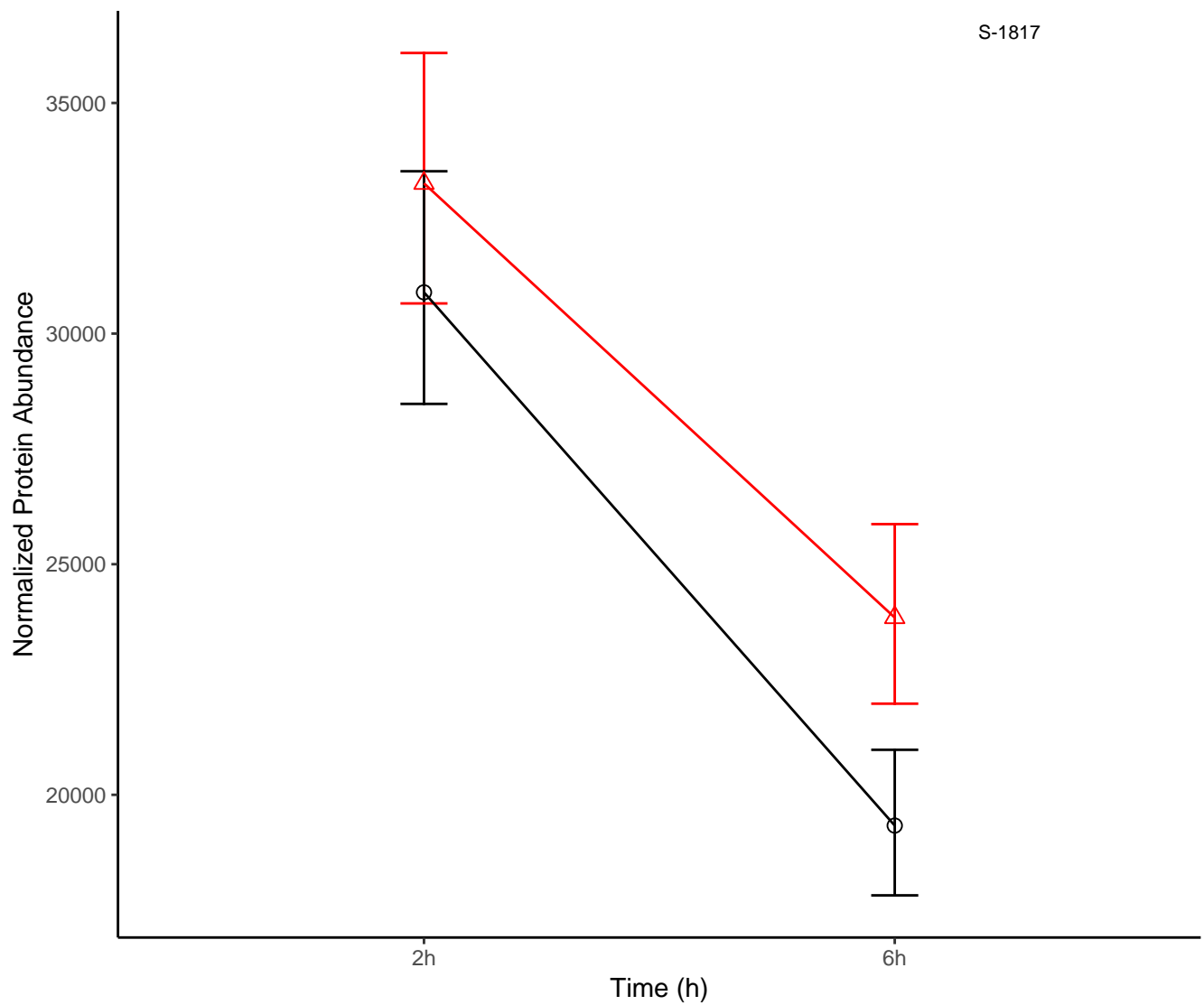
○ TSB-dex

△ TSB



# RL18\_STAAM

S-1817

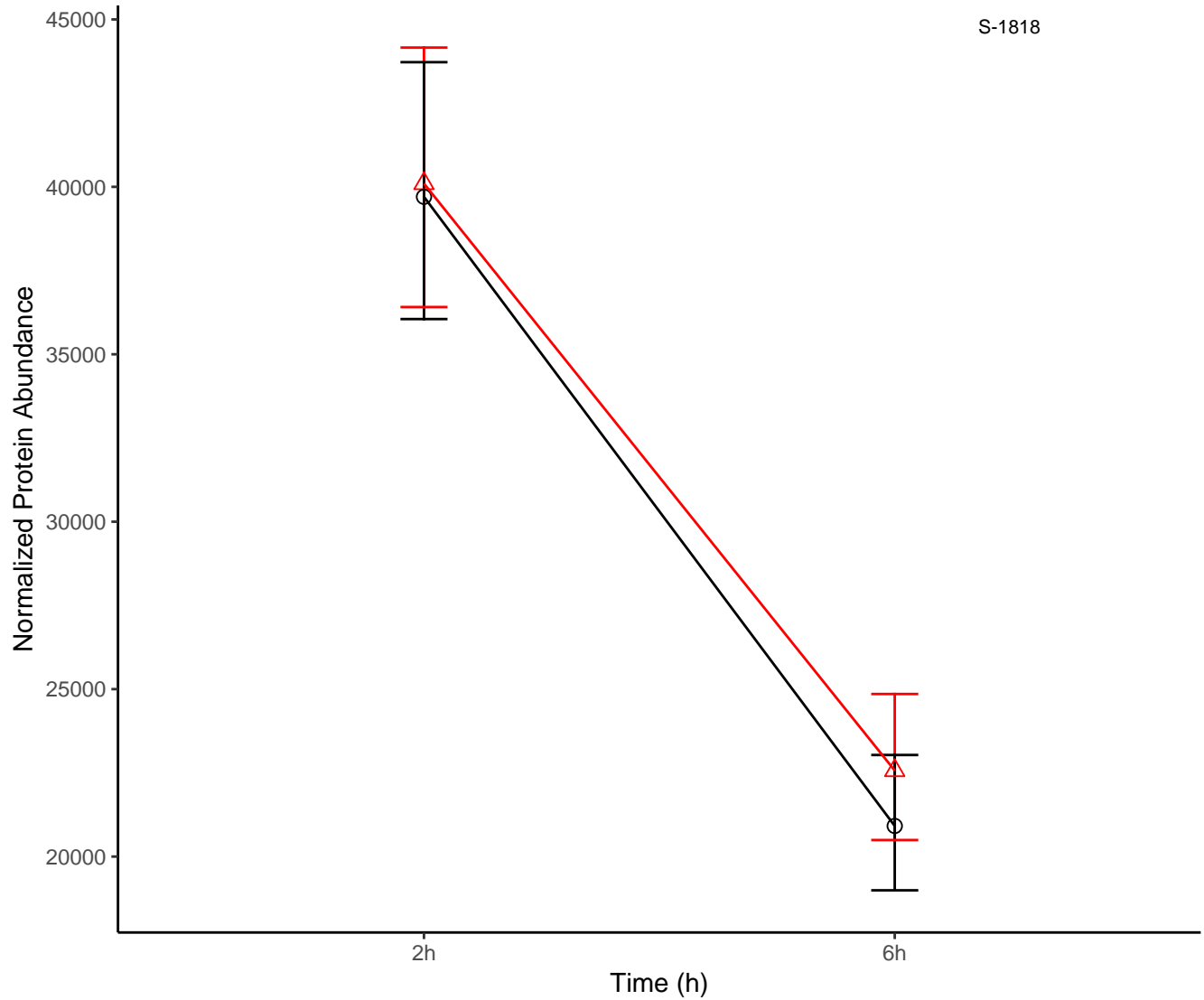


○ TSB-dex

△ TSB

# RL19\_STAAM

S-1818

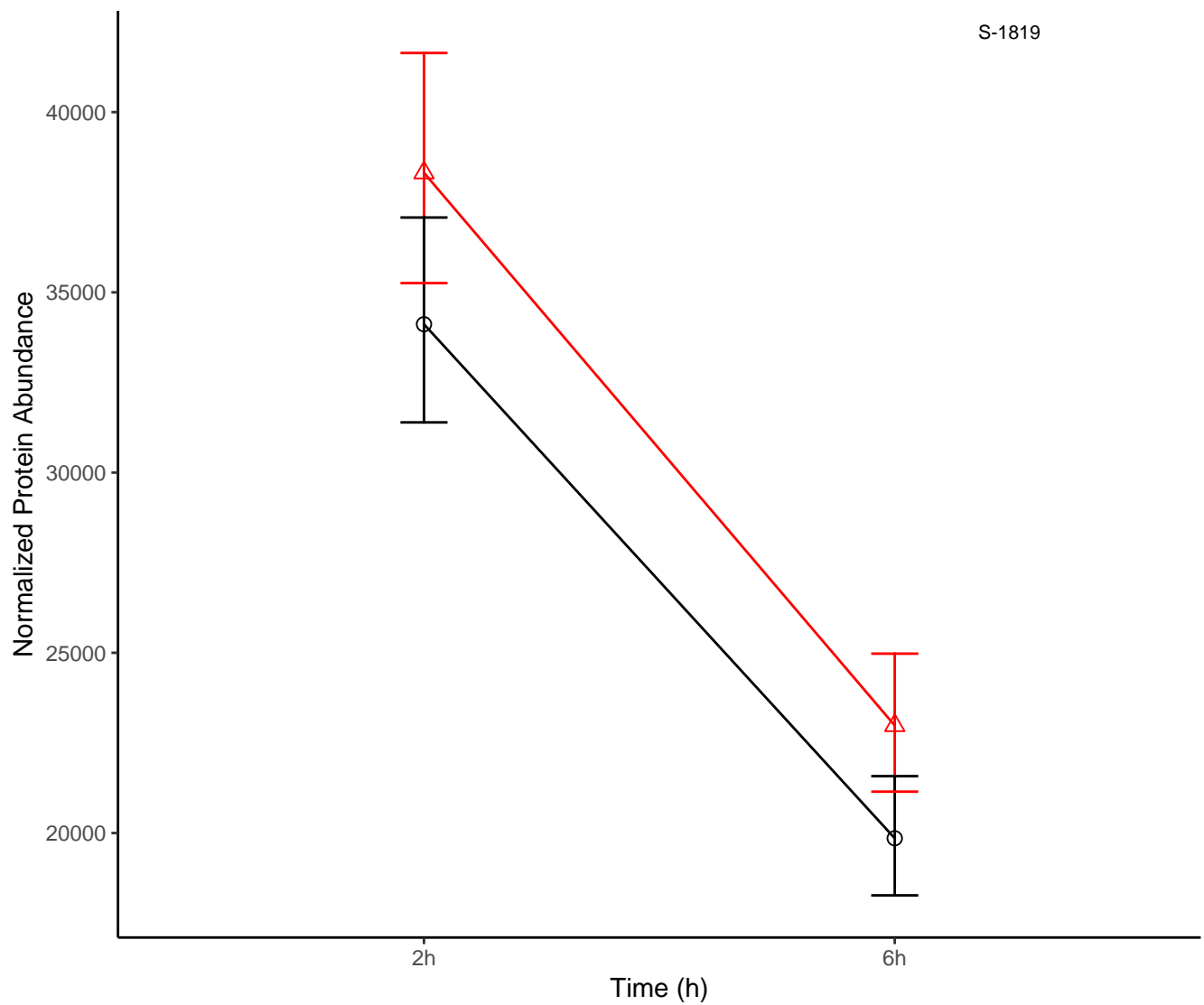


○ TSB-dex

△ TSB

# RL2\_STAAM

S-1819

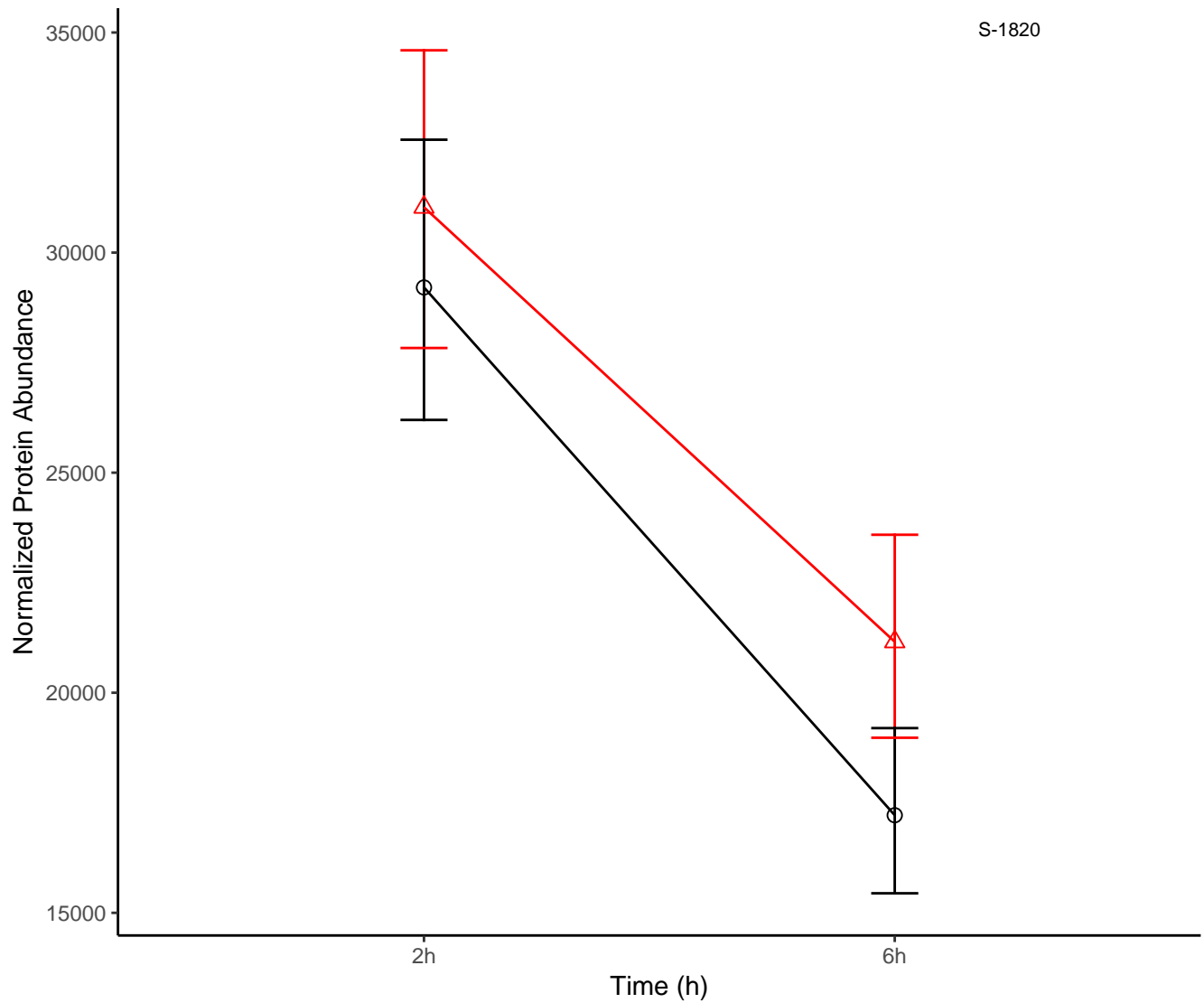


○ TSB-dex

△ TSB

# RL20\_STAAM

S-1820

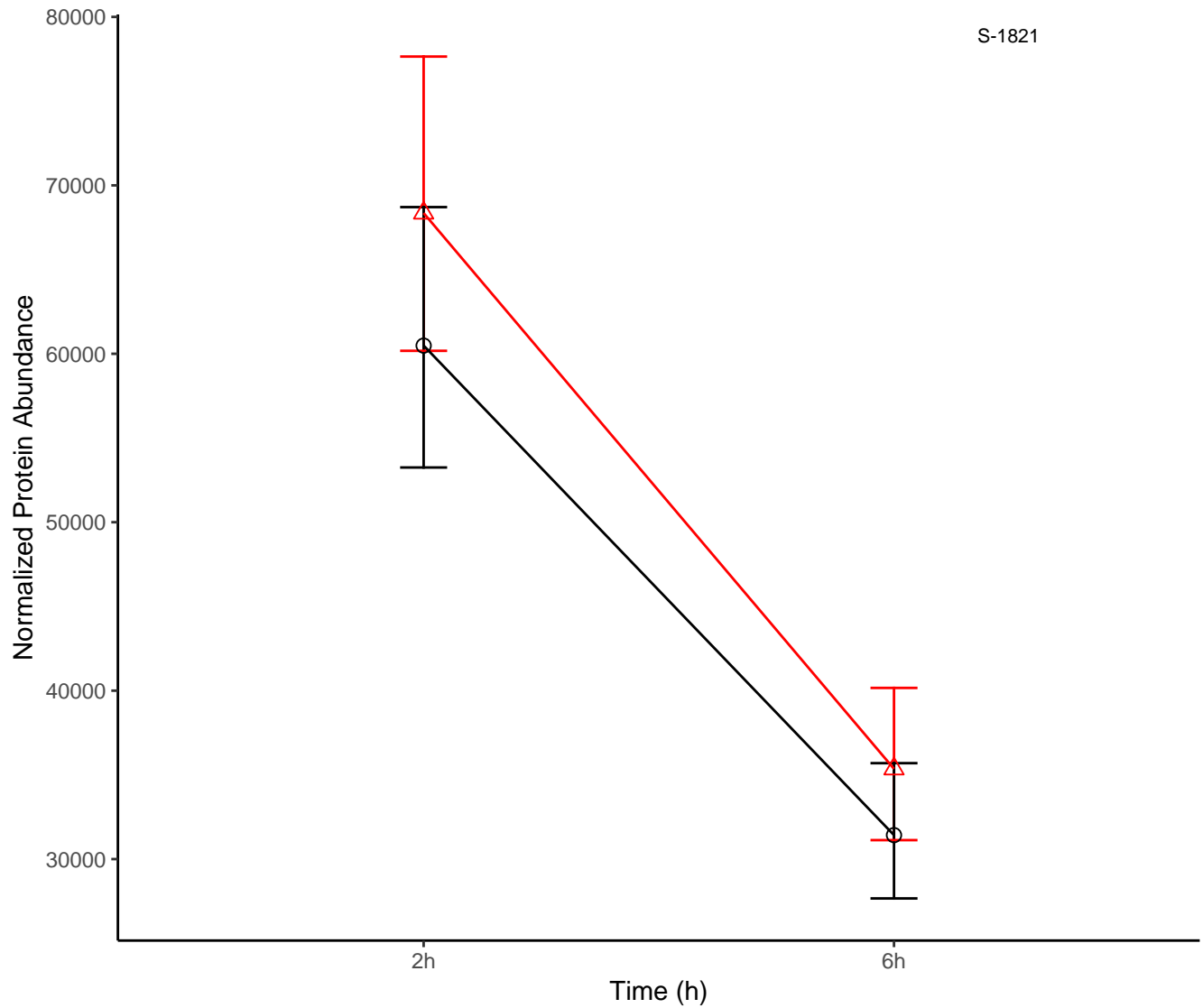


○ TSB-dex

△ TSB

# RL21\_STAAM

S-1821

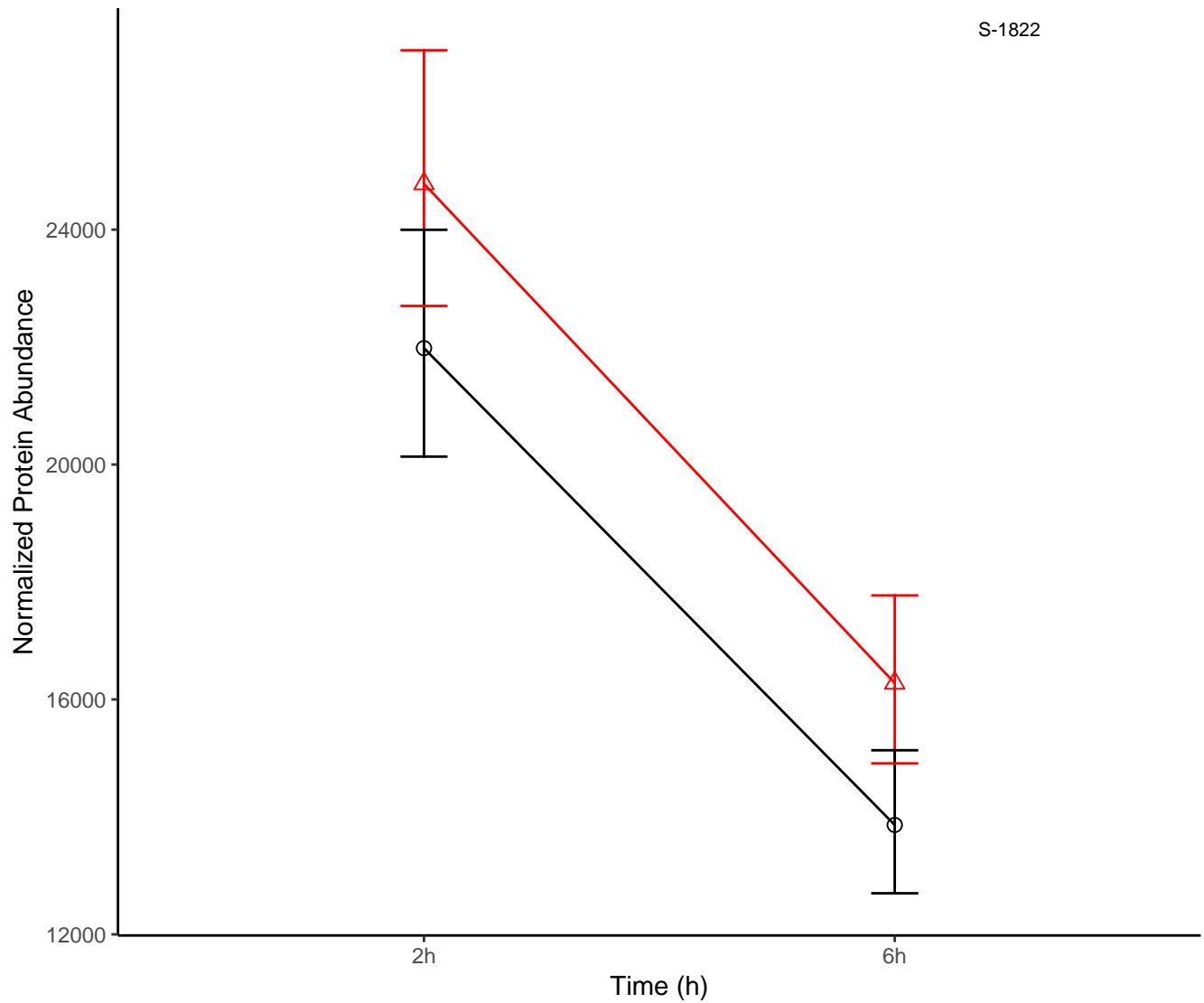


○ TSB-dex

△ TSB

# RL22\_STAAM

S-1822

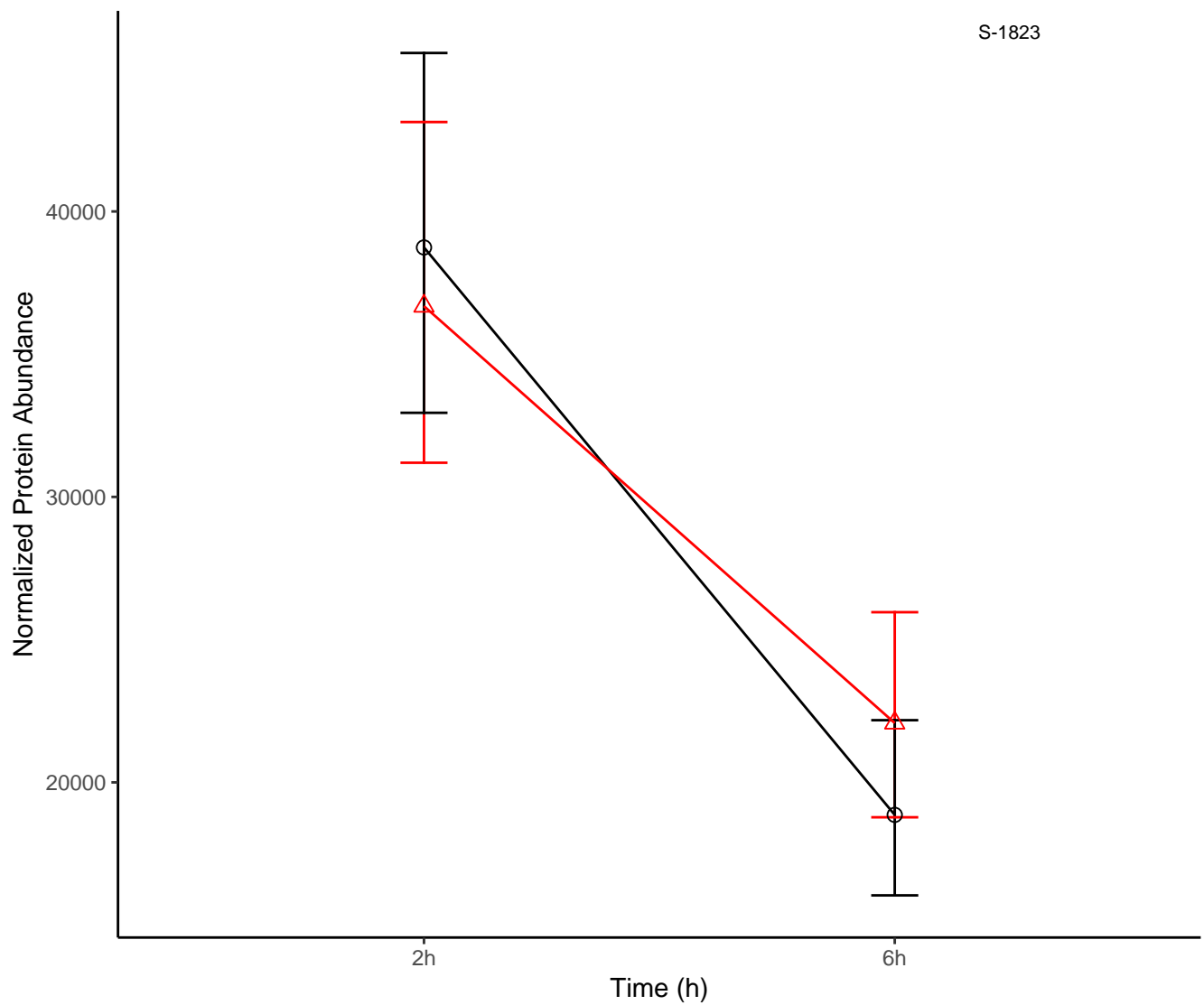


○ TSB-dex

△ TSB

# RL23\_STAAM

S-1823

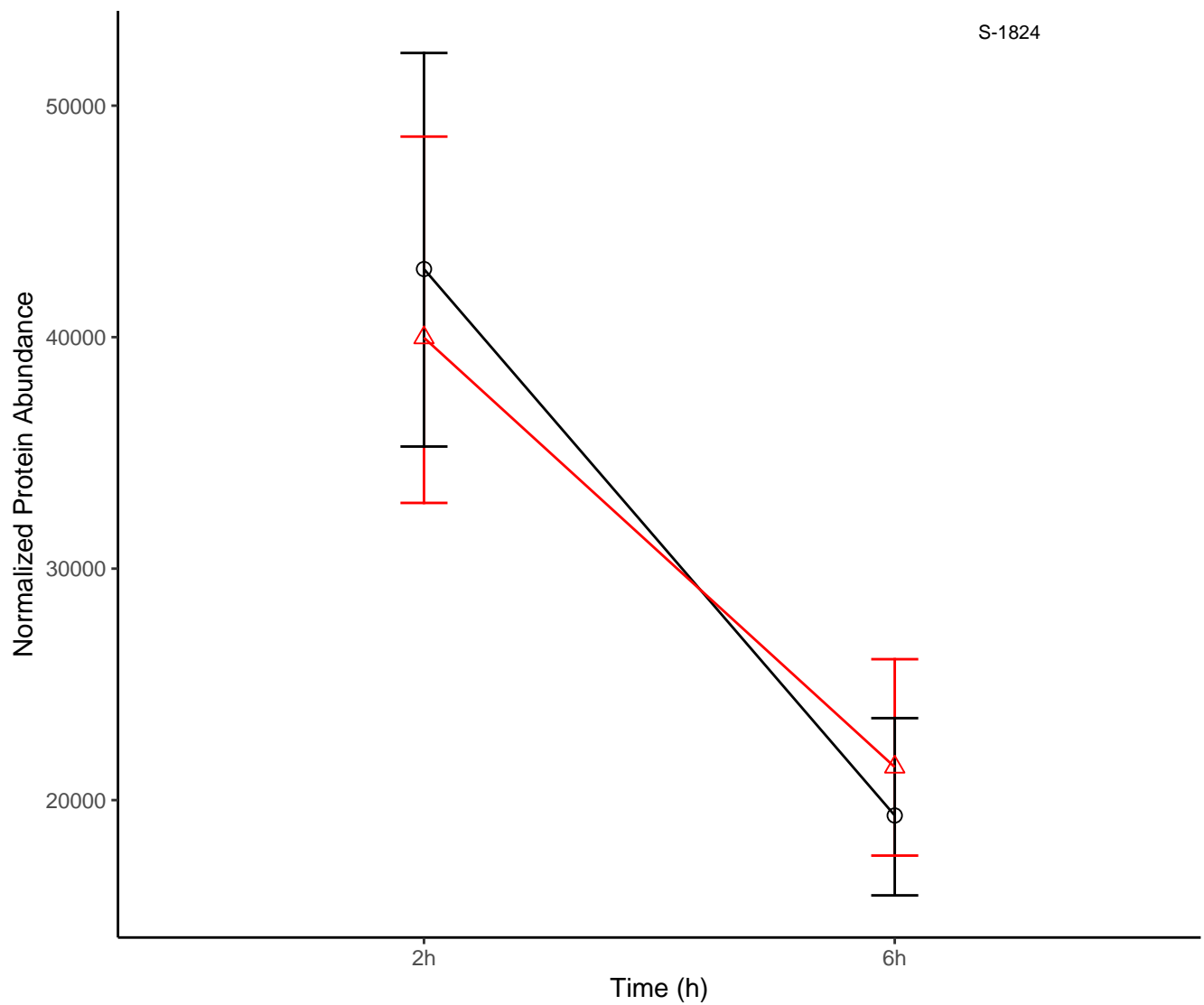


○ TSB-dex

△ TSB

# RL24\_STAAM

S-1824



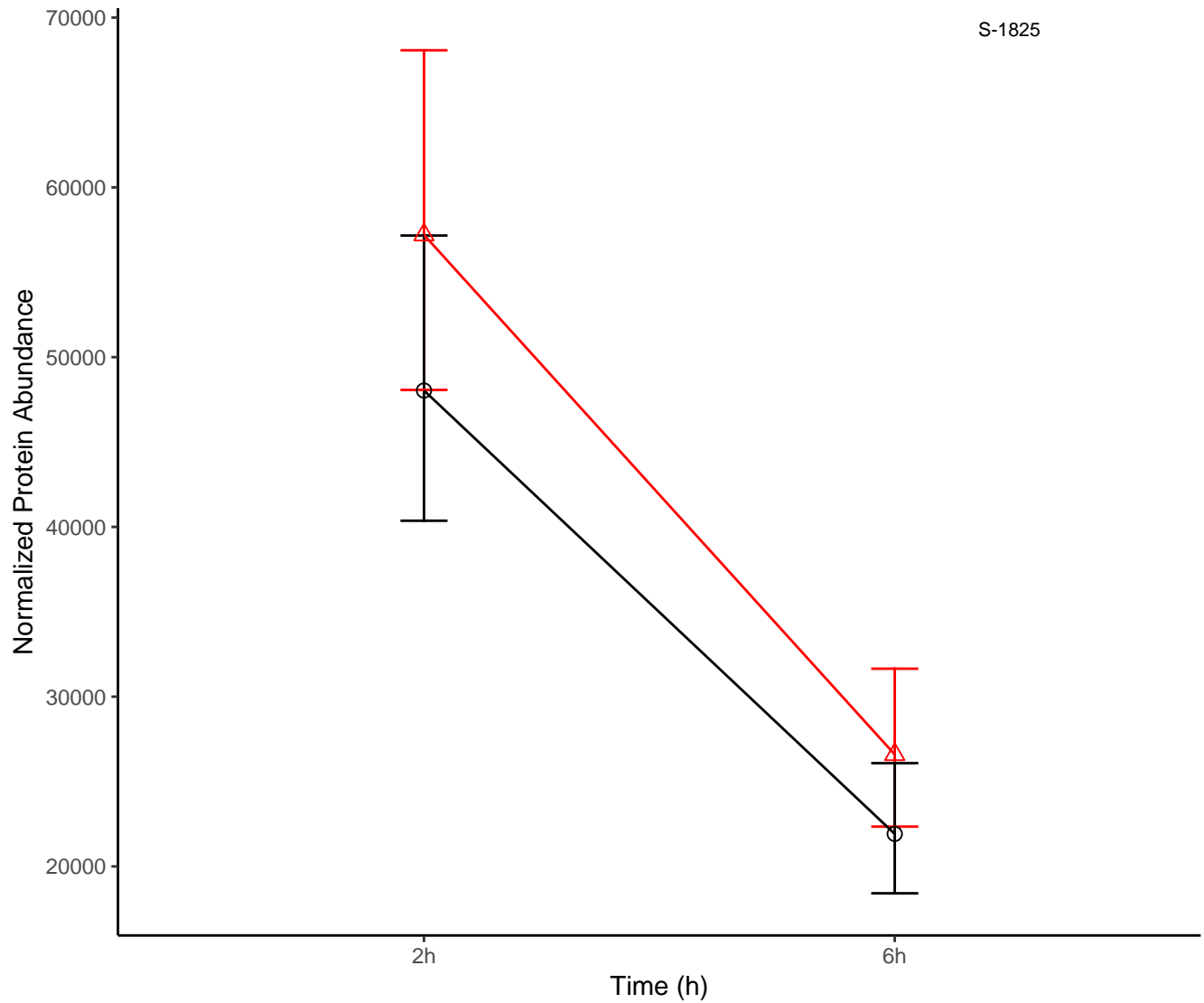
○ TSB-dex

△ TSB



# RL25\_STAAM

S-1825

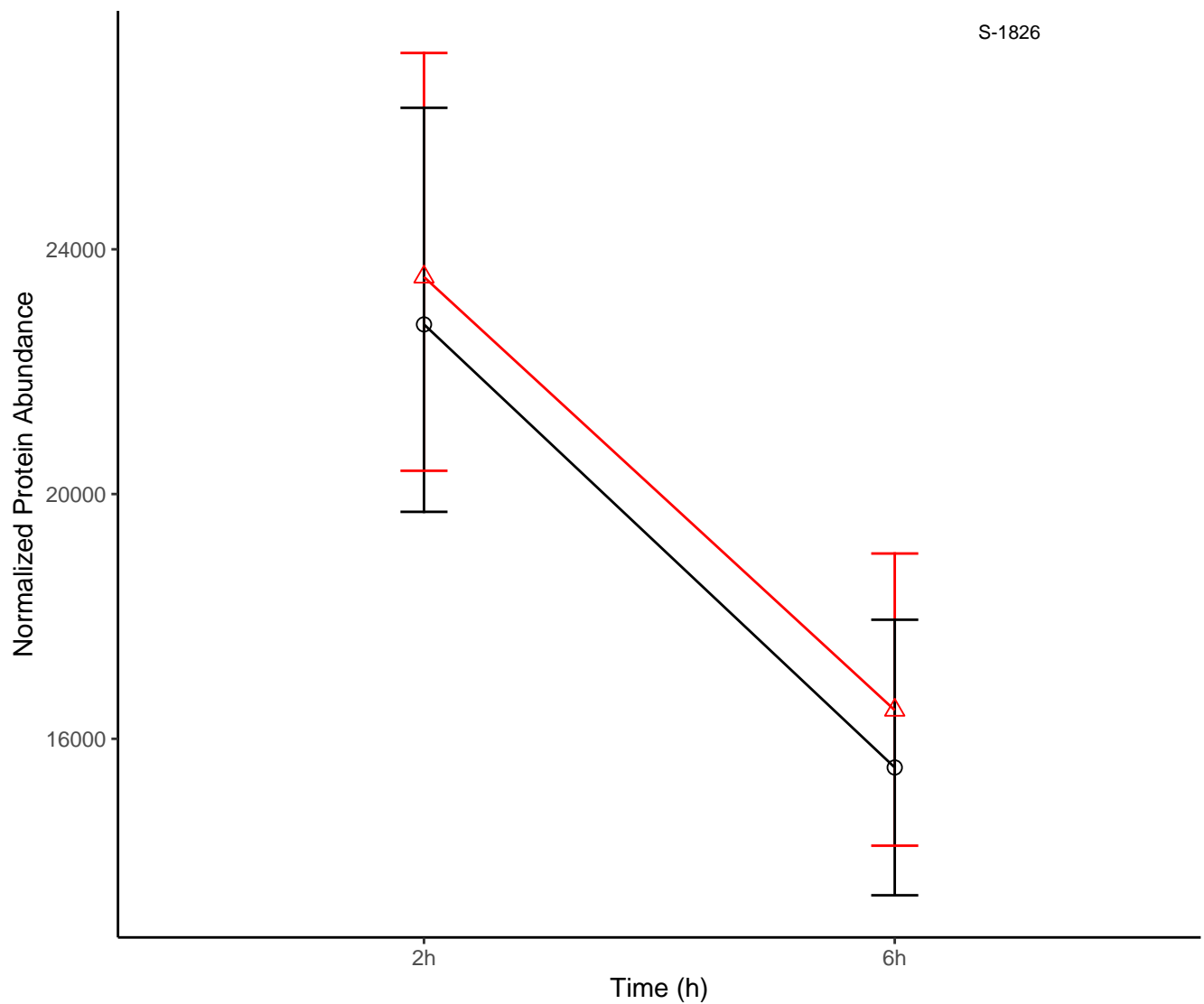


○ TSB-dex

△ TSB

# RL27\_STAAM

S-1826

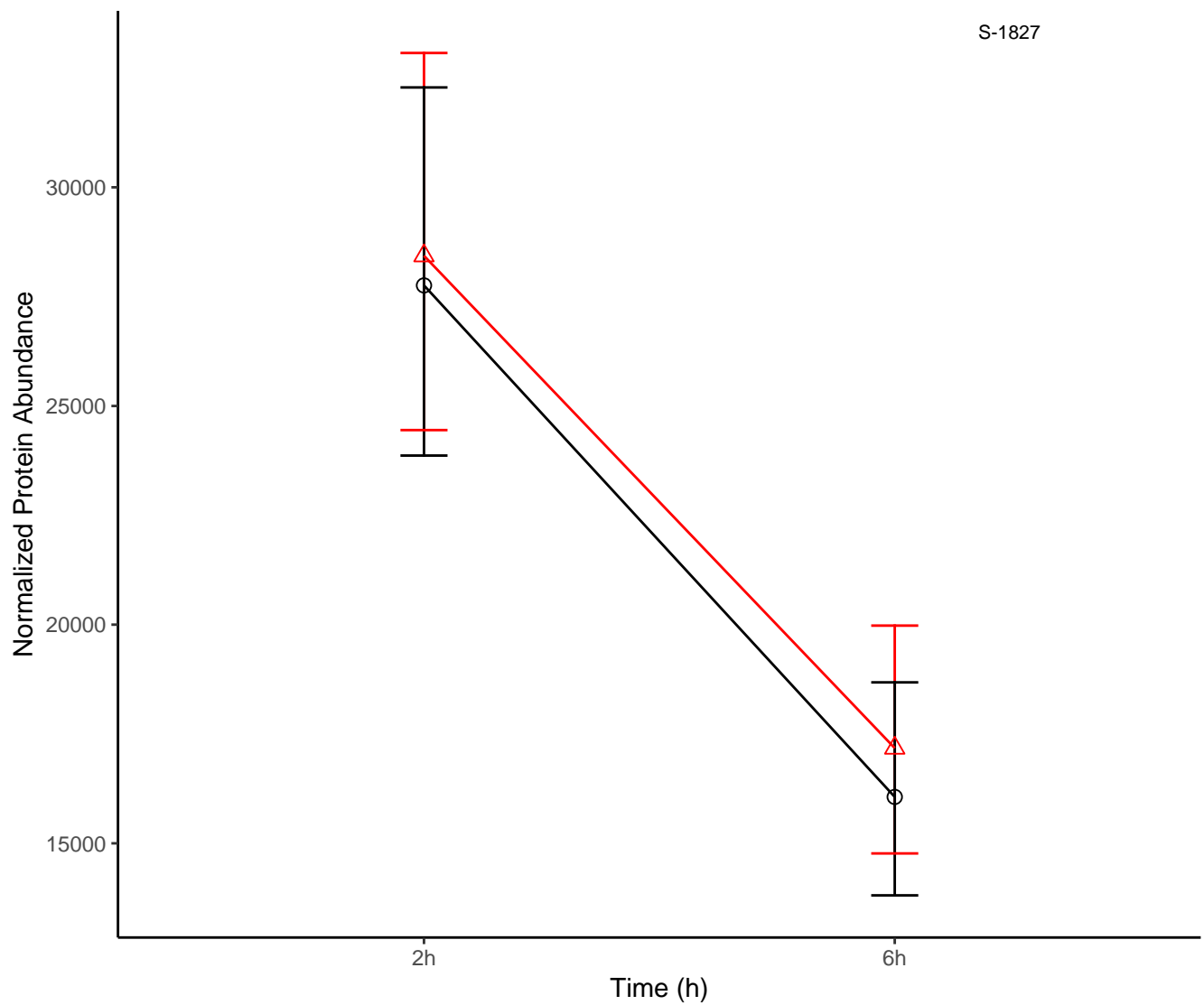


○ TSB-dex

△ TSB

# RL28\_STAAM

S-1827

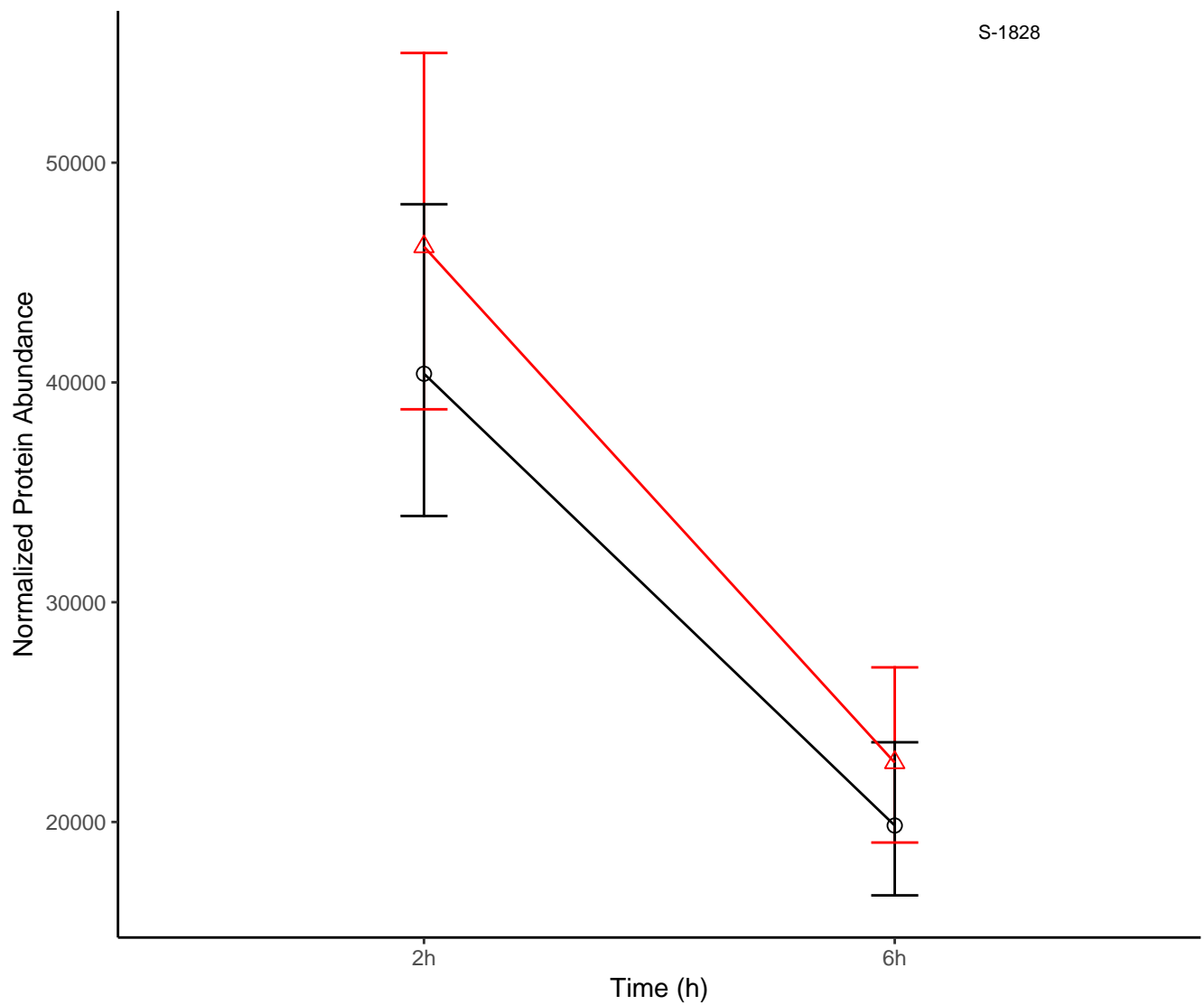


○ TSB-dex

△ TSB

# RL29\_STAAM

S-1828

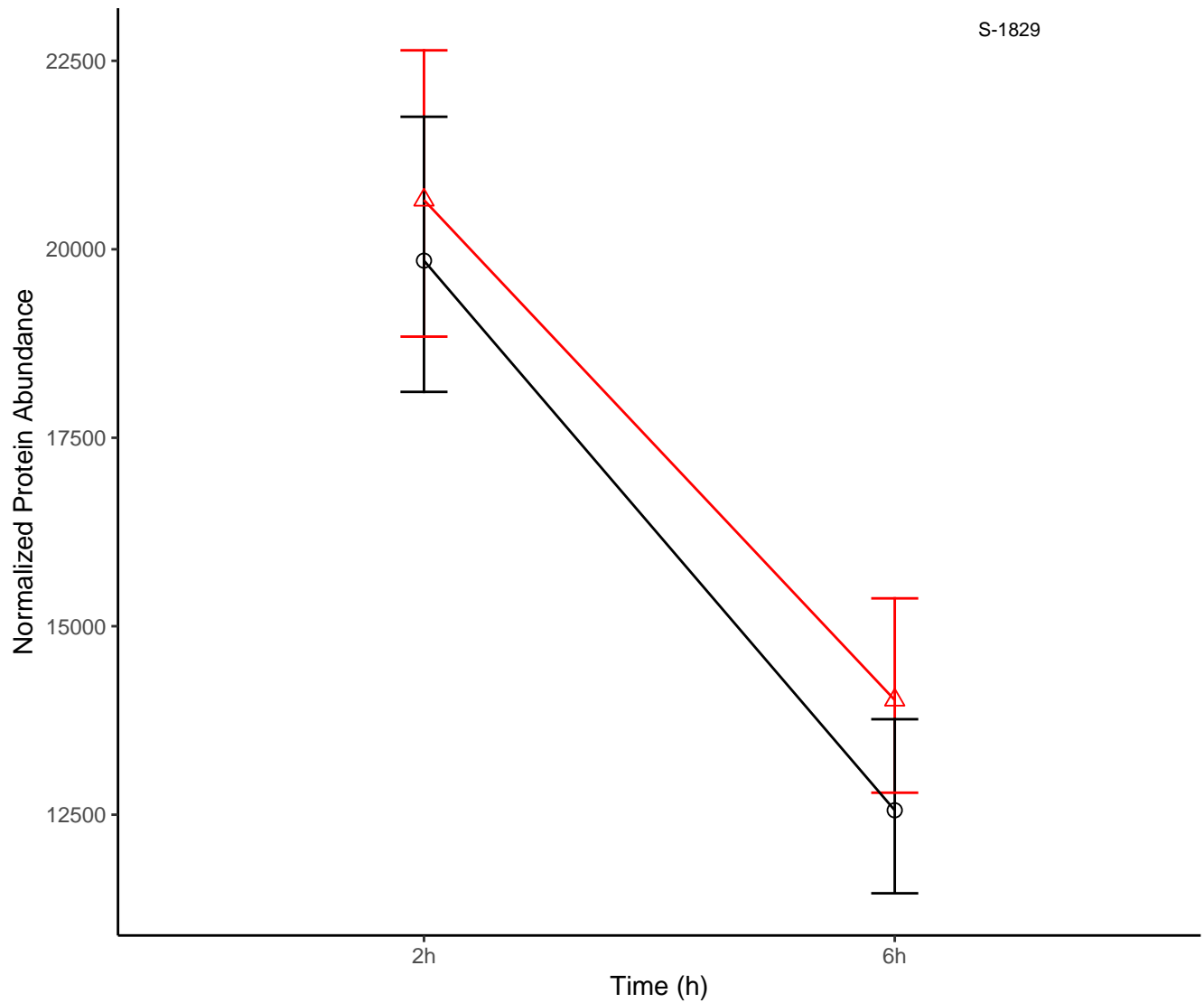


○ TSB-dex

△ TSB

# RL3\_STAAM

S-1829

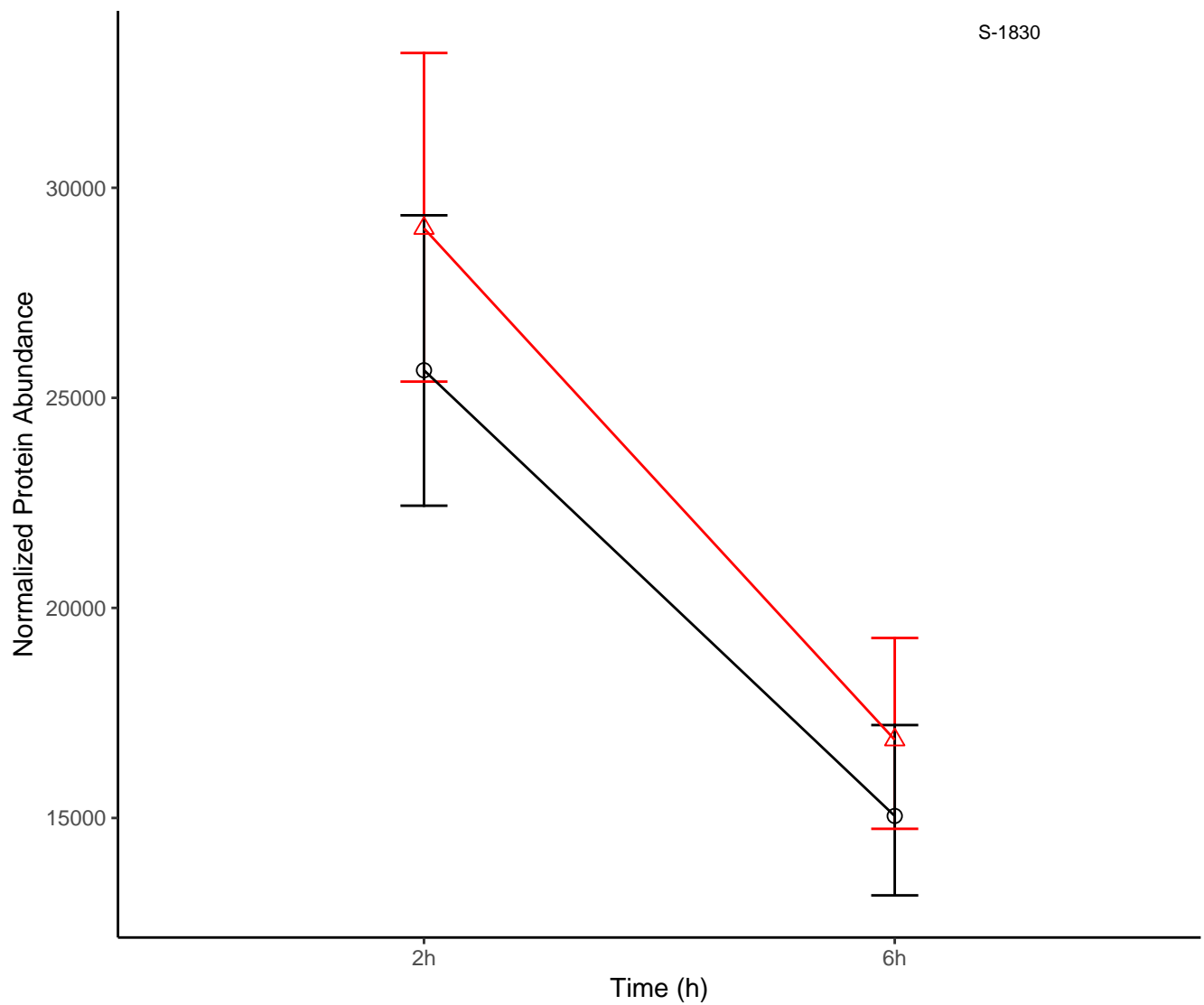


○ TSB-dex

△ TSB

# RL30\_STAAM

S-1830

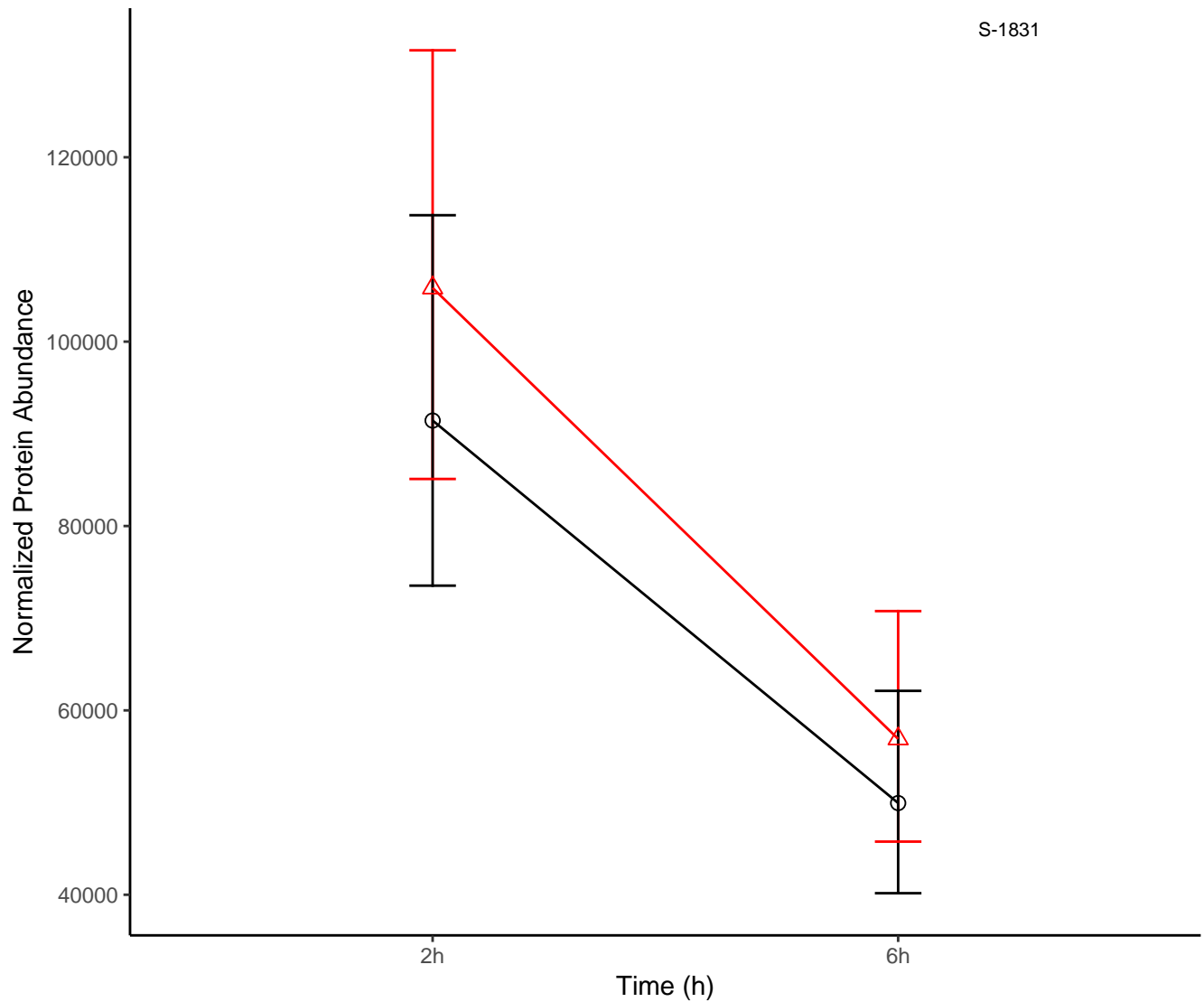


○ TSB-dex

△ TSB

# RL31B\_STAAM

S-1831

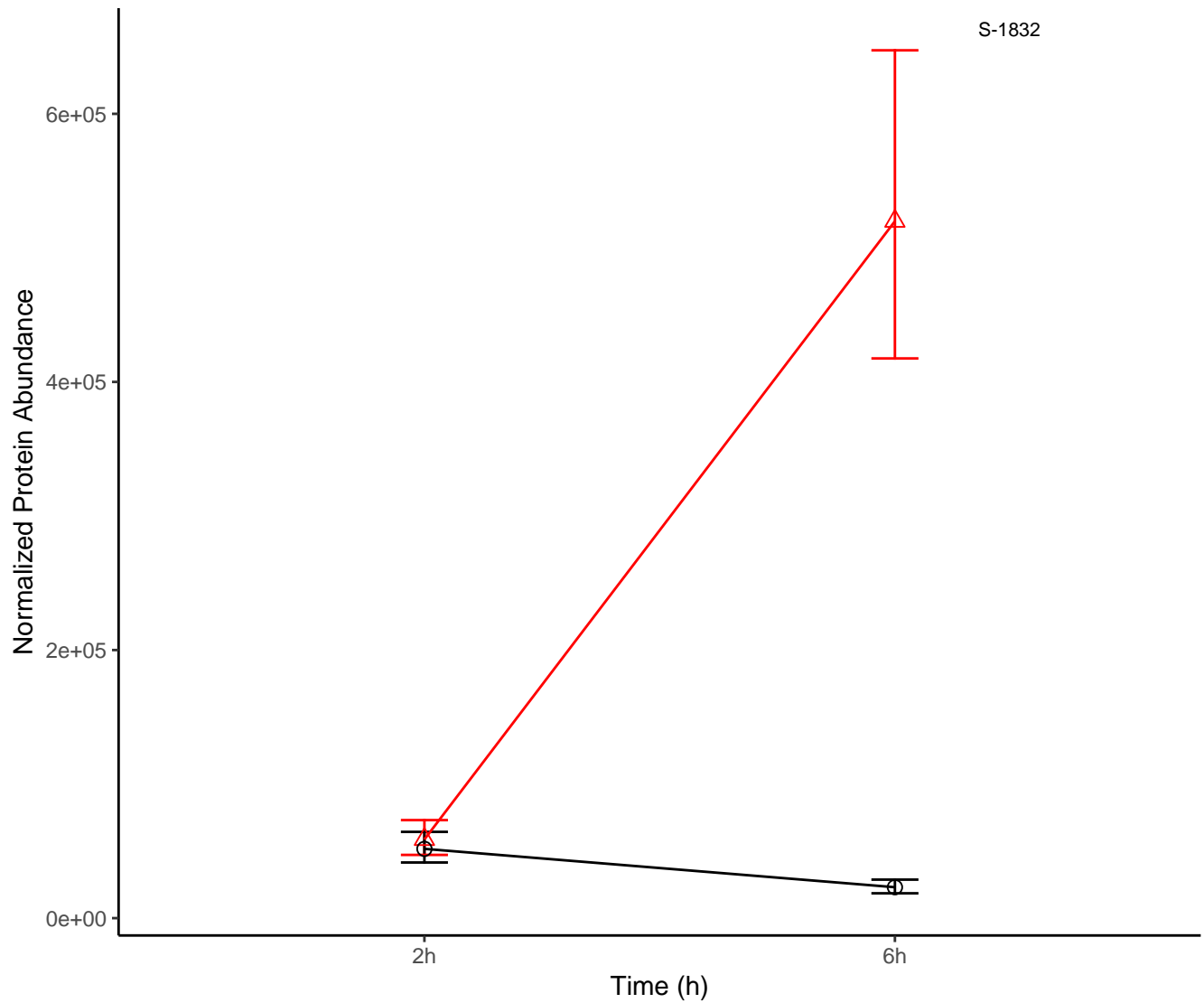


○ TSB-dex

△ TSB

# RL32\_STAAM

S-1832

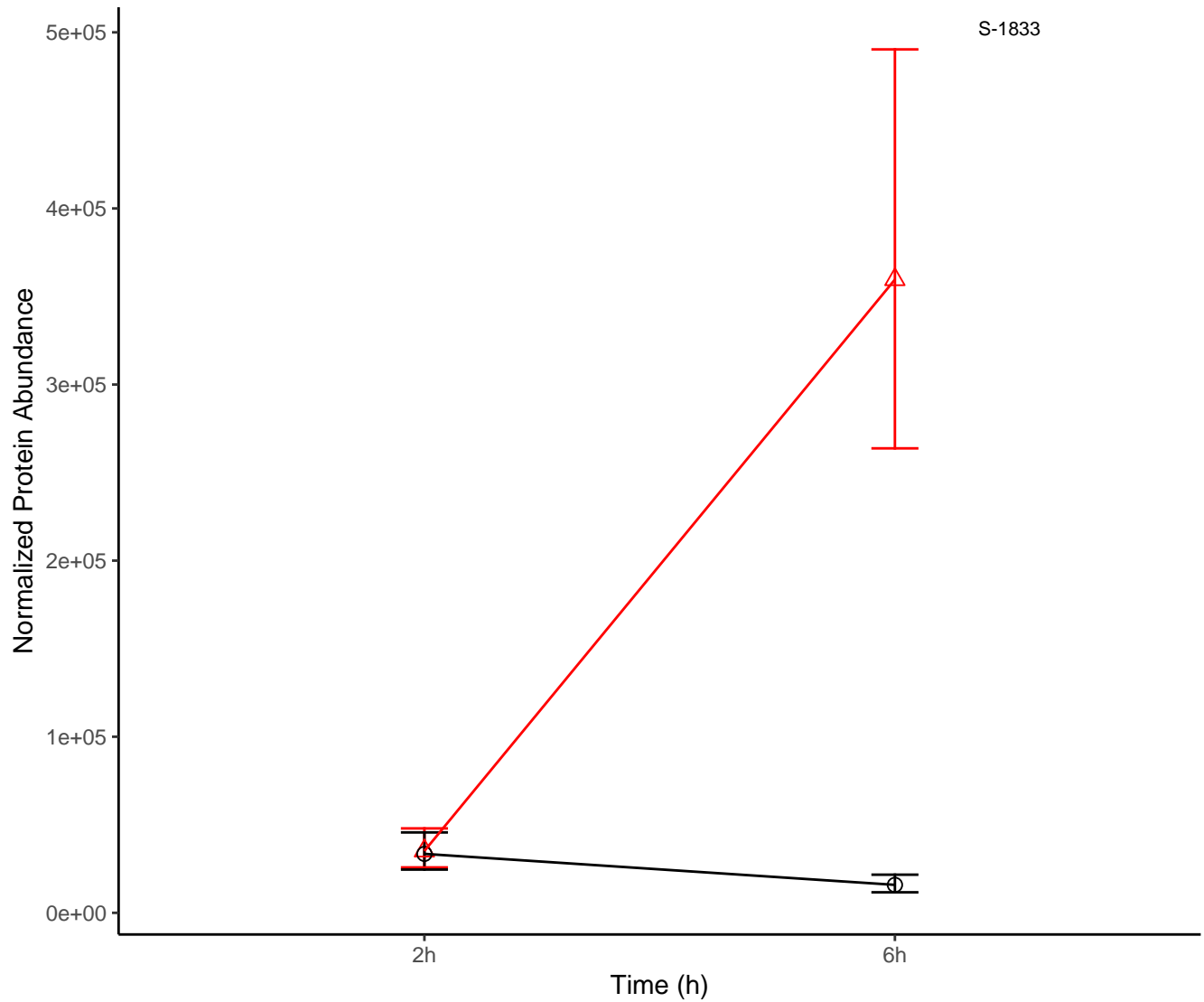


○ TSB-dex

△ TSB



# RL331\_STAAM

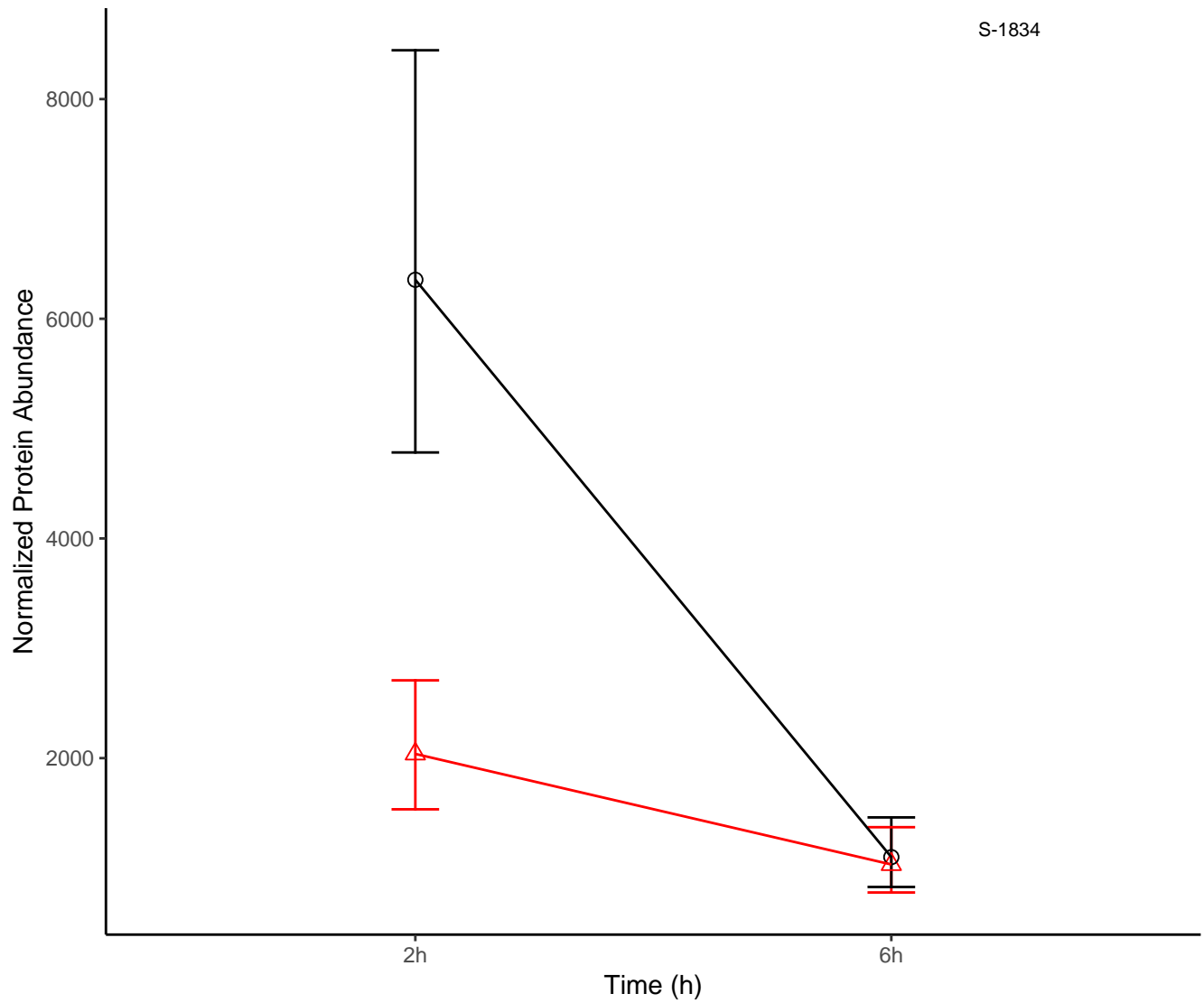


○ TSB-dex

△ TSB

# RL332\_STAAM

S-1834

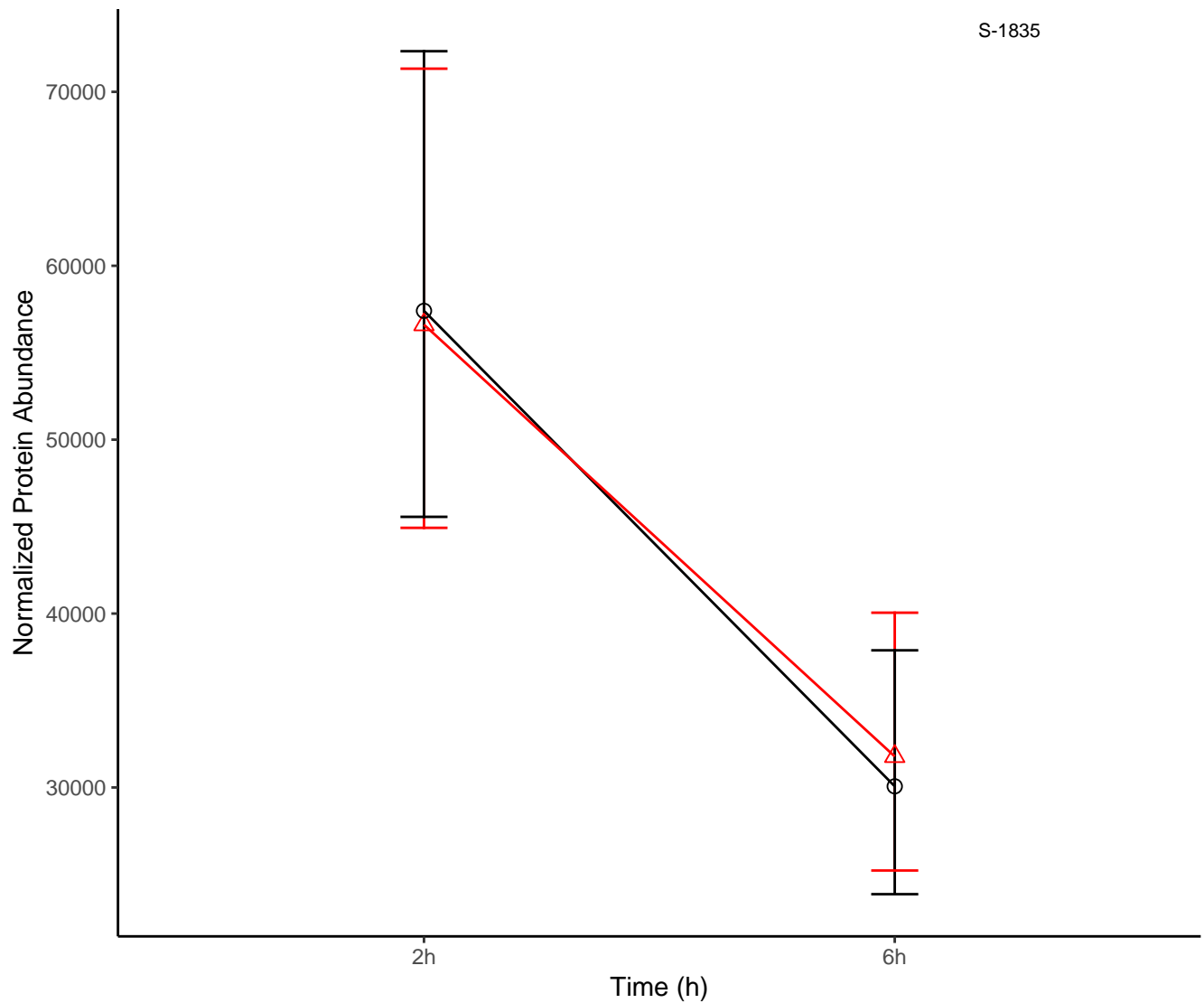


○ TSB-dex

△ TSB

# RL35\_STAAM

S-1835

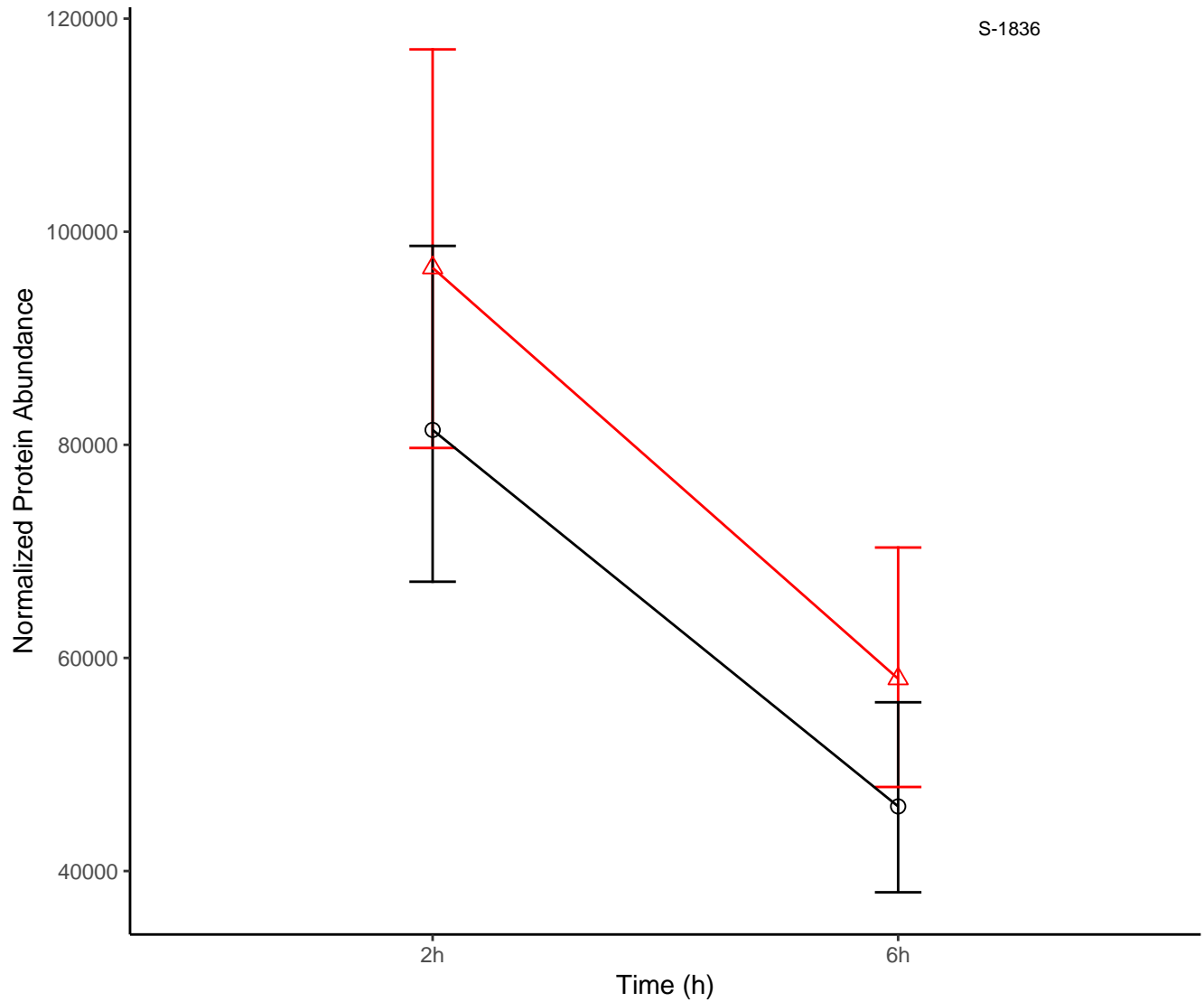


○ TSB-dex

△ TSB

# RL36\_STAAM

S-1836

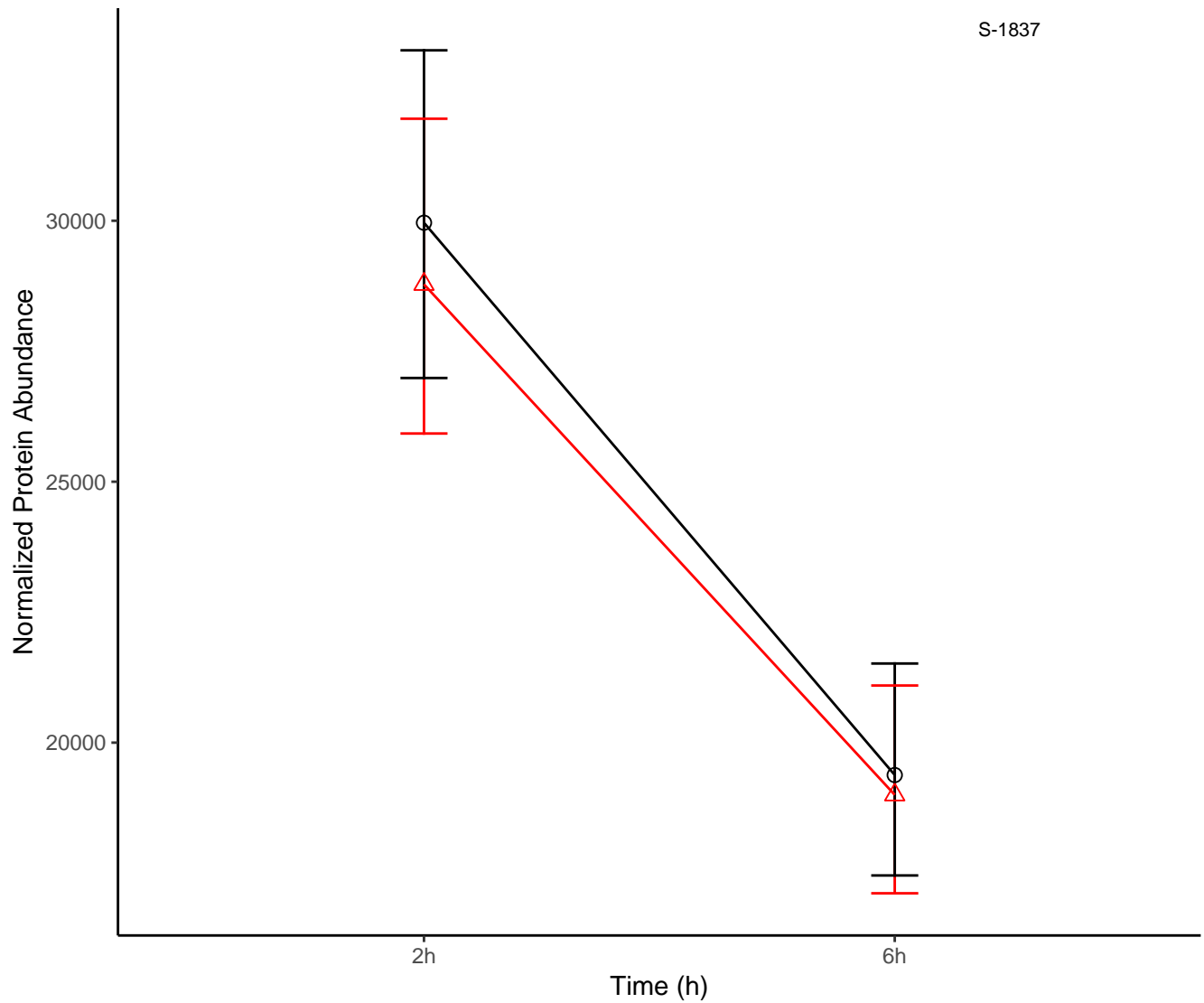


○ TSB-dex

△ TSB

# RL4\_STAAM

S-1837

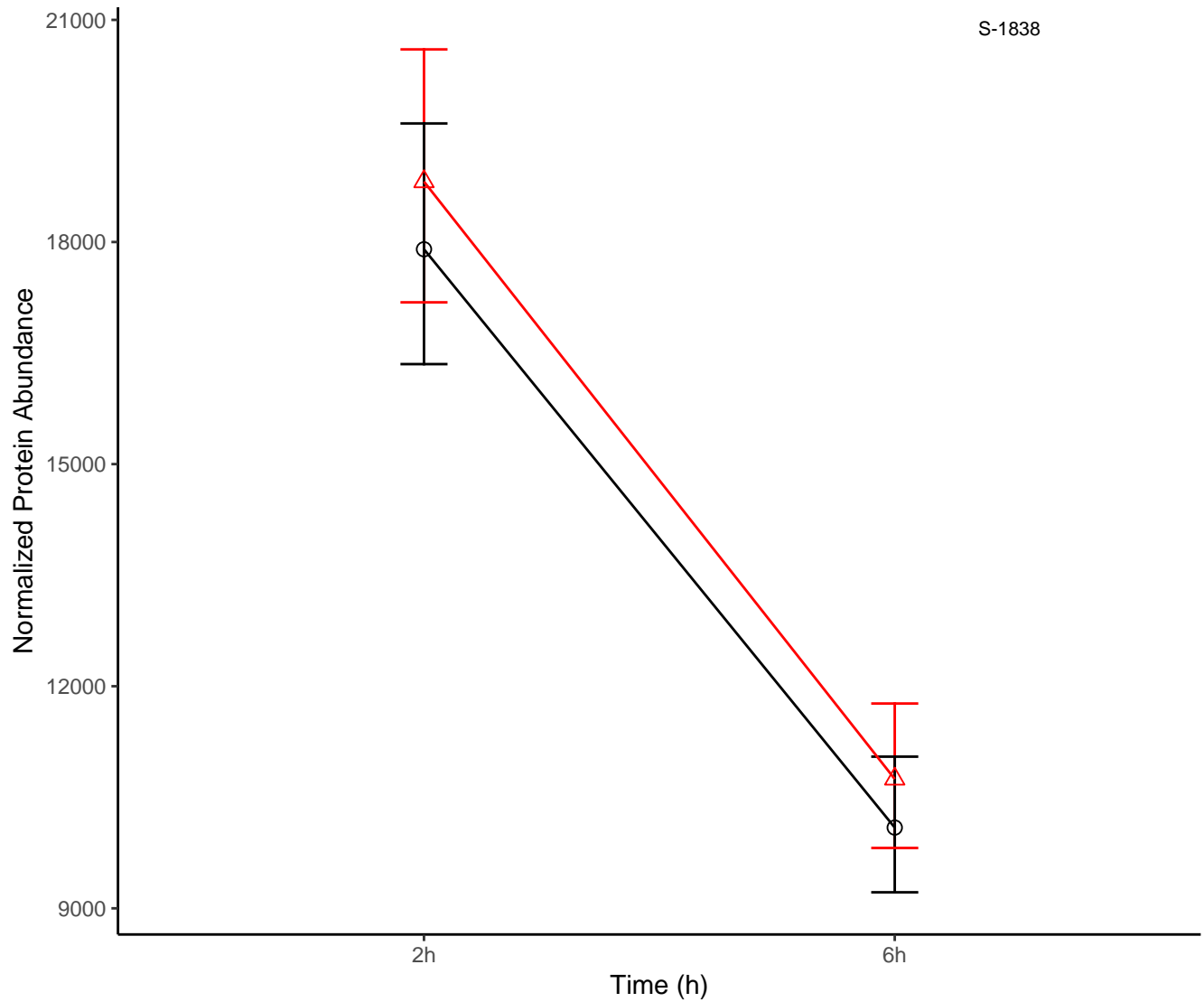


○ TSB-dex

△ TSB

# RL5\_STAAM

S-1838

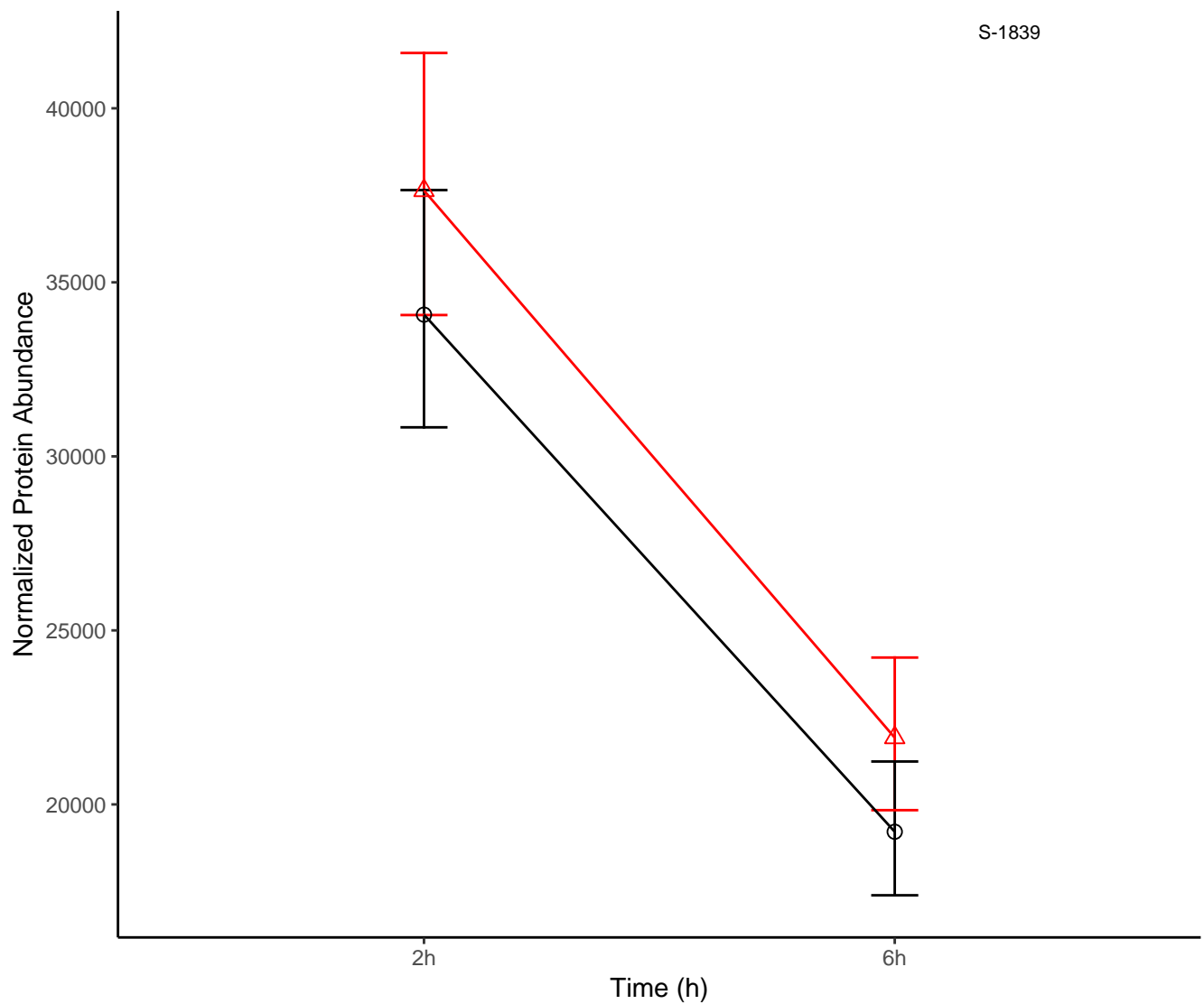


○ TSB-dex

△ TSB

# RL6\_STAAM

S-1839

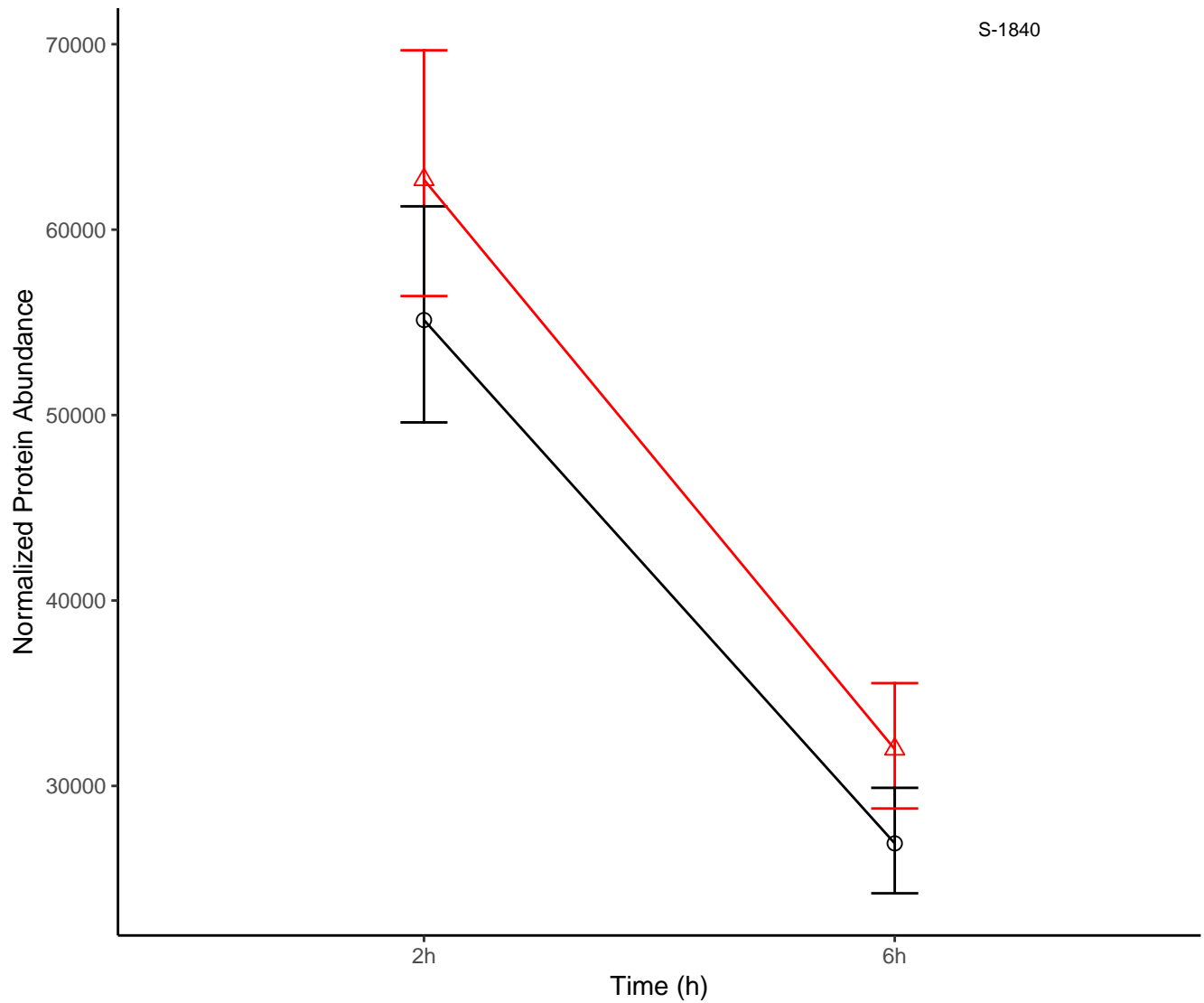


○ TSB-dex

△ TSB

# RL7\_STAAM

S-1840



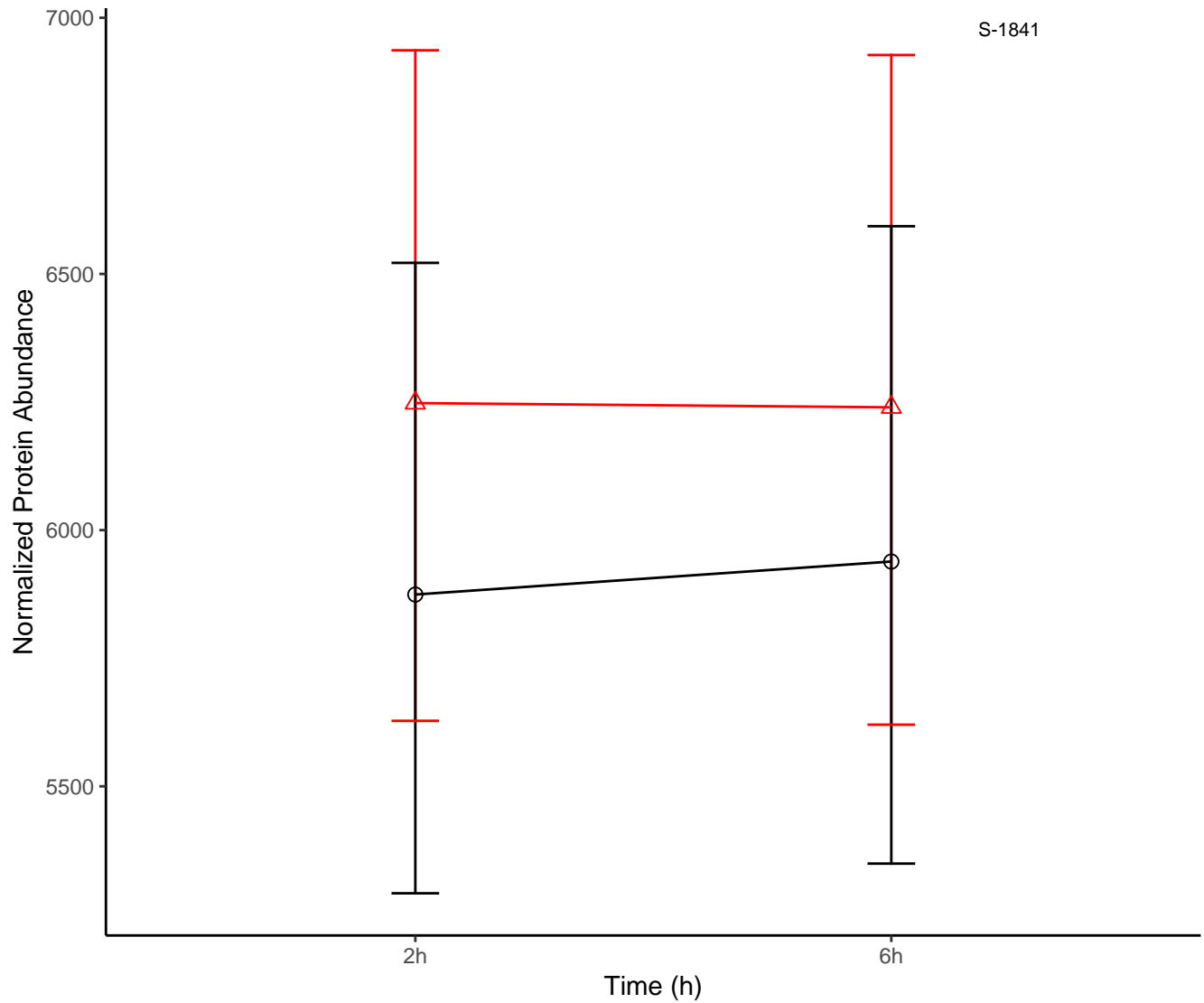
○ TSB-dex

△ TSB



# RL9\_STAAM

S-1841

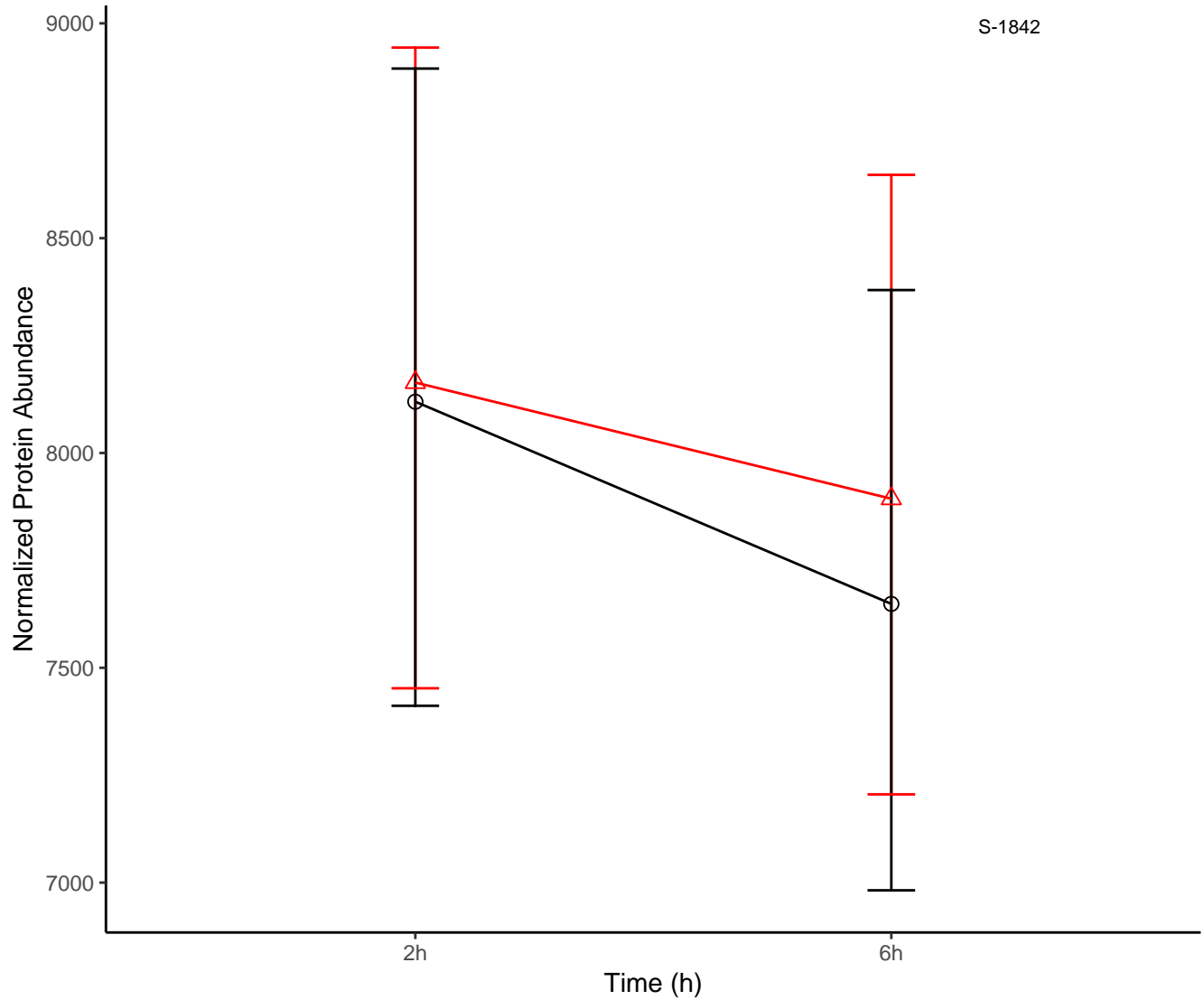


○ TSB-dex

△ TSB

# RNJ1\_STAAM

S-1842

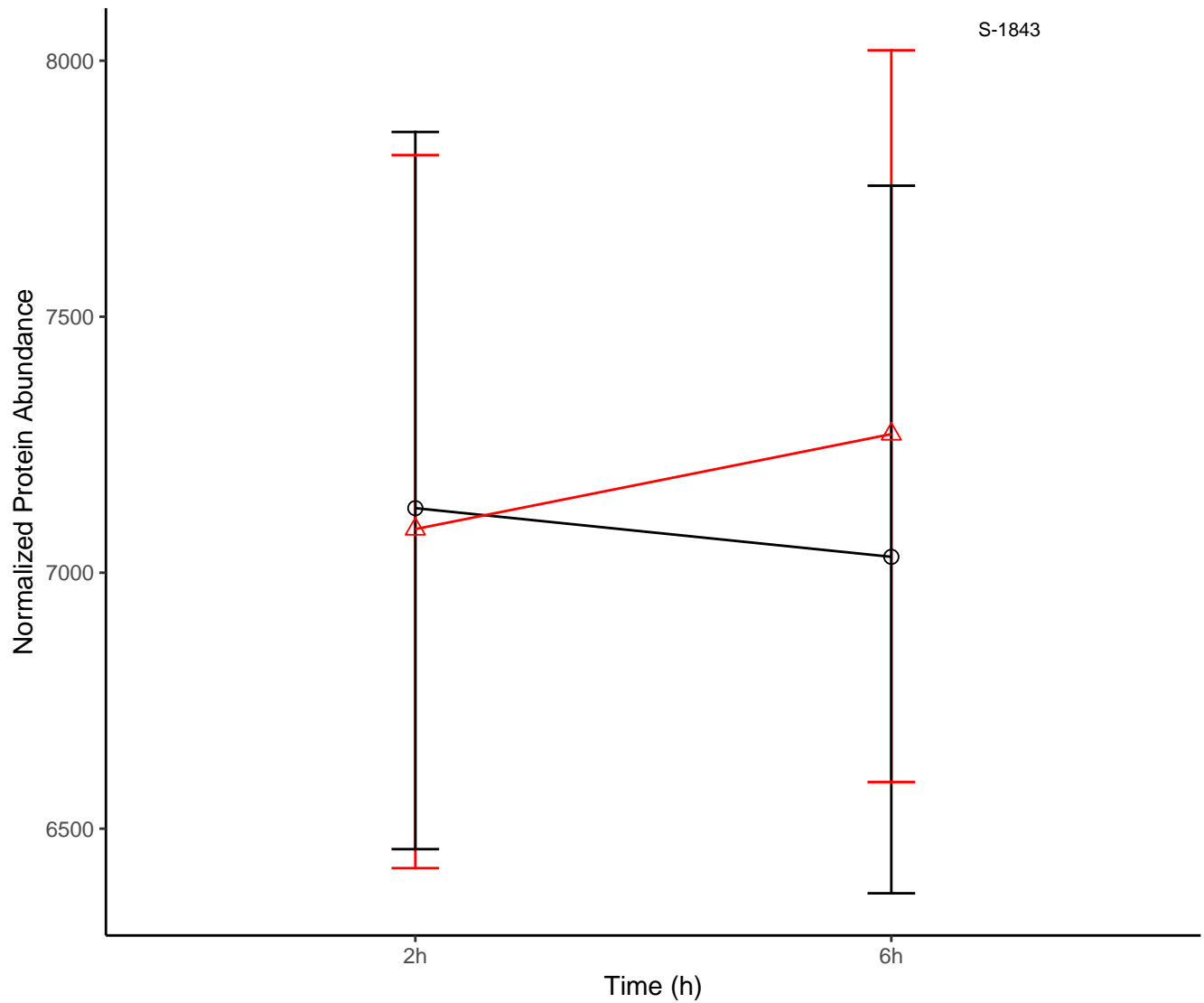


○ TSB-dex

△ TSB

# RNJ2\_STAAM

S-1843

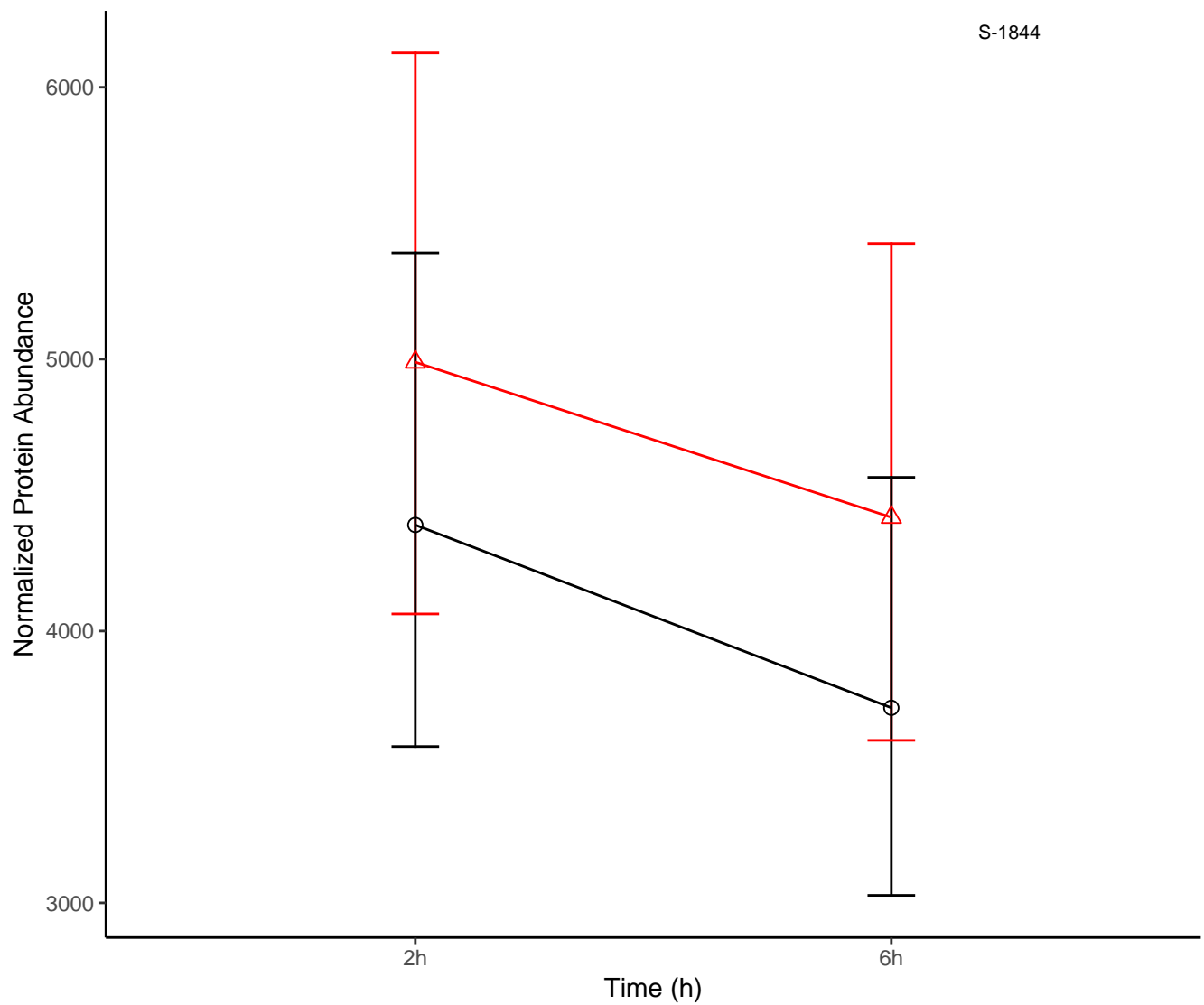


○ TSB-dex

△ TSB

# RNY\_STAAM

S-1844

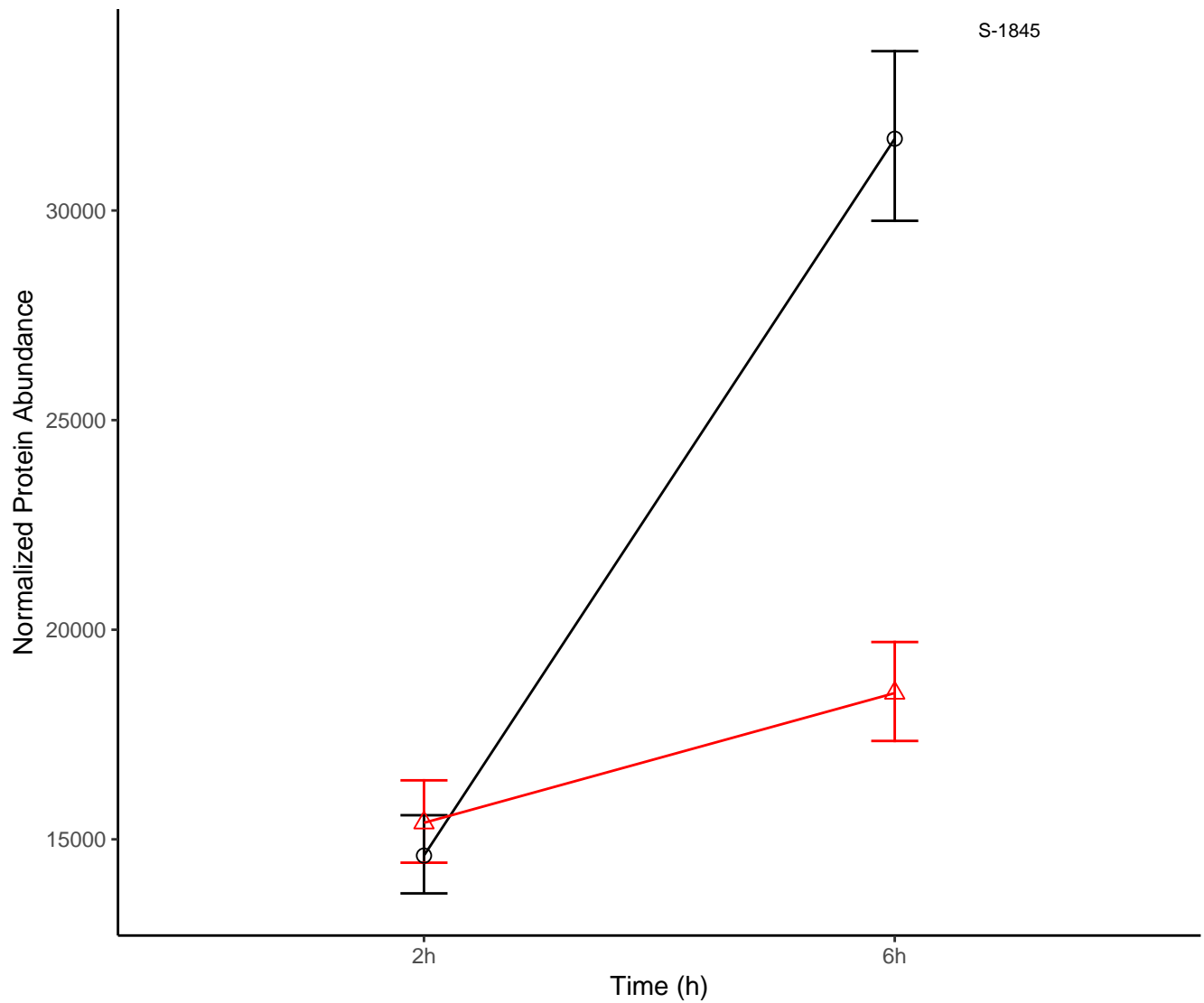


○ TSB-dex

△ TSB

# ROCA\_STAAM

S-1845

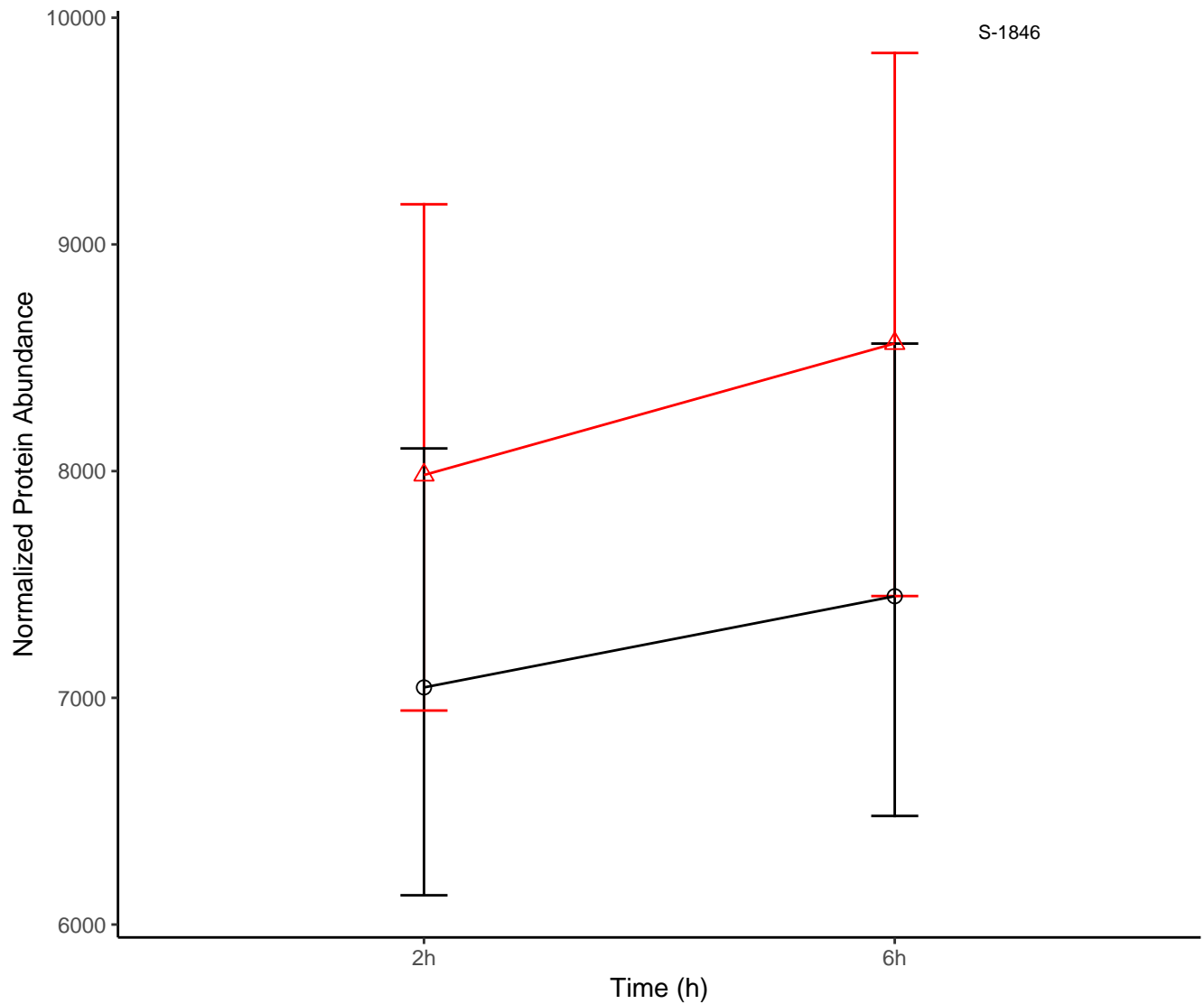


○ TSB-dex

△ TSB

# ROT\_STAAM

S-1846

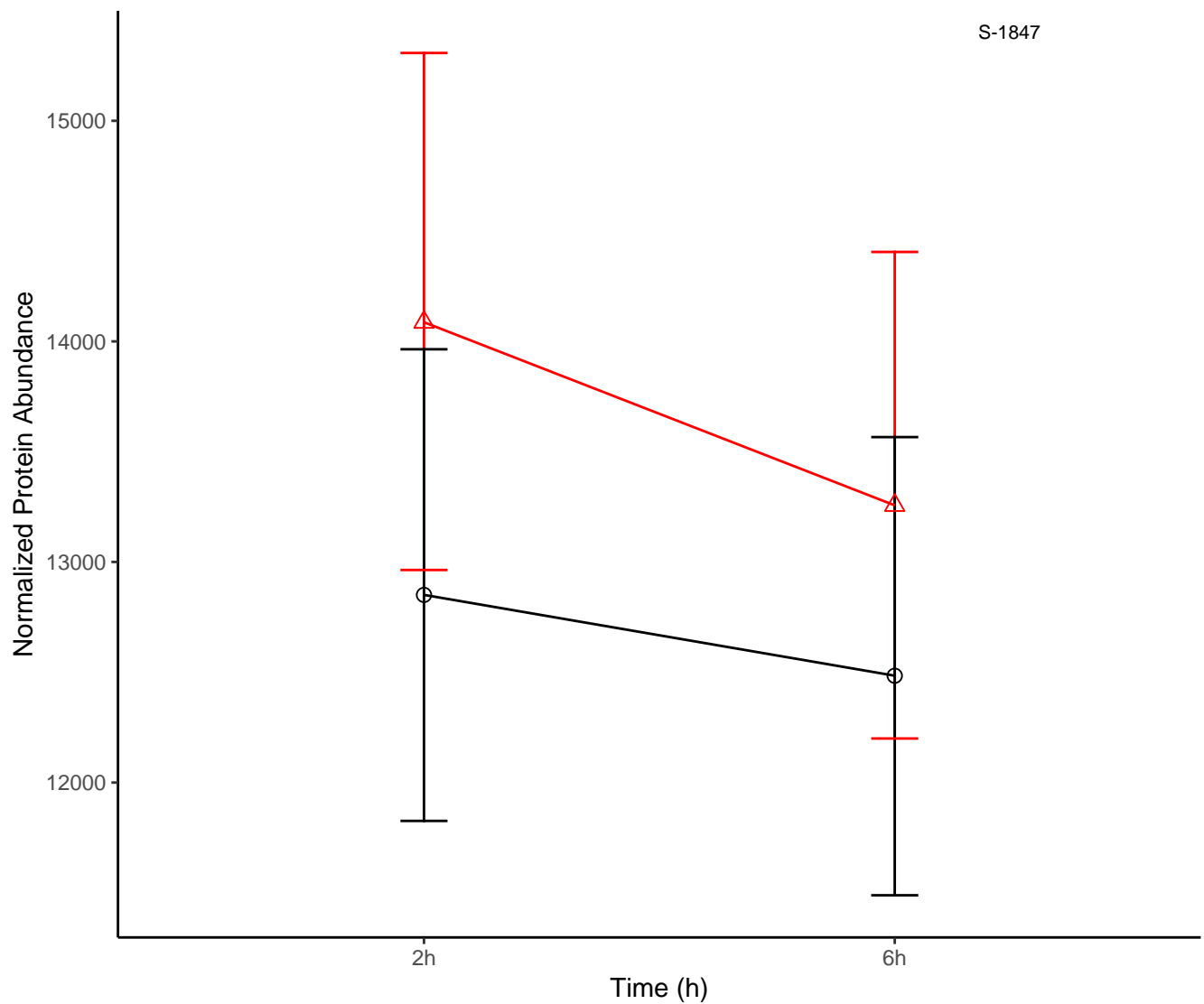


○ TSB-dex

△ TSB

# RPOA\_STAAM

S-1847

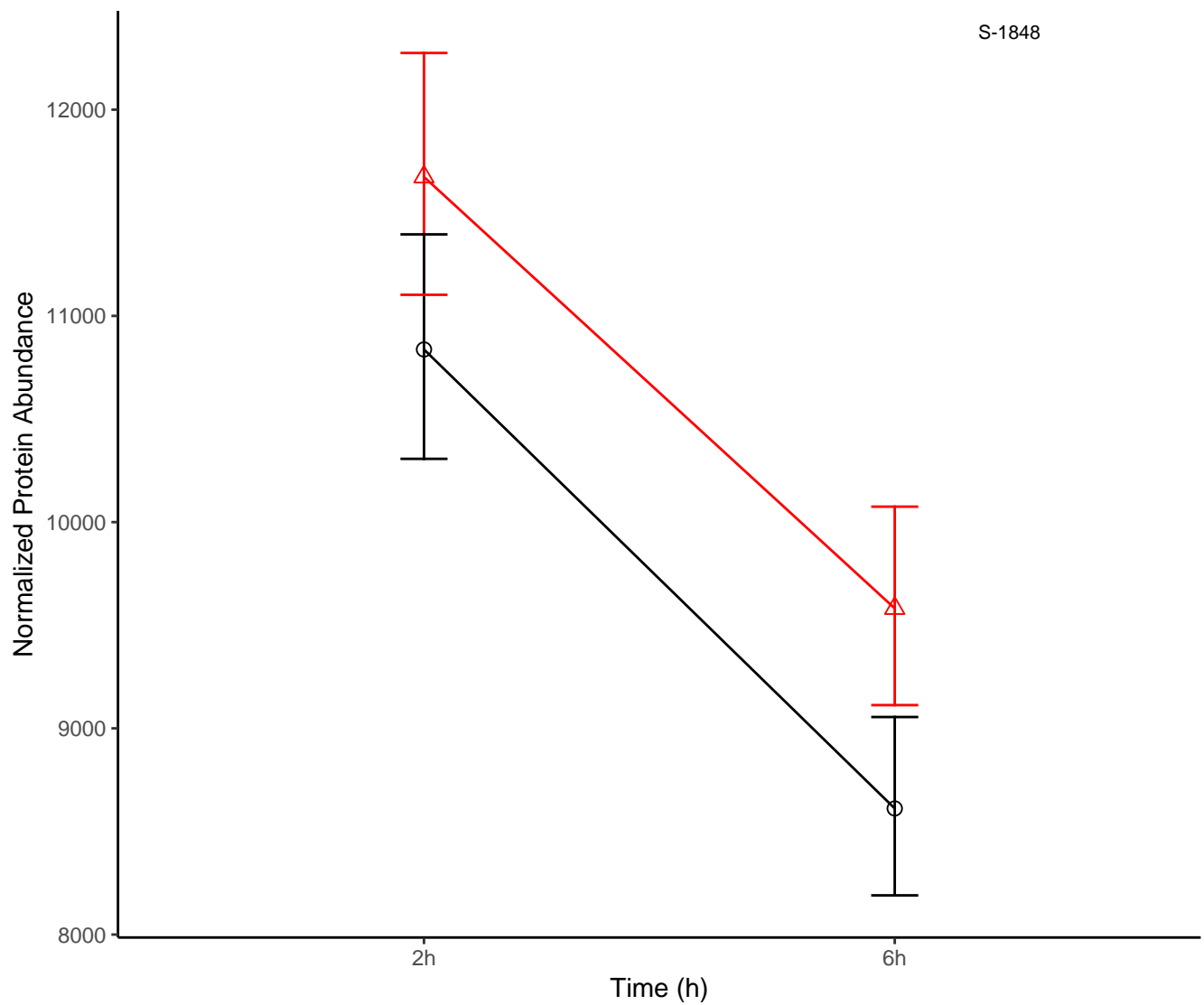


○ TSB-dex

△ TSB

# RPOB\_STAAM

S-1848



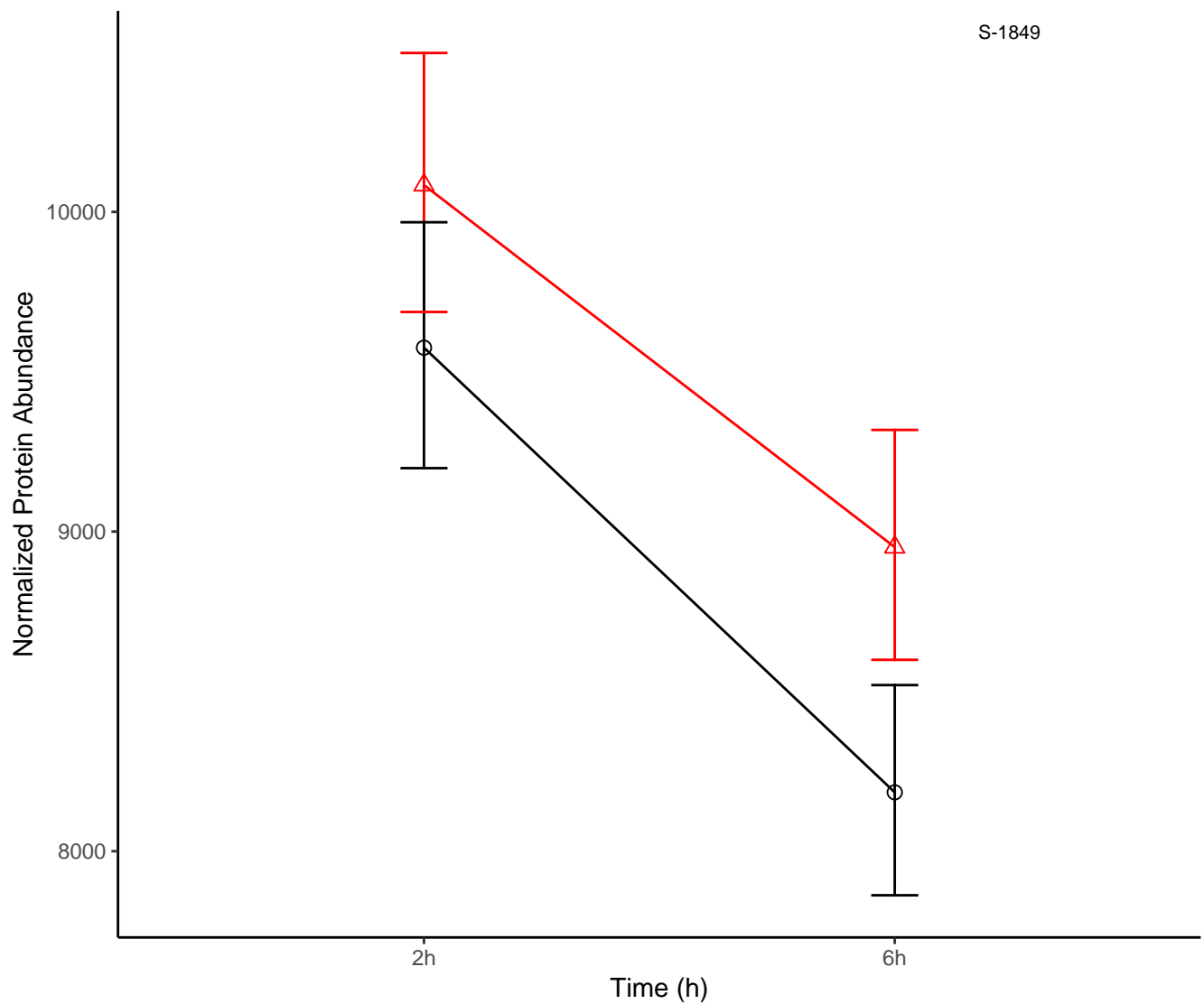
○ TSB-dex

△ TSB



# RPOC\_STAAM

S-1849

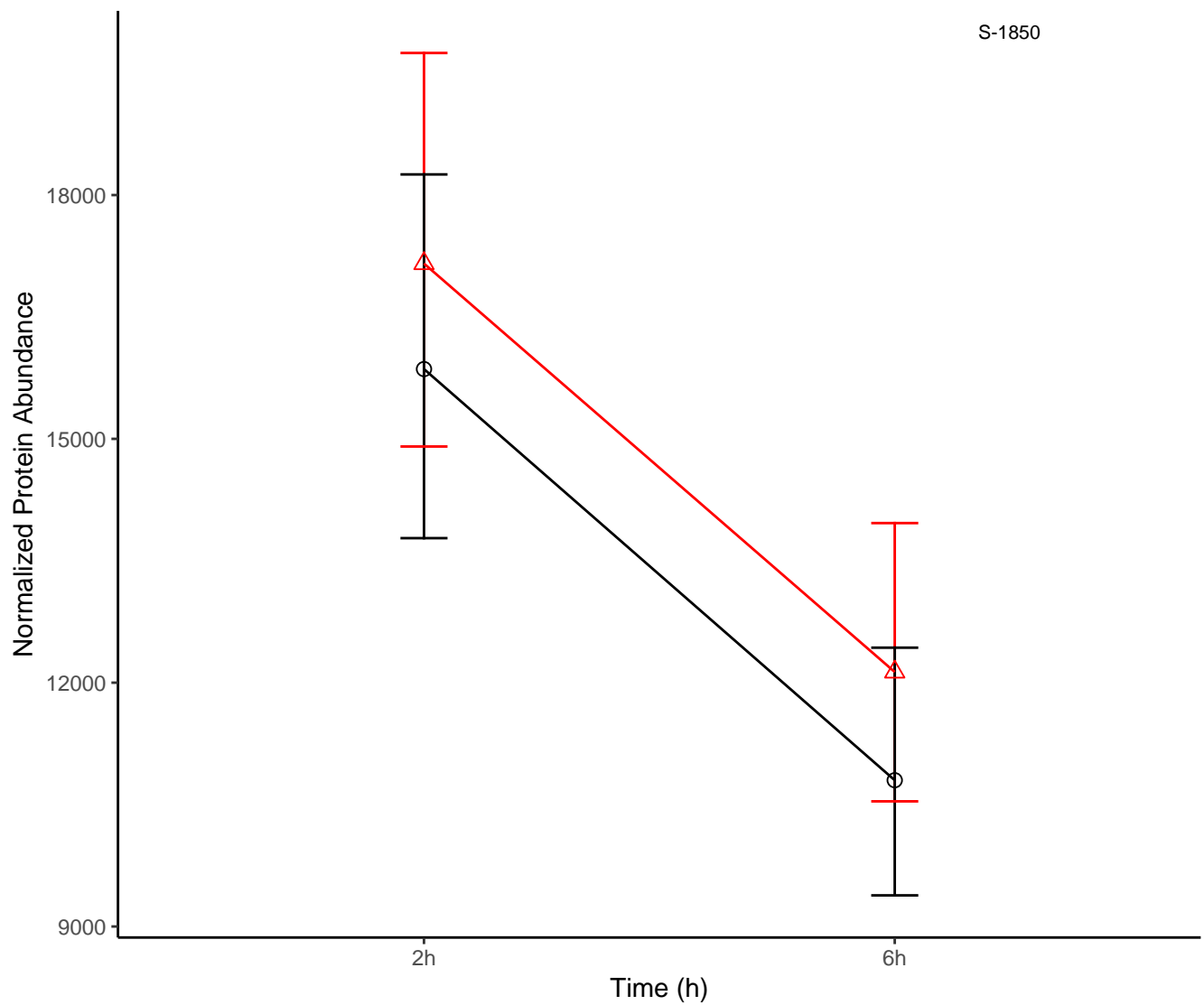


○ TSB-dex

△ TSB

# RPOE\_STAAM

S-1850

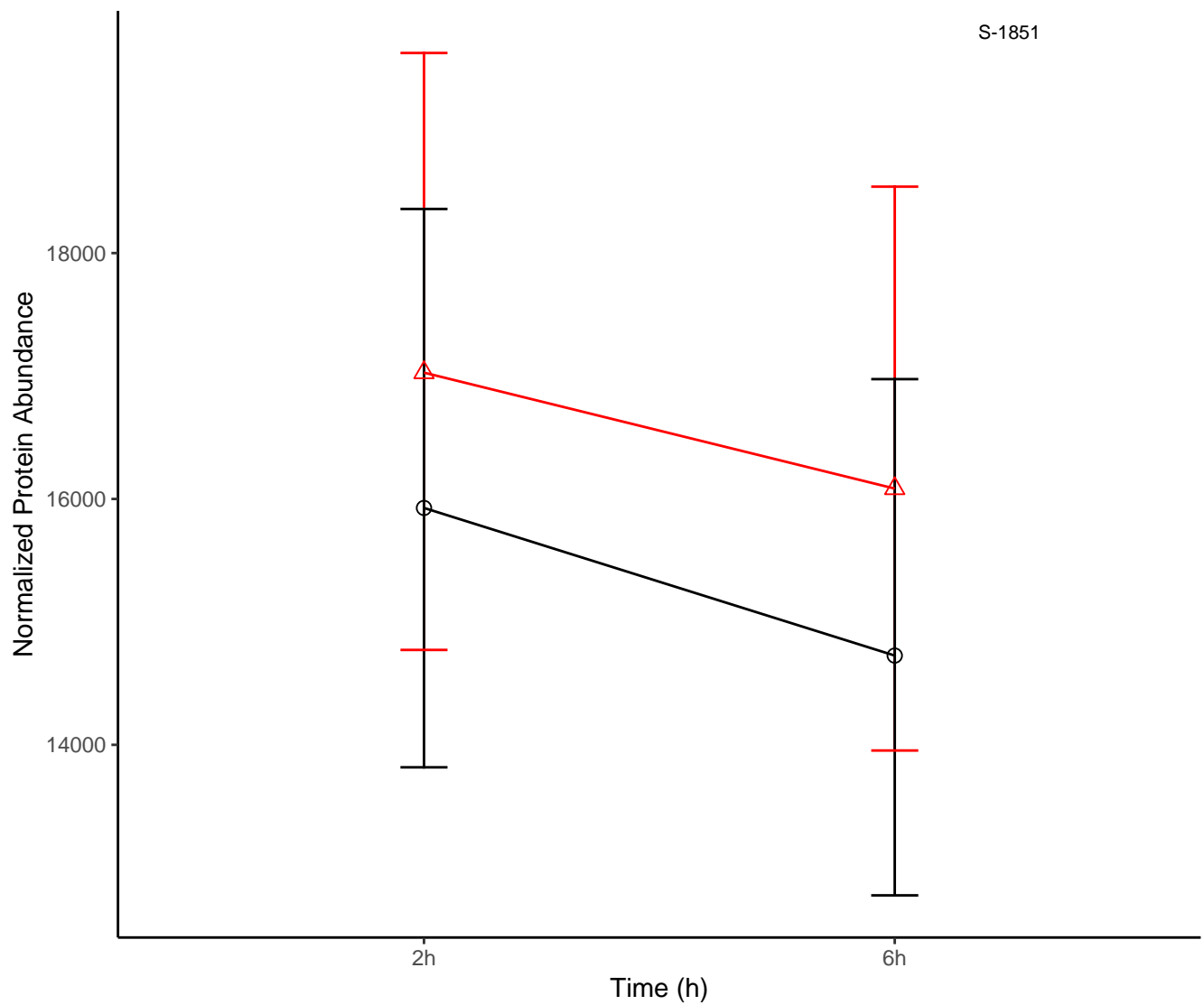


○ TSB-dex

△ TSB

# RPOZ\_STAAM

S-1851

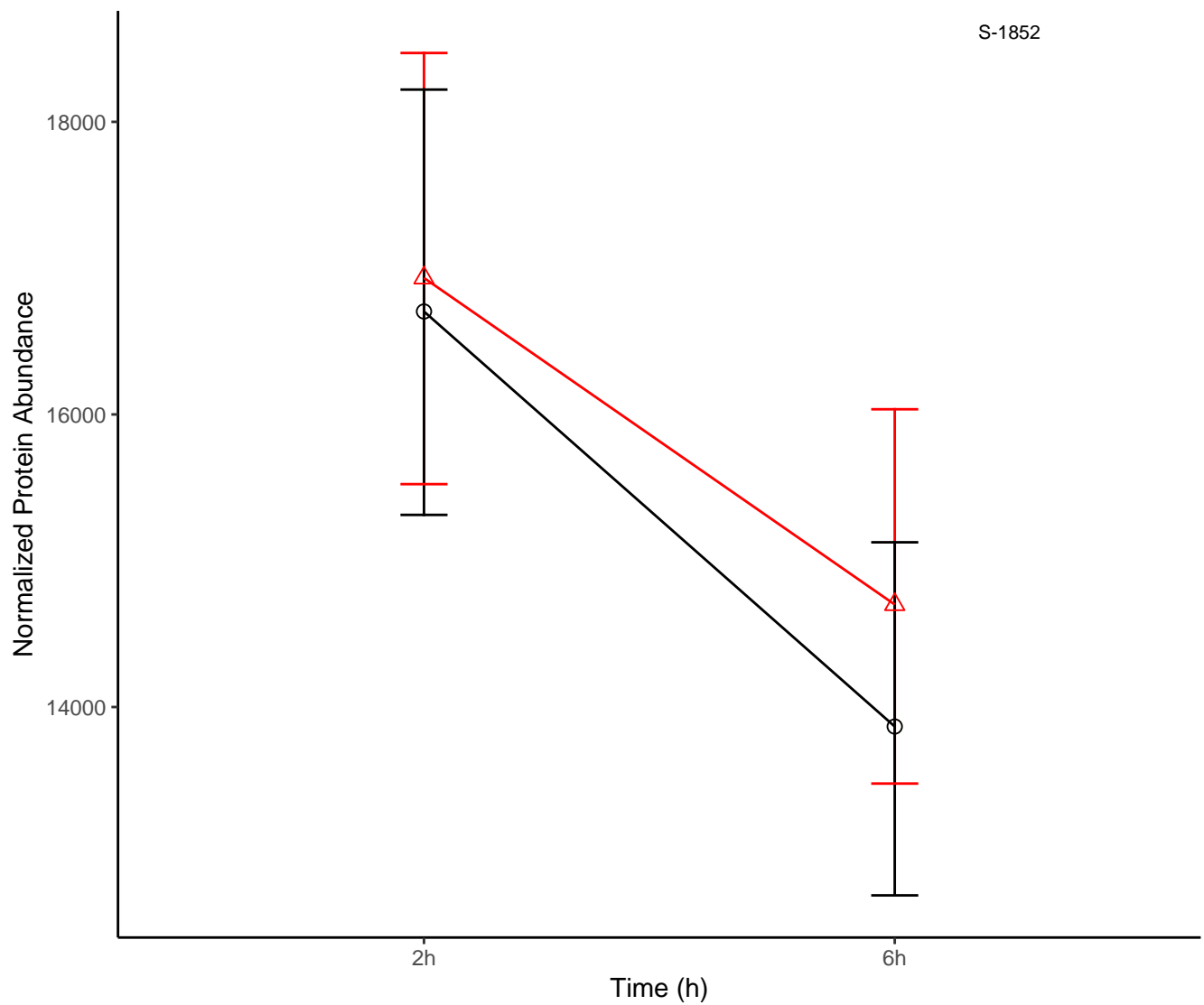


○ TSB-dex

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# RRF\_STAAM

S-1852

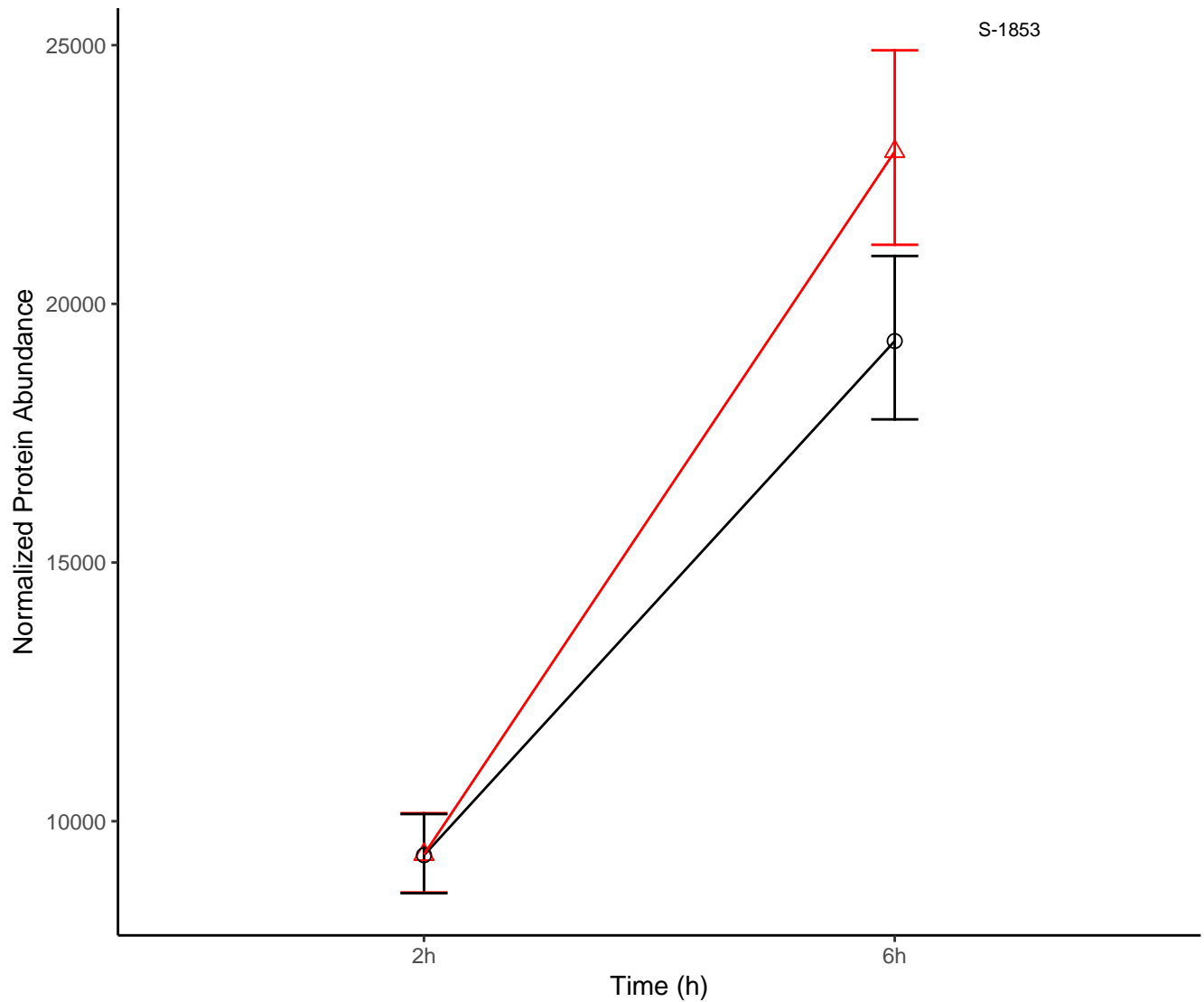


○ TSB-dex

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# RS1\_STAAM

S-1853

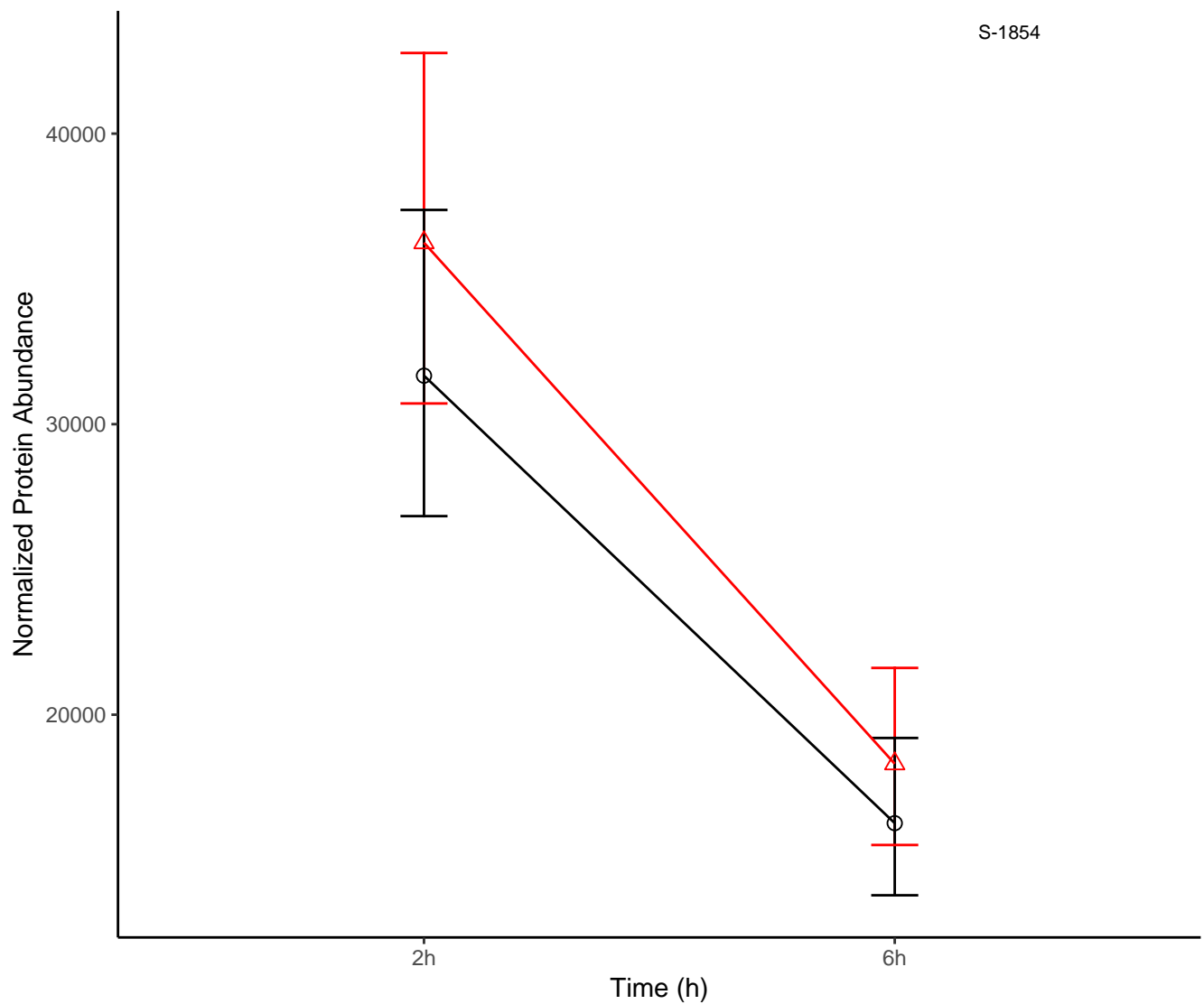


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# RS10\_STAAM

S-1854

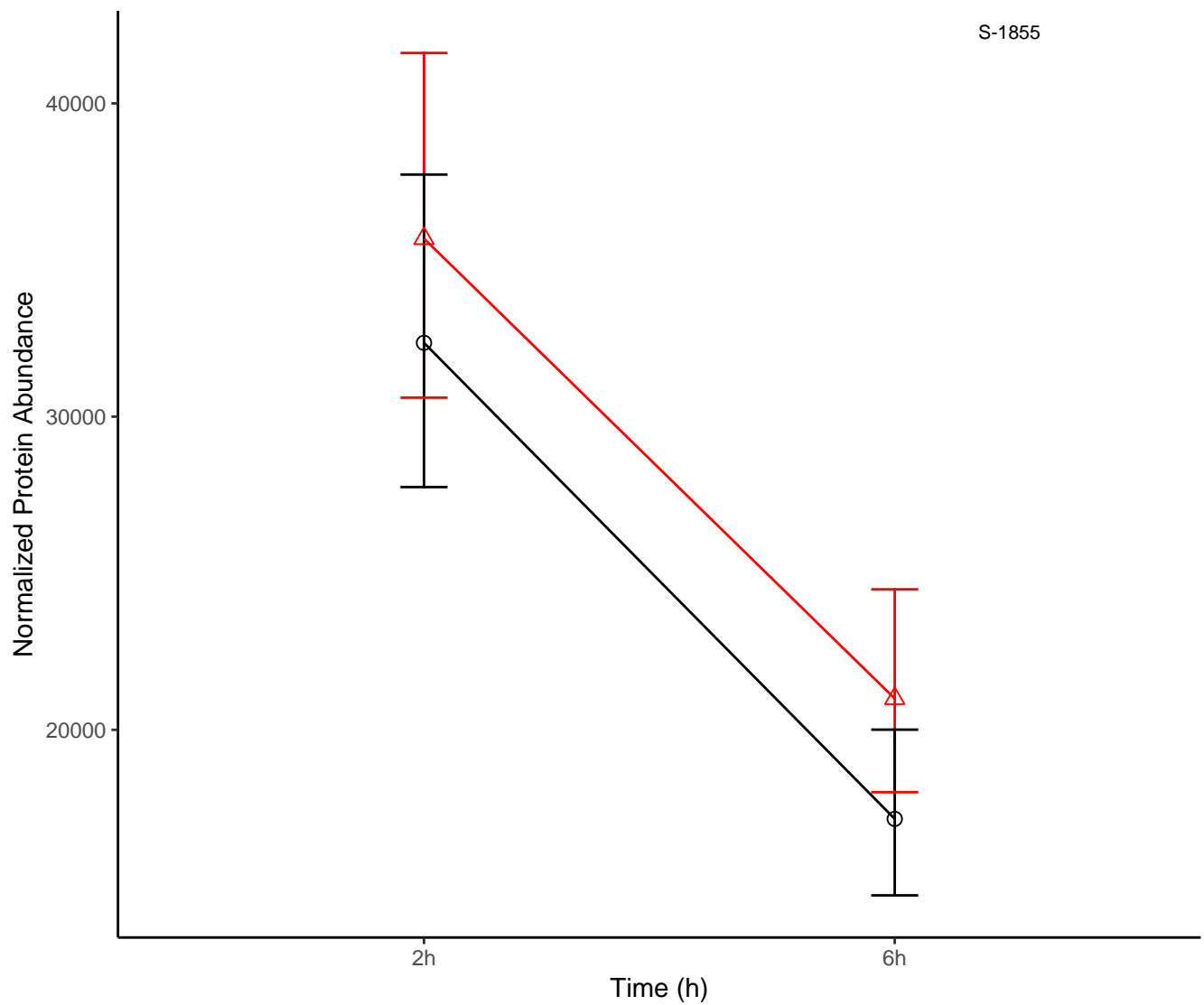


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# RS11\_STAAM

S-1855

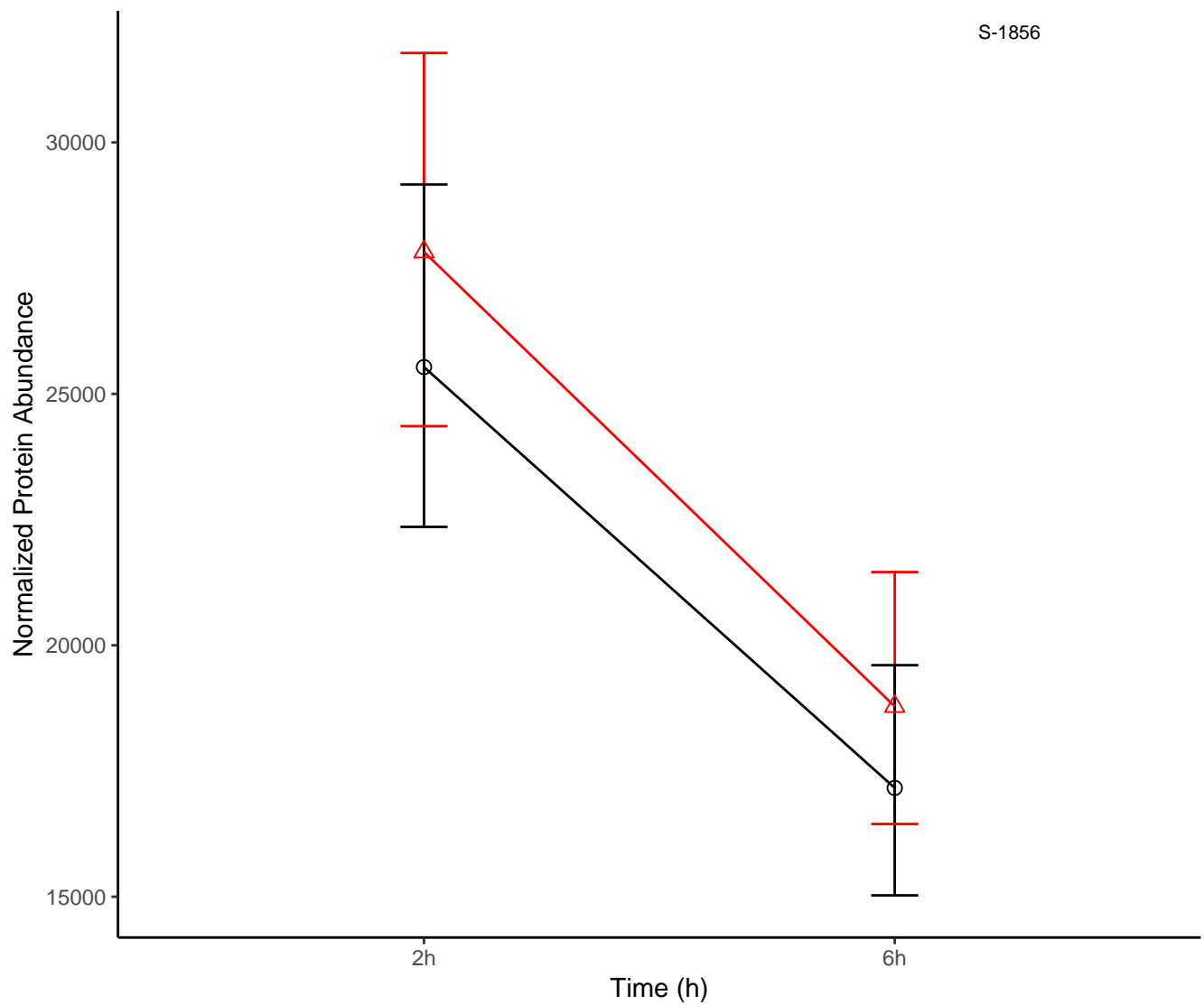


○ TSB-dex

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# RS12\_STAAM

S-1856



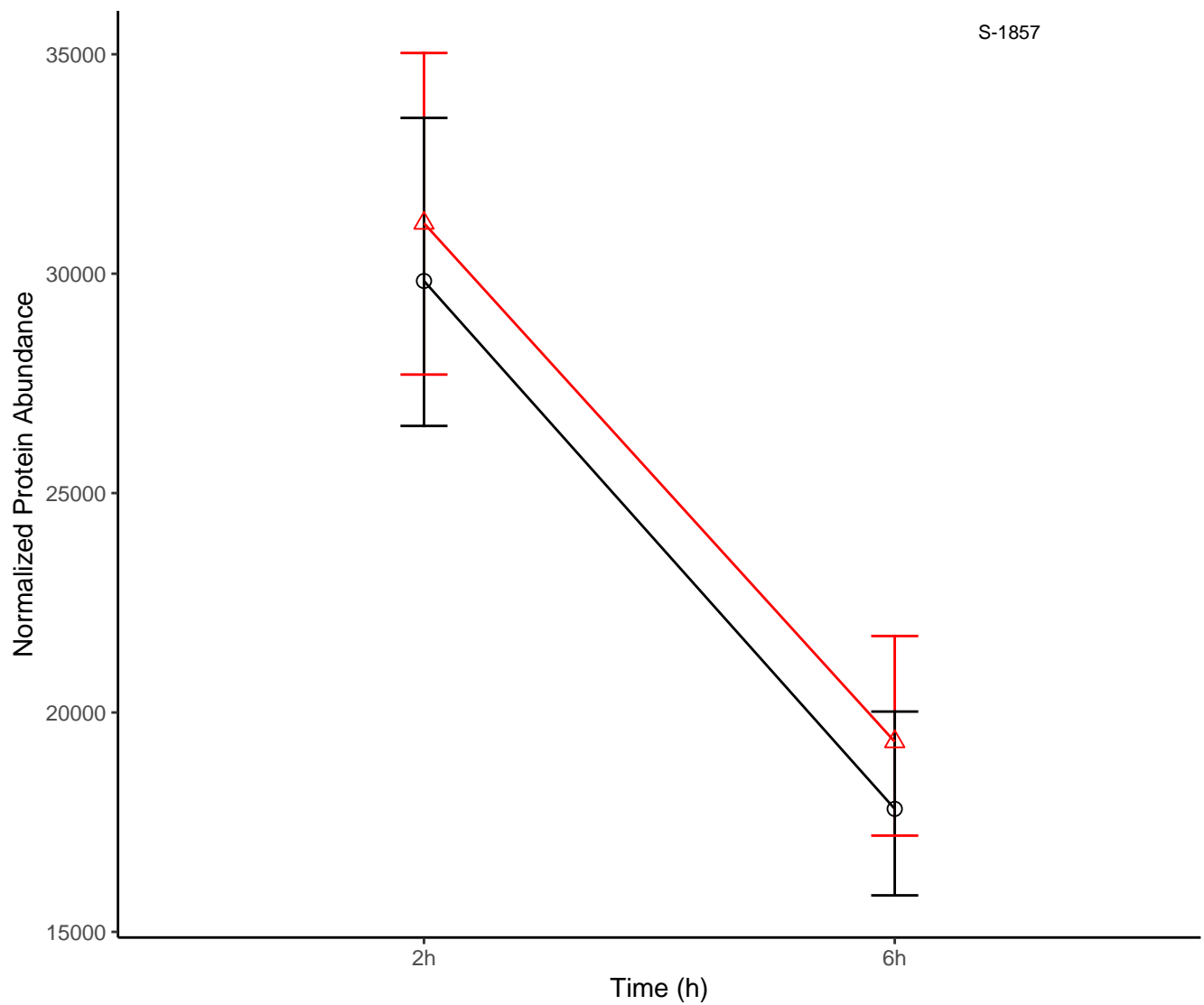
○ TSB-dex

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# RS13\_STAAM

S-1857

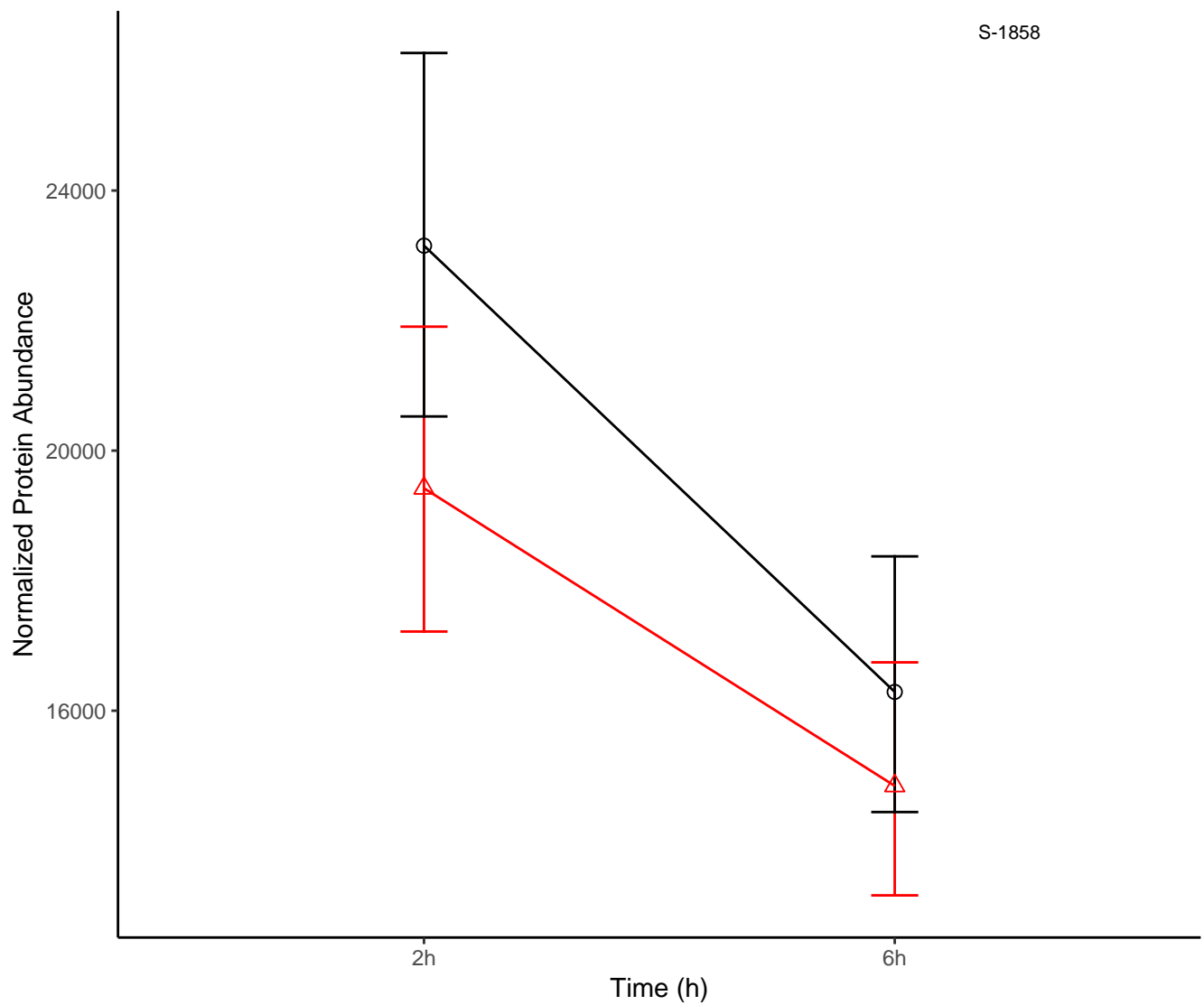


○ TSB-dex

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# RS15\_STAAM

S-1858

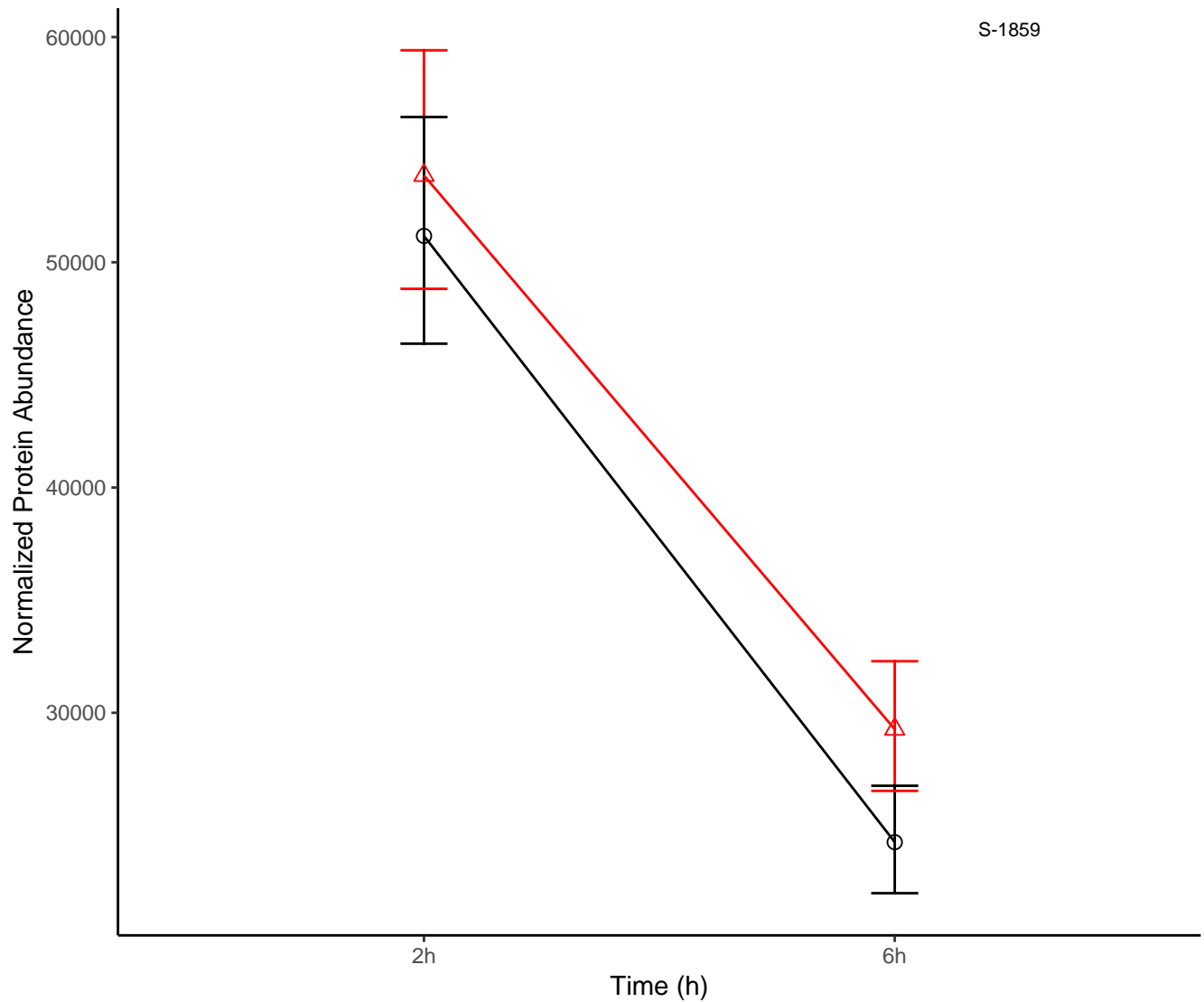


○ TSB-dex

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# RS16\_STAAM

S-1859

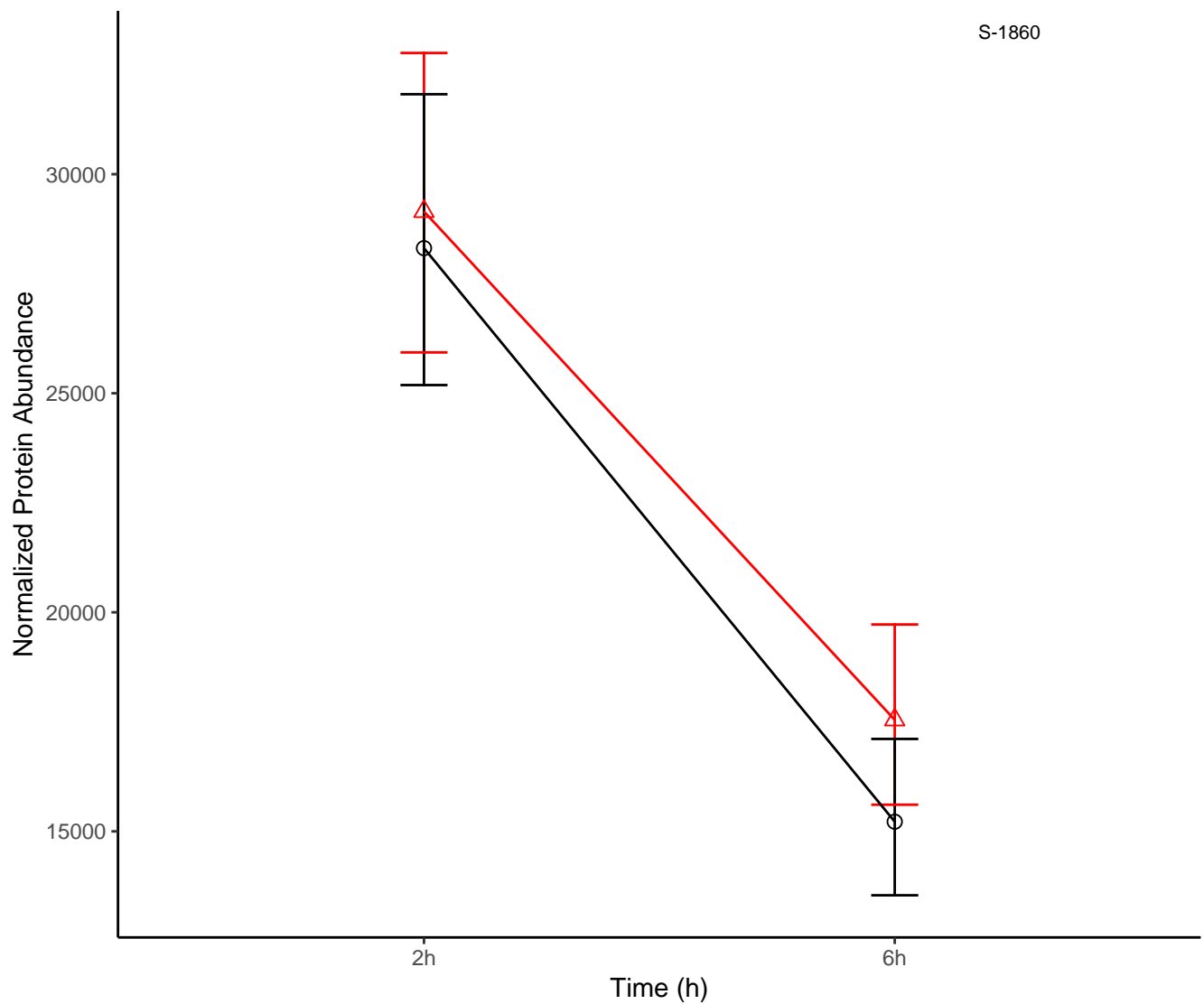


○ TSB-dex

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# RS17\_STAAM

S-1860

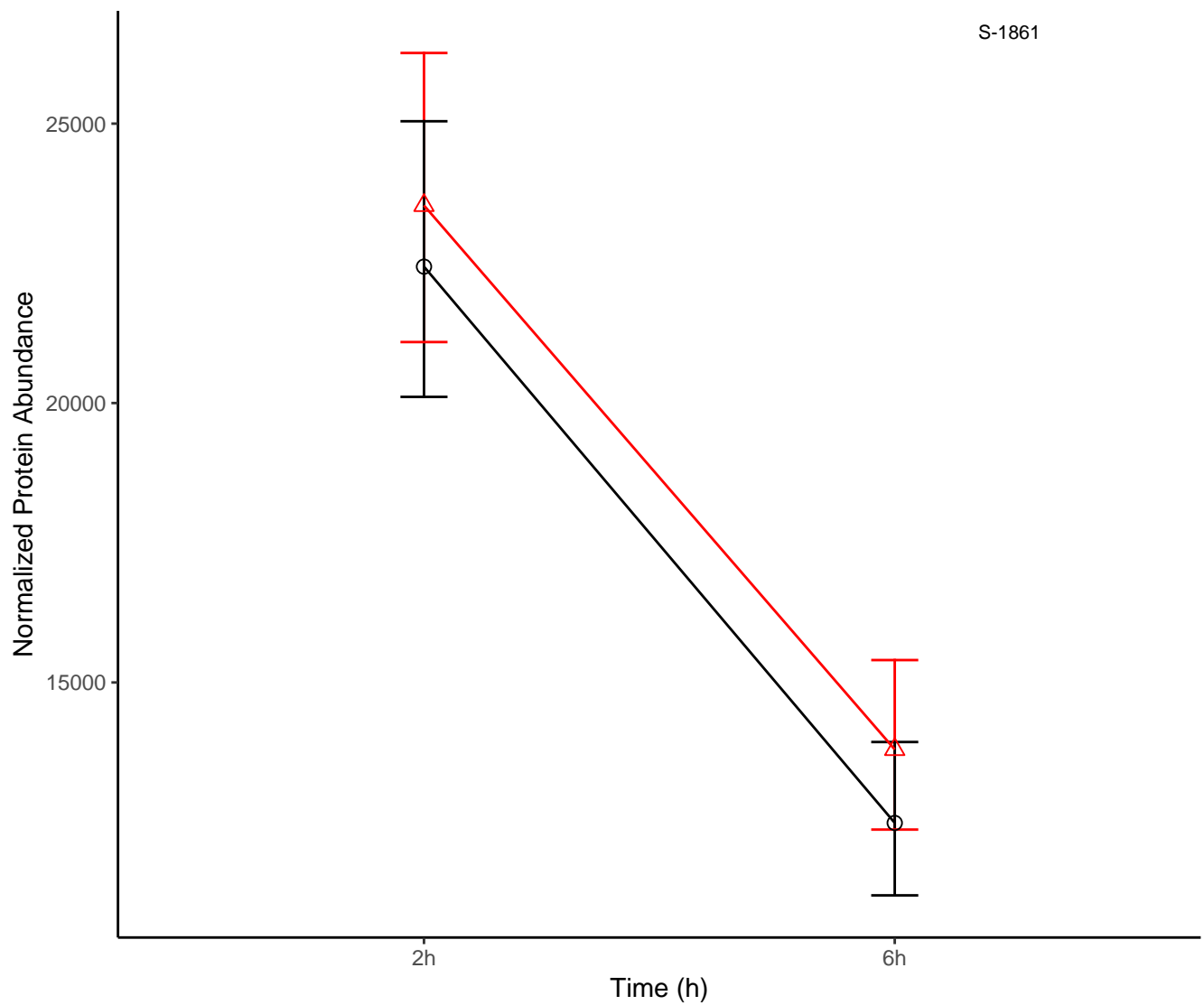


○ TSB-dex

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# RS18\_STAAM

S-1861

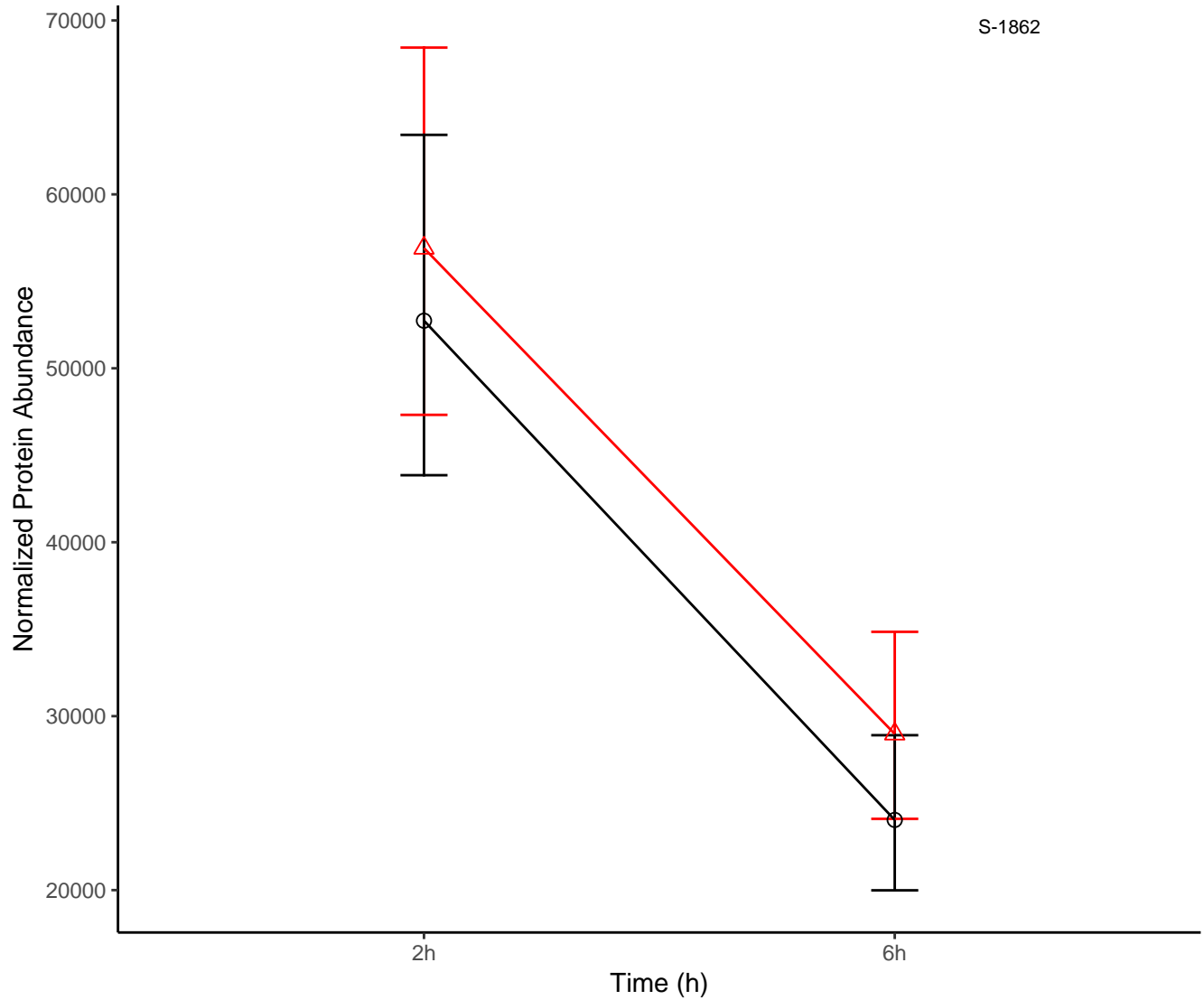


○ TSB-dex

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# RS19\_STAAM

S-1862

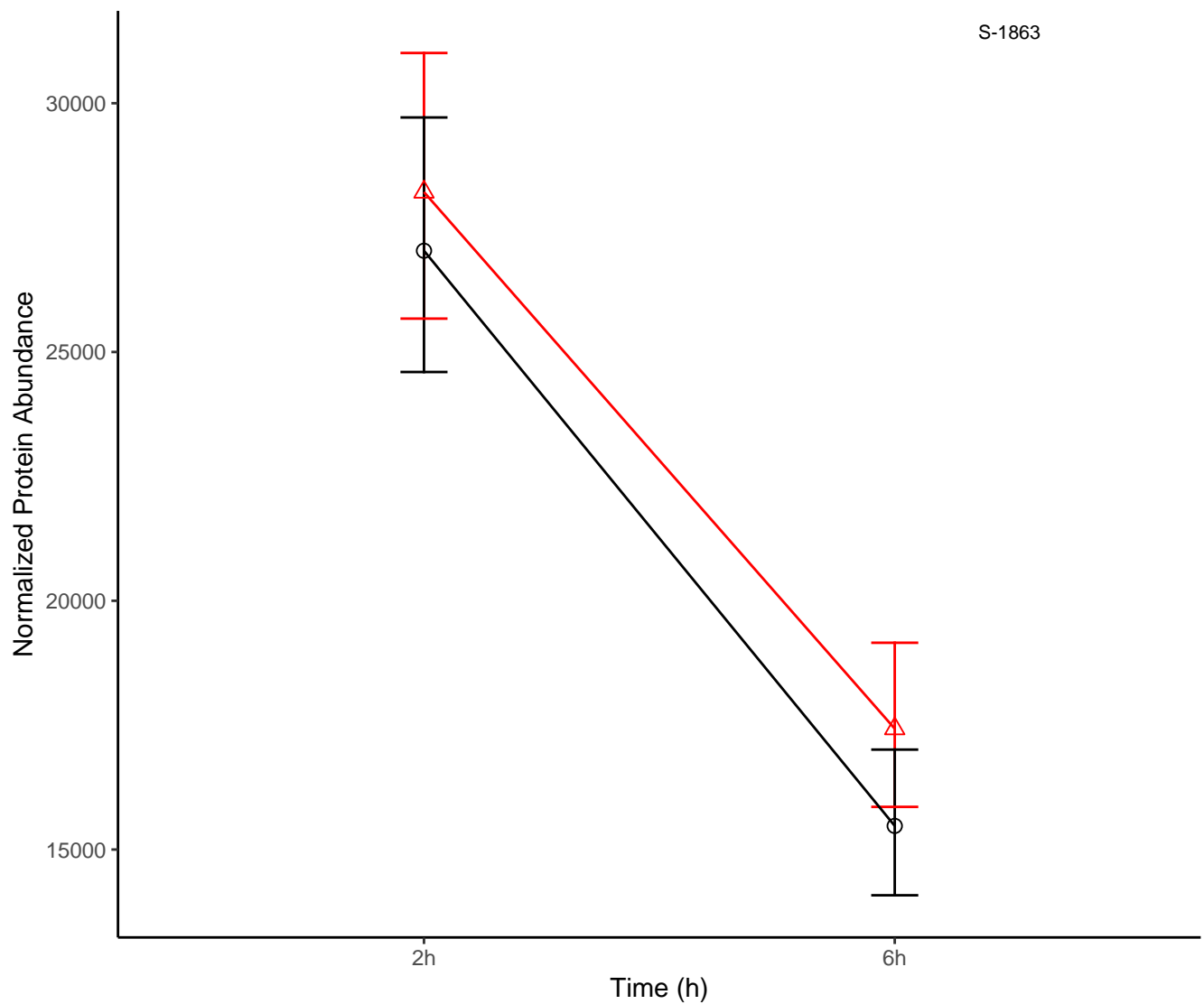


○ TSB-dex

△ TSB

# RS2\_STAAM

S-1863

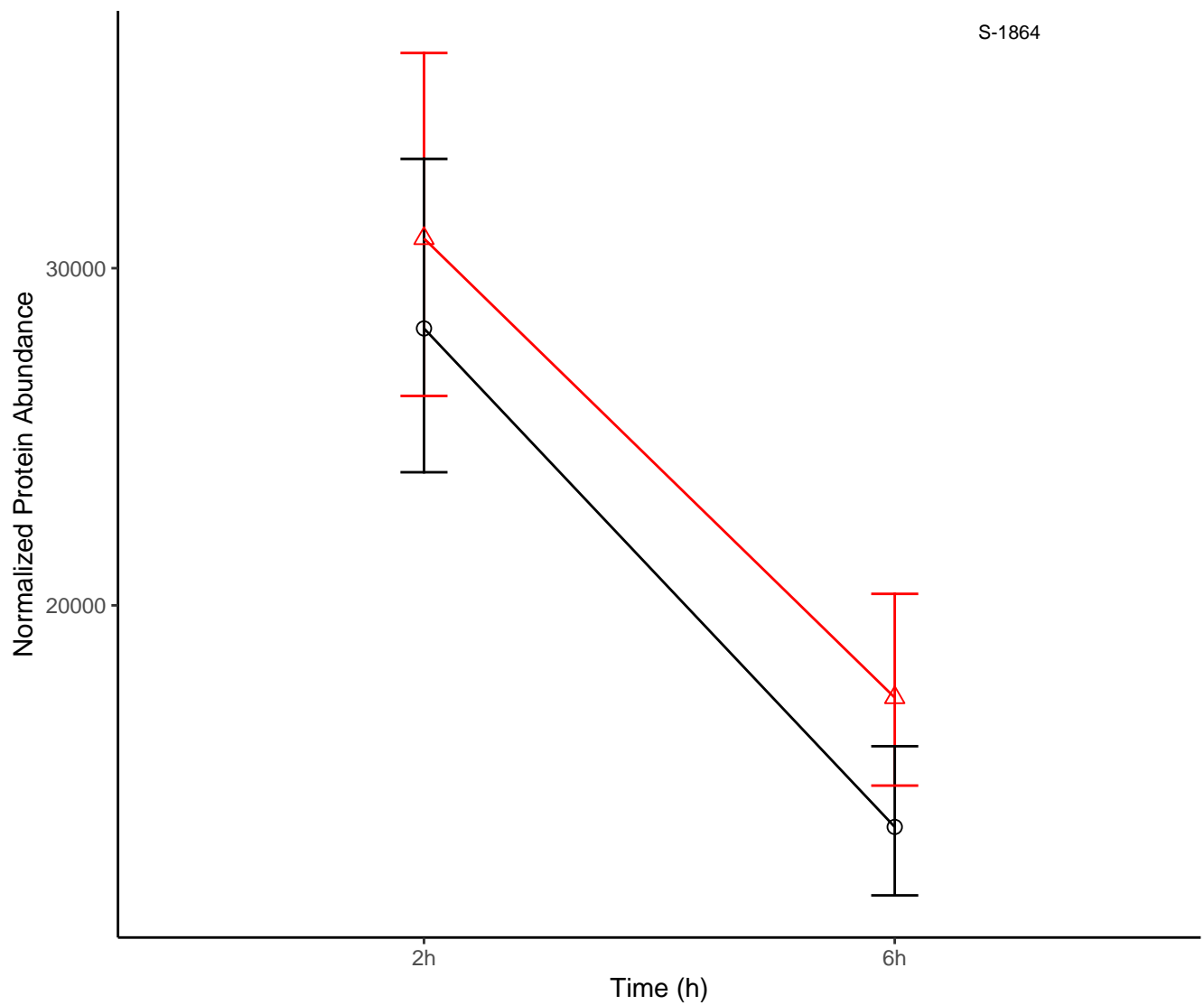


○ TSB-dex

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# RS20\_STAAM

S-1864



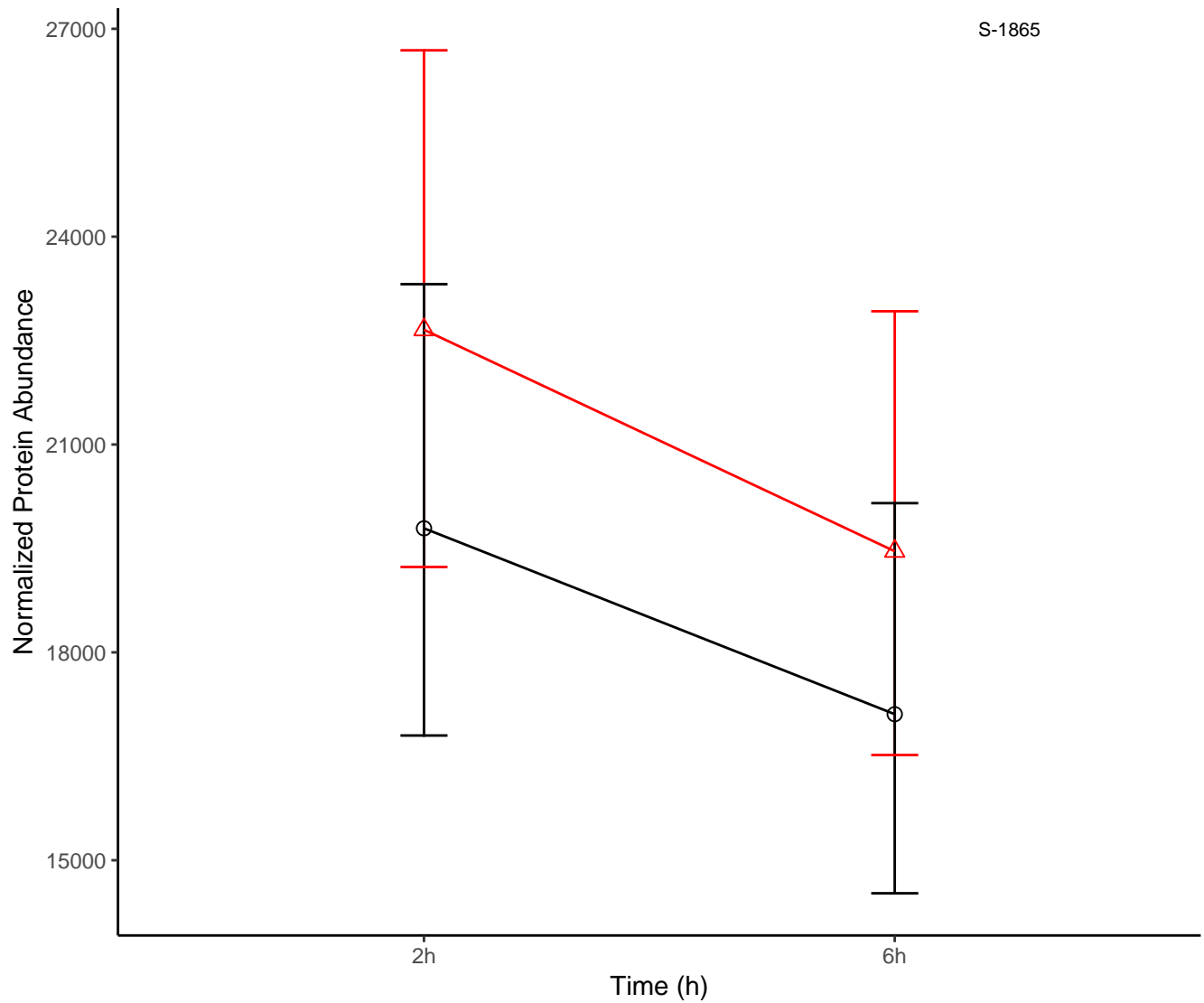
○ TSB-dex

△ TSB



# RS21\_STAAM

S-1865

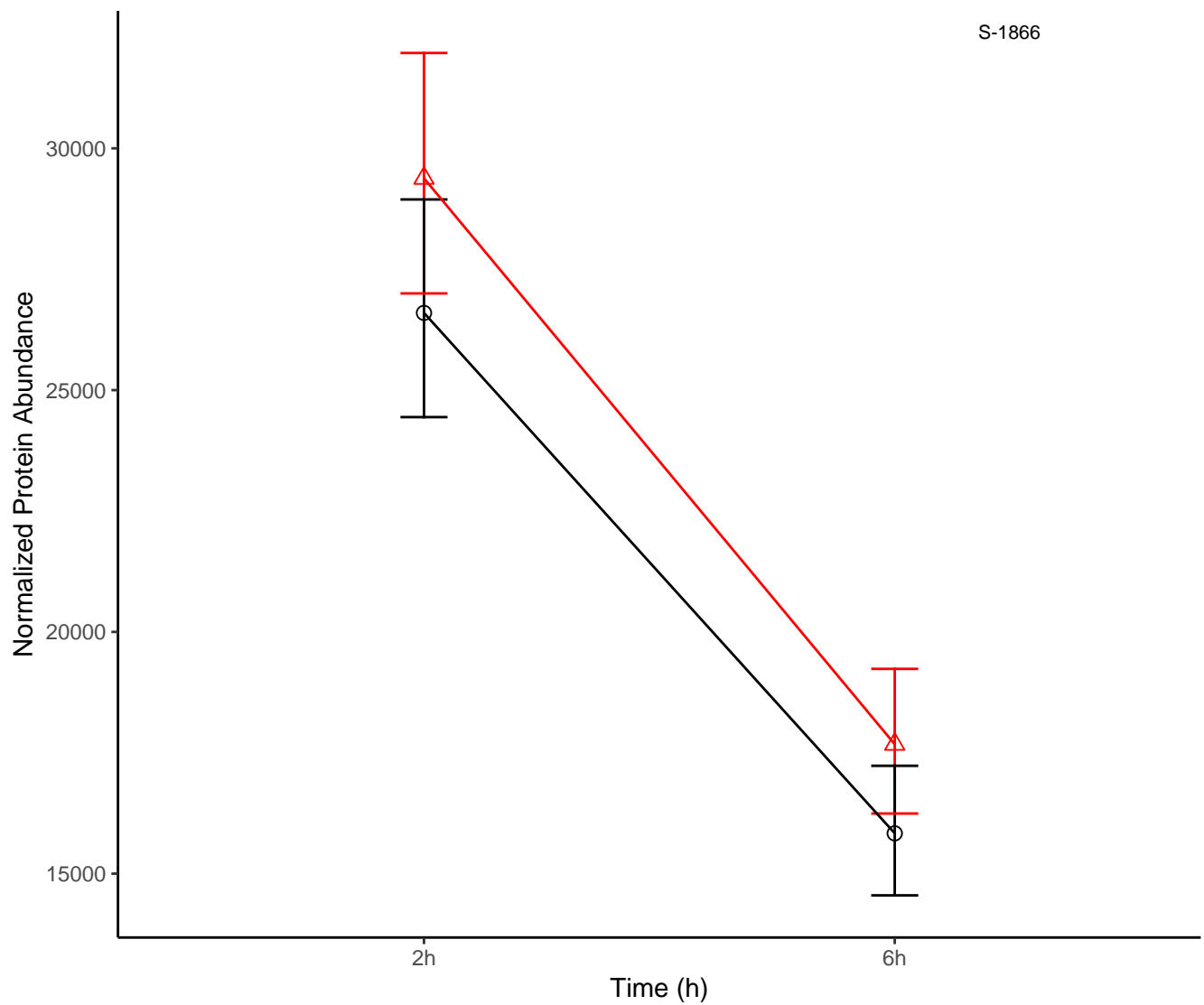


○ TSB-dex

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# RS3\_STAAM

S-1866

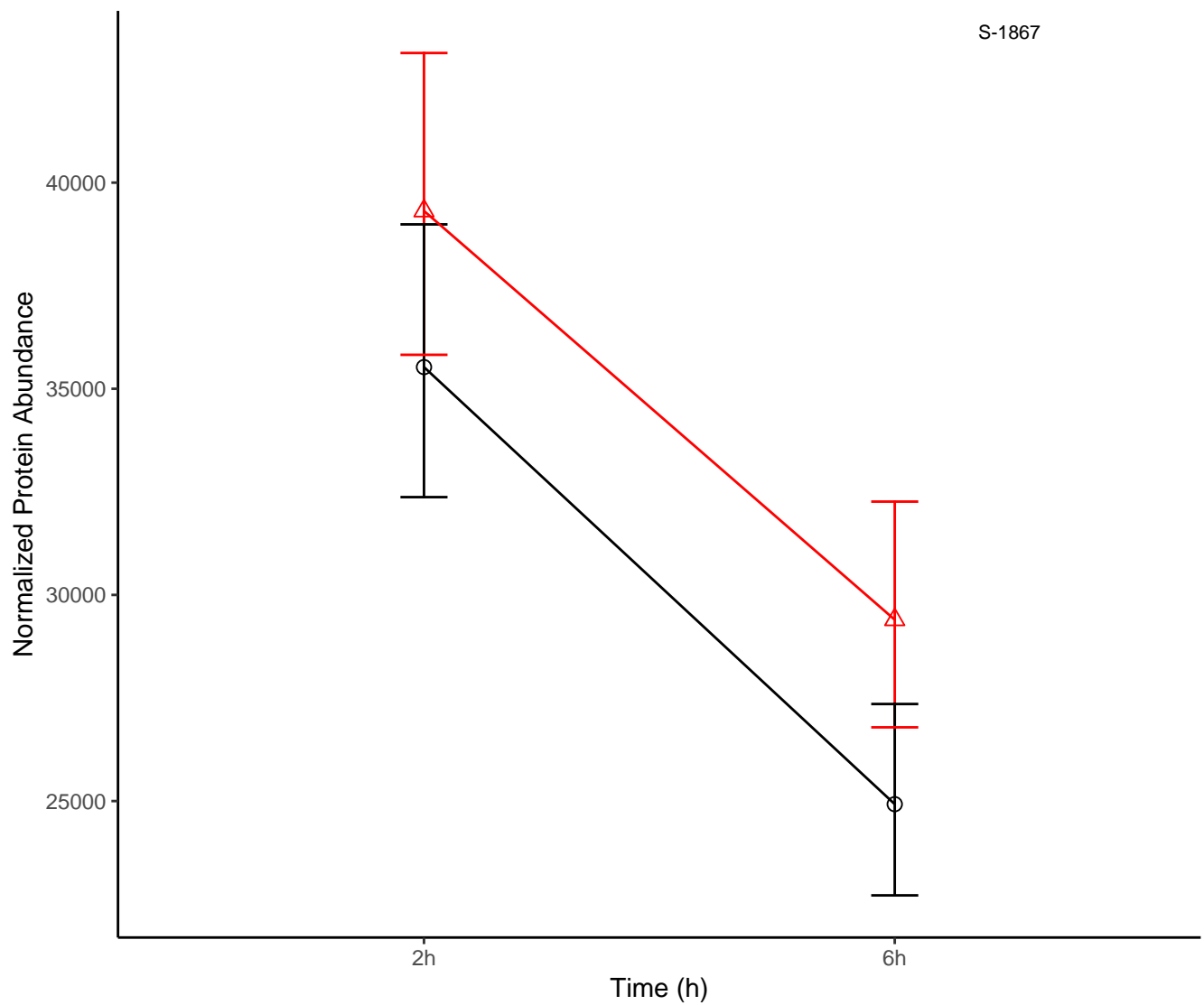


○ TSB-dex

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# RS4\_STAAM

S-1867

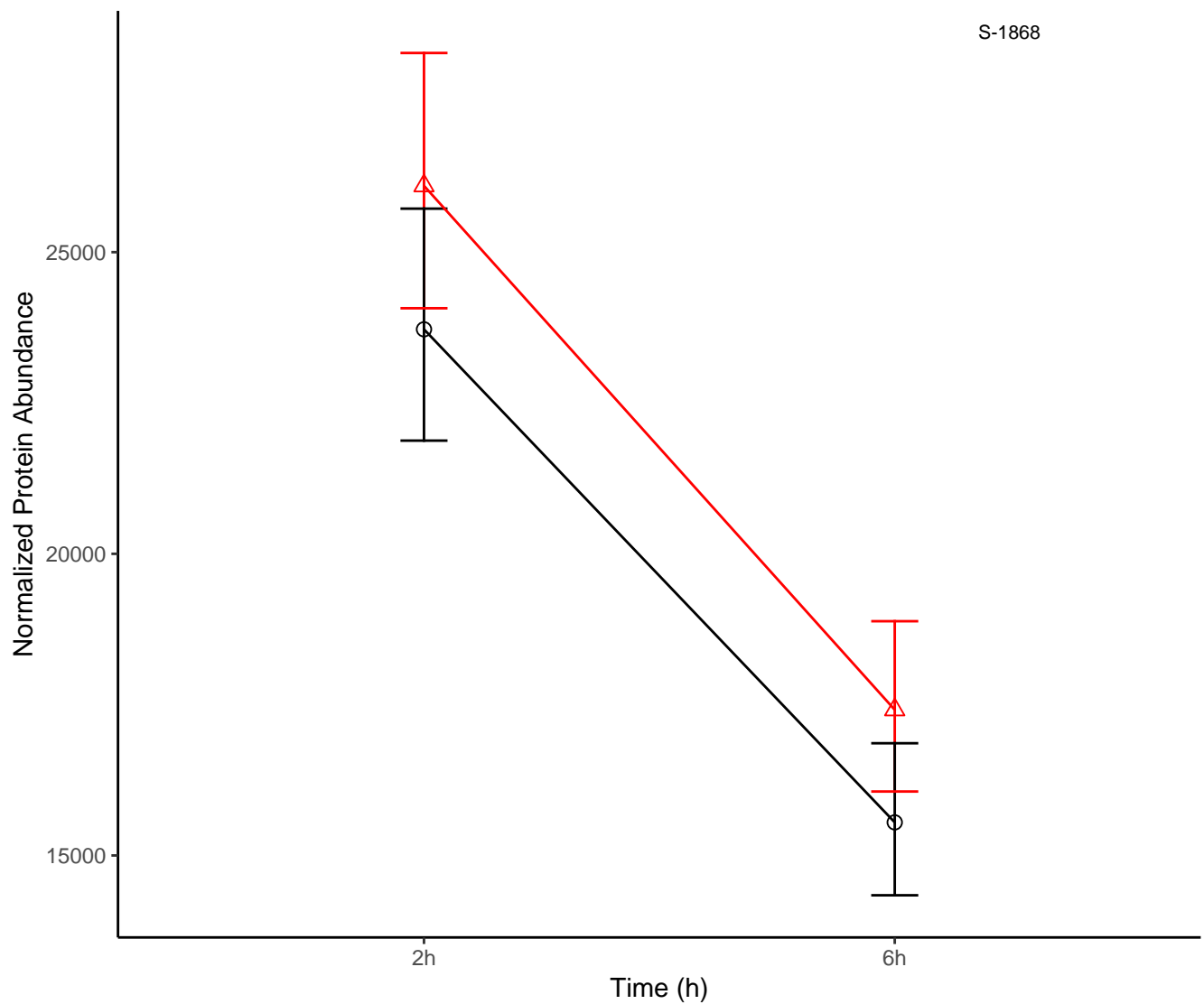


○ TSB-dex

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# RS5\_STAAM

S-1868

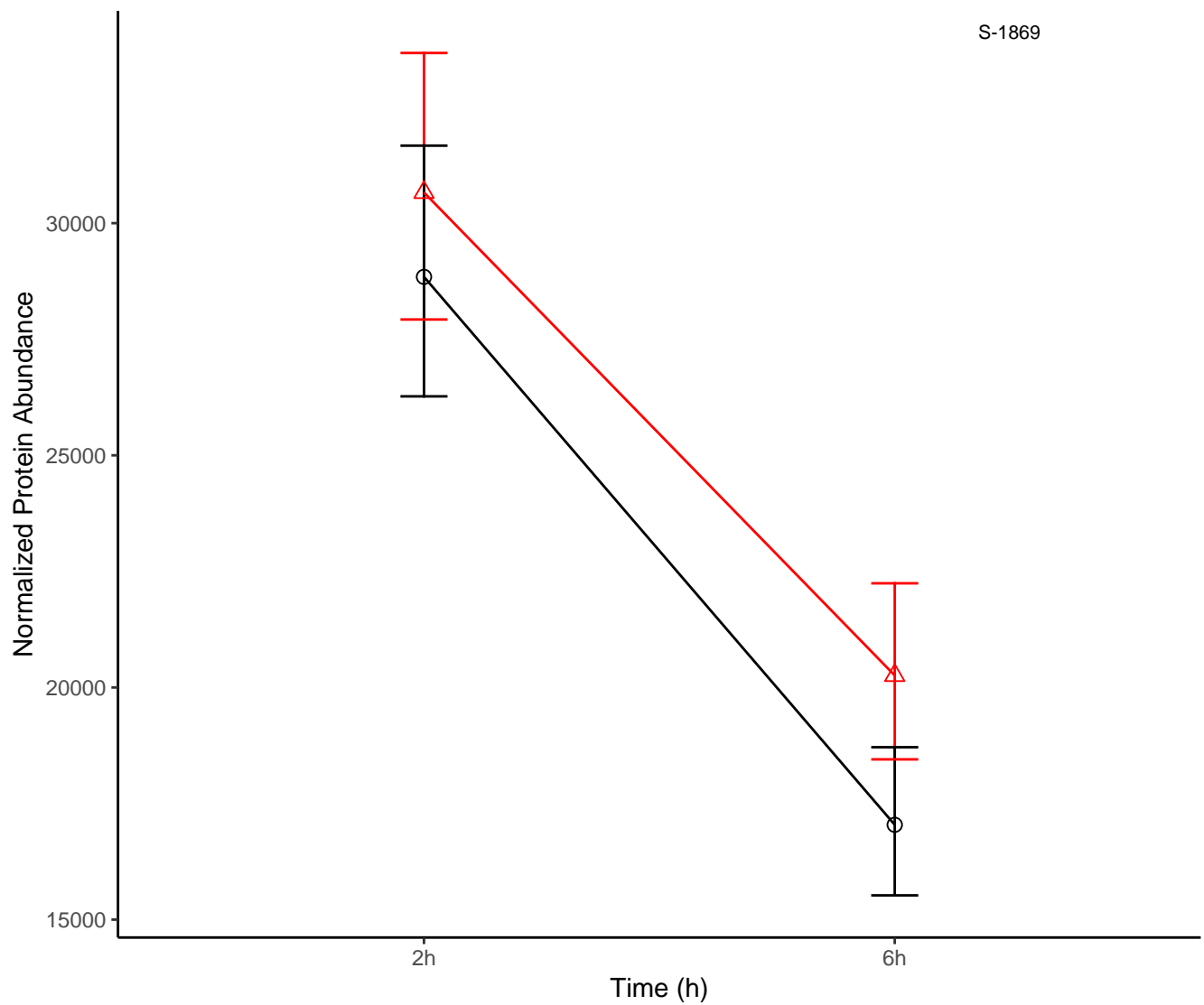


○ TSB-dex

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# RS6\_STAAM

S-1869

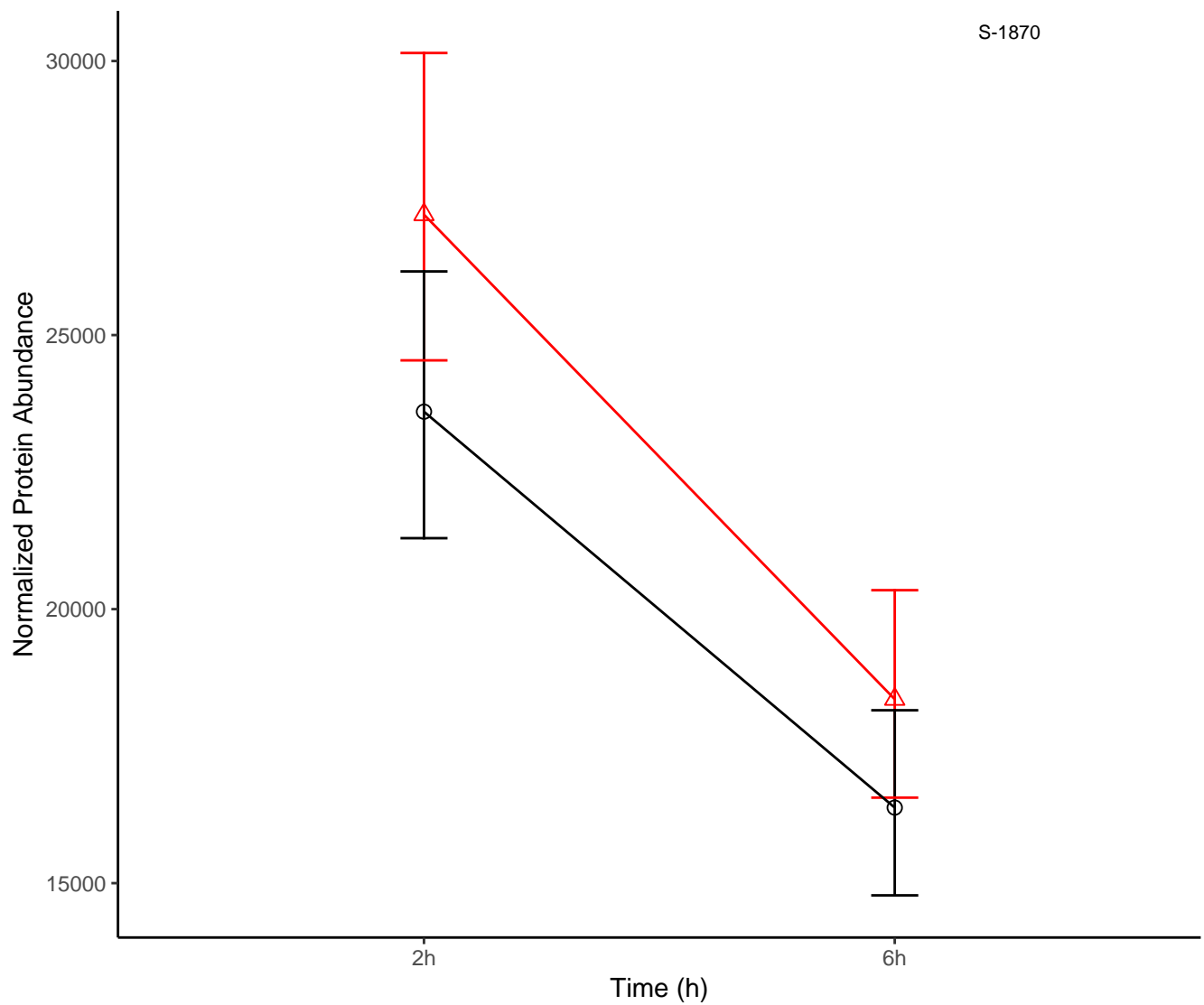


○ TSB-dex

△ TSB

# RS7\_STAAM

S-1870

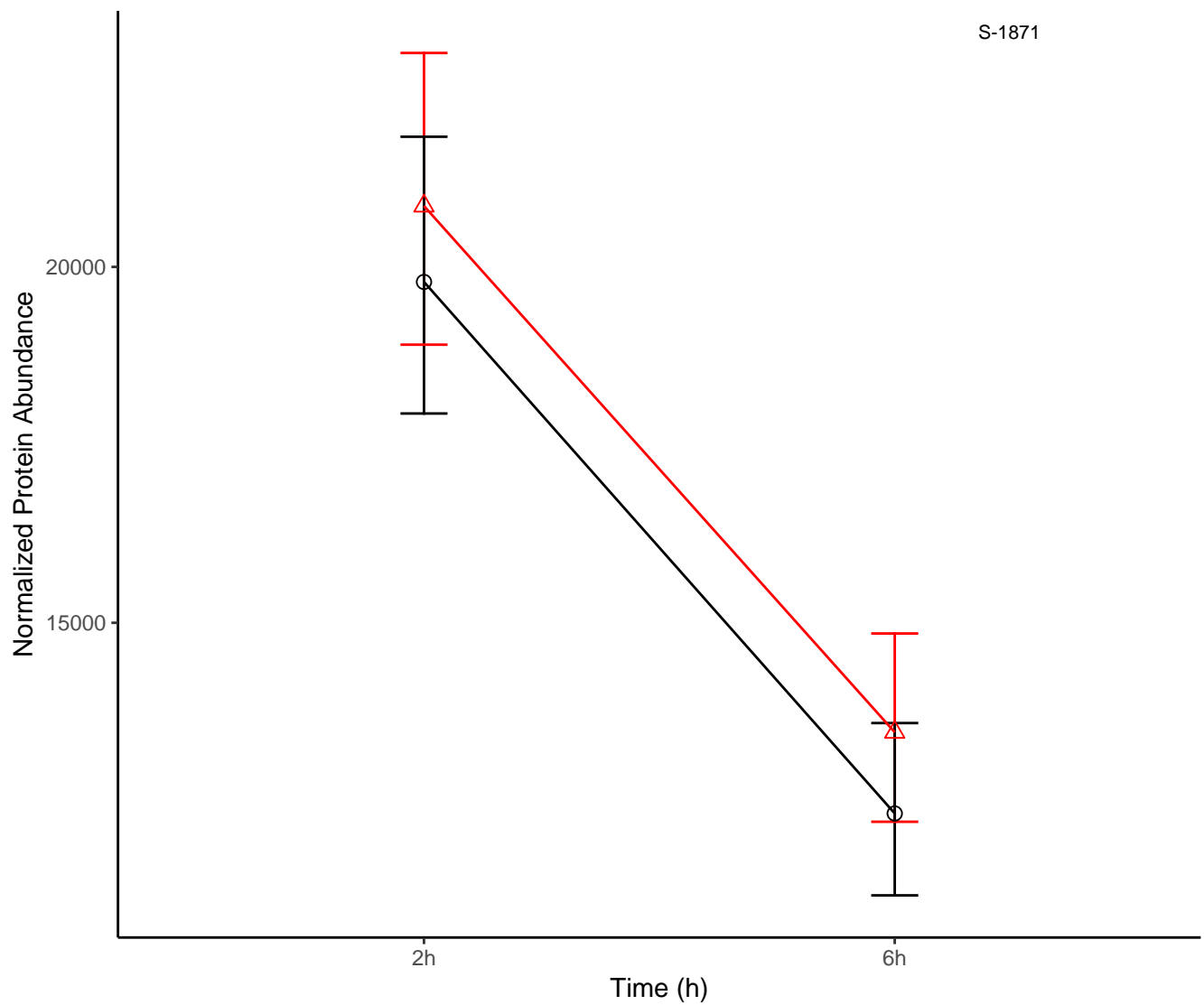


○ TSB-dex

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# RS8\_STAAM

S-1871

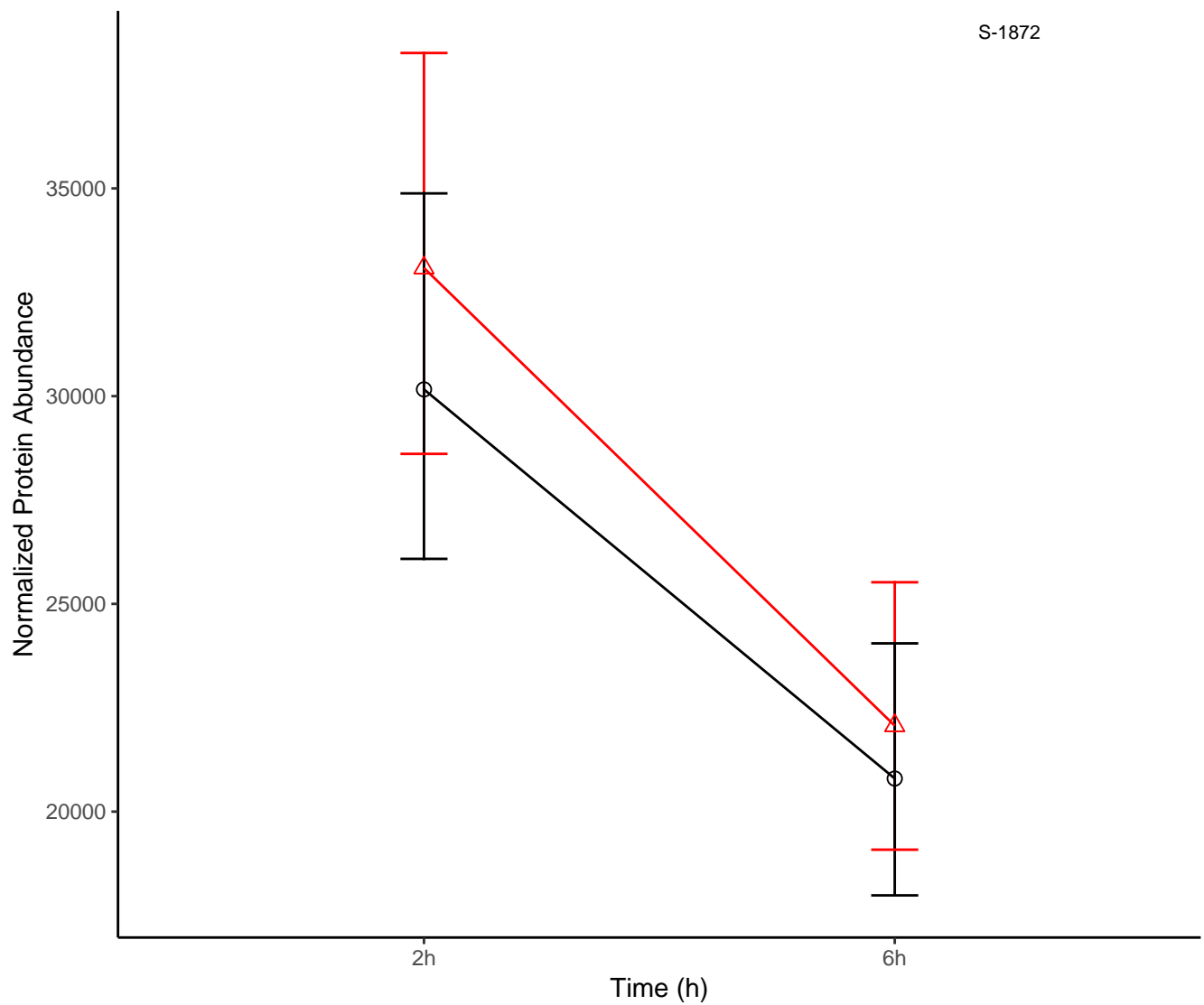


○ TSB-dex

△ TSB

# RS9\_STAAM

S-1872



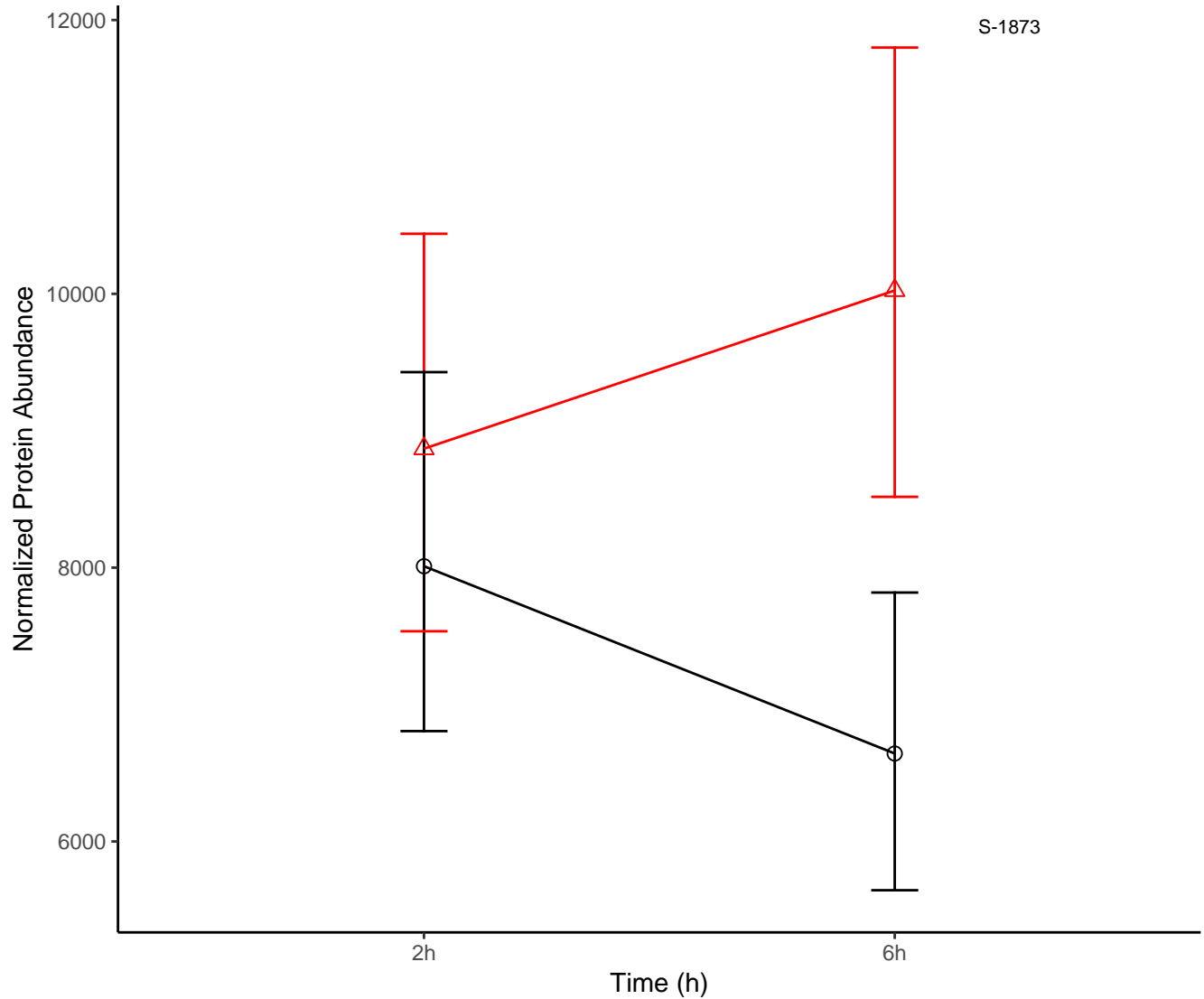
○ TSB-dex

△ TSB



# RSBV\_STAAM

S-1873

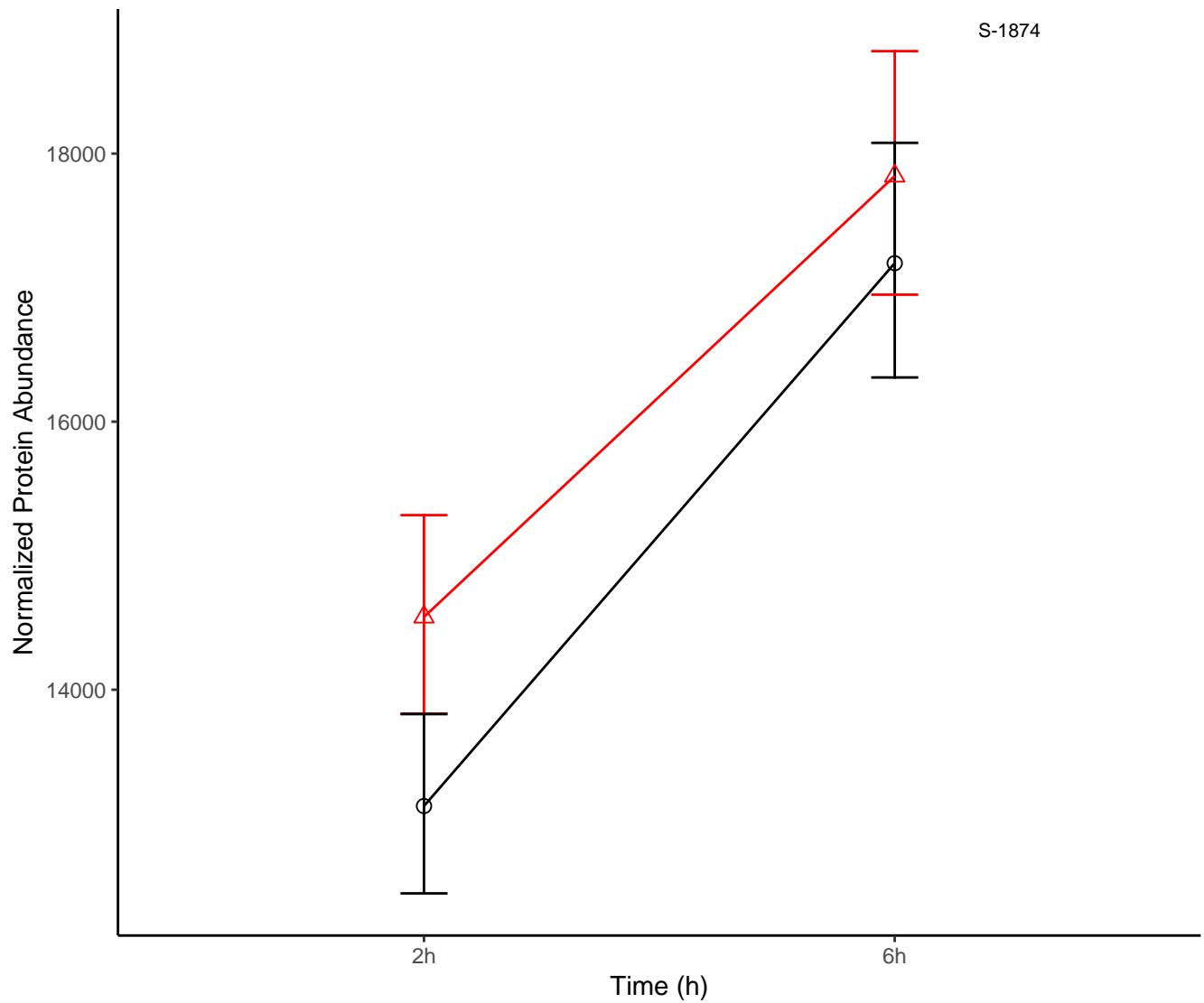


○ TSB-dex

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# RSBW\_STAAM

S-1874

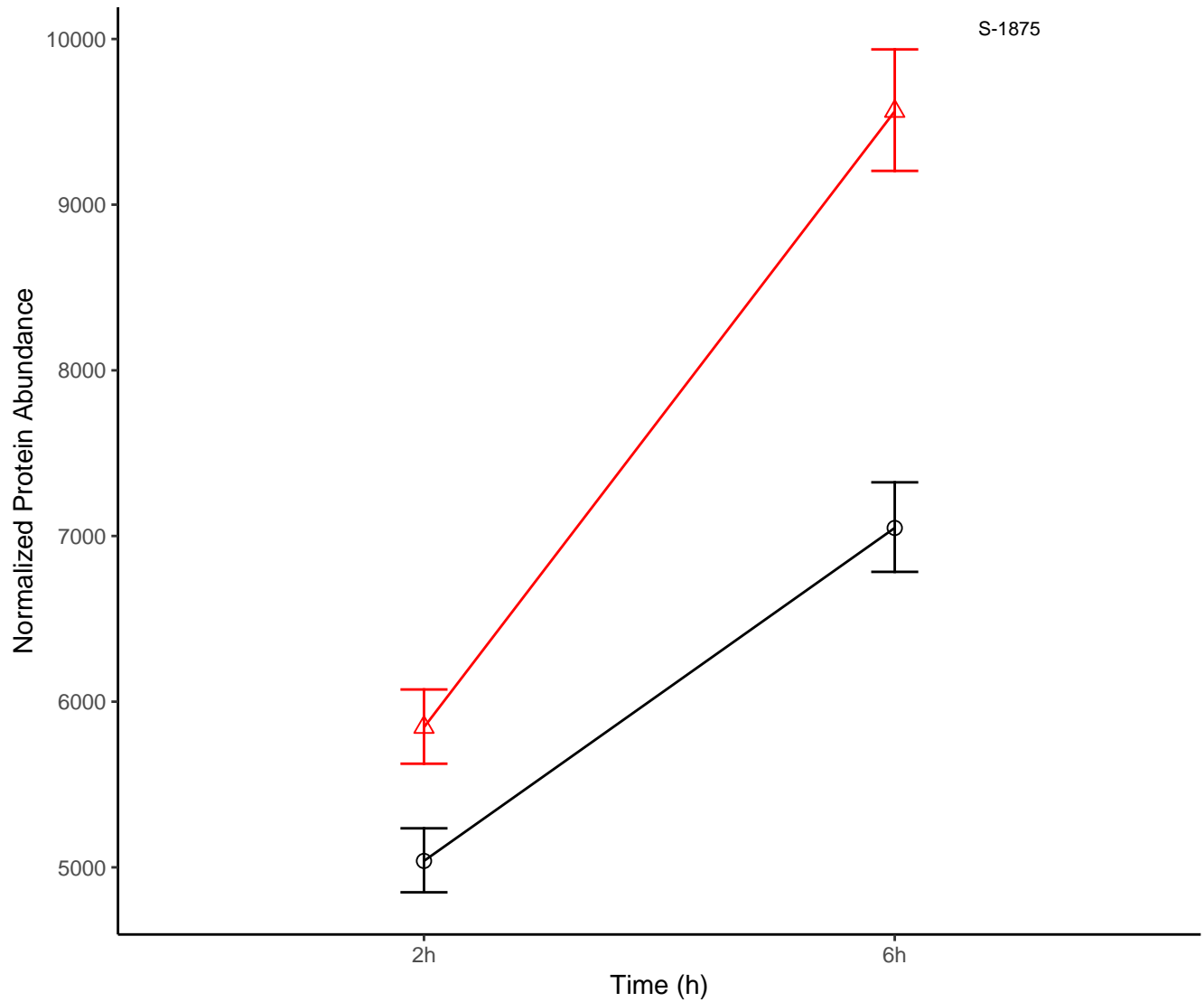


○ TSB-dex

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# RSMA\_STAAM

S-1875

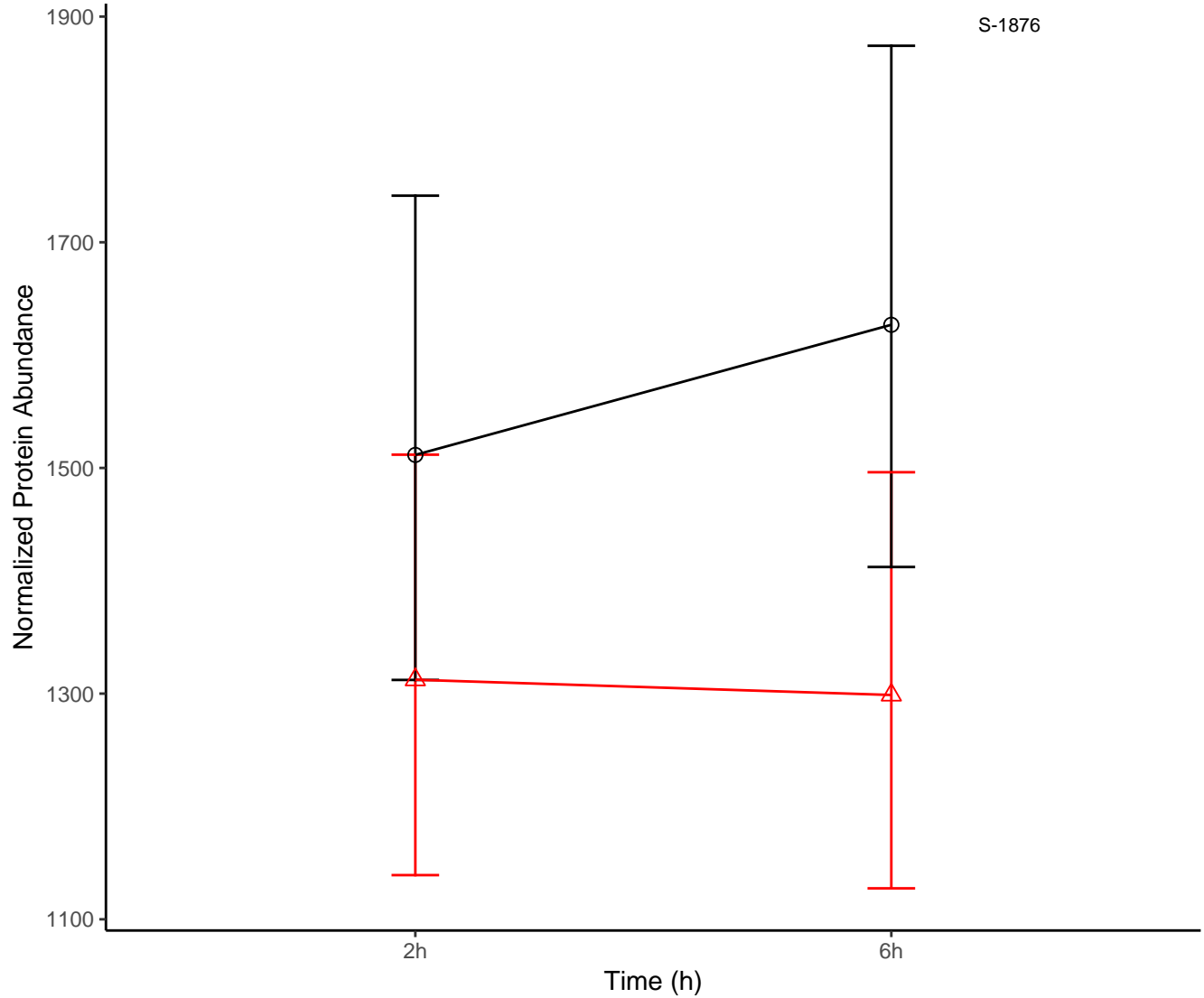


○ TSB-dex

△ TSB

# RSMG\_STAAM

S-1876

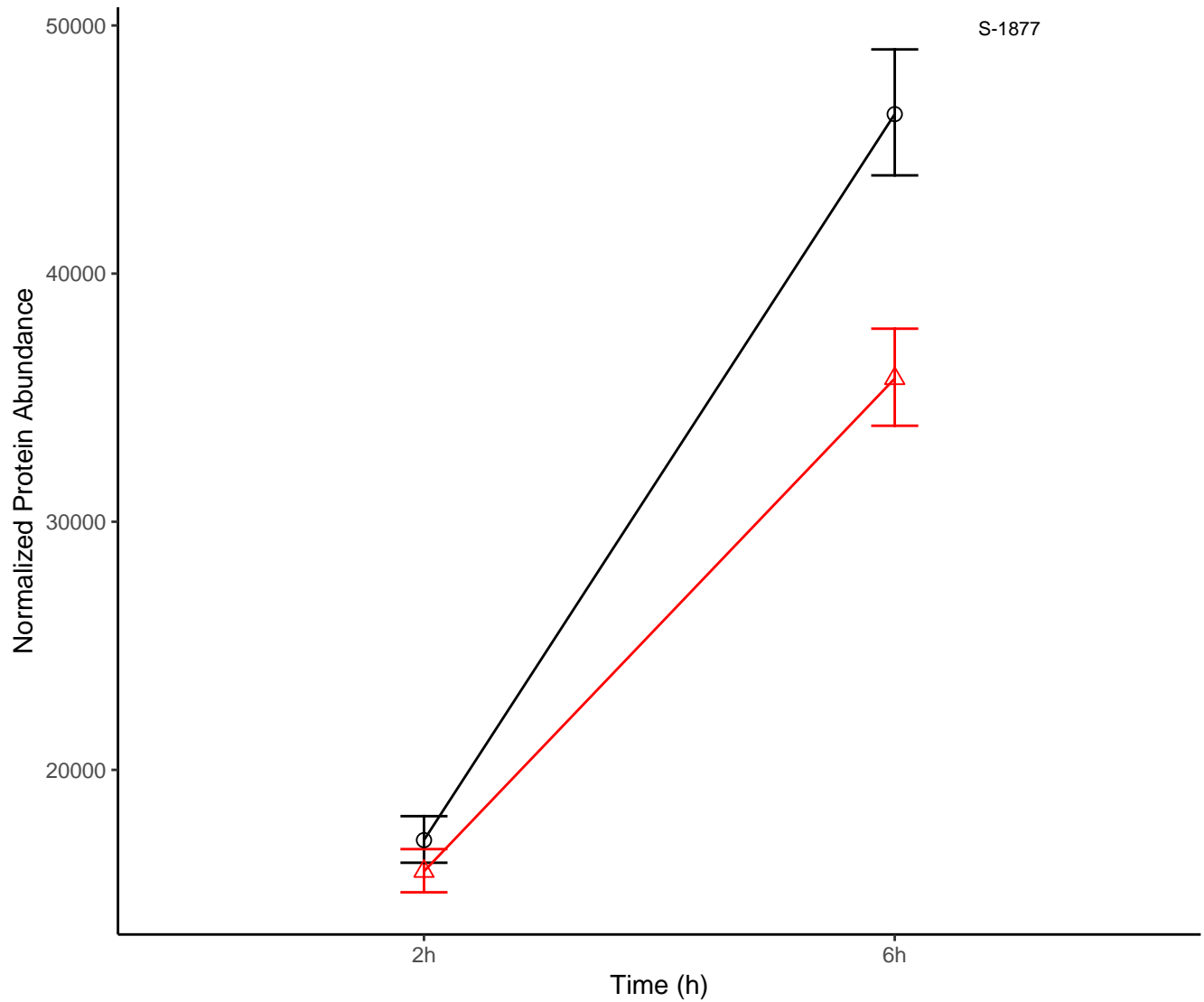


○ TSB-dex

△ TSB

# RUVX\_STAAM

S-1877

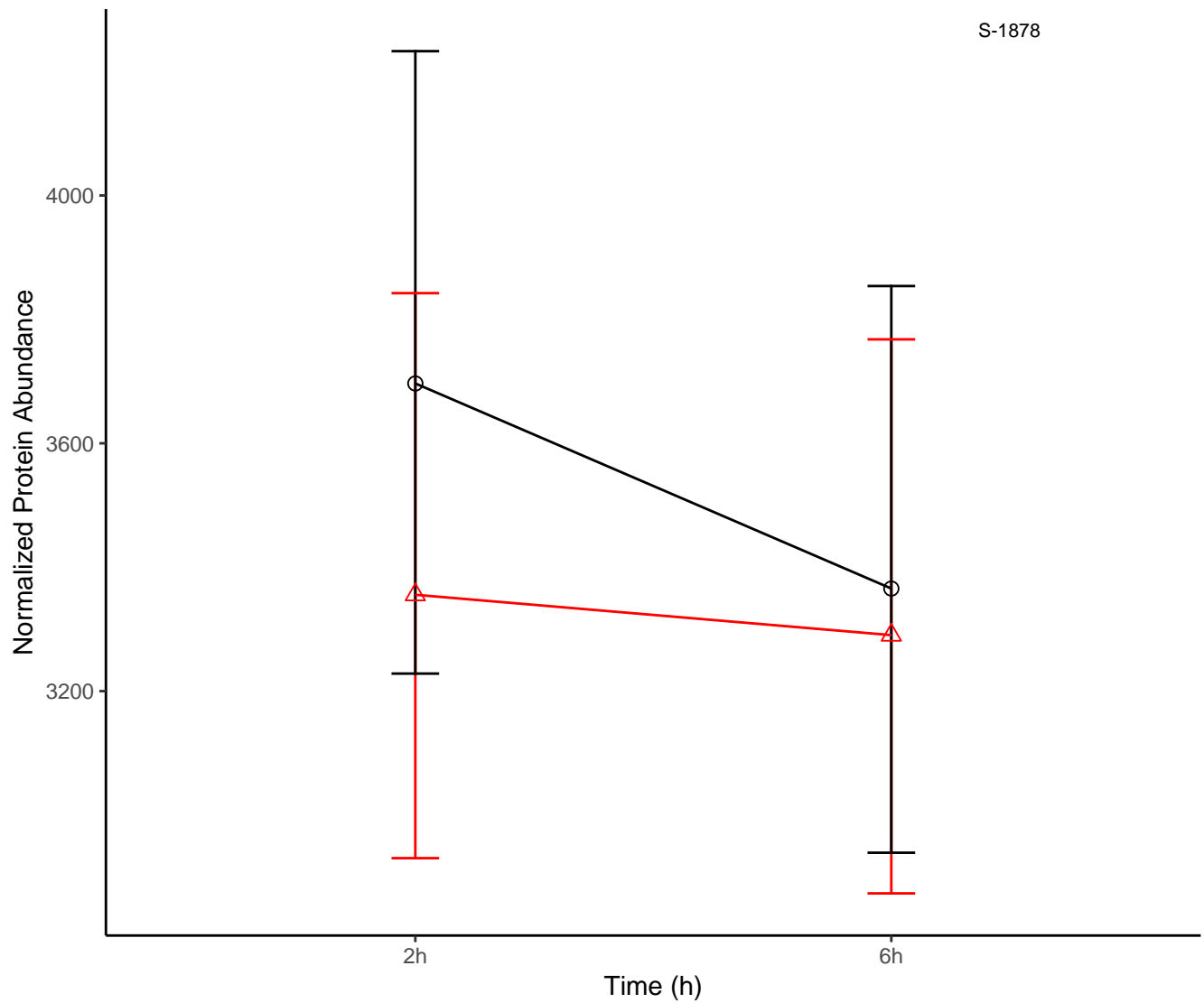


○ TSB-dex

△ TSB

# S3AD\_STAAM

S-1878

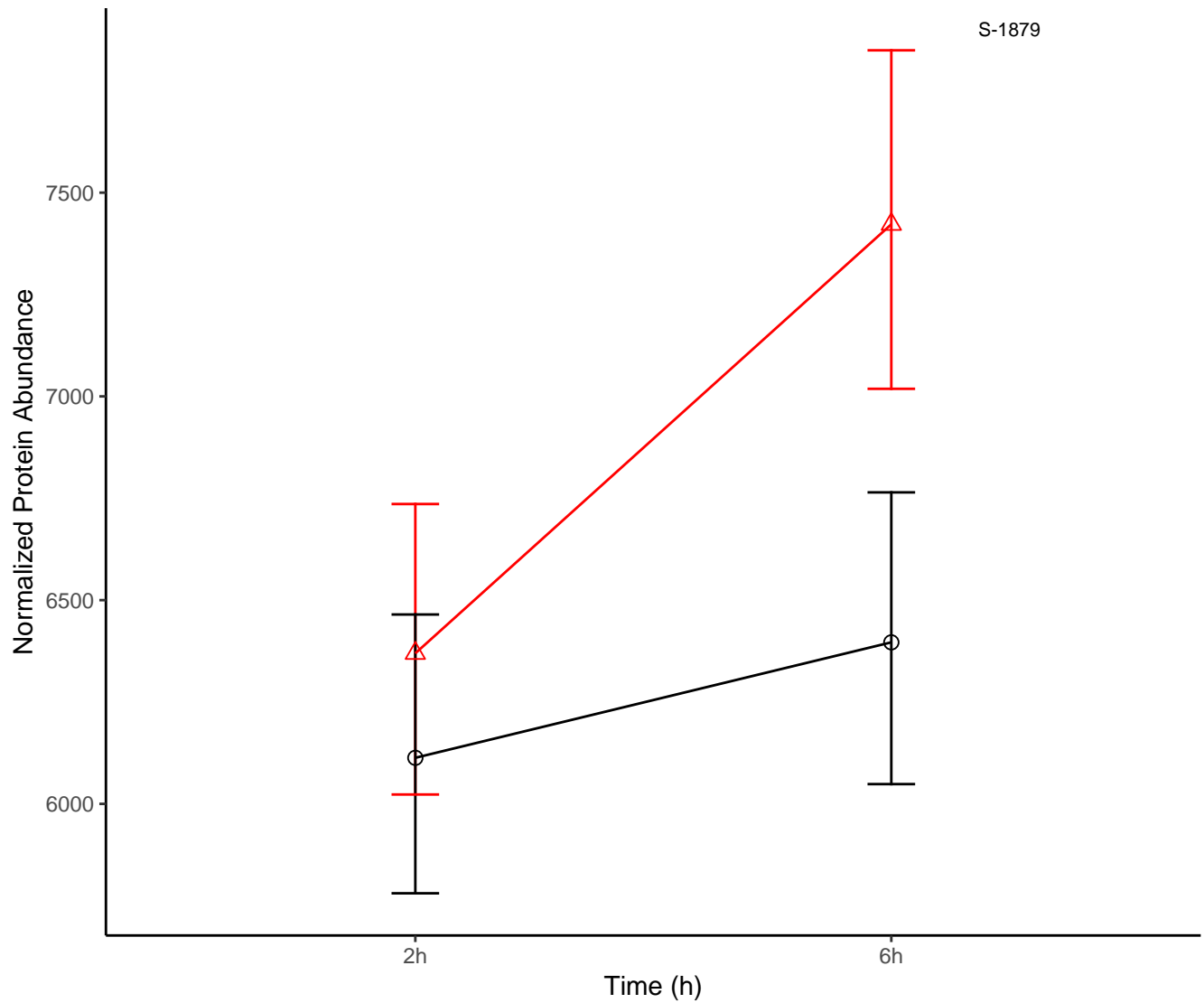


○ TSB-dex

△ TSB

# SAER\_STAAM

S-1879

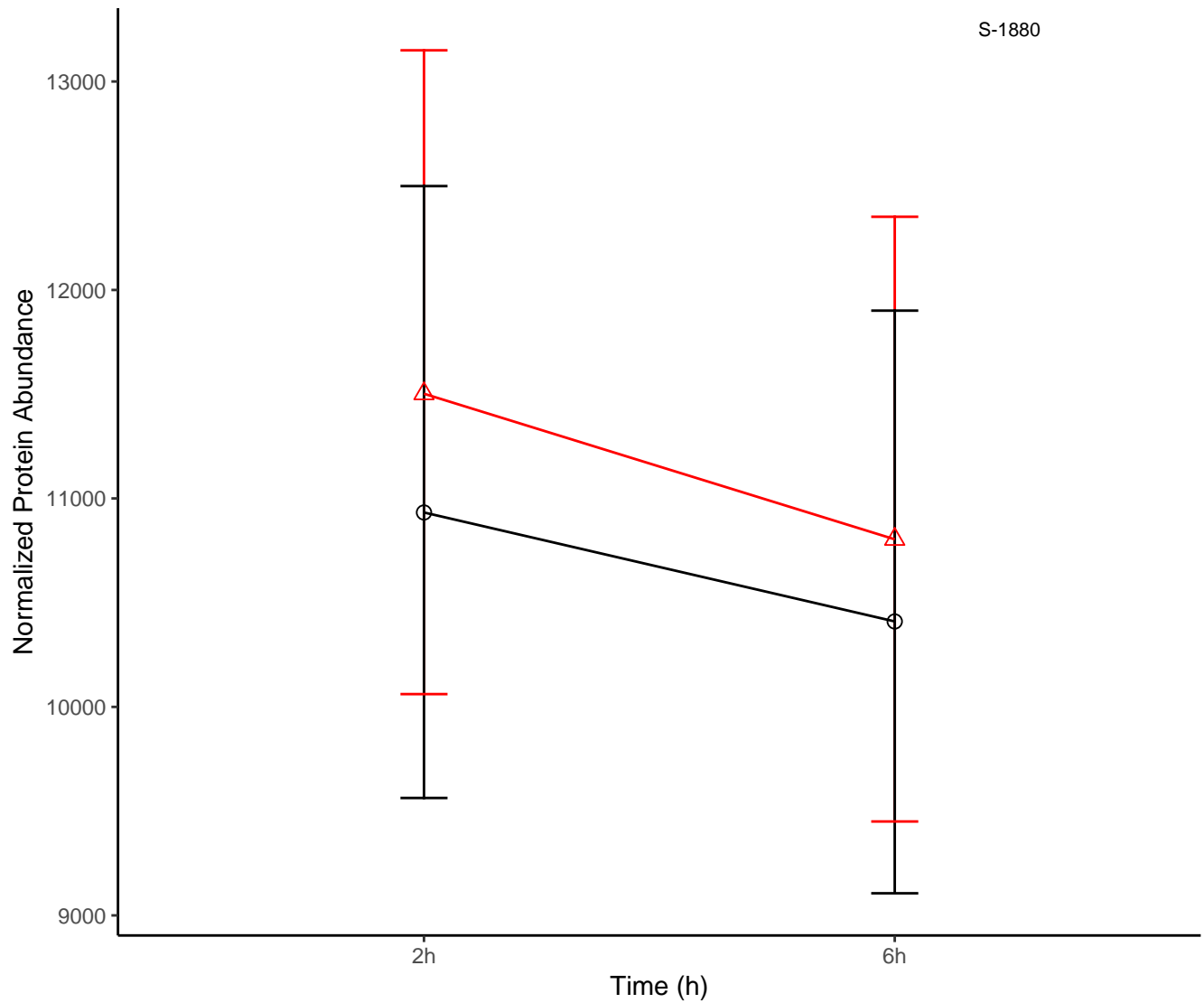


○ TSB-dex

△ TSB

# SARA\_STAAM

S-1880



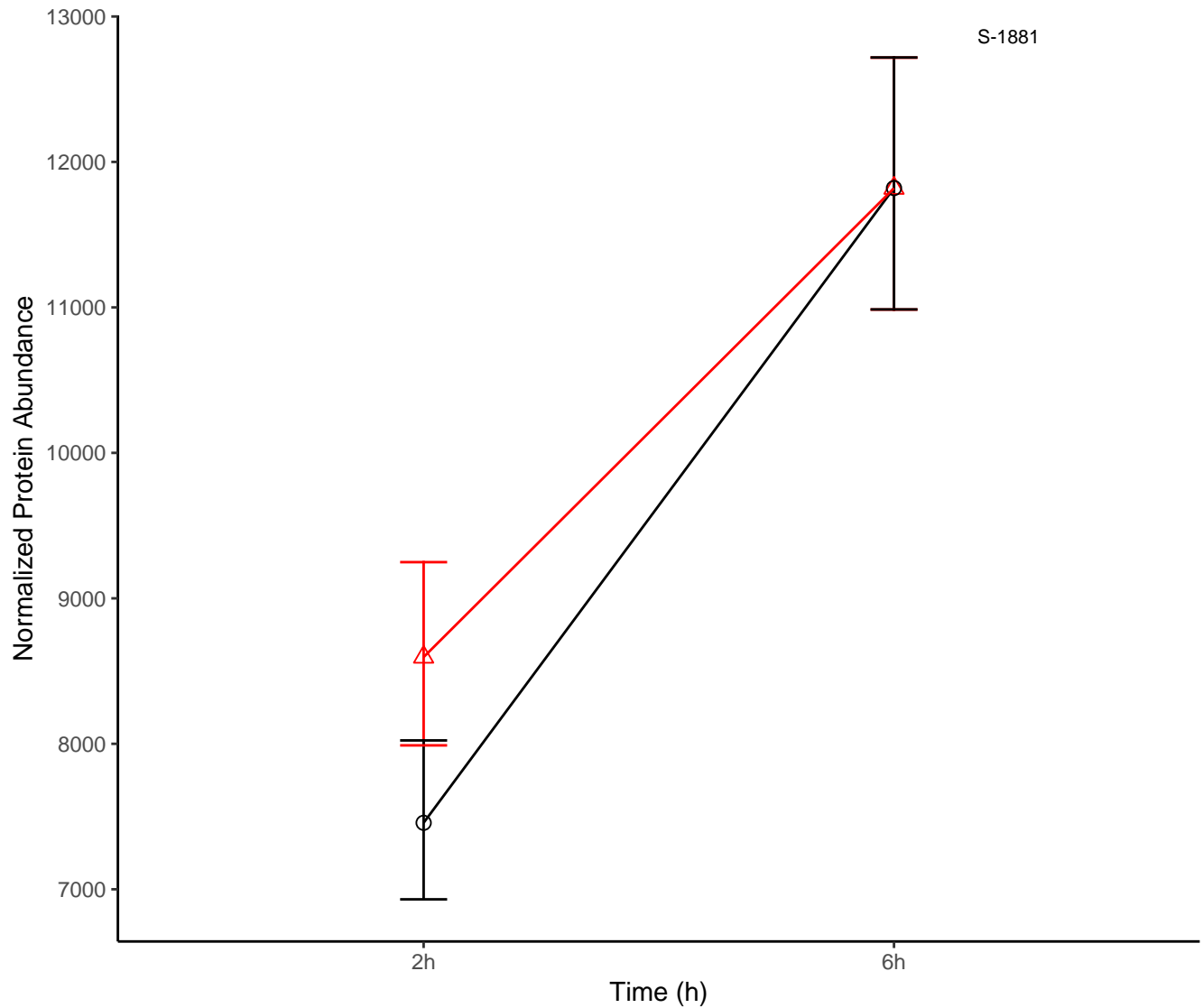
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# SARR\_STAAM

S-1881

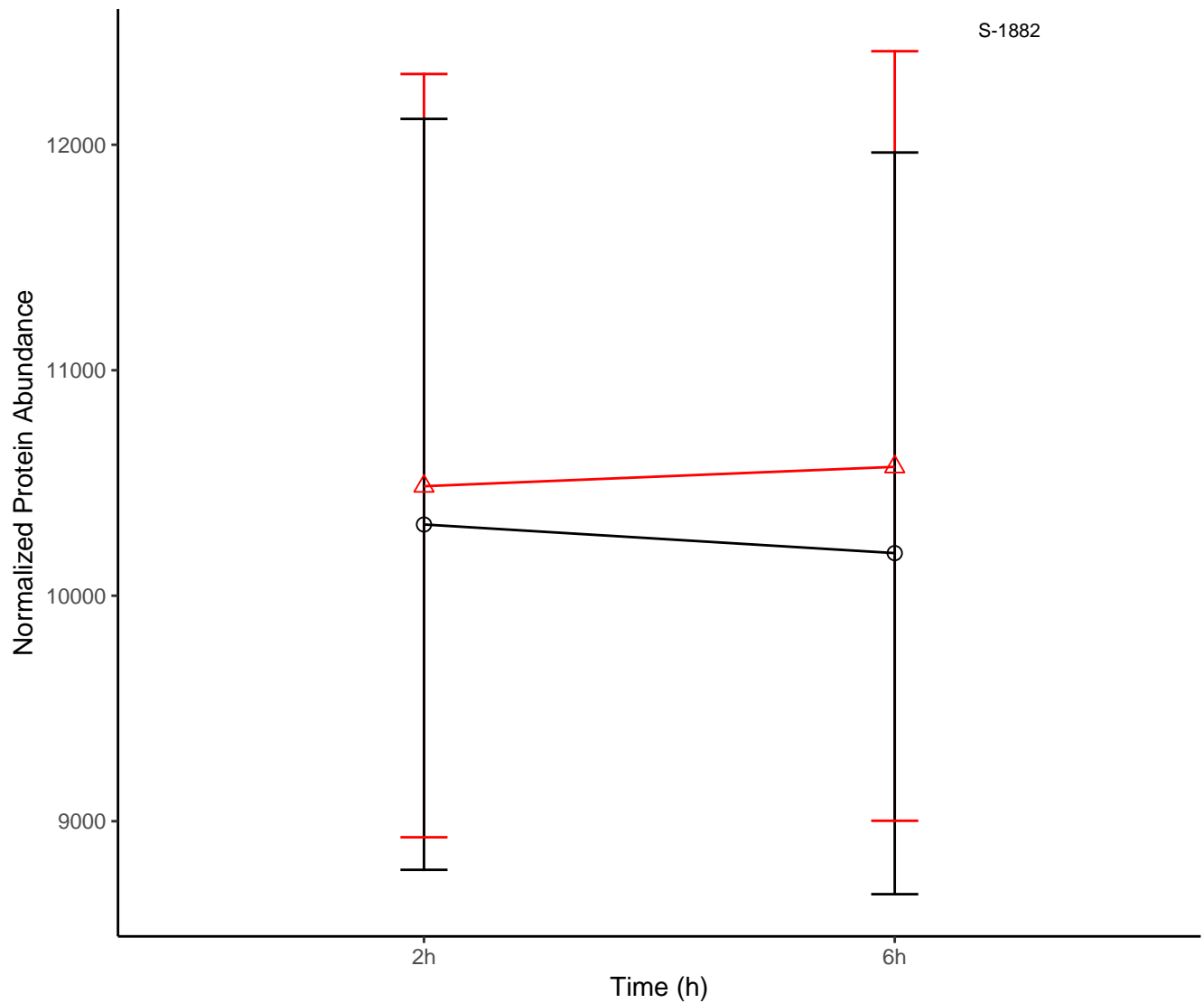


○ TSB-dex

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# SARS\_STAAM

S-1882

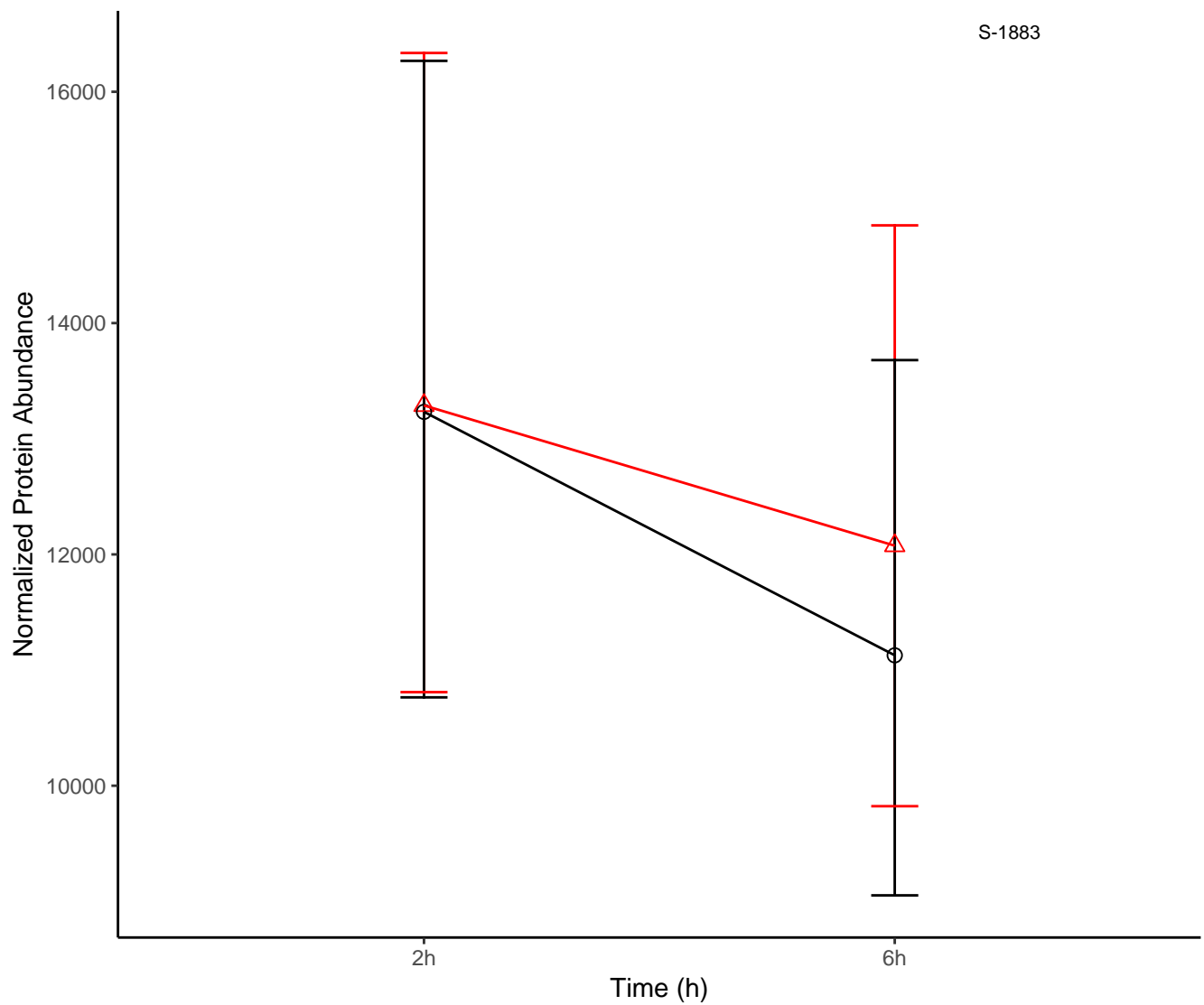


○ TSB-dex

△ TSB

# SBCC\_STAAM

S-1883

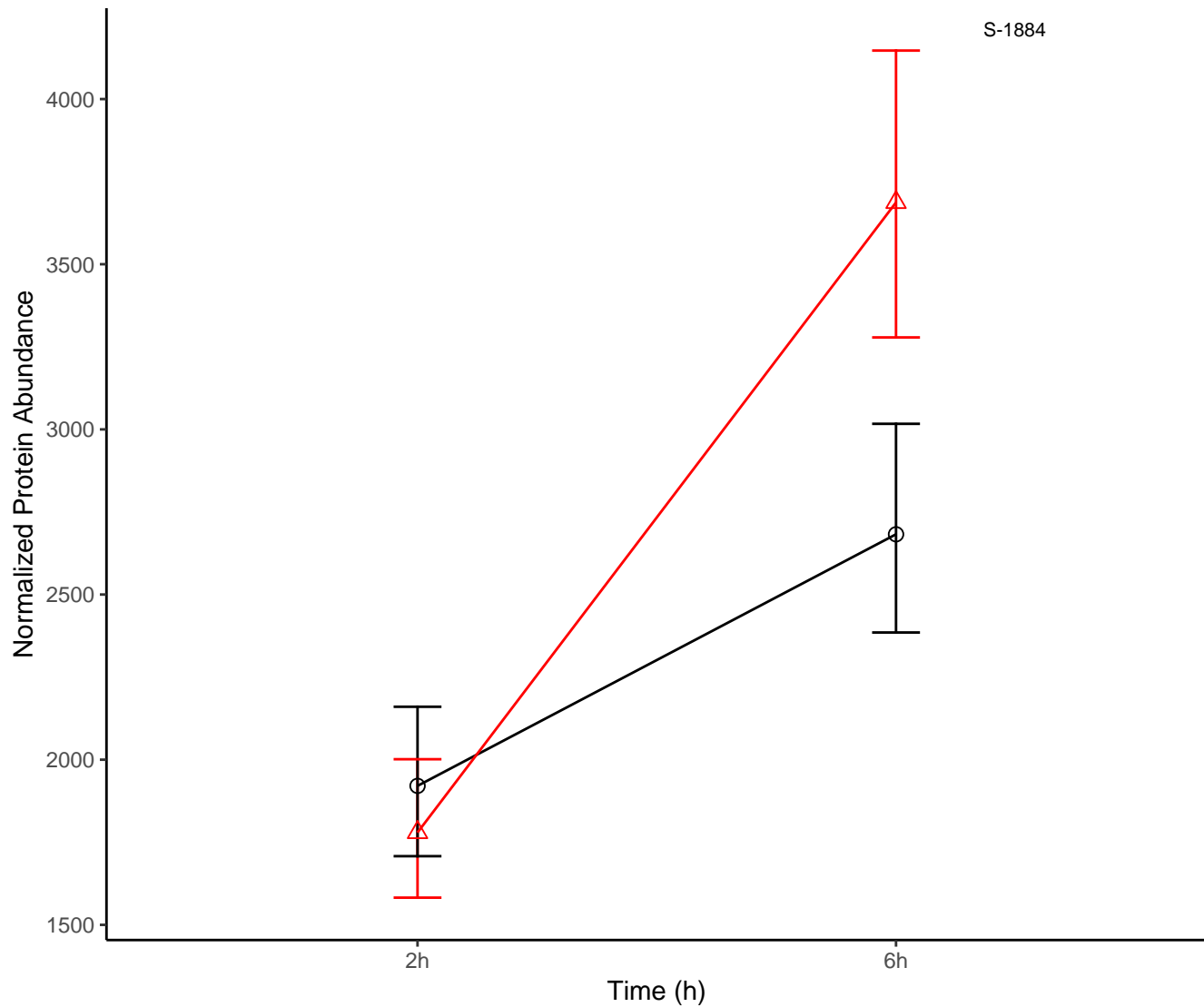


○ TSB-dex

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# SBI\_STAAM

S-1884

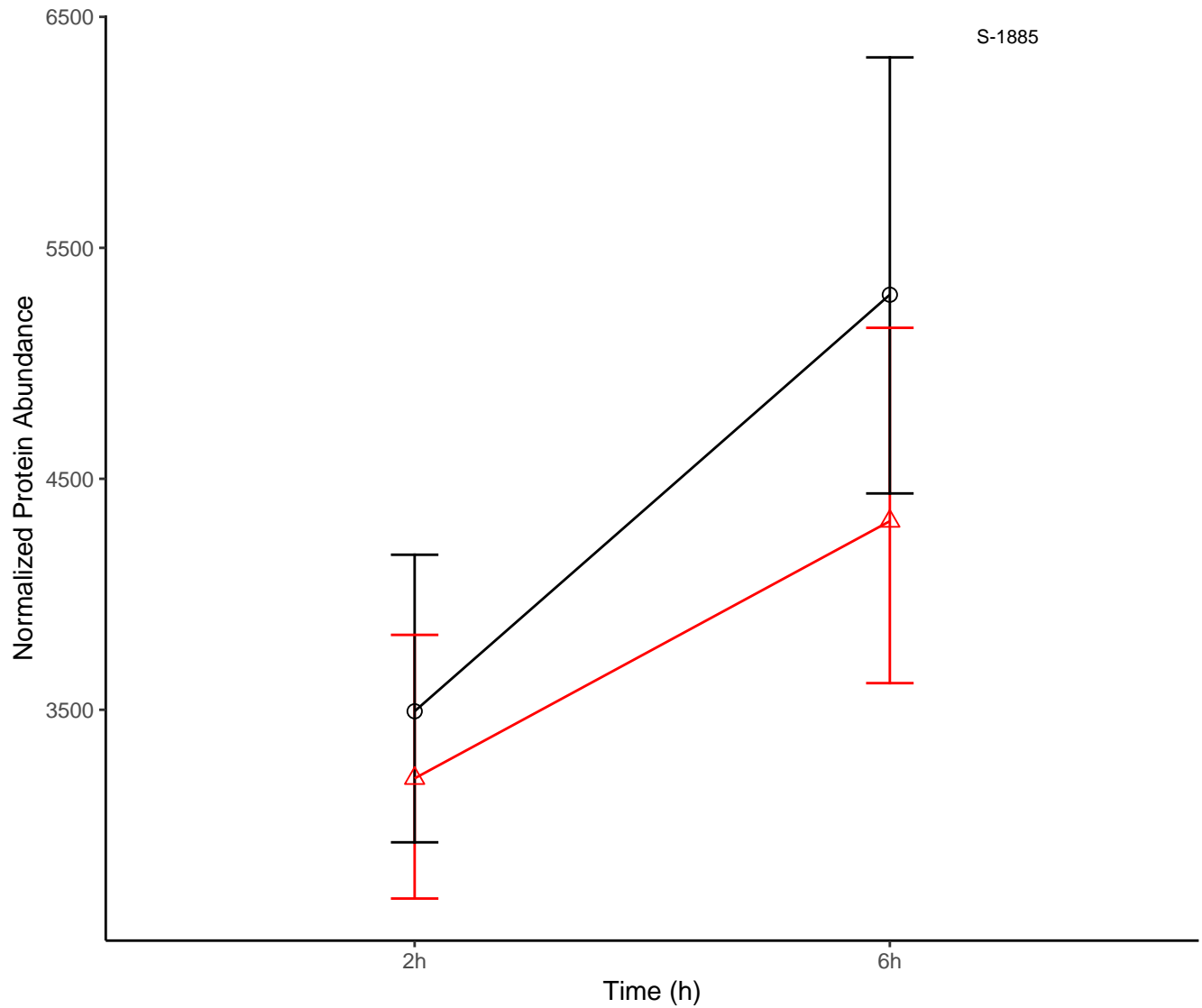


○ TSB-dex

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# SCPA\_STAAM

S-1885

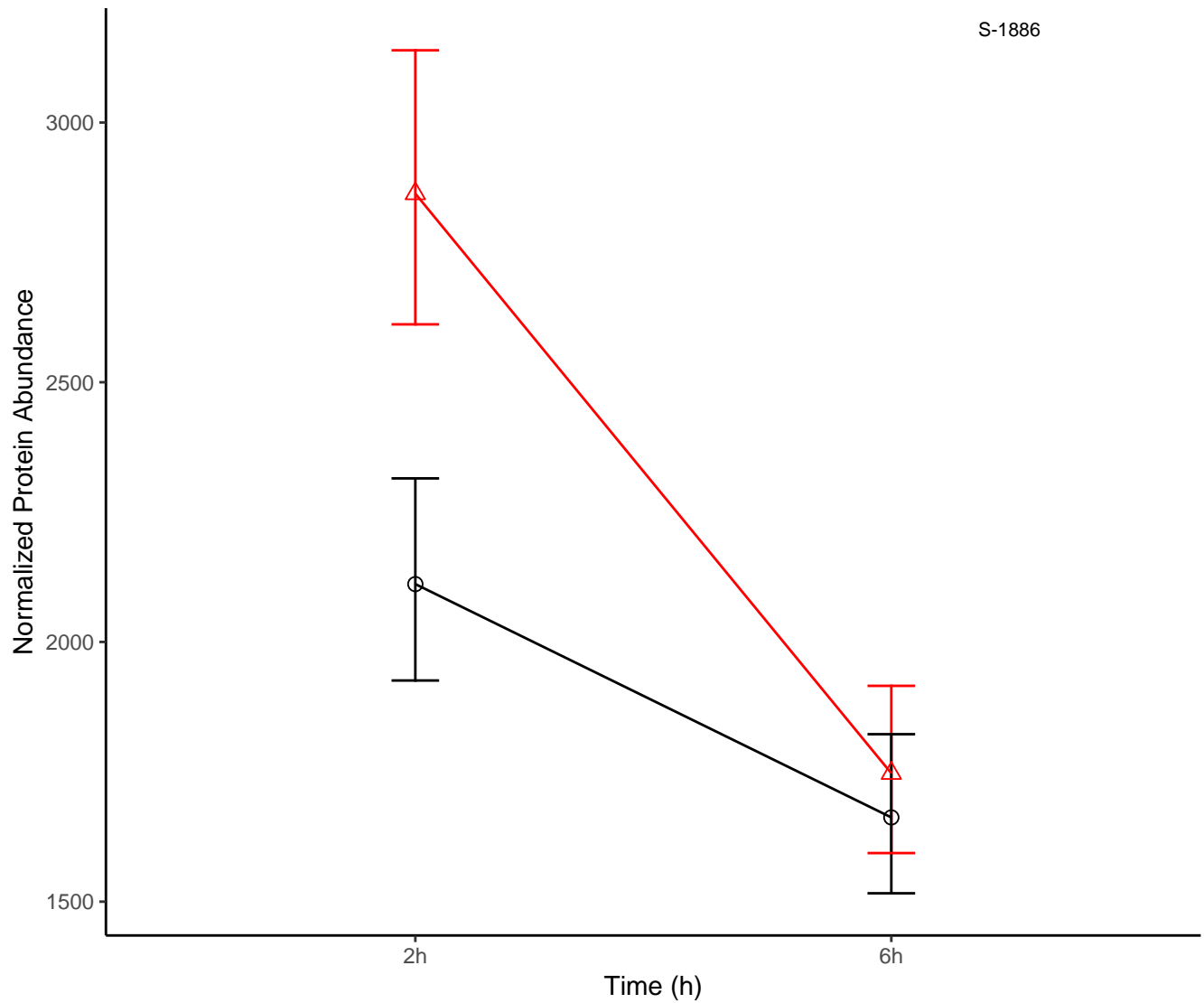


○ TSB-dex

△ TSB

# SCPB\_STAAM

S-1886

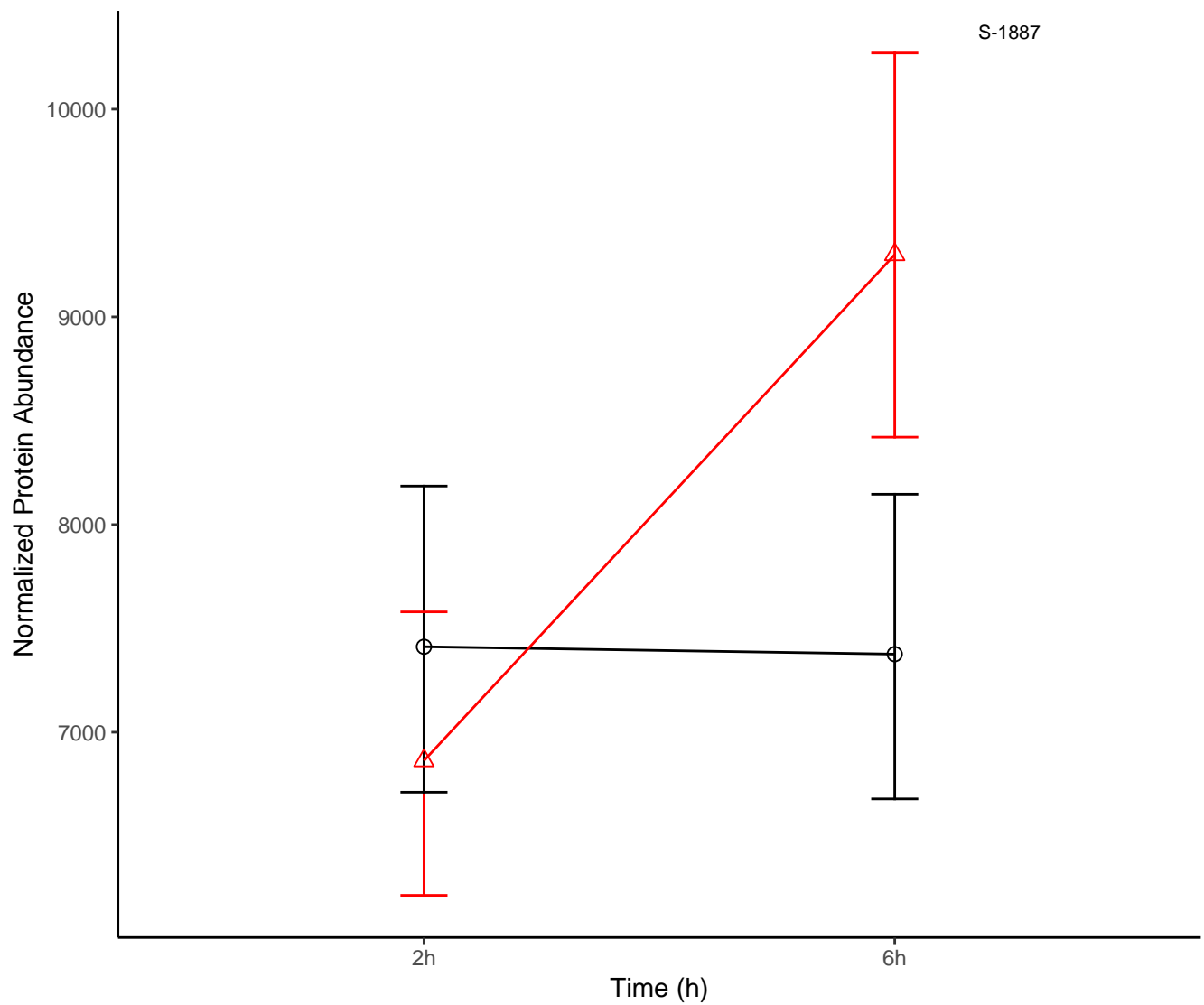


○ TSB-dex

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# SECA1\_STAAM

S-1887

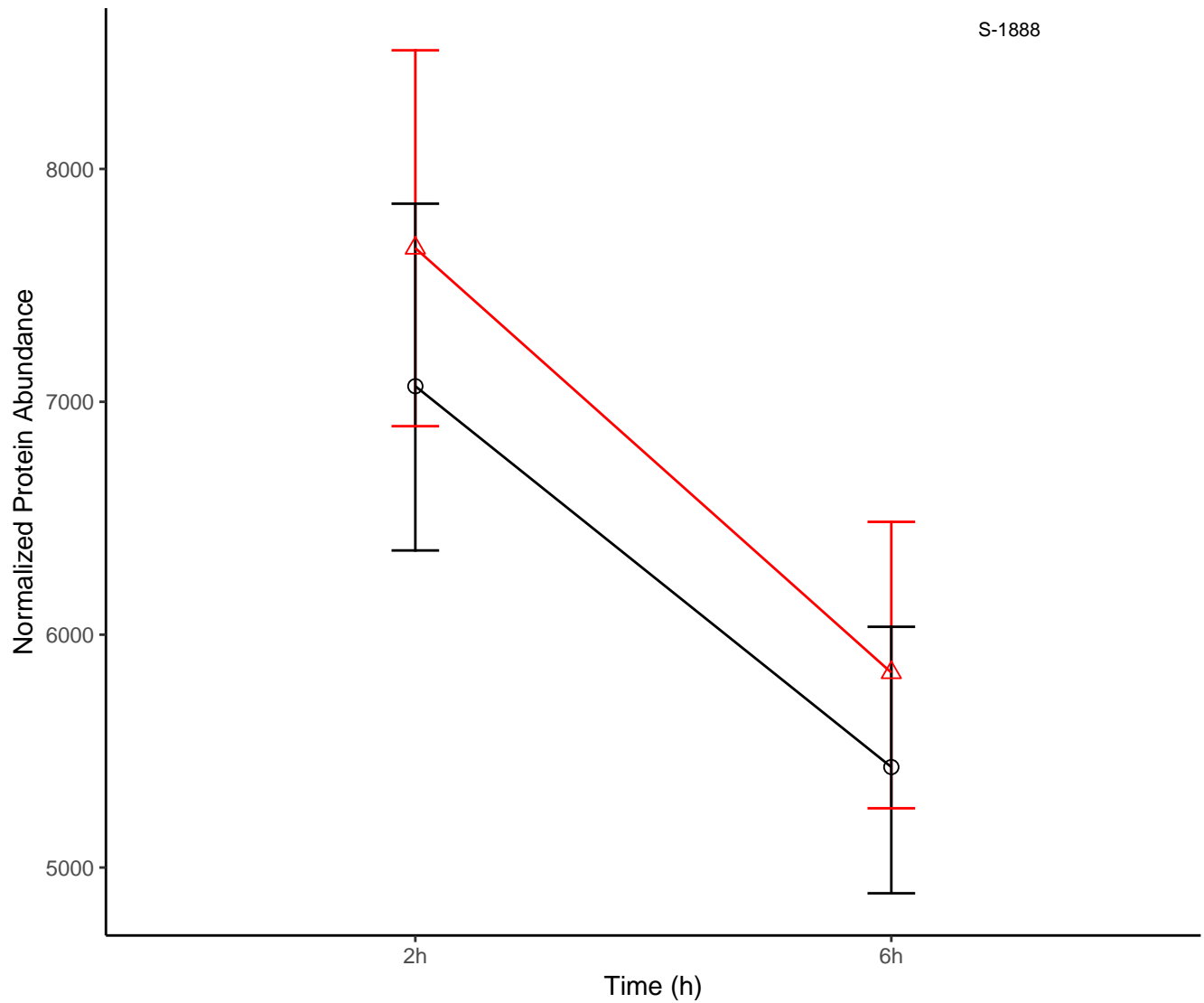


○ TSB-dex

△ TSB

# SIGA\_STAAM

S-1888



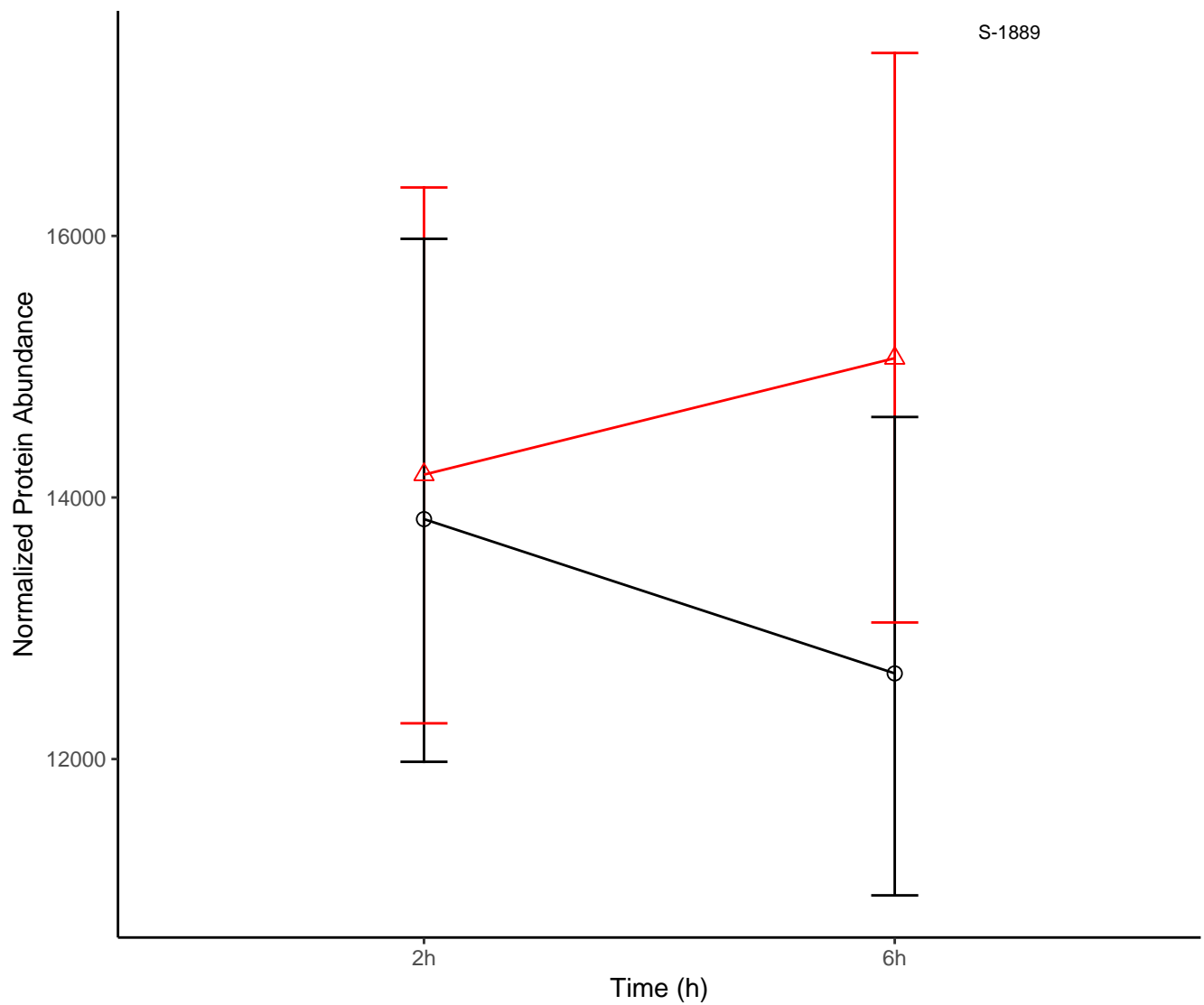
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△ TSB



# SODM1\_STAAM

S-1889

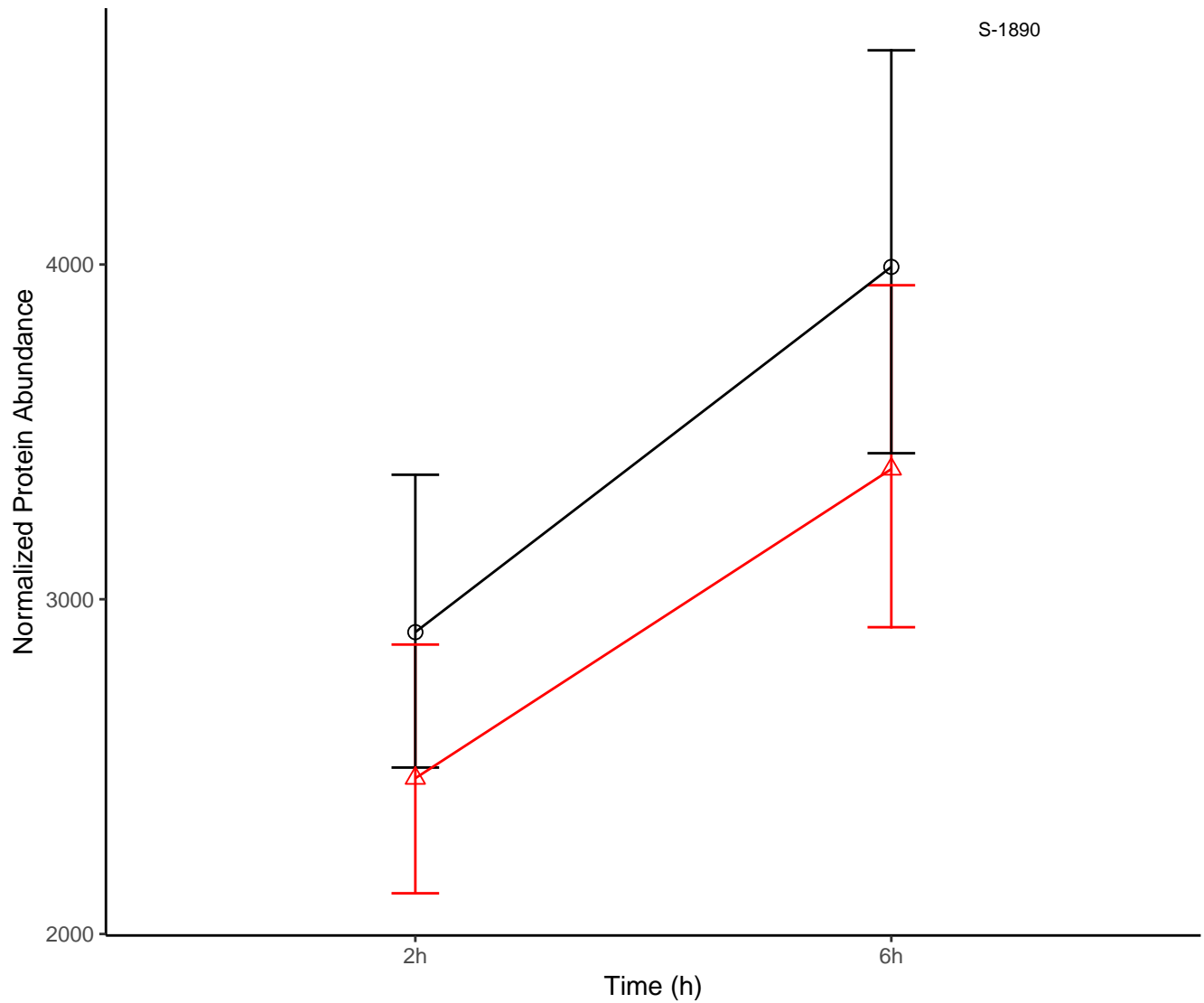


○ TSB-dex

△ TSB

# SODM2\_STAAM

S-1890

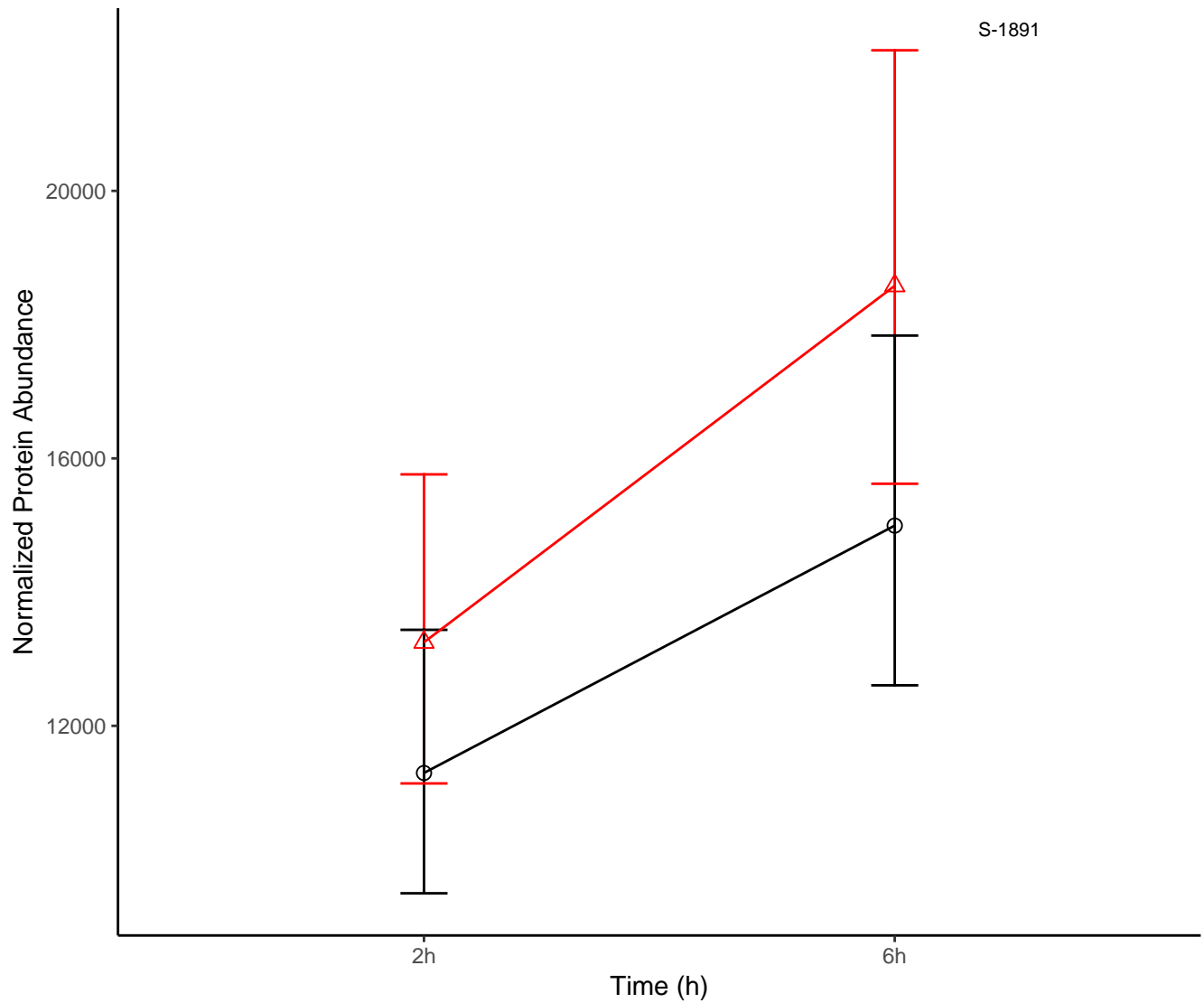


○ TSB-dex

△ TSB

# SP5G\_STAAM

S-1891

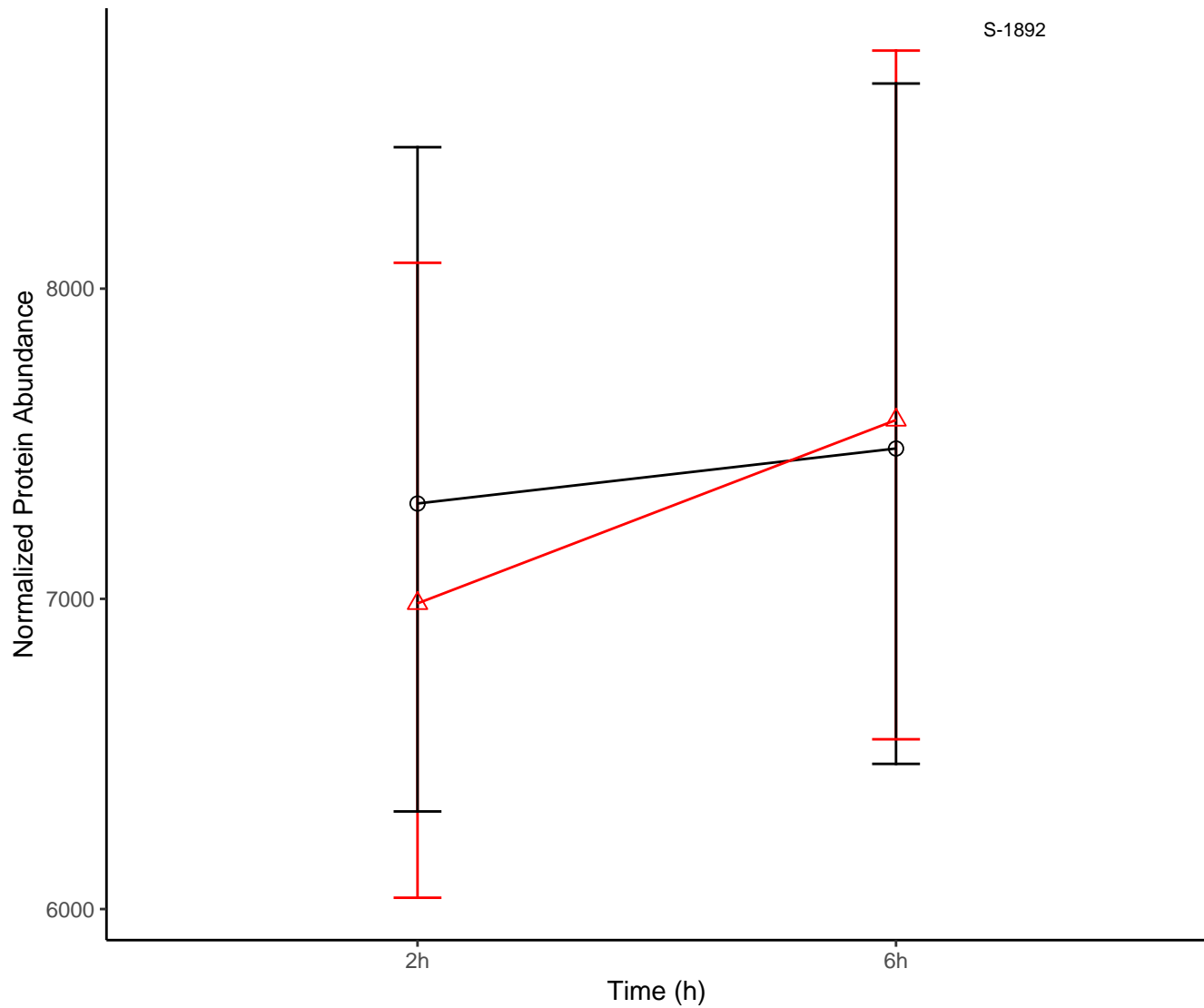


○ TSB-dex

△ TSB

# SPA\_STAAM

S-1892

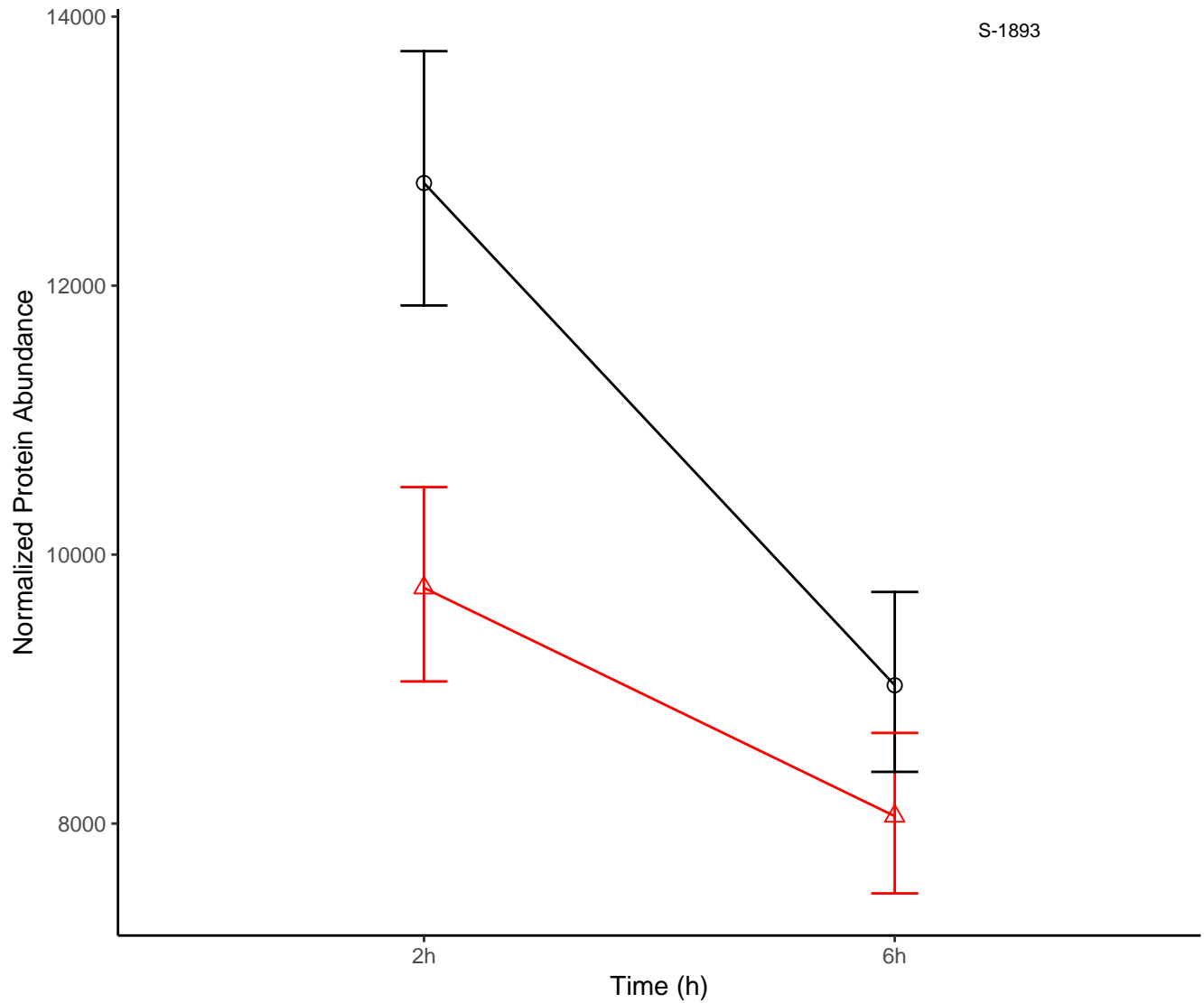


○ TSB-dex

△ TSB

# SPLD\_STAAM

S-1893

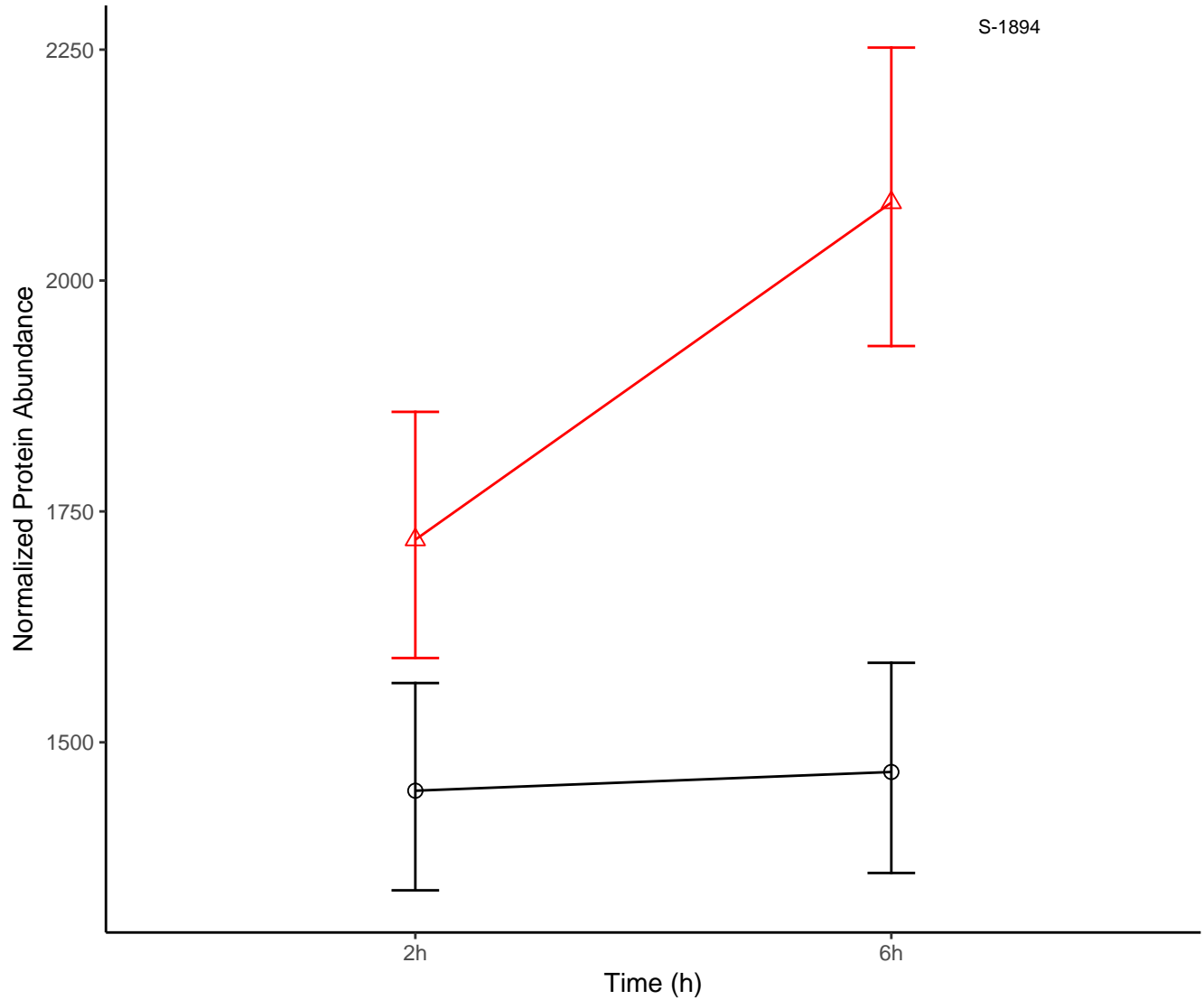


○ TSB-dex

△ TSB

# SPX\_STAAM

S-1894

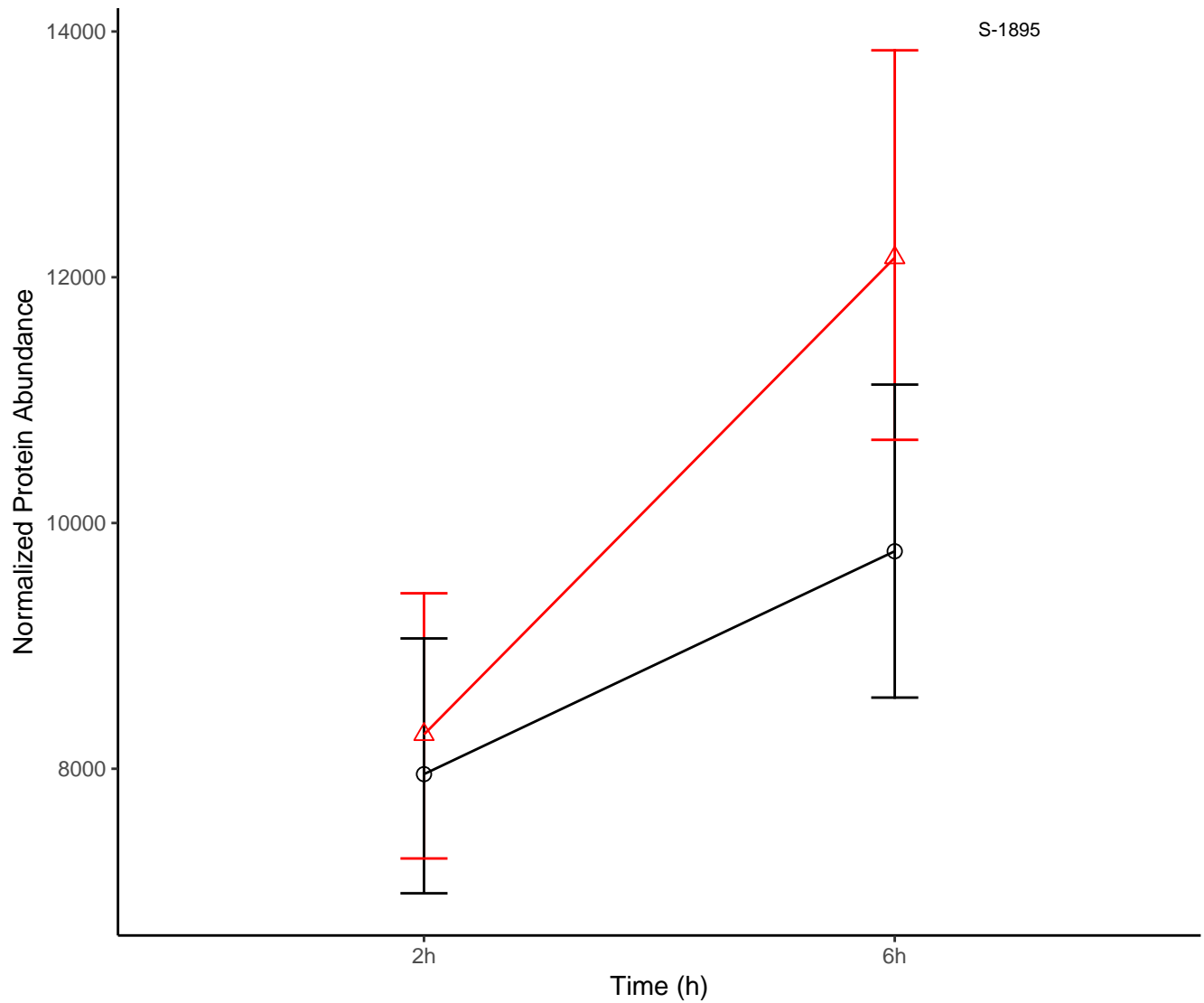


○ TSB-dex

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# SRRRA\_STAAM

S-1895

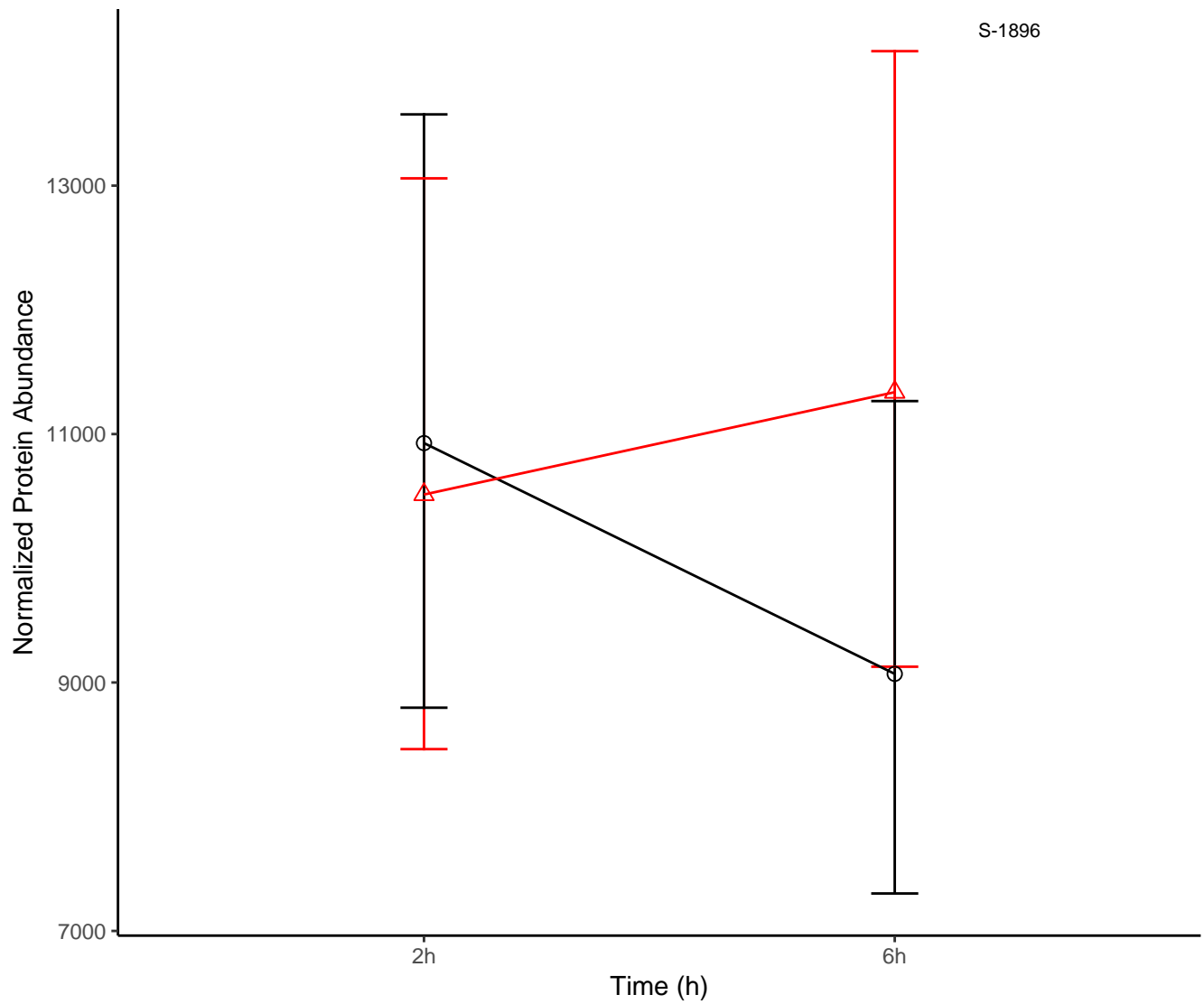


○ TSB-dex

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# SSAA2\_STAAM

S-1896



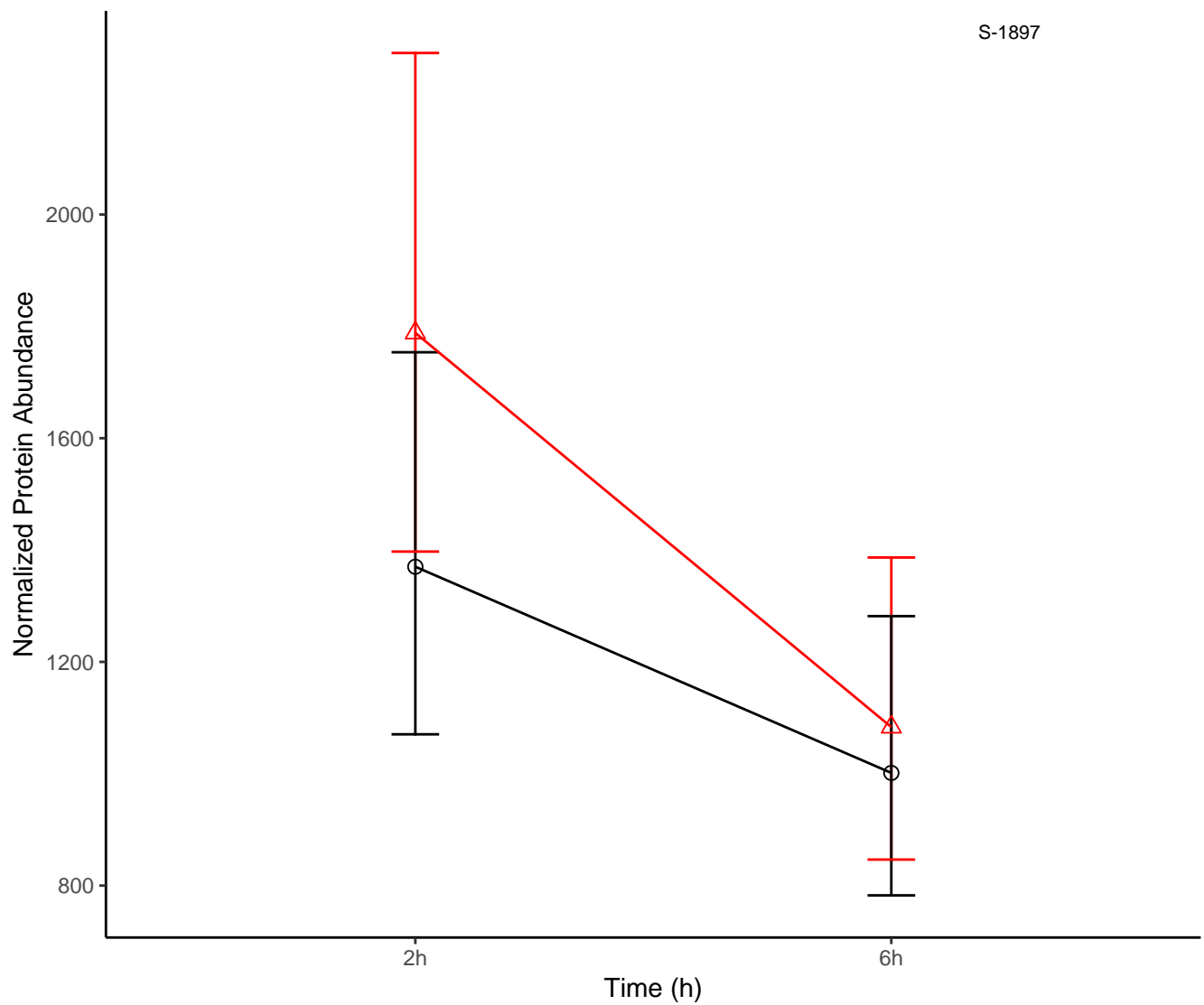
○ TSB-dex

△ TSB



# SSB1\_STAAM

S-1897

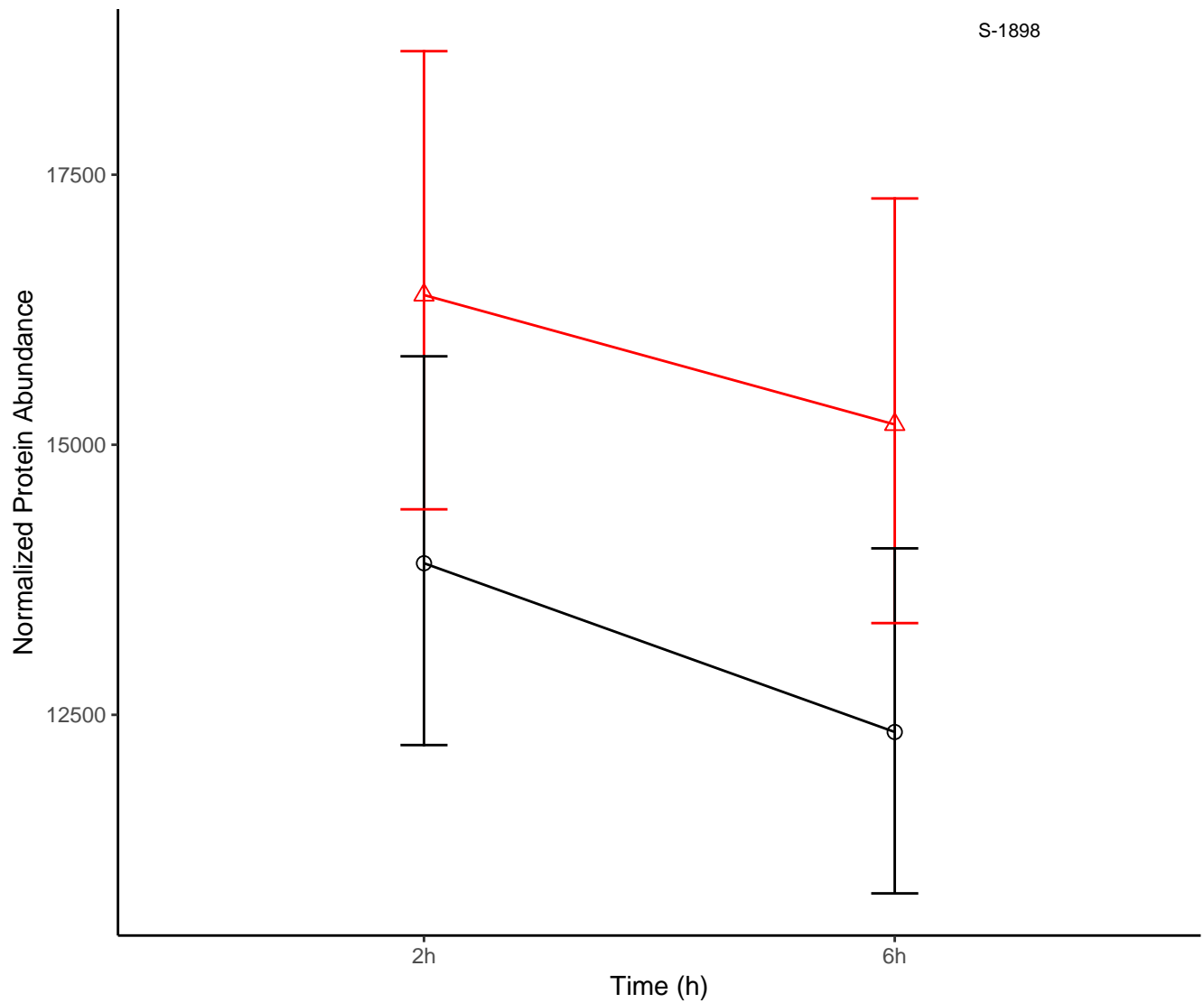


○ TSB-dex

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# SSB2\_STAAM

S-1898

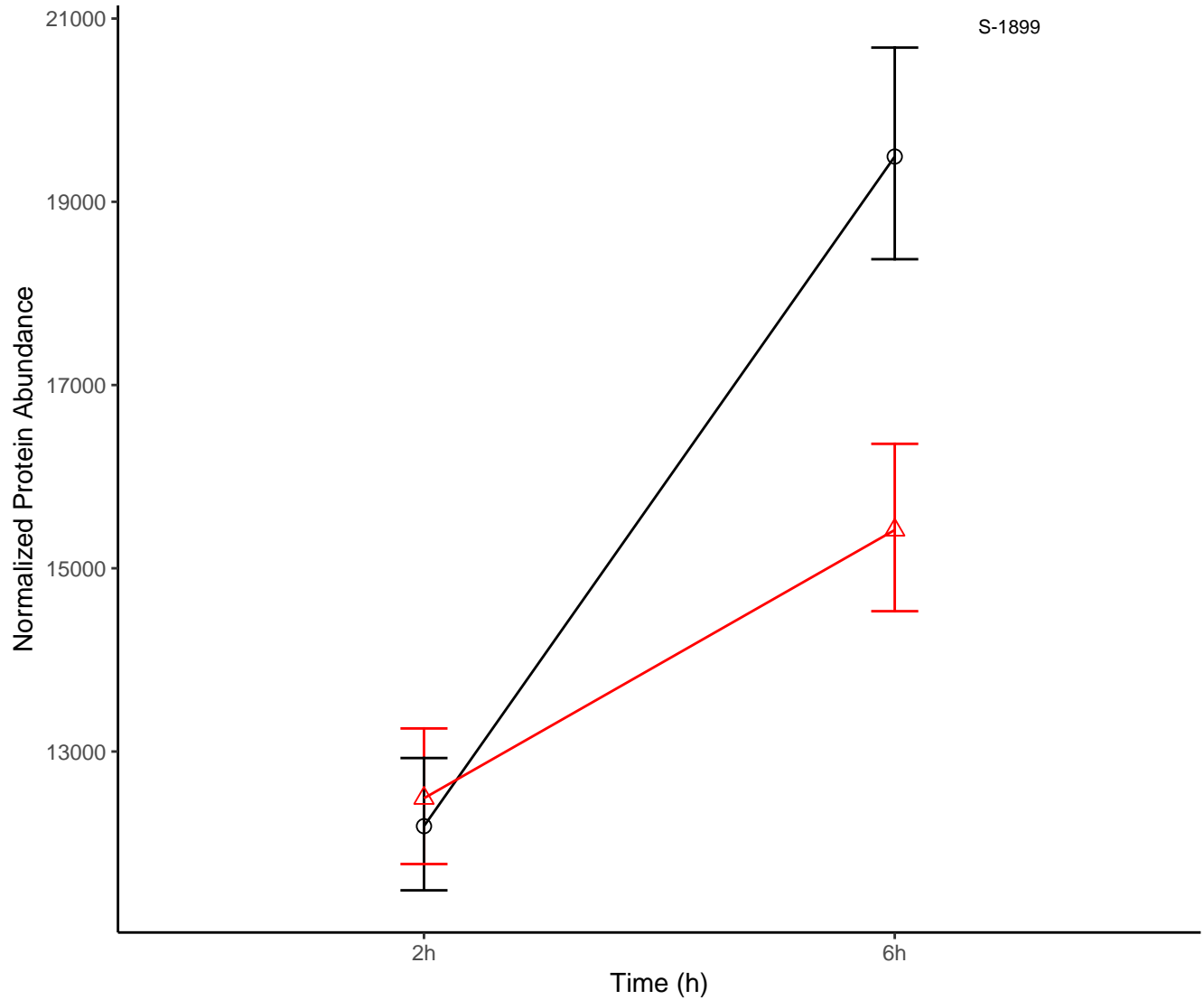


○ TSB-dex

△ TSB

# SUCC\_STAAM

S-1899

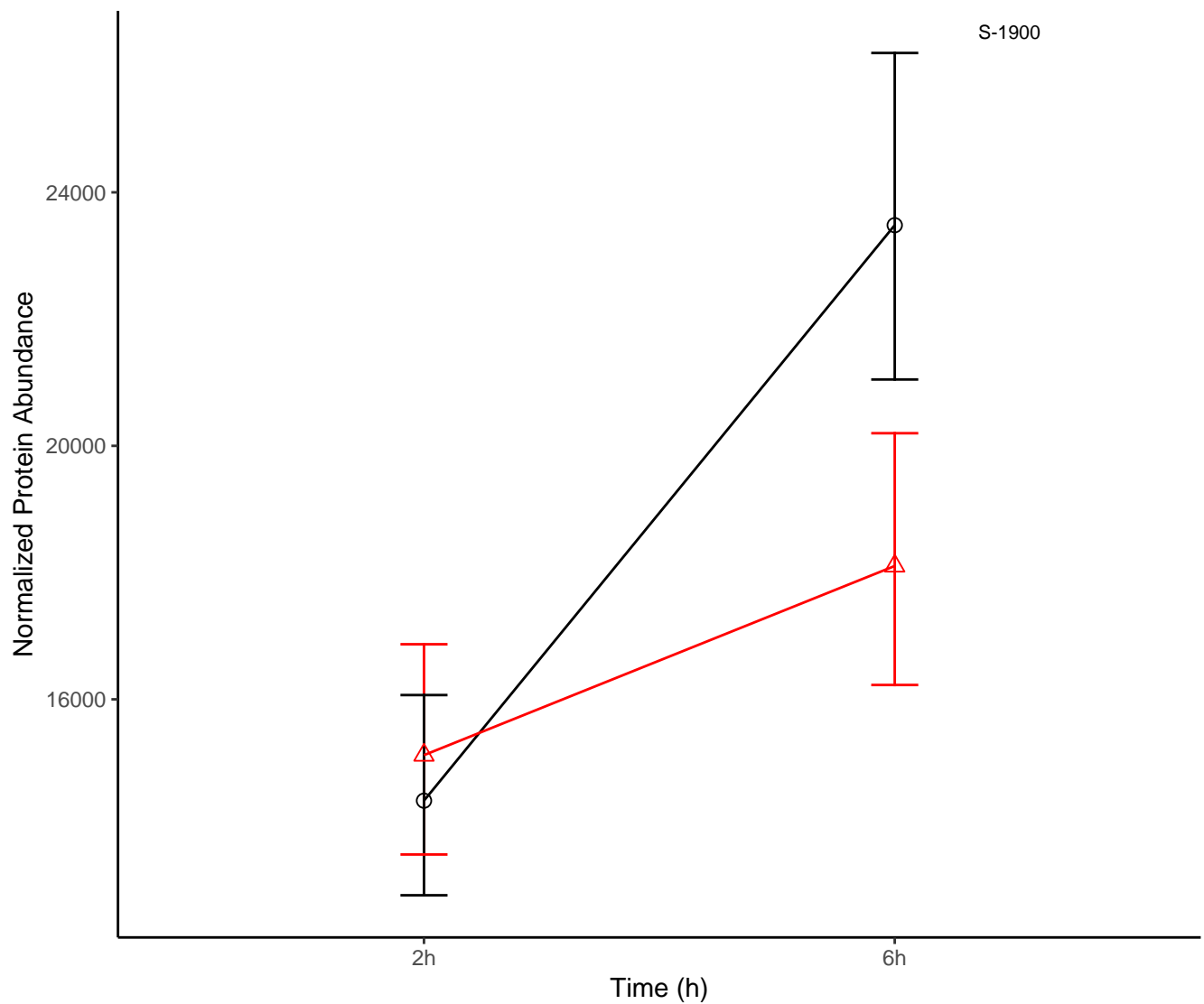


○ TSB-dex

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# SUCD\_STAAM

S-1900

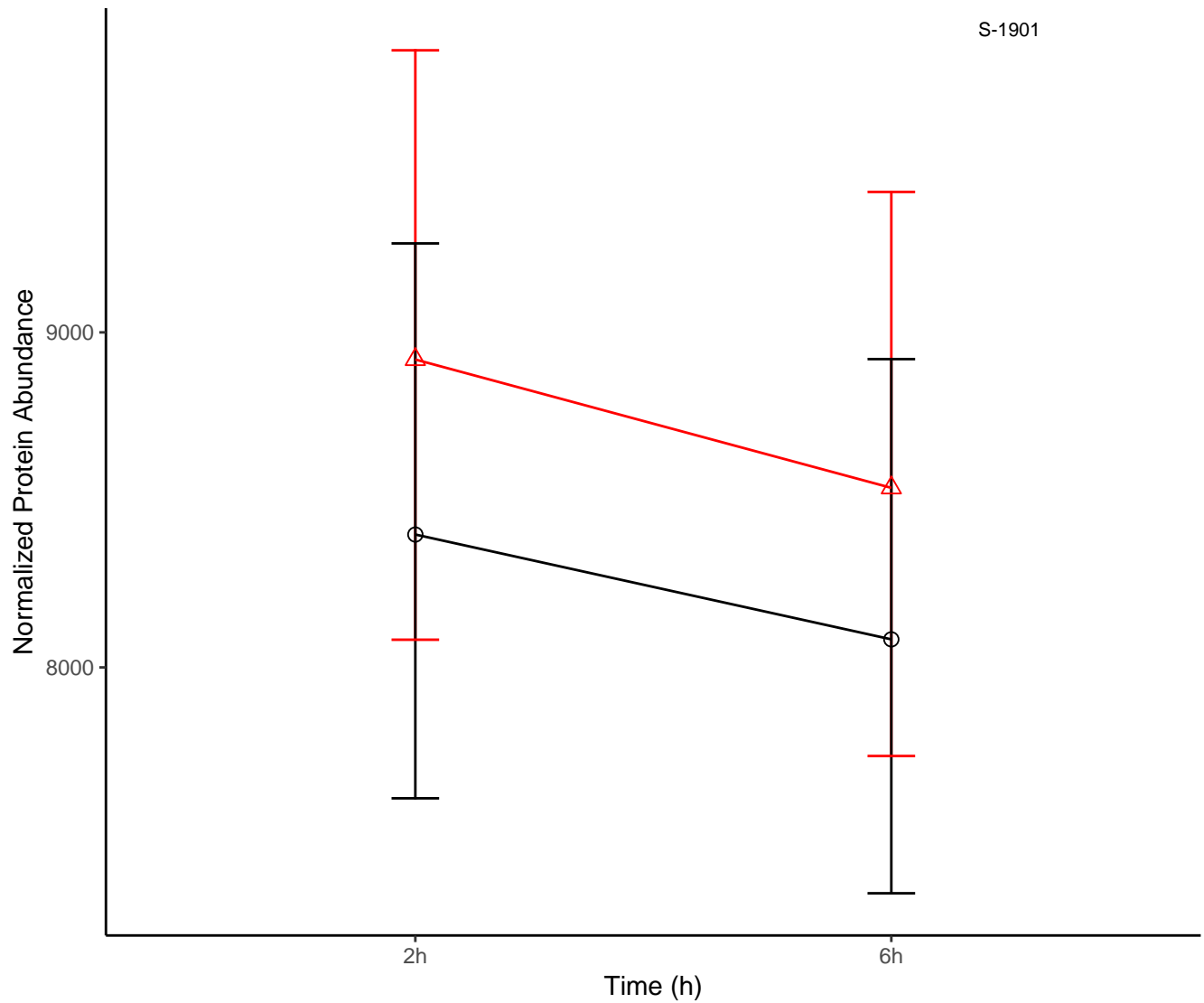


○ TSB-dex

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# SYA\_STAAM

S-1901

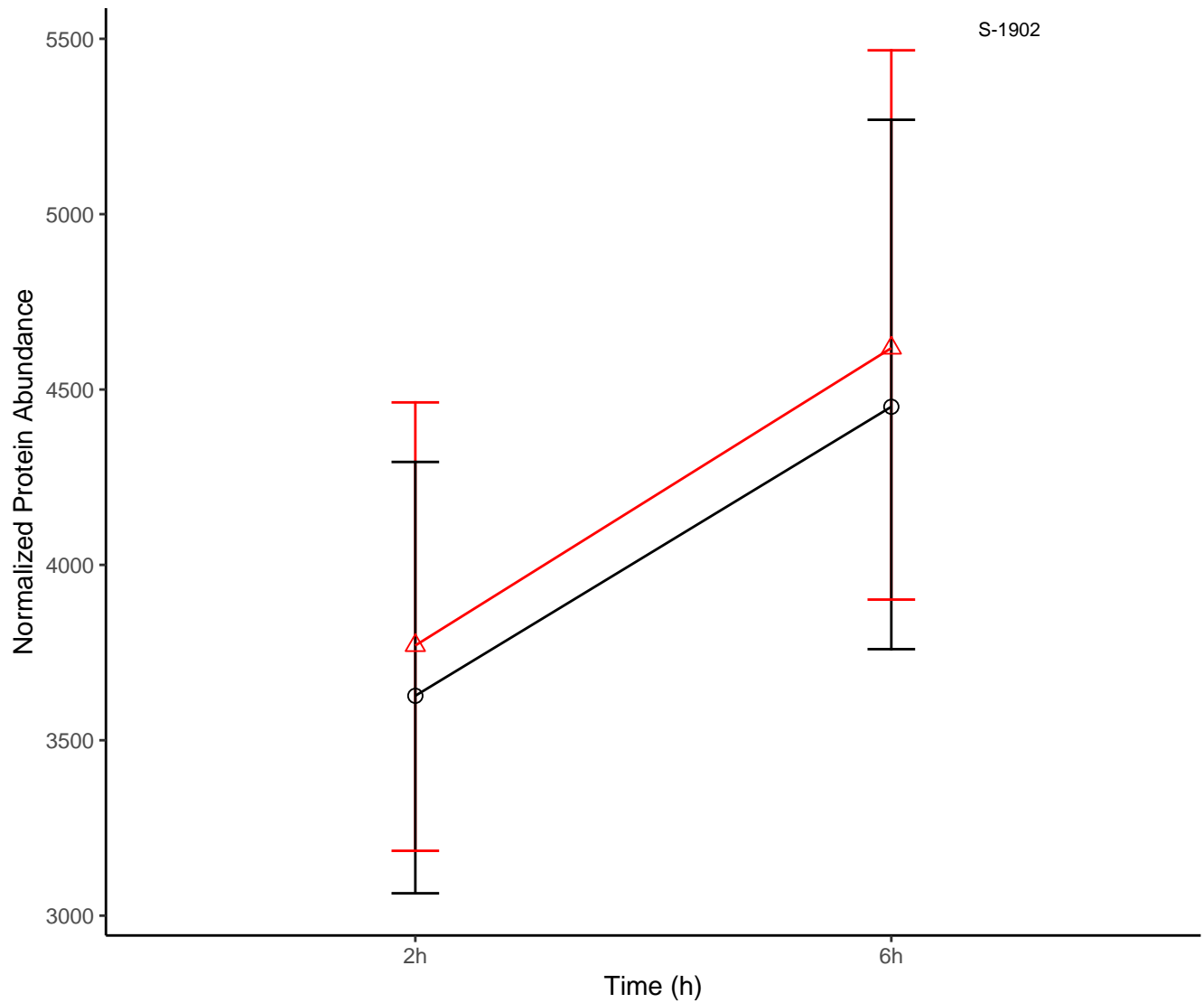


○ TSB-dex

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# SYC\_STAAM

S-1902

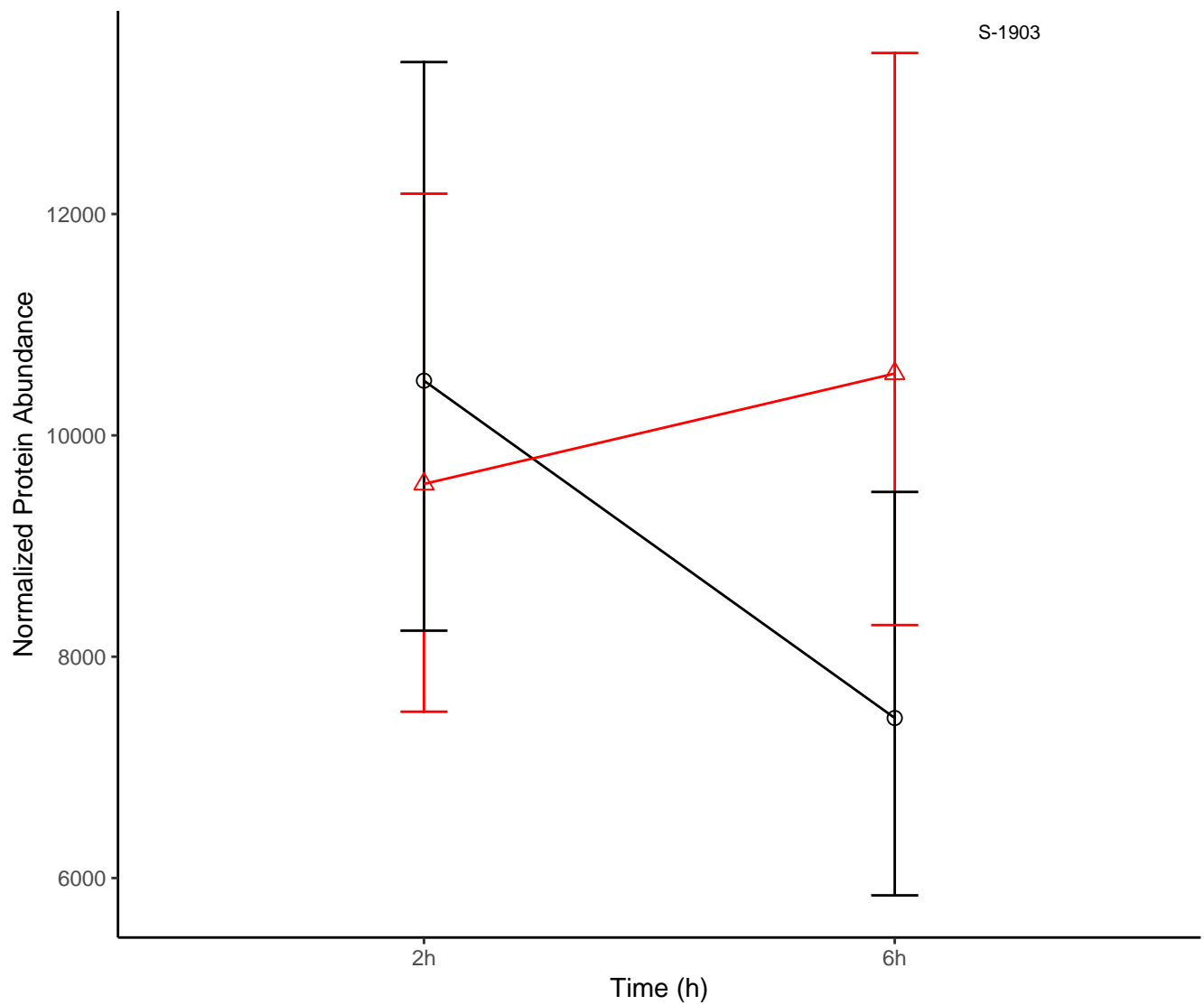


○ TSB-dex

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# SYD\_STAAM

S-1903

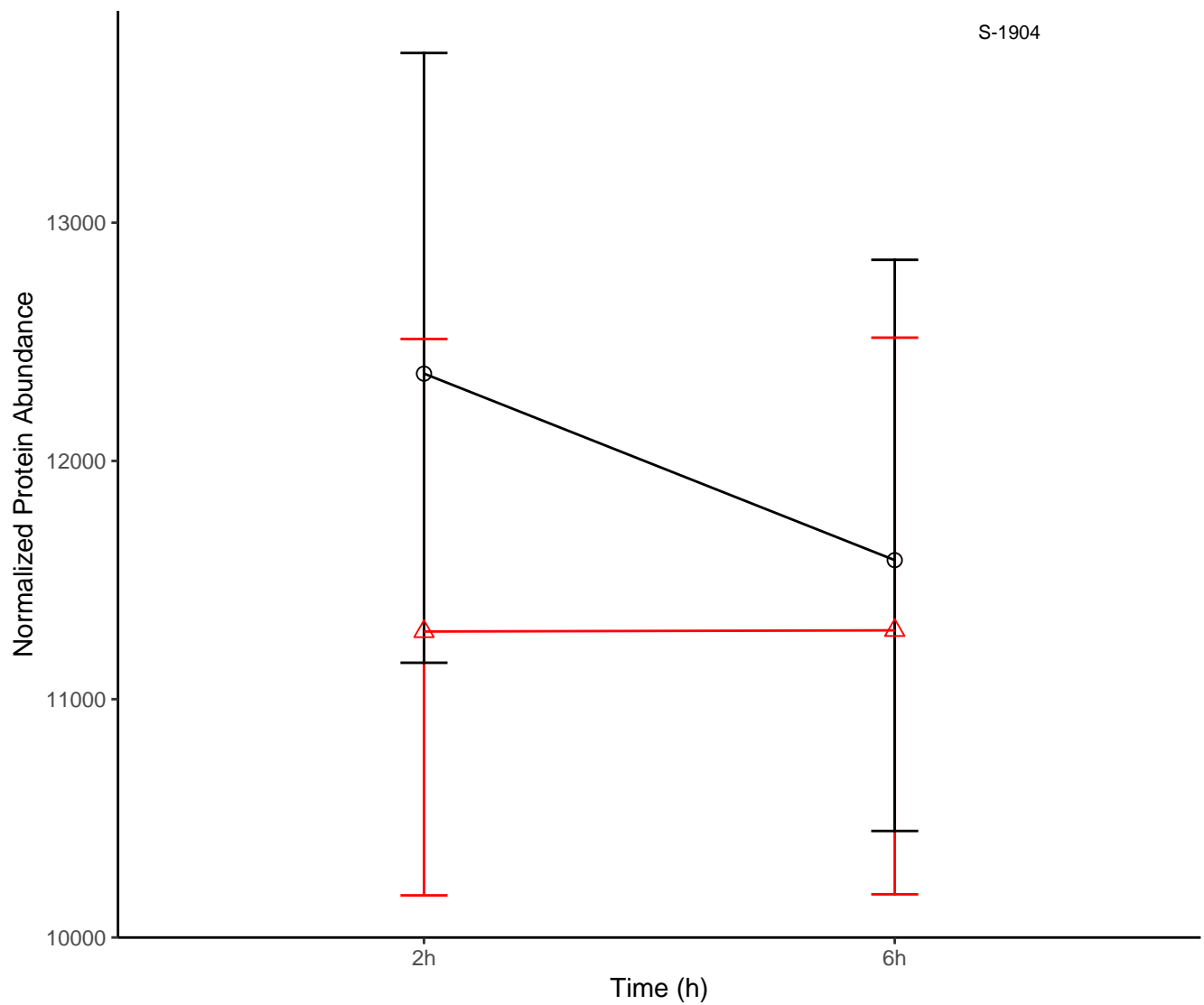


○ TSB-dex

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# SYE\_STAAM

S-1904



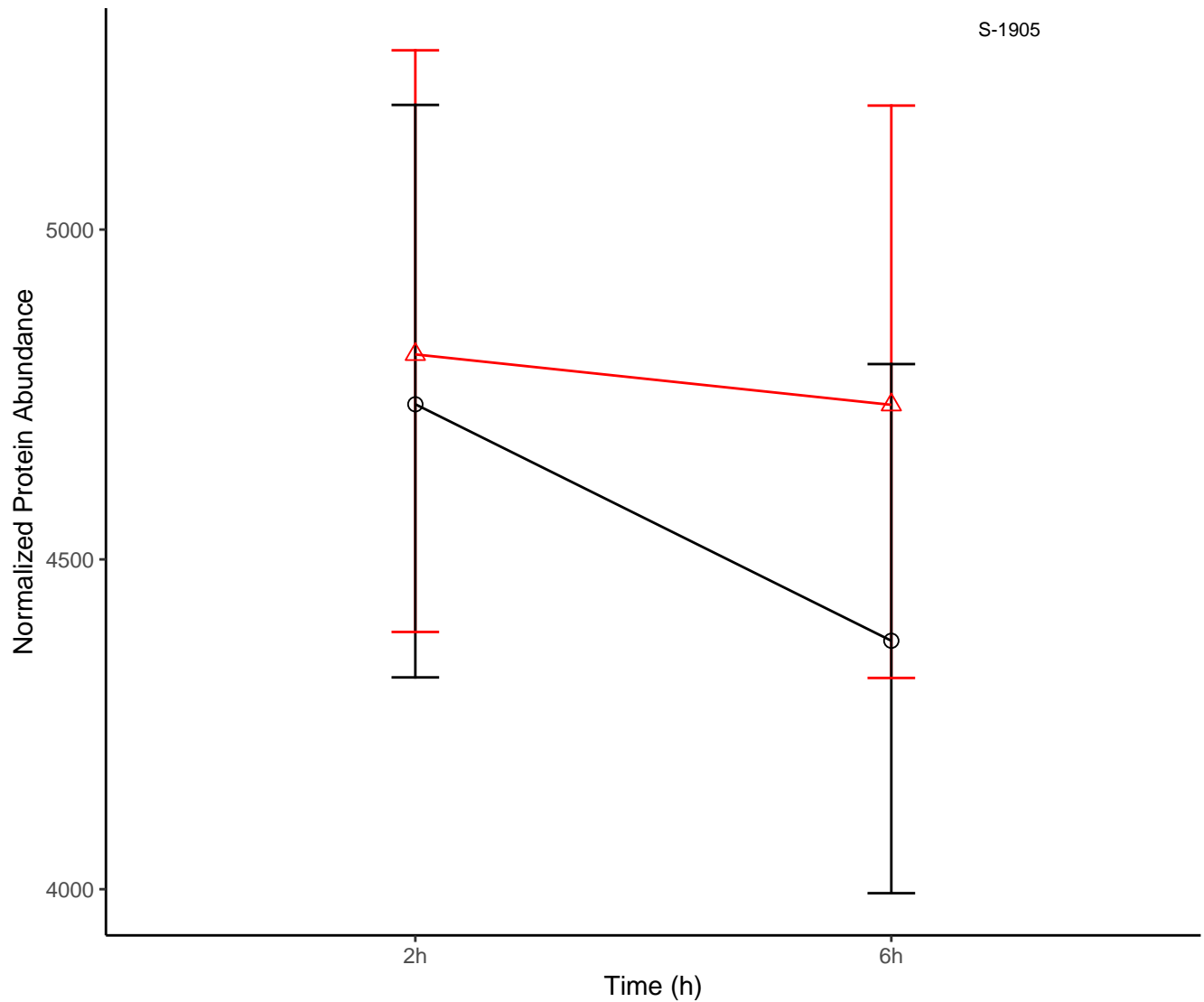
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# SYFB\_STAAM

S-1905

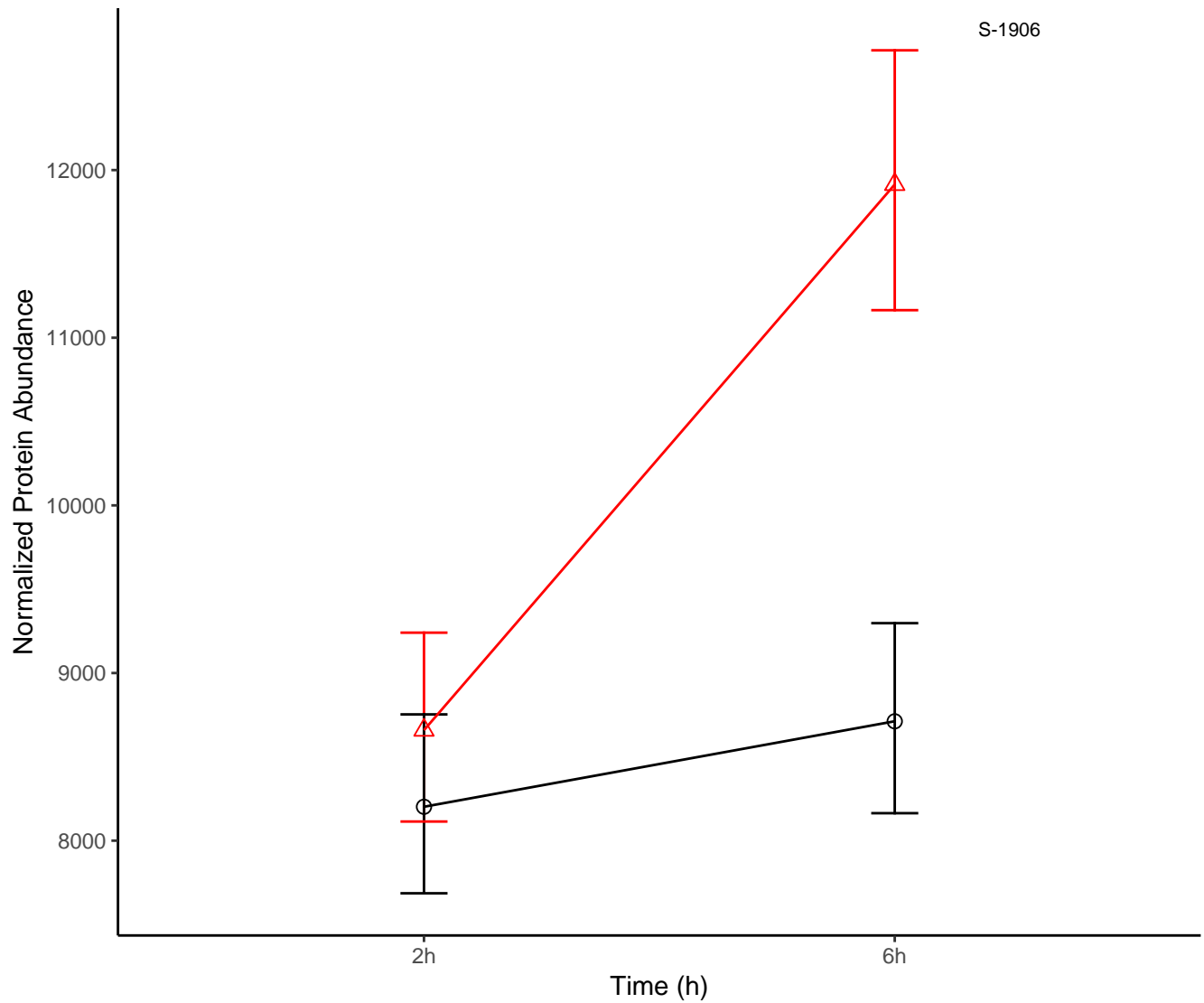


○ TSB-dex

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# SYG\_STAAM

S-1906

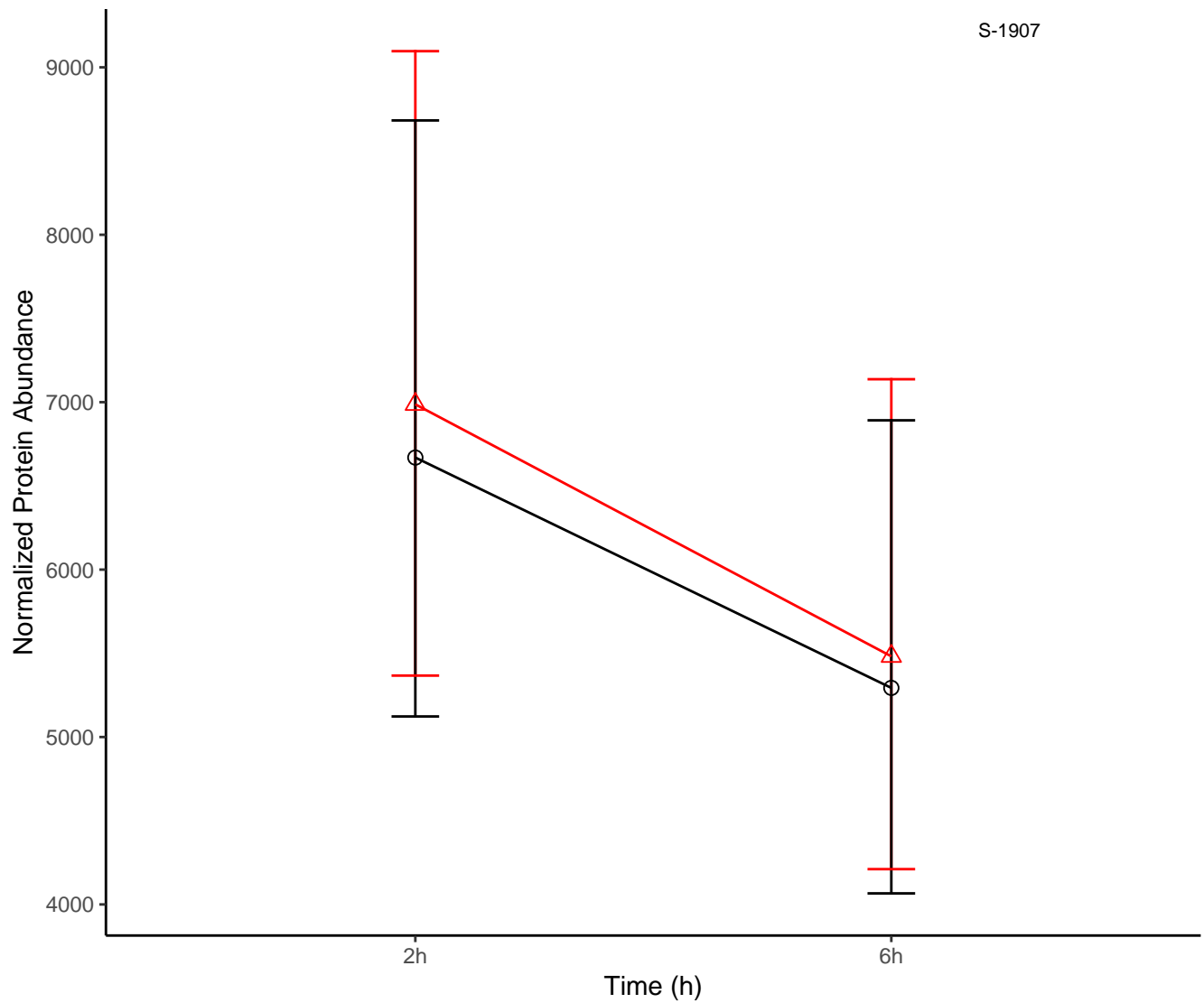


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# SYH\_STAAM

S-1907

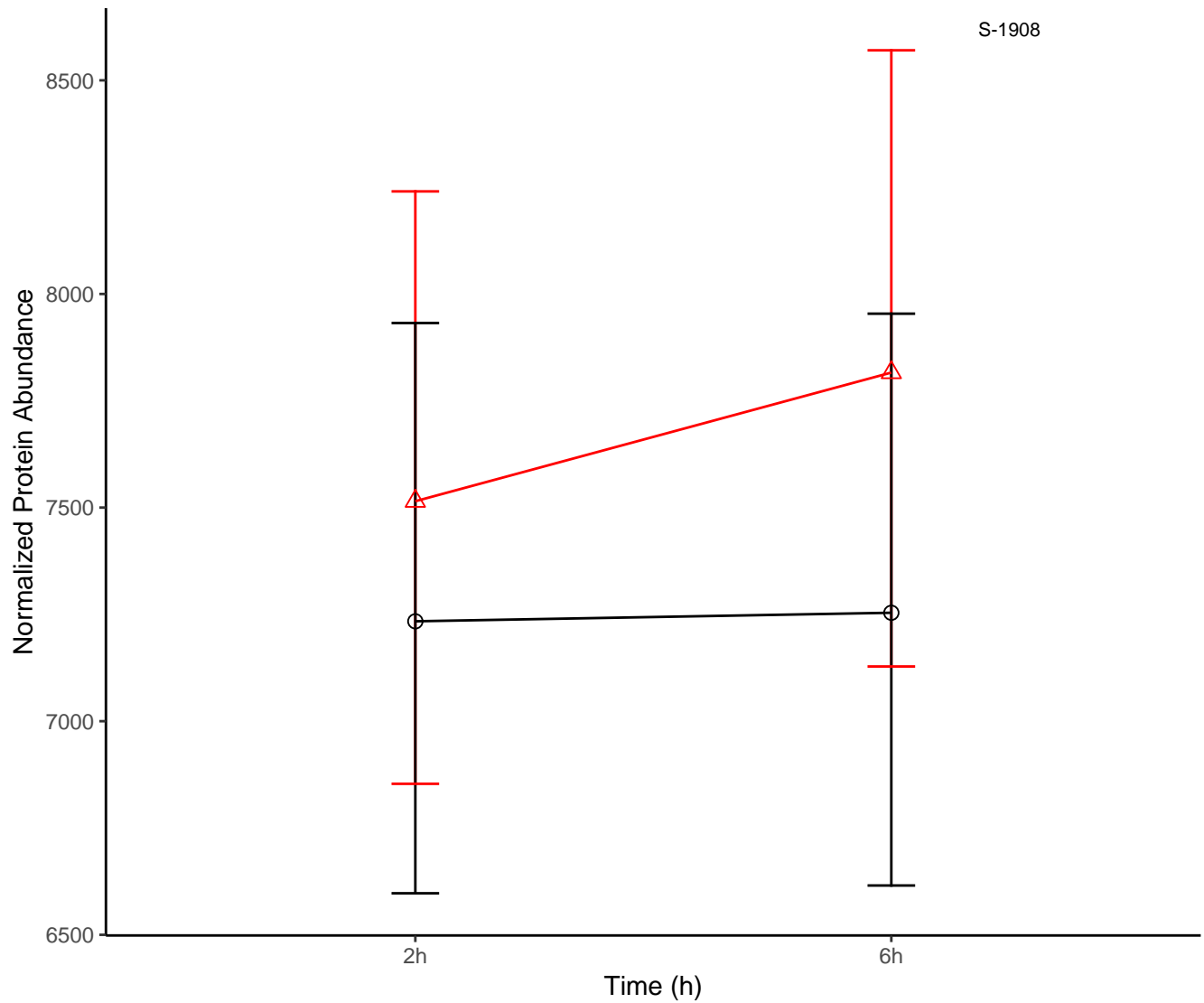


○ TSB-dex

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# SYI\_STAAM

S-1908

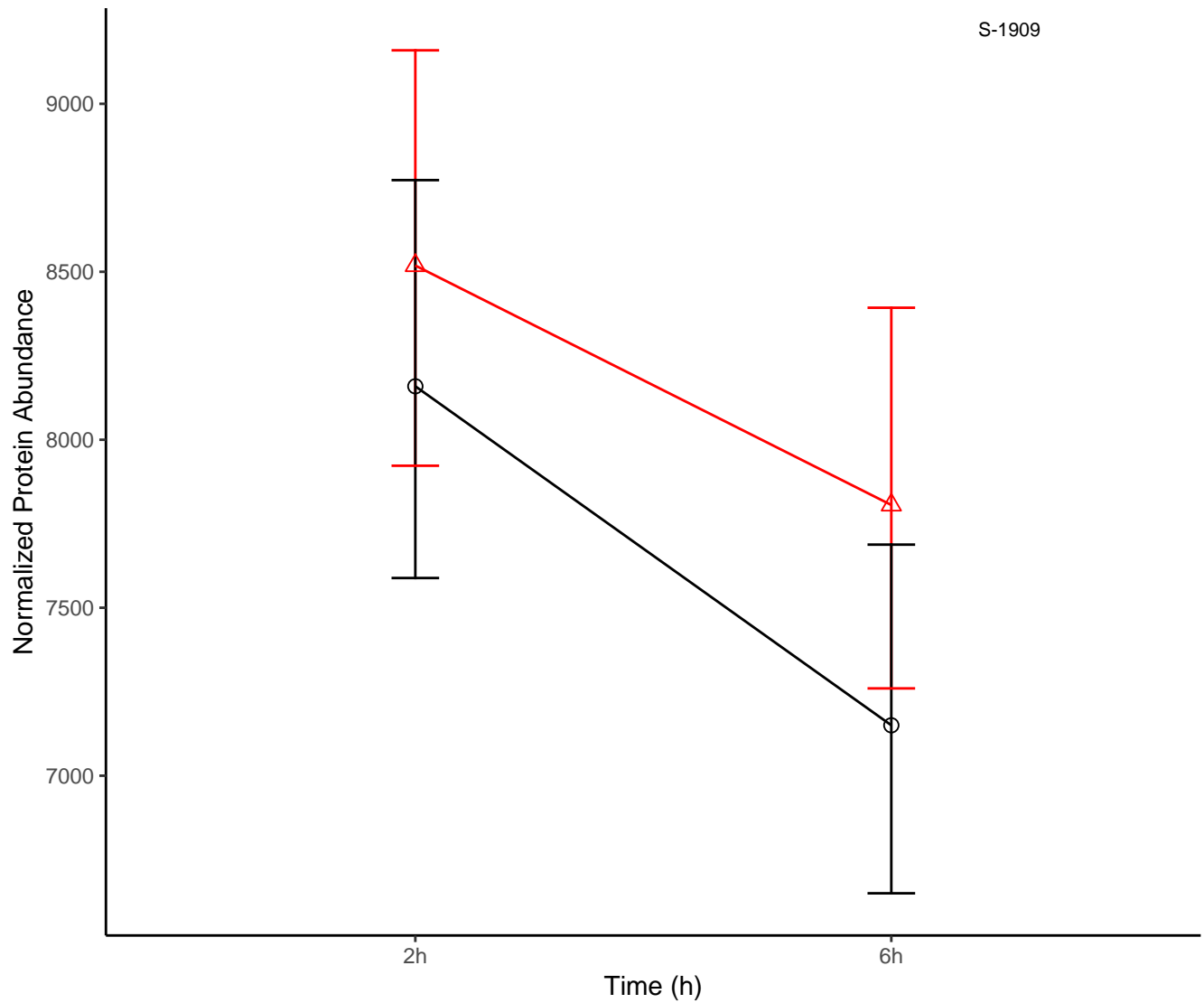


○ TSB-dex

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# SYK\_STAAM

S-1909

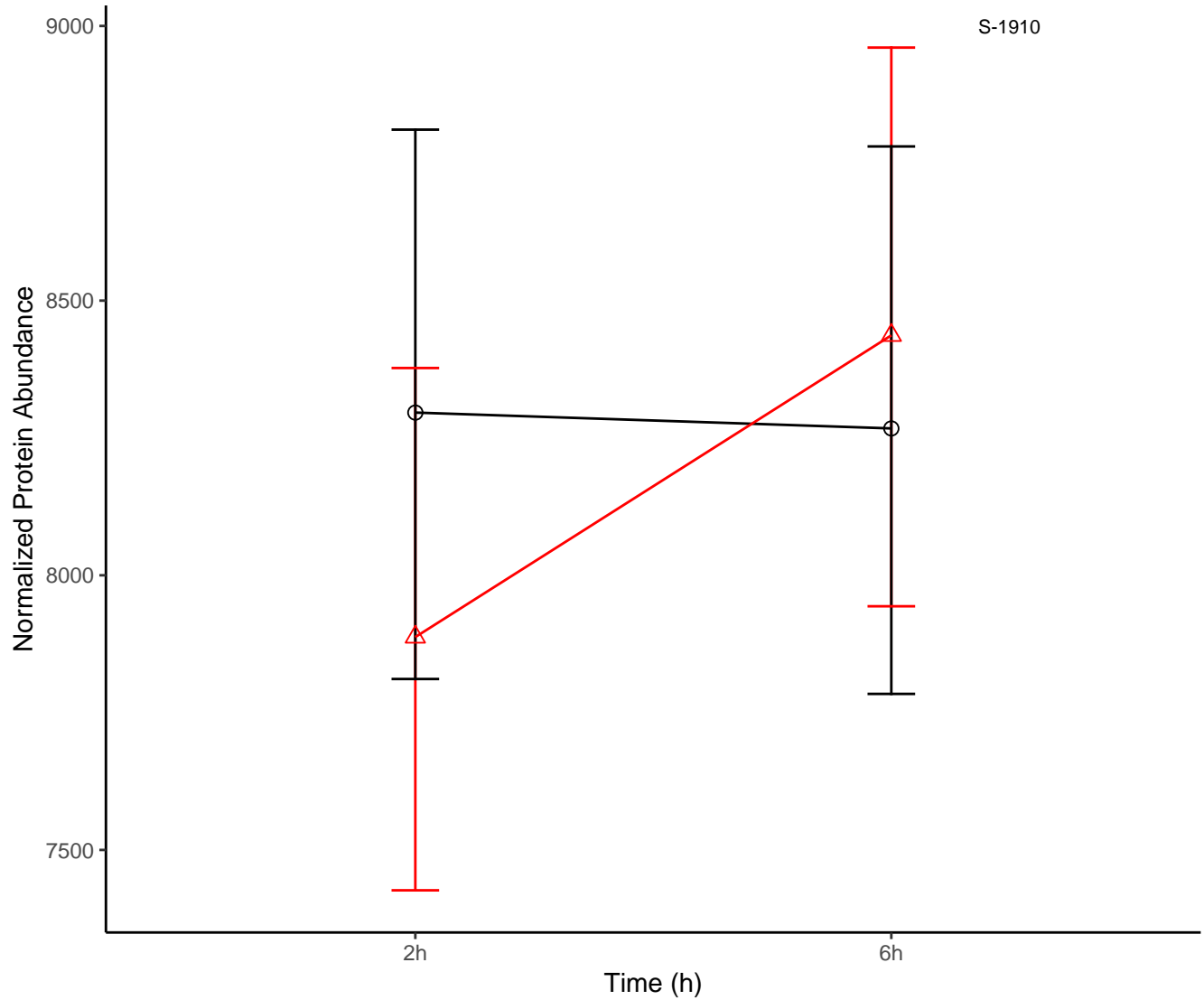


○ TSB-dex

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# SYM\_STAAM

S-1910

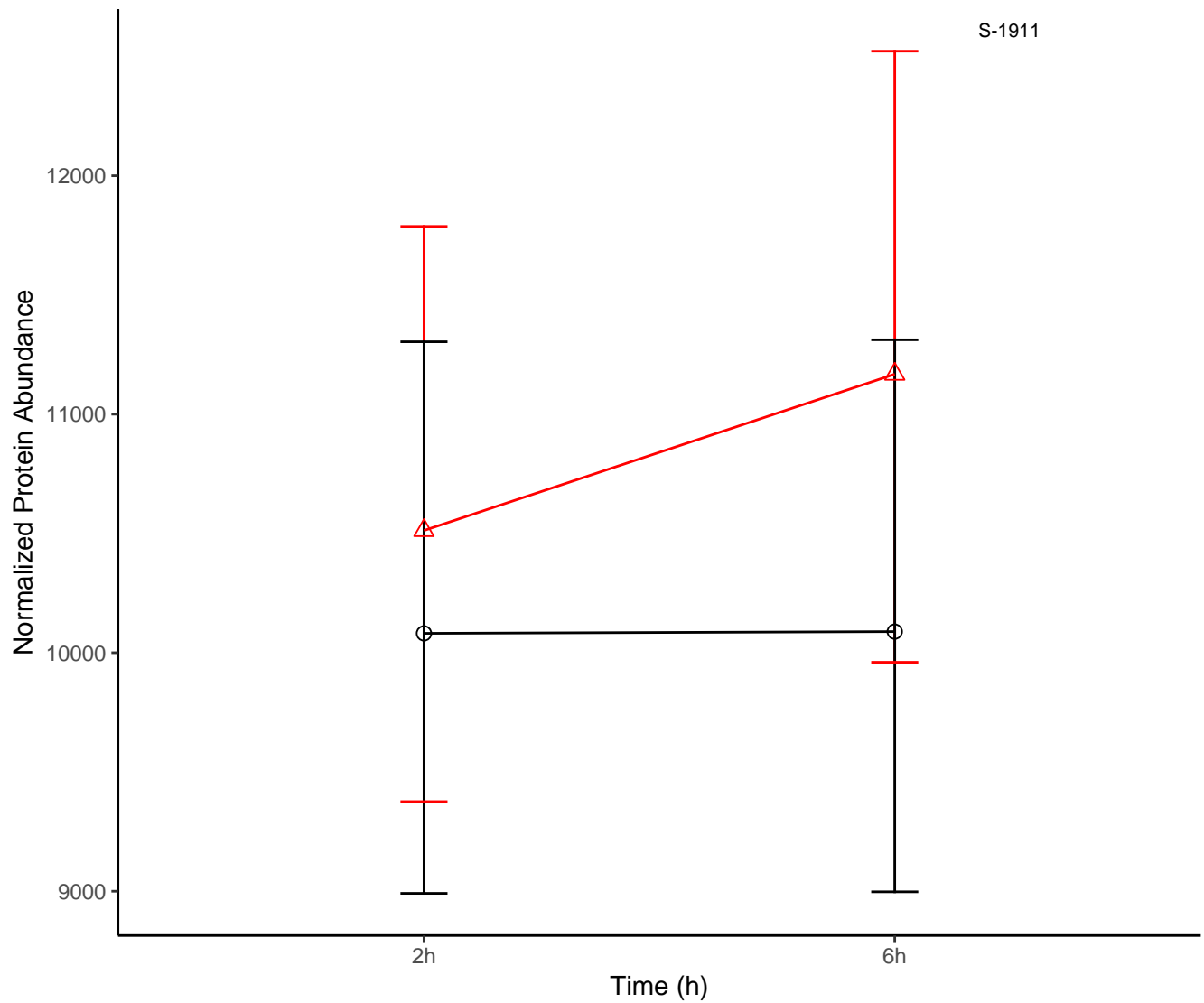


○ TSB-dex

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# SYN\_STAAM

S-1911

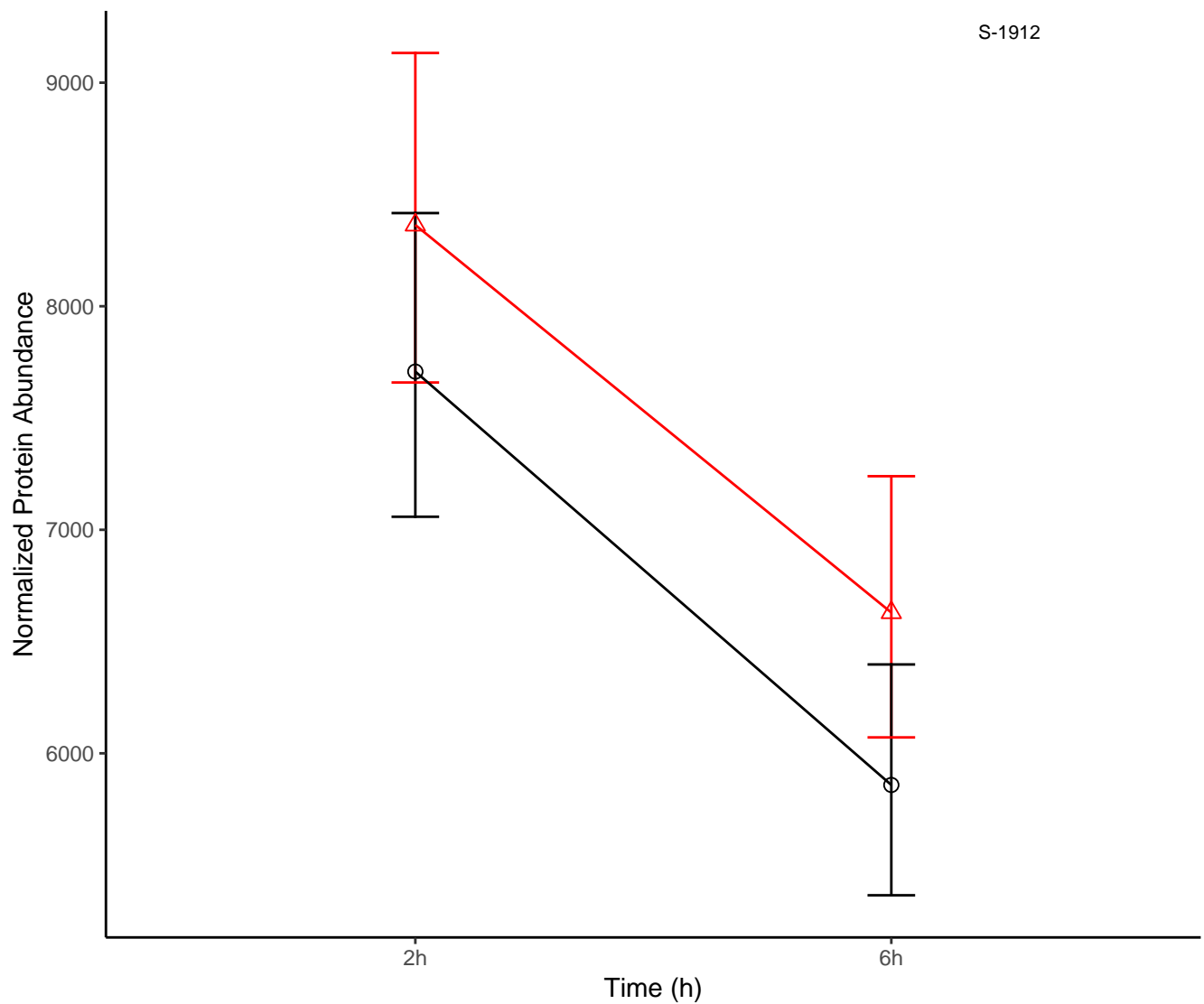


○ TSB-dex

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# SYP\_STAAM

S-1912



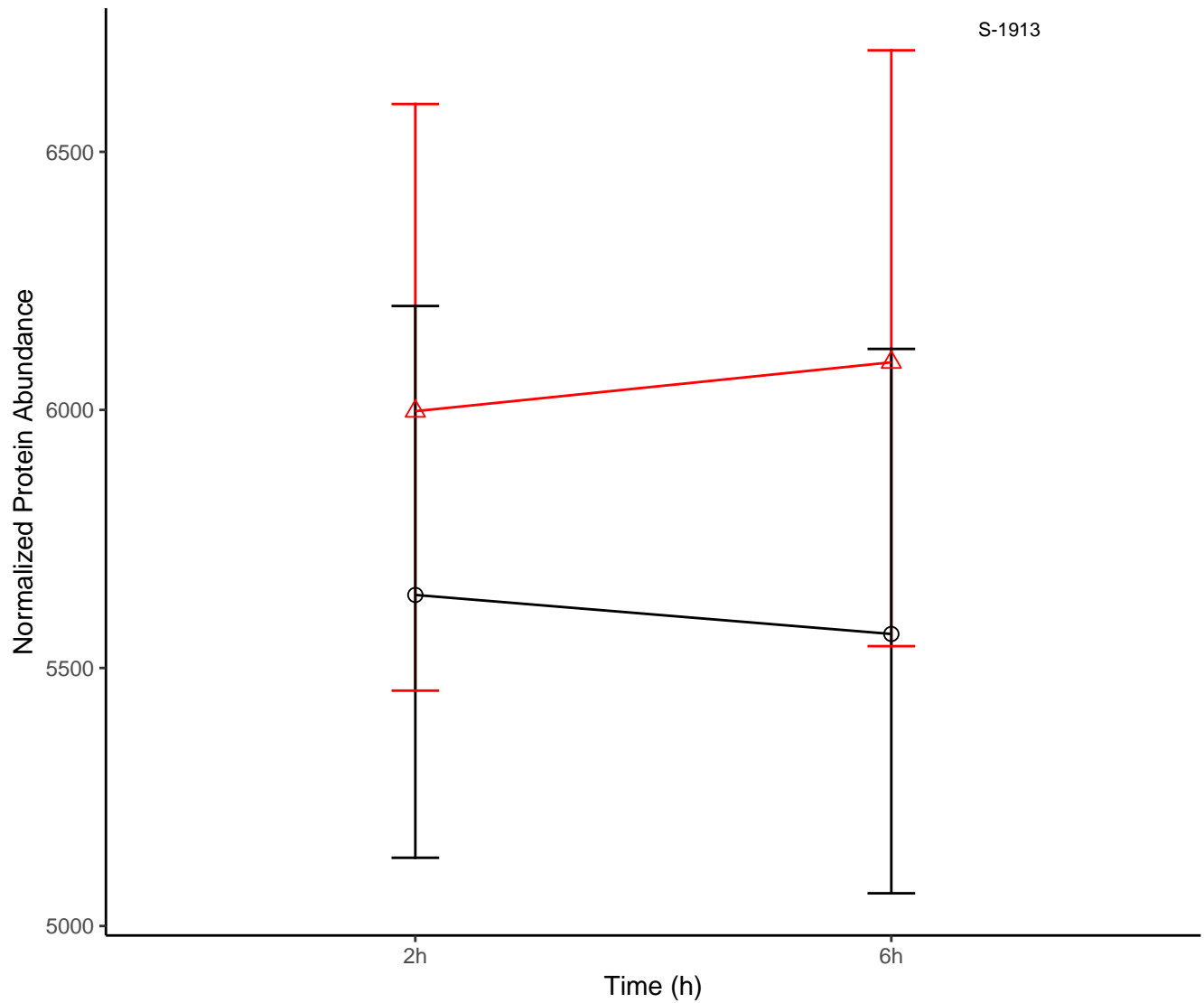
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# SYR\_STAAM

S-1913

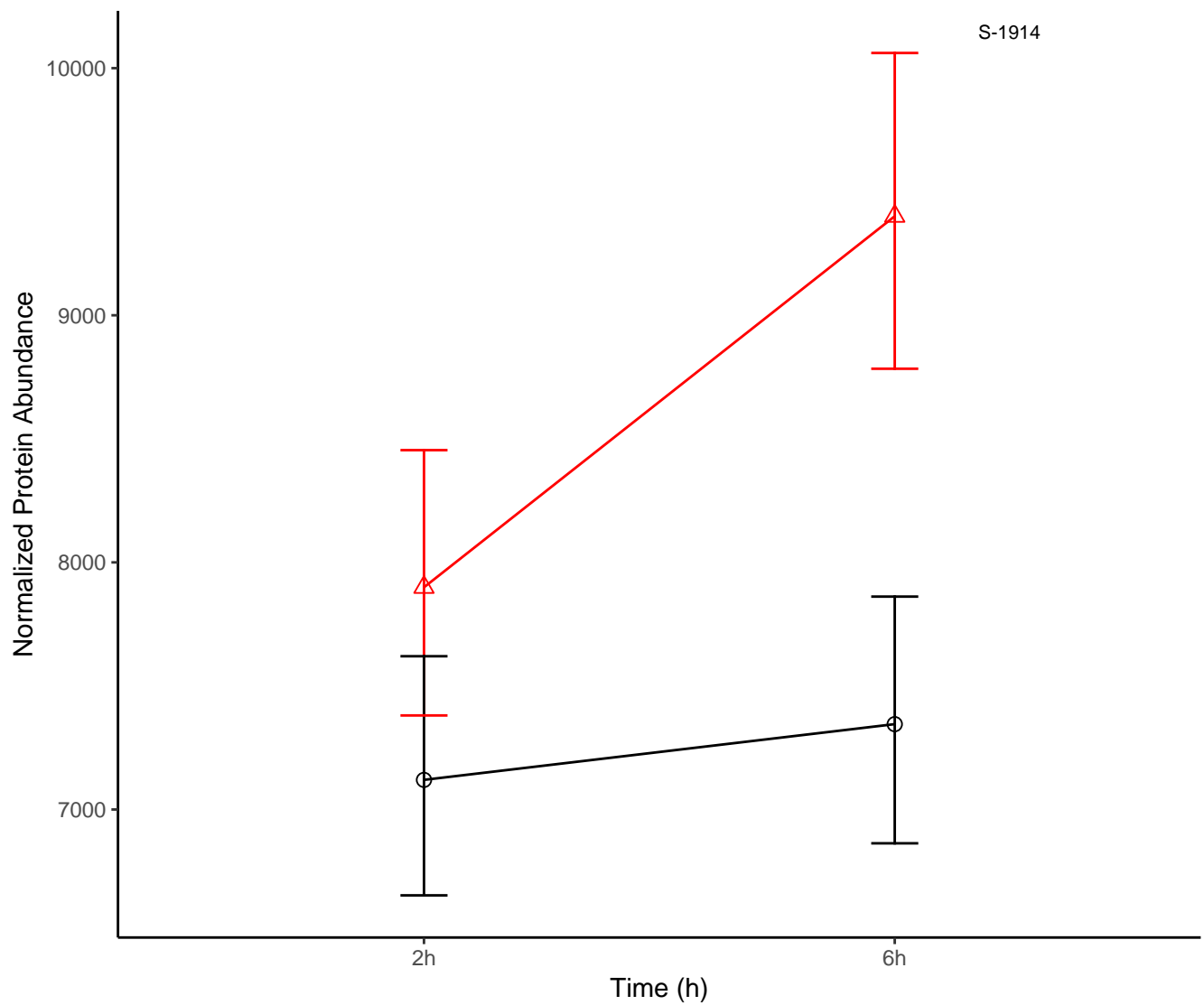


○ TSB-dex

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# SYS\_STAAM

S-1914

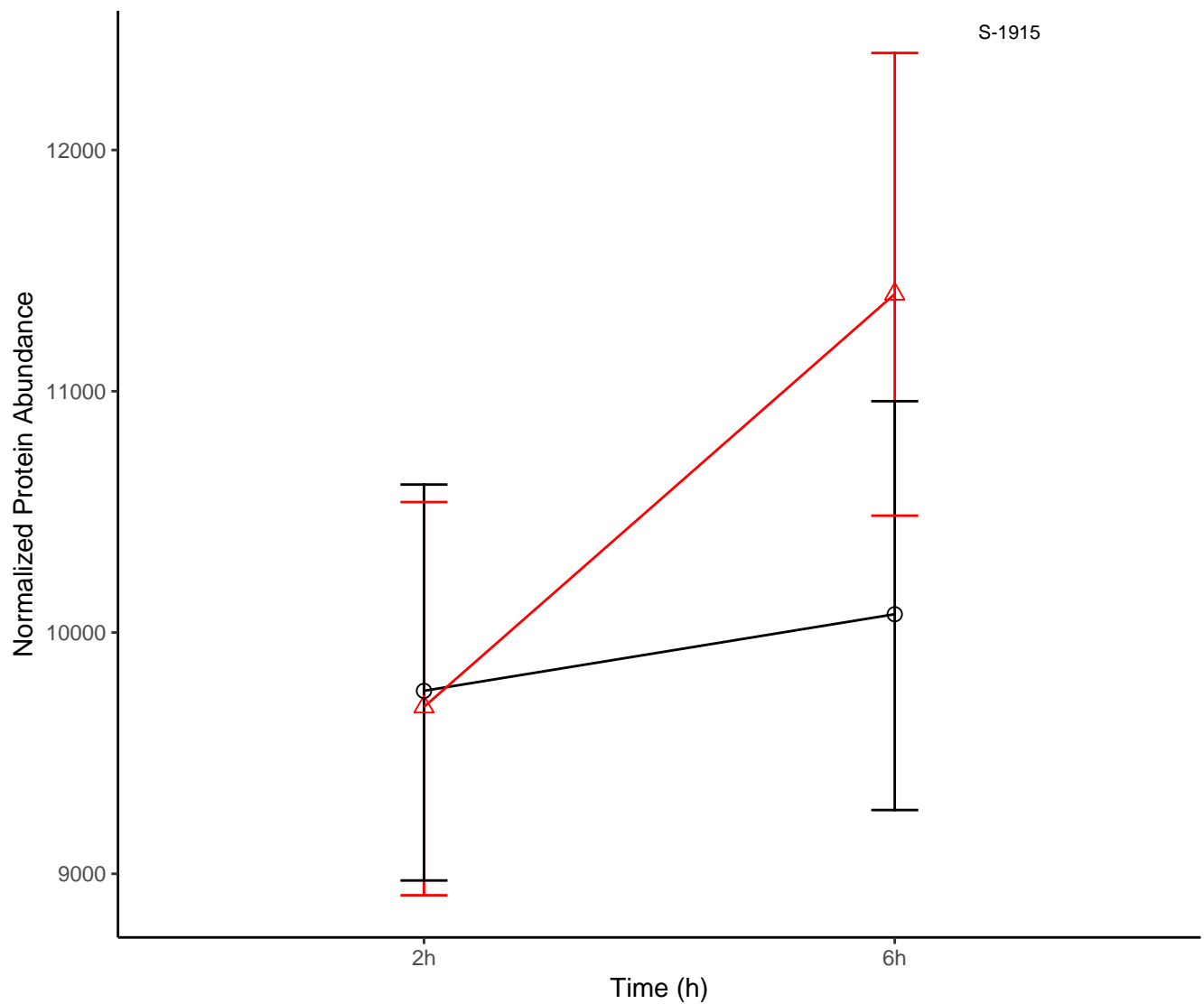


○ TSB-dex

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# SYT\_STAAM

S-1915

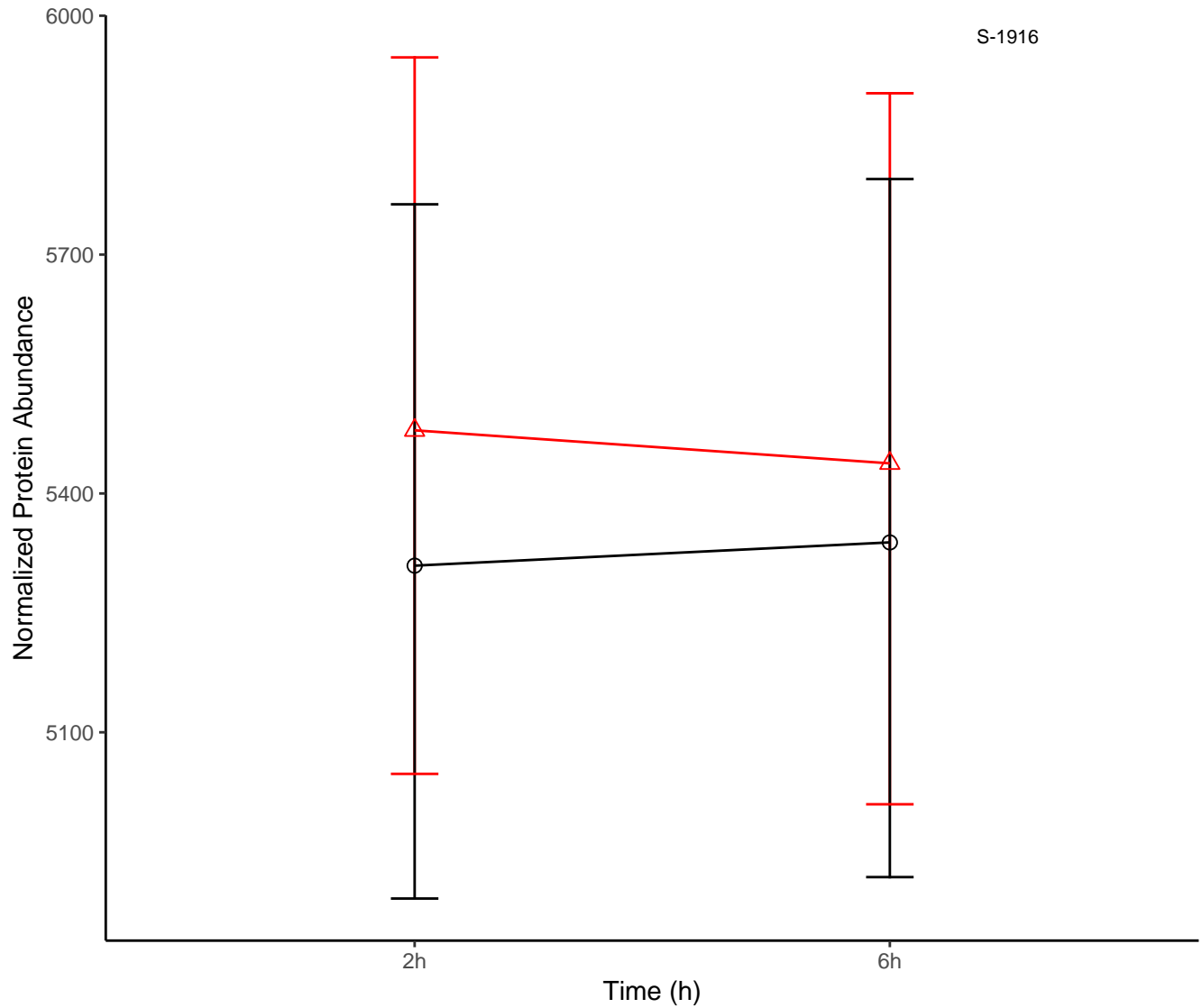


○ TSB-dex

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# SYV\_STAAM

S-1916

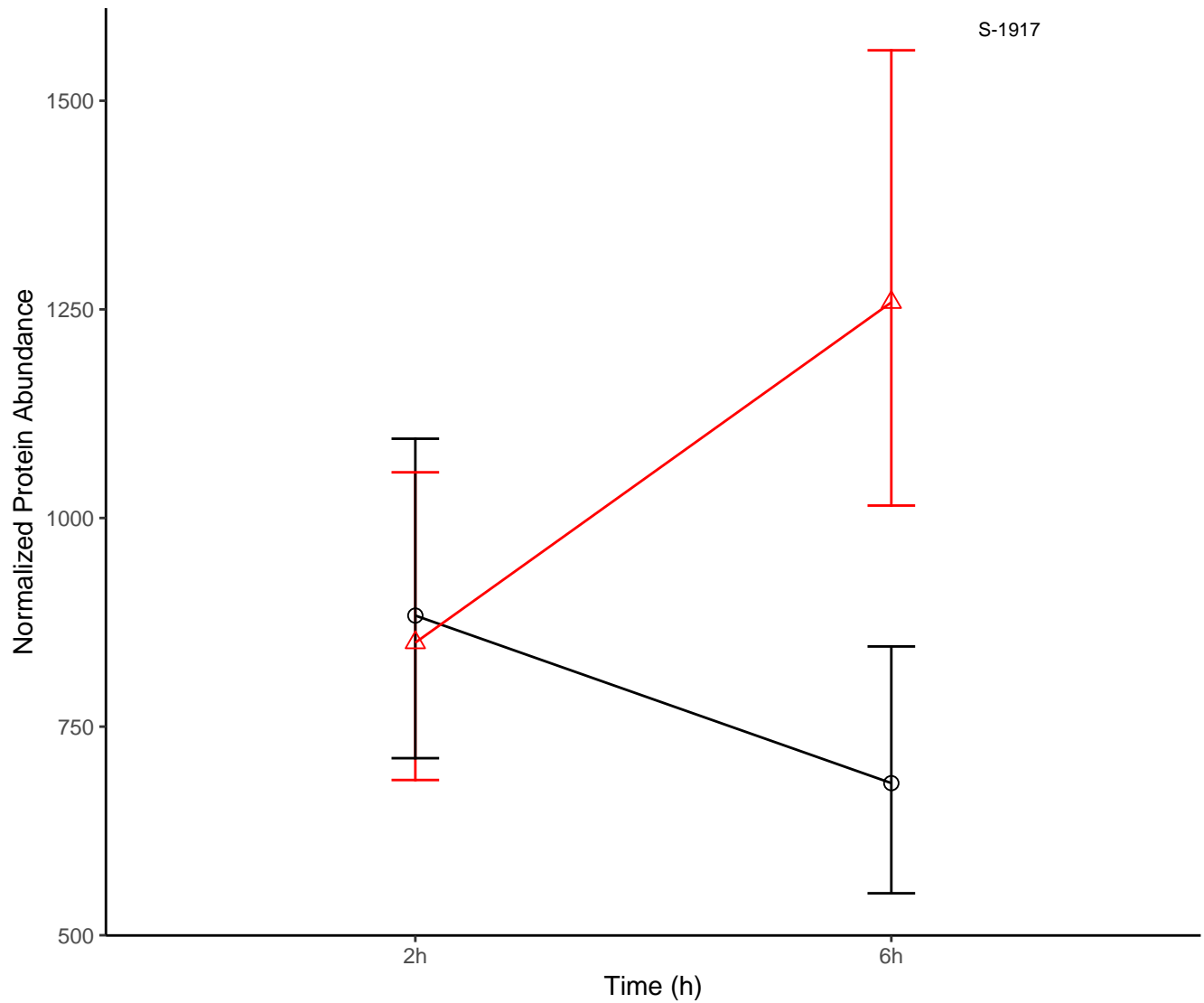


○ TSB-dex

△ TSB

# SYW\_STAAM

S-1917

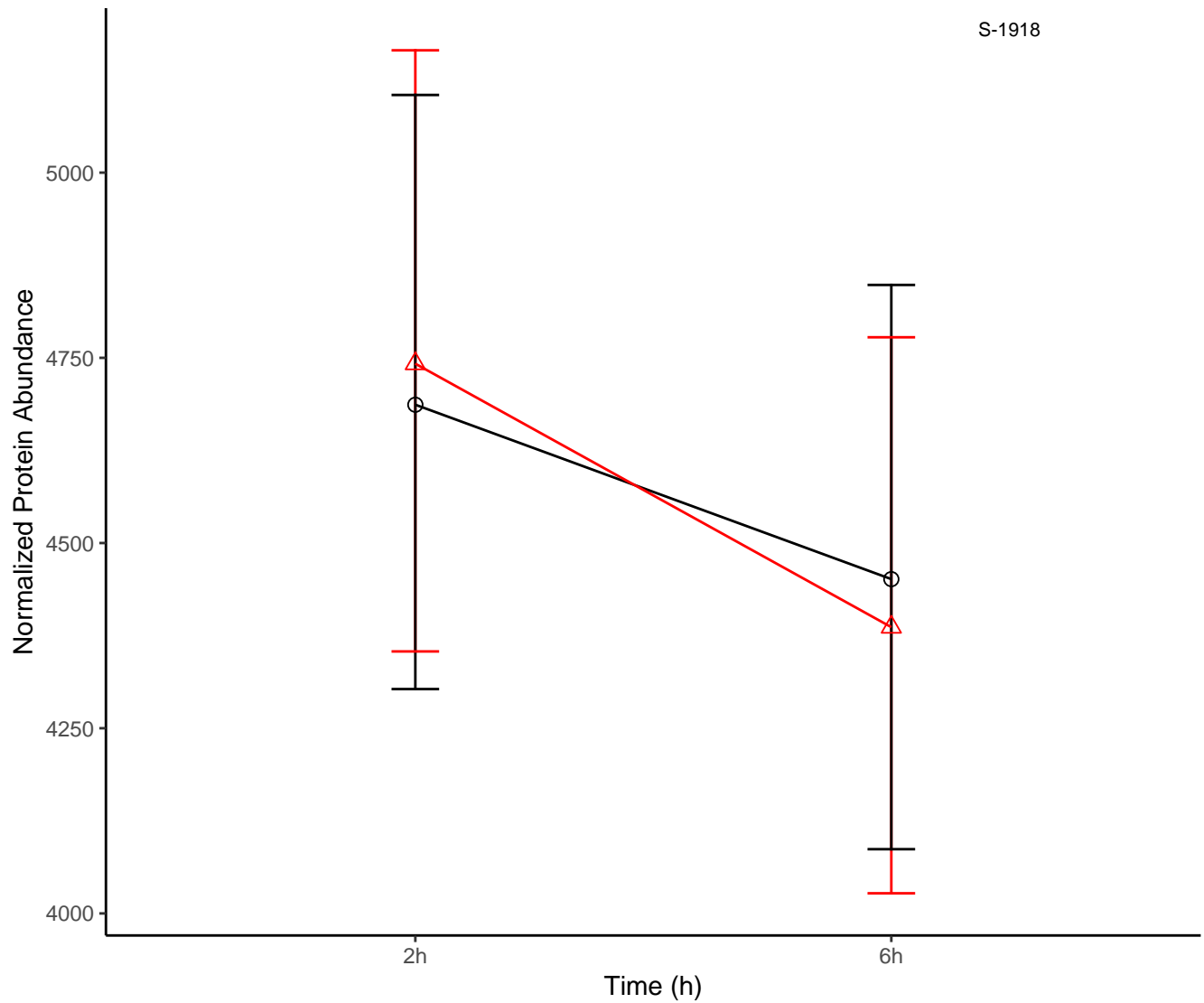


○ TSB-dex

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# SYT\_STAAM

S-1918

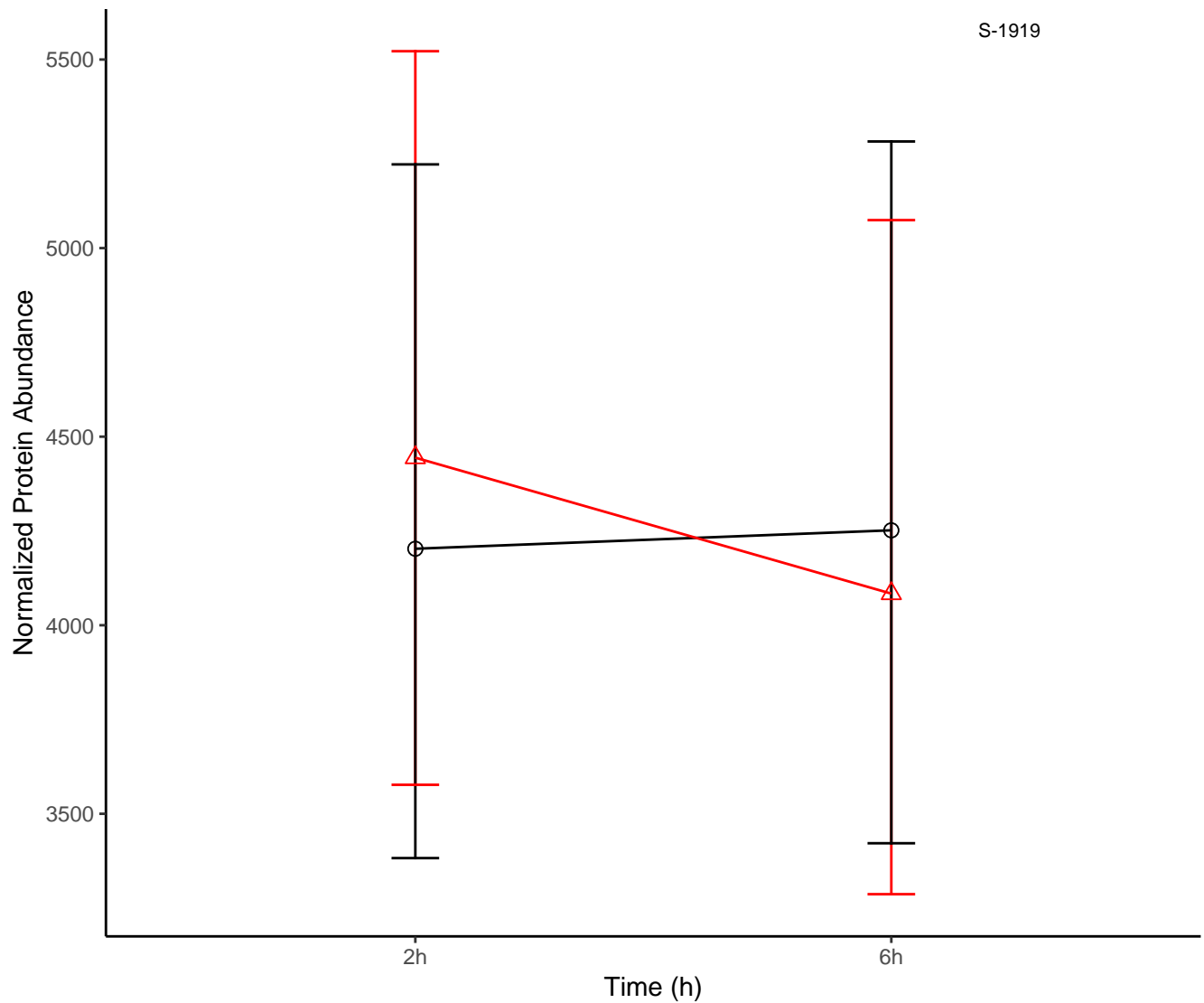


○ TSB-dex

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# T431\_STAAM

S-1919

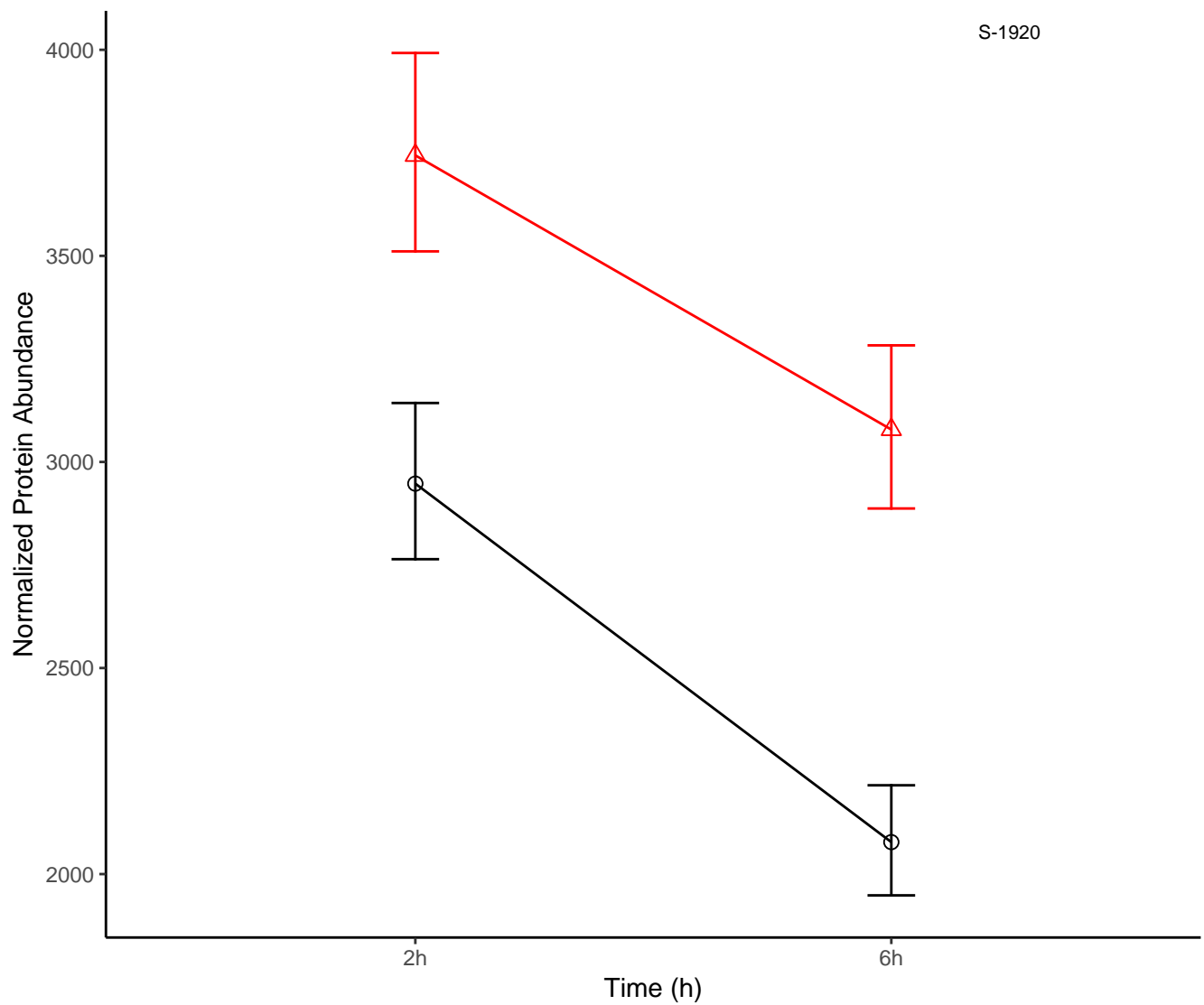


○ TSB-dex

△ TSB

# TADA\_STAAM

S-1920



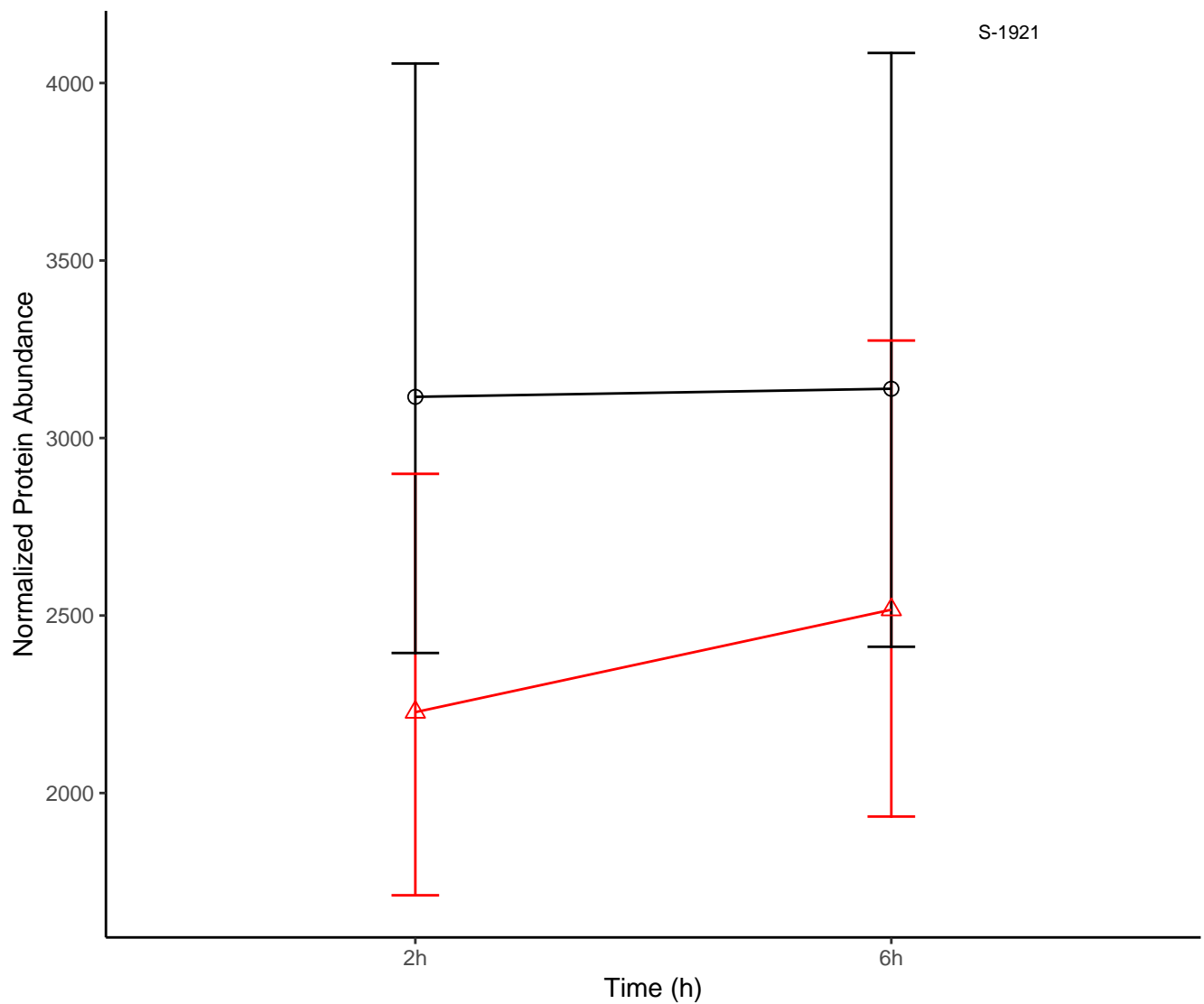
○ TSB-dex

△ TSB



# TAGA\_STAAM

S-1921

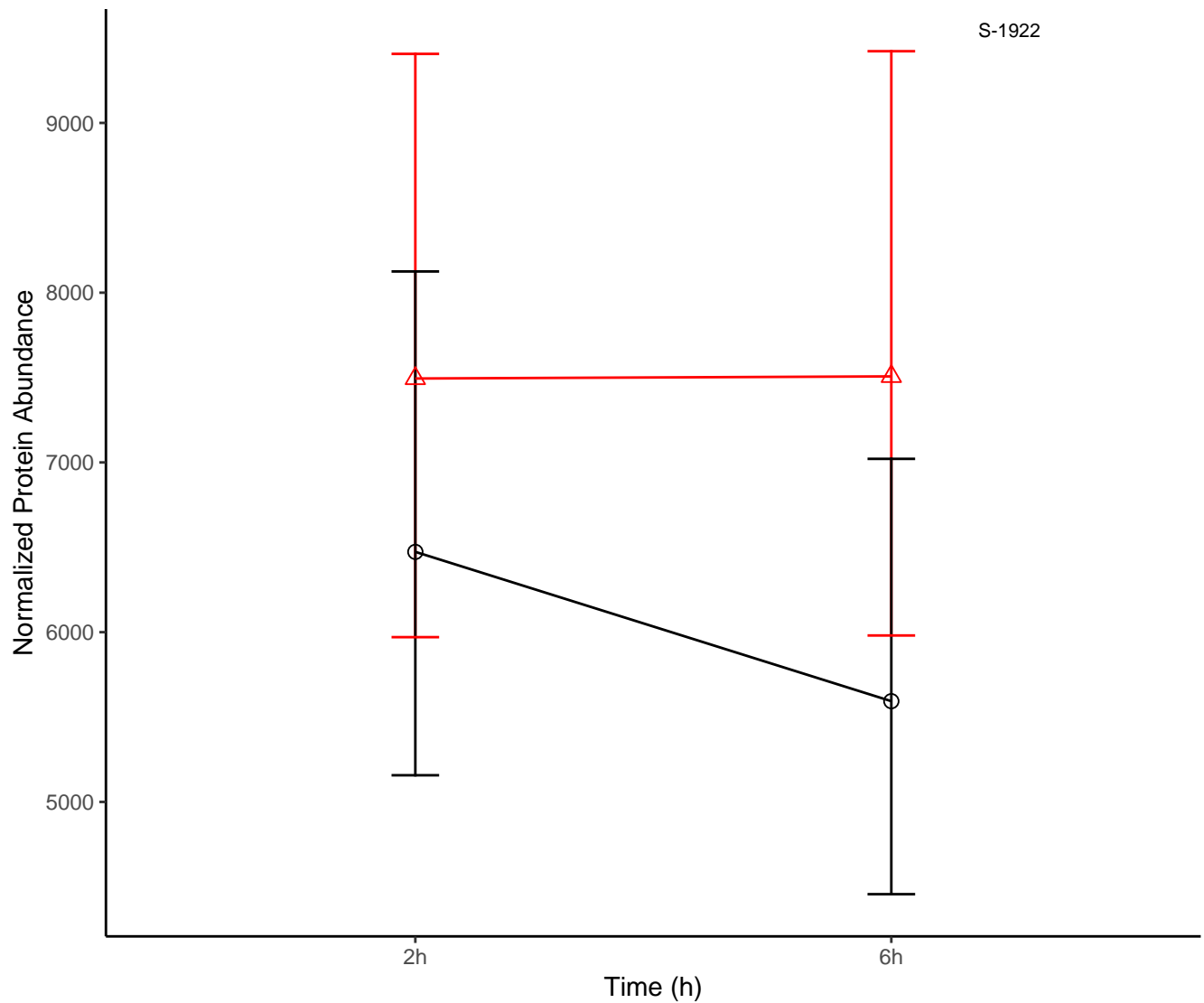


○ TSB-dex

△ TSB

# TDCB\_STAAM

S-1922

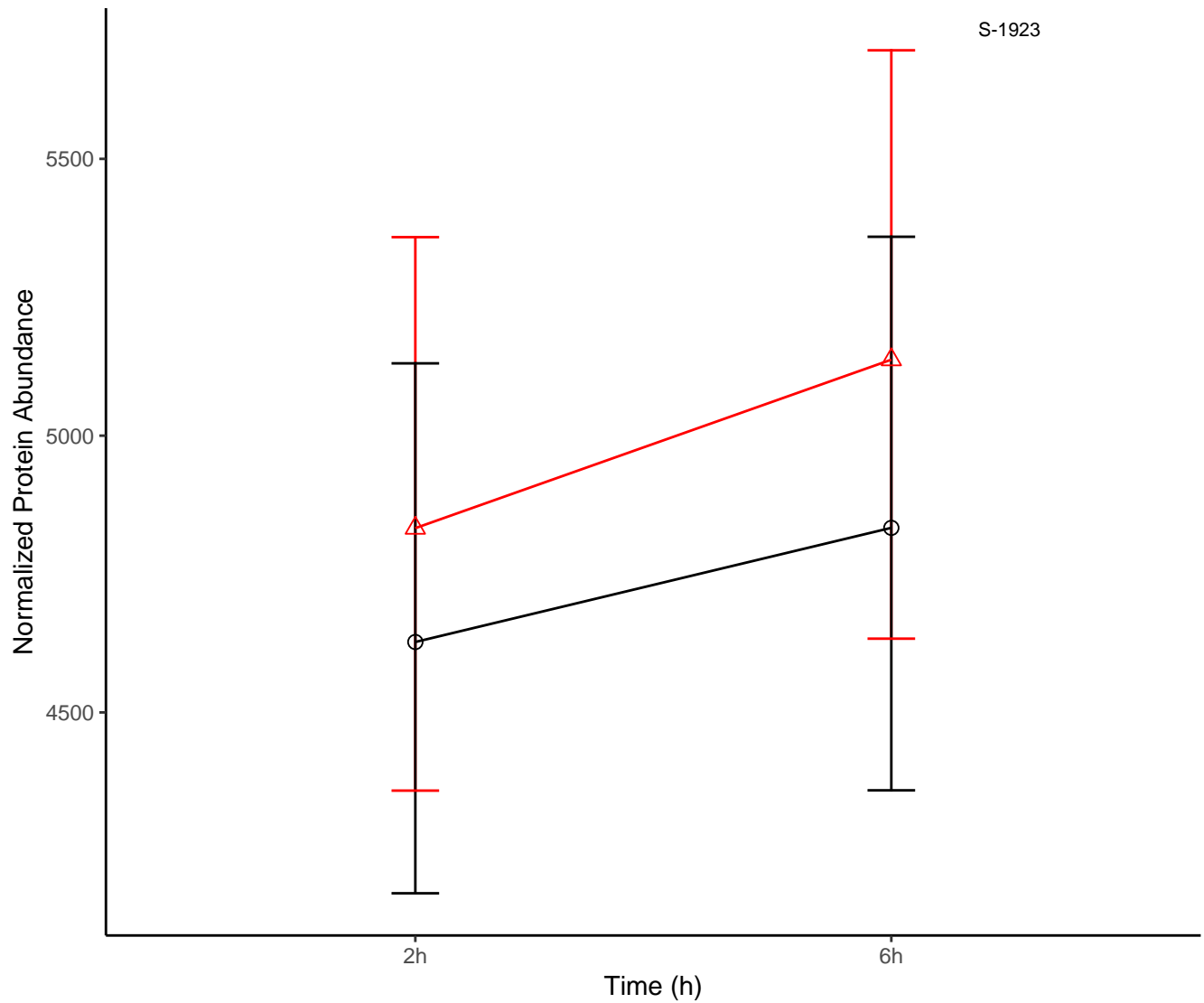


○ TSB-dex

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# TELL\_STAAM

S-1923

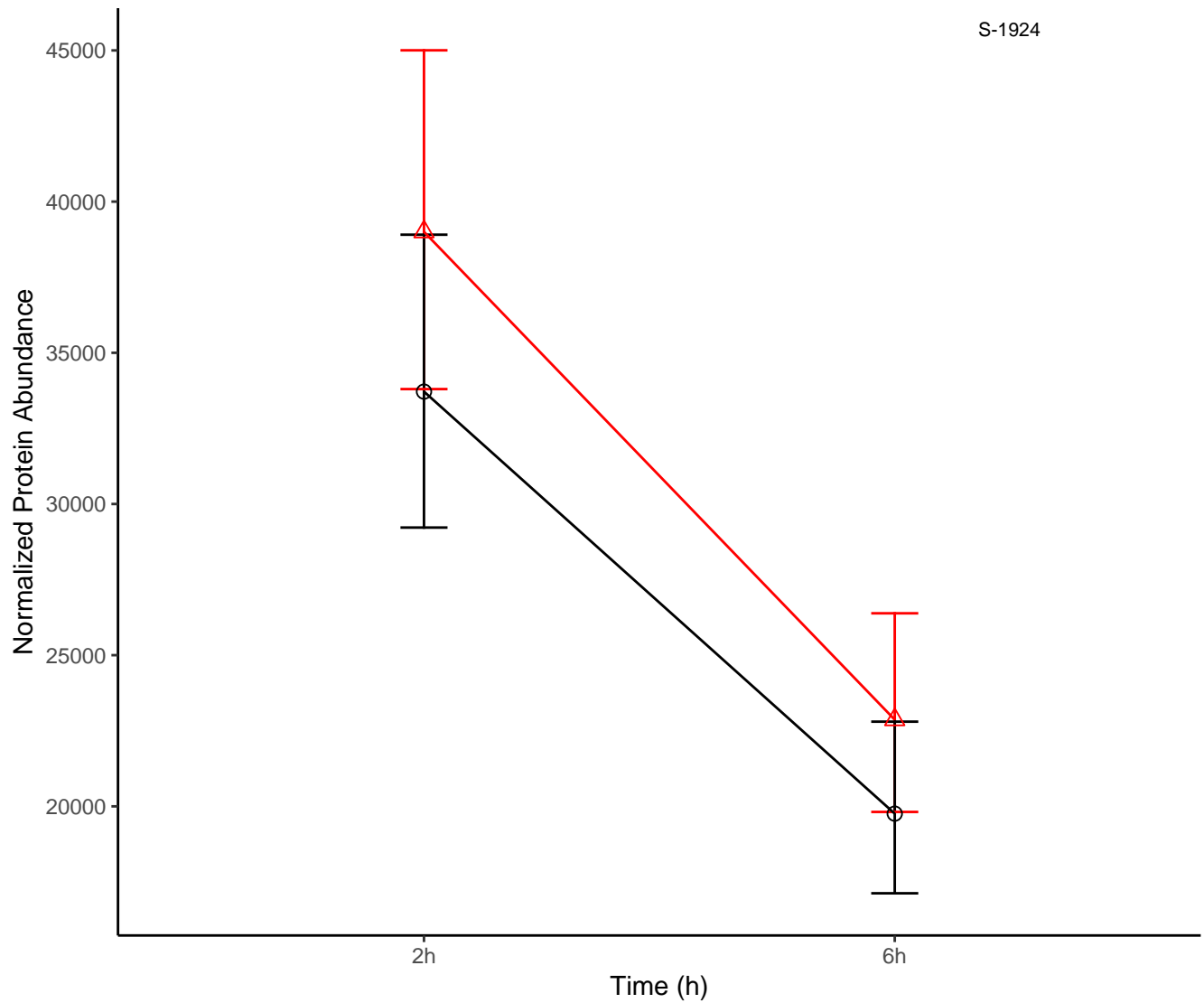


○ TSB-dex

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# THID\_STAAM

S-1924

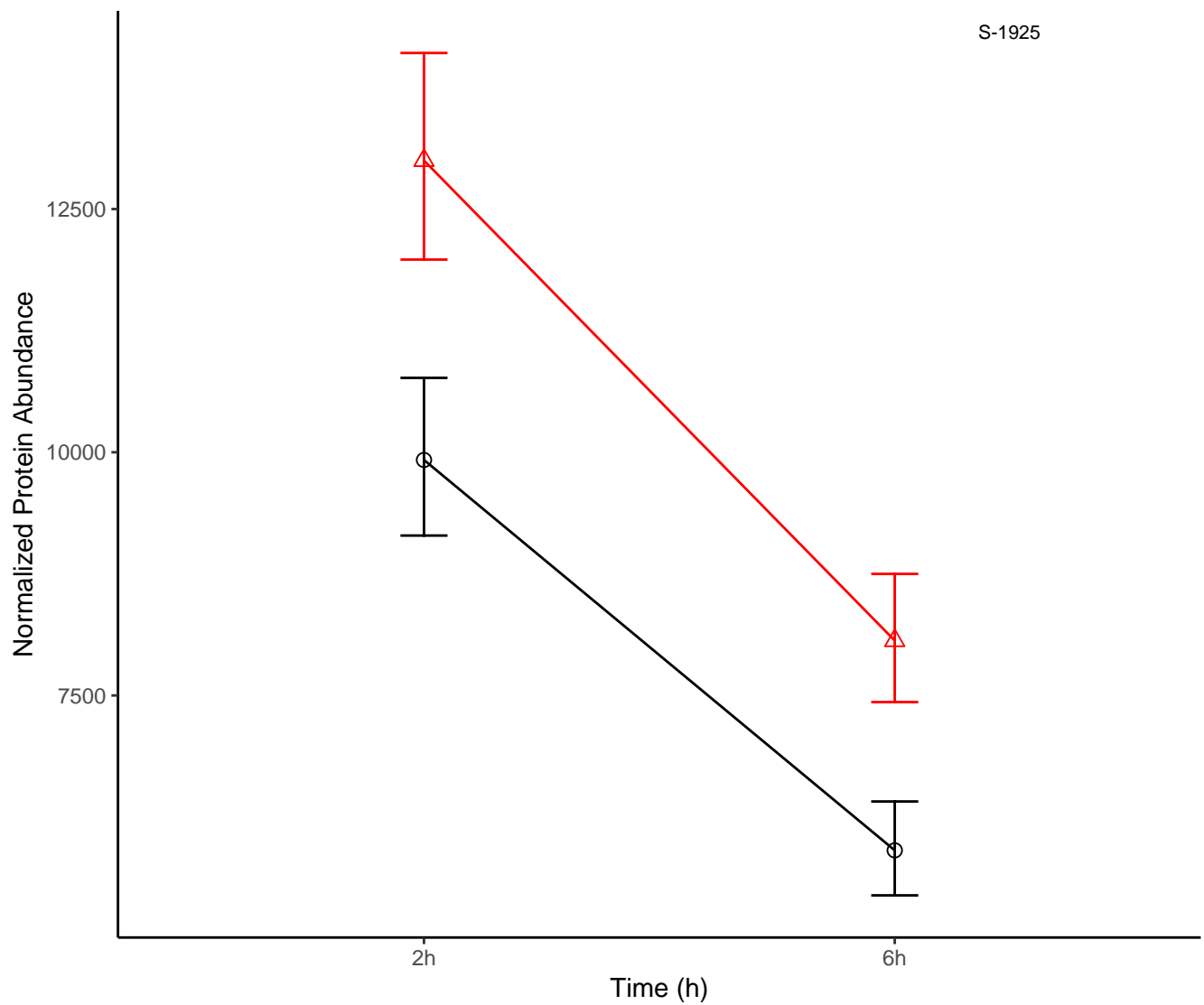


○ TSB-dex

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# THIM\_STAAM

S-1925

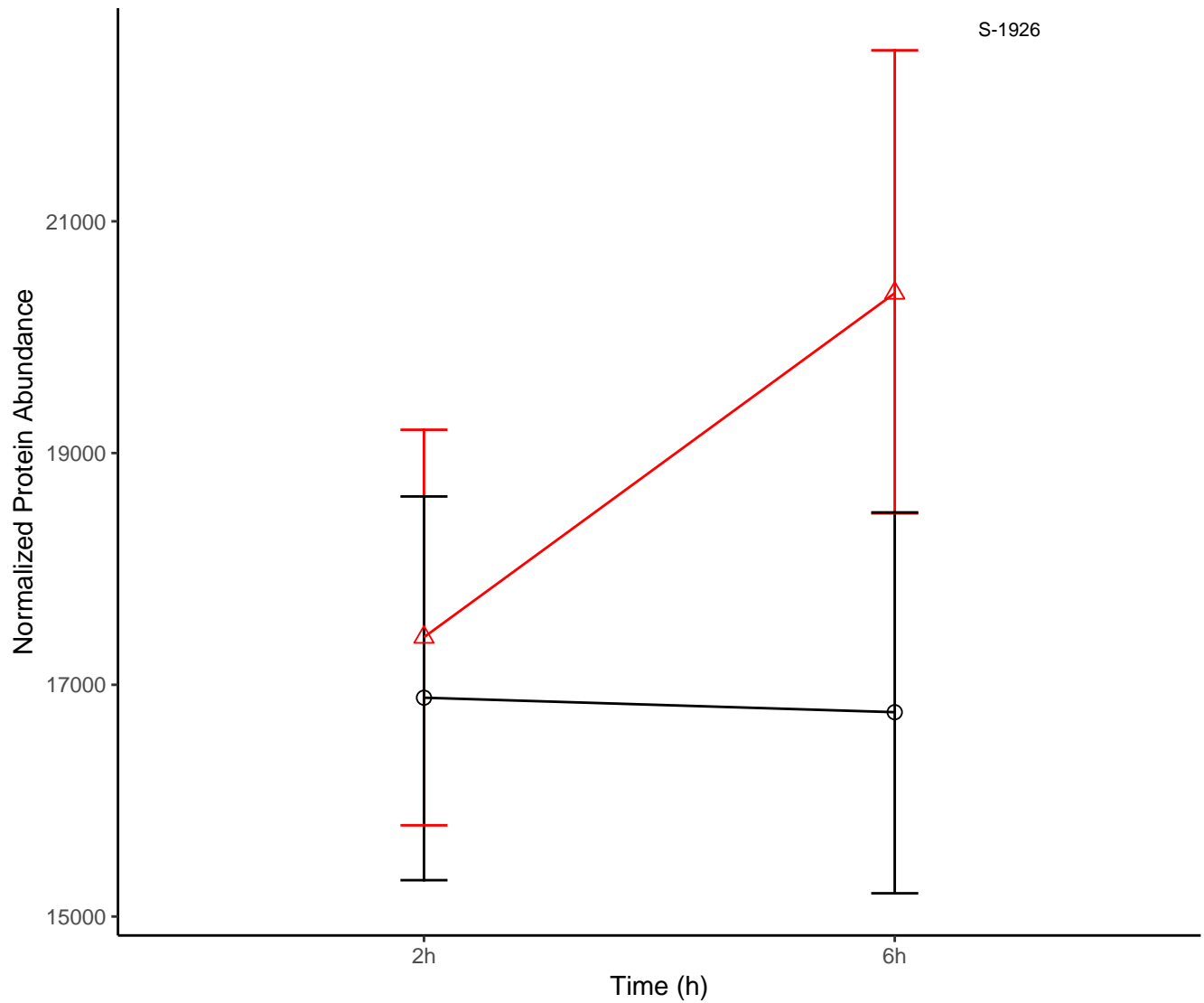


○ TSB-dex

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# THIO\_STAAM

S-1926

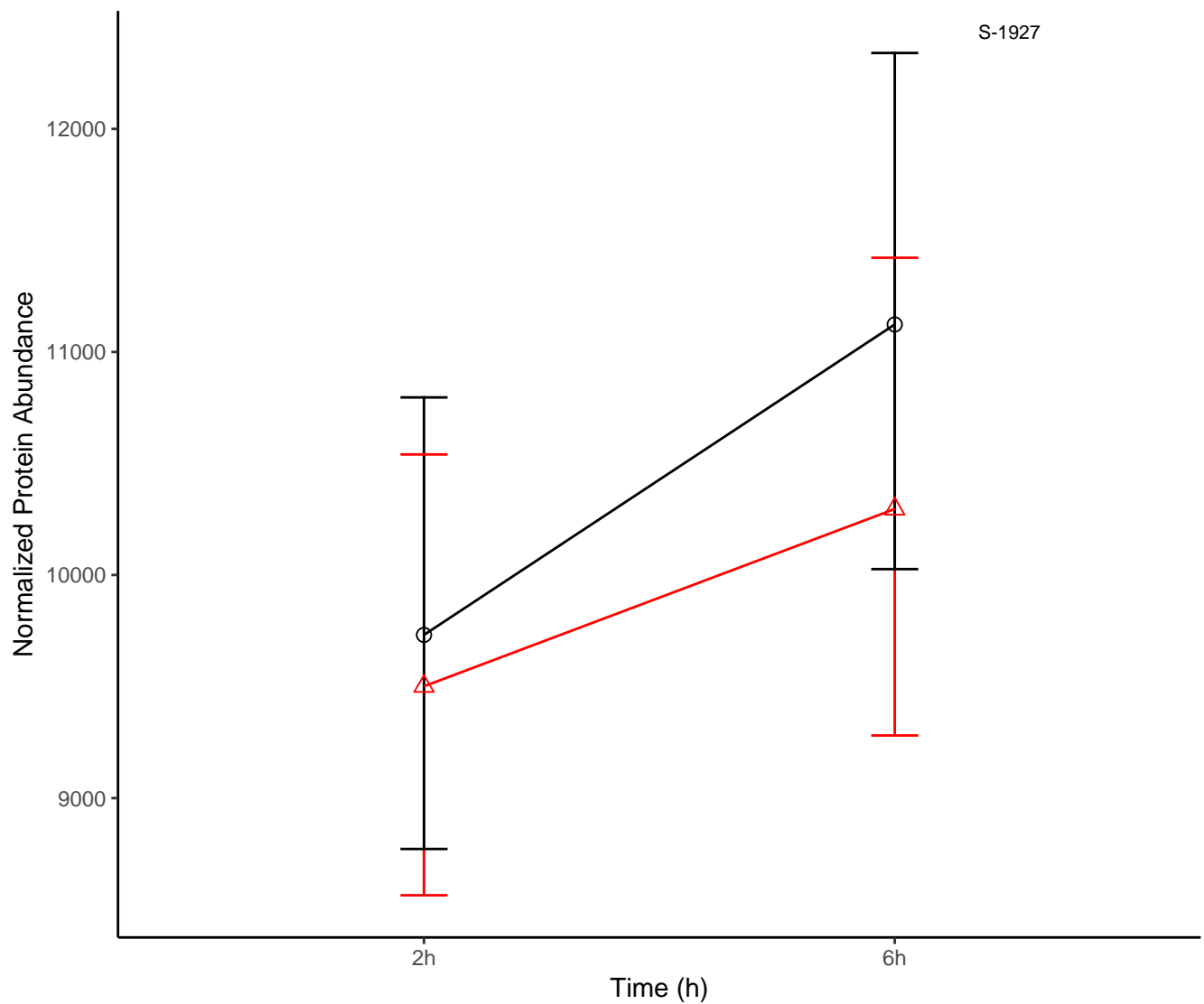


○ TSB-dex

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# THLA\_STAAM

S-1927

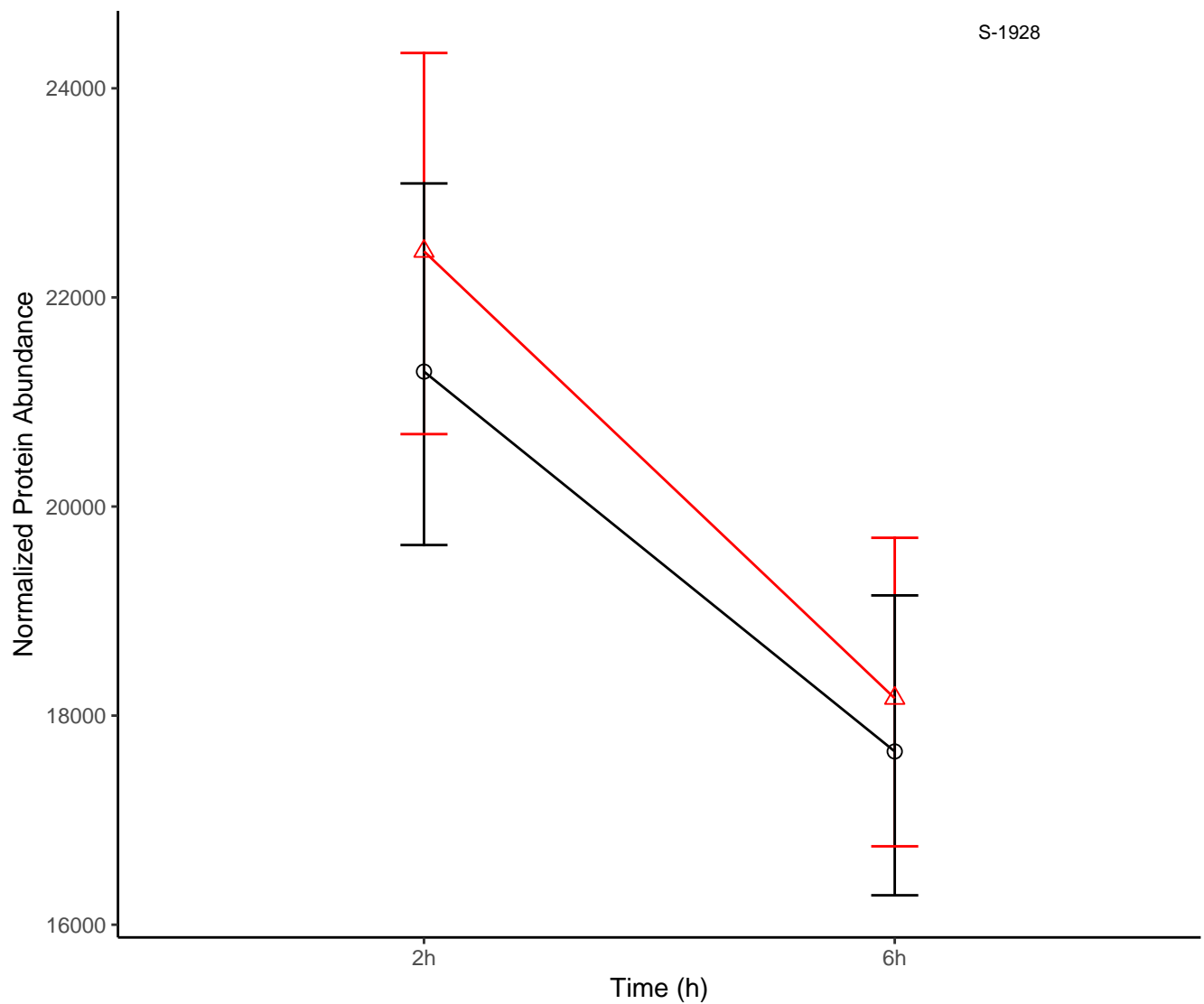


○ TSB-dex

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# TIG\_STAAM

S-1928



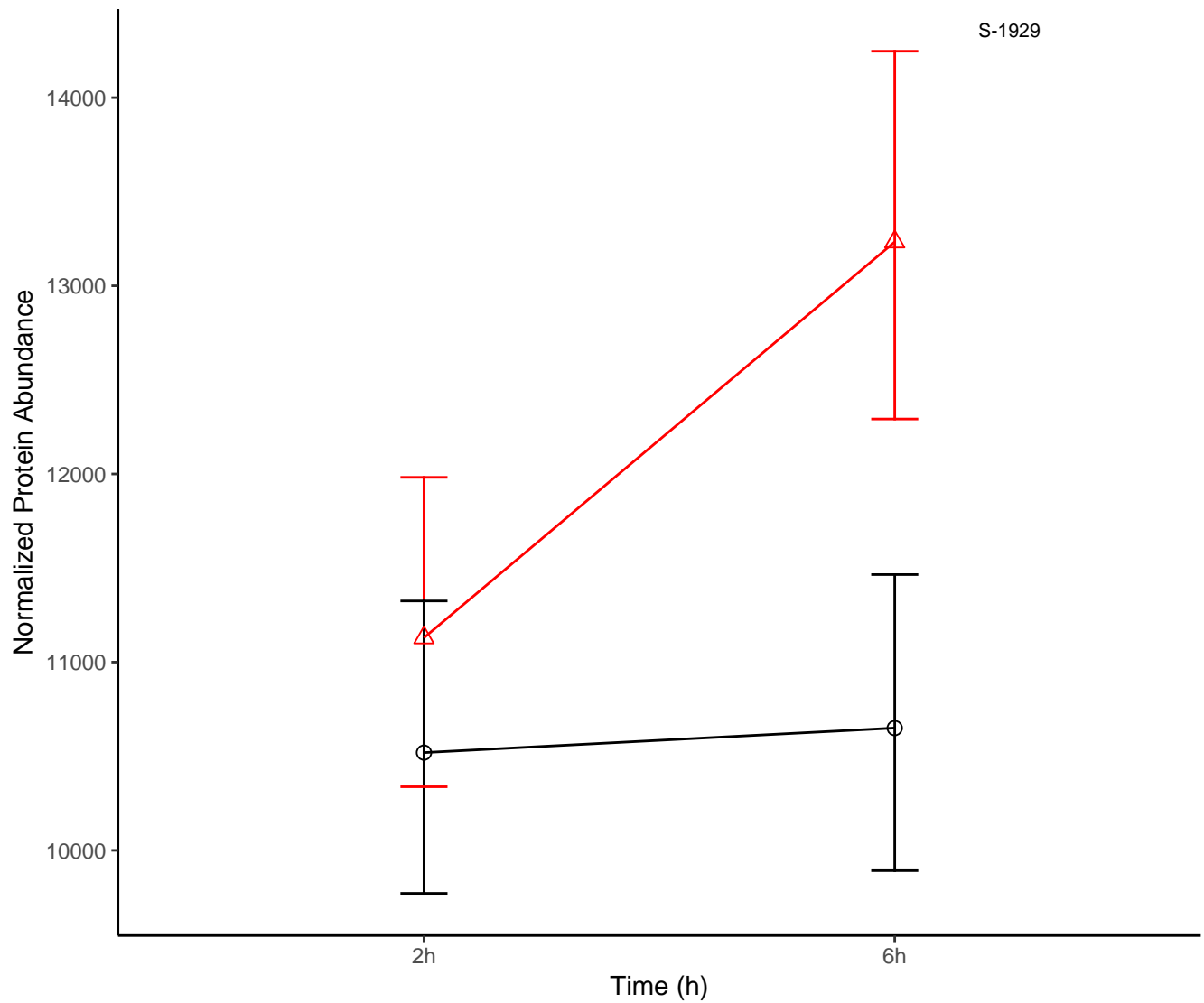
○ TSB-dex

△ TSB



# TKT\_STAAM

S-1929

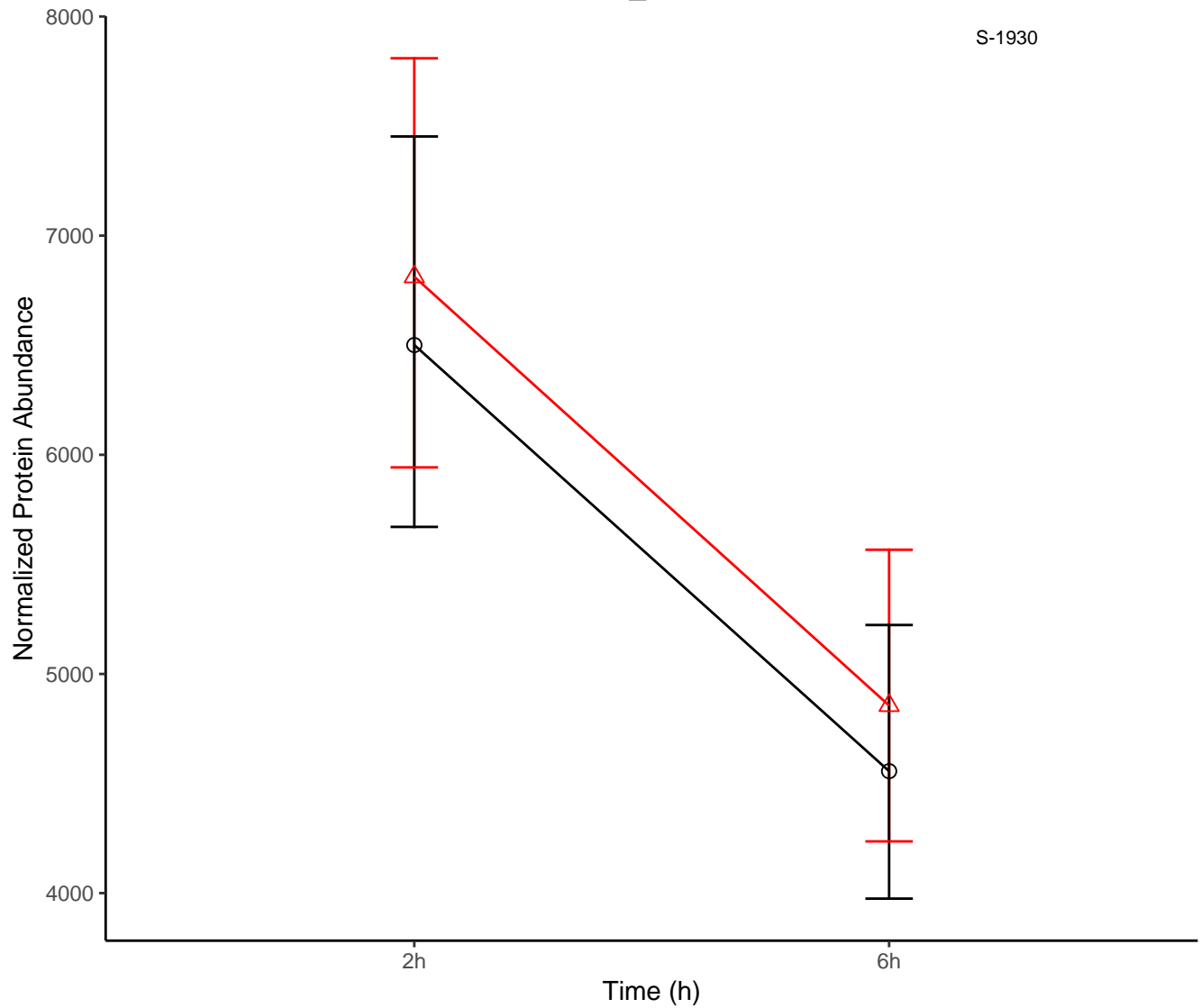


○ TSB-dex

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# TOP1\_STAAM

S-1930

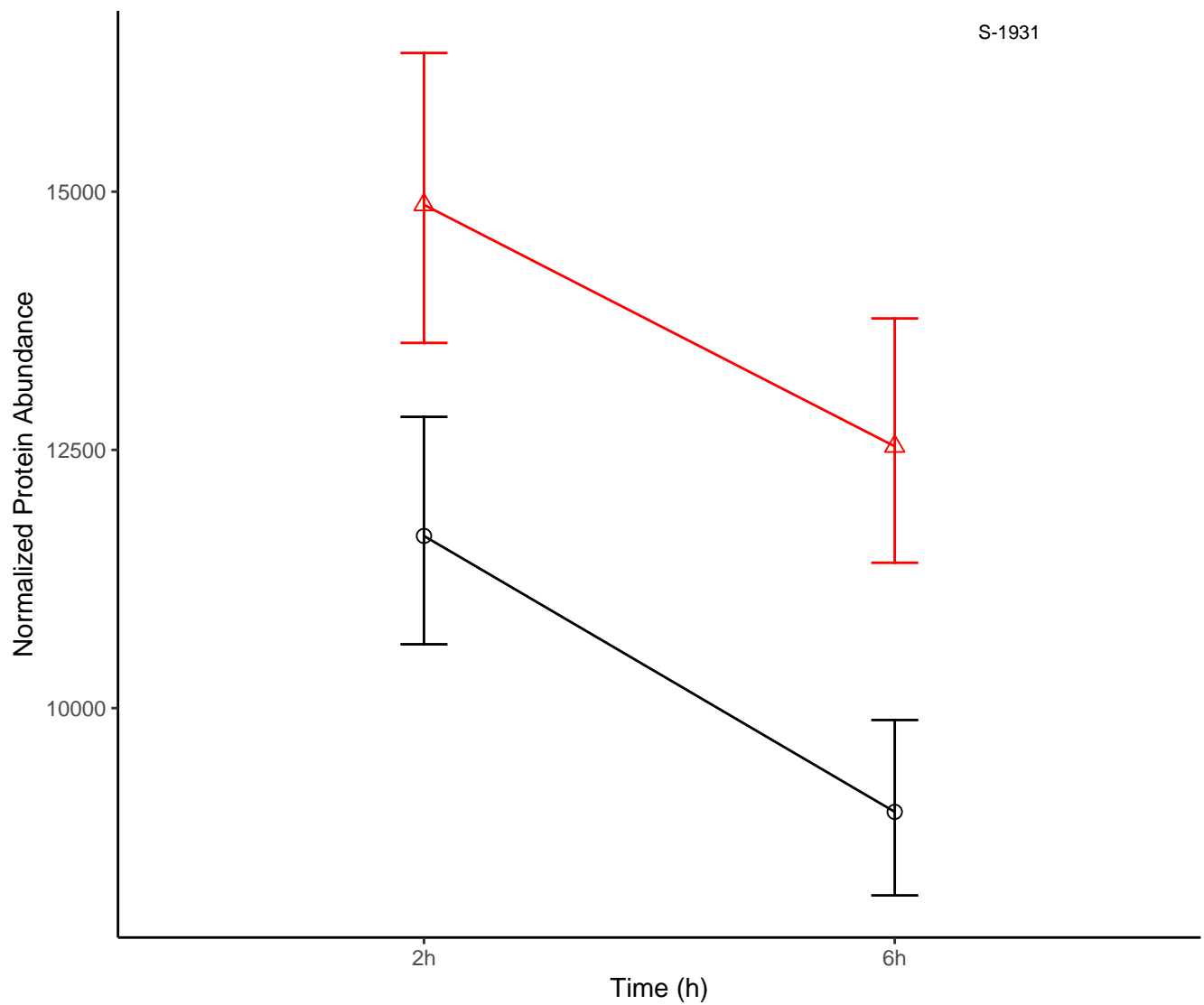


○ TSB-dex

△ TSB

# TOP3\_STAAM

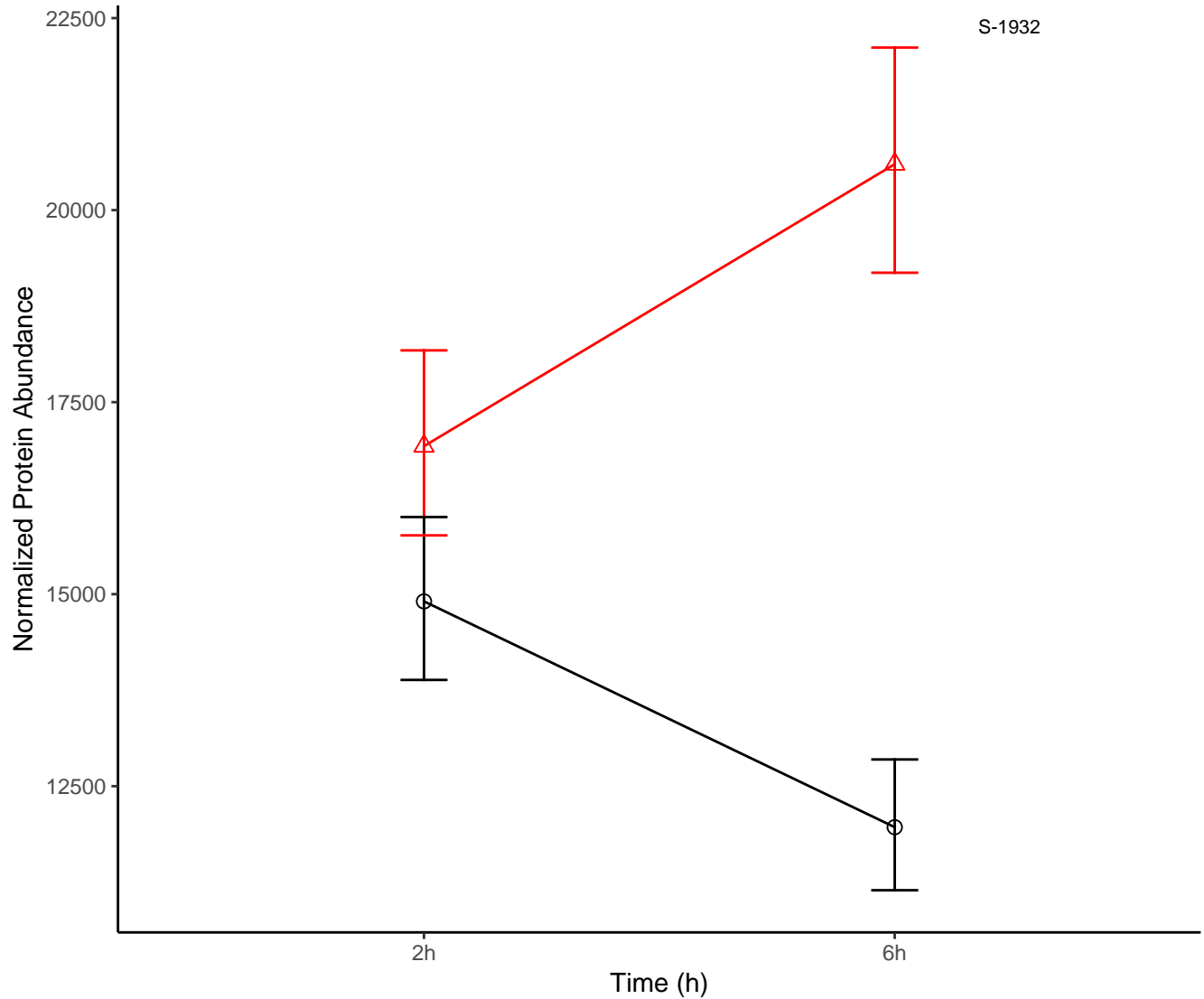
S-1931



○ TSB-dex

△ TSB

# TPIS\_STAAM

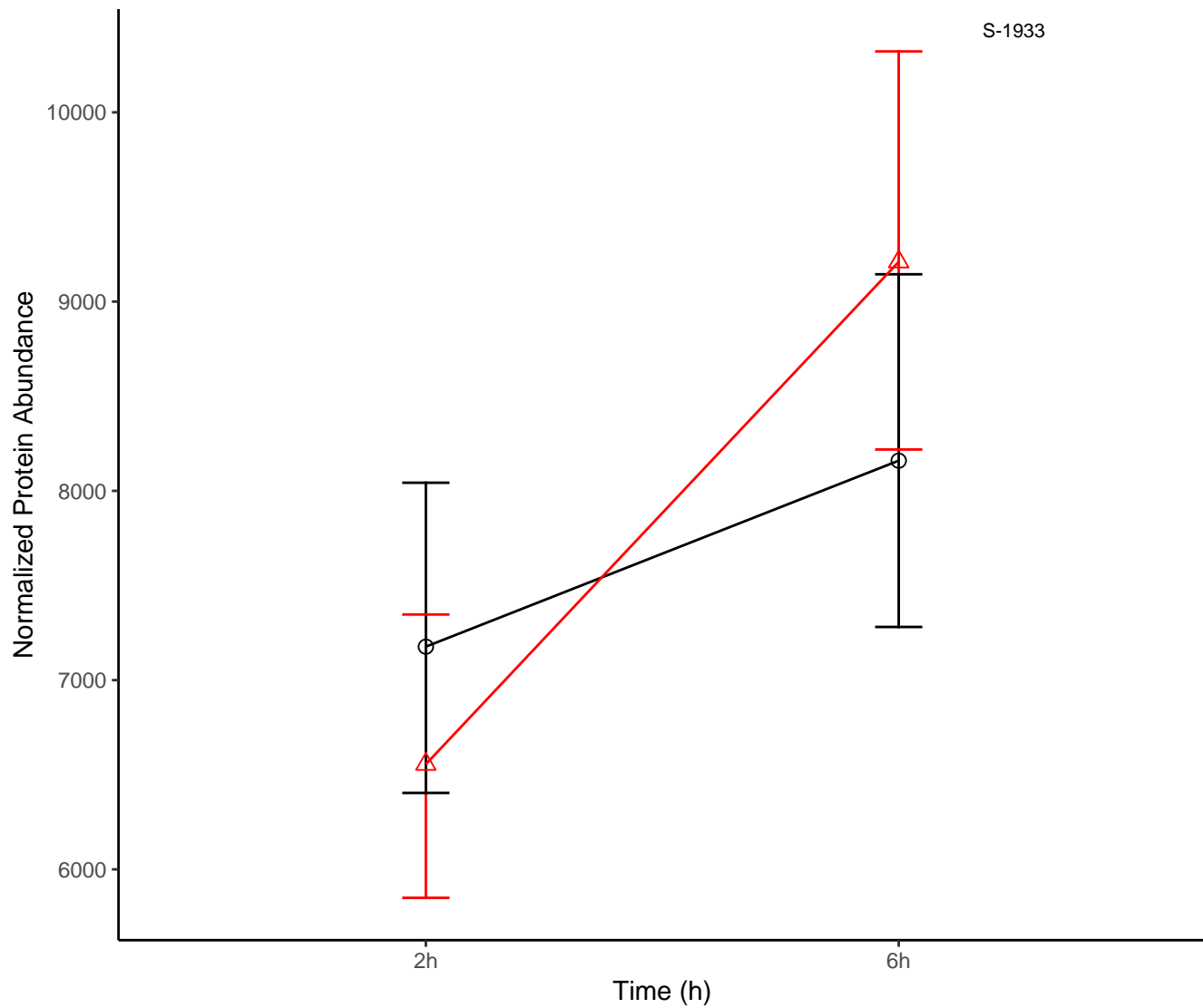


○ TSB-dex

△ TSB

# TPX\_STAAM

S-1933

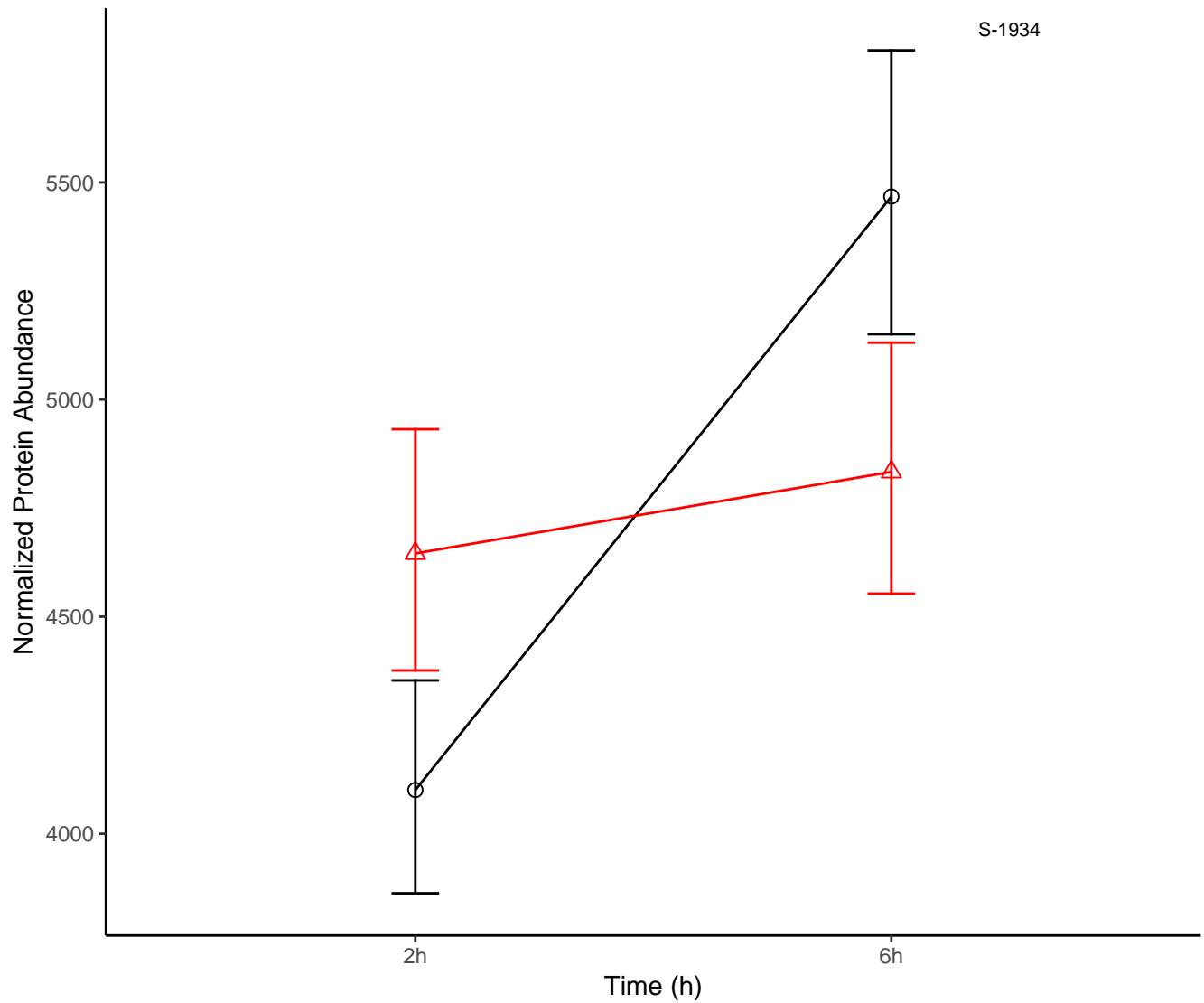


○ TSB-dex

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# TRAC\_STAAM

S-1934

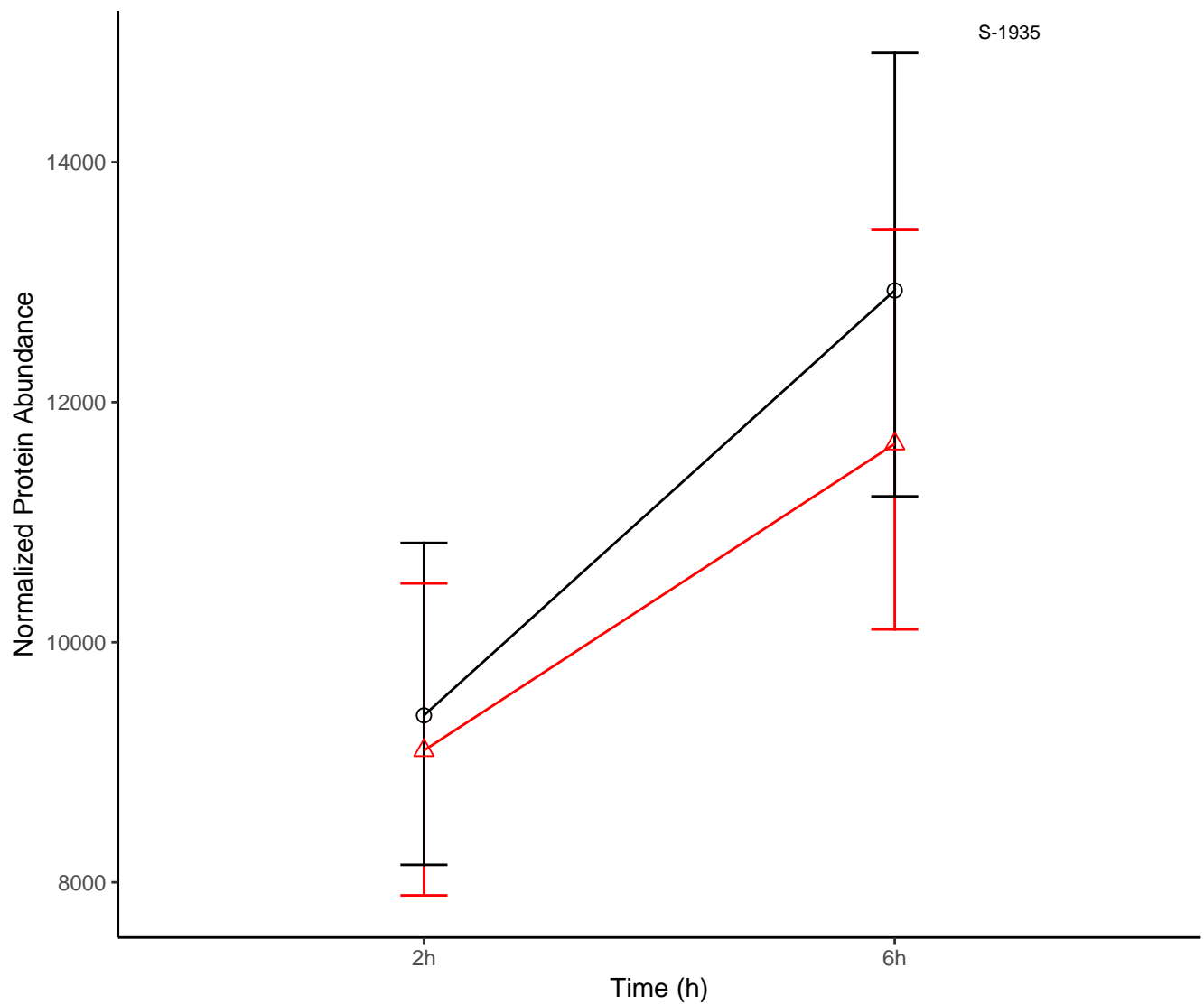


○ TSB-dex

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# TRAP\_STAAM

S-1935

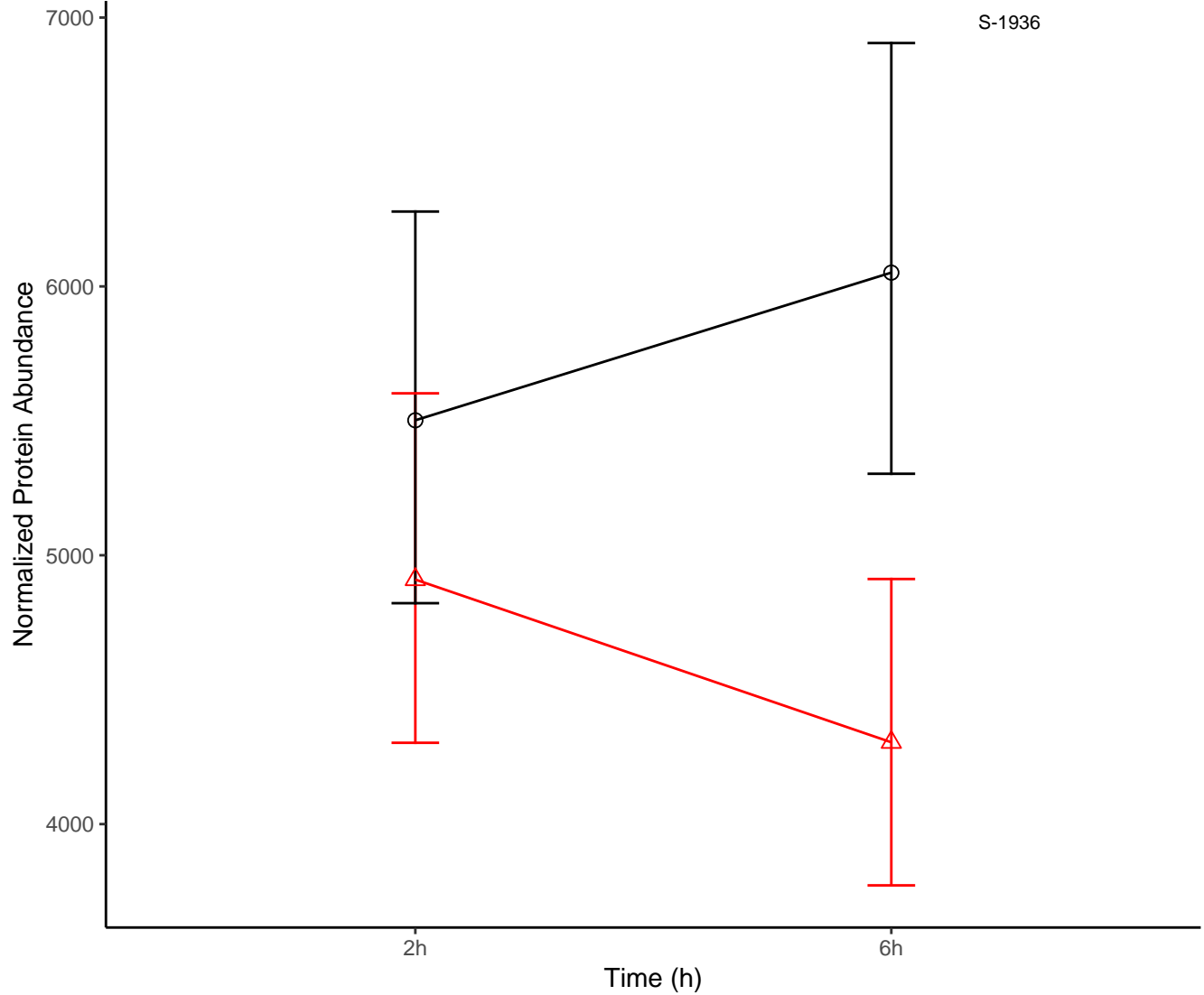


○ TSB-dex

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# TRMB\_STAAM

S-1936



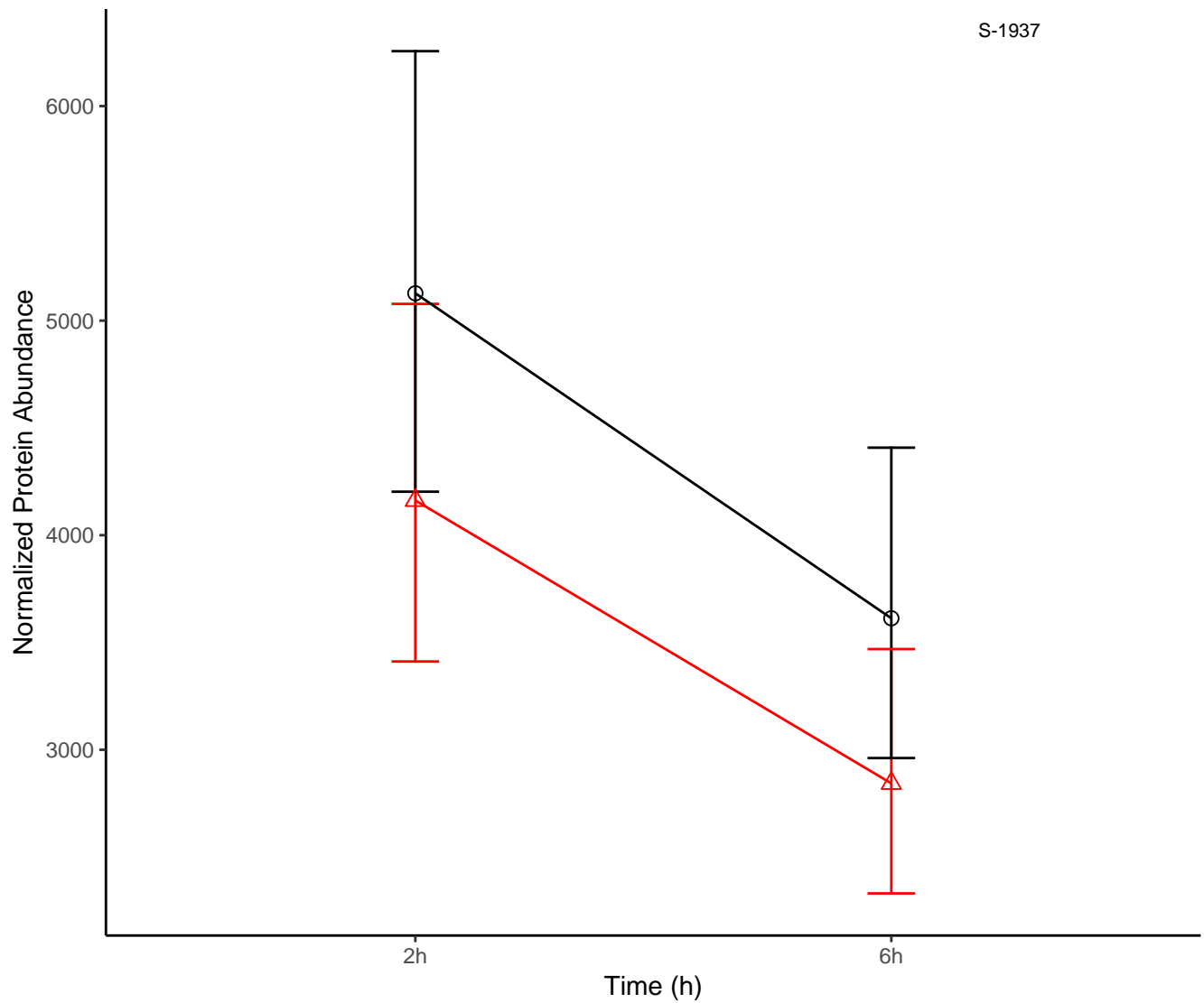
○ TSB-dex

△ TSB



# TRMFO\_STAAM

S-1937

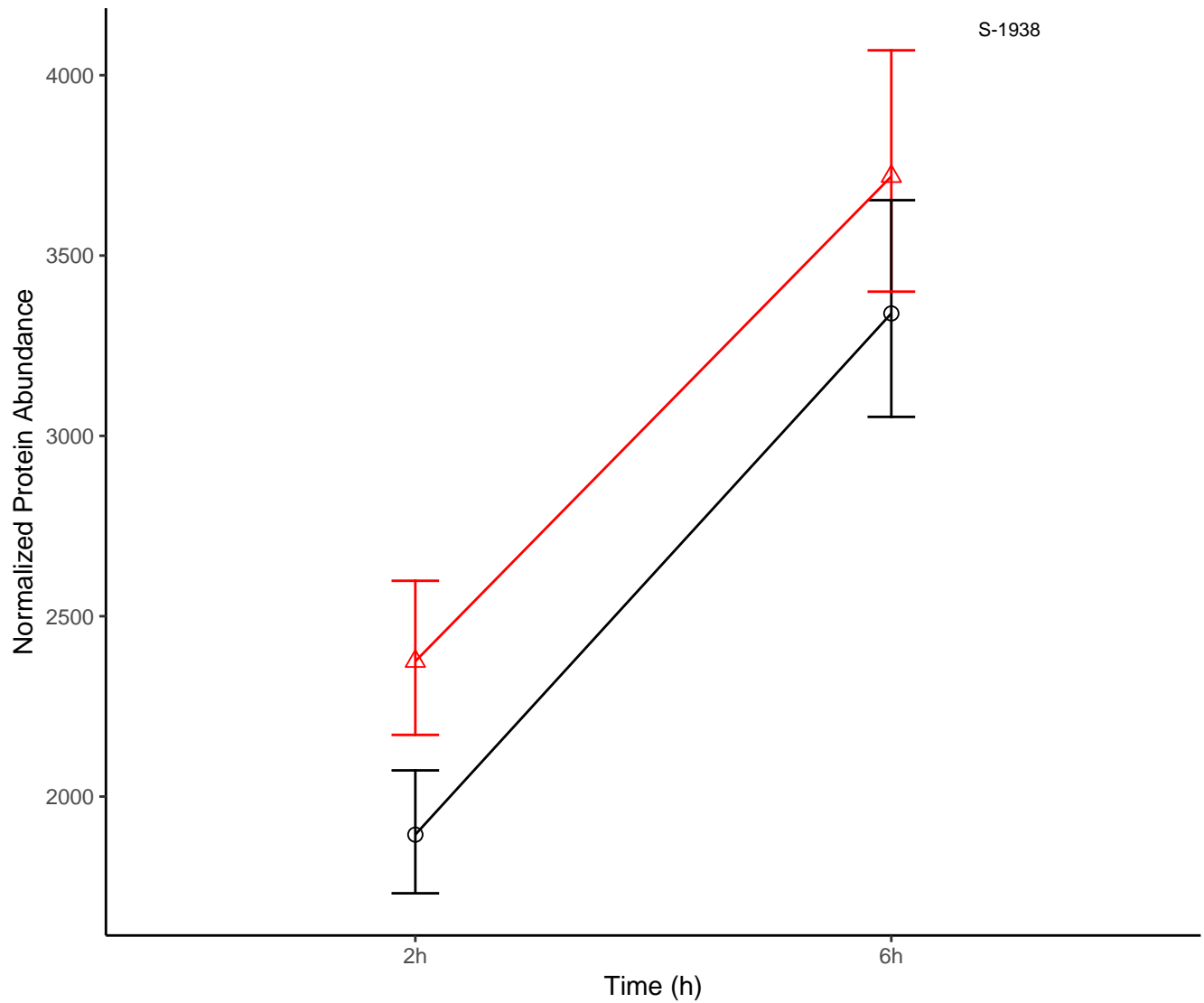


○ TSB-dex

△ TSB

# TRMHL\_STAAM

S-1938

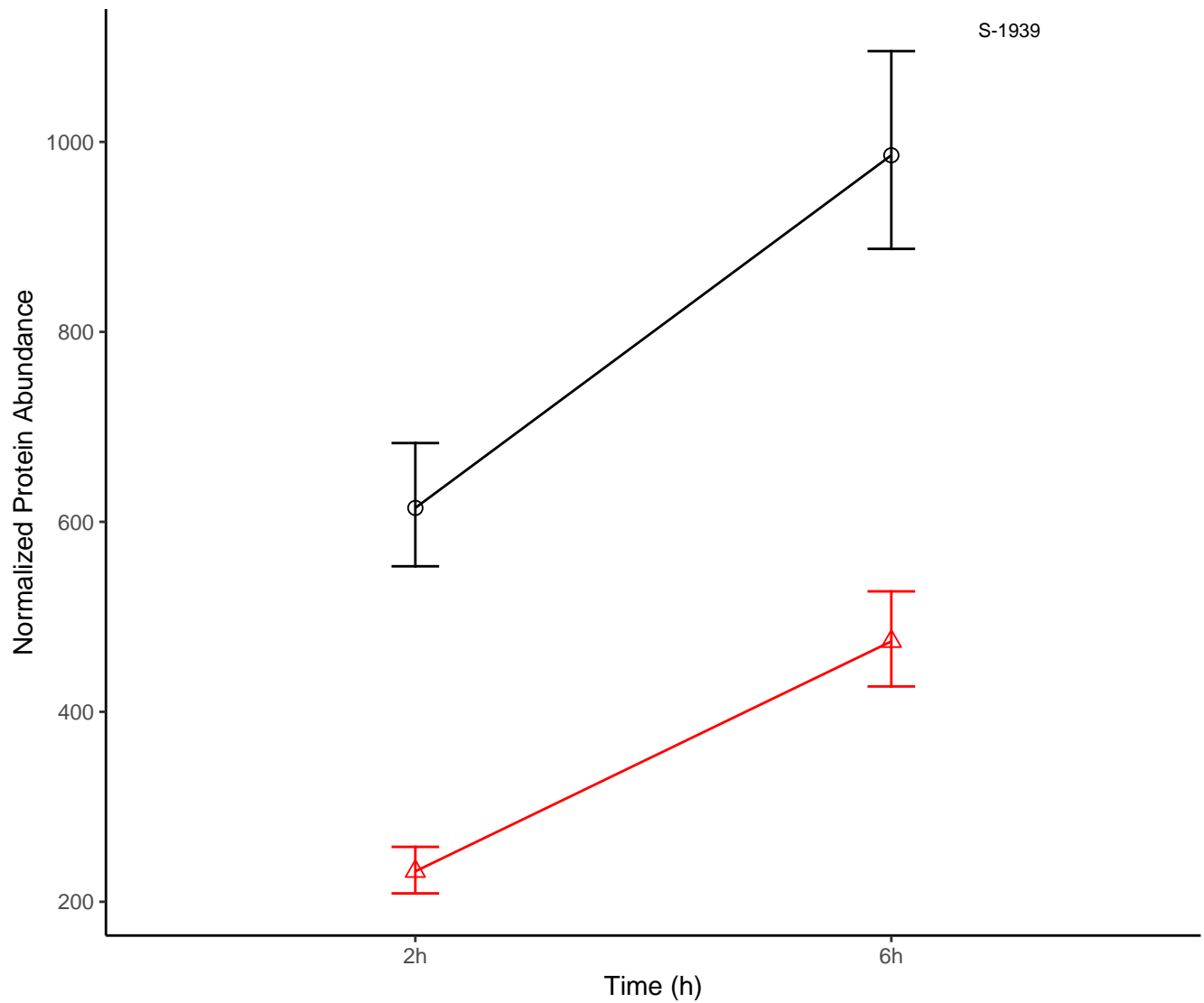


○ TSB-dex

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# TRPA\_STAAM

S-1939

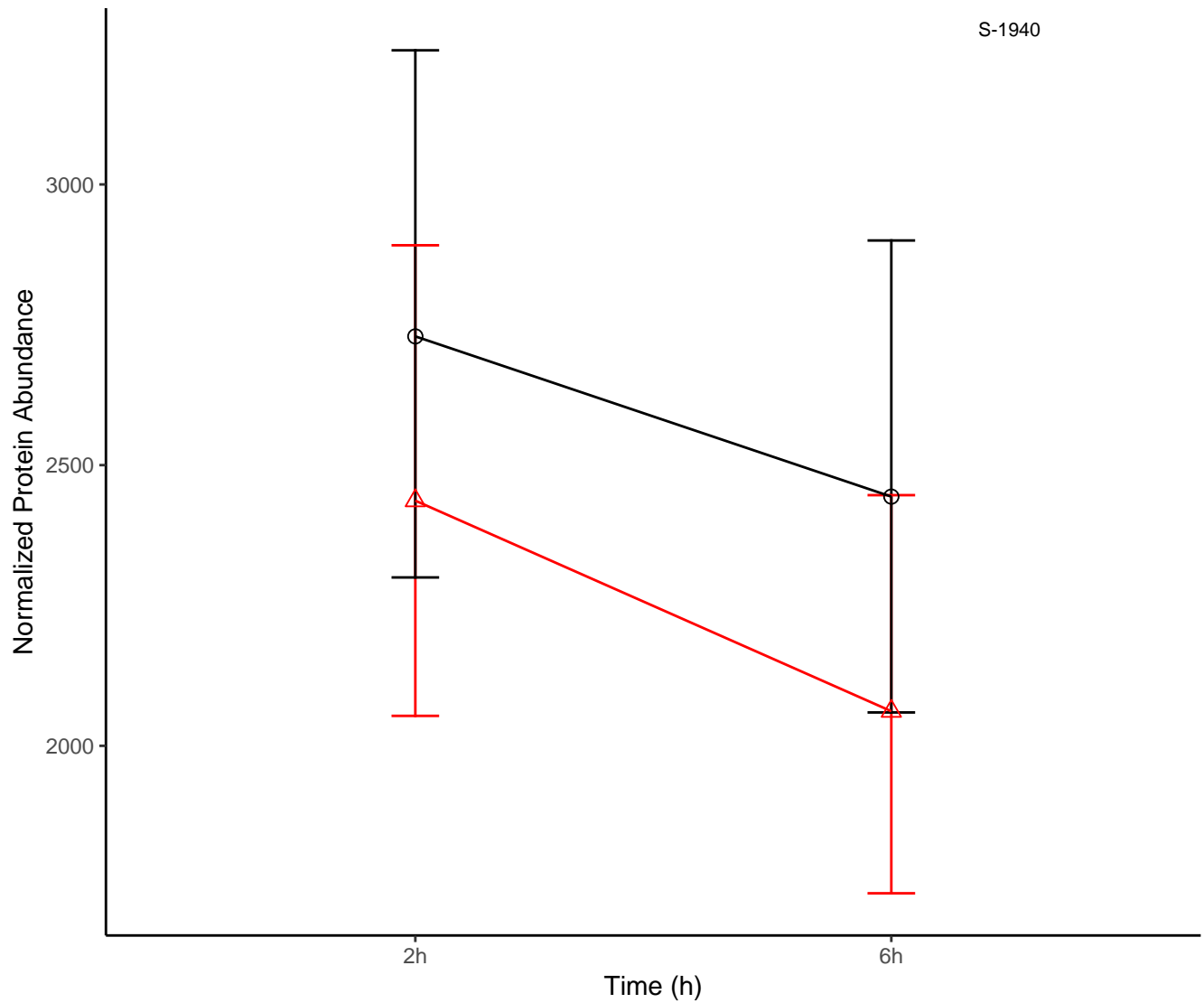


○ TSB-dex

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# TRPF\_STAAM

S-1940

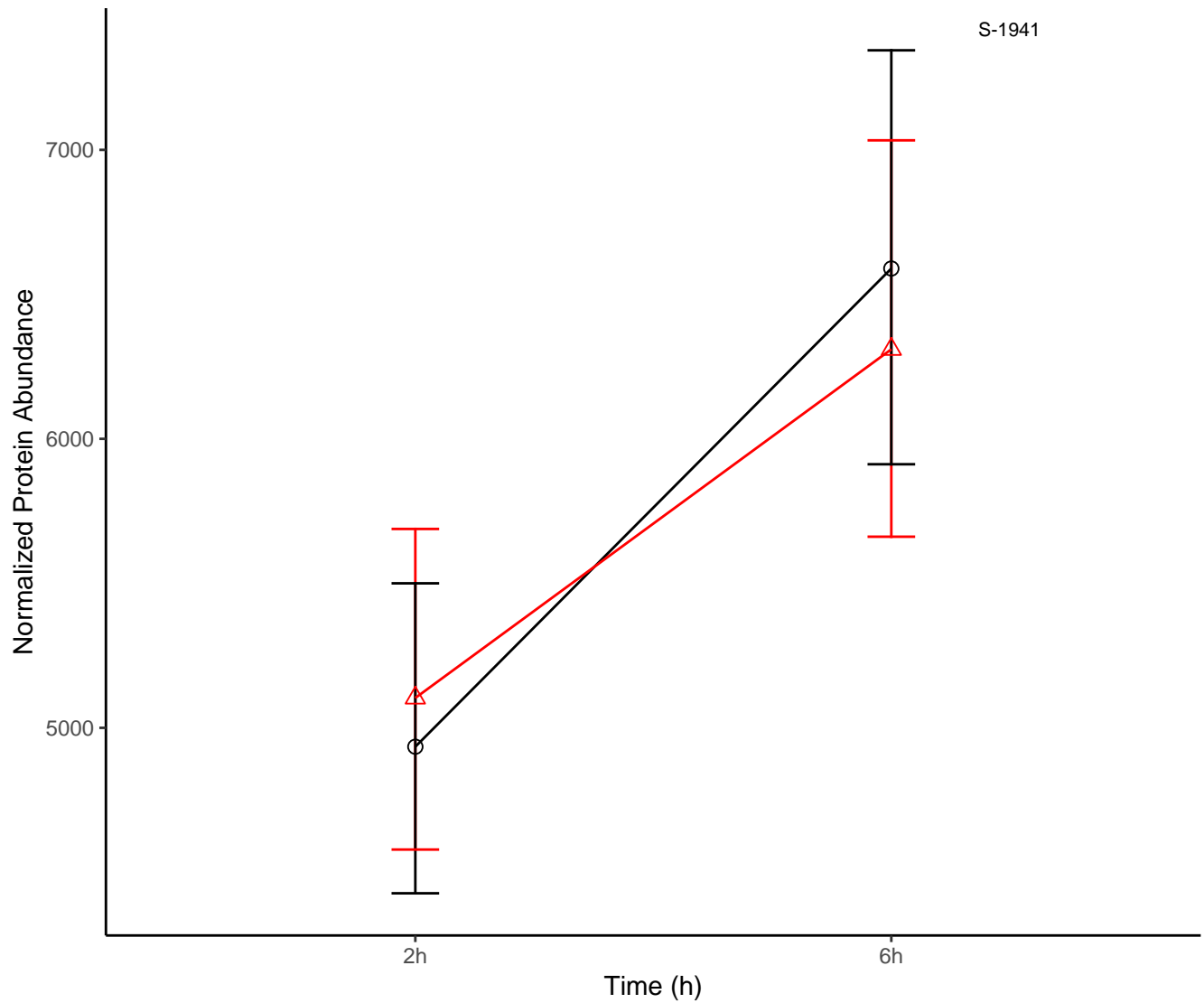


○ TSB-dex

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# TRUB\_STAAM

S-1941

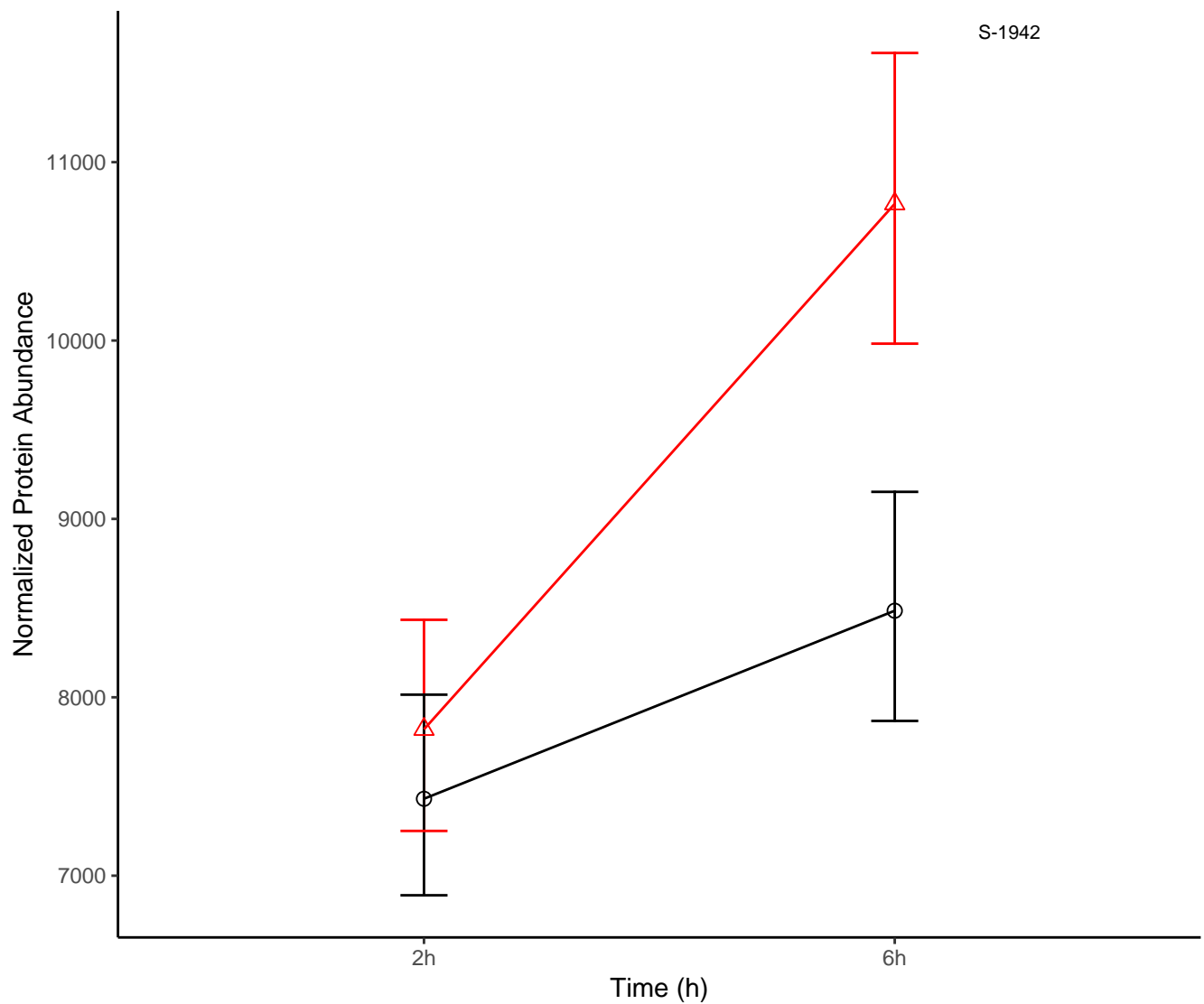


○ TSB-dex

△ TSB

# TRXB\_STAAM

S-1942

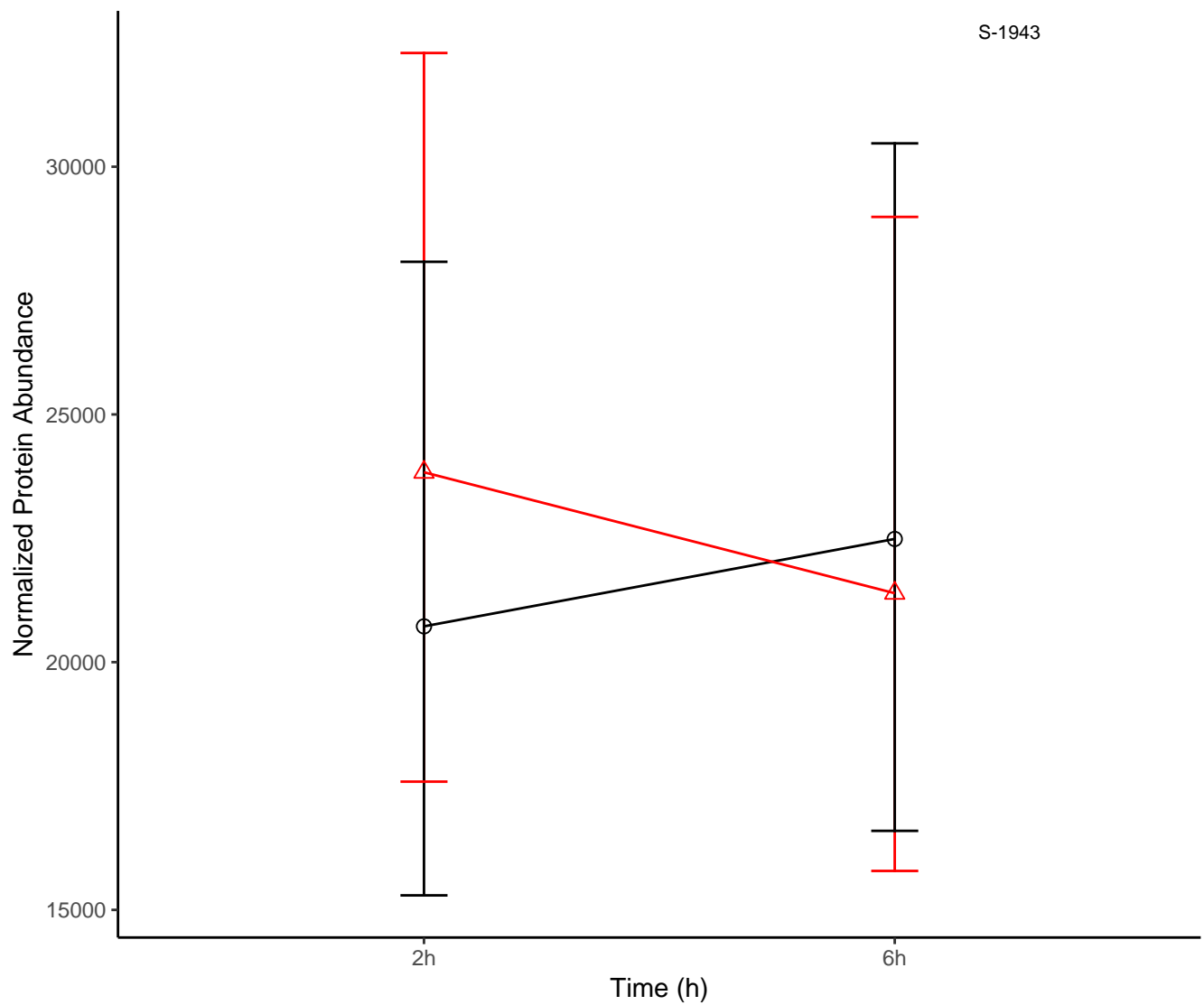


○ TSB-dex

△ TSB

# TSAD\_STAAM

S-1943

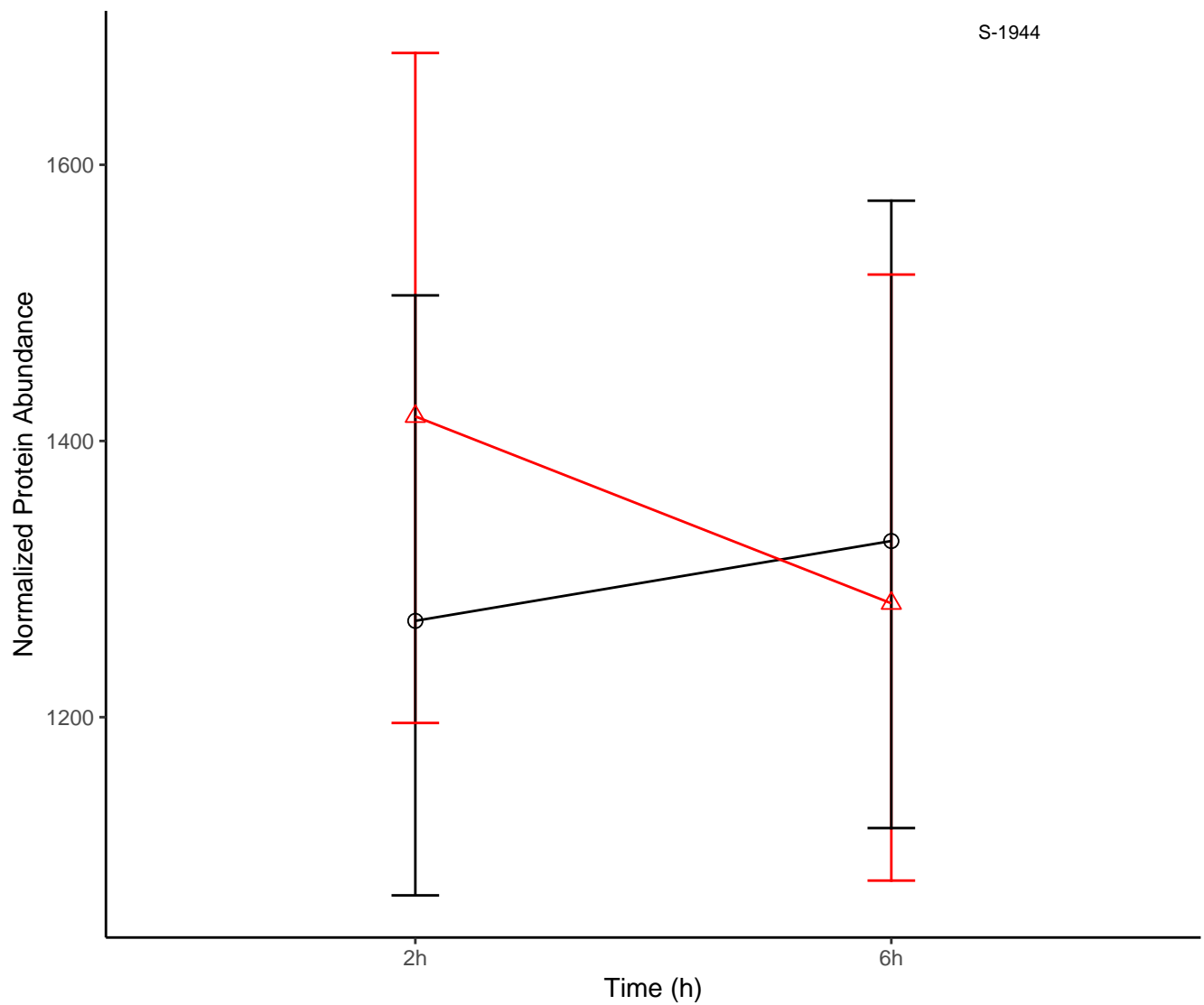


○ TSB-dex

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# TYRA\_STAAM

S-1944



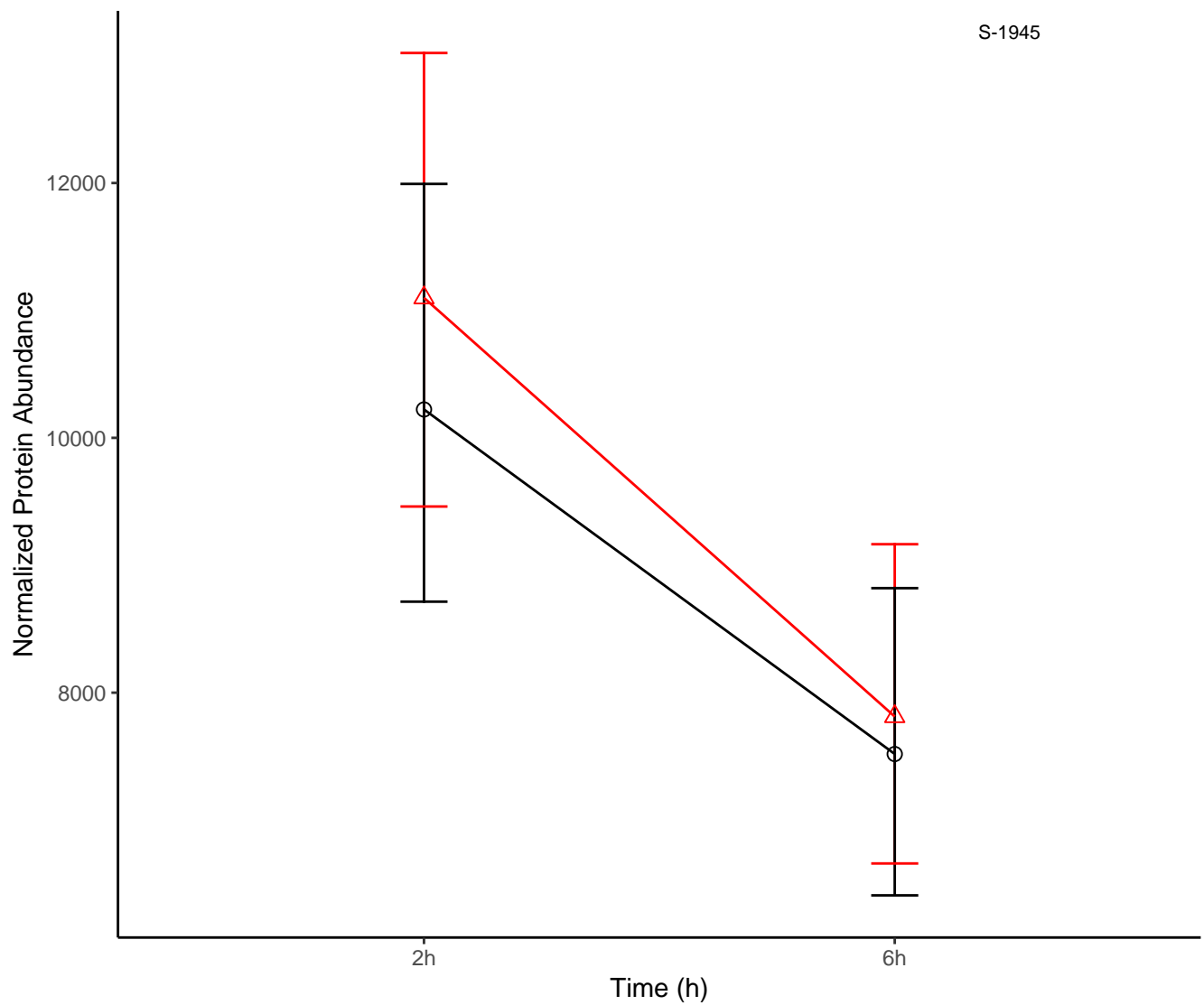
○ TSB-dex

△ TSB



# TYSY\_STAAM

S-1945

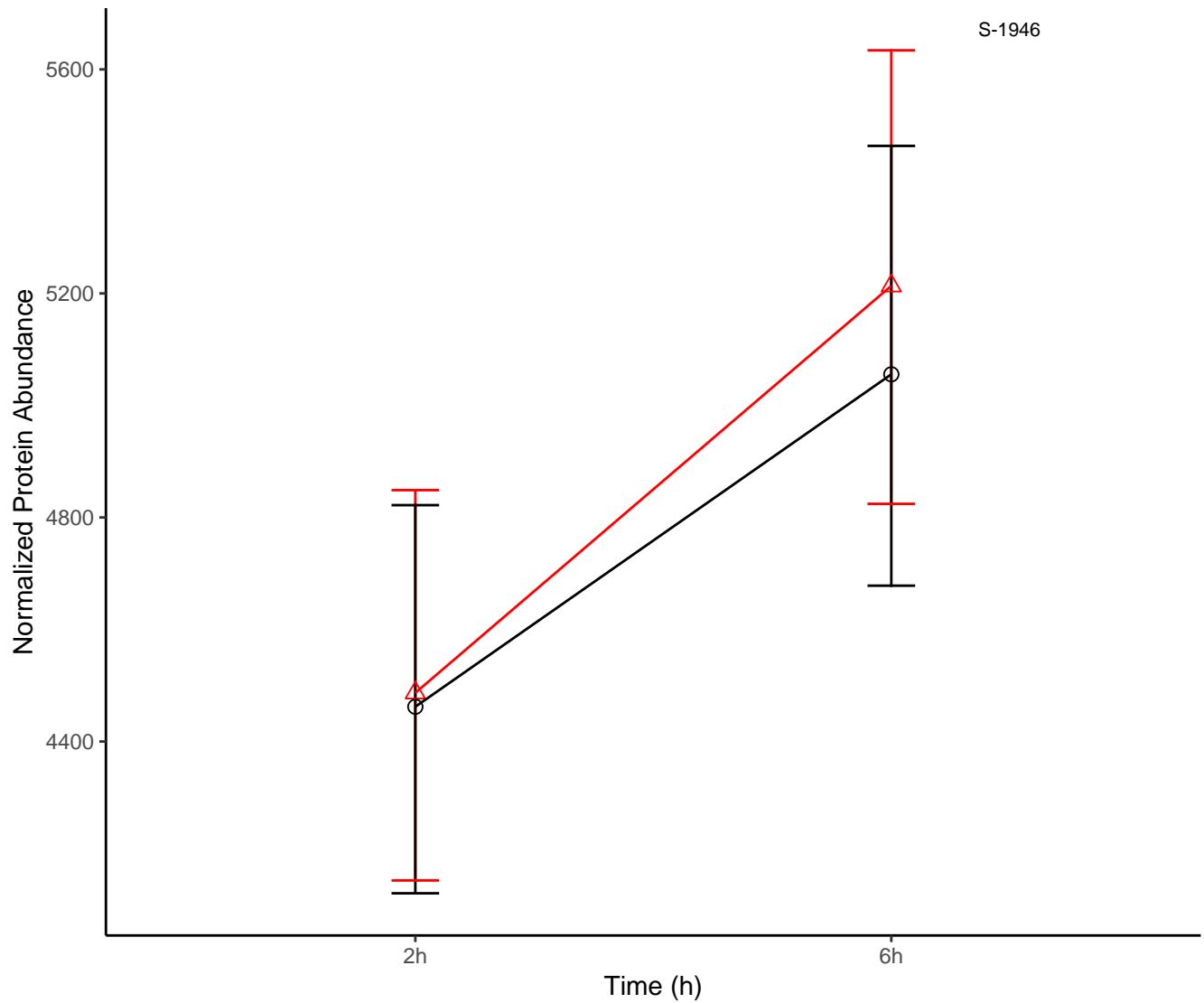


○ TSB-dex

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# UNG\_STAAM

S-1946

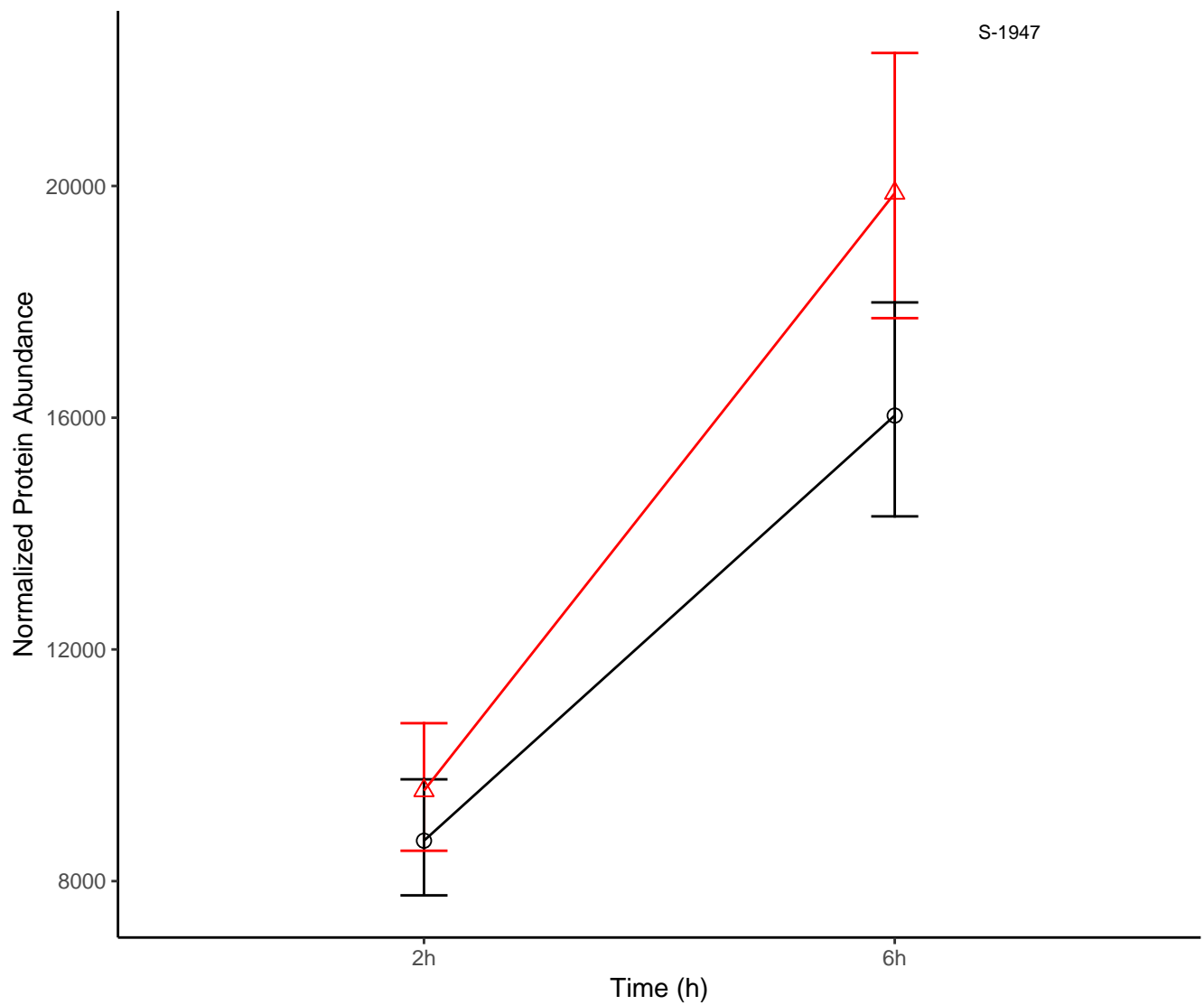


○ TSB-dex

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# UP355\_STAAM

S-1947

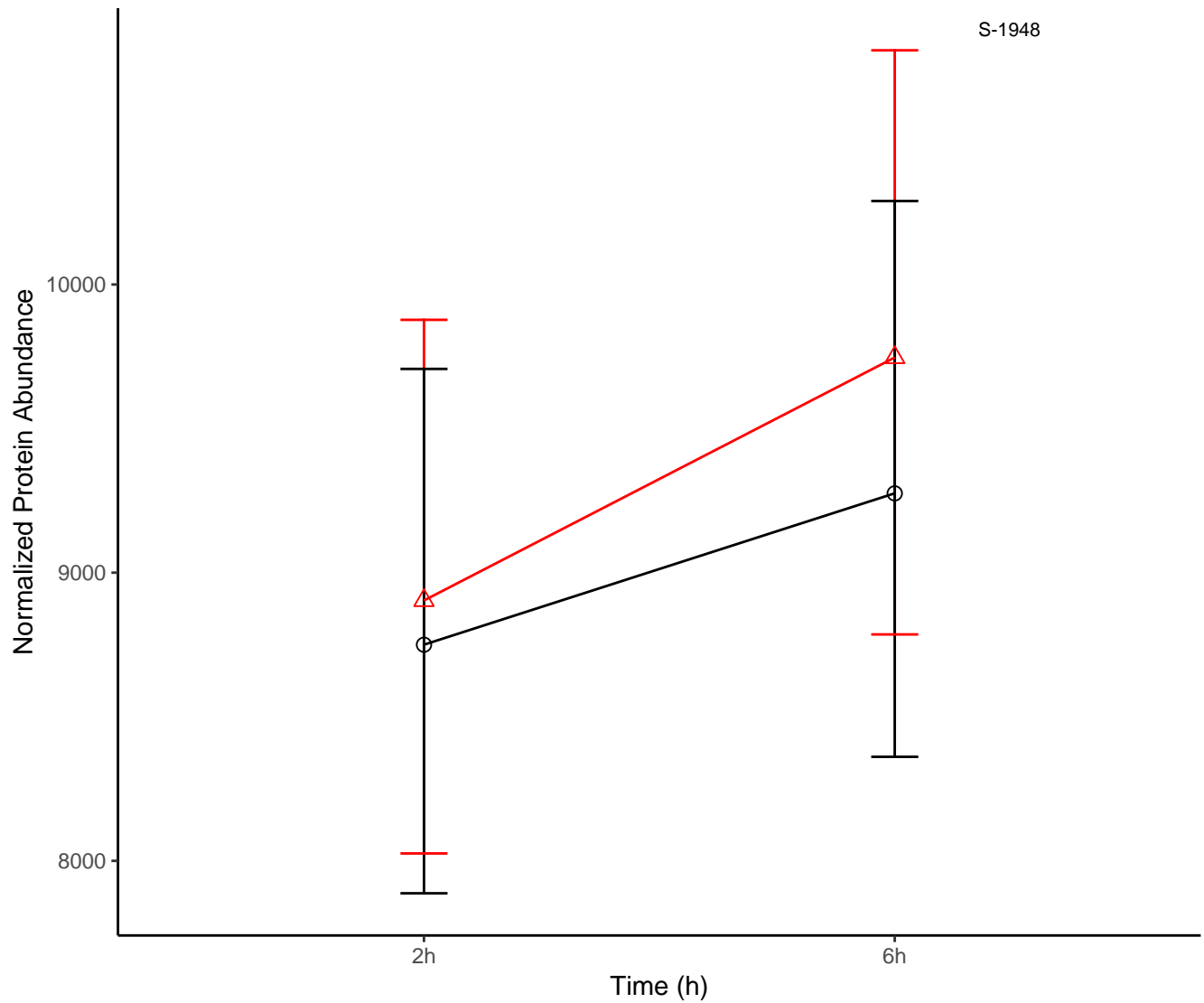


○ TSB-dex

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# UPP\_STAAM

S-1948

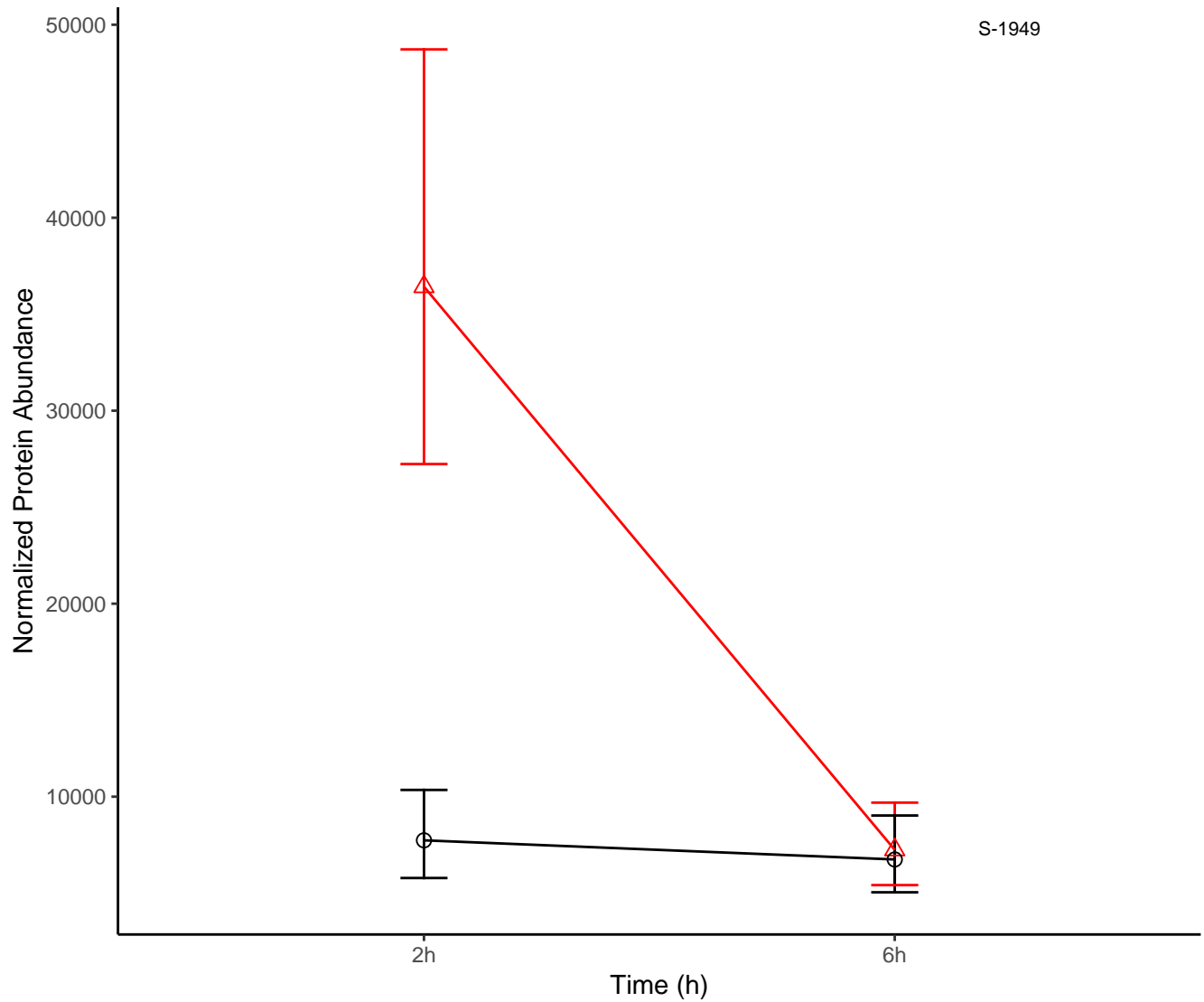


○ TSB-dex

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# UREE\_STAAM

S-1949

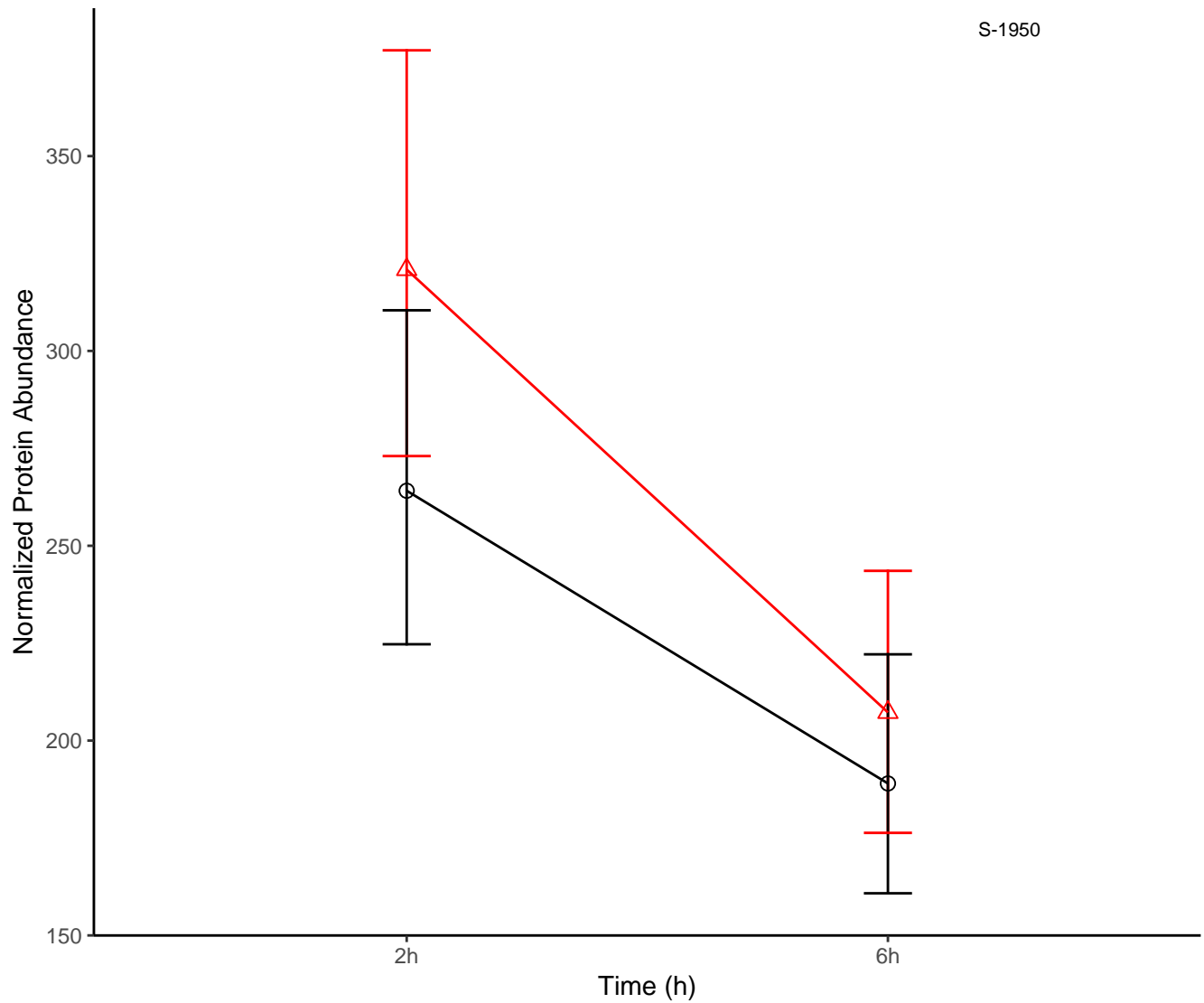


○ TSB-dex

△ TSB

# UREG\_STAAM

S-1950

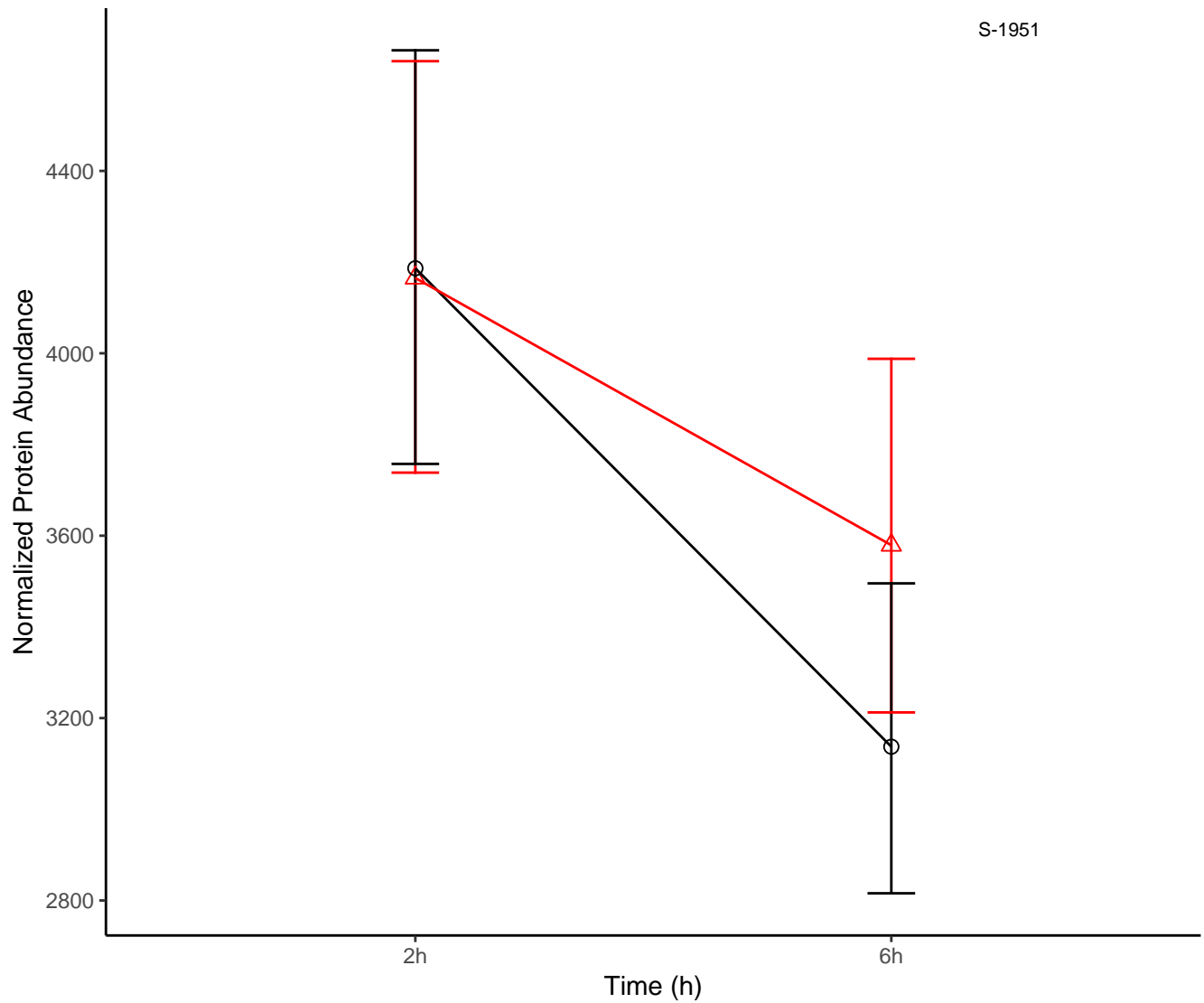


○ TSB-dex

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# URK\_STAAM

S-1951

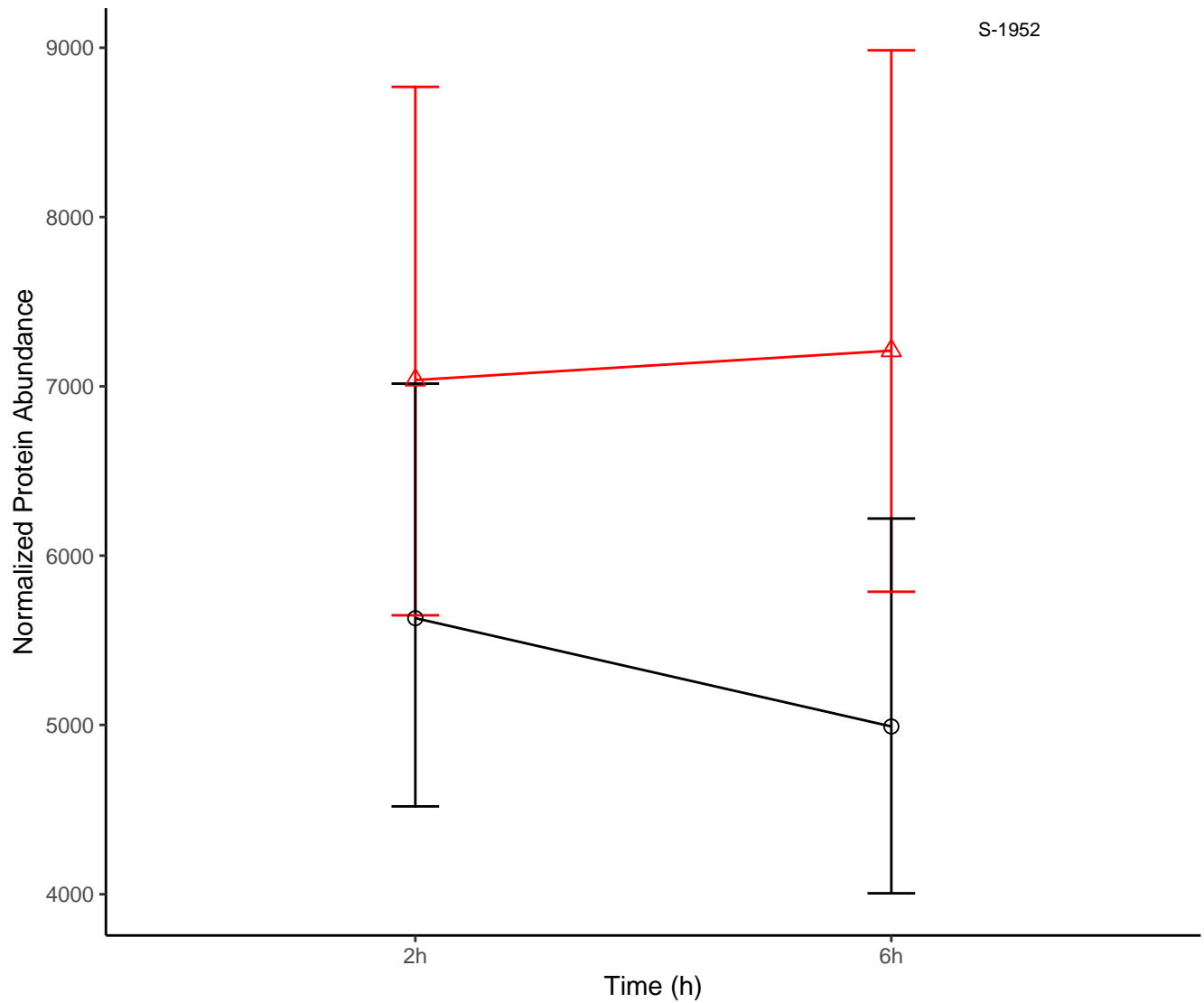


○ TSB-dex

△ TSB

# URTF\_STAAM

S-1952



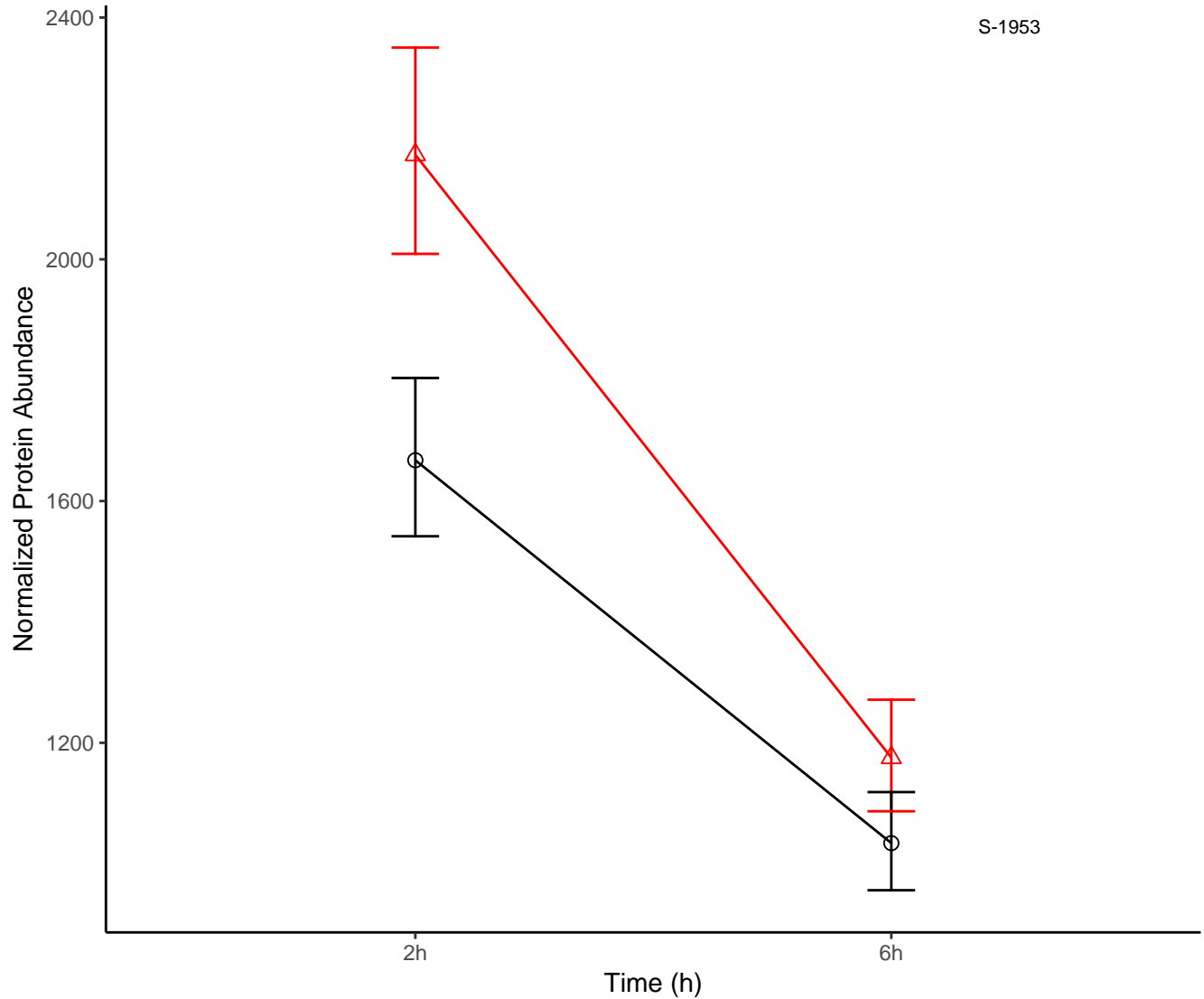
○ TSB-dex

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# UVRA\_STAAM

S-1953

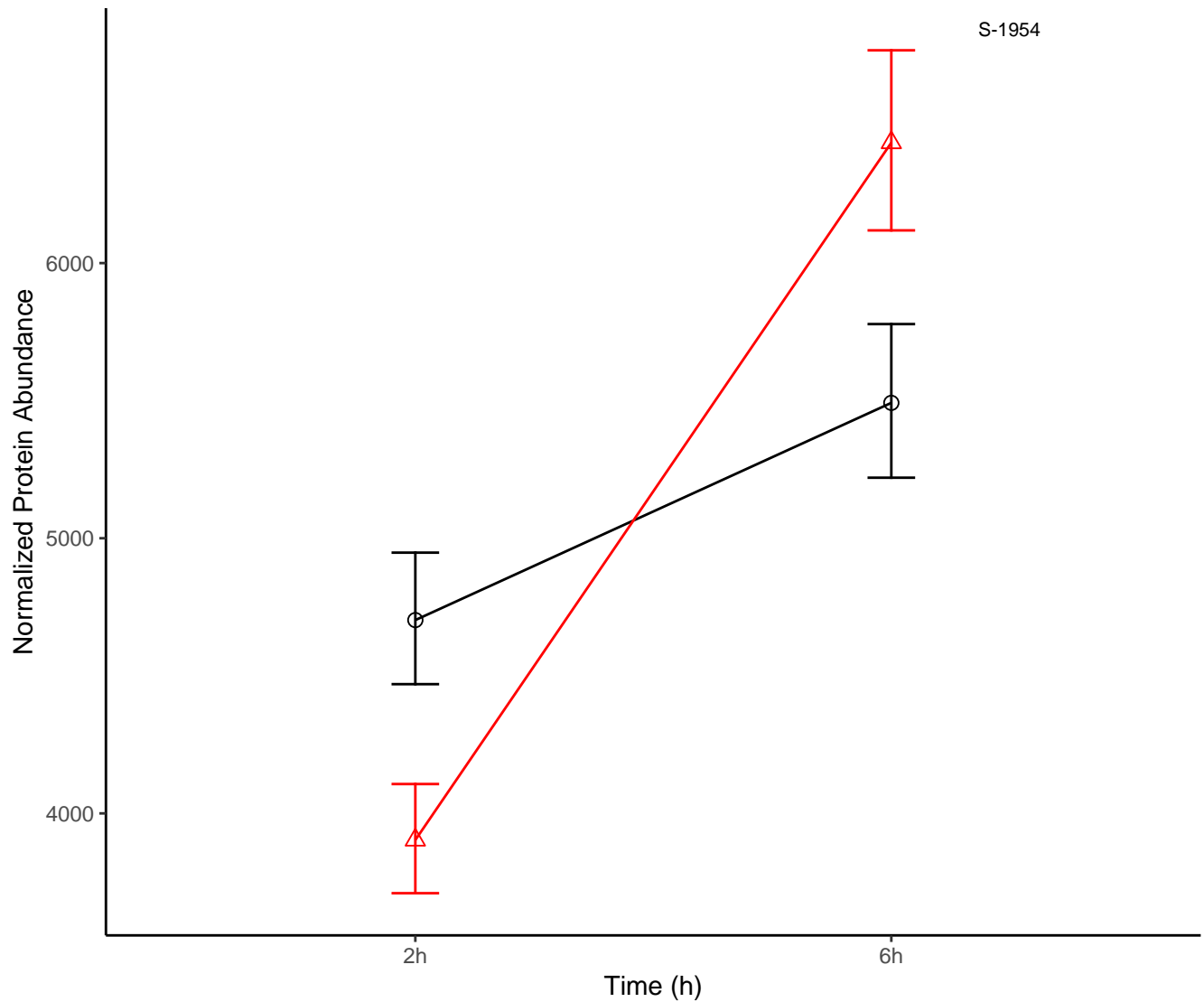


○ TSB-dex

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# VRAC\_STAAM

S-1954

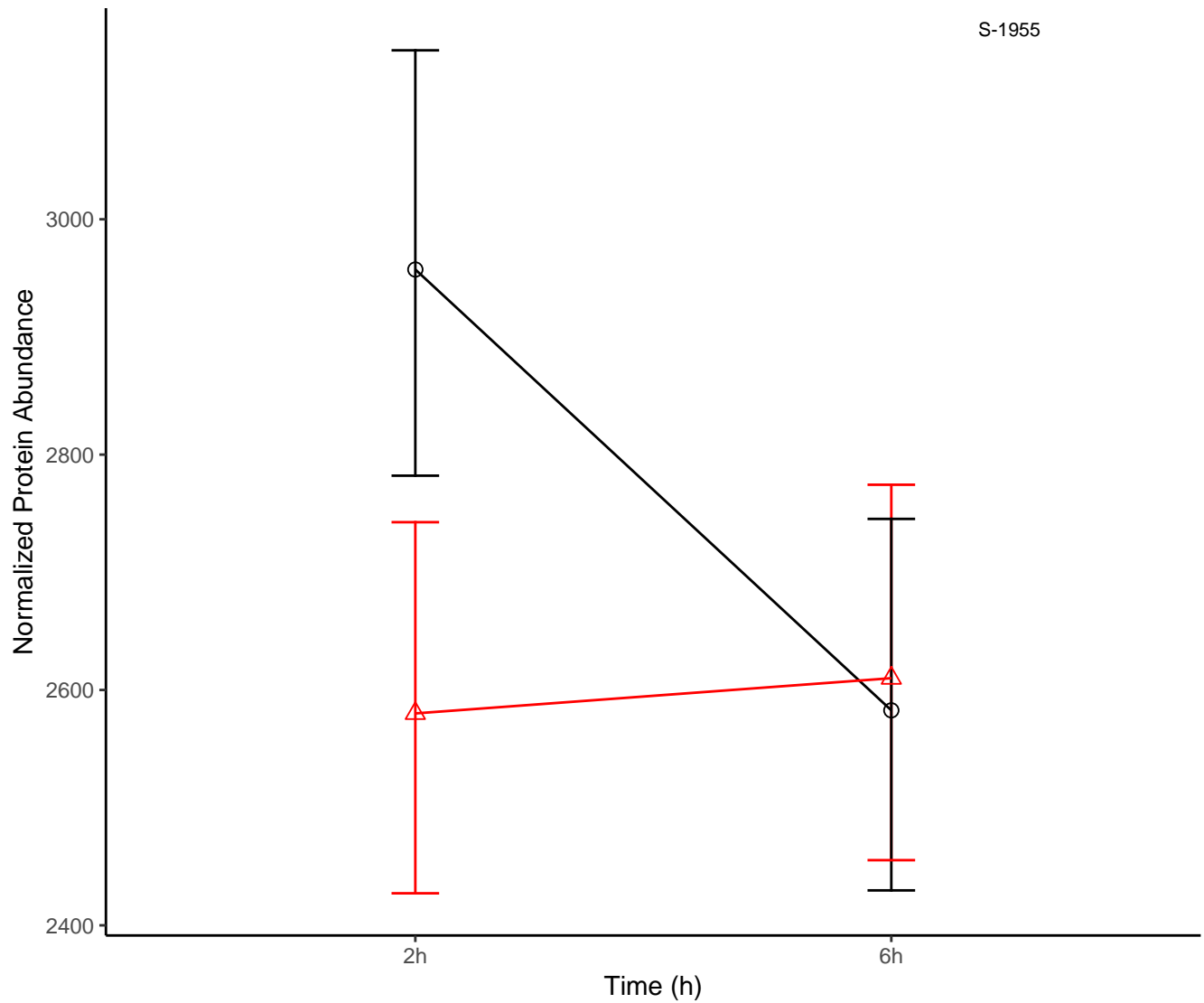


○ TSB-dex

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# VRAR\_STAAM

S-1955

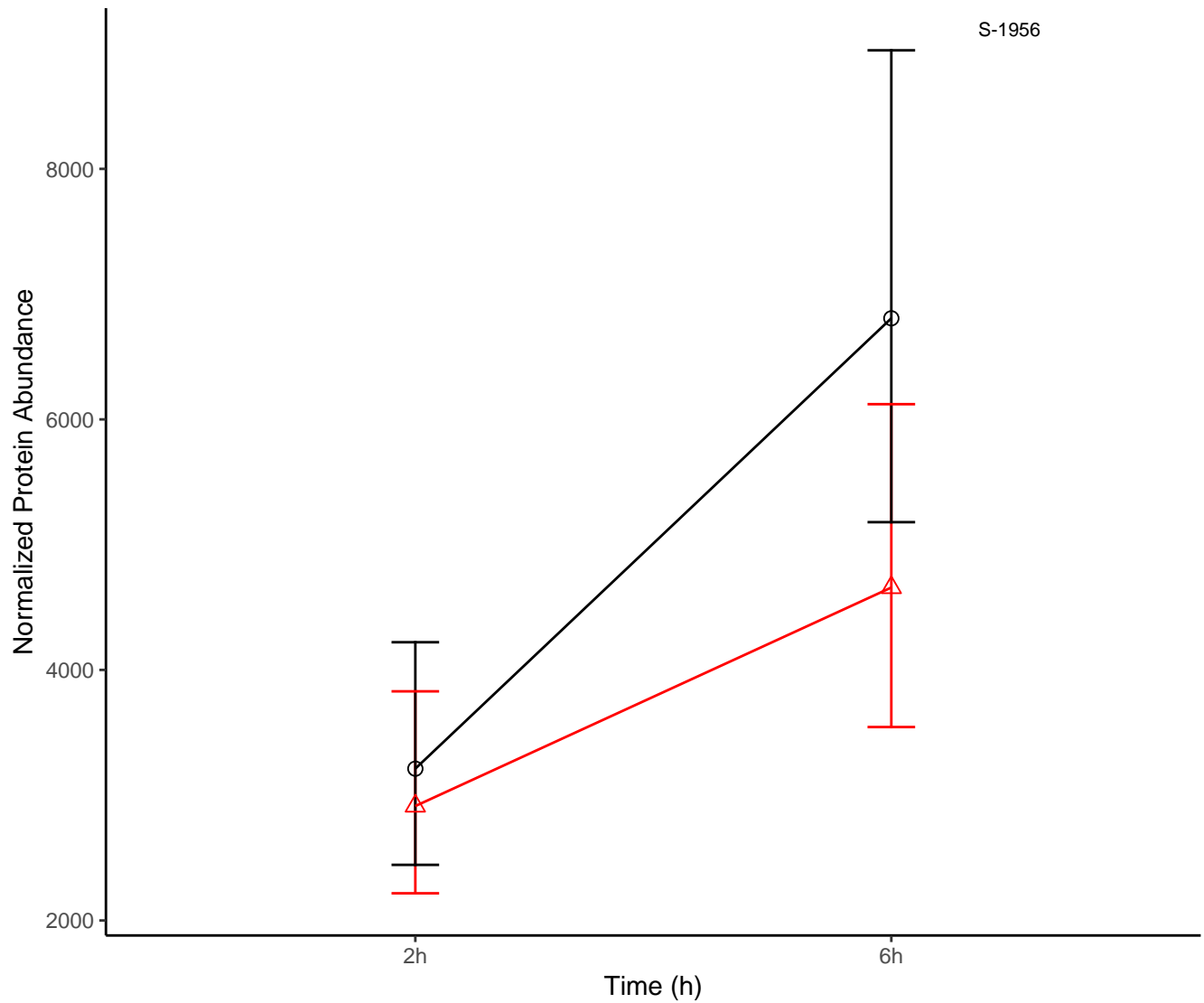


○ TSB-dex

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# WALK\_STAAM

S-1956

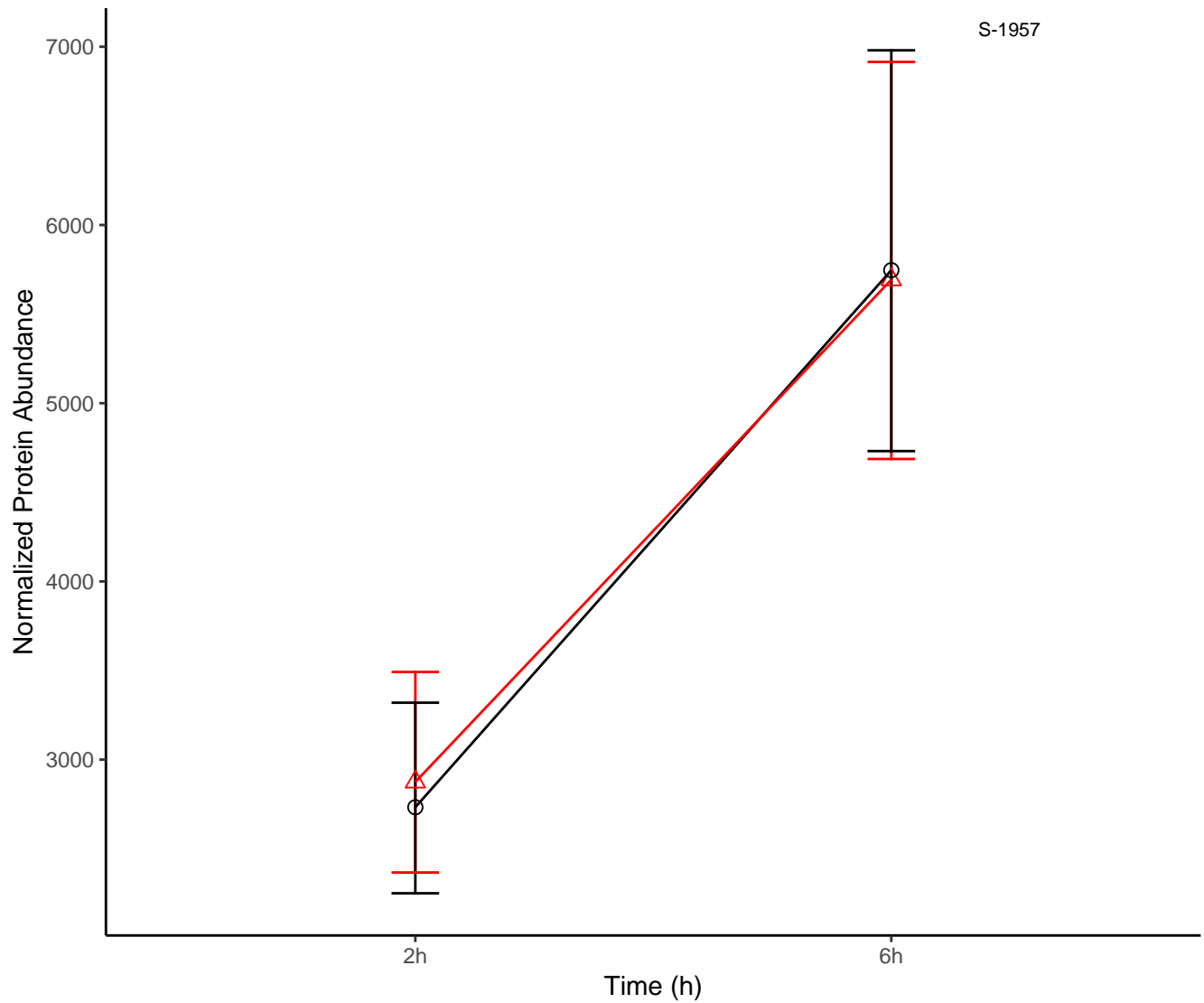


○ TSB-dex

△ TSB

# WALR\_STAAM

S-1957

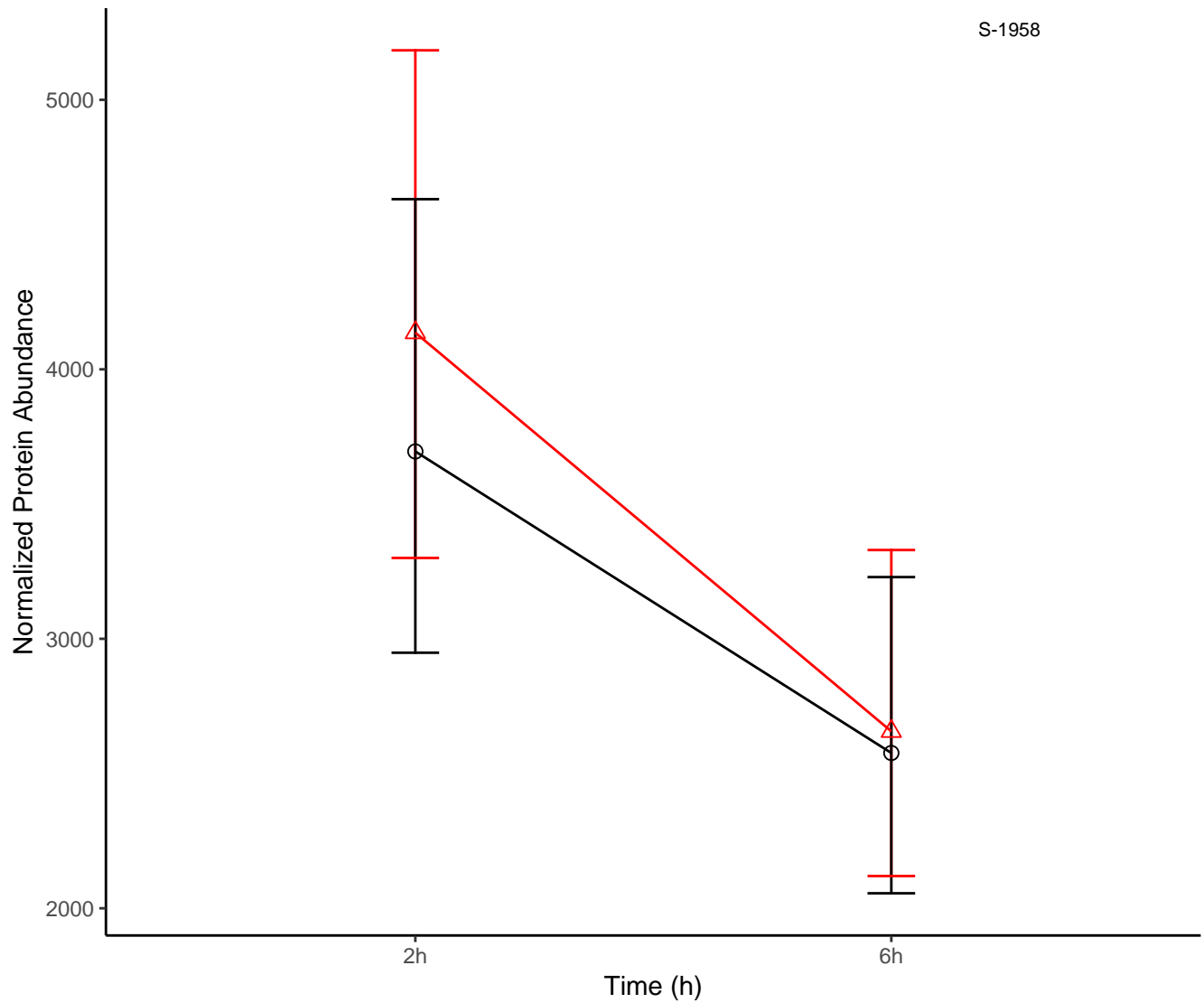


○ TSB-dex

△ TSB

# XERD\_STAAM

S-1958

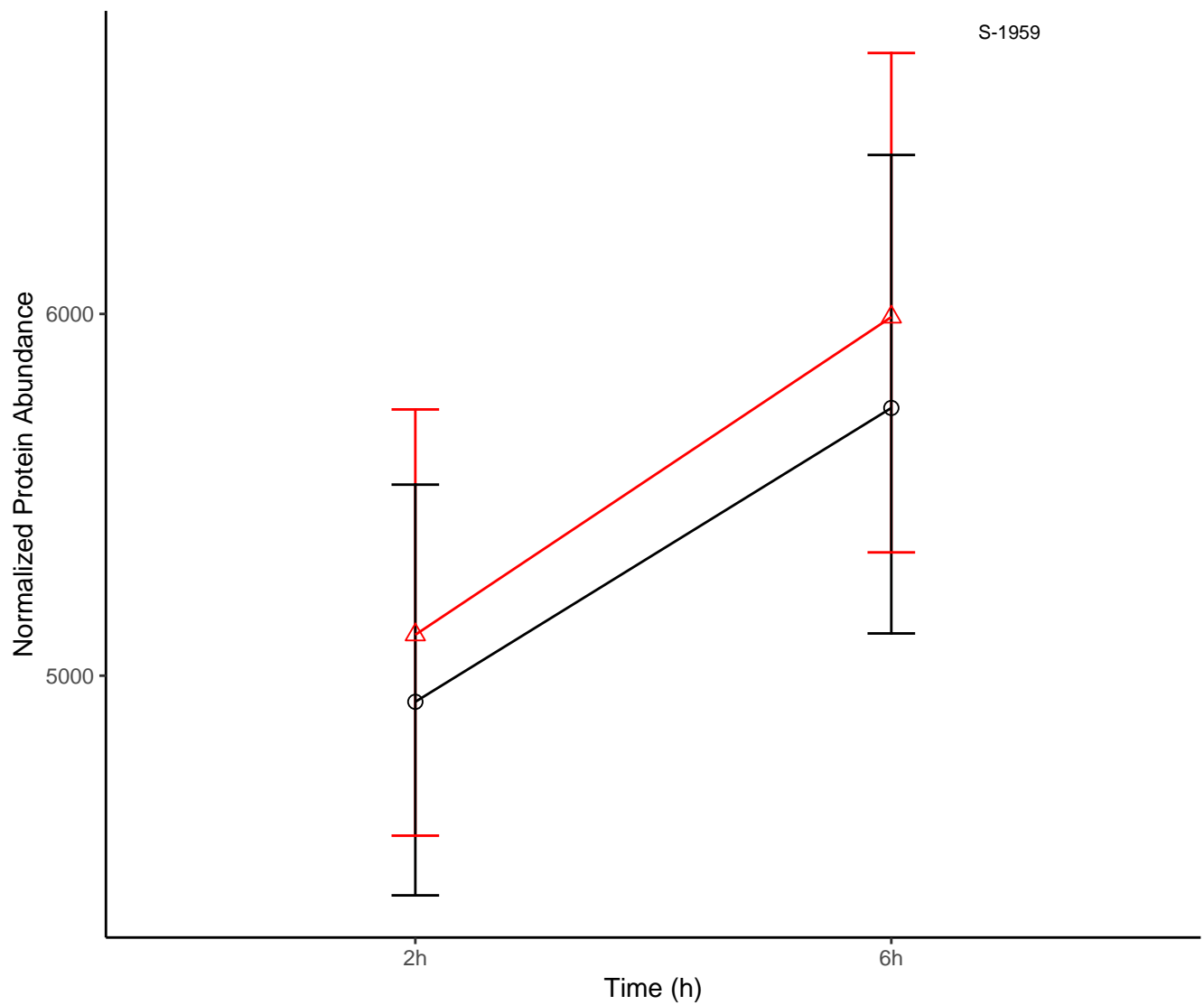


○ TSB-dex

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# XPT\_STAAM

S-1959

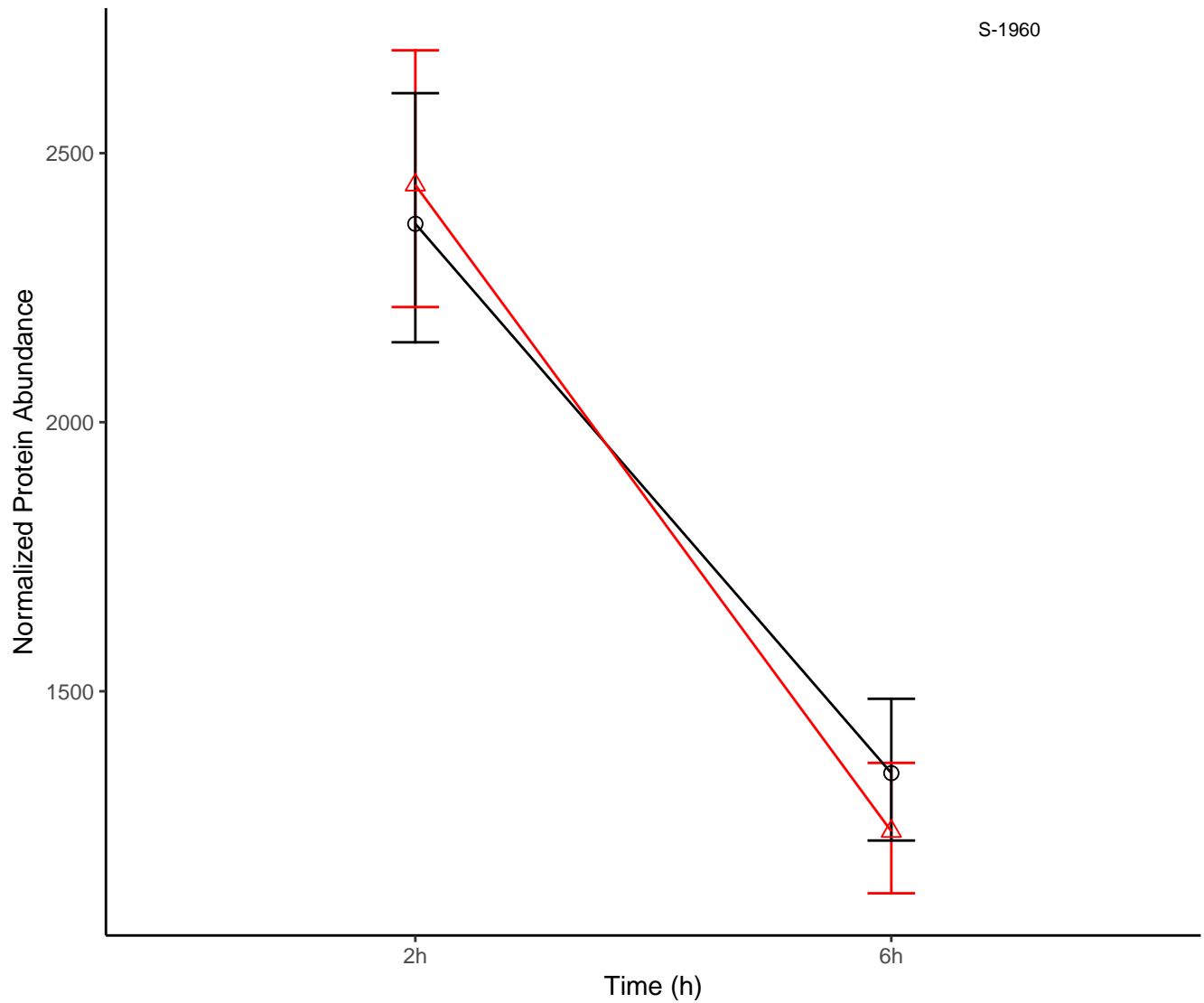


○ TSB-dex

△ TSB

# Y098\_STAAM

S-1960



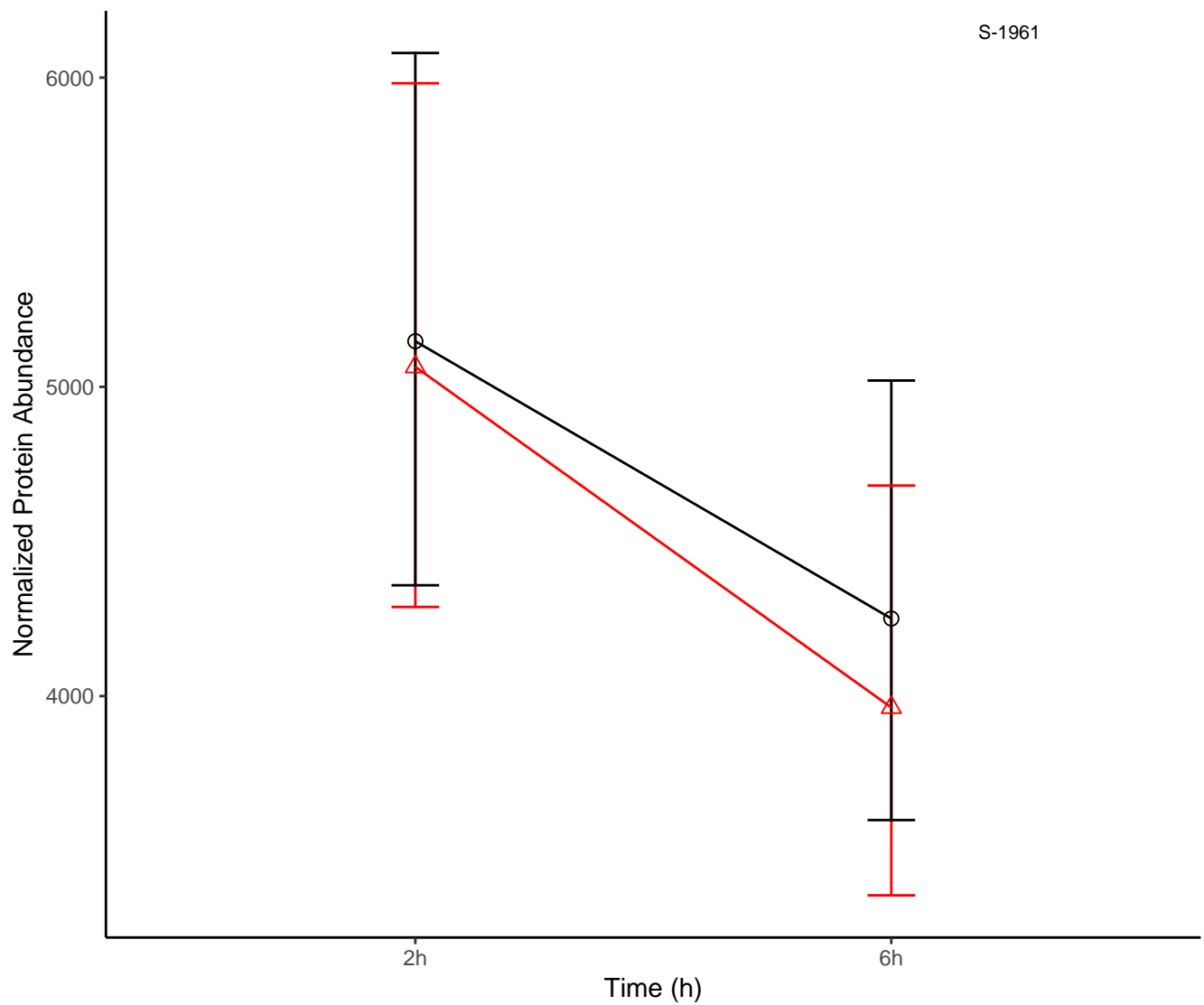
○ TSB-dex

△ TSB



# Y099\_STAAM

S-1961

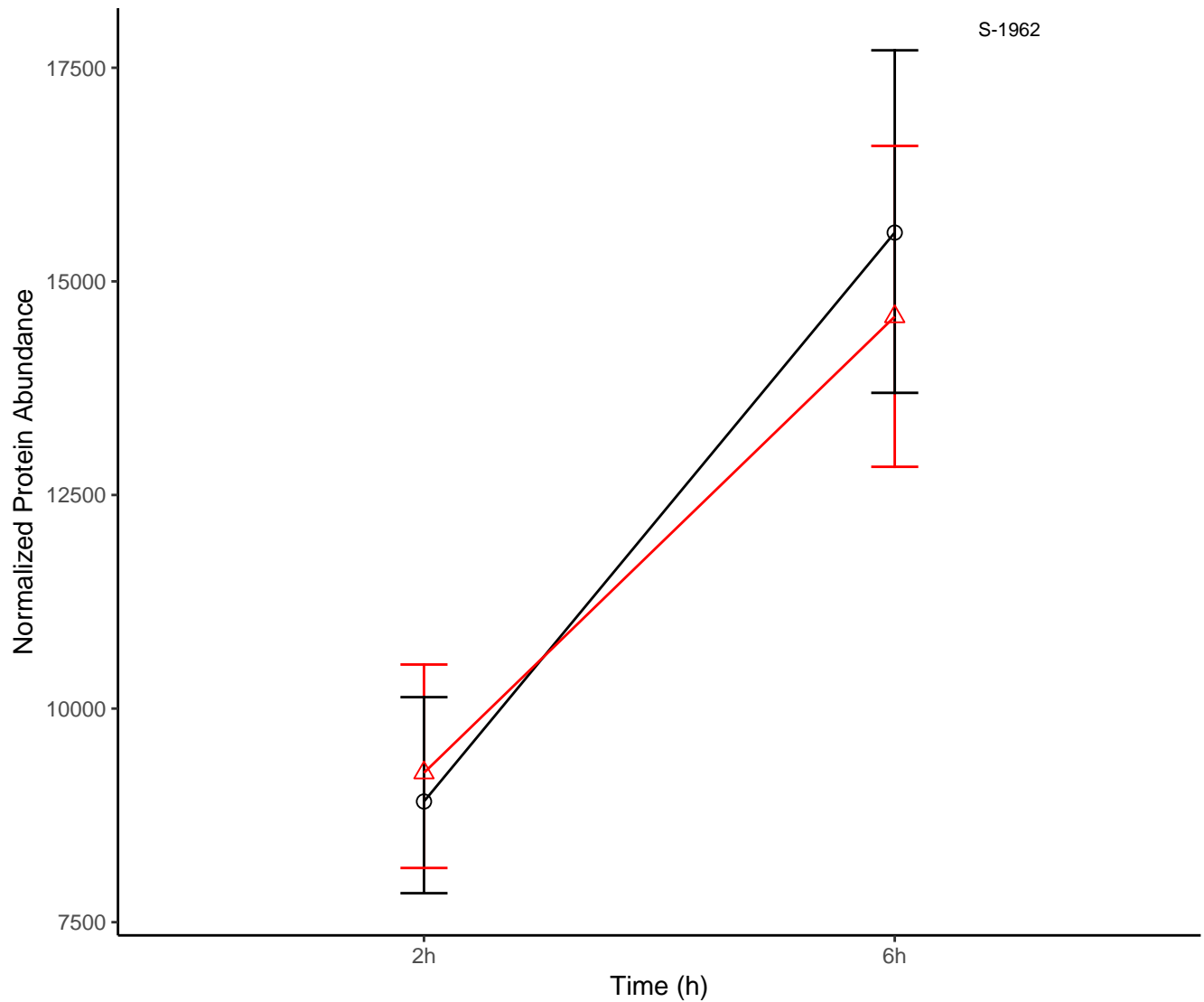


○ TSB-dex

△ TSB

# Y1015\_STAAM

S-1962

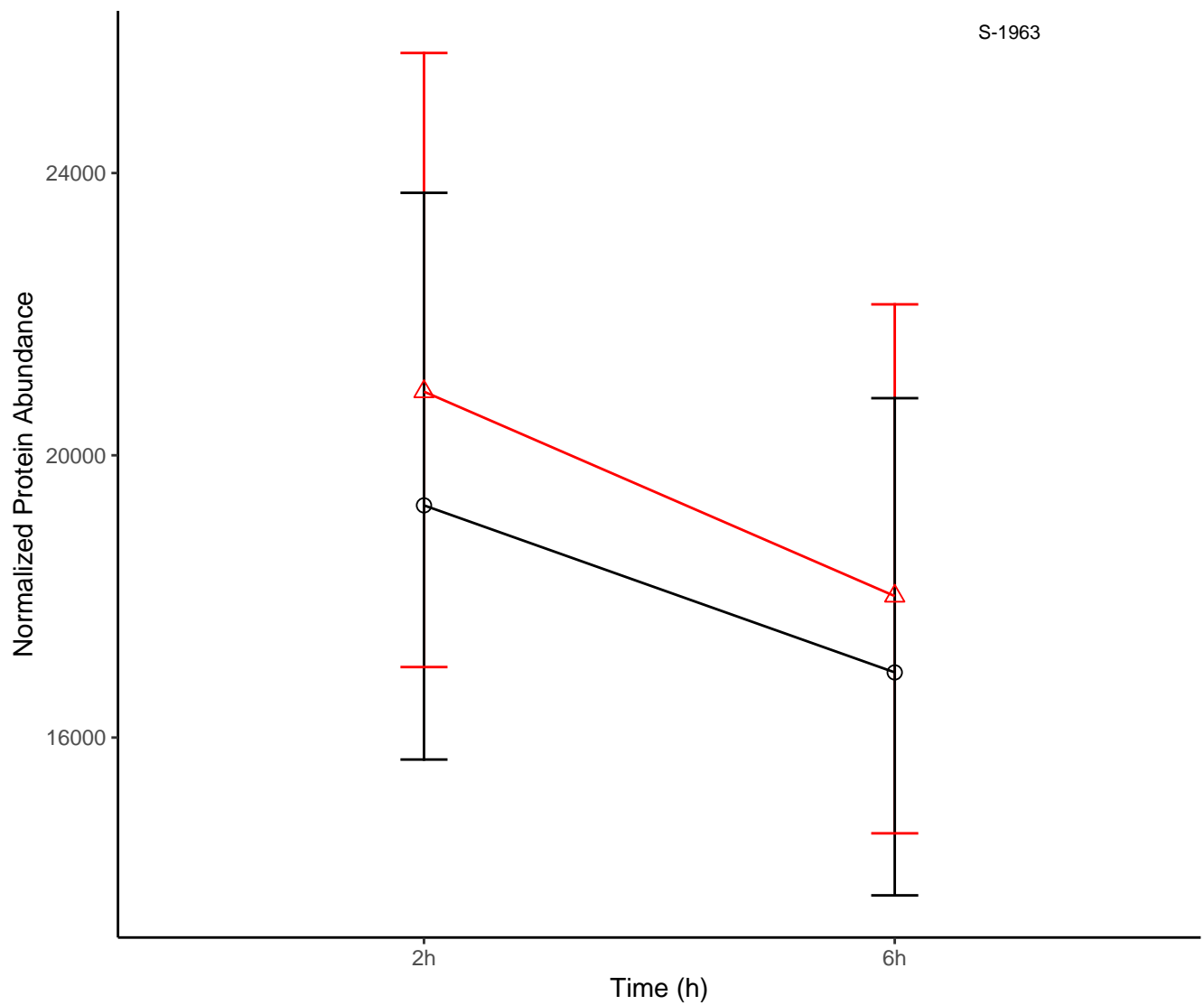


○ TSB-dex

△ TSB

# Y1090\_STAAM

S-1963



○ TSB-dex

△ TSB

# Y1176\_STAAM

S-1964

Normalized Protein Abundance

20000

15000

10000

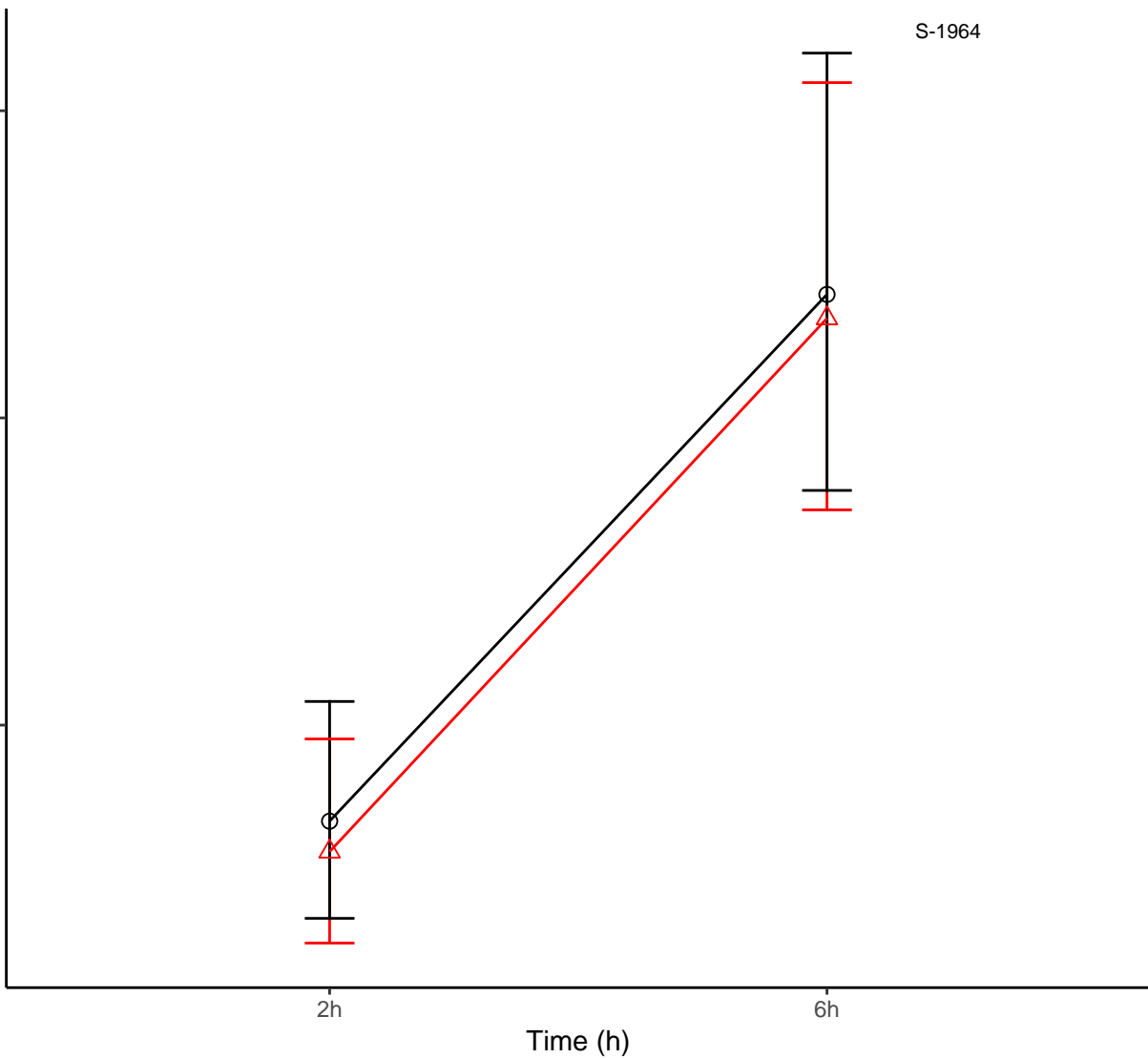
2h

6h

Time (h)

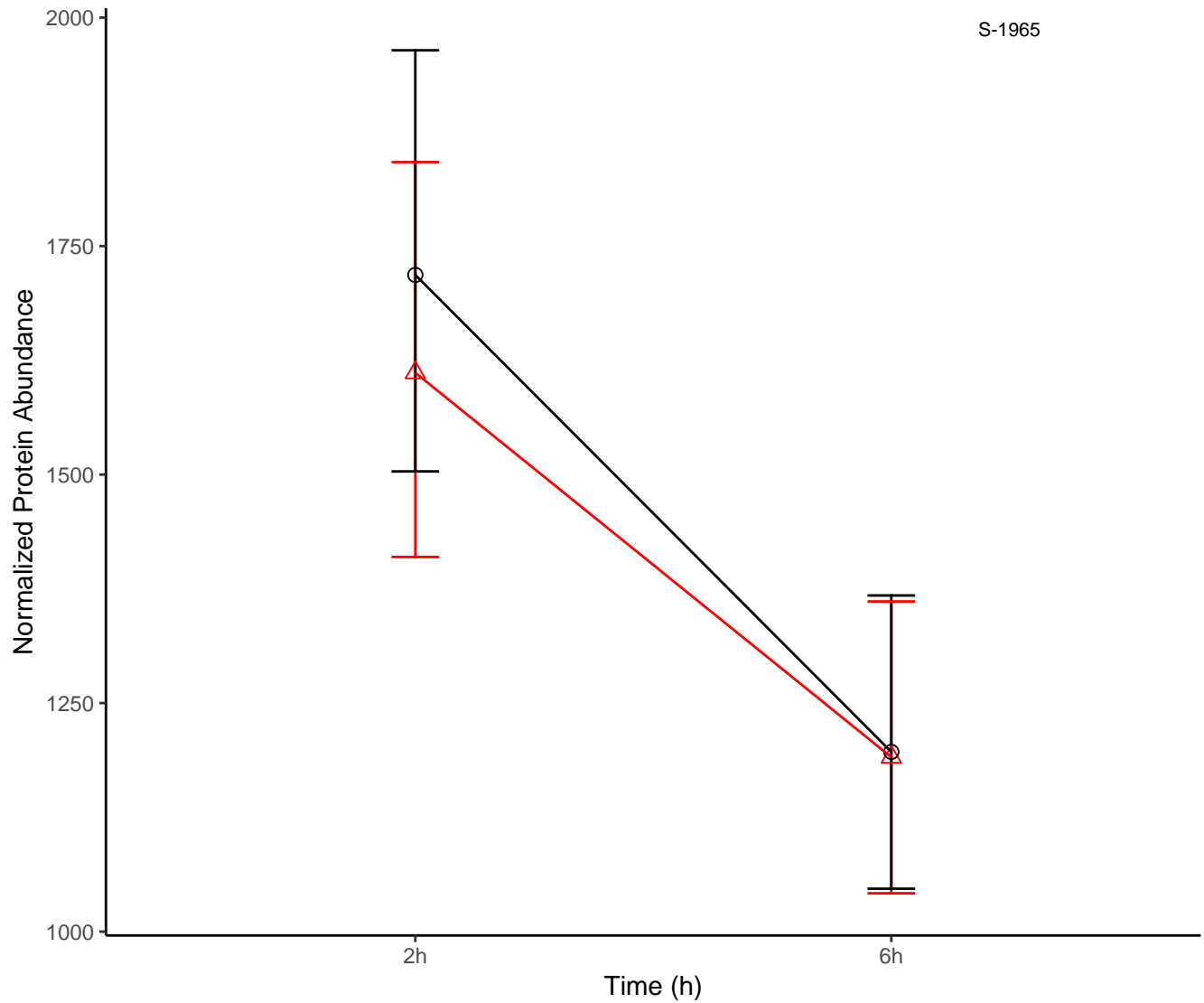
○ TSB-dex

△ TSB



# Y1177\_STAAM

S-1965

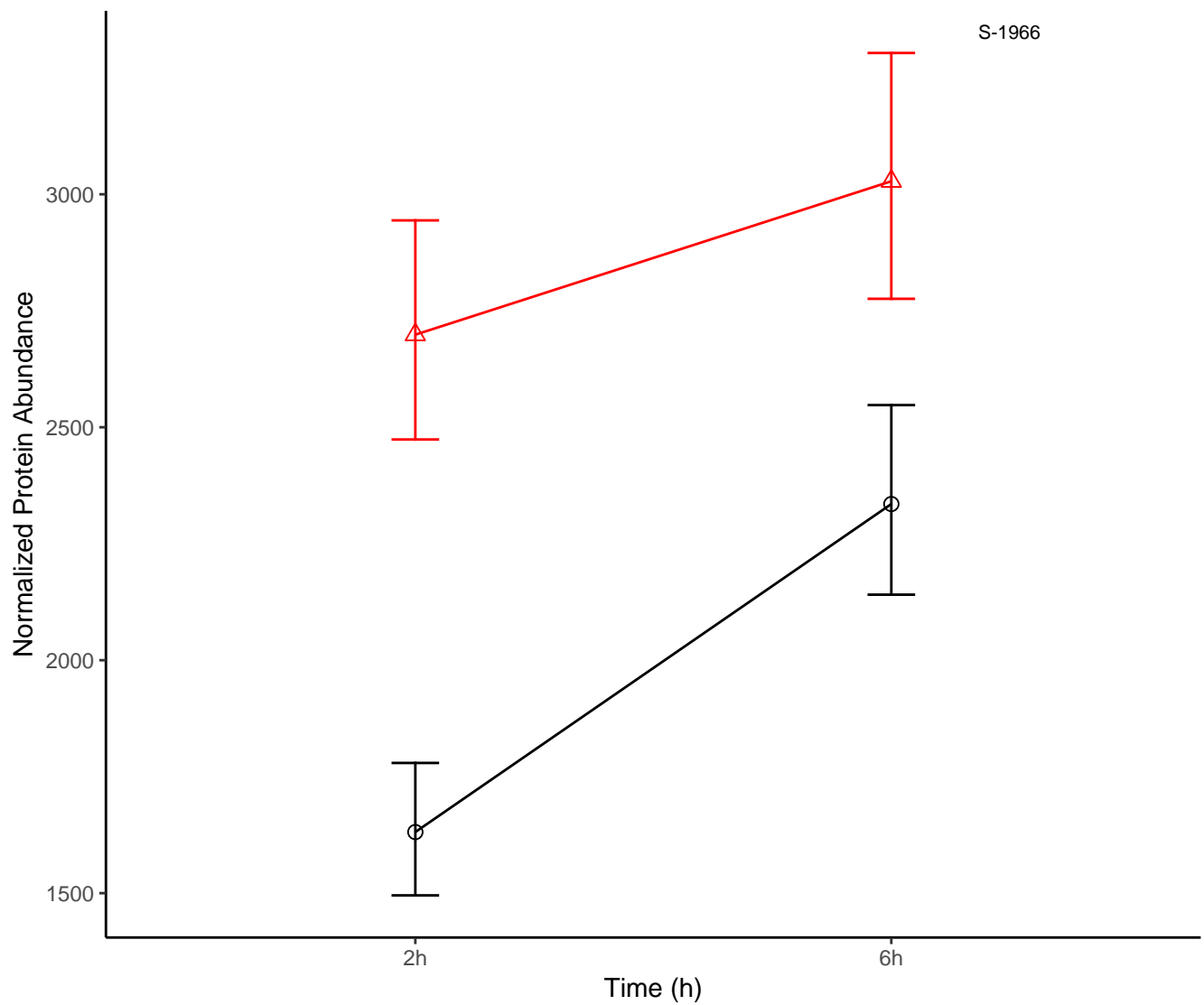


○ TSB-dex

△ TSB

# Y1187\_STAAM

S-1966

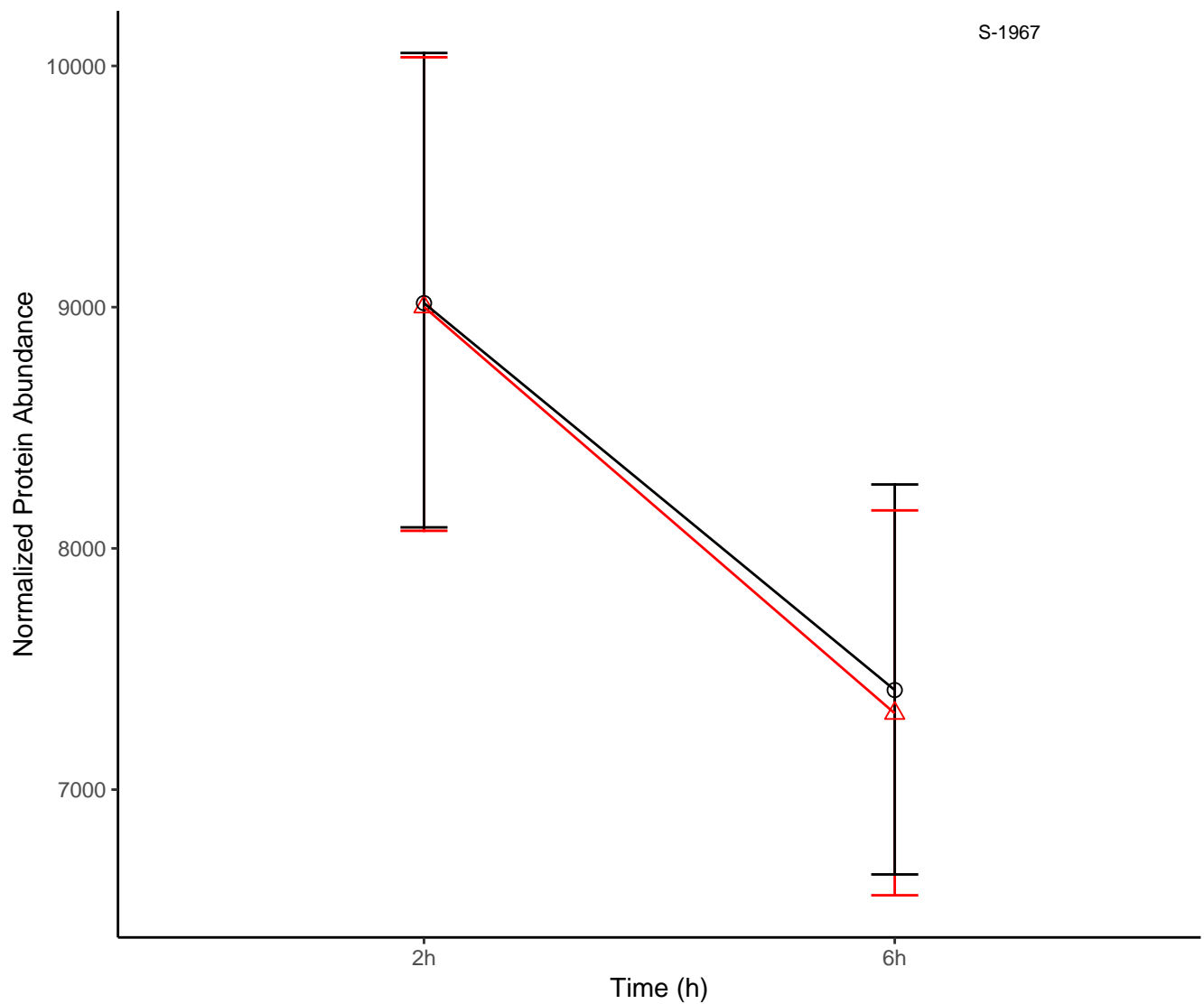


○ TSB-dex

△ TSB

# Y1226\_STAAM

S-1967

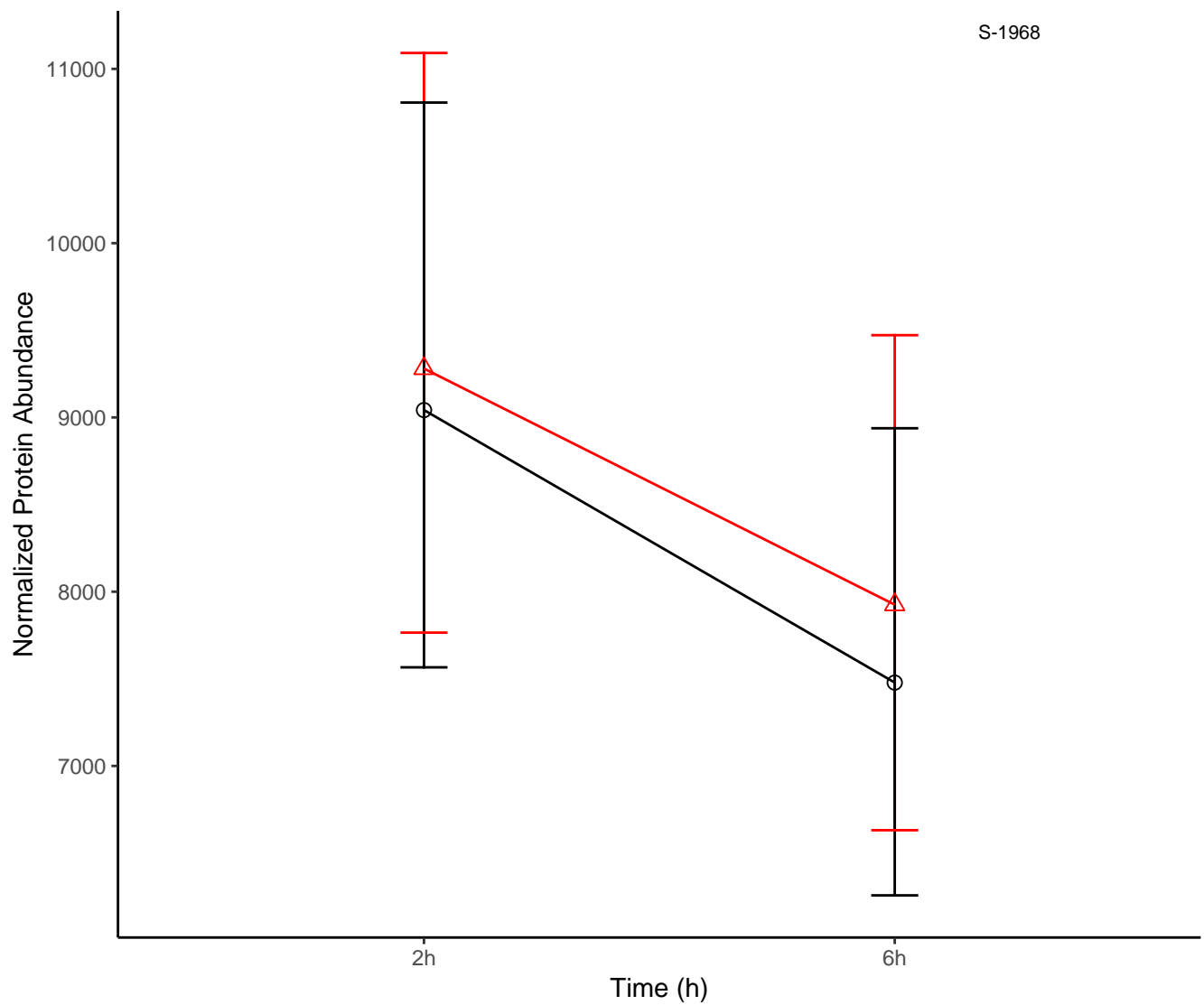


○ TSB-dex

△ TSB

# Y1341\_STAAM

S-1968



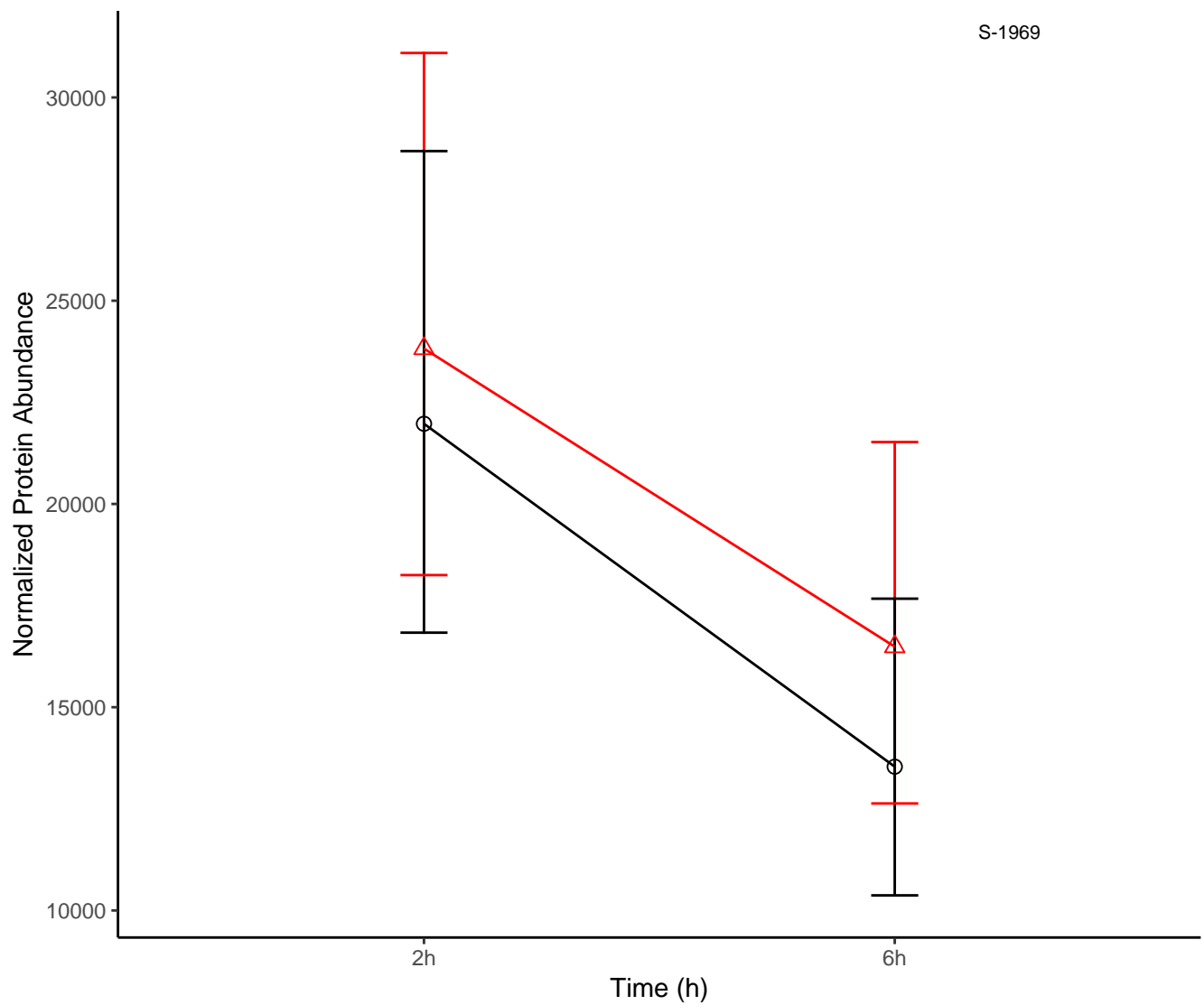
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△ TSB



# Y1343\_STAAM

S-1969

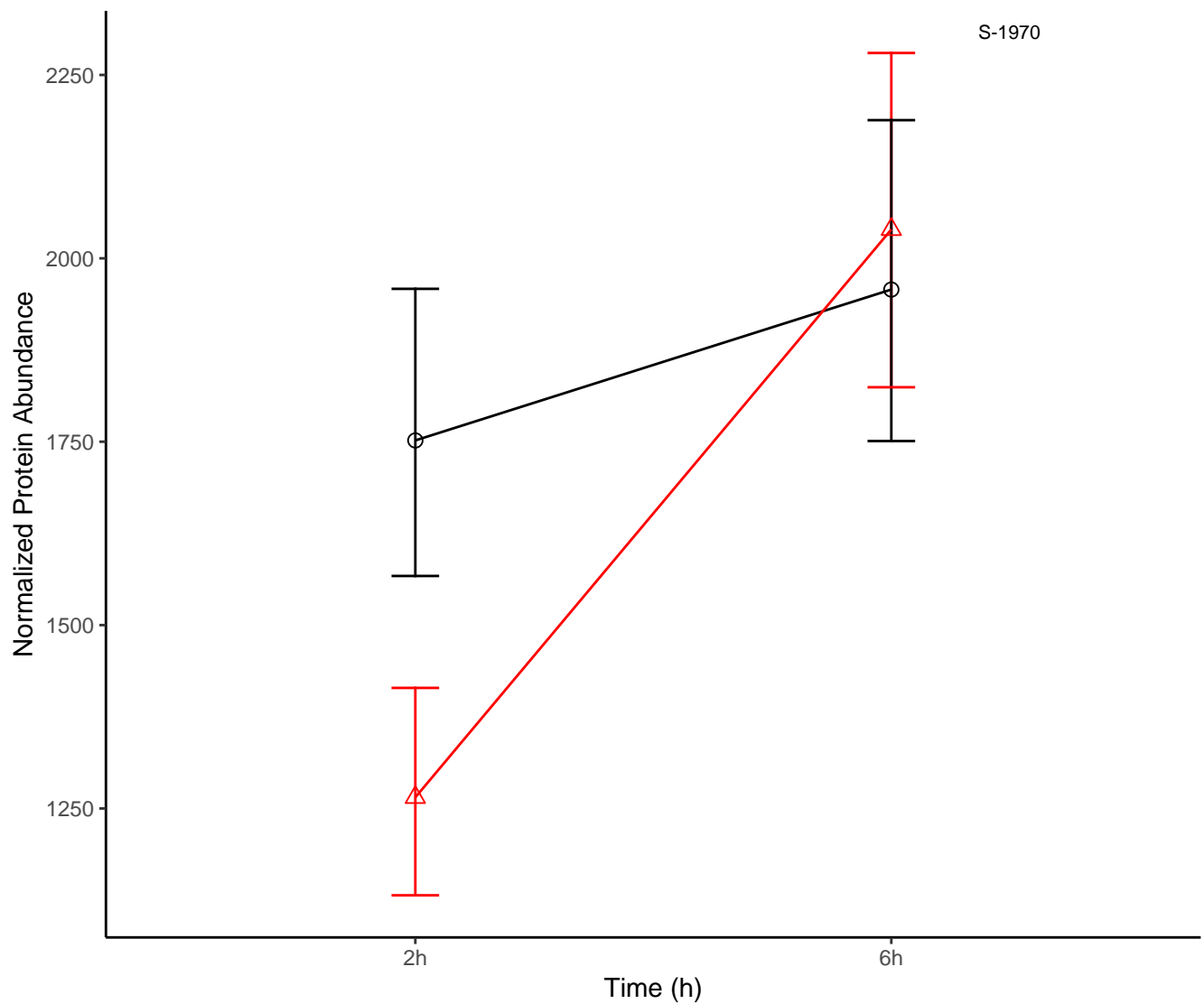


○ TSB-dex

△ TSB

# Y1352\_STAAM

S-1970

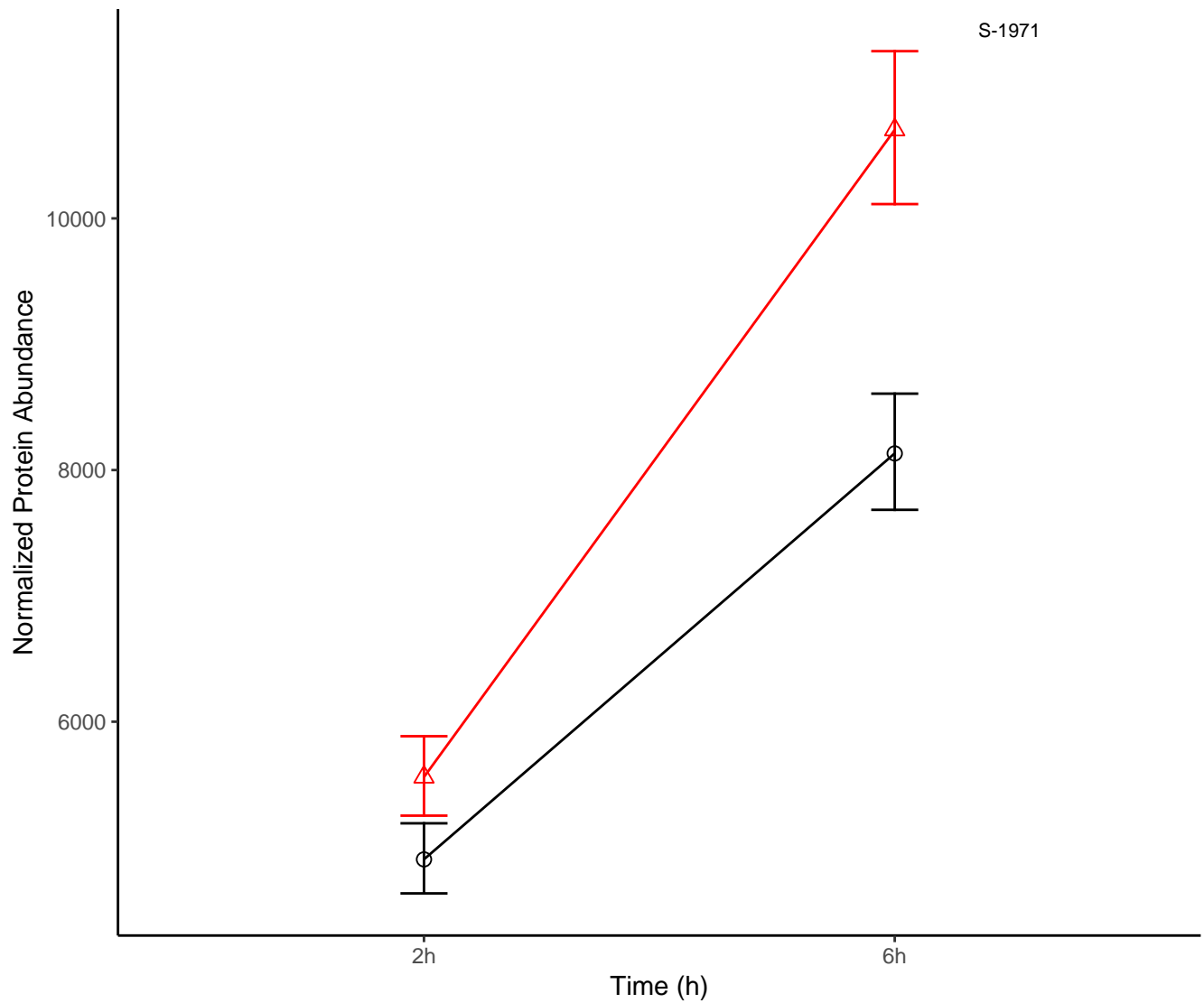


○ TSB-dex

△ TSB

# Y1363\_STAAM

S-1971

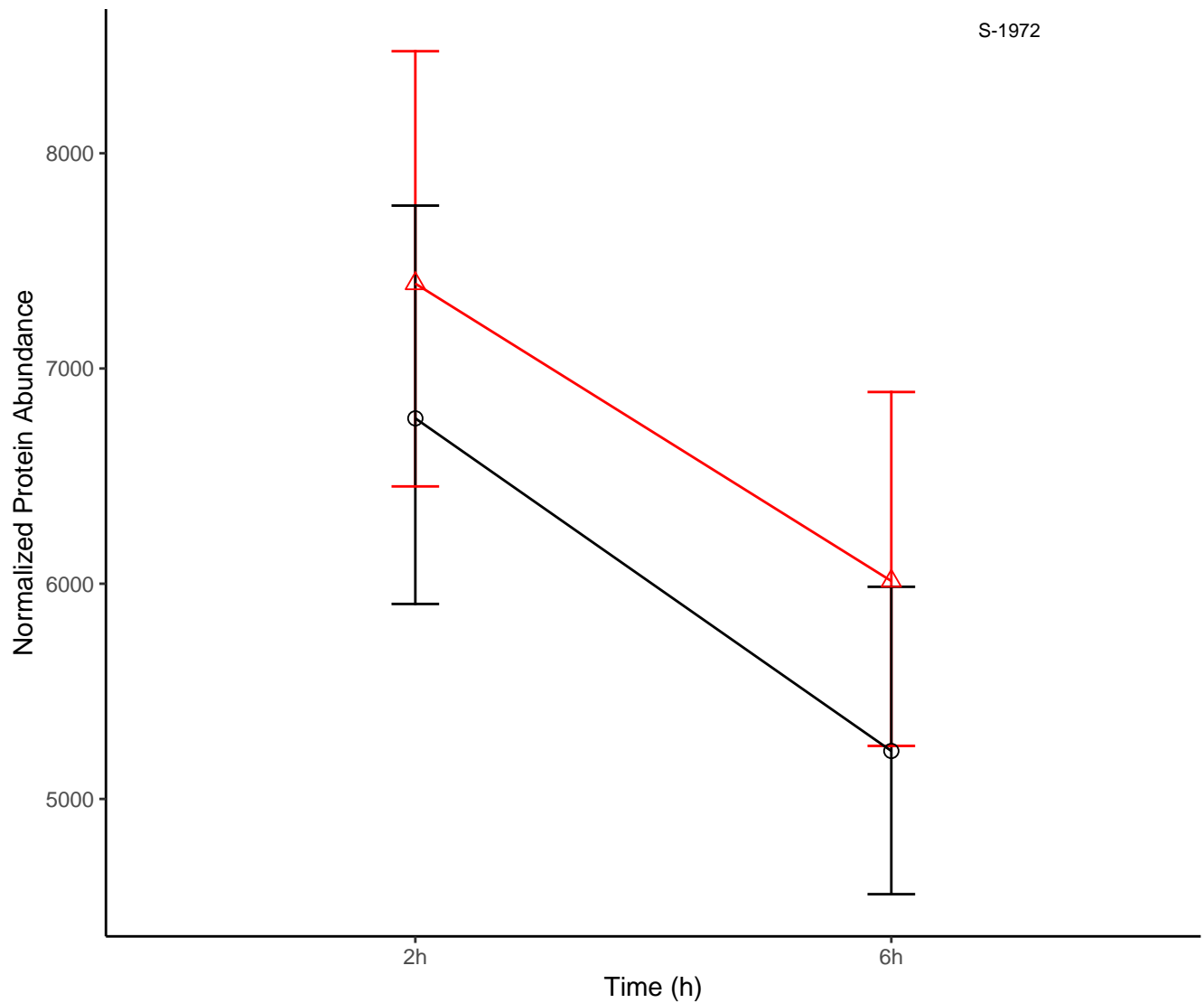


○ TSB-dex

△ TSB

# Y1409\_STAAM

S-1972

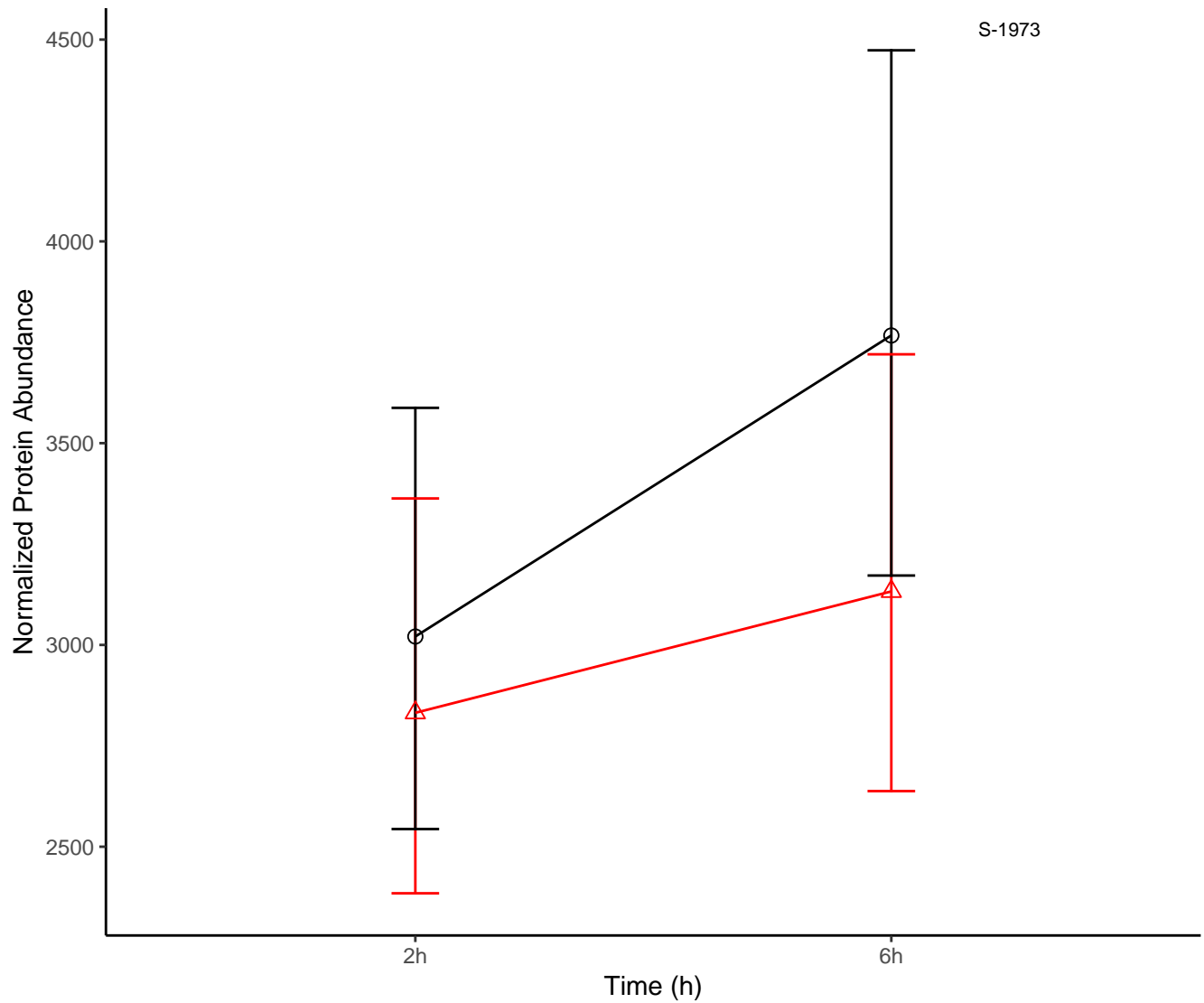


○ TSB-dex

△ TSB

# Y1425\_STAAM

S-1973

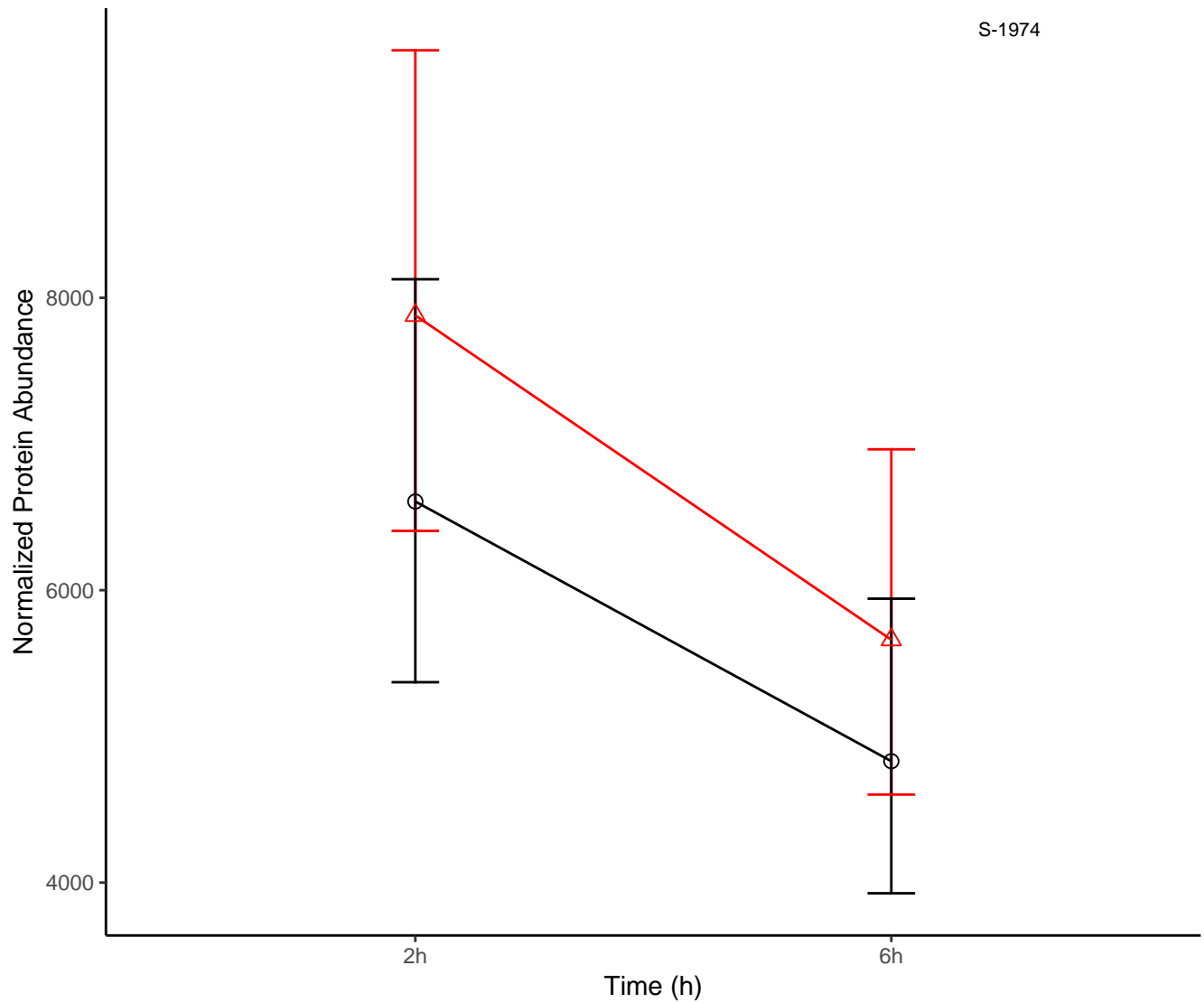


○ TSB-dex

△ TSB

# Y1462\_STAAM

S-1974

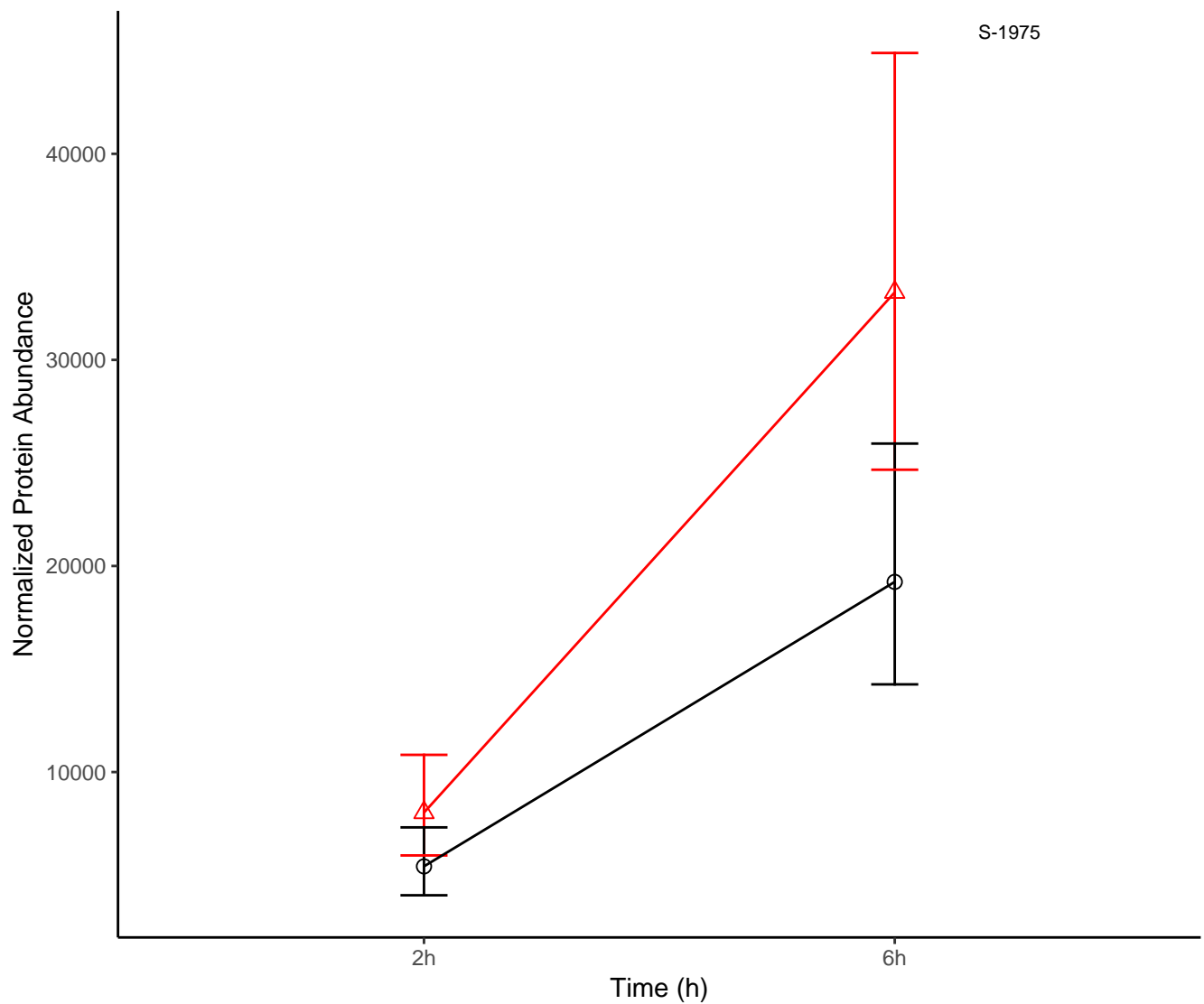


○ TSB-dex

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# Y1514\_STAAM

S-1975

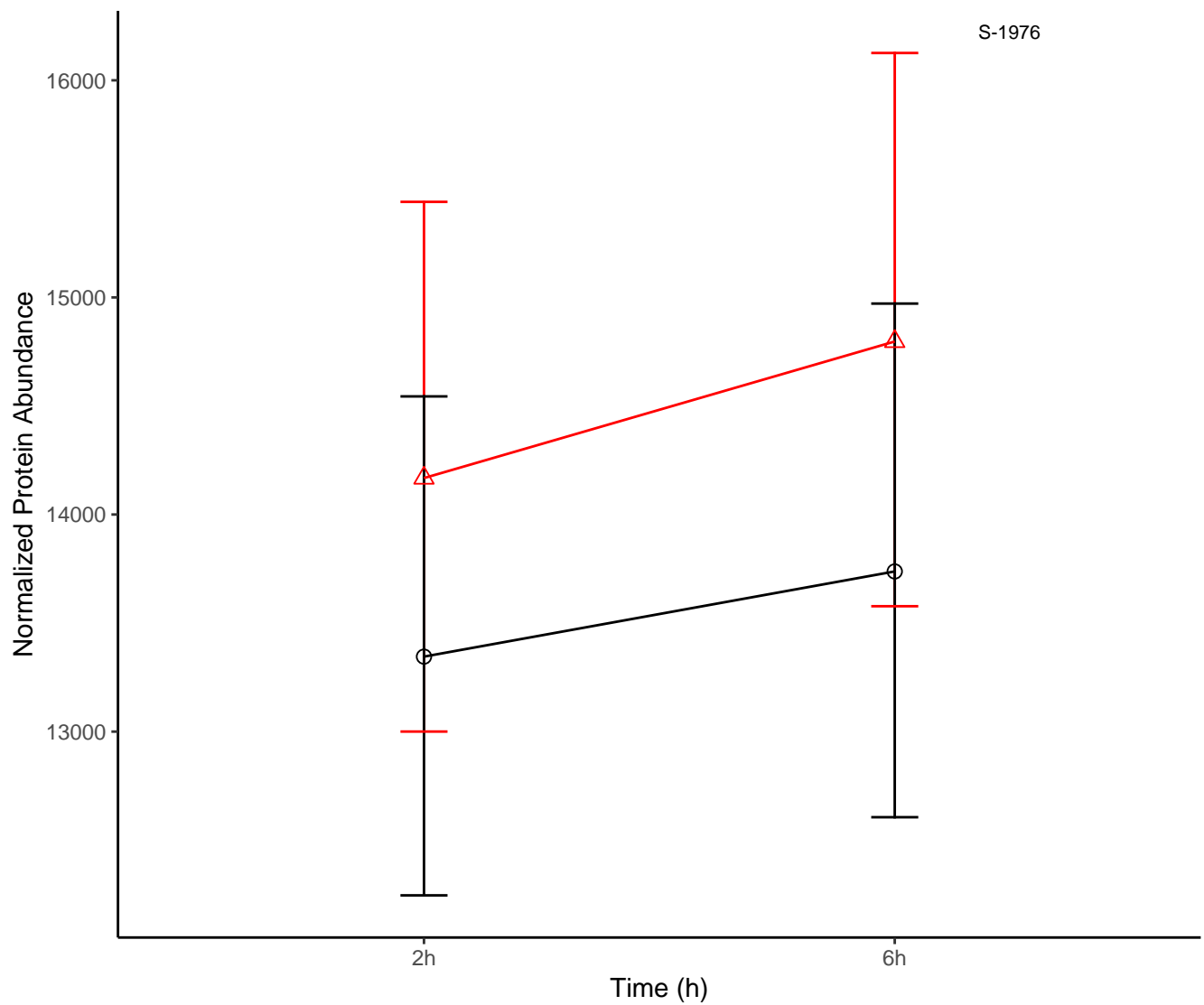


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# Y1573\_STAAM

S-1976



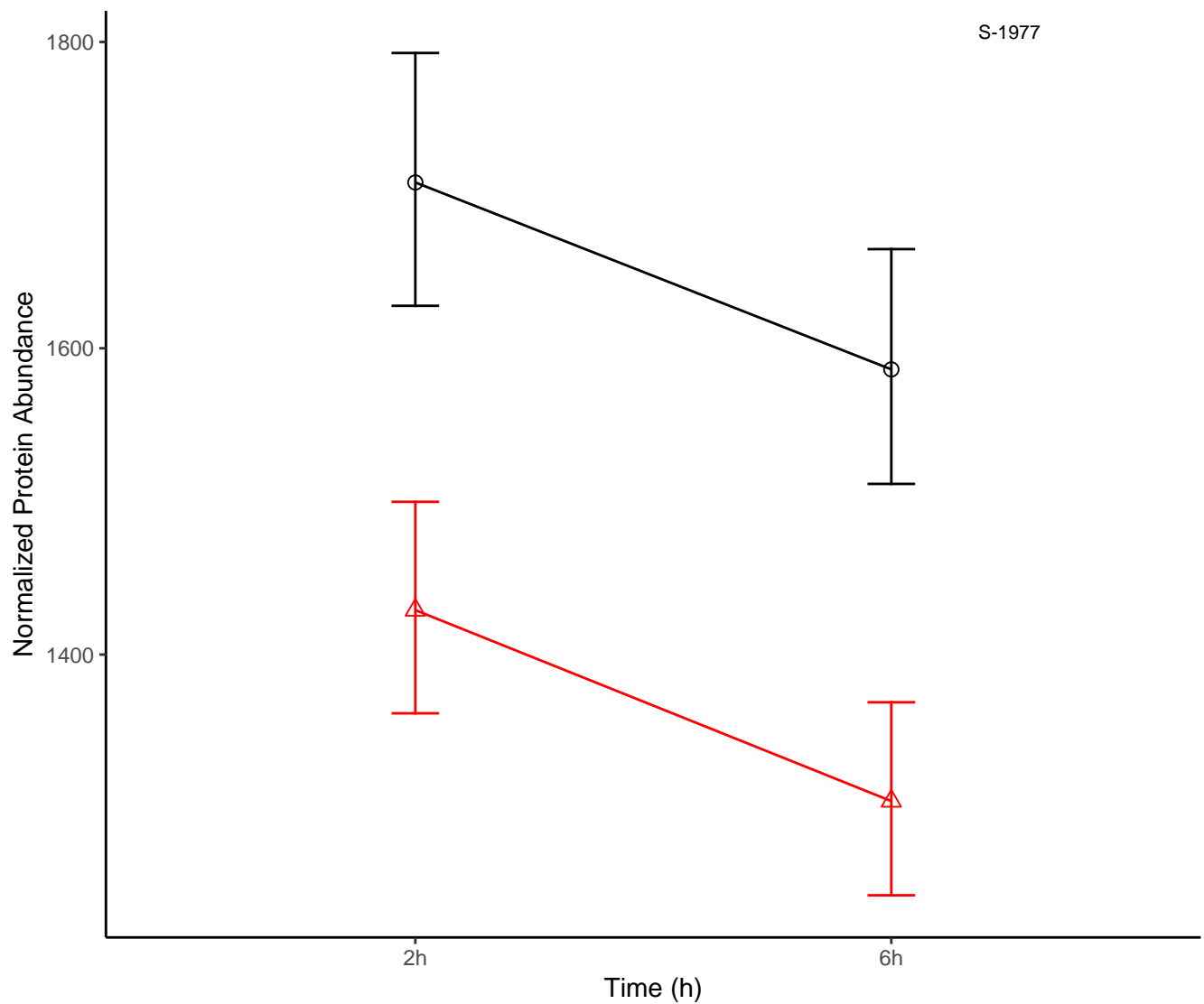
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# Y1605\_STAAM

S-1977

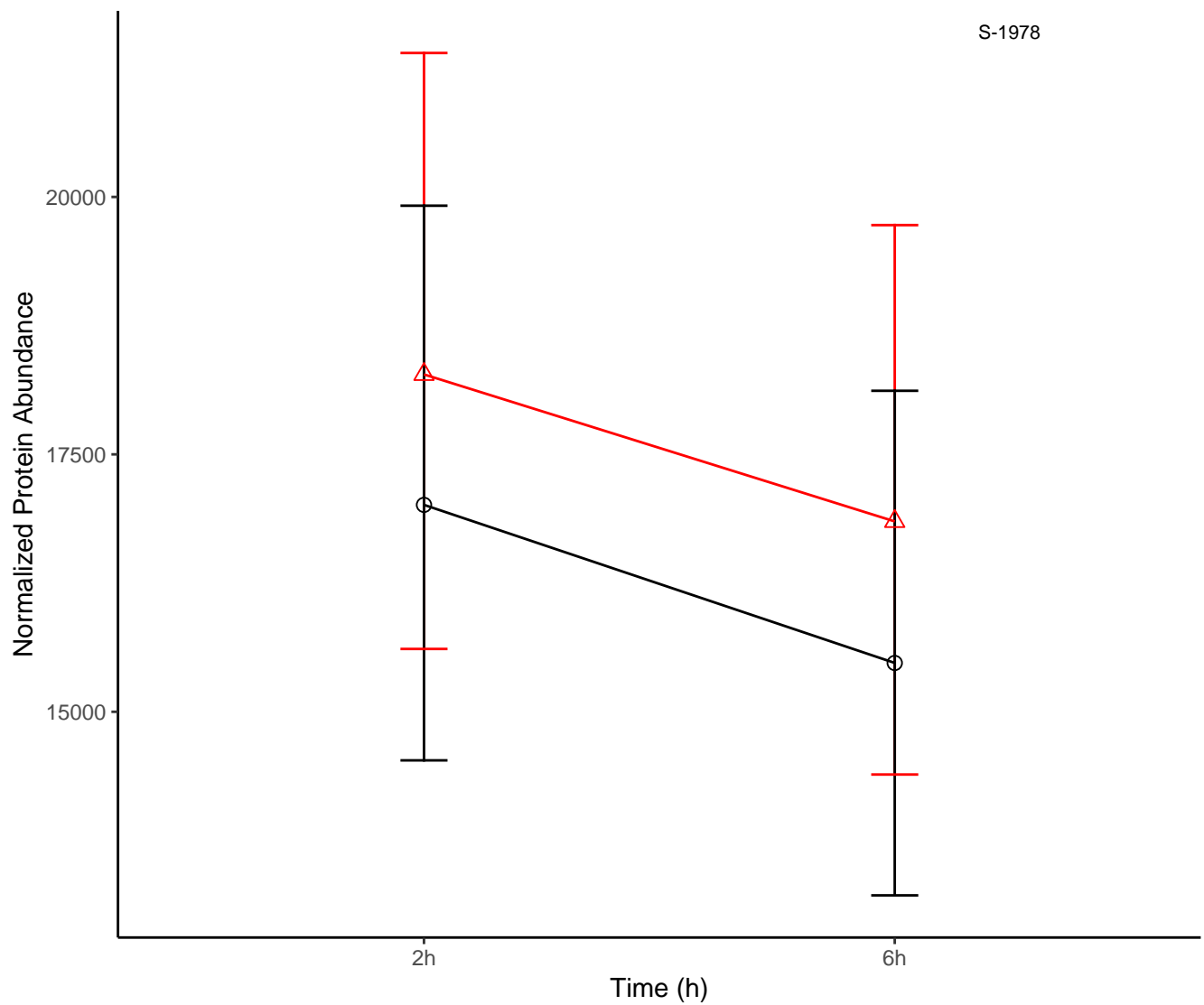


○ TSB-dex

△ TSB

# Y1617\_STAAM

S-1978

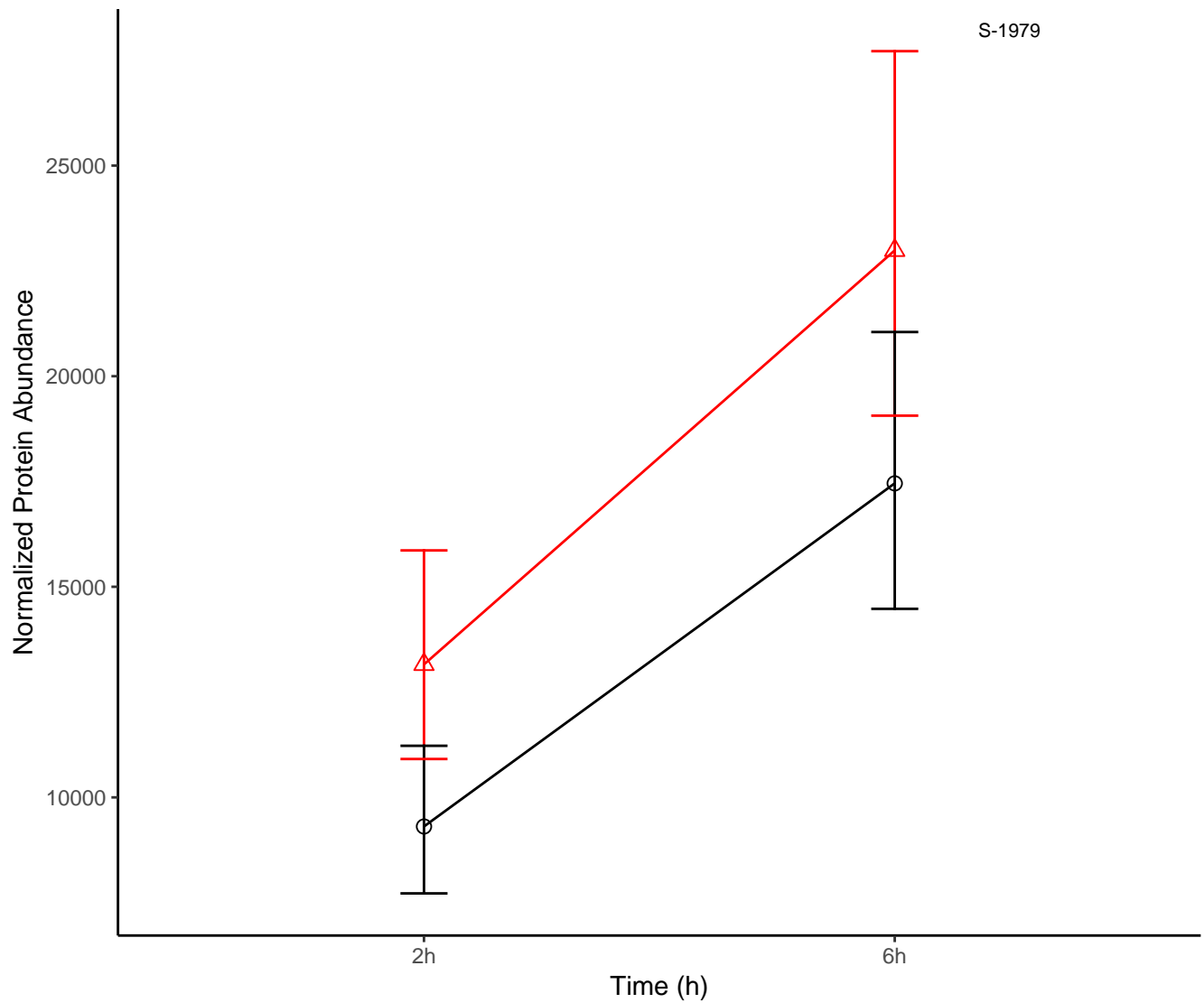


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# Y1625\_STAAM

S-1979

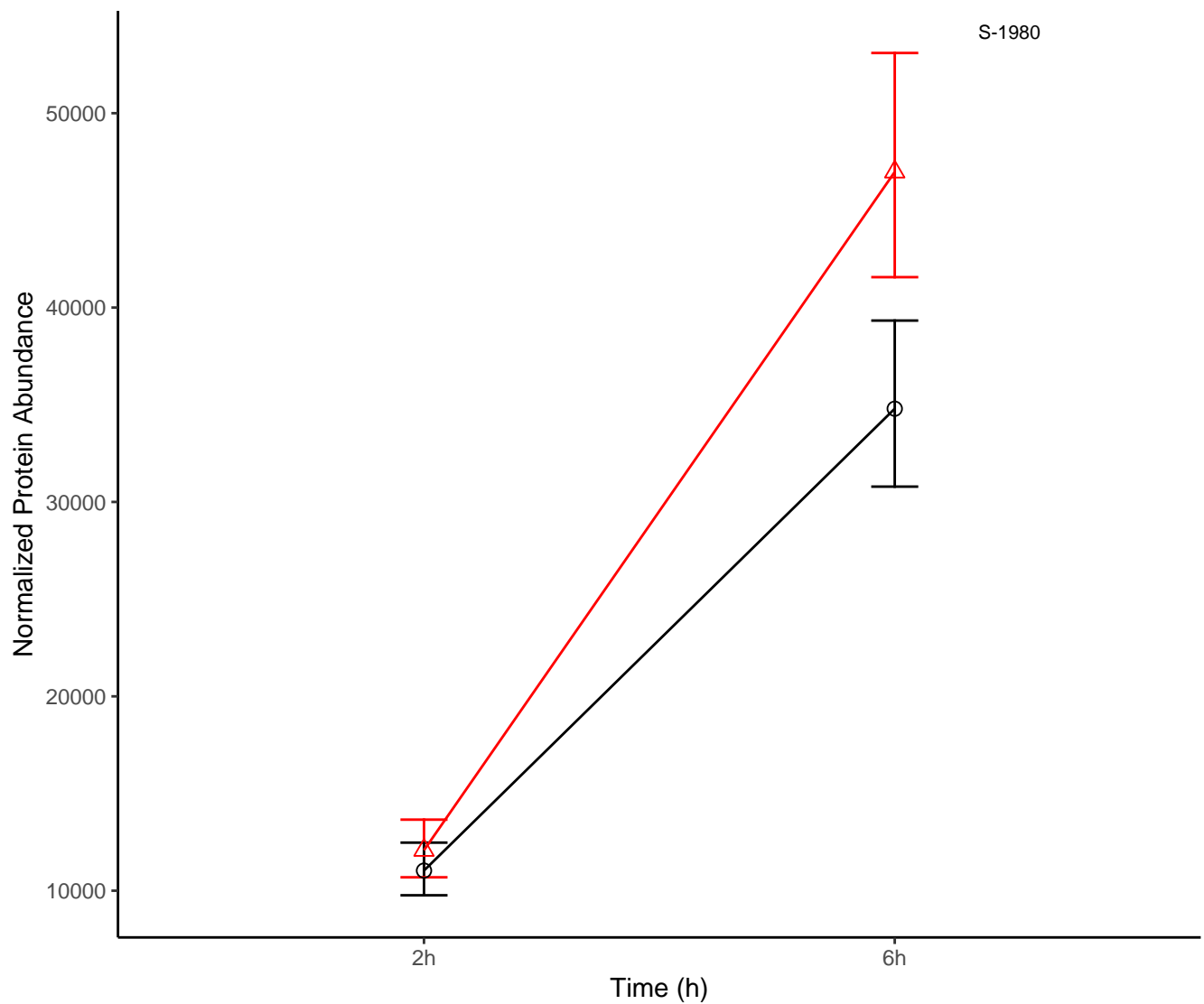


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# Y1710\_STAAM

S-1980

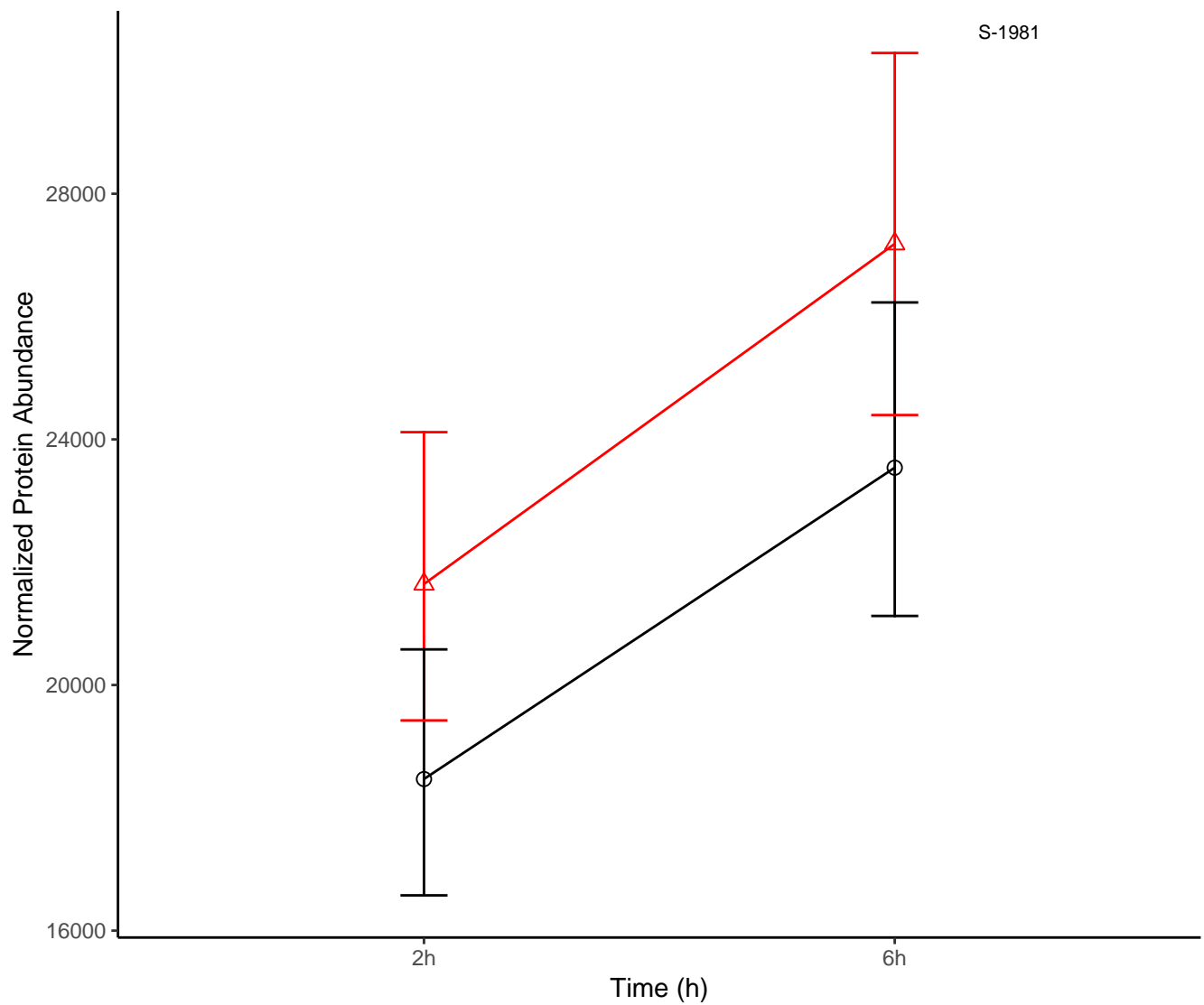


○ TSB-dex

△ TSB

# Y1739\_STAAM

S-1981

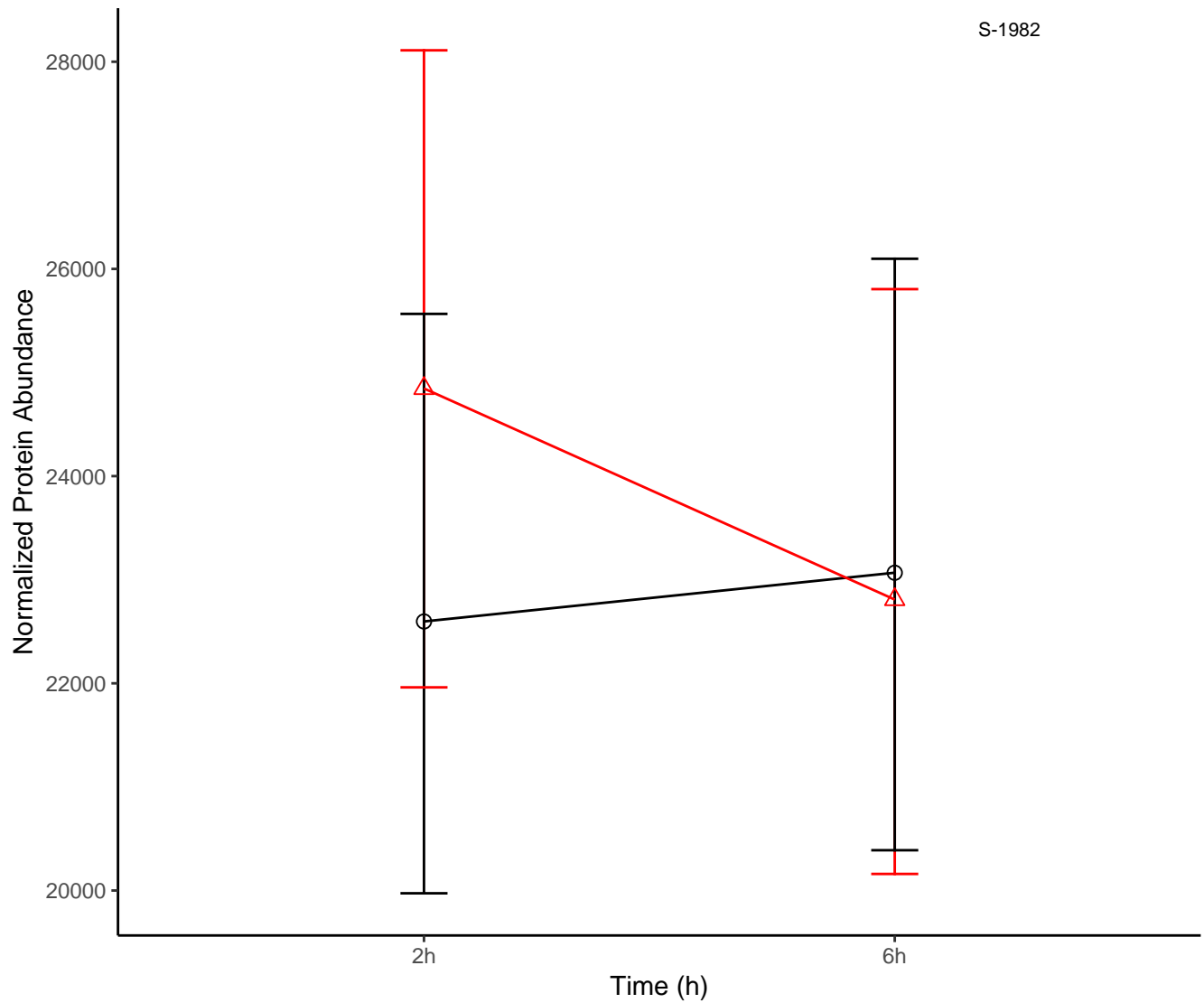


○ TSB-dex

△ TSB

# Y1845\_STAAM

S-1982

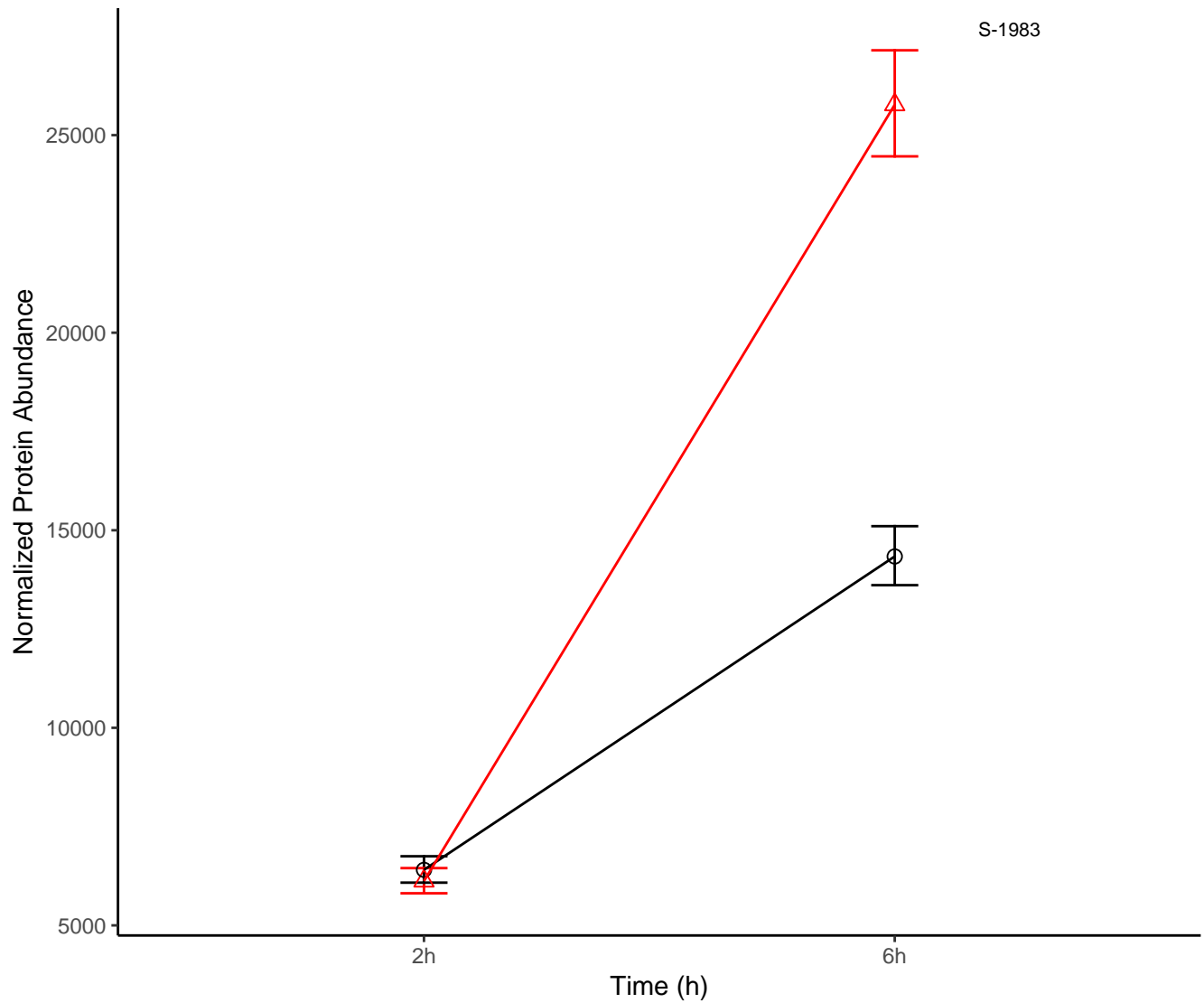


○ TSB-dex

△ TSB

# Y1866\_STAAM

S-1983

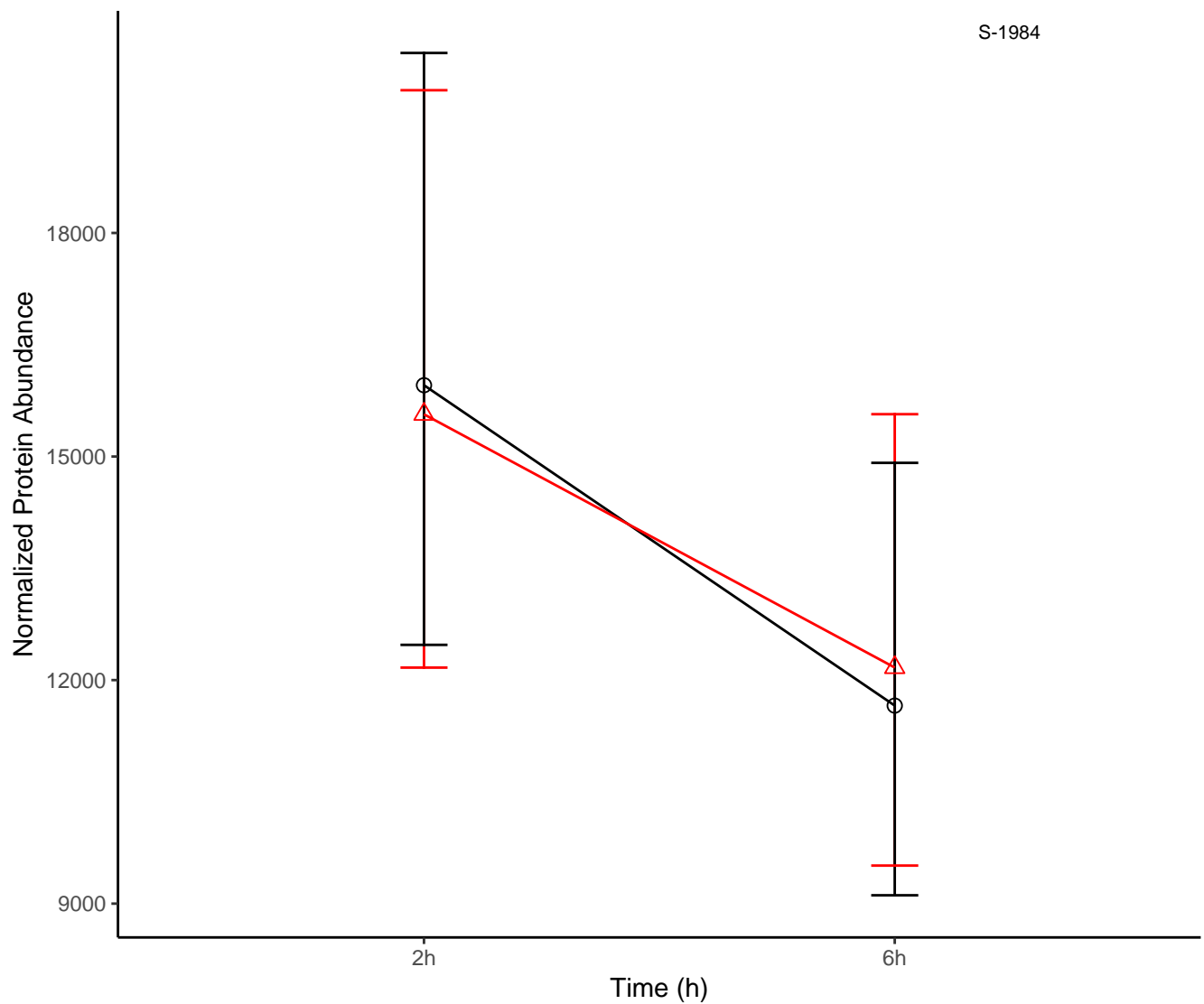


○ TSB-dex

△ TSB

# Y1880\_STAAM

S-1984



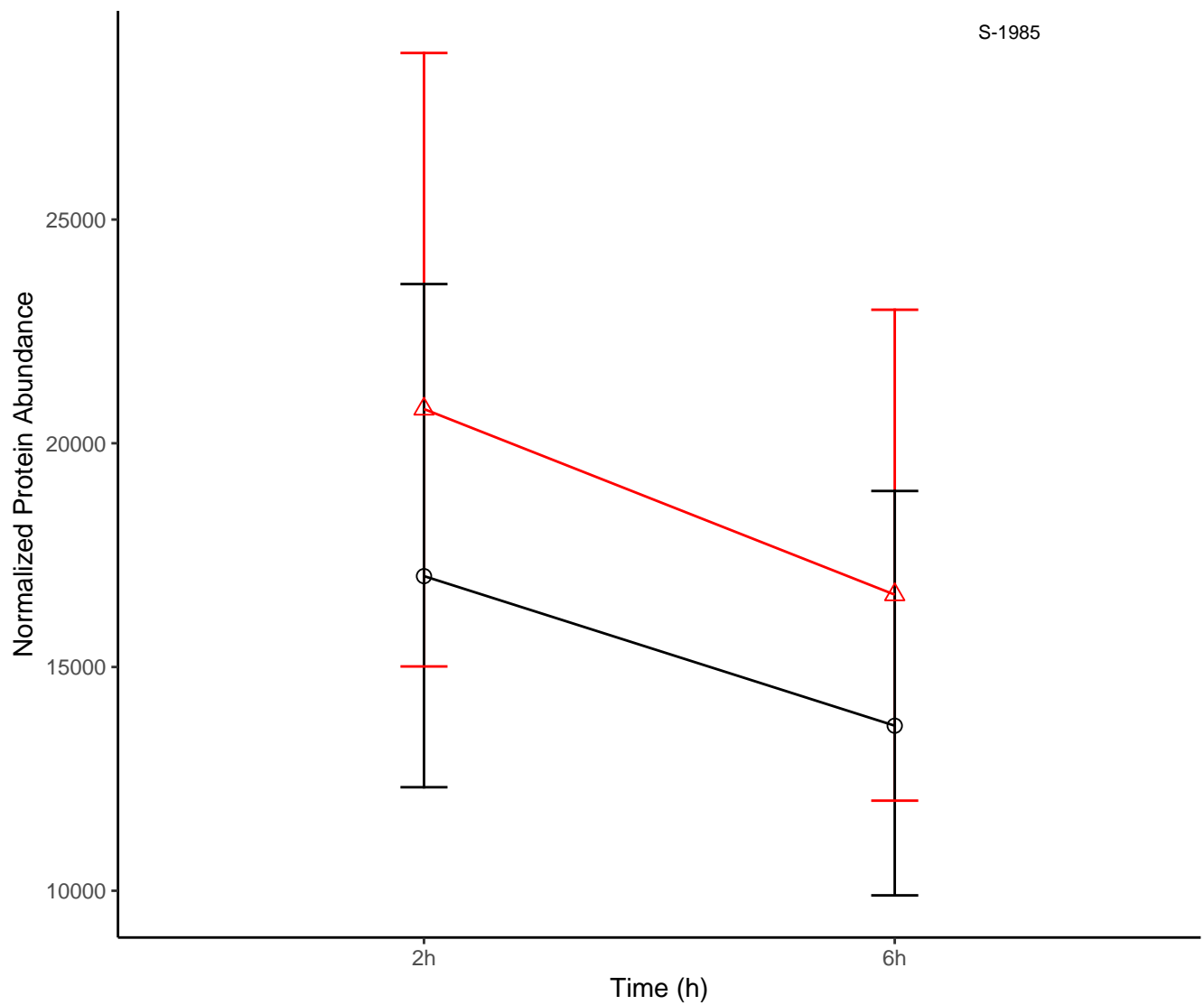
○ TSB-dex

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# Y1921\_STAAM

S-1985

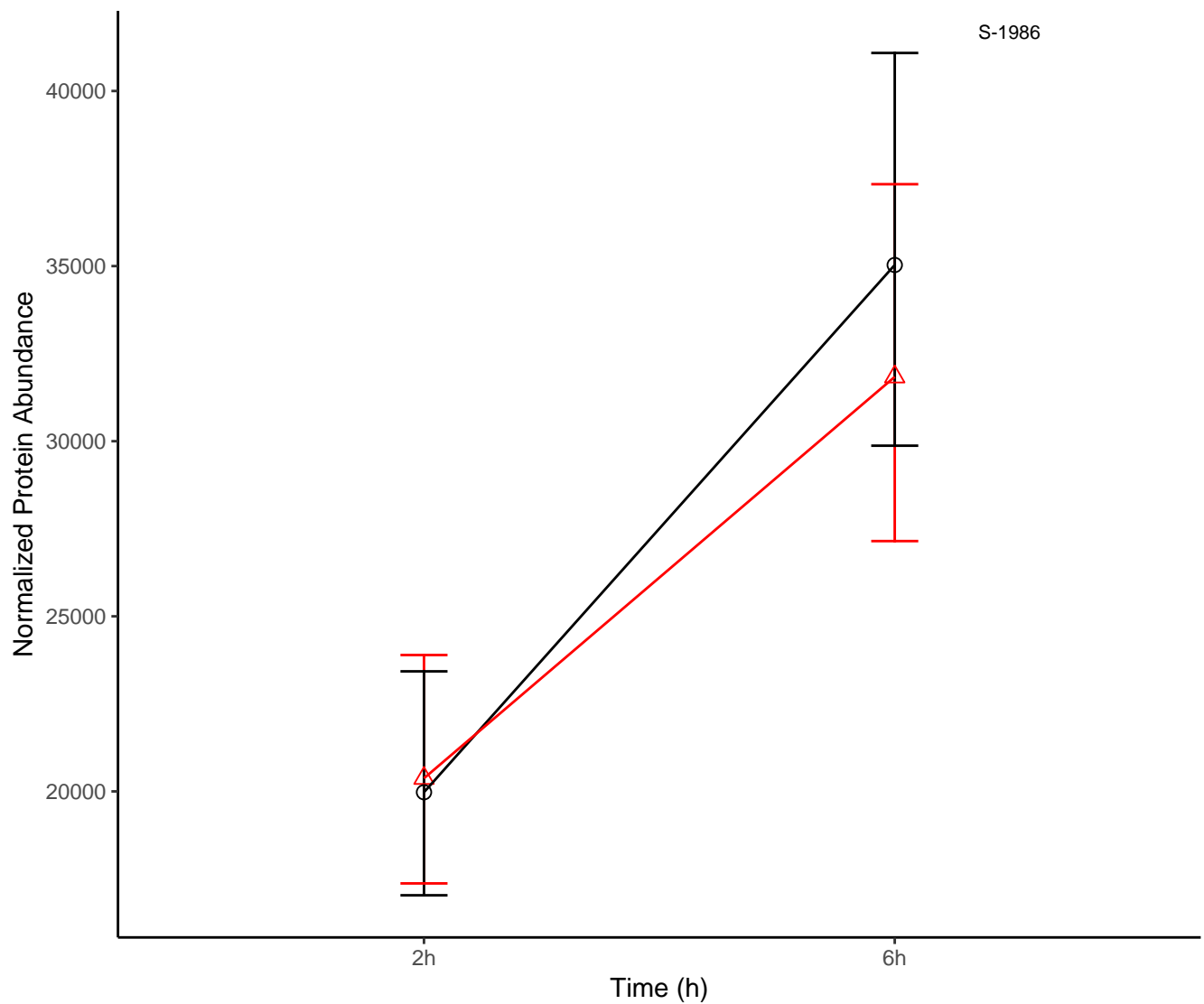


○ TSB-dex

△ TSB

# Y2173\_STAAM

S-1986

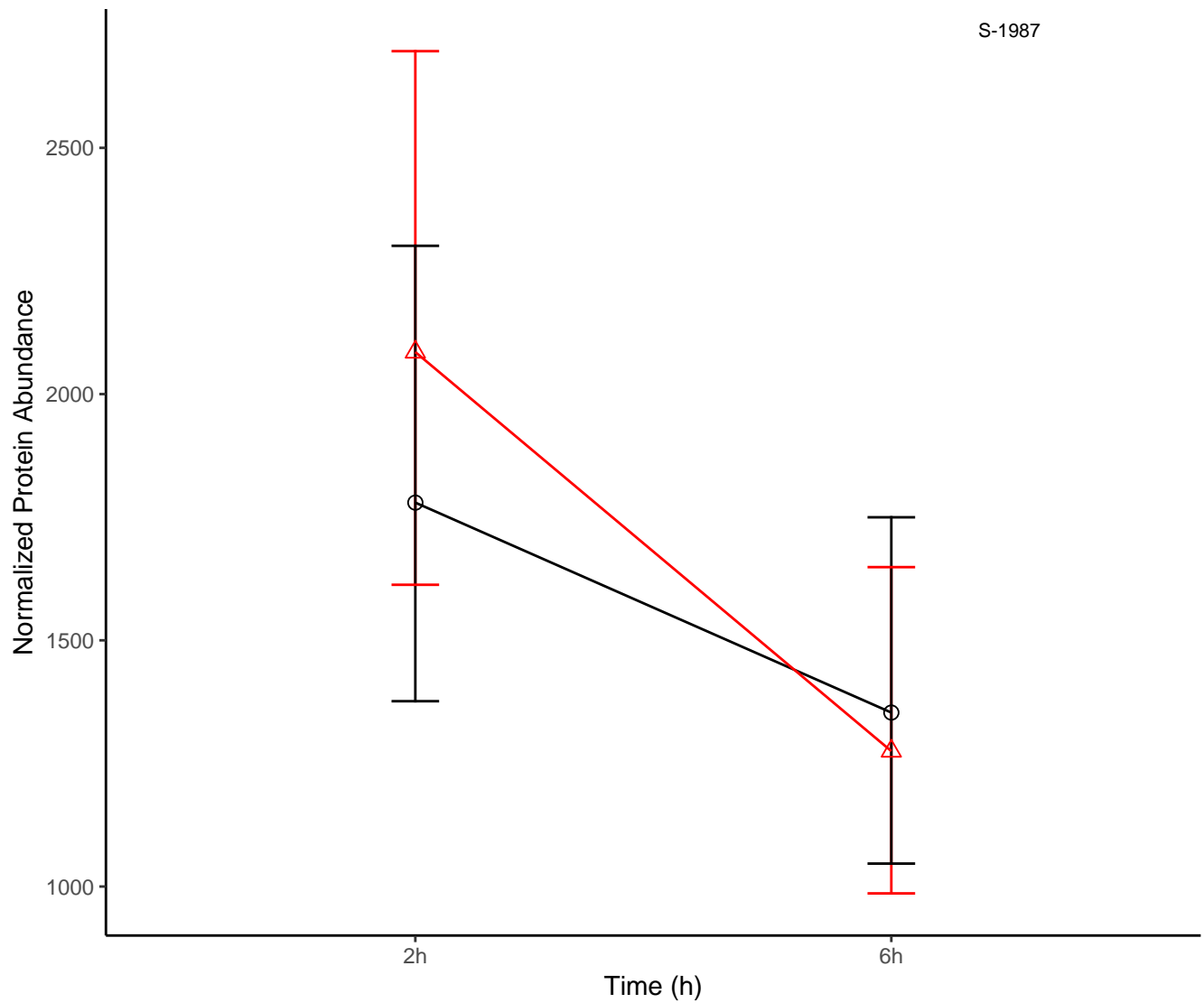


○ TSB-dex

△ TSB

# Y2204\_STAAM

S-1987

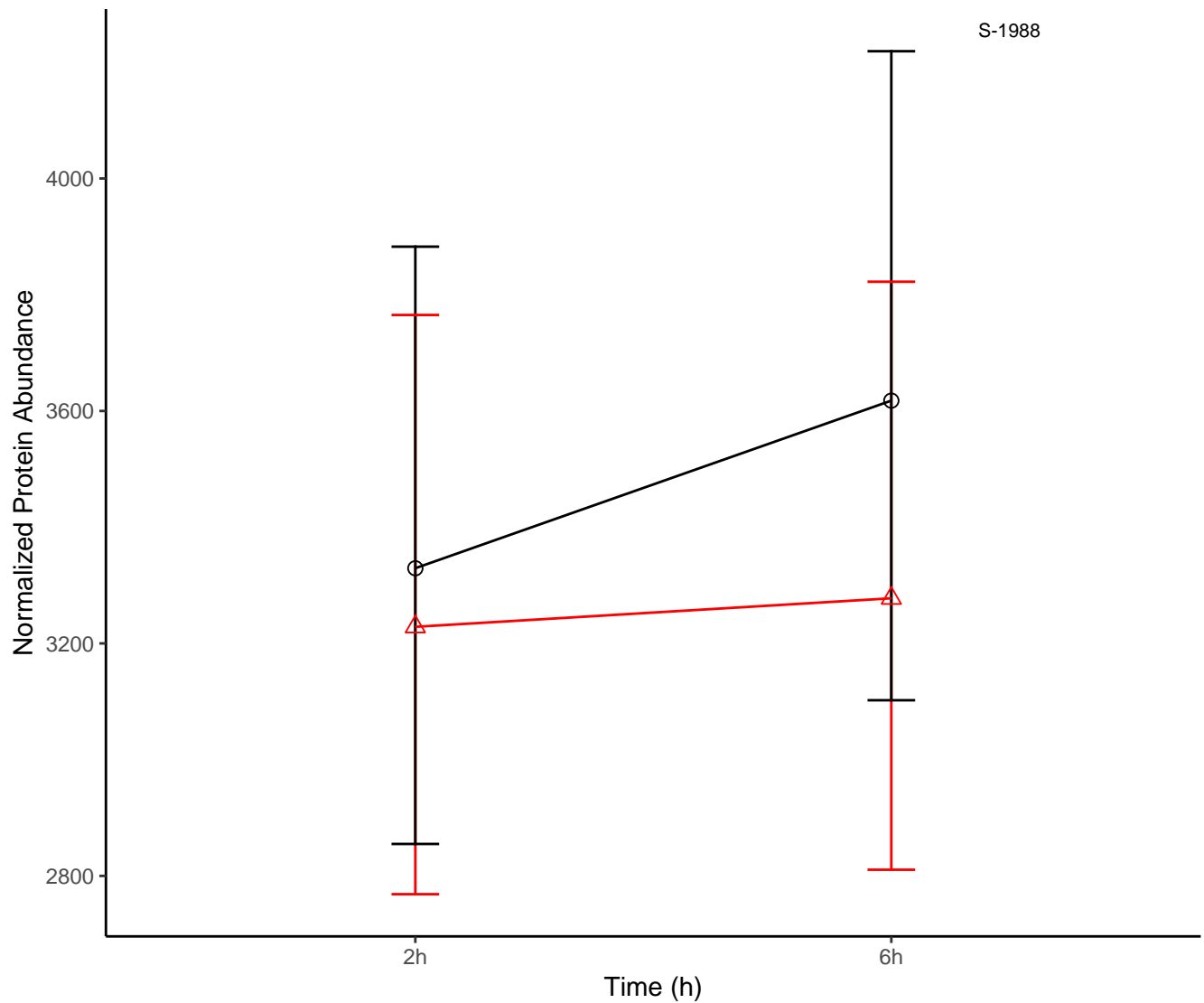


○ TSB-dex

△ TSB

# Y2265\_STAAM

S-1988

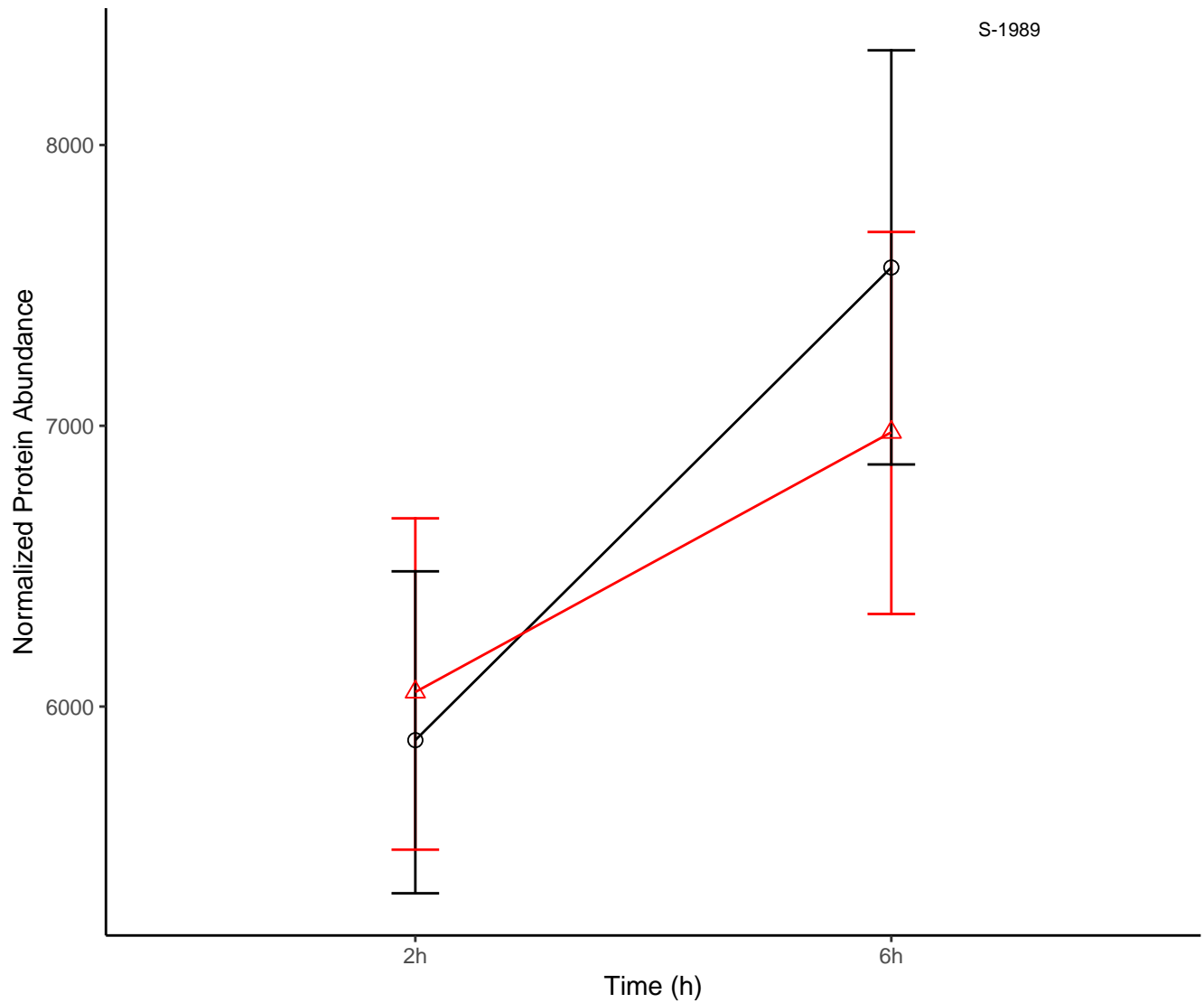


○ TSB-dex

△ TSB

# Y2305\_STAAM

S-1989

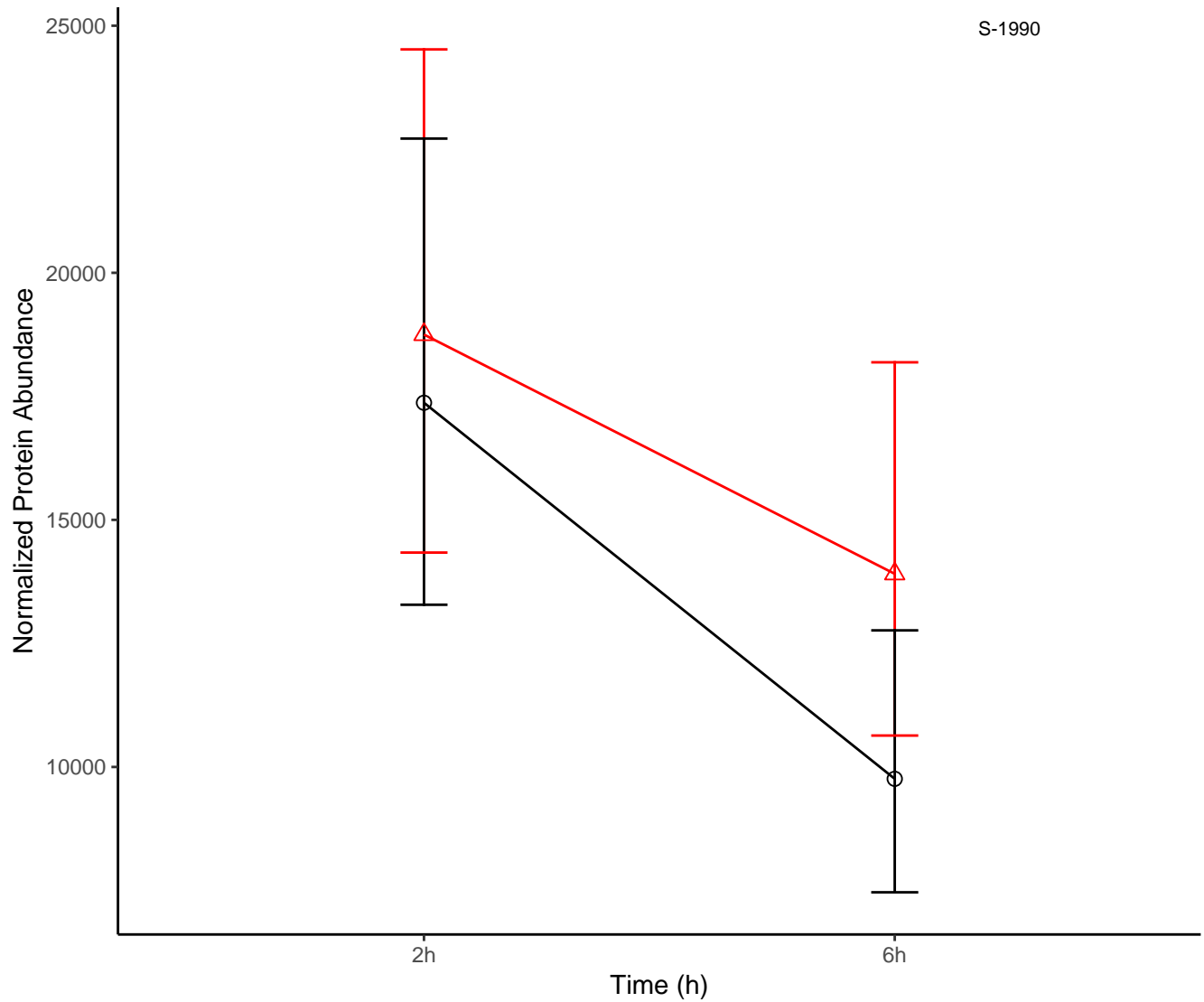


○ TSB-dex

△ TSB

# Y2363\_STAAM

S-1990

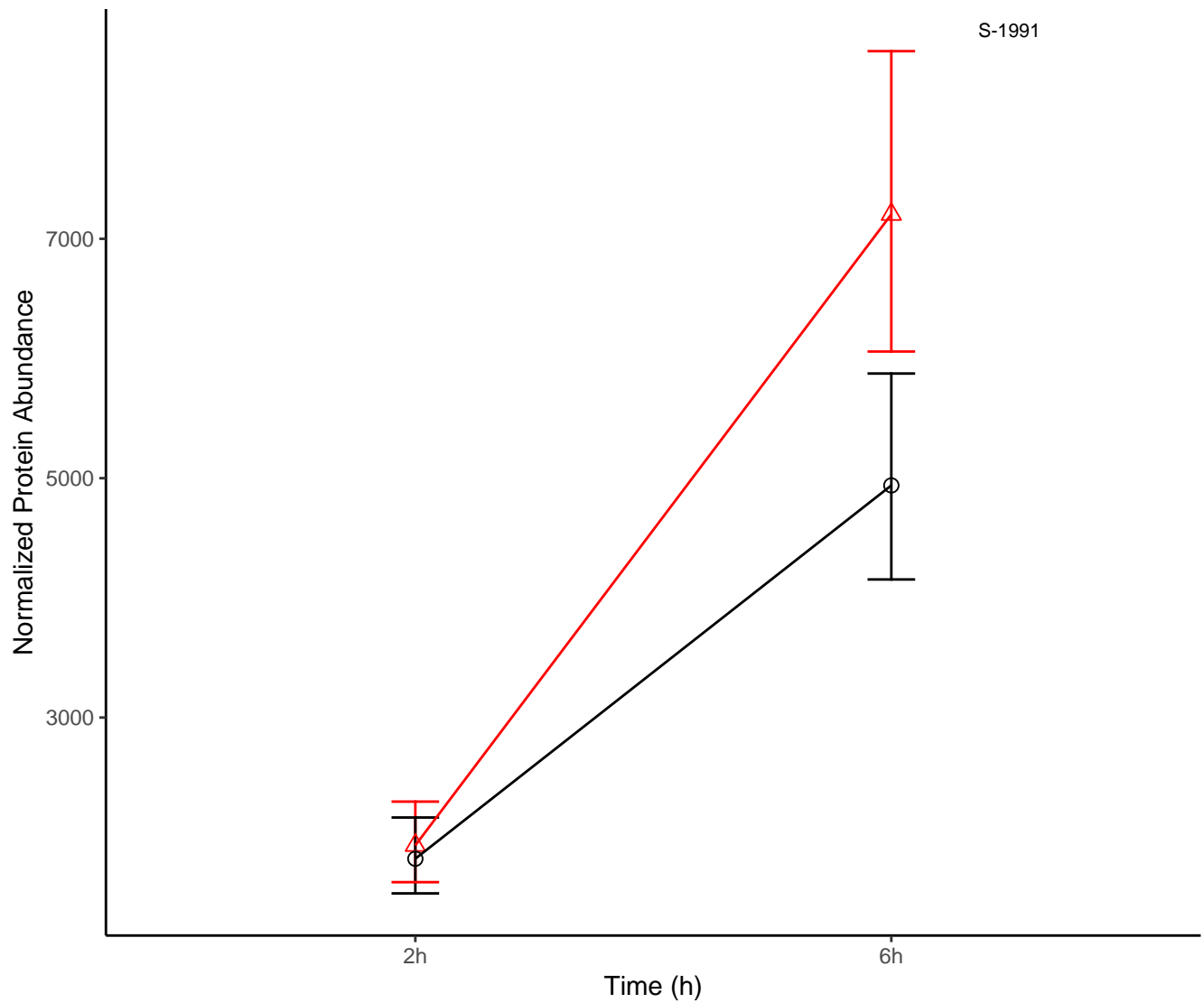


○ TSB-dex

△ TSB

# Y2368\_STAAM

S-1991

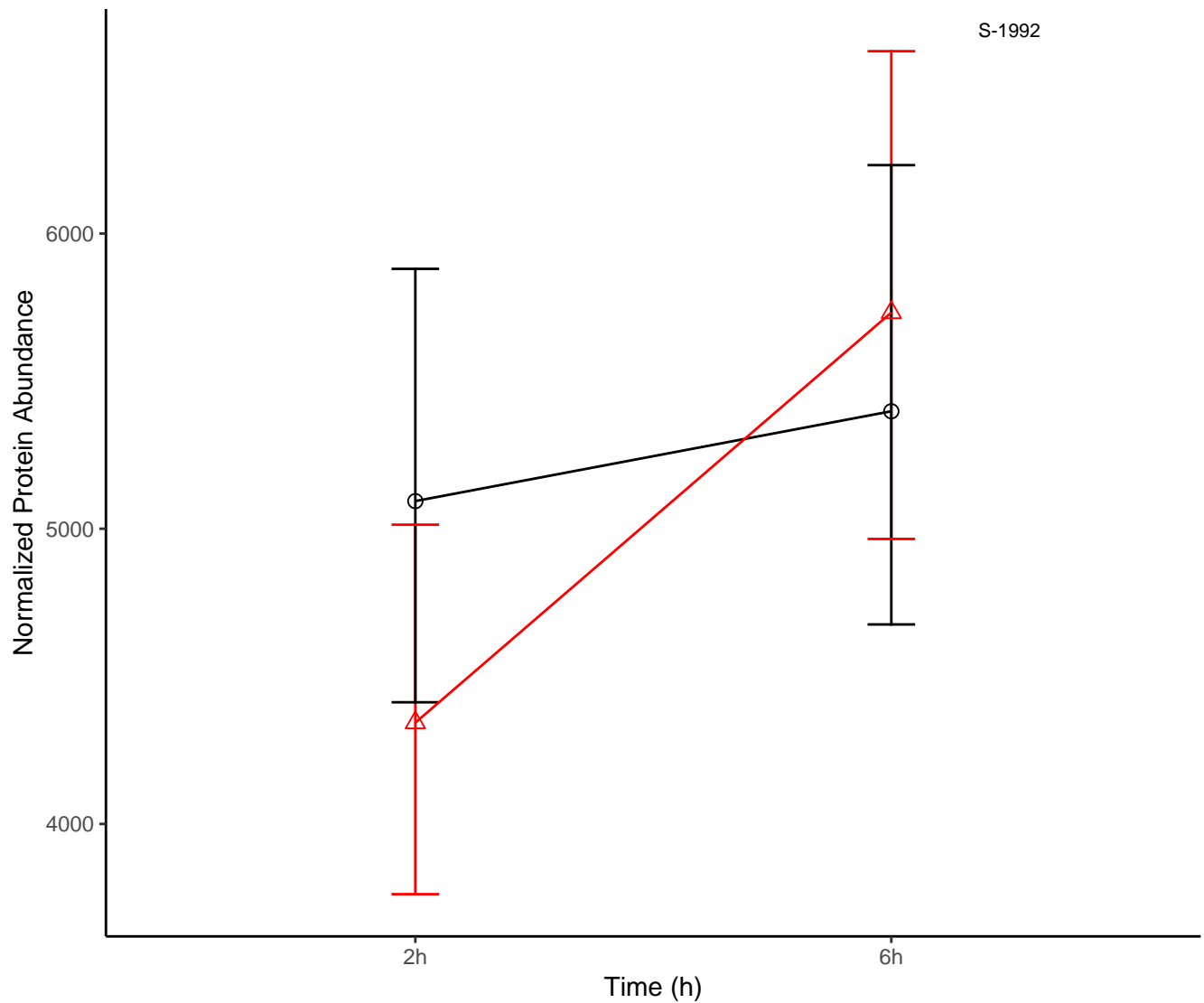


○ TSB-dex

△ TSB

# Y2478\_STAAM

S-1992



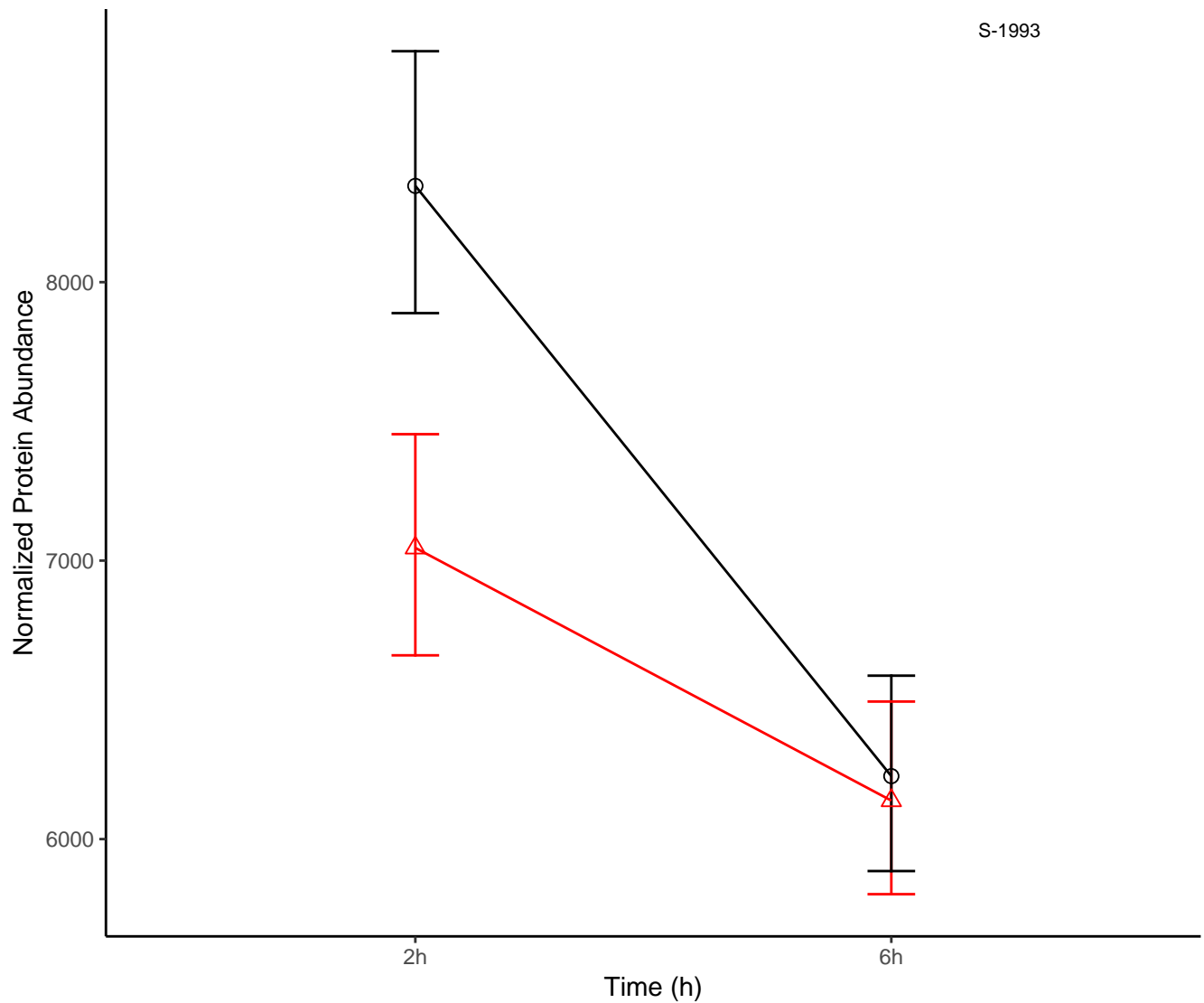
○ TSB-dex

△ TSB



# Y2523\_STAAM

S-1993

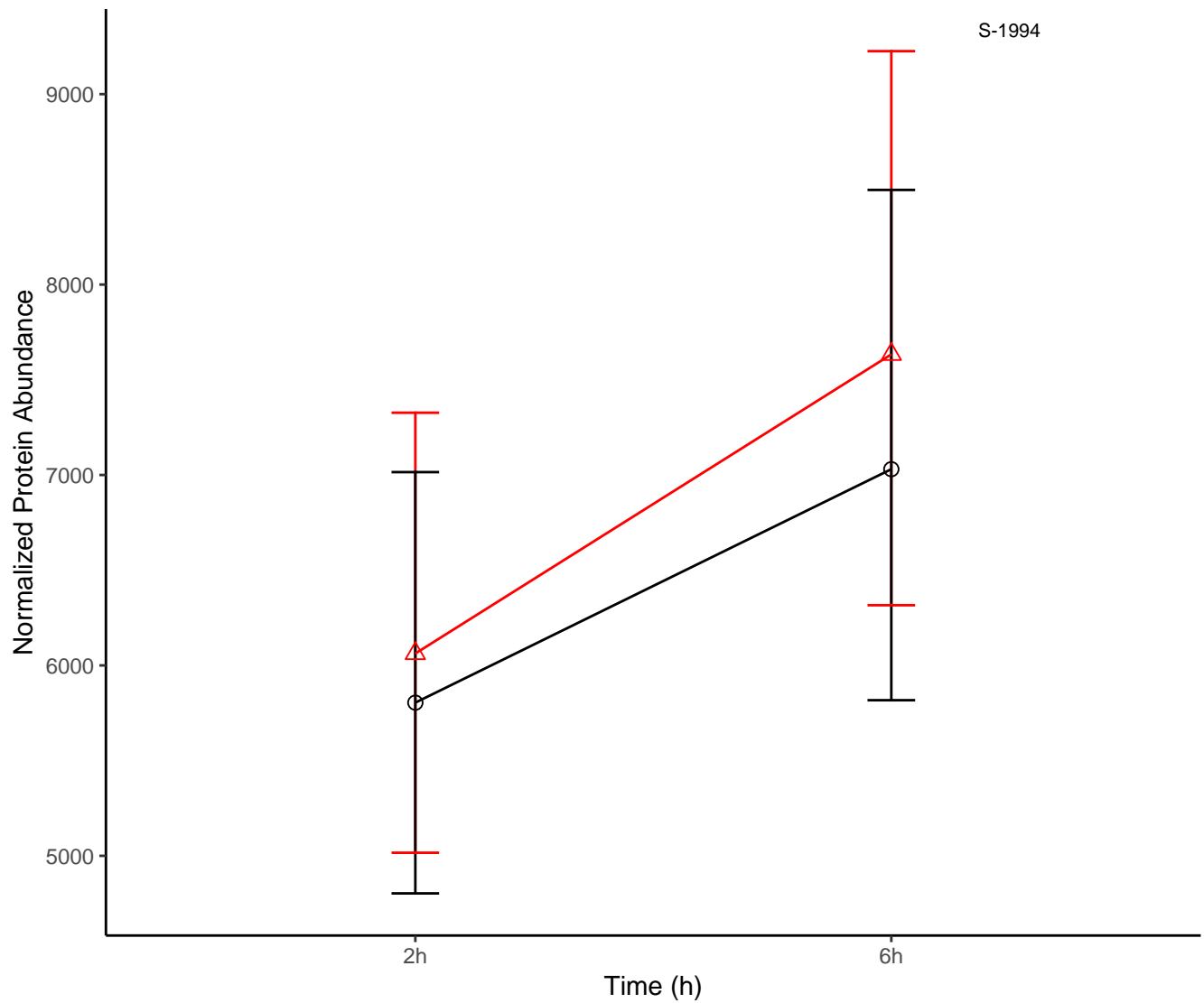


○ TSB-dex

△ TSB

# Y2573\_STAAM

S-1994

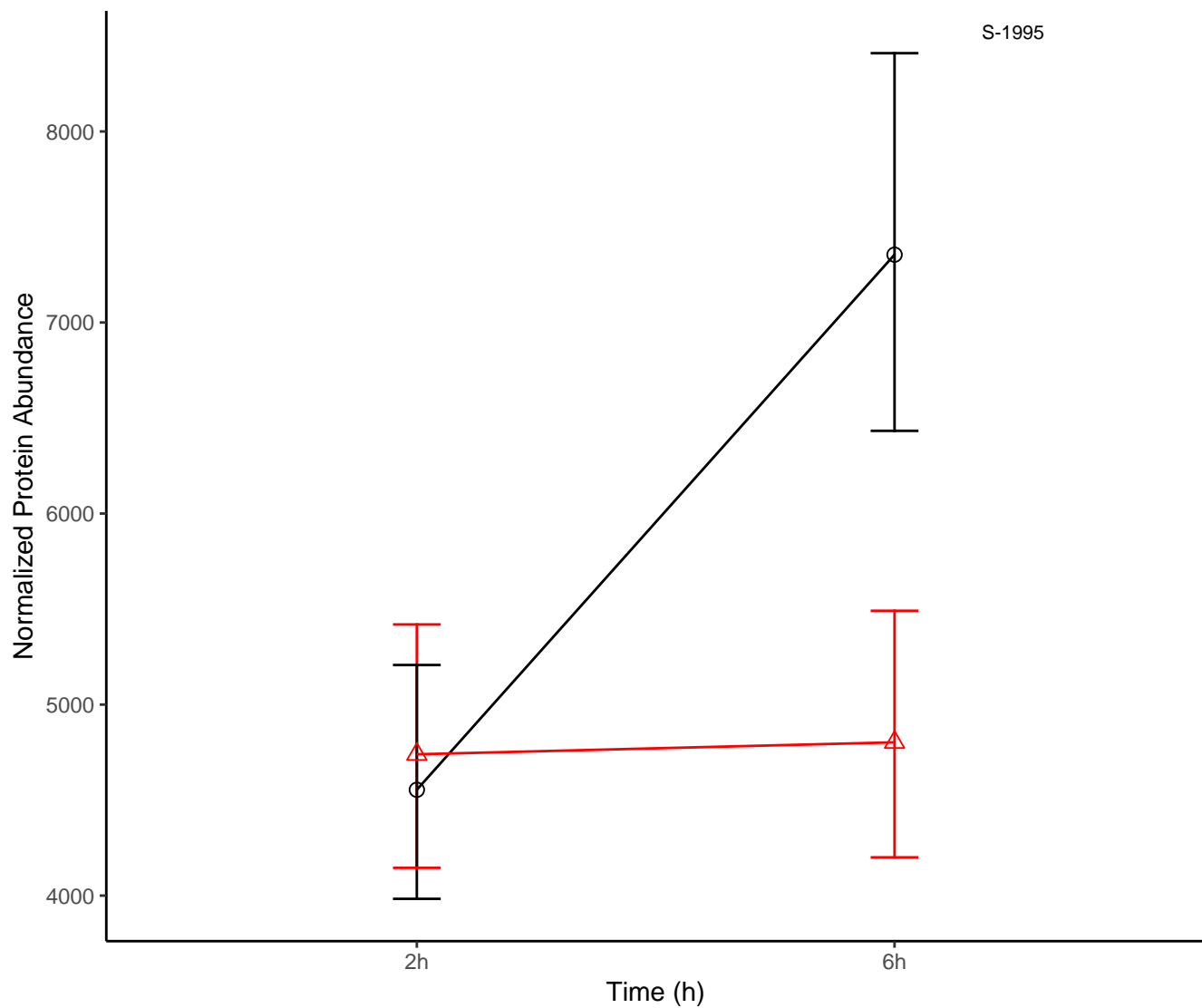


○ TSB-dex

△ TSB

# Y2578\_STAAM

S-1995

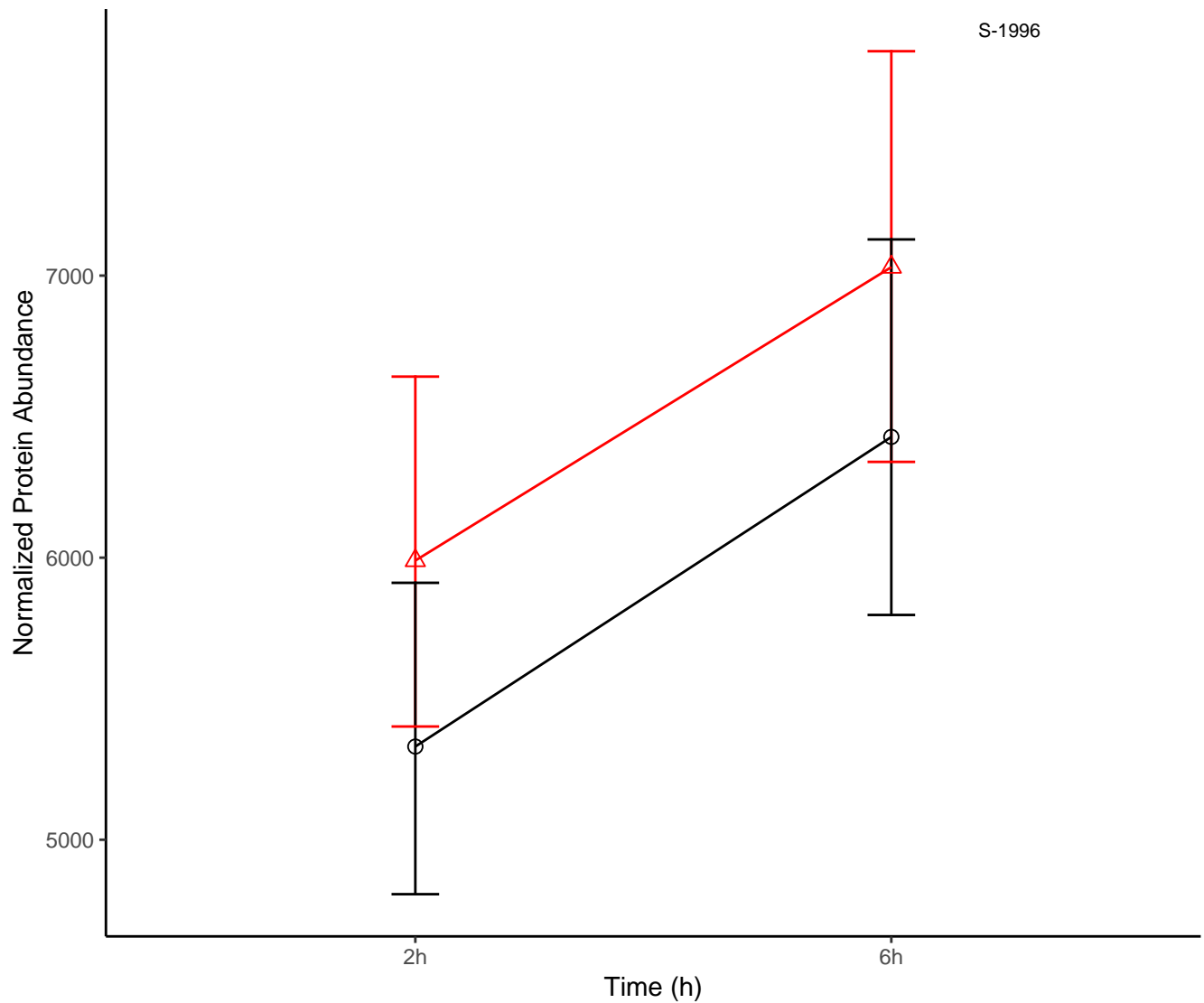


○ TSB-dex

△ TSB

# Y2581\_STAAM

S-1996

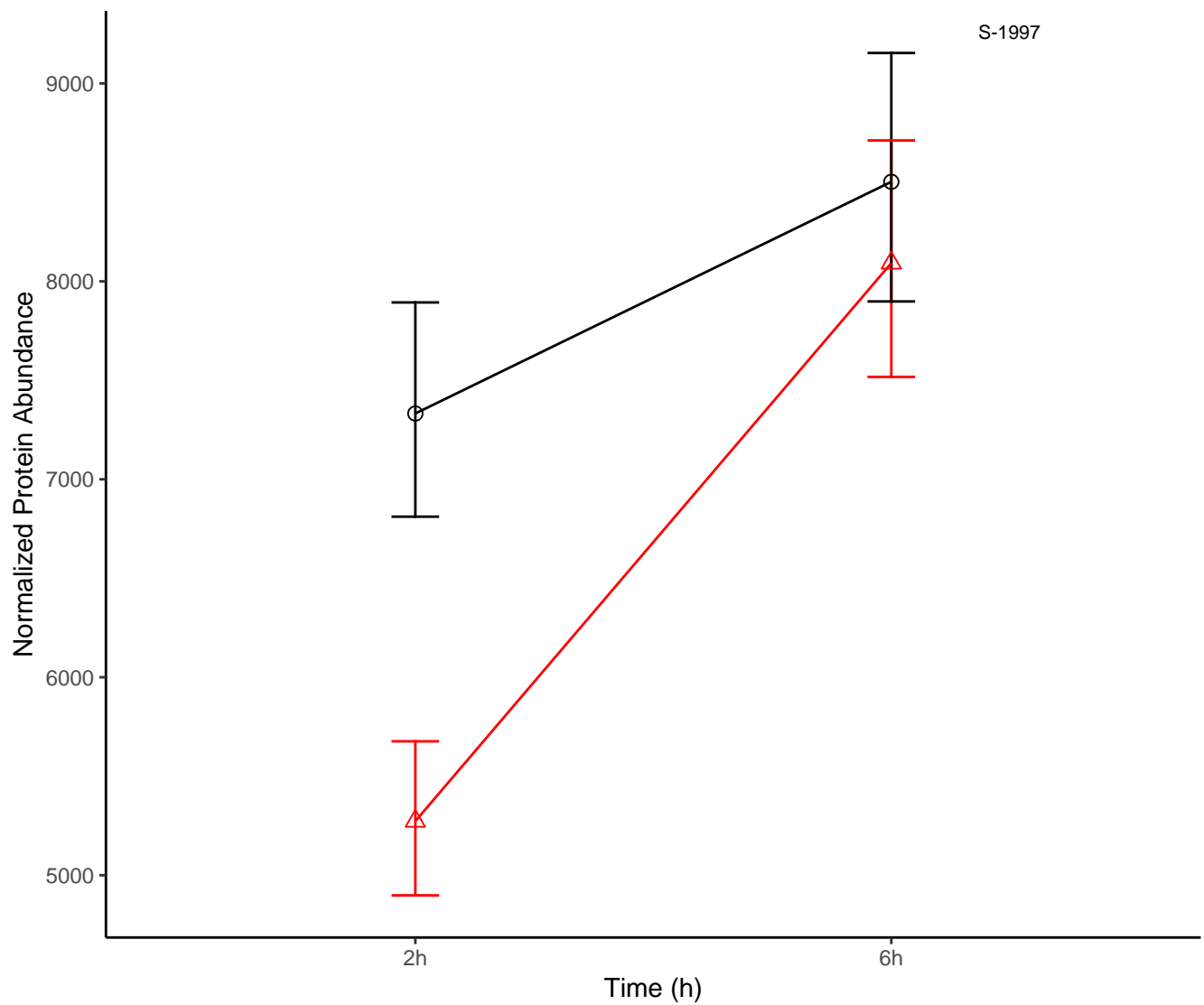


○ TSB-dex

△ TSB

# Y2627\_STAAM

S-1997

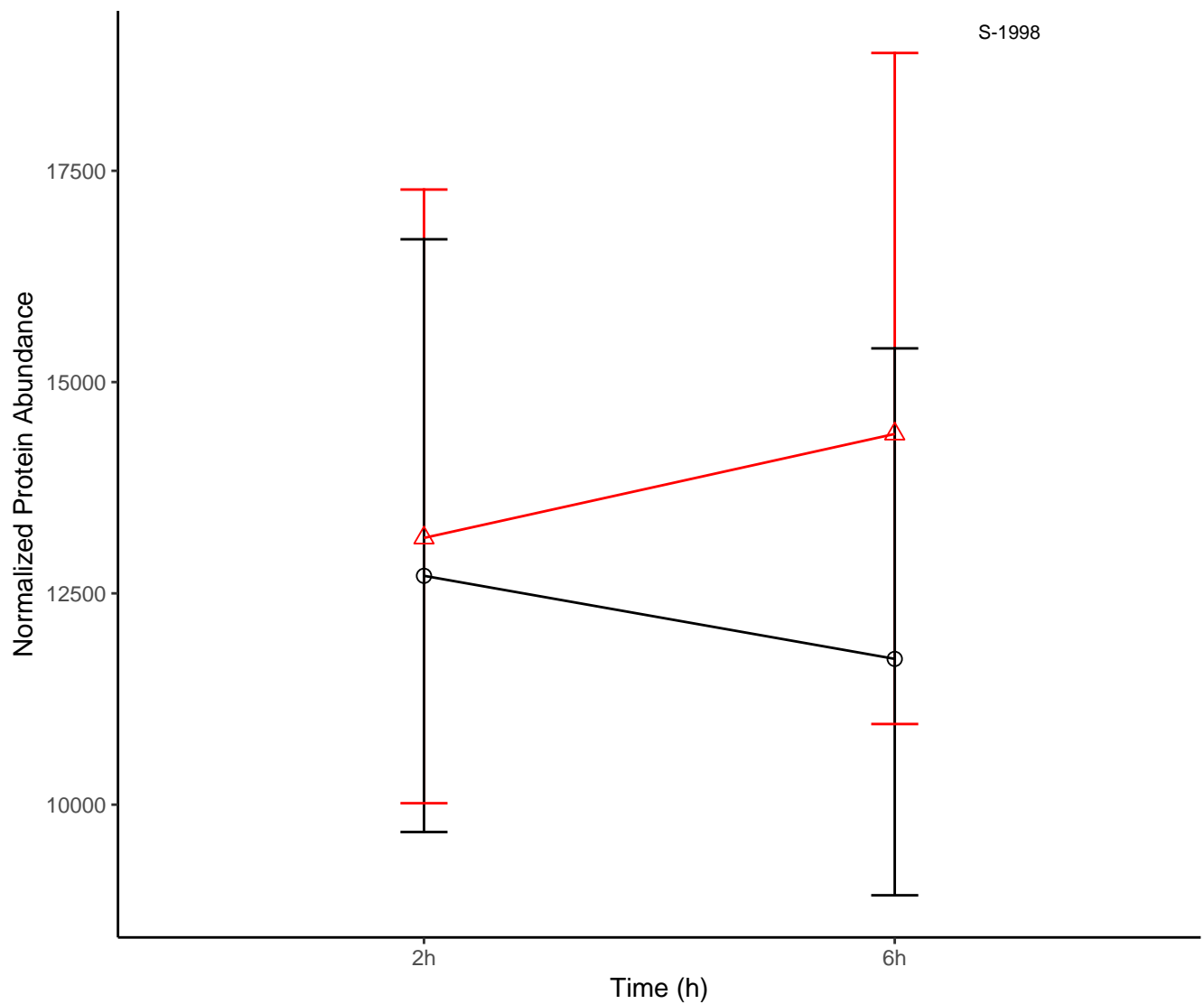


○ TSB-dex

△ TSB

# Y2687\_STAAM

S-1998

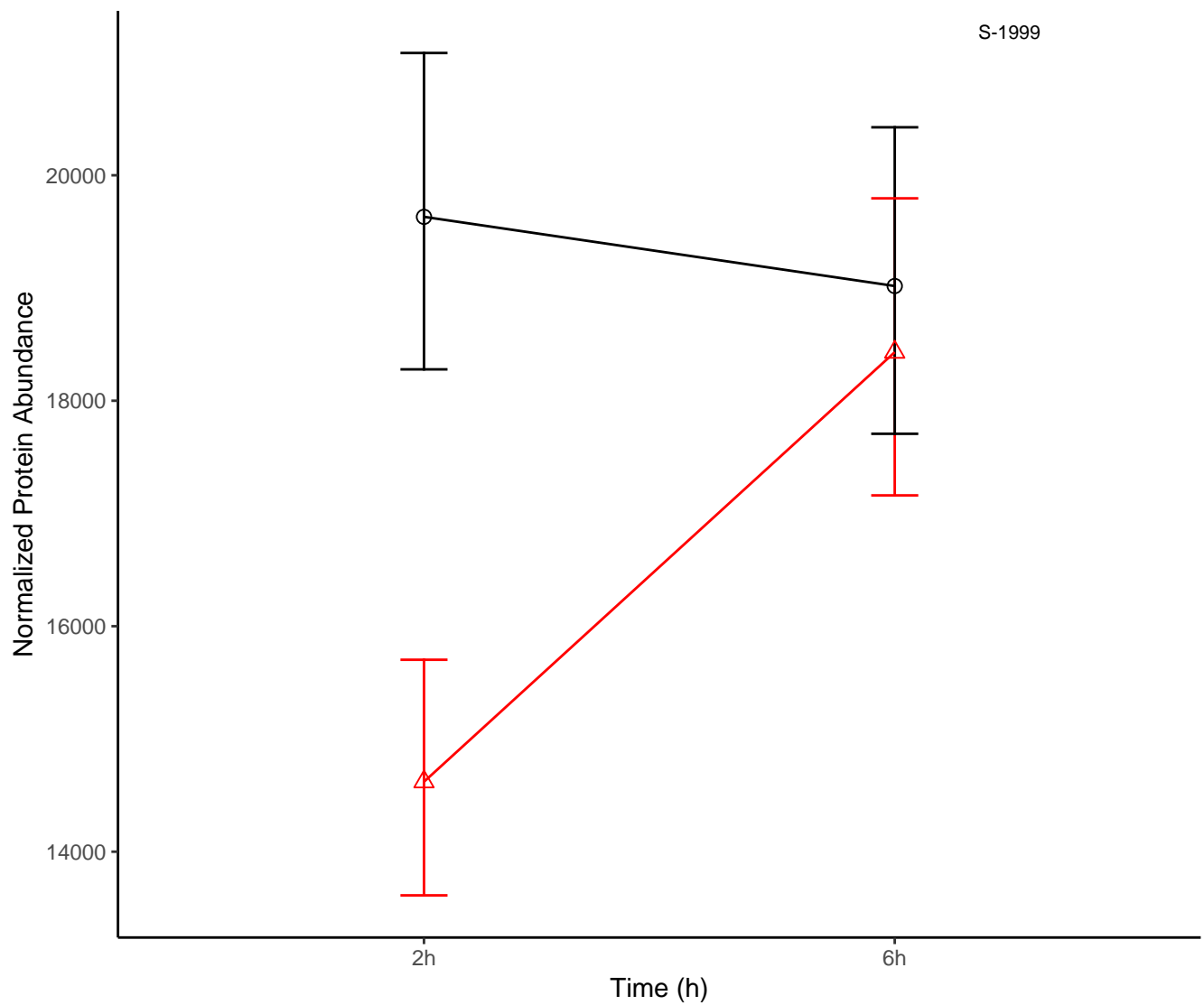


○ TSB-dex

△ TSB

# Y2689\_STAAM

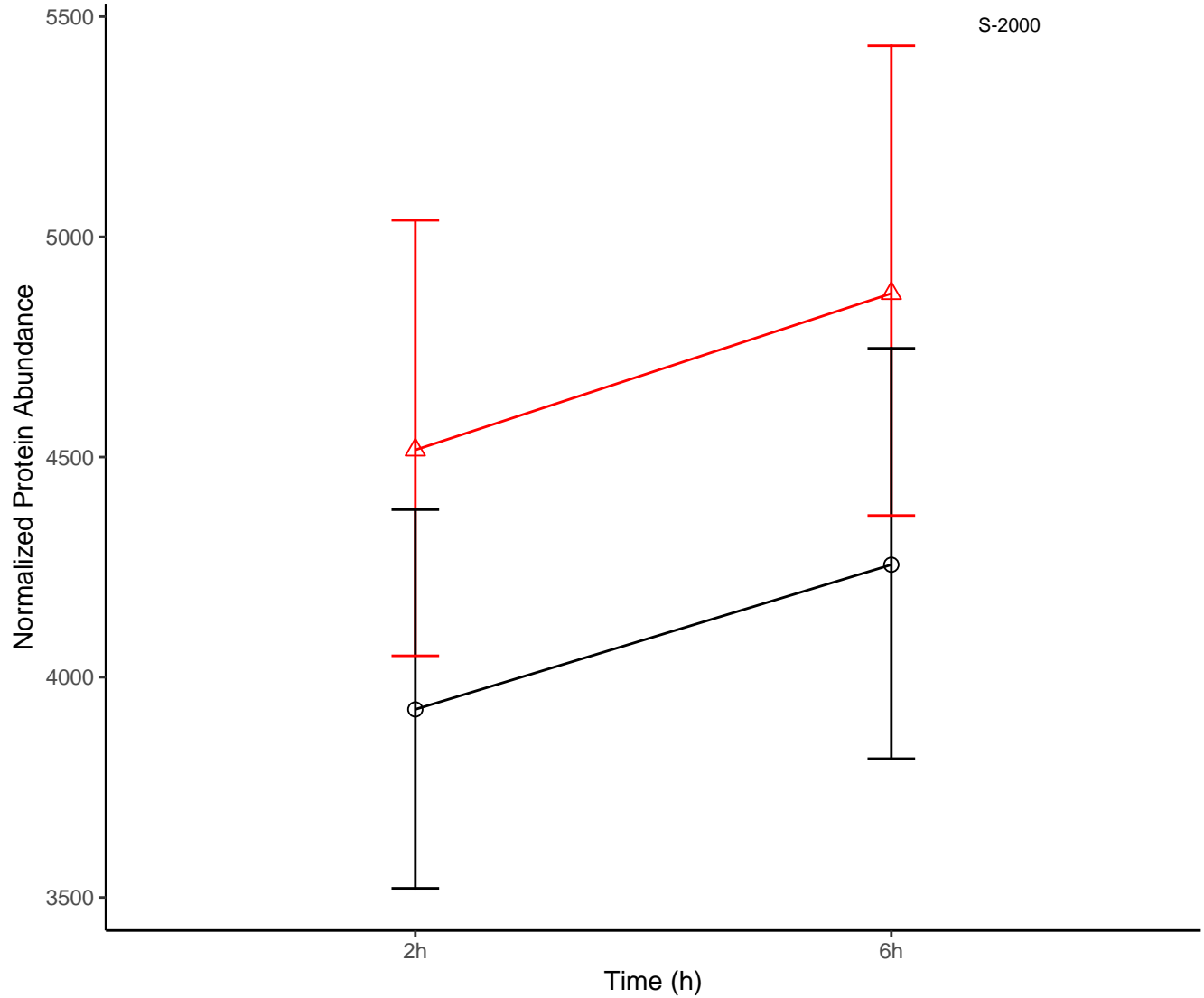
S-1999



○ TSB-dex

△ TSB

# Y385\_STAAM



S-2000

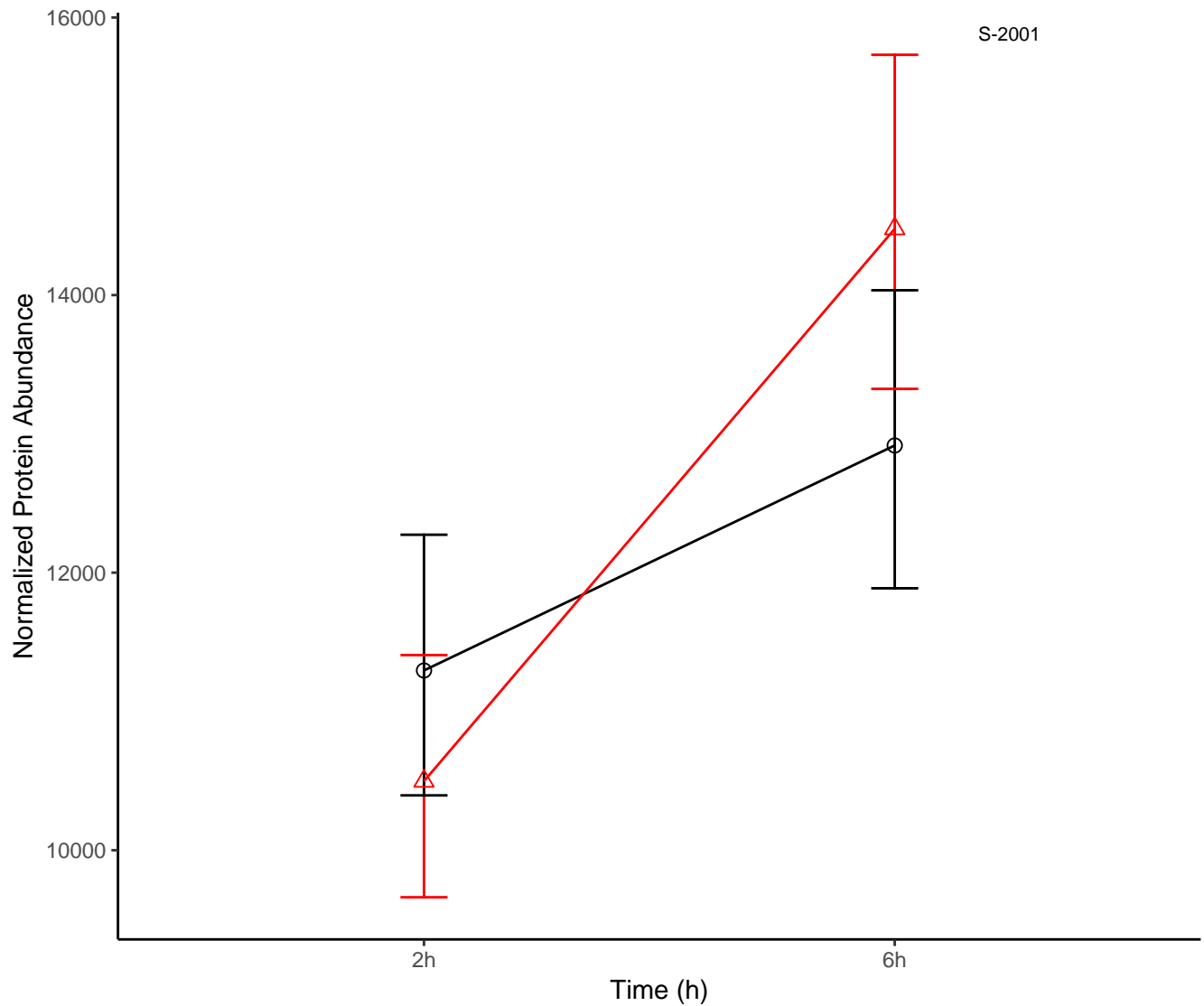
○ TSB-dex

△ TSB



# Y437\_STAAM

S-2001

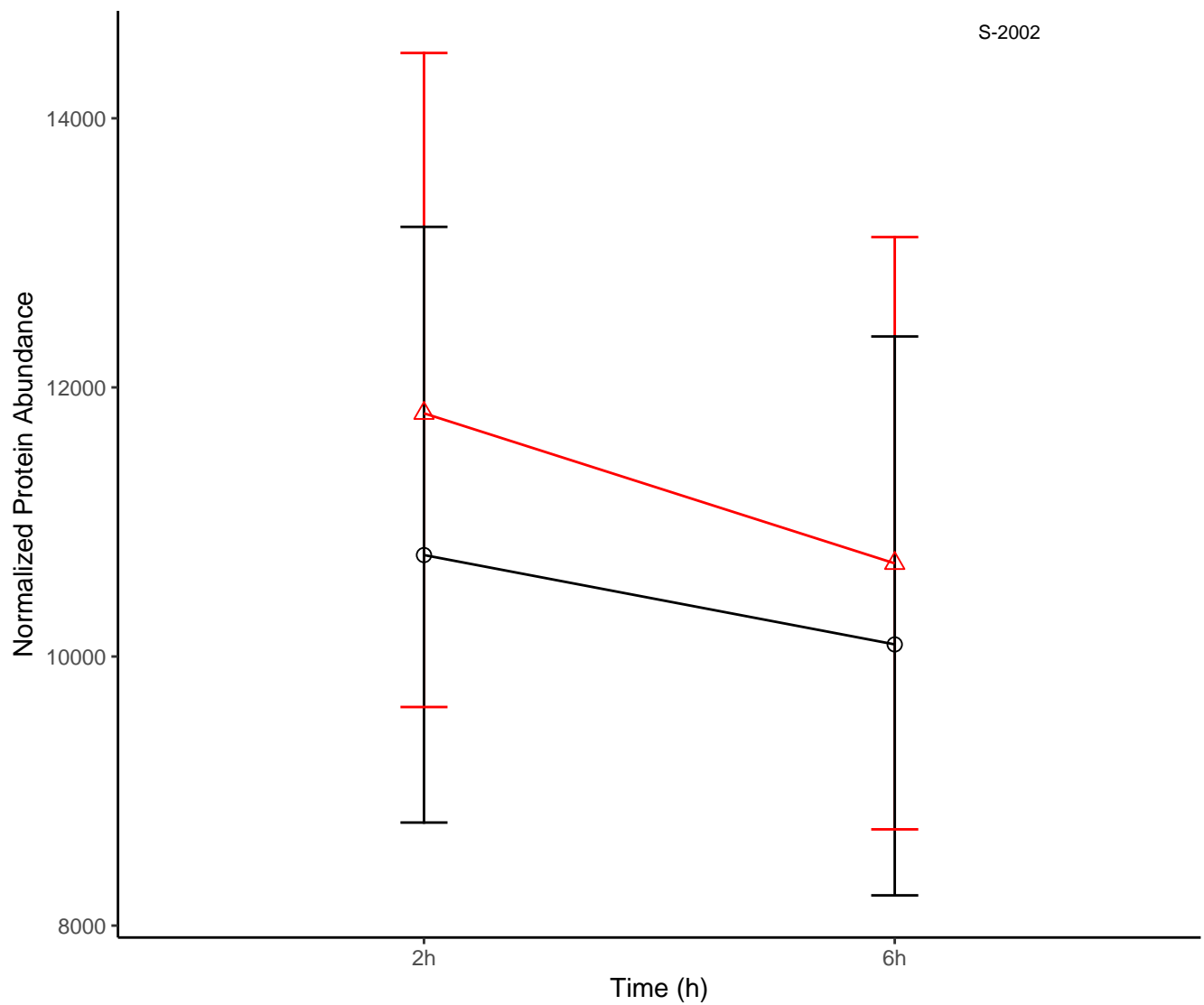


○ TSB-dex

△ TSB

# Y479\_STAAM

S-2002

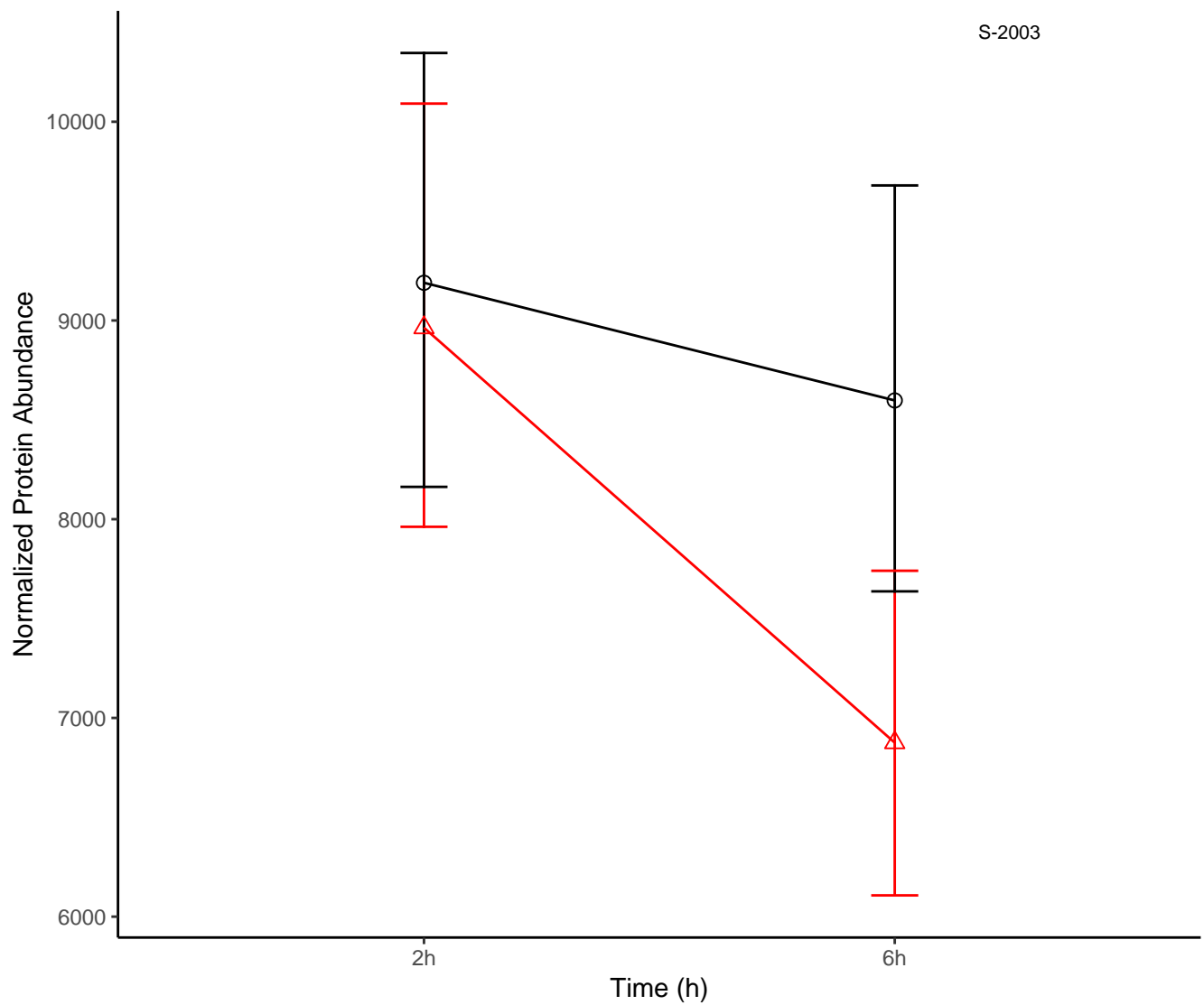


○ TSB-dex

△ TSB

# Y553\_STAAM

S-2003

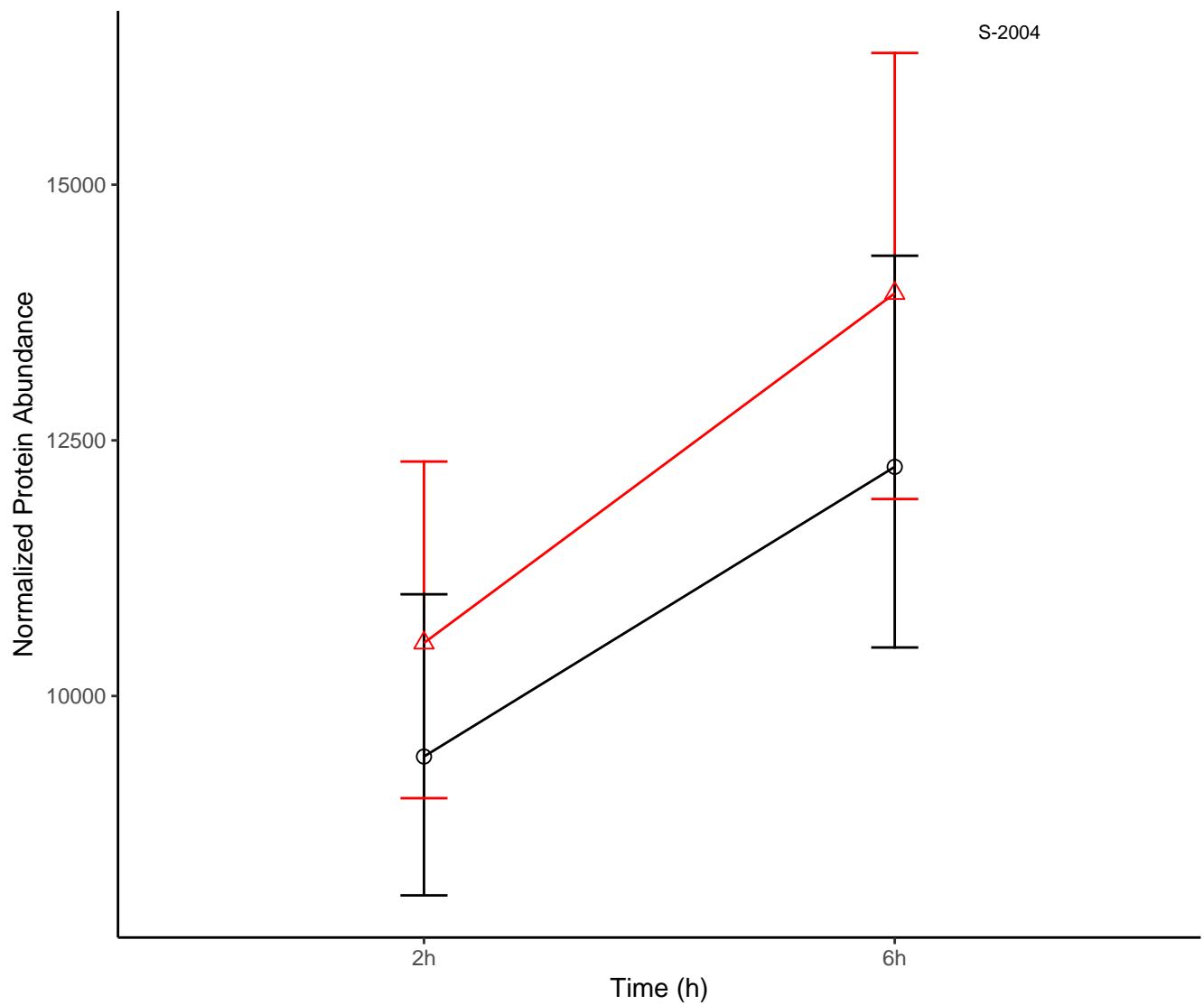


○ TSB-dex

△ TSB

# Y587\_STAAM

S-2004

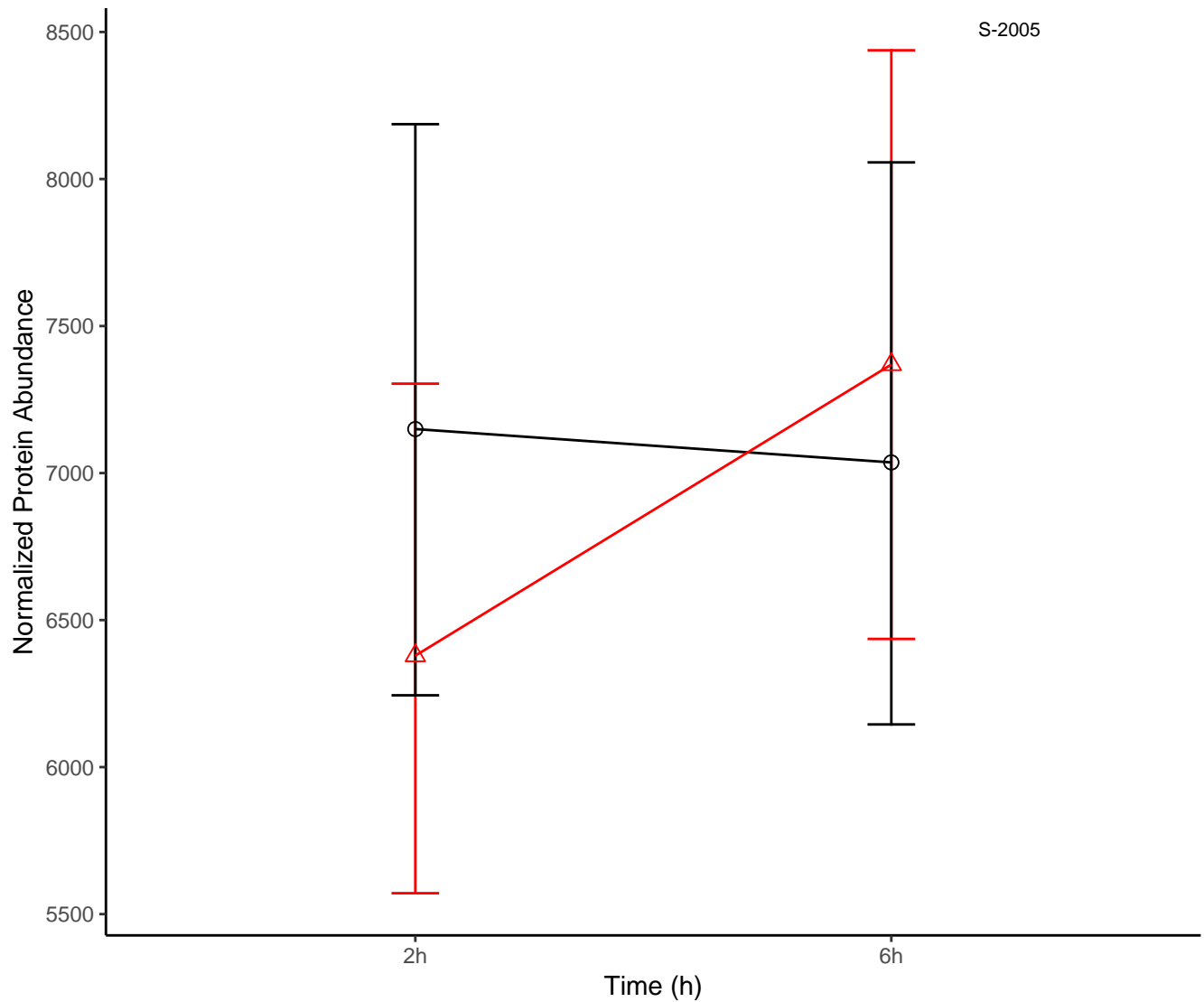


○ TSB-dex

△ TSB

# Y669\_STAAM

S-2005

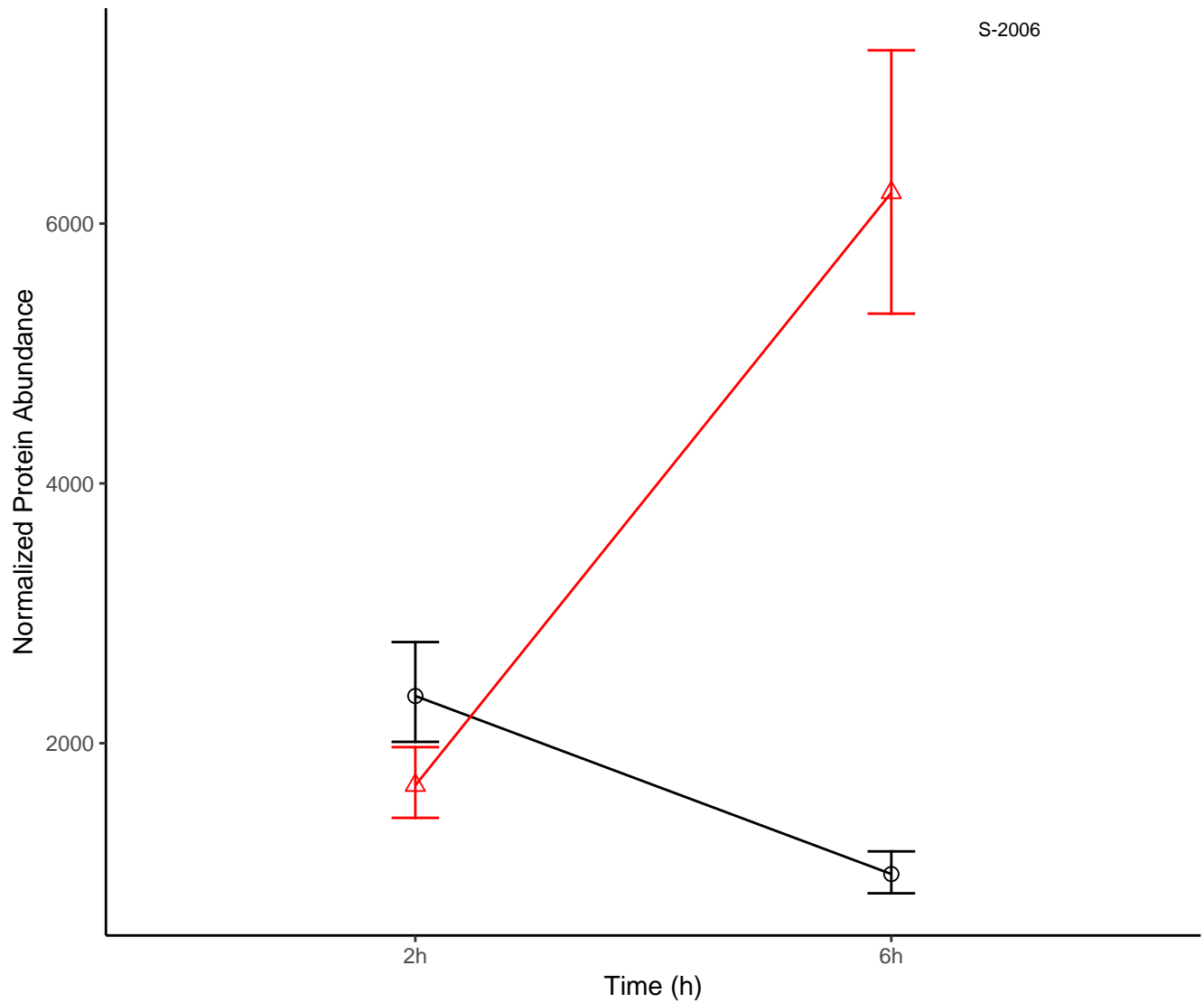


○ TSB-dex

△ TSB

# Y752\_STAAM

S-2006

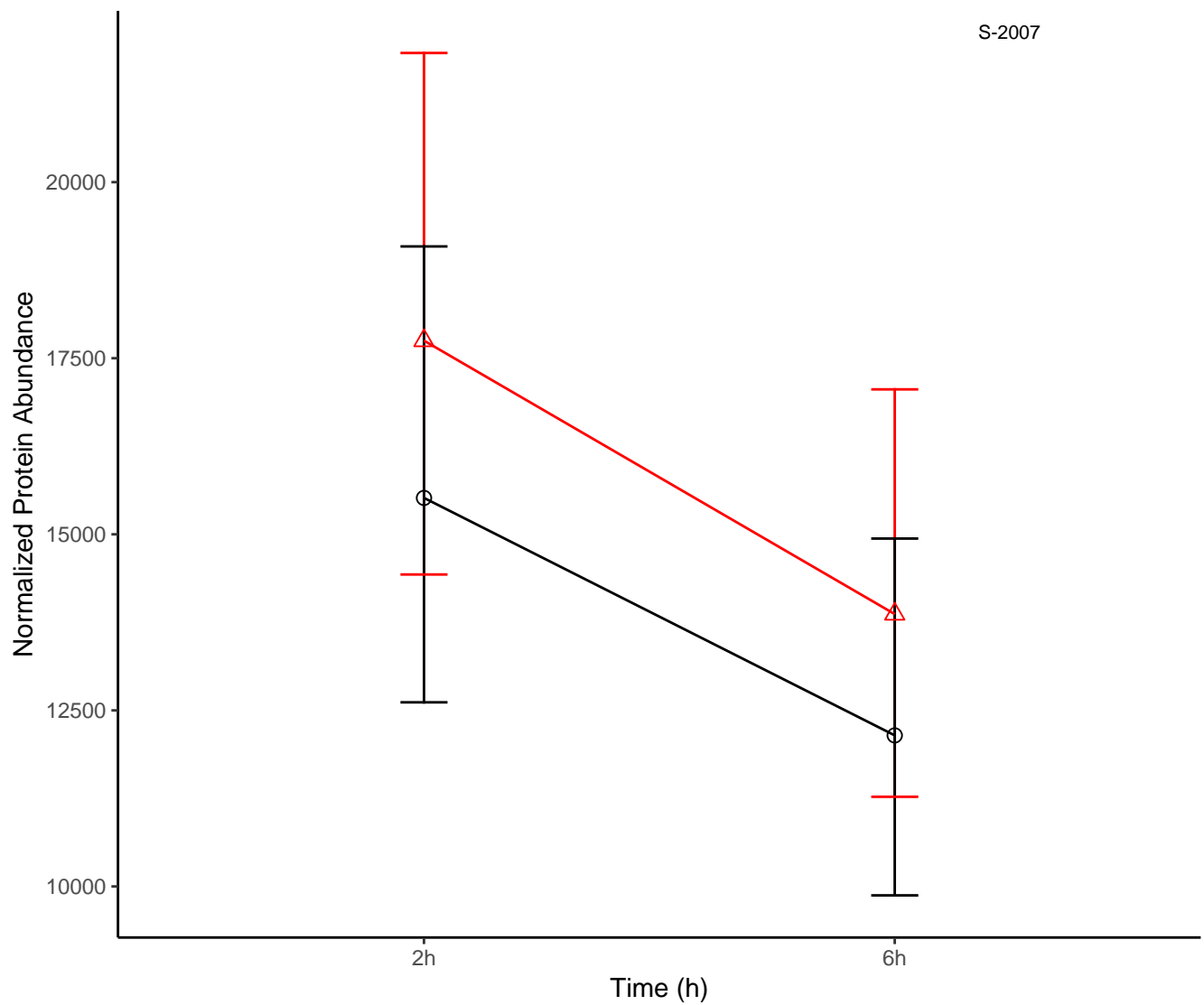


○ TSB-dex

△ TSB

# Y765\_STAAM

S-2007

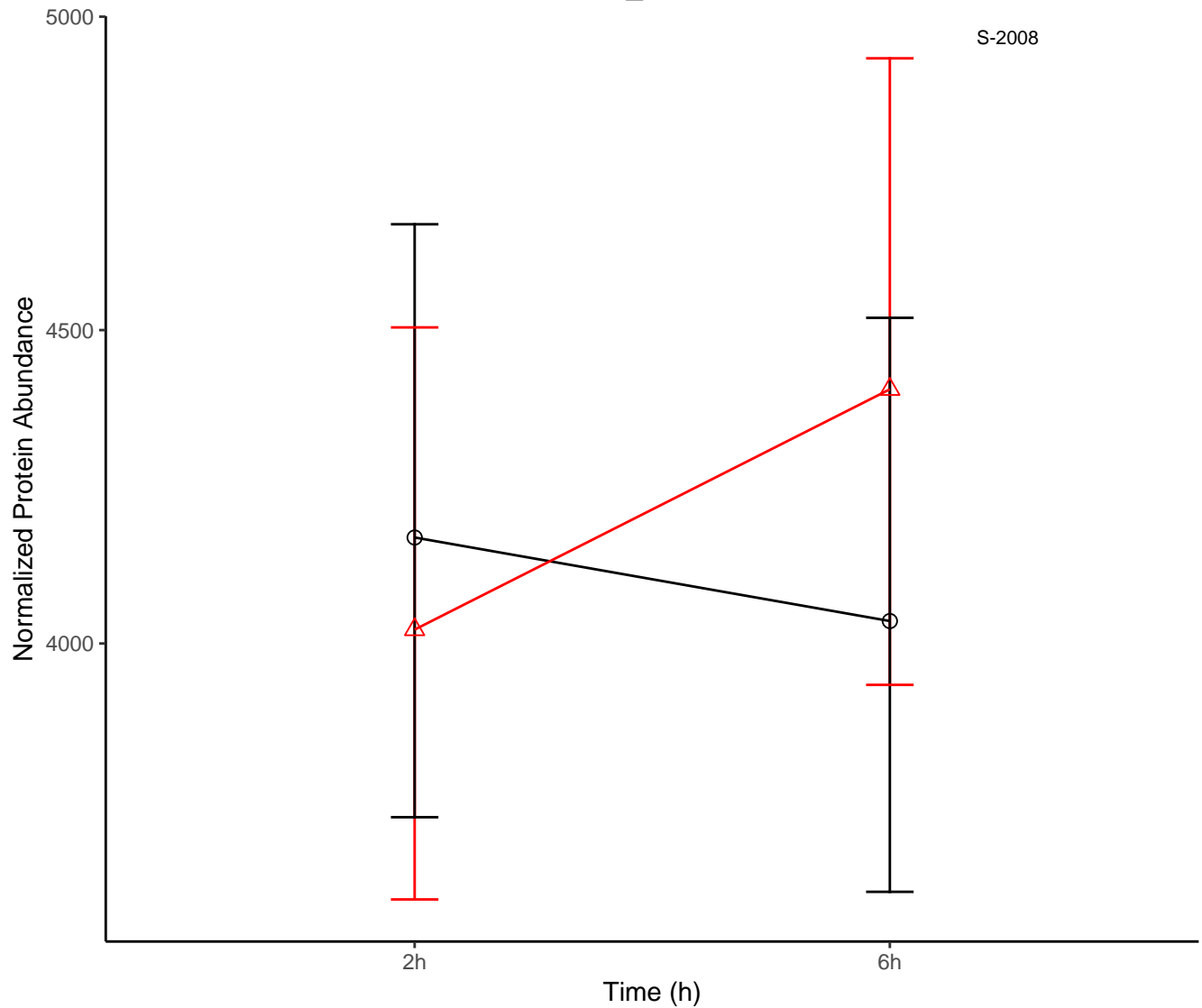


○ TSB-dex

△ TSB

# Y769\_STAAM

S-2008



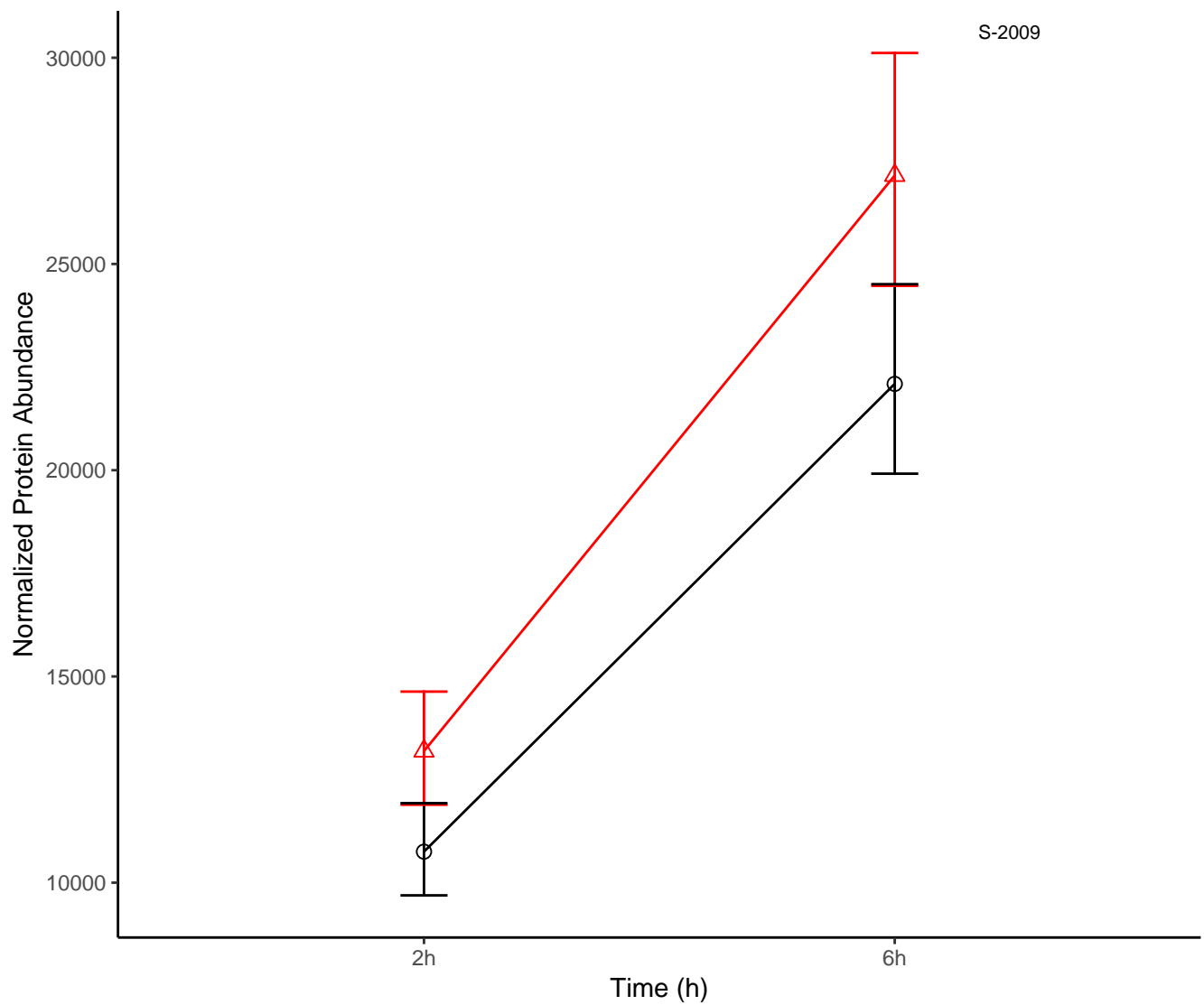
○ TSB-dex

△ TSB



# Y840\_STAAM

S-2009

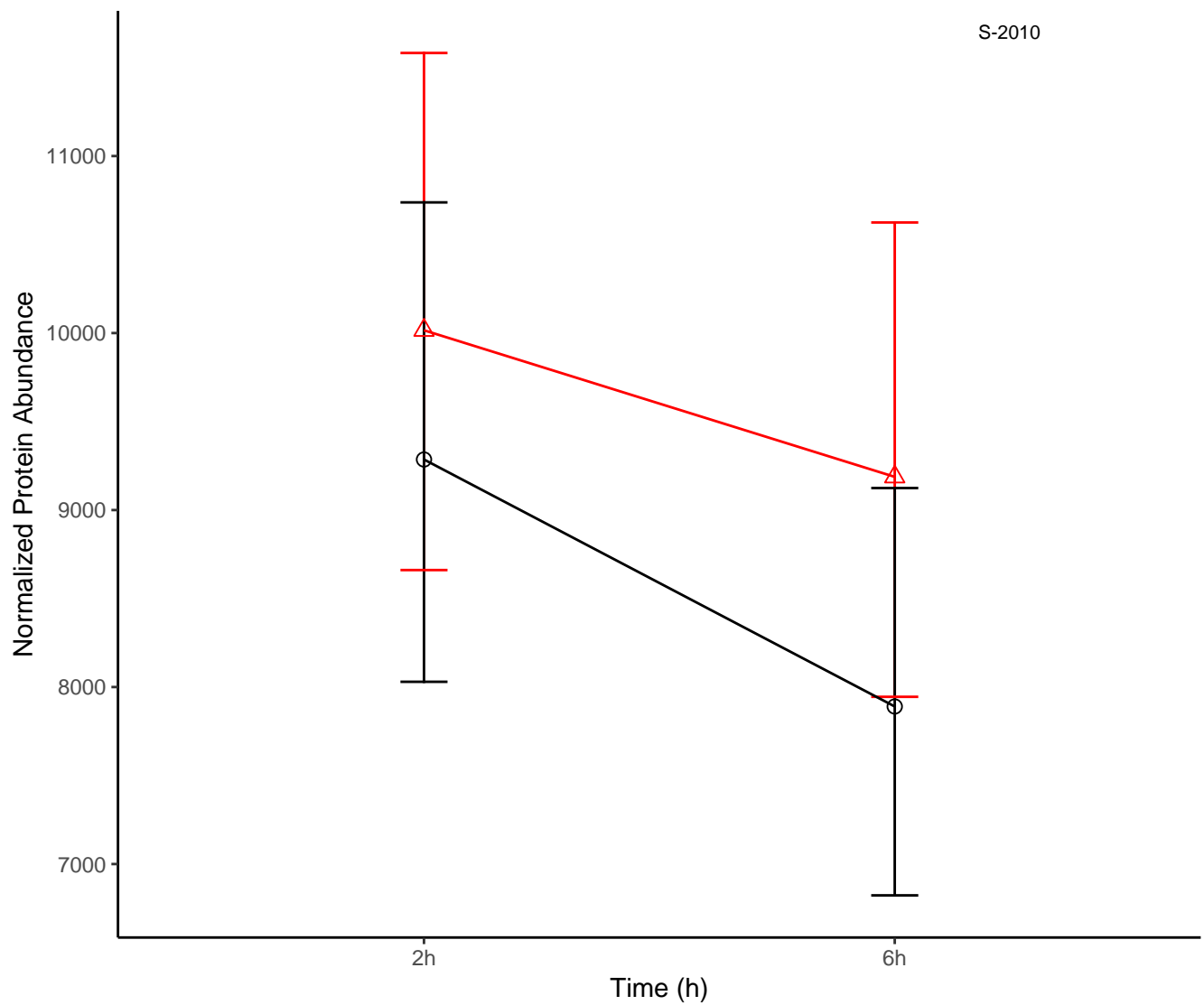


○ TSB-dex

△ TSB

# Y846\_STAAM

S-2010

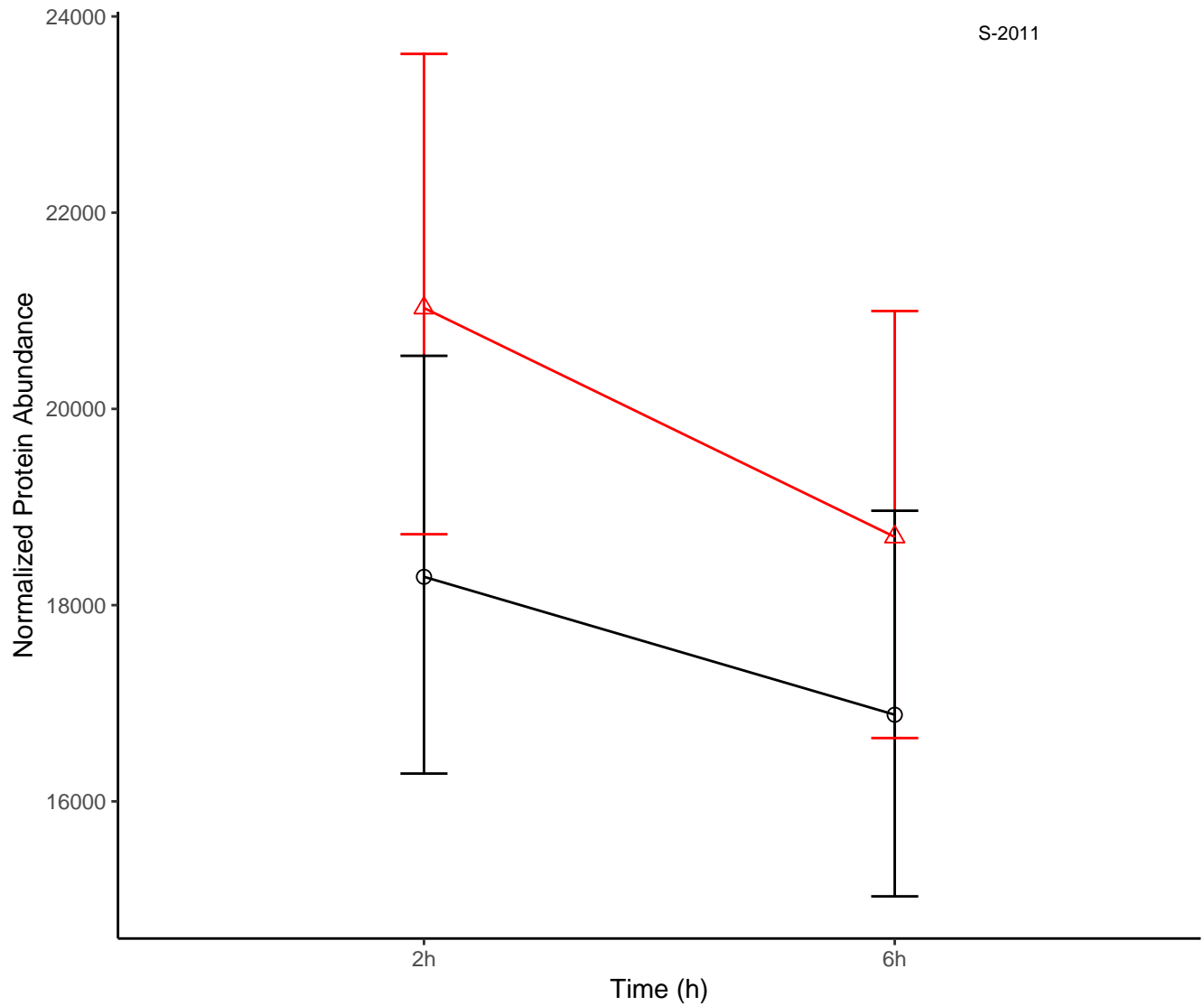


○ TSB-dex

△ TSB

# Y941\_STAAM

S-2011

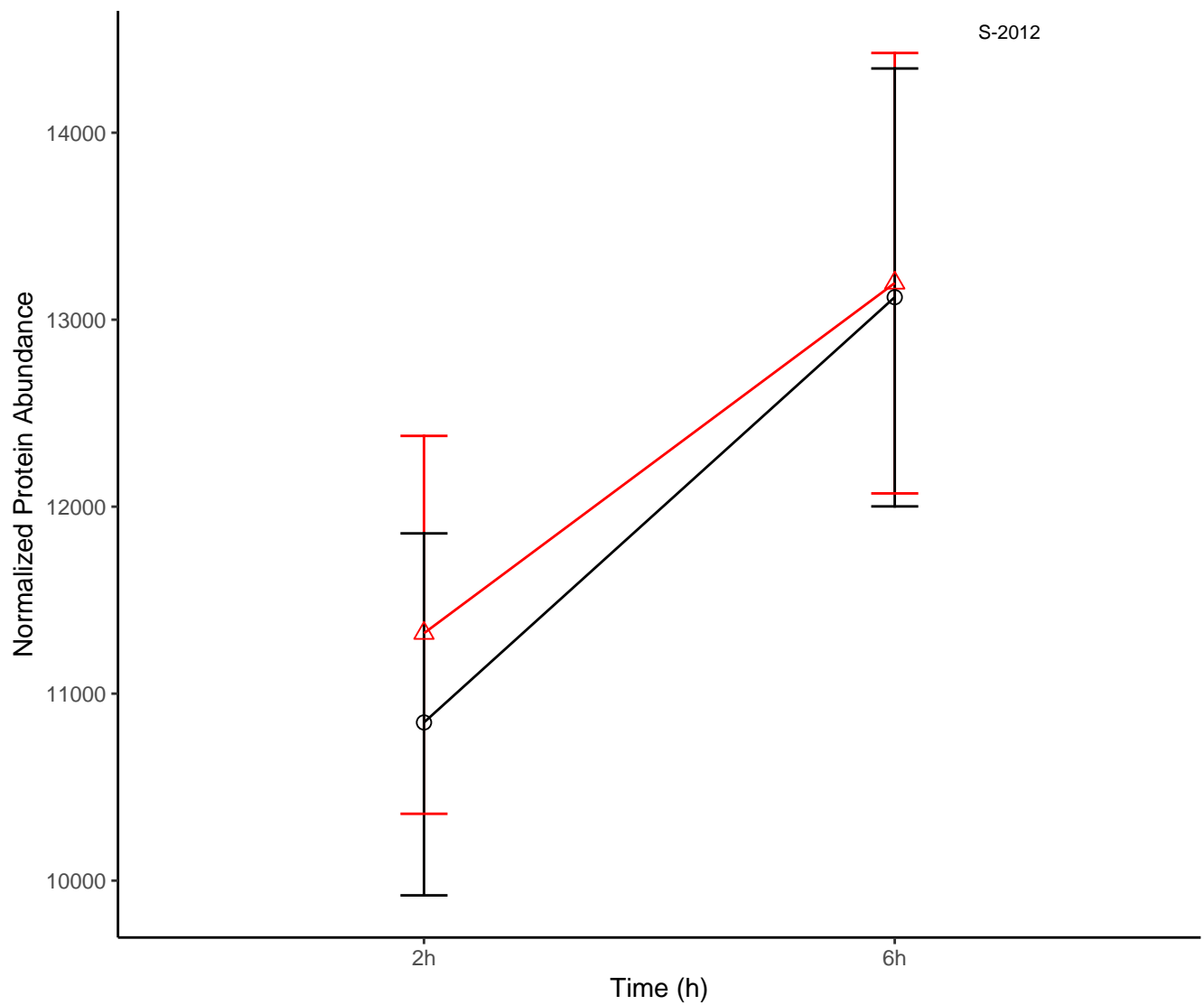


○ TSB-dex

△ TSB

# Y968\_STAAM

S-2012

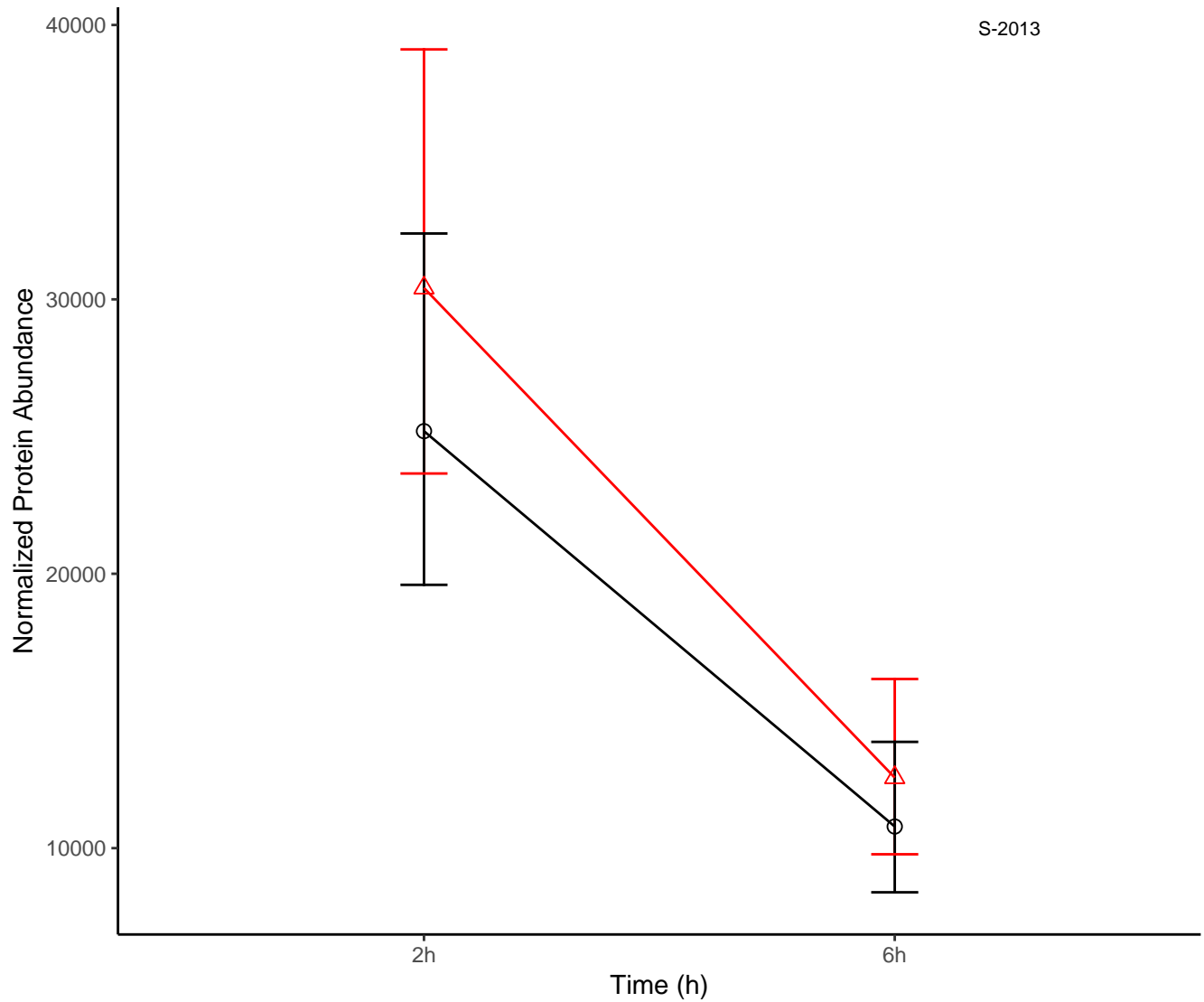


○ TSB-dex

△ TSB

# YABA\_STAAM

S-2013

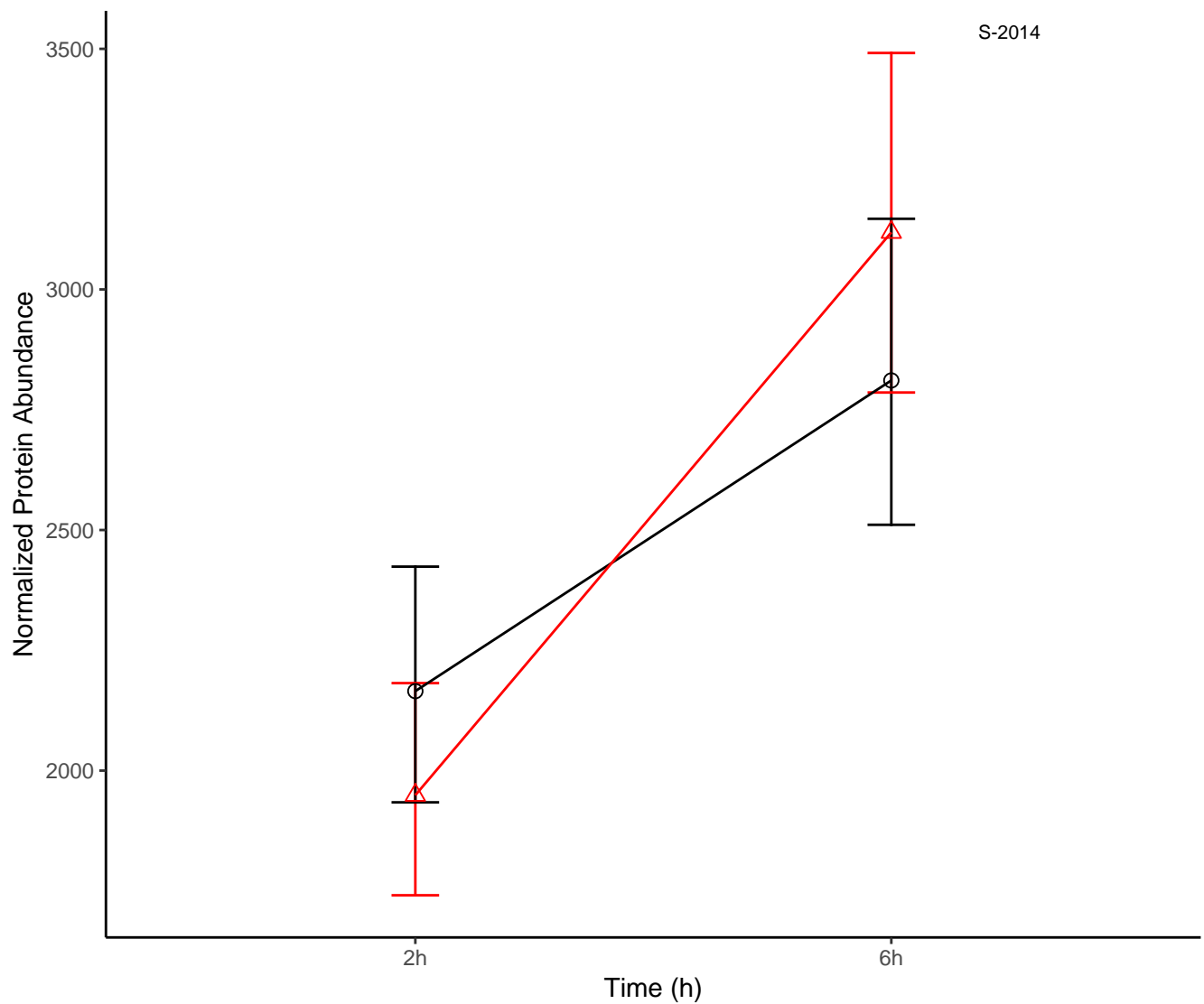


○ TSB-dex

△ TSB

# YBEY\_STAAM

S-2014



○ TSB-dex

△ TSB

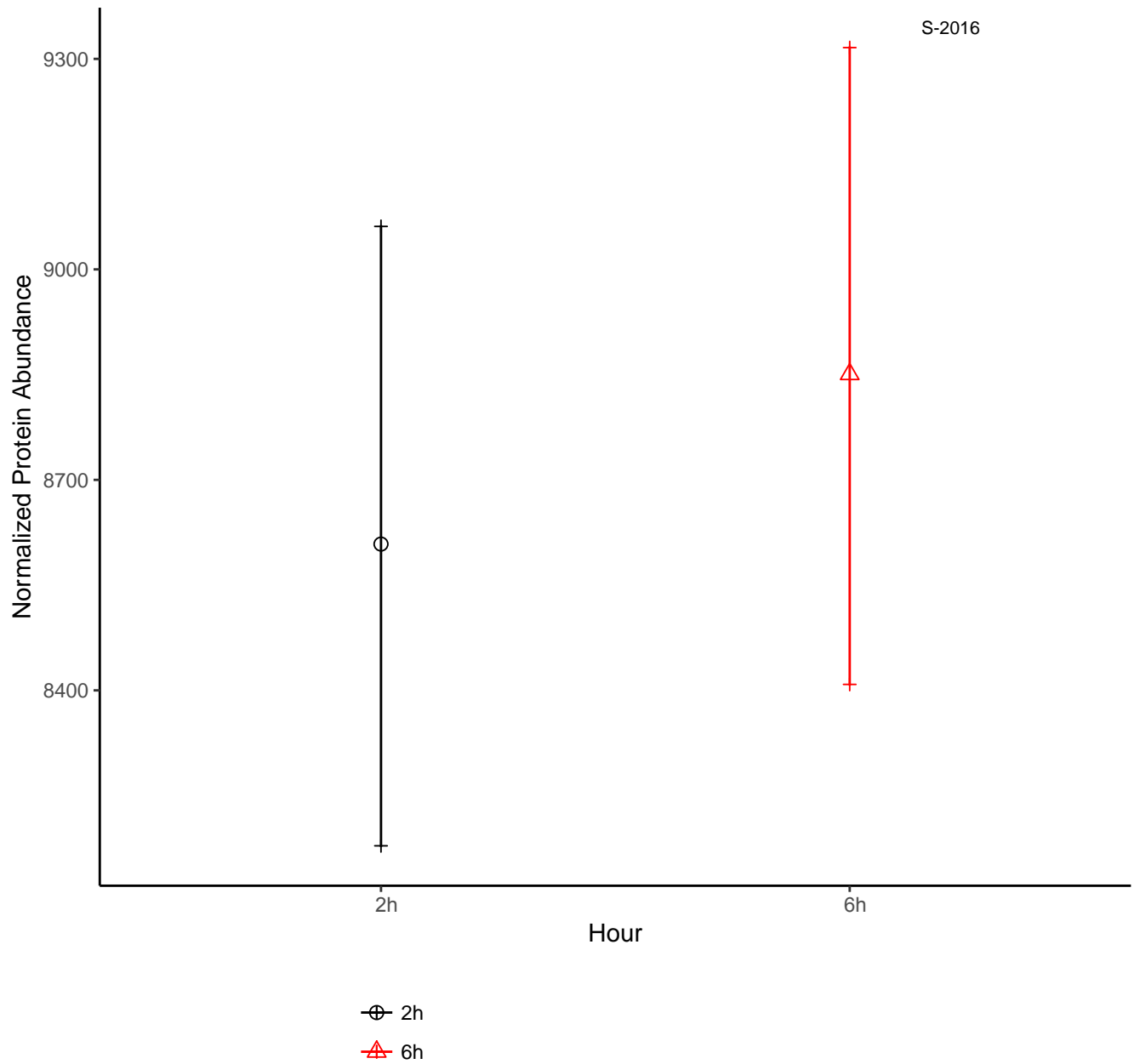
**Figure J.**

1-way analysis: h

Pages: S2015-S2516

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if the 3-way and 2-way interactions were rejected and a significant main effect (1-way) was identified for hour.

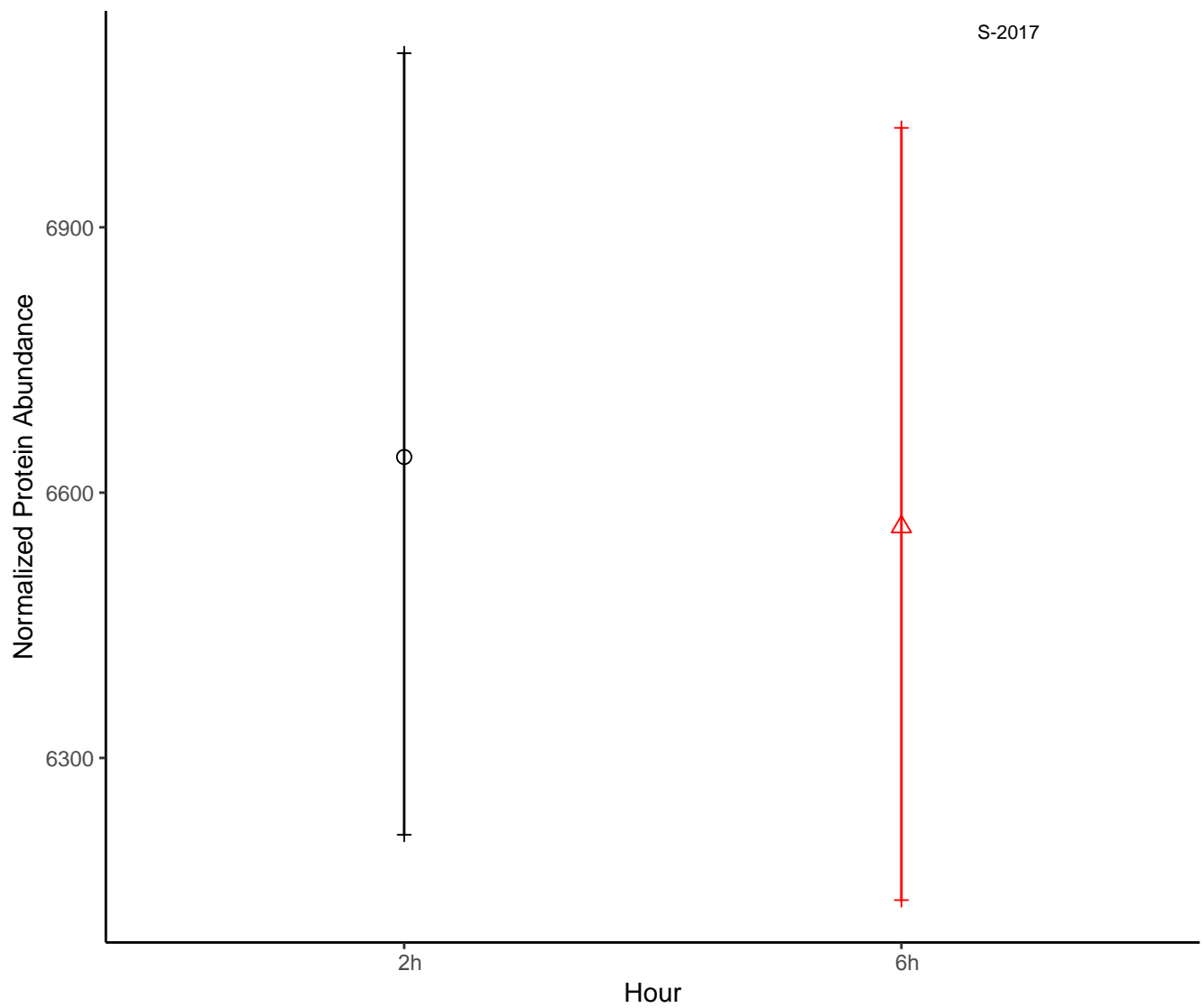
# 6PGD\_STAAM





# ACCA\_STAAM

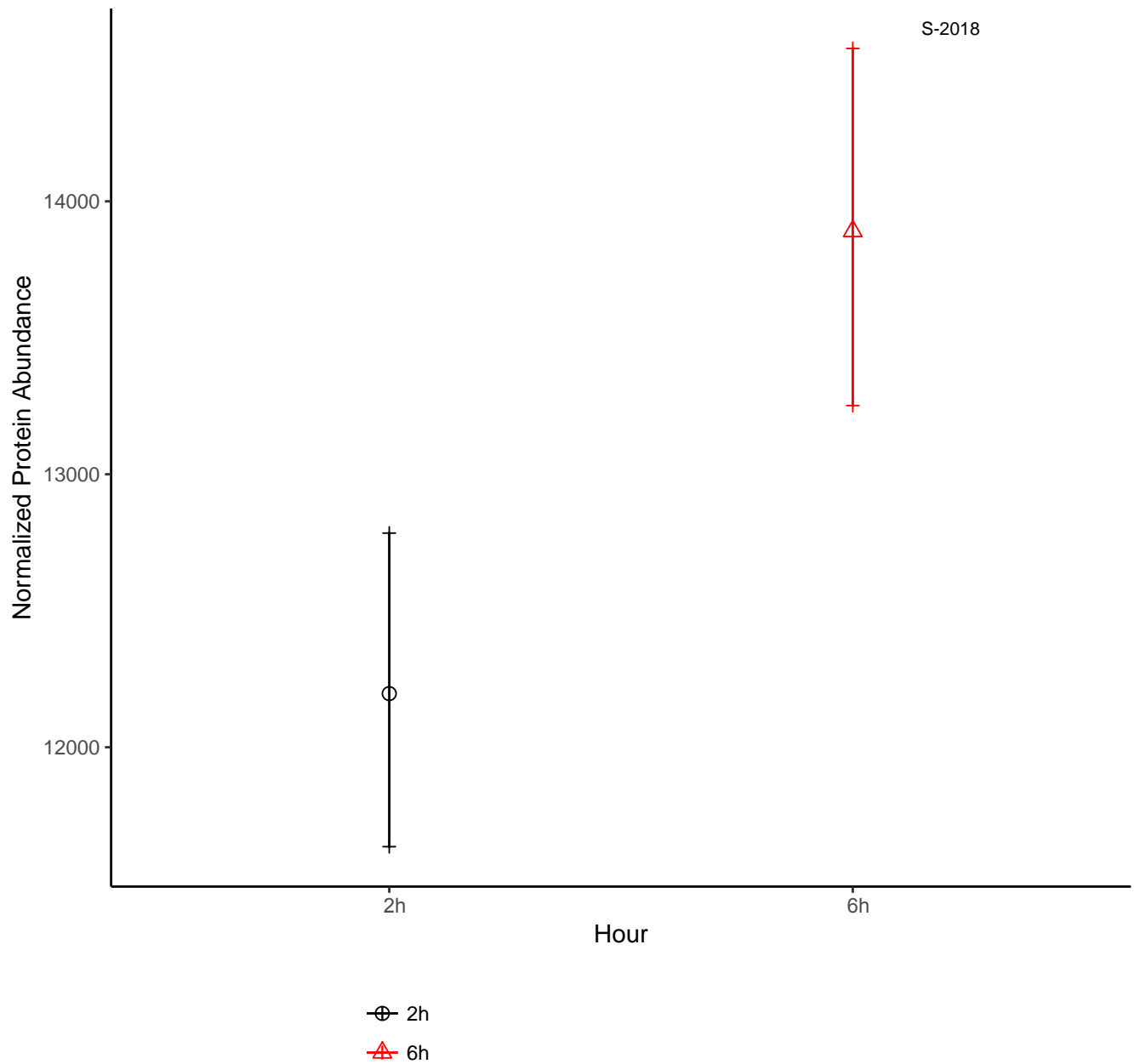
S-2017



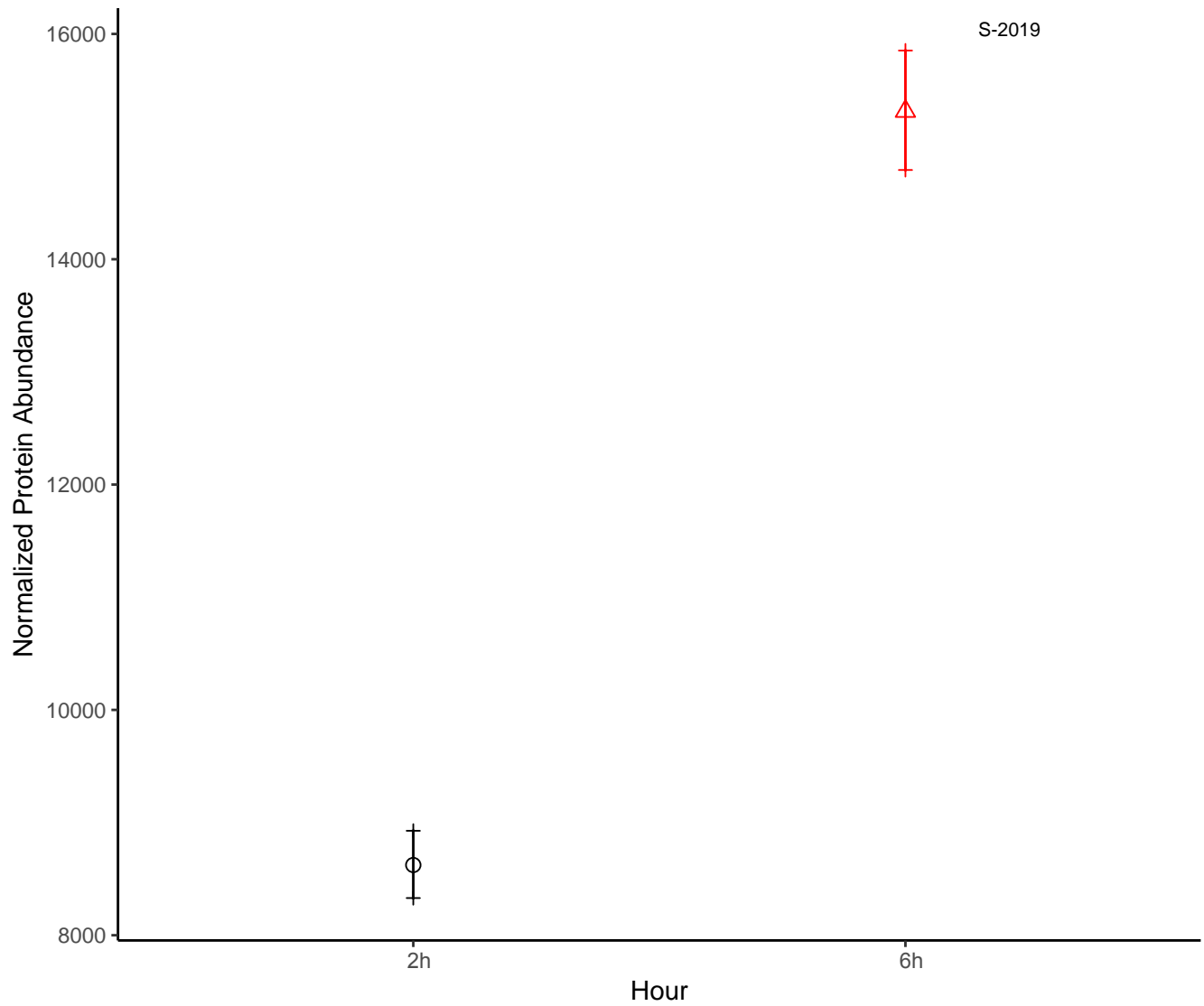
⊕ 2h

△ 6h

# ACKA\_STAAM



# ACON\_STAAM

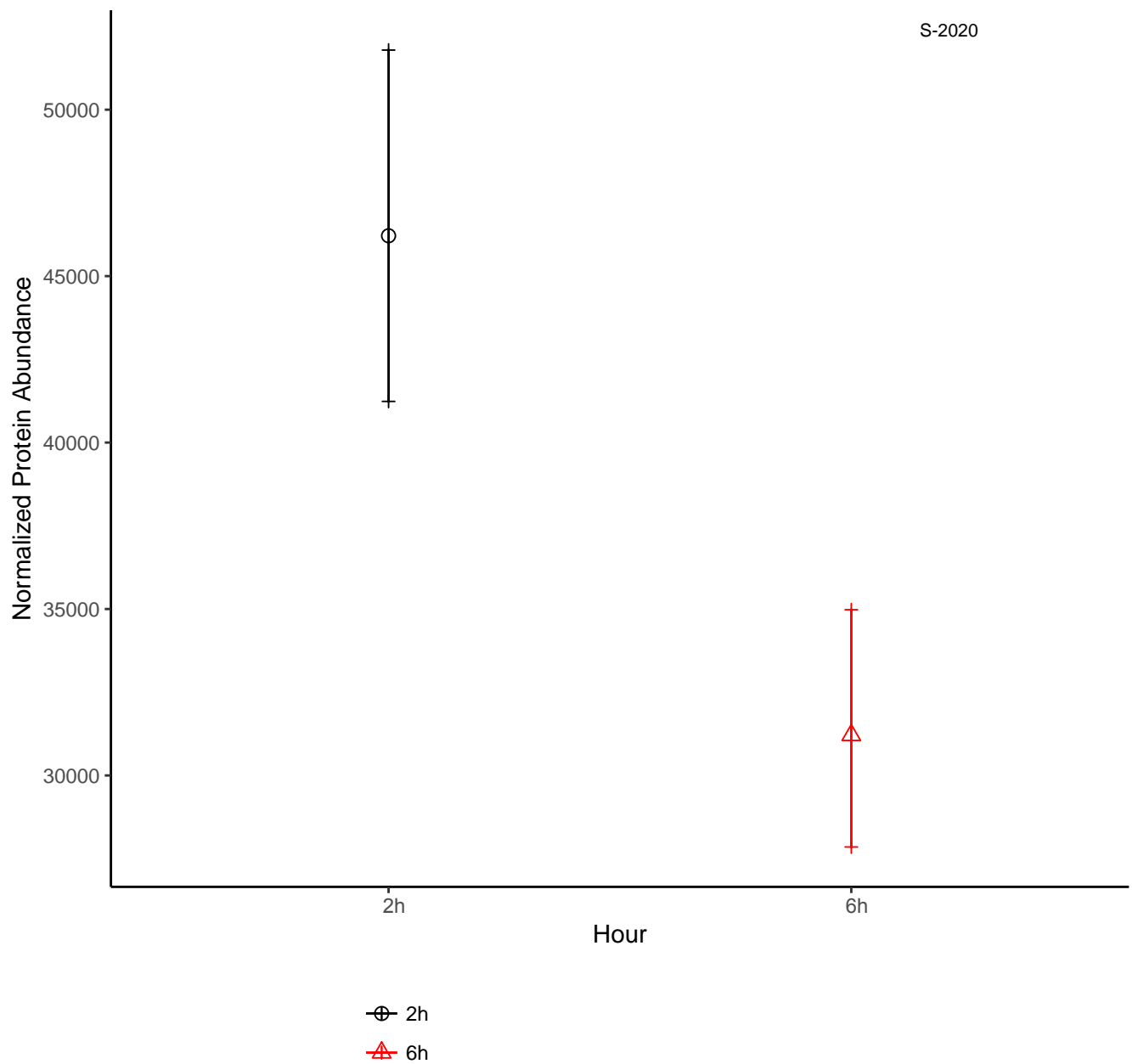


⊕ 2h

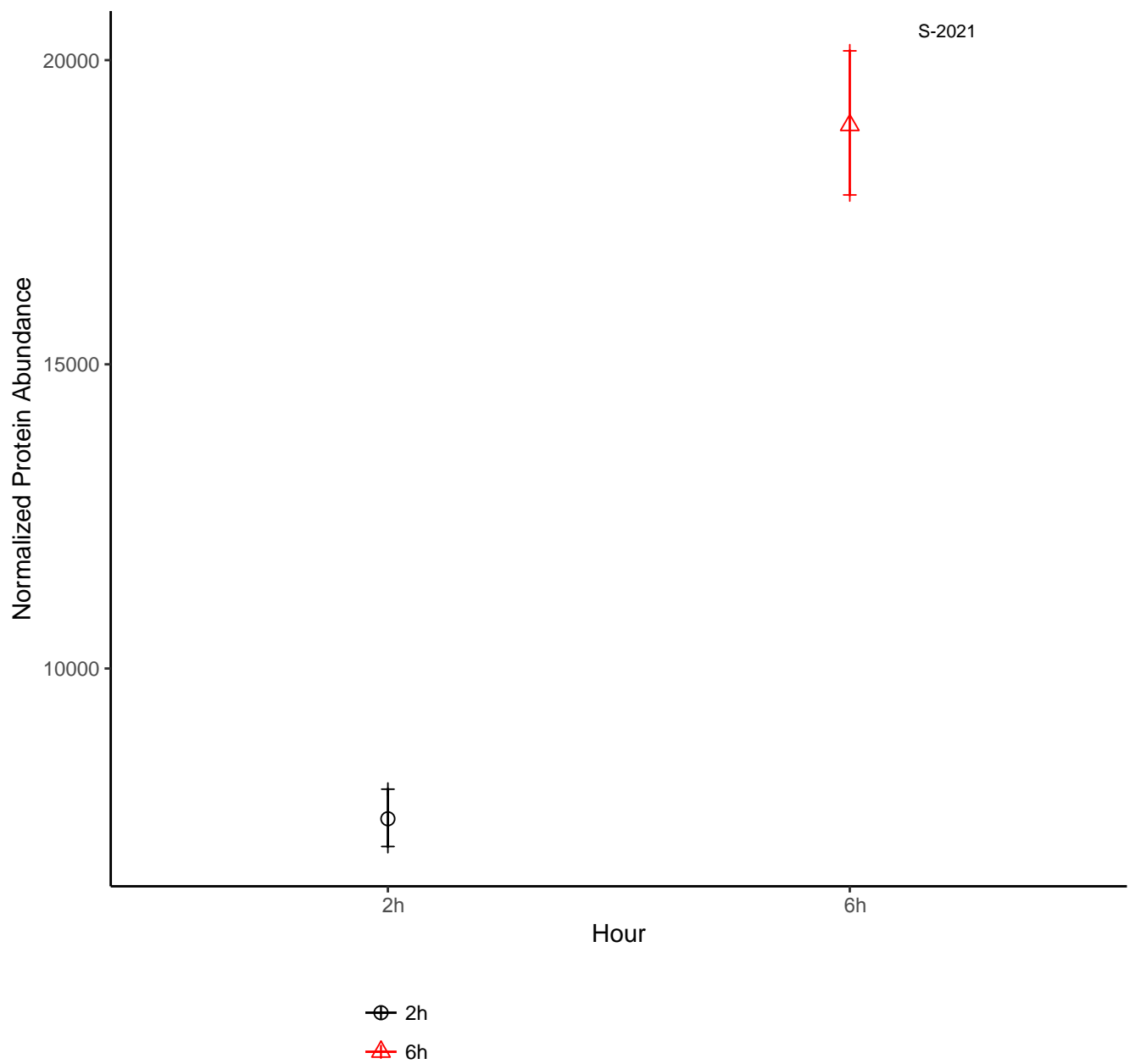
△ 6h

# ACP\_STAAM

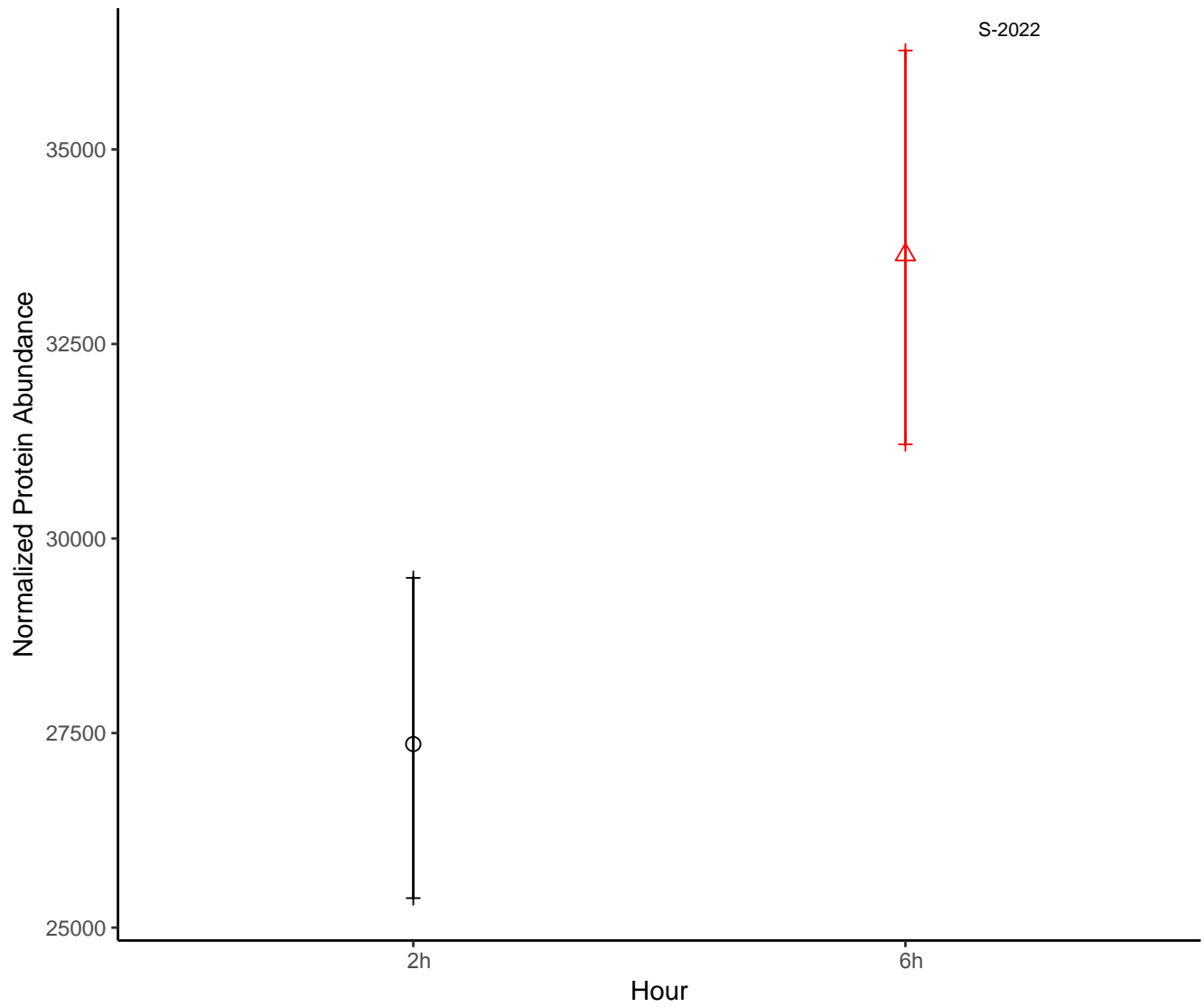
S-2020



# ADH\_STAAM



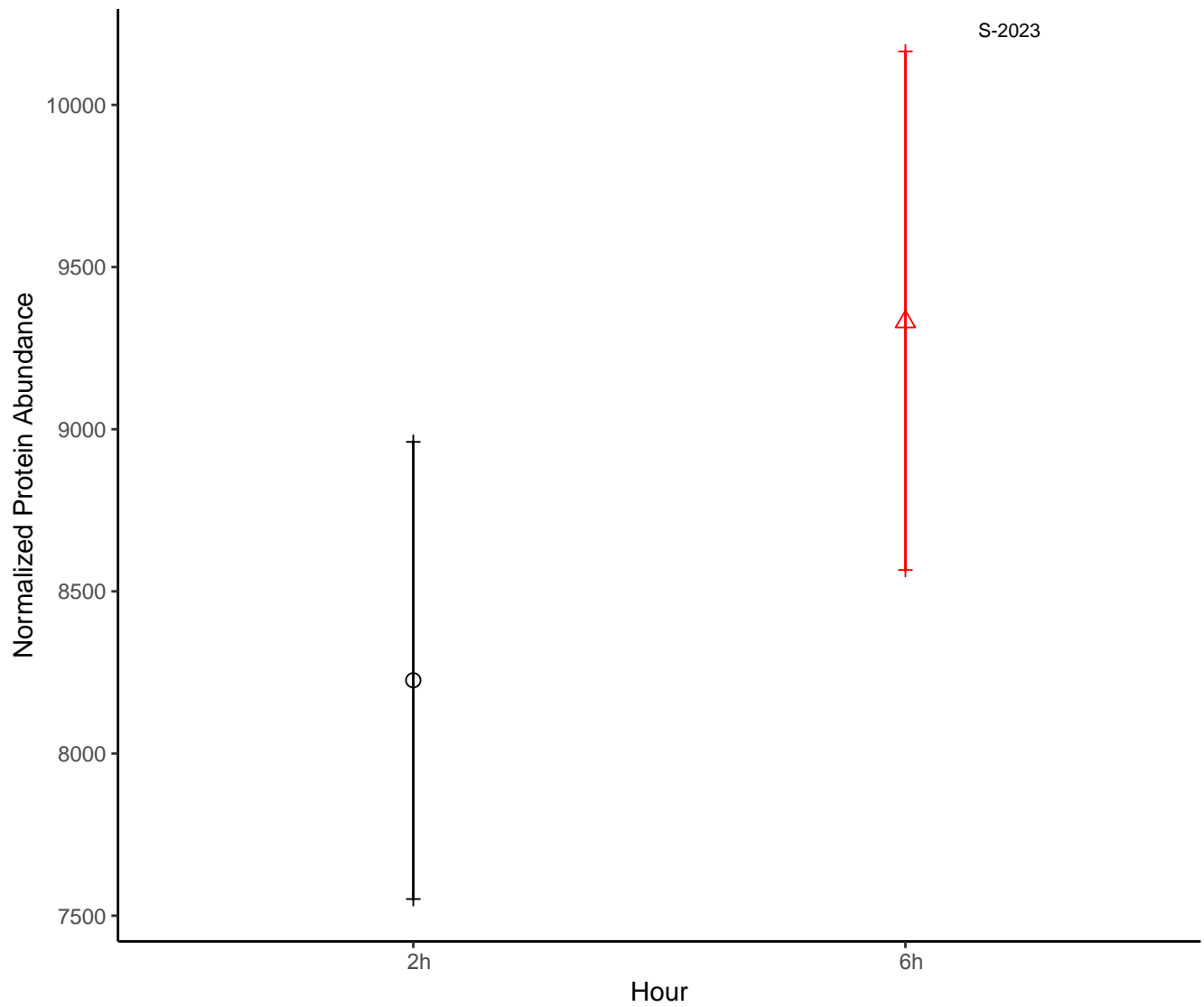
# AHPC\_STAAM



⊕ 2h

△ 6h

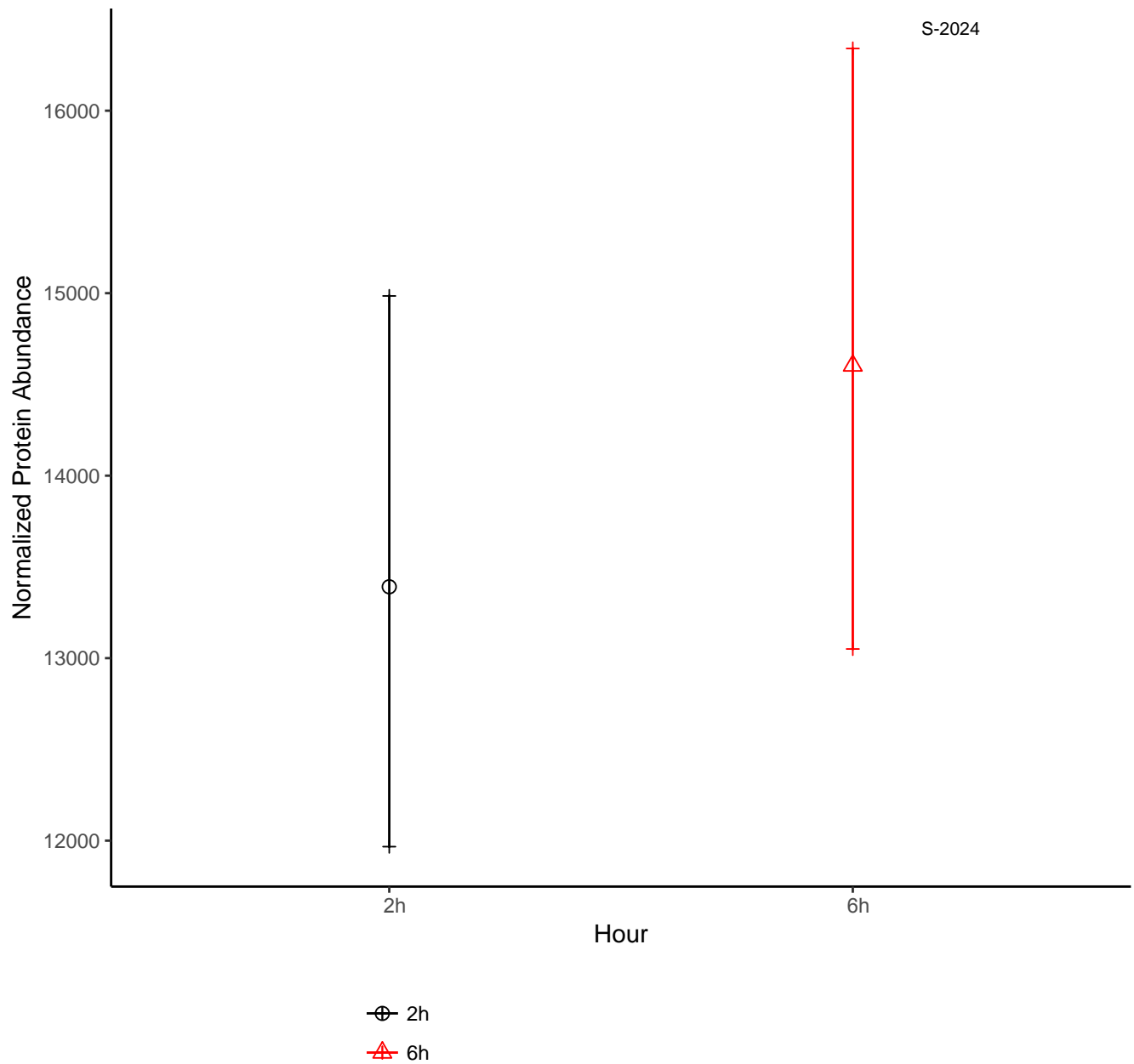
# AHPF\_STAAM



⊕ 2h

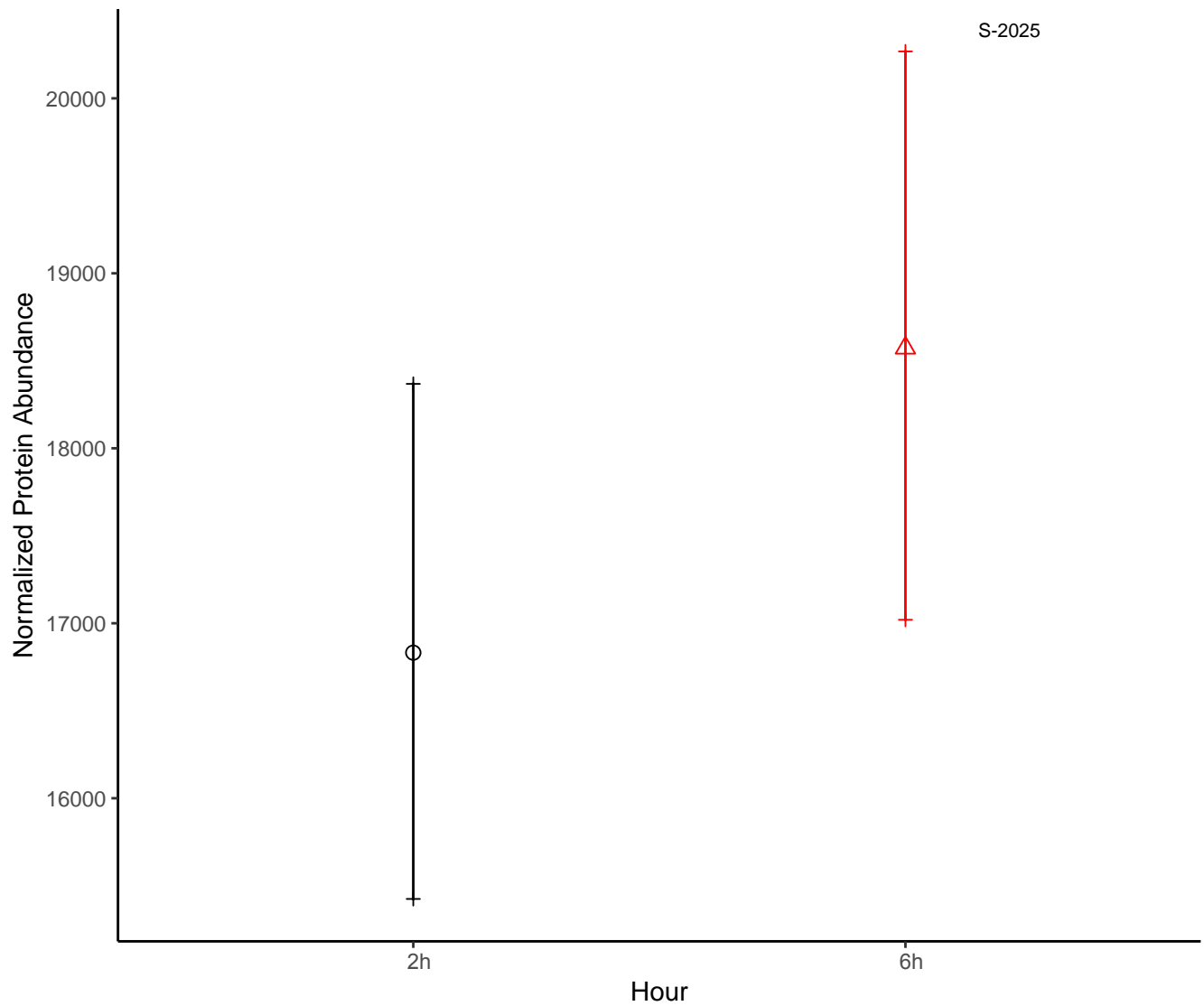
△ 6h

# ALD1\_STAAM





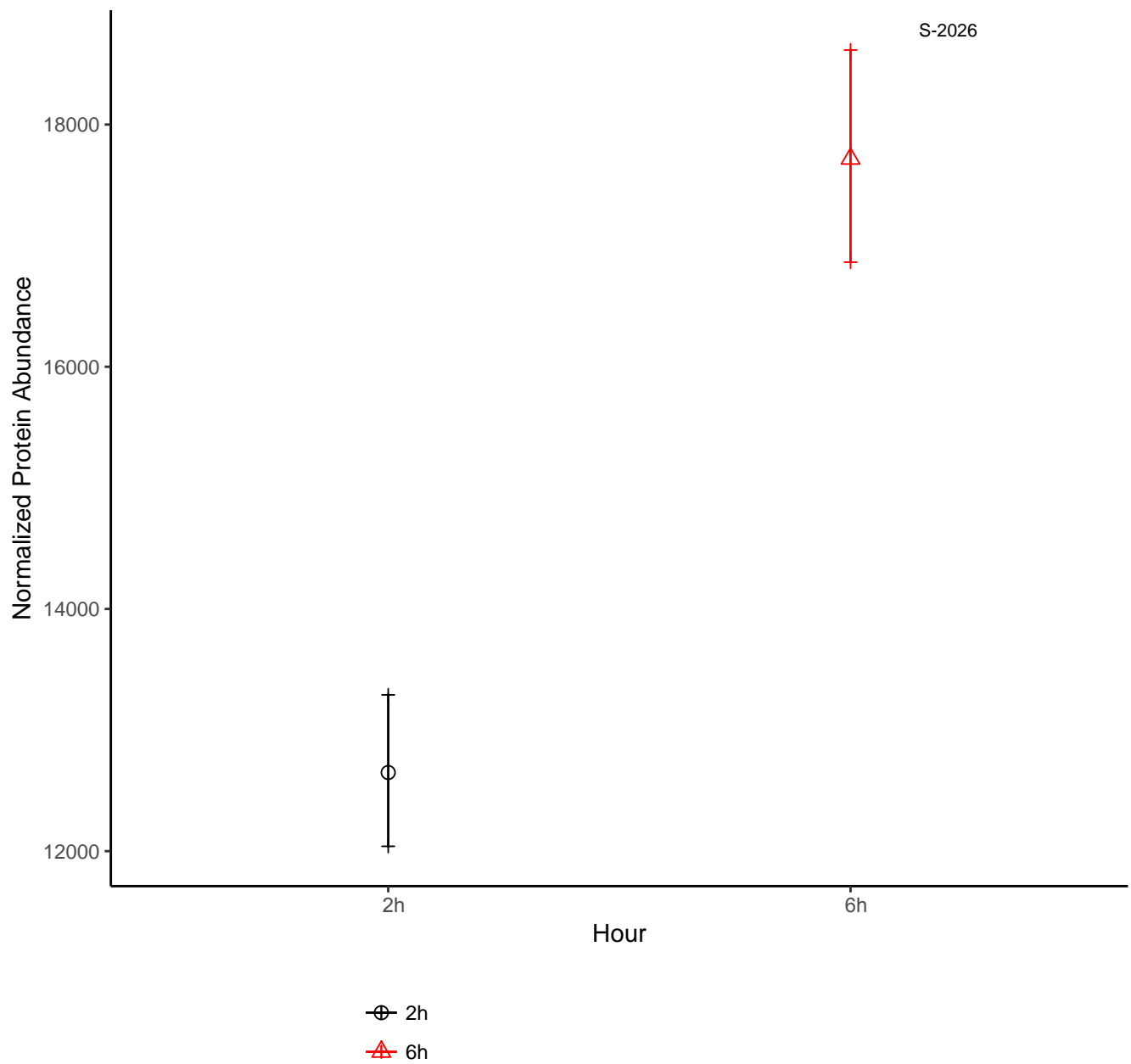
# ALDA\_STAAM



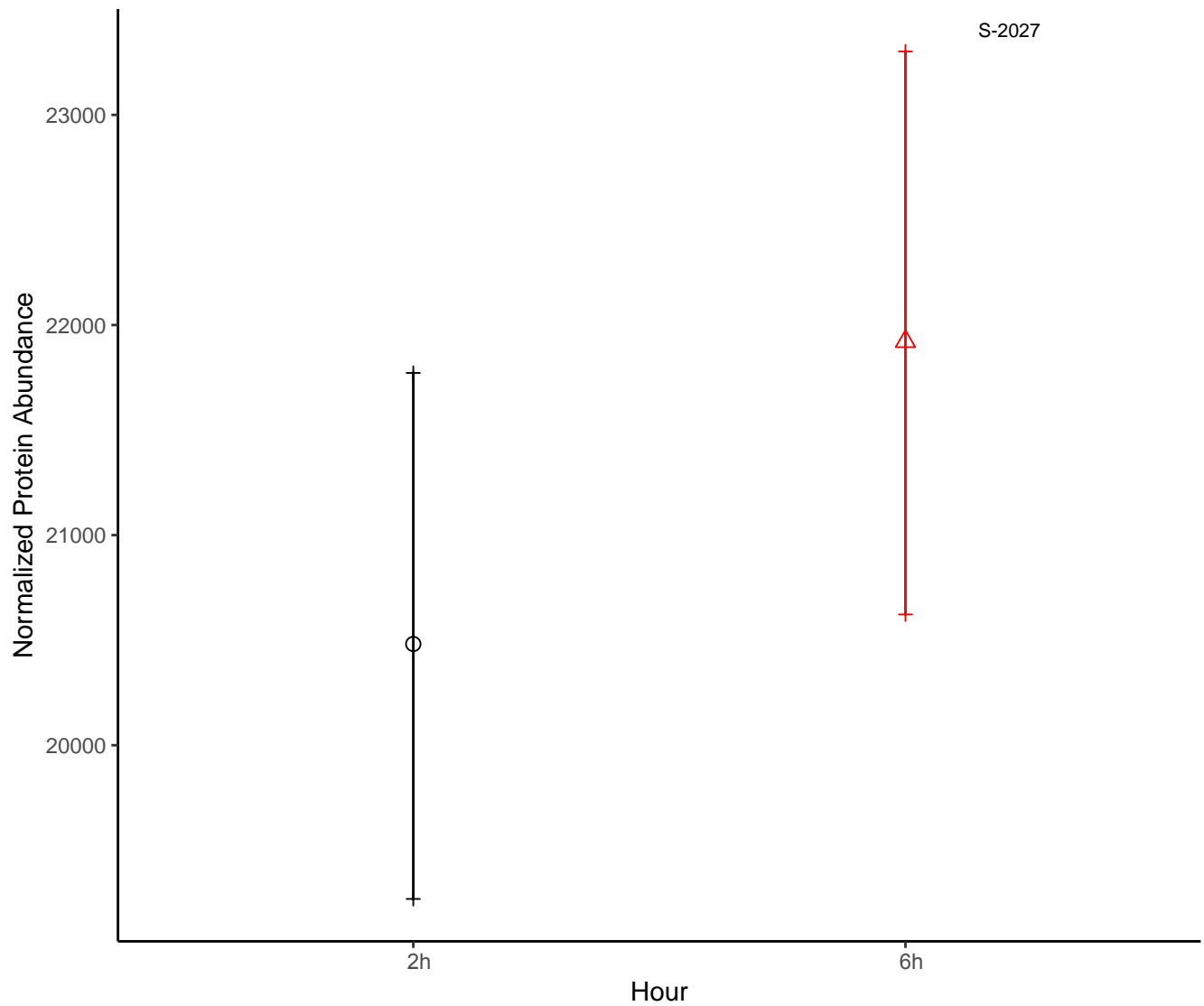
⊕ 2h

△ 6h

# ALF1\_STAAM



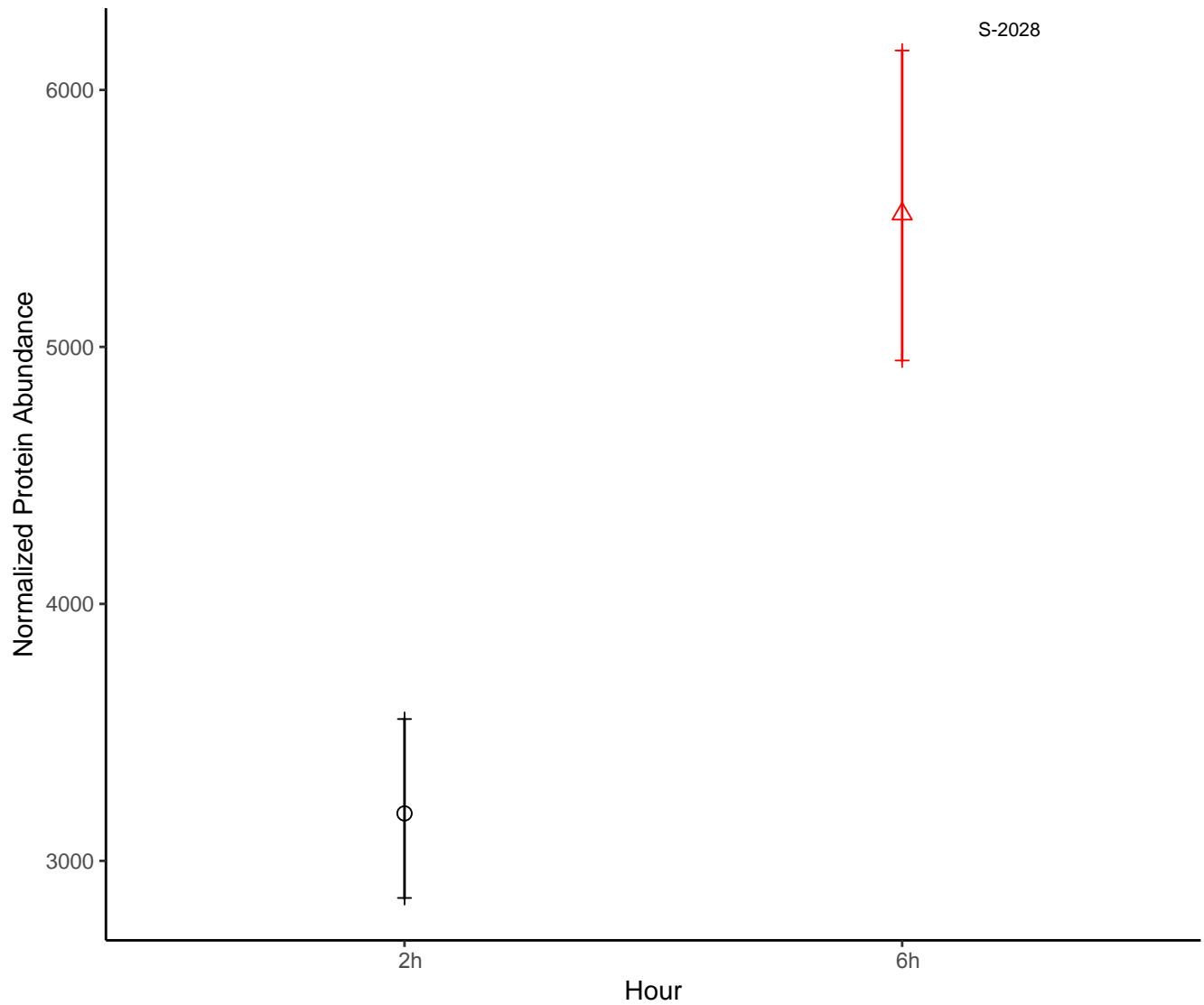
# ALF2\_STAAM



⊕ 2h

△ 6h

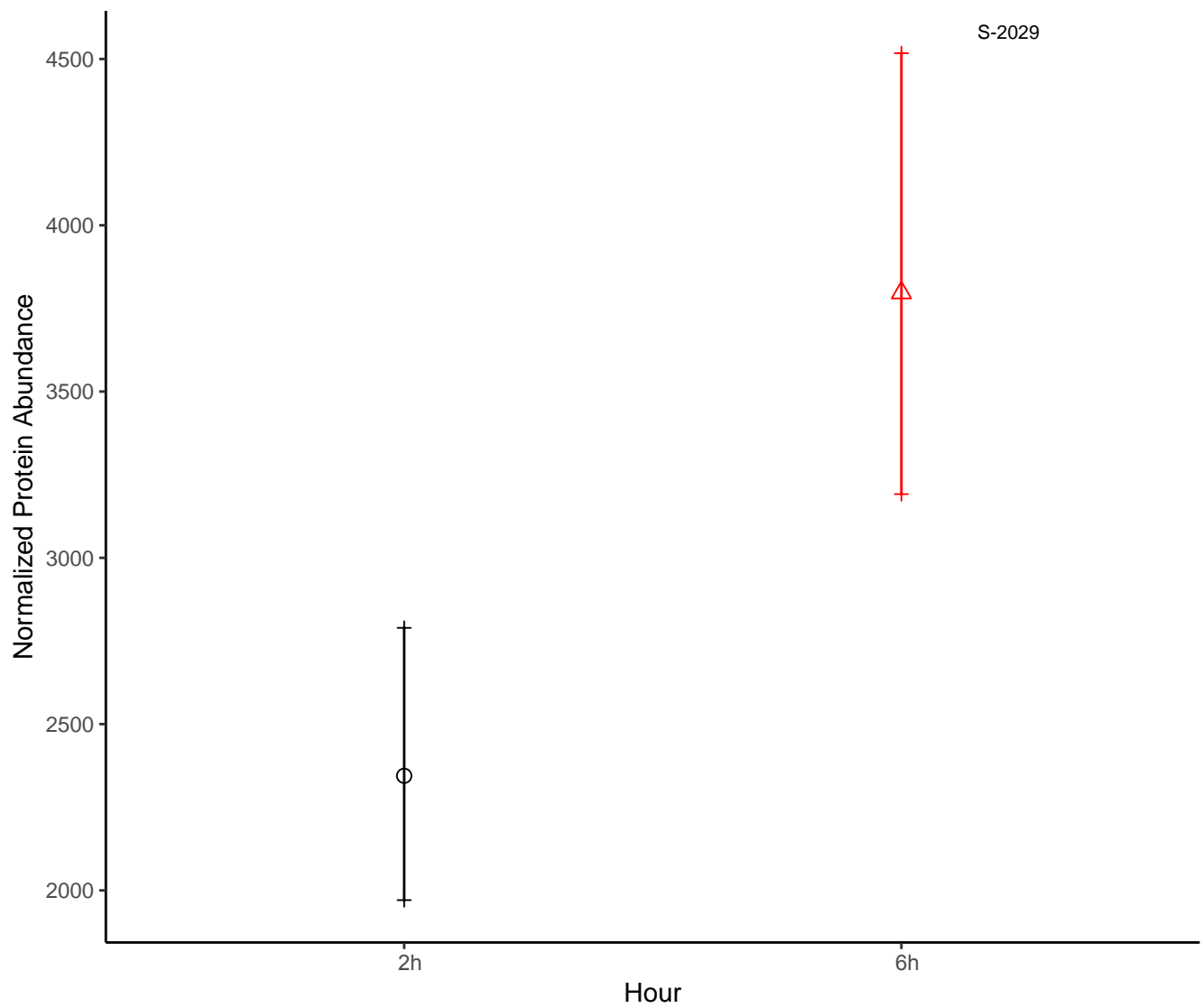
# APT\_STAAM



⊕ 2h

△ 6h

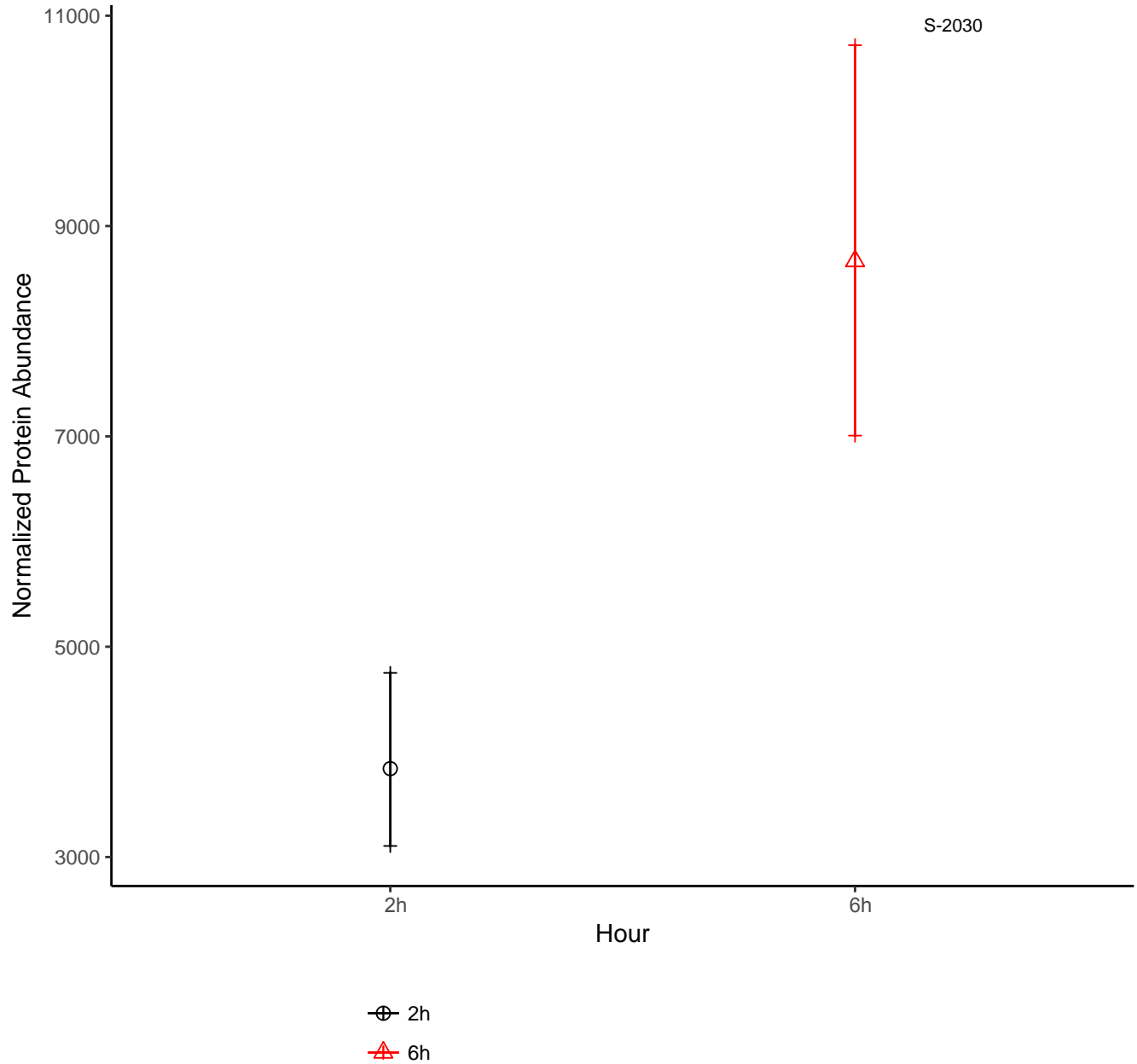
# ARCA\_STAAM



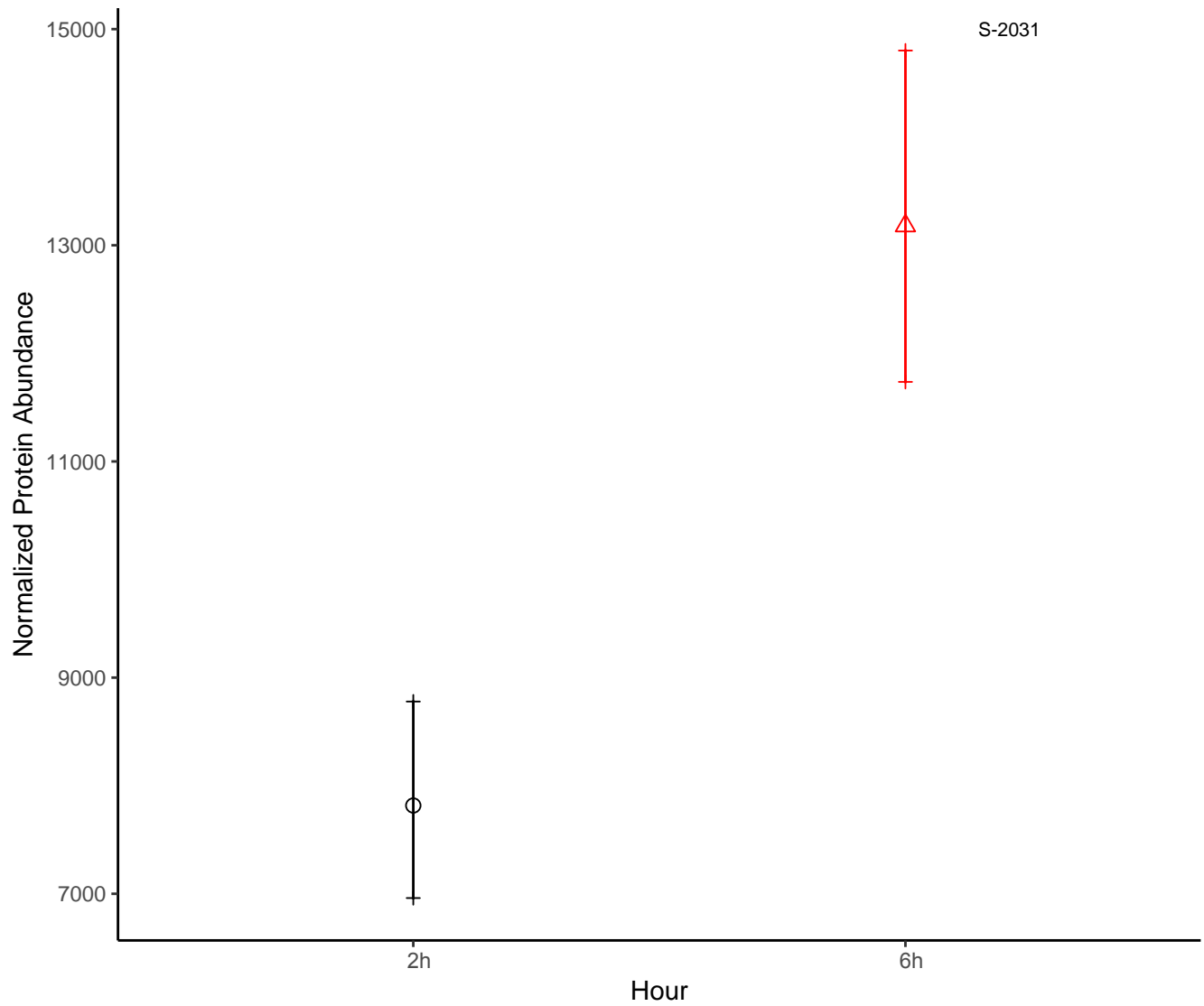
⊕ 2h

△ 6h

# ARCC1\_STAAM



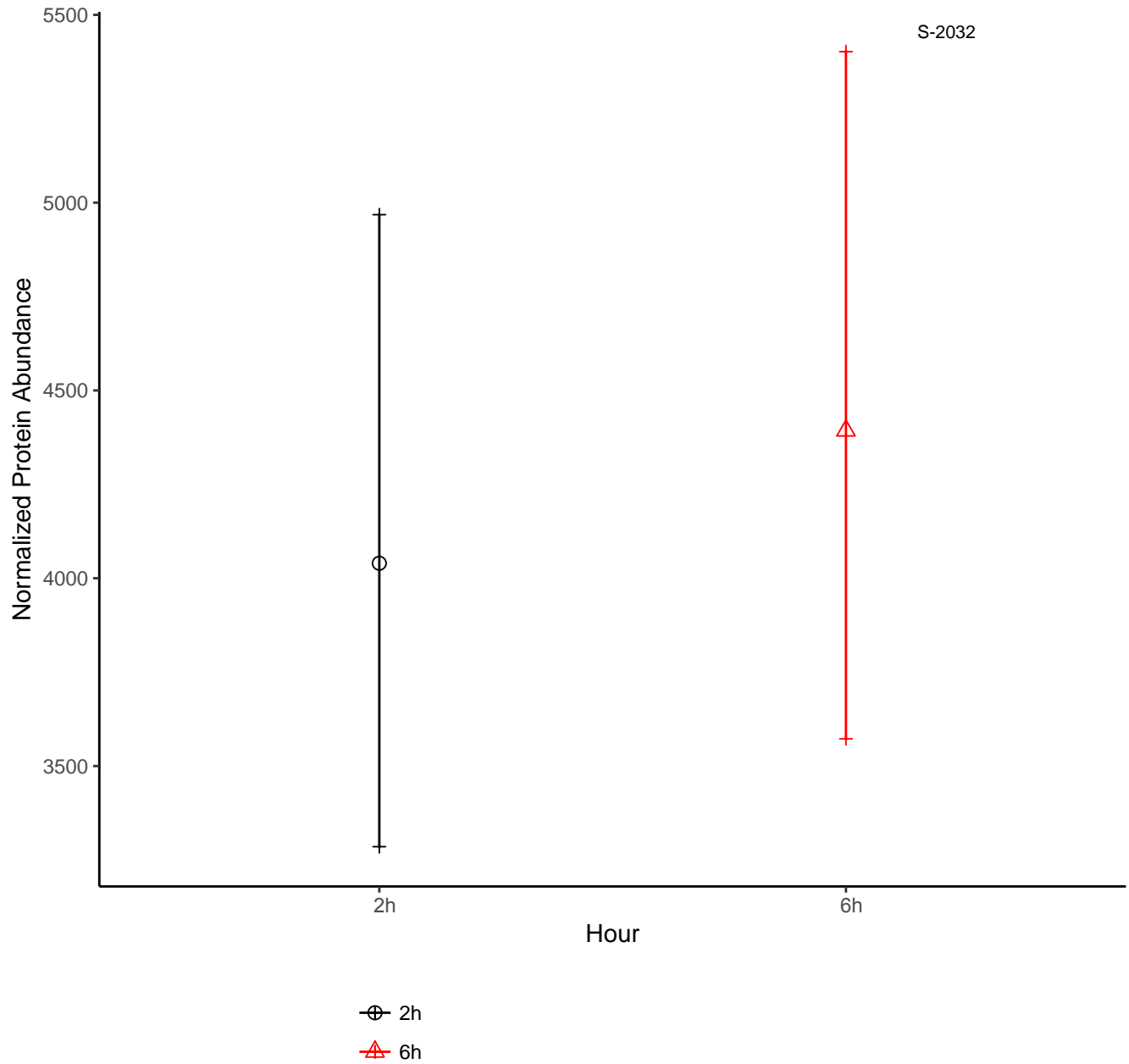
# ARGI\_STAAM



⊕ 2h

△ 6h

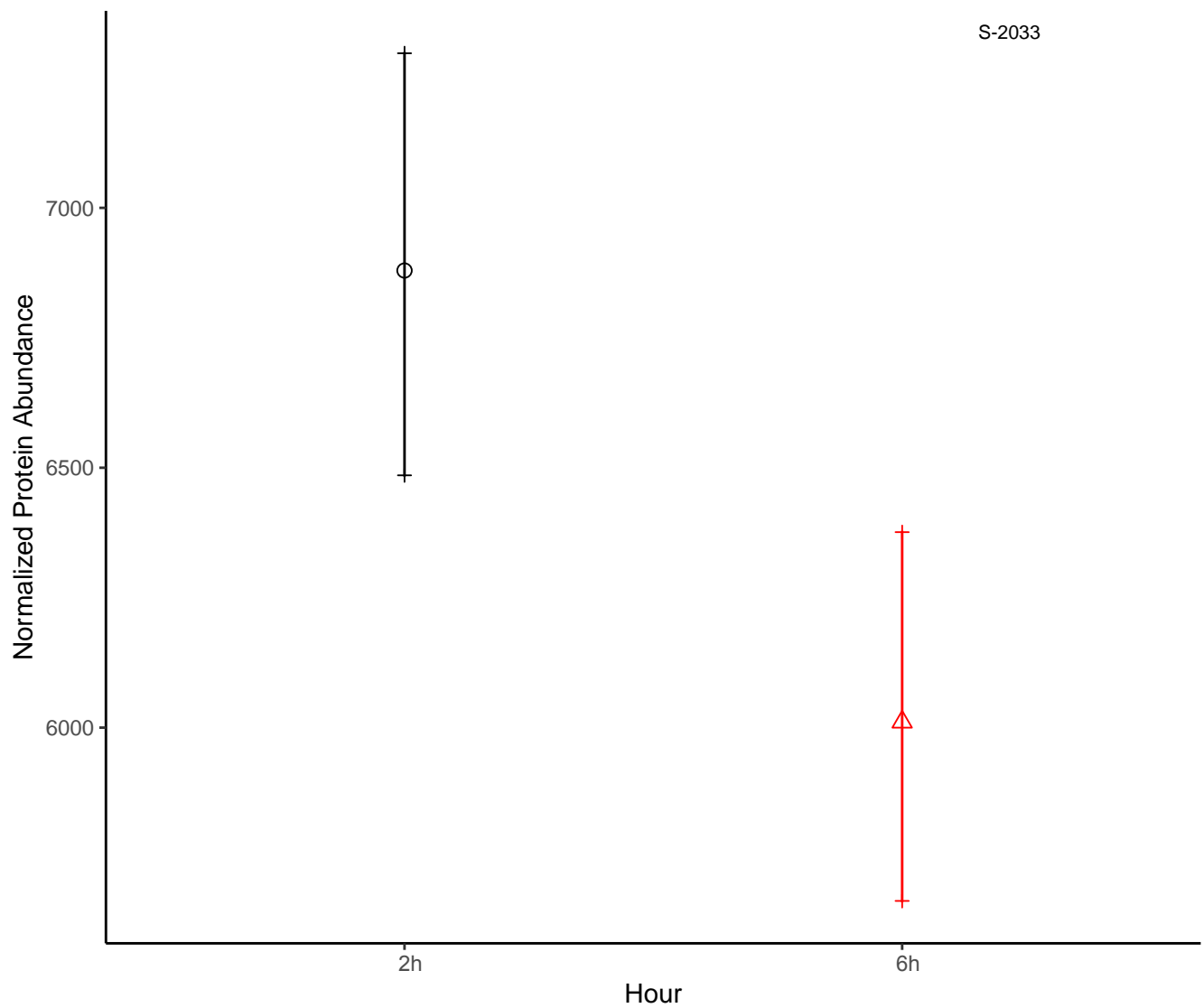
# ARGR\_STAAM





# ARLR\_STAAM

S-2033

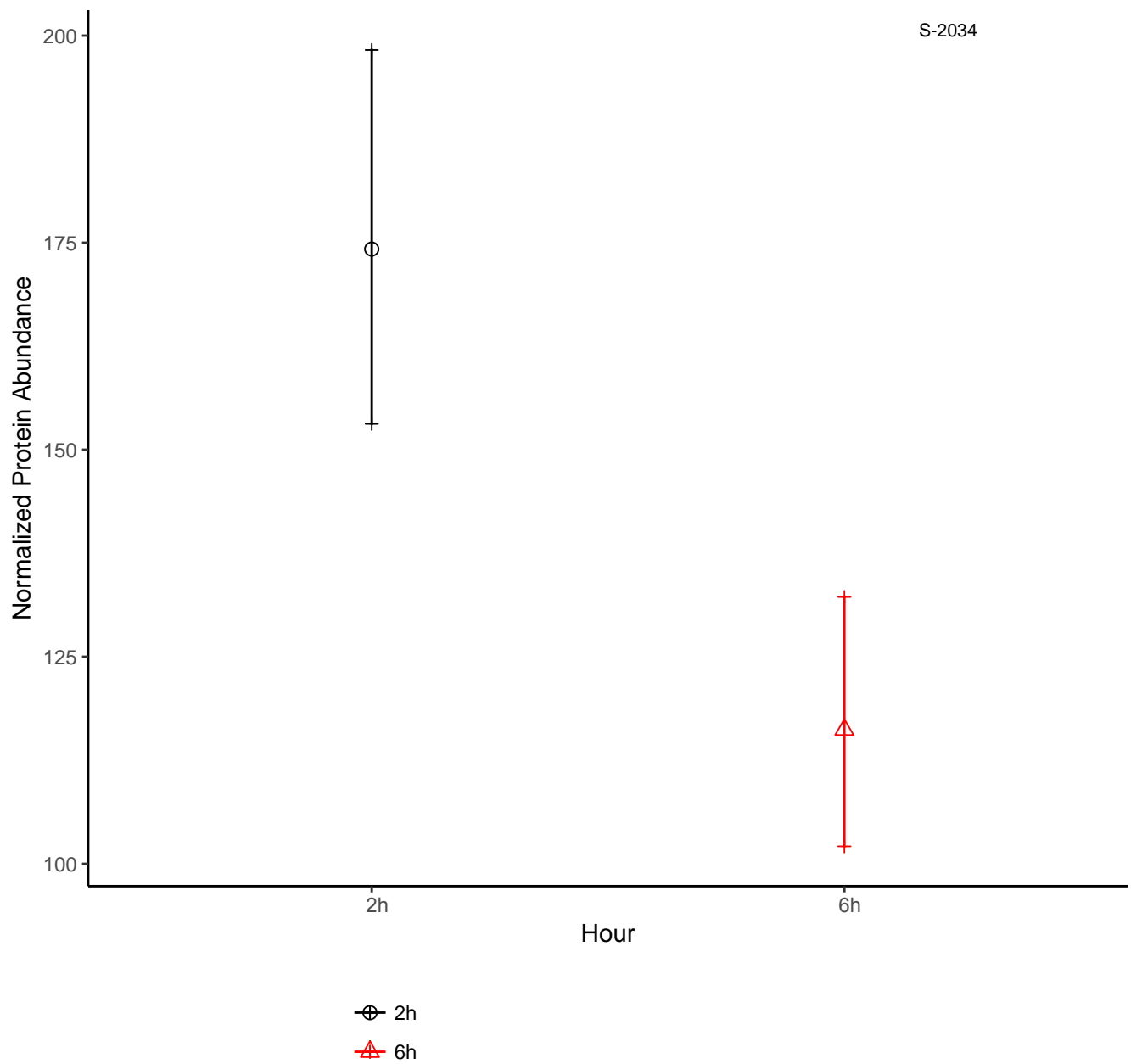


⊕ 2h

△ 6h

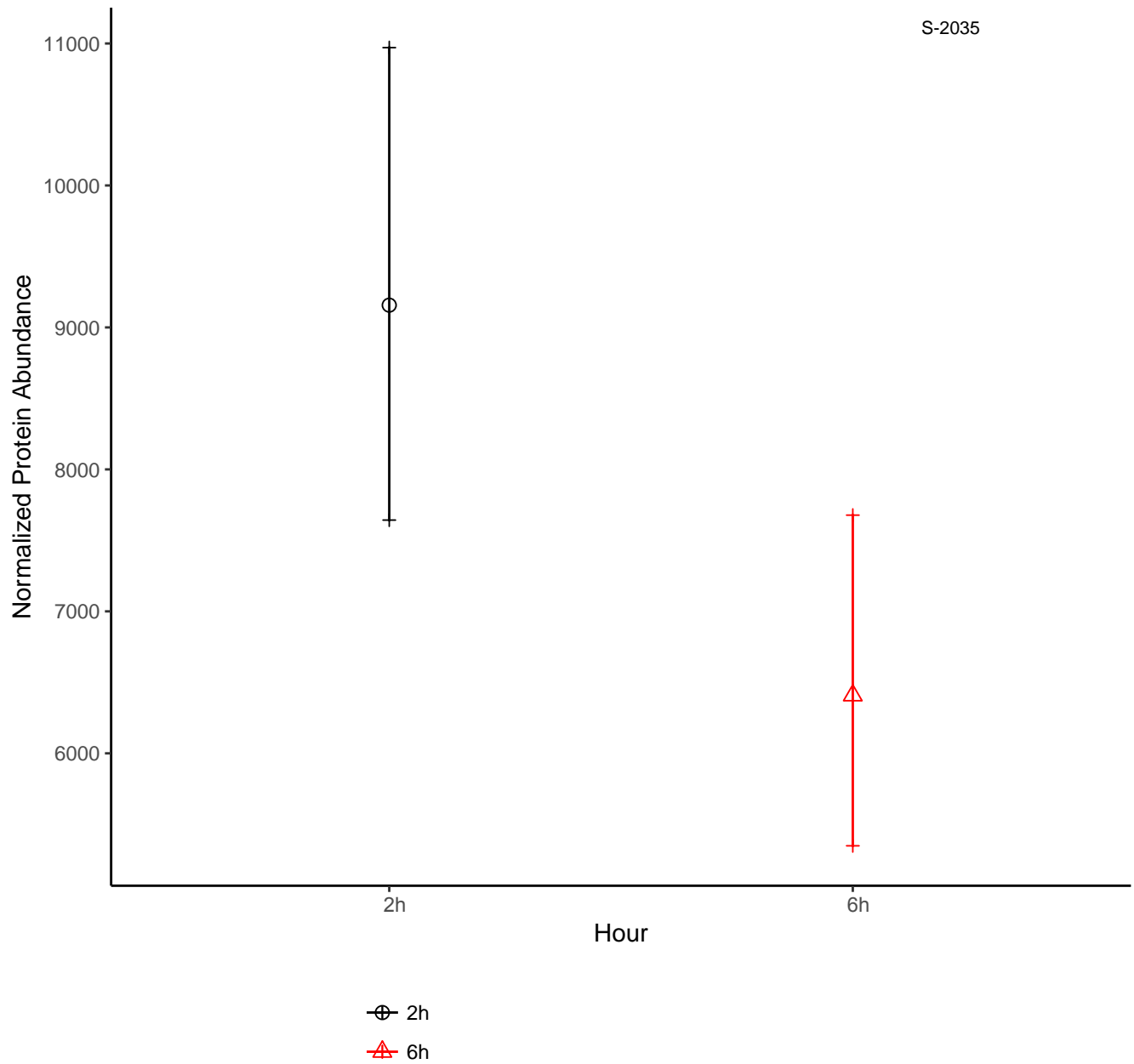
# ARLY\_STAAM

S-2034

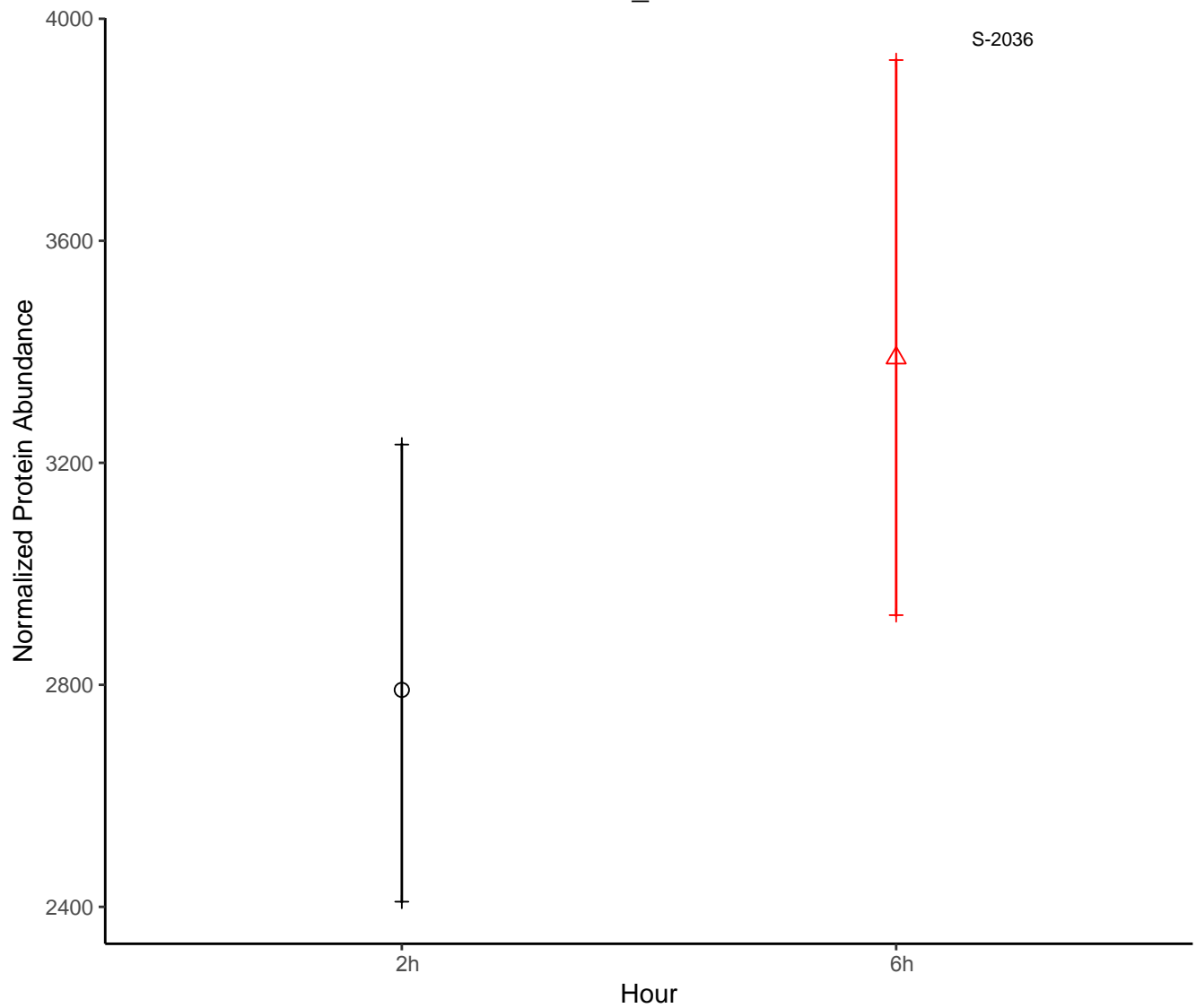


# AROA\_STAAM

S-2035



# AROB\_STAAM

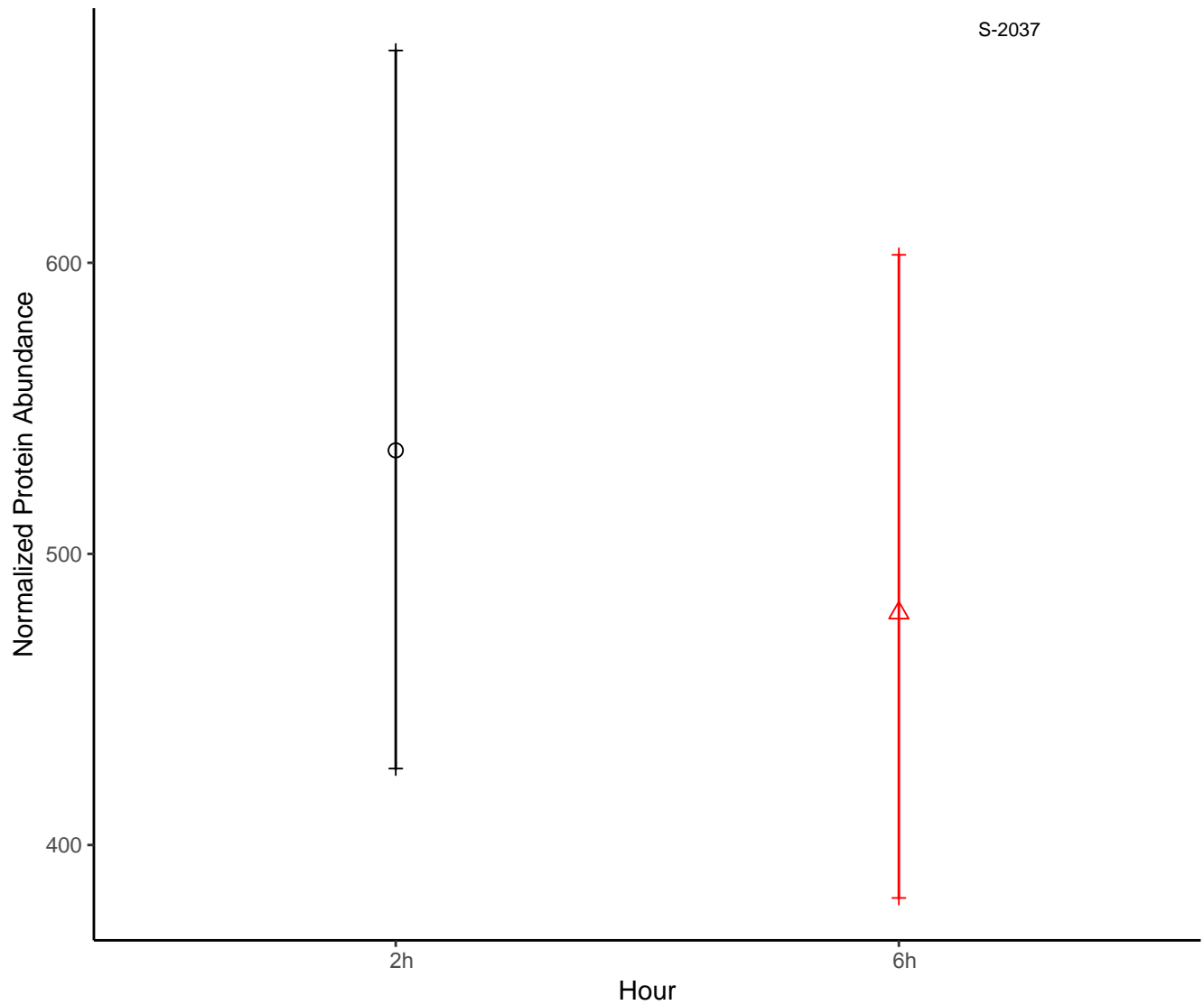


⊕ 2h

△ 6h

# AROE\_STAAM

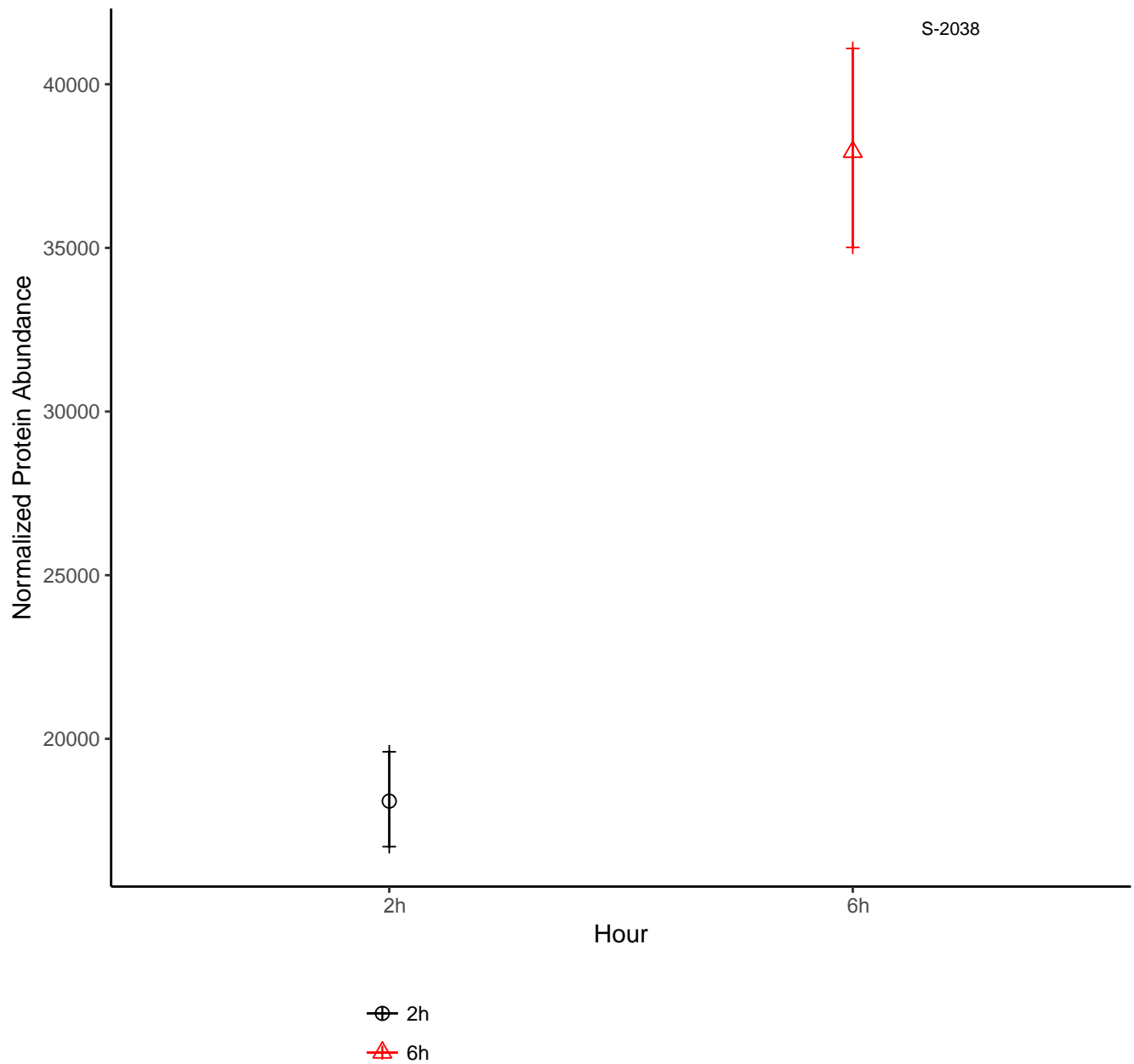
S-2037



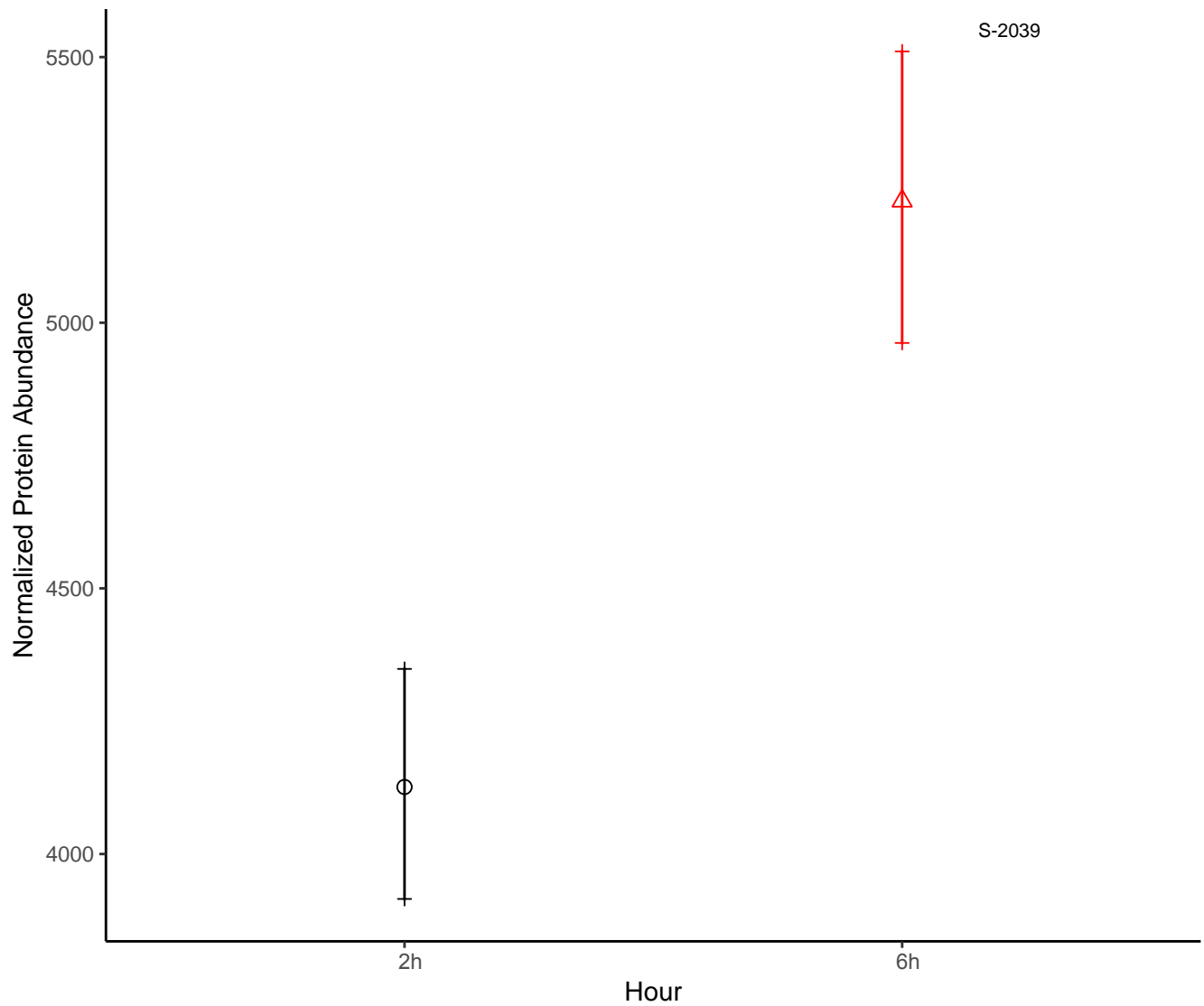
⊕ 2h

△ 6h

# ASP23\_STAAM



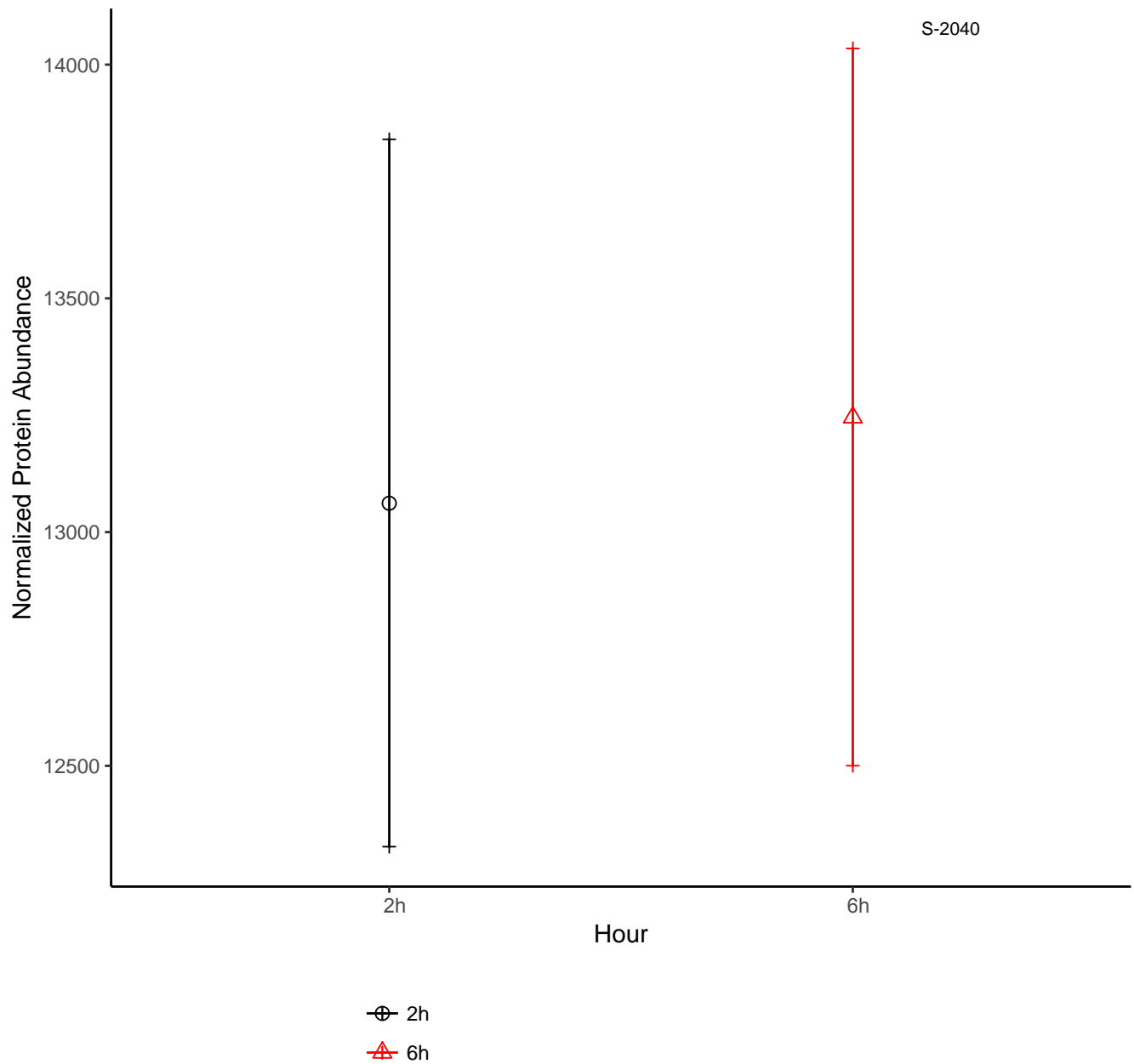
# ATL\_STAAM



⊕ 2h

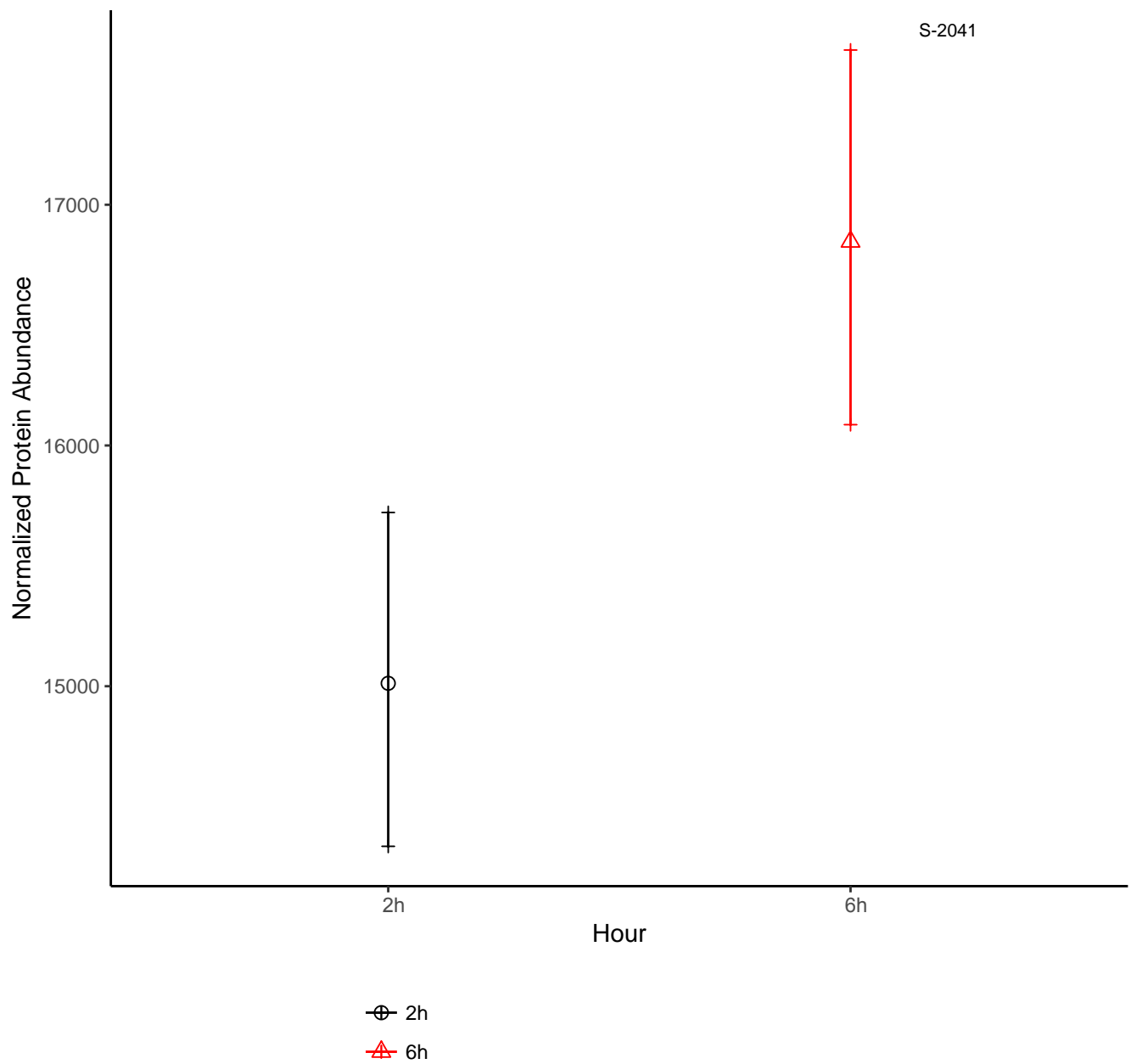
△ 6h

# ATPA\_STAAM

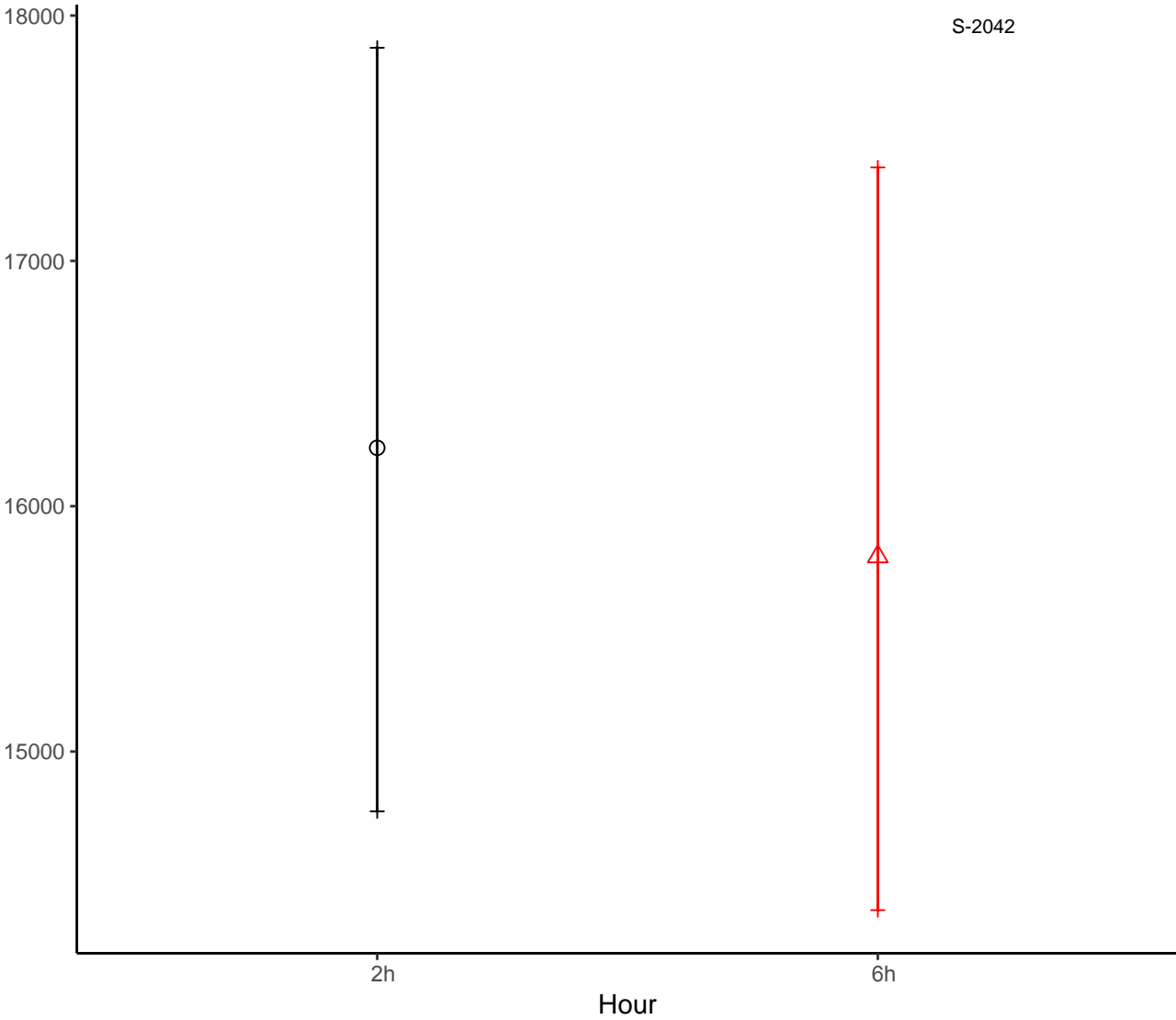




# ATPB\_STAAM



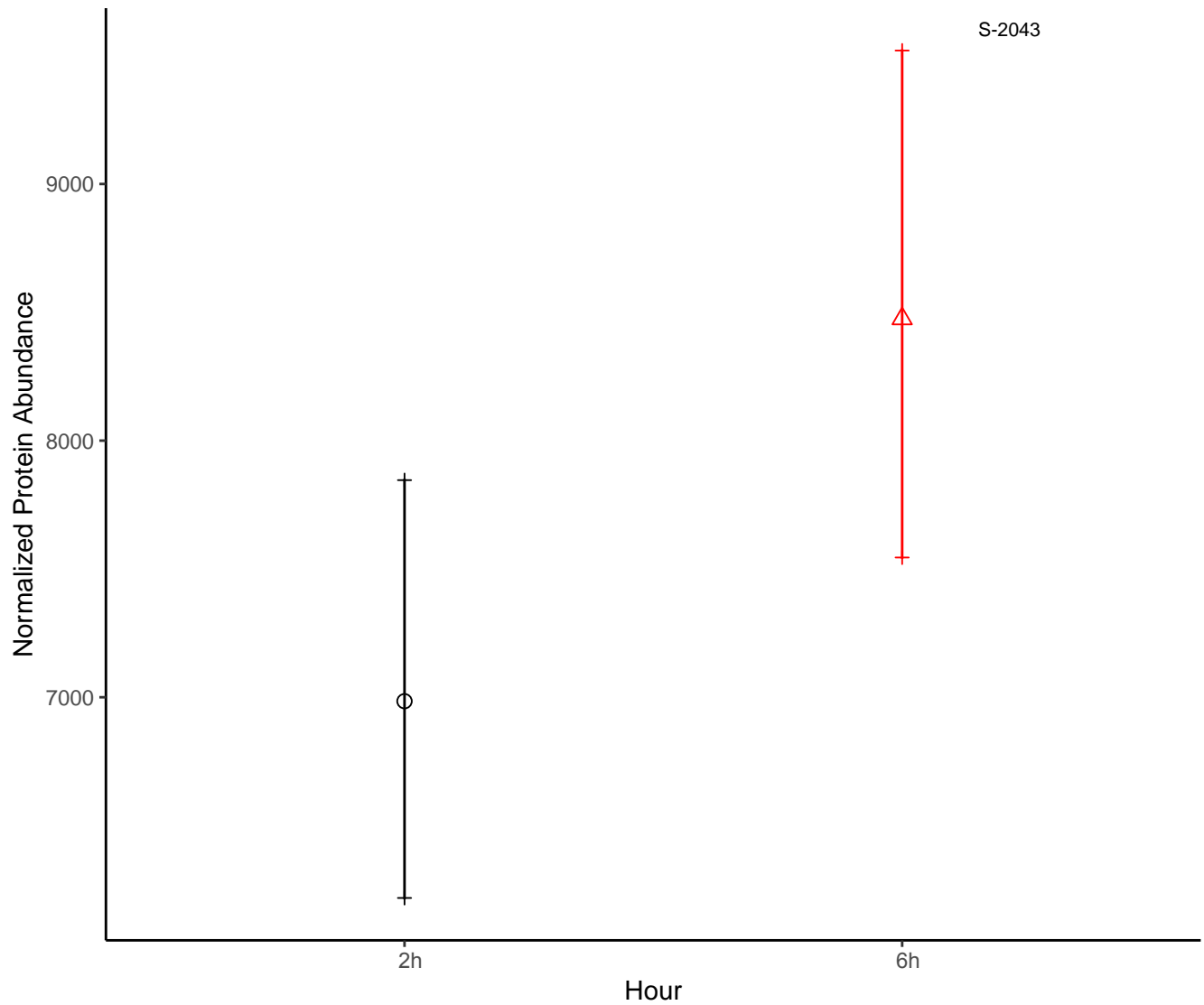
# ATPD\_STAAM



⊕ 2h

△ 6h

# ATPE\_STAAM

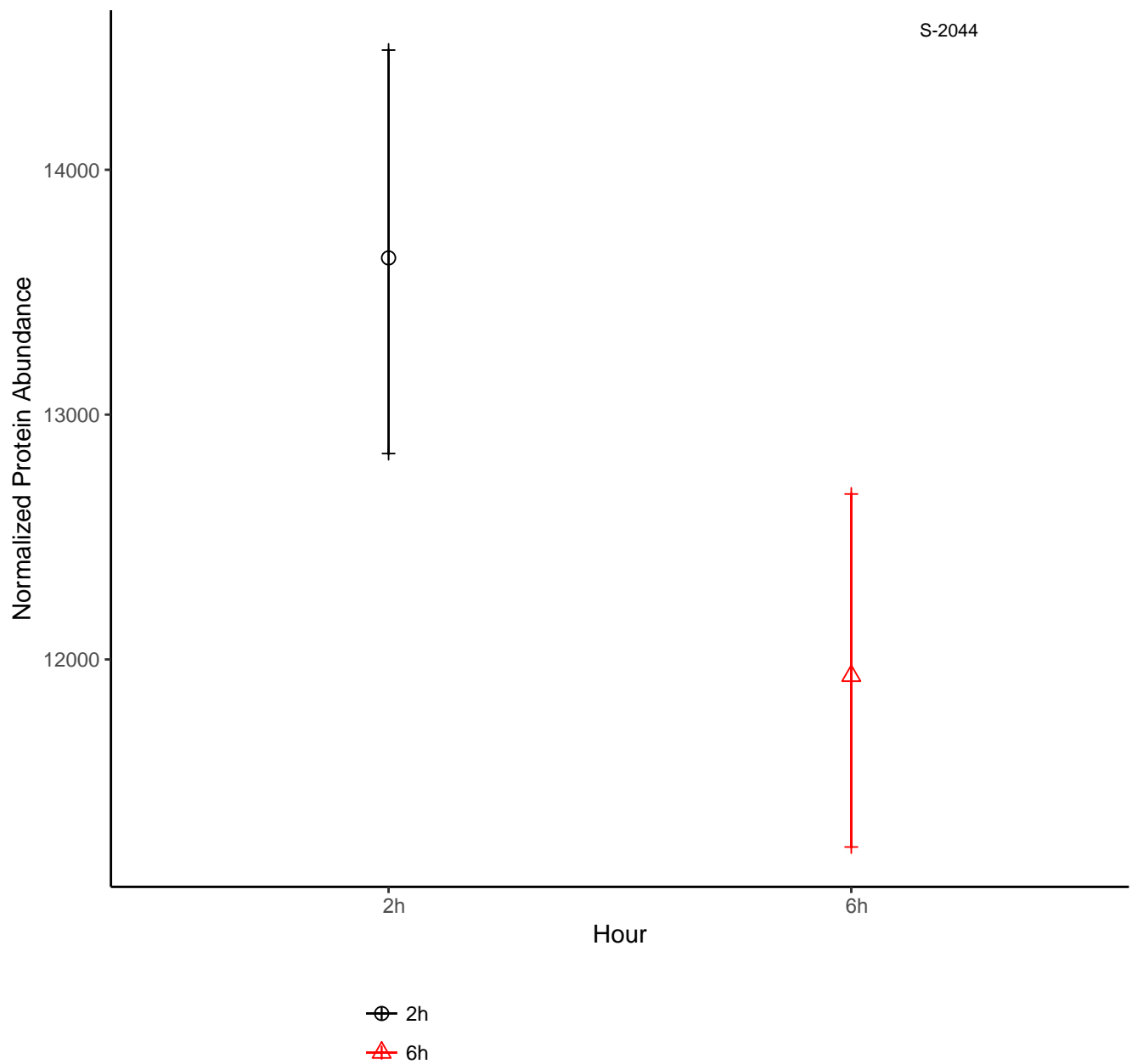


⊕ 2h

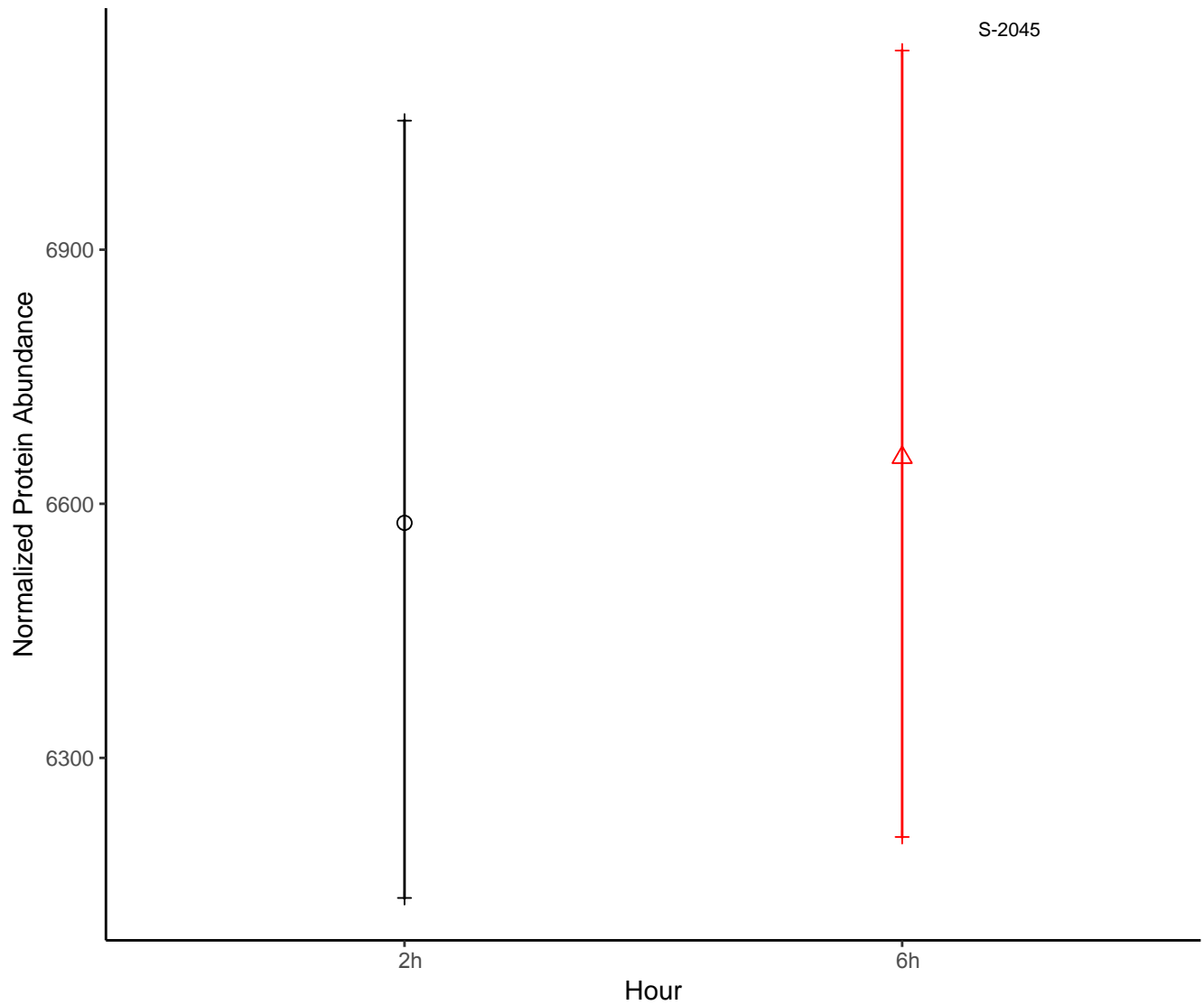
△ 6h

# ATPF\_STAAM

S-2044



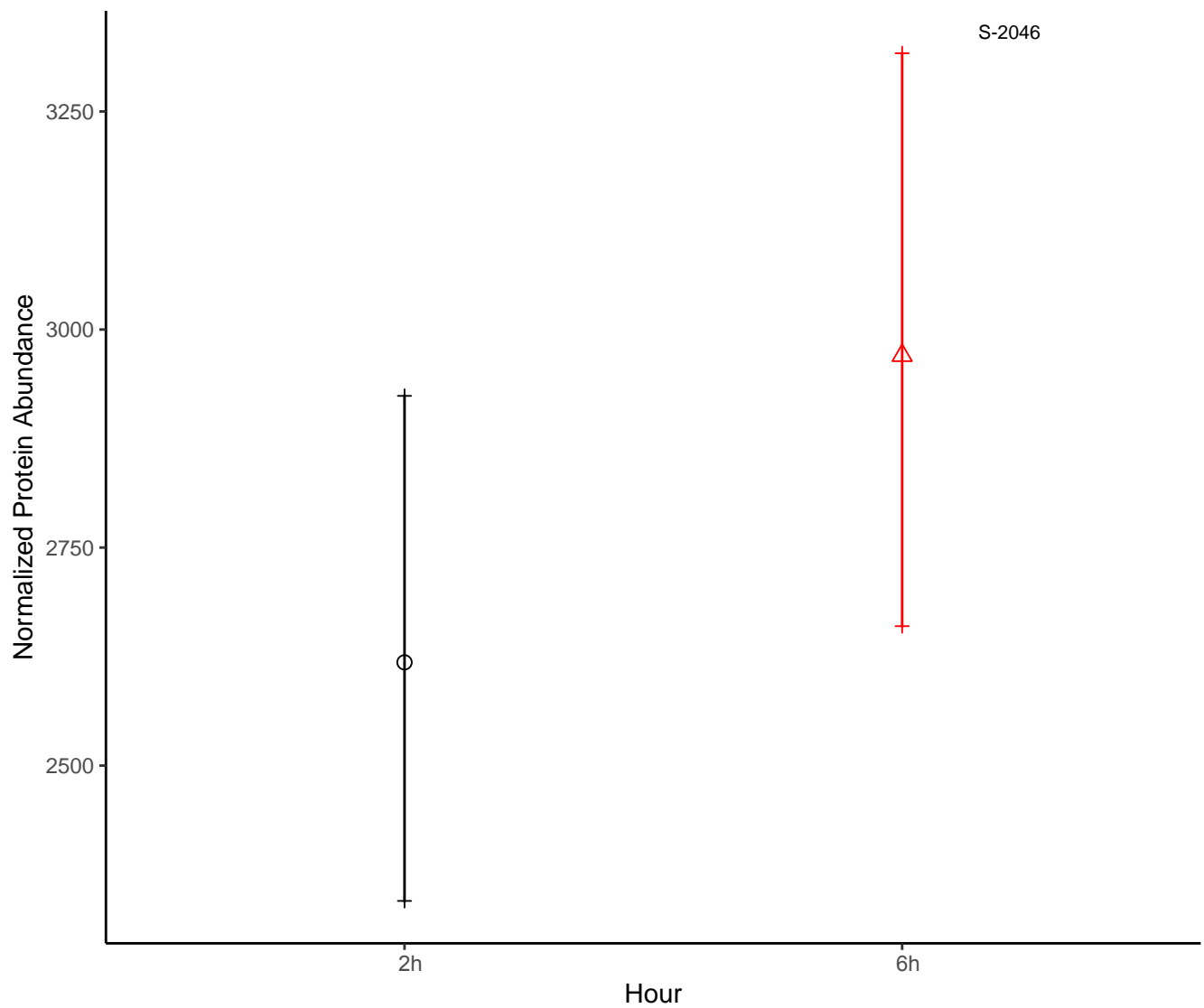
# ATPG\_STAAM



⊕ 2h

△ 6h

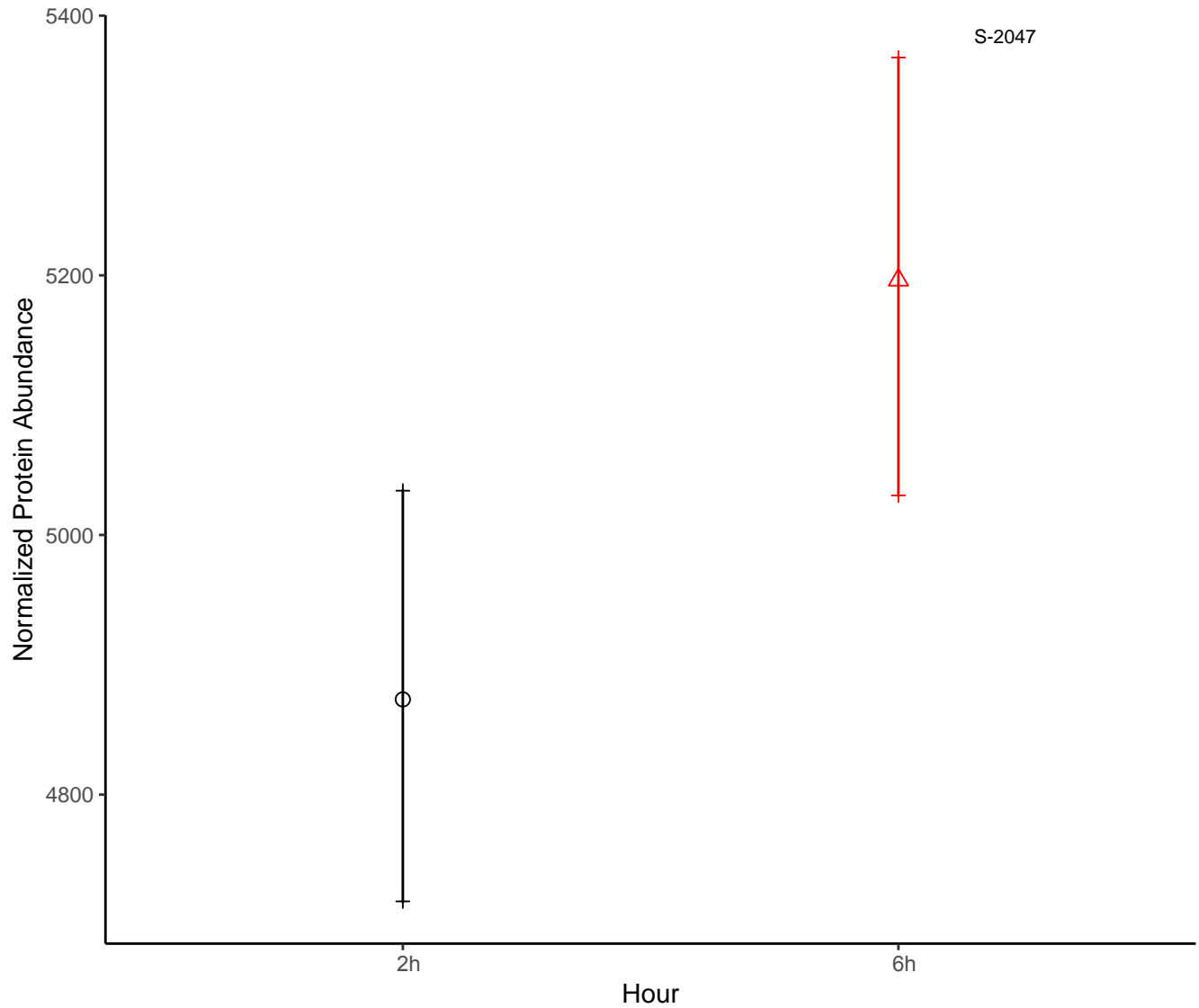
# AZO1\_STAAM



⊕ 2h

△ 6h

# AZOR\_STAAM

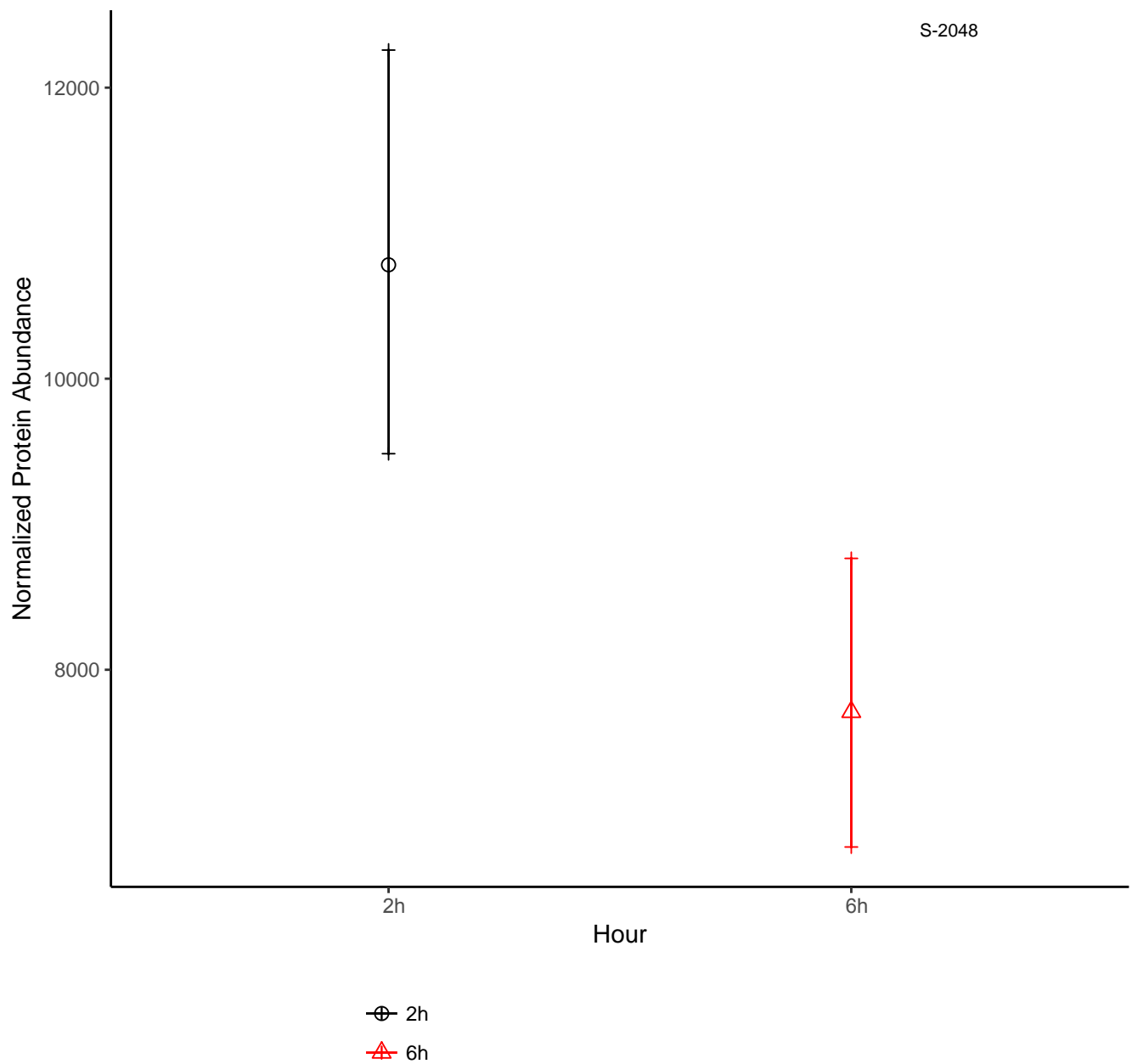


⊕ 2h

△ 6h

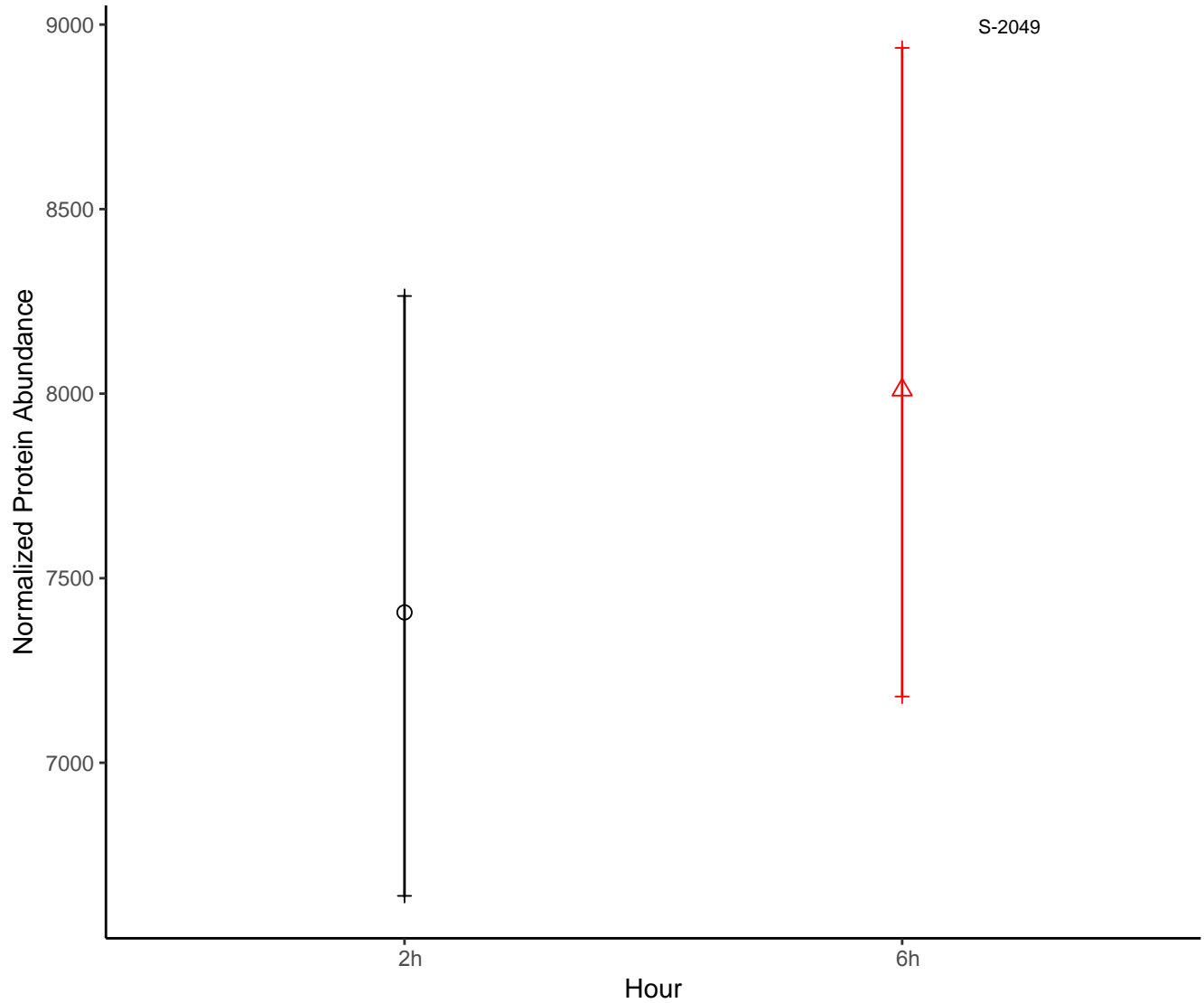
# BSAA\_STAAM

S-2048





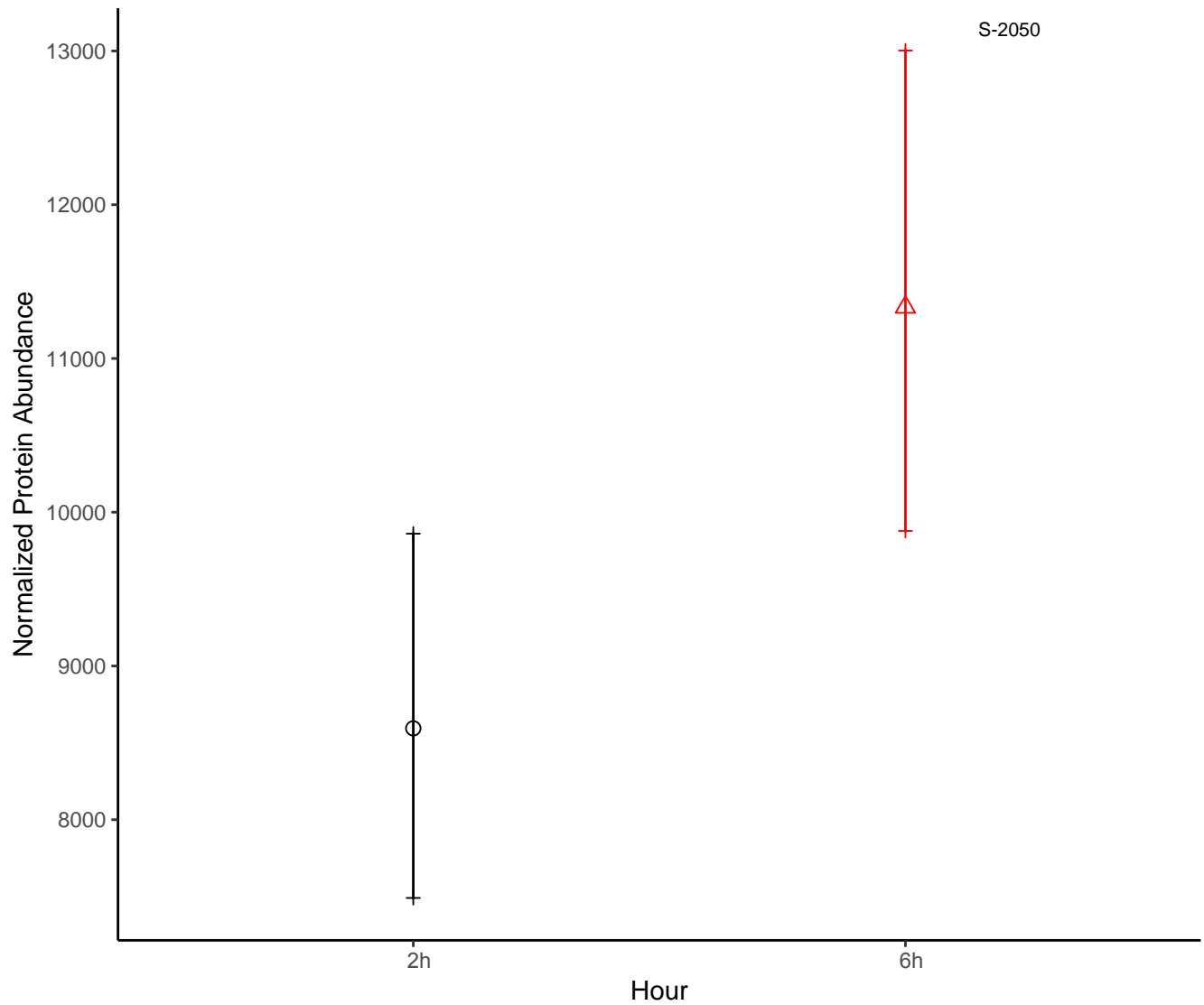
# BUTA\_STAAM



⊕ 2h

△ 6h

# CARA\_STAAM

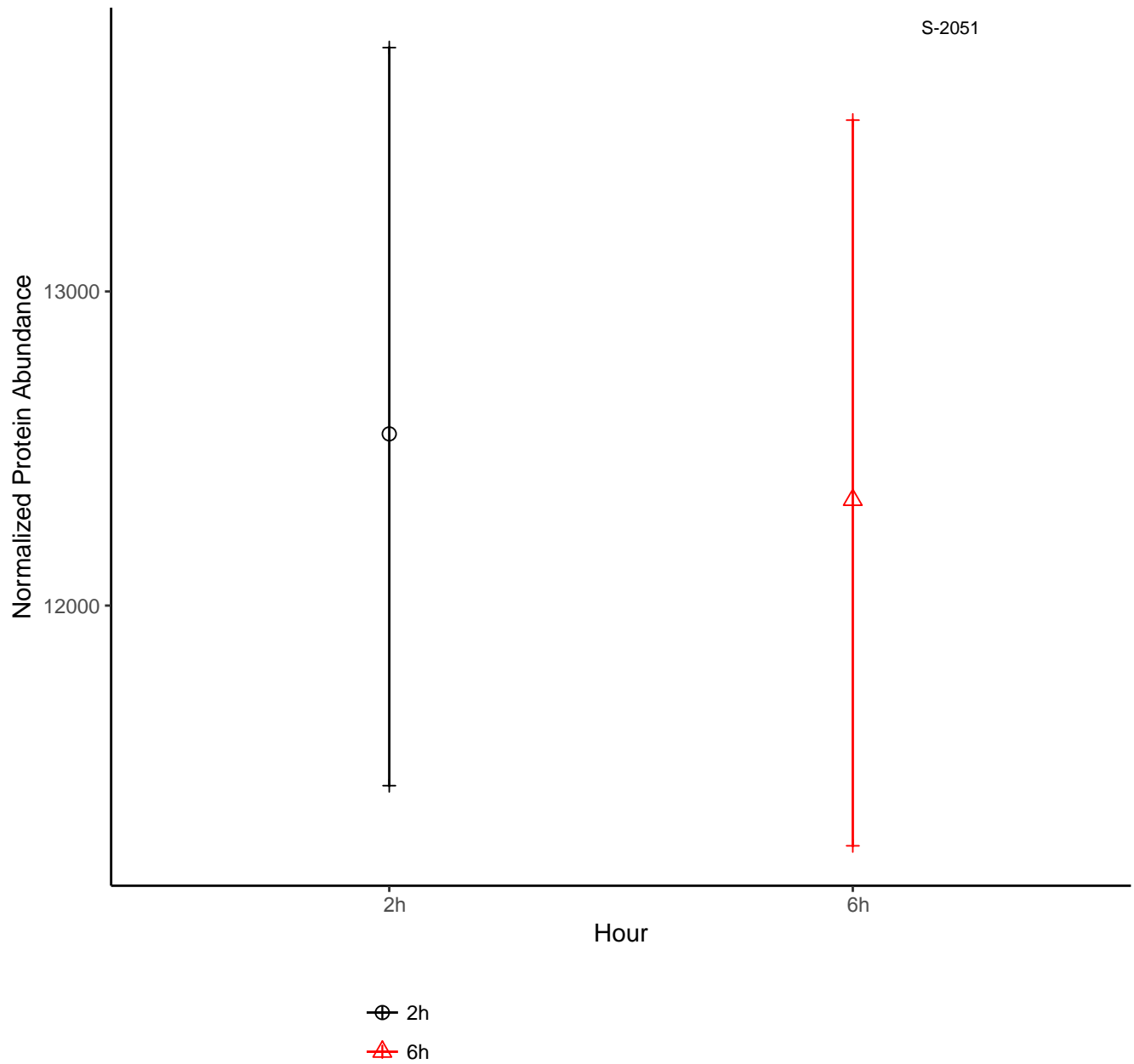


⊕ 2h

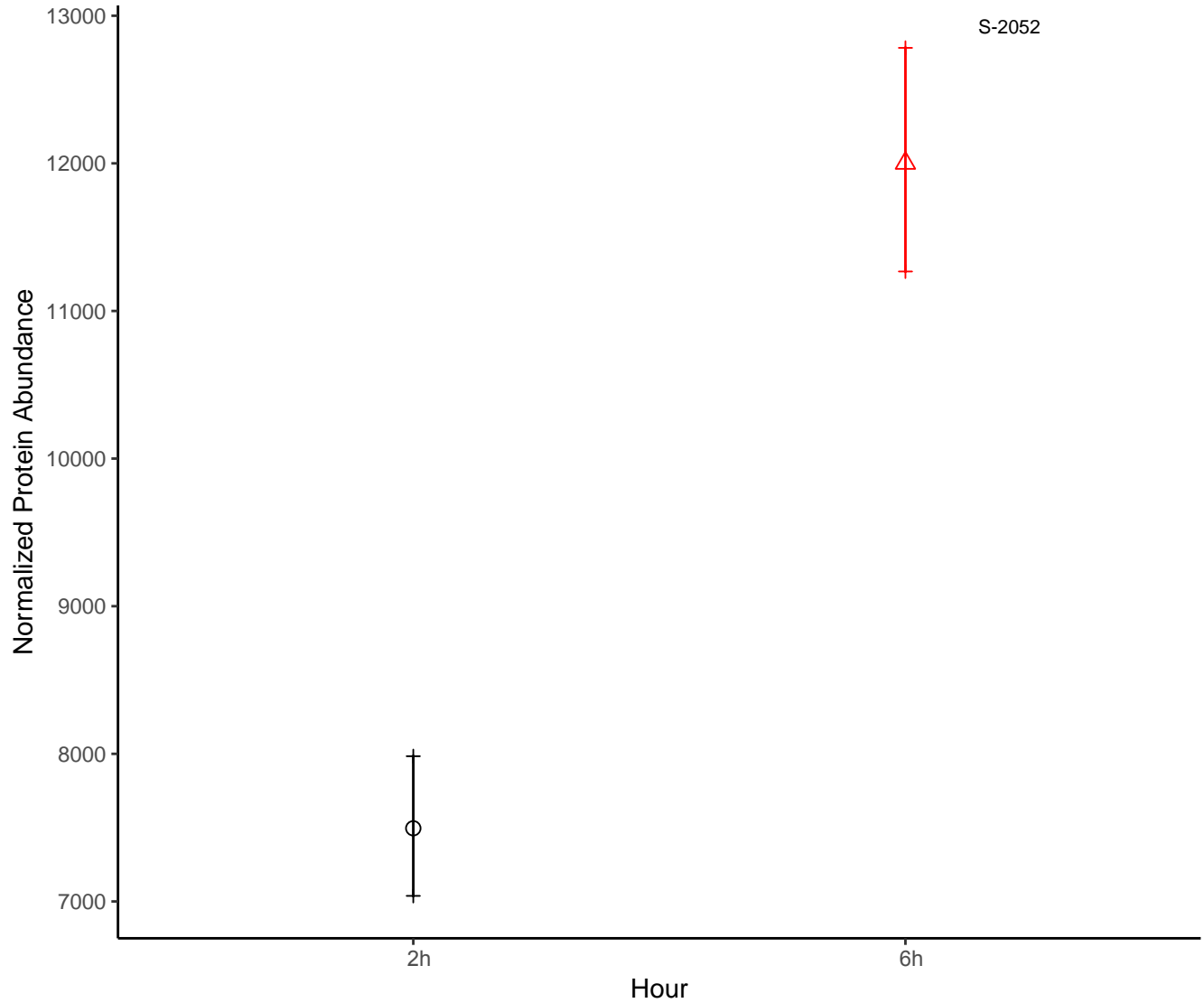
△ 6h

# CARB\_STAAM

S-2051



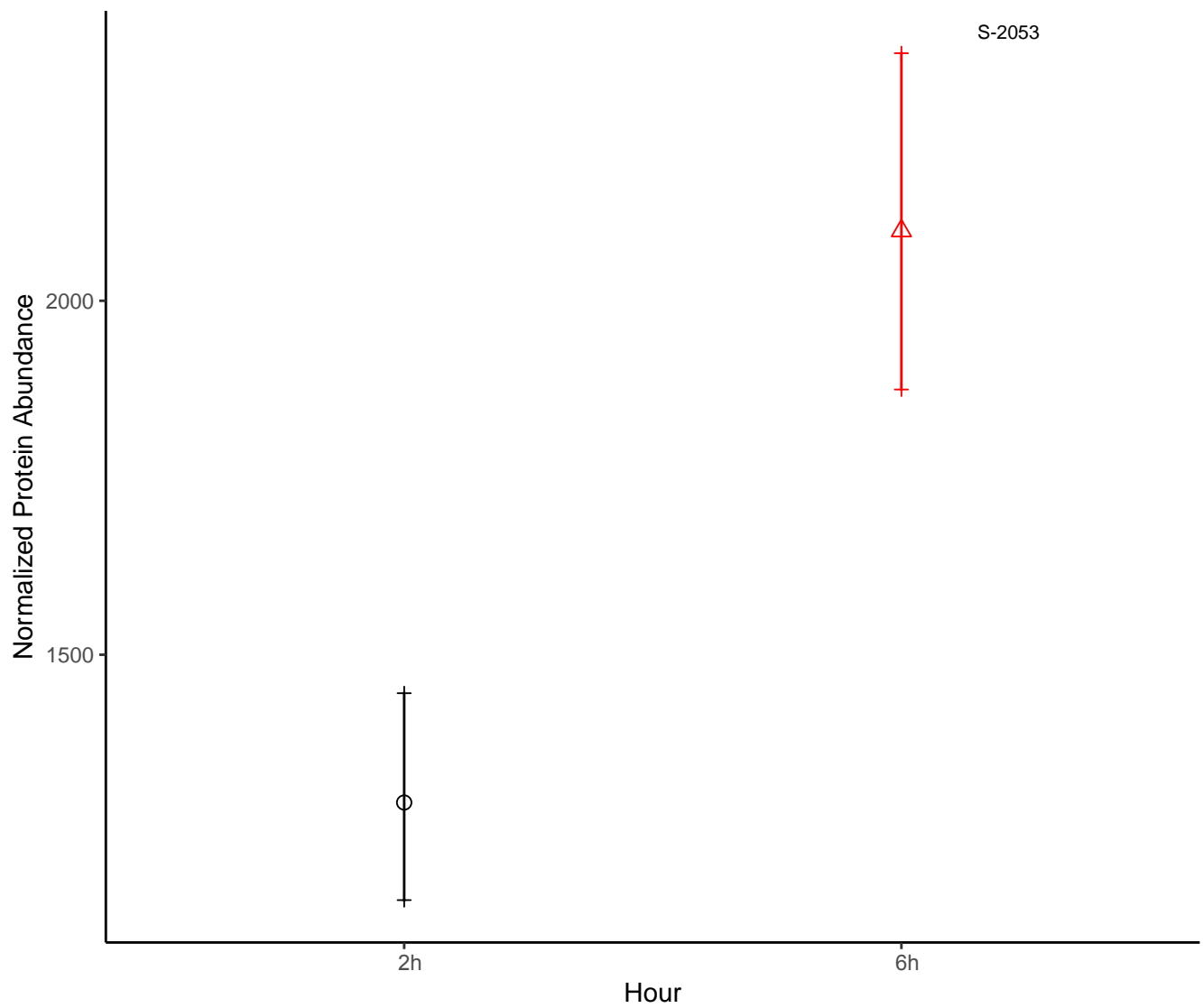
# CATA\_STAAM



⊕ 2h

△ 6h

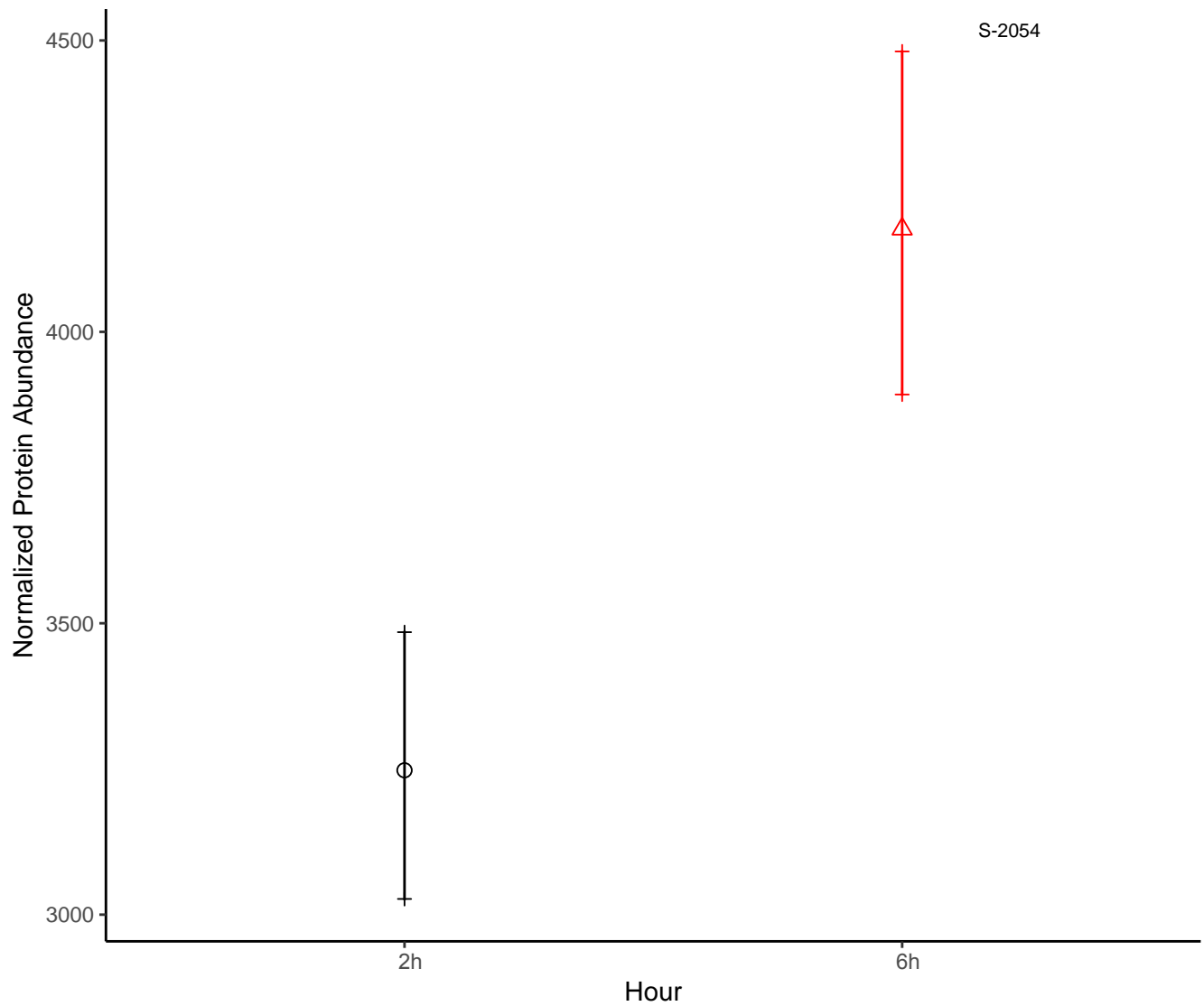
# CCPA\_STAAM



⊕ 2h

△ 6h

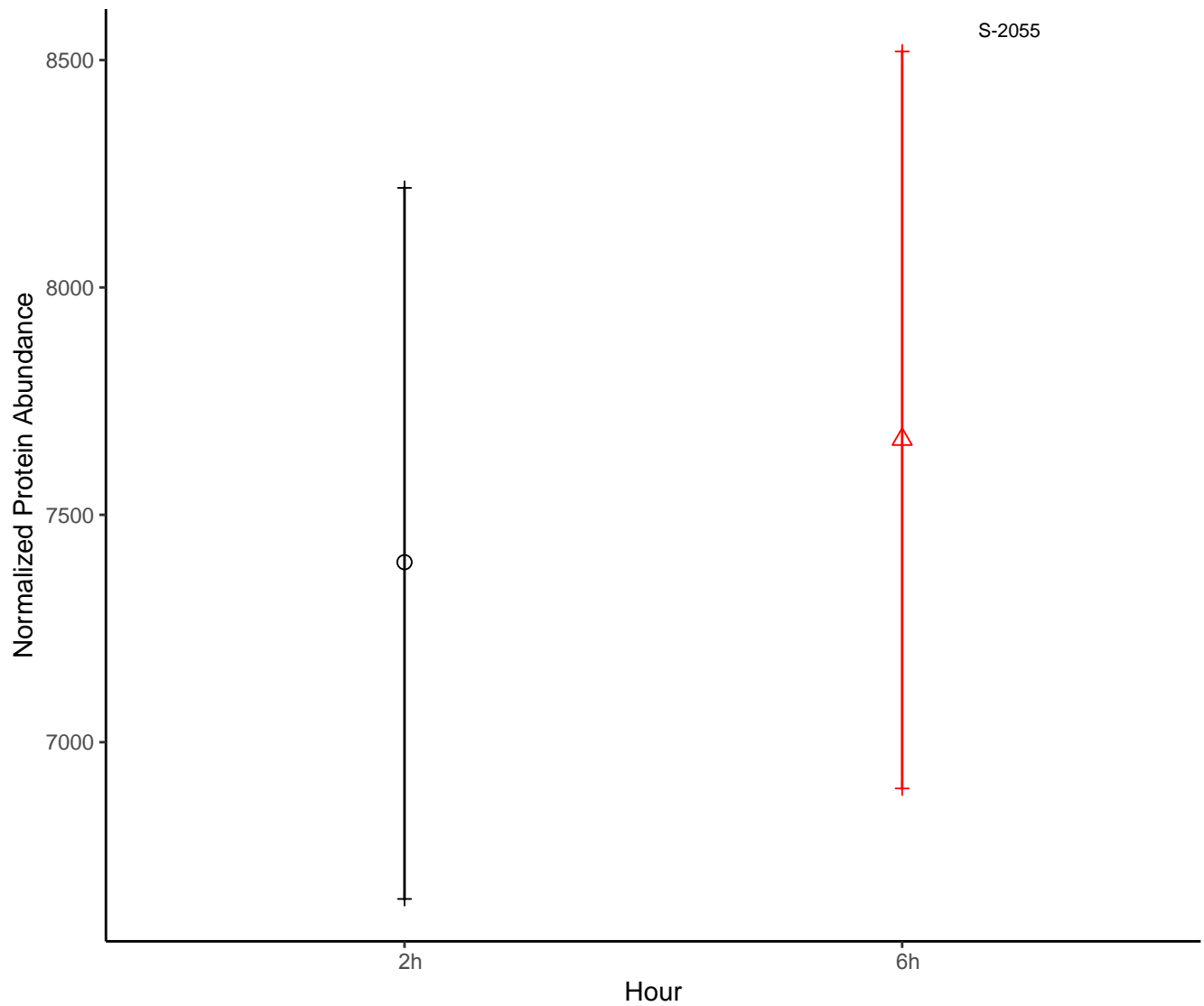
# CDR\_STAAM



⊕ 2h

△ 6h

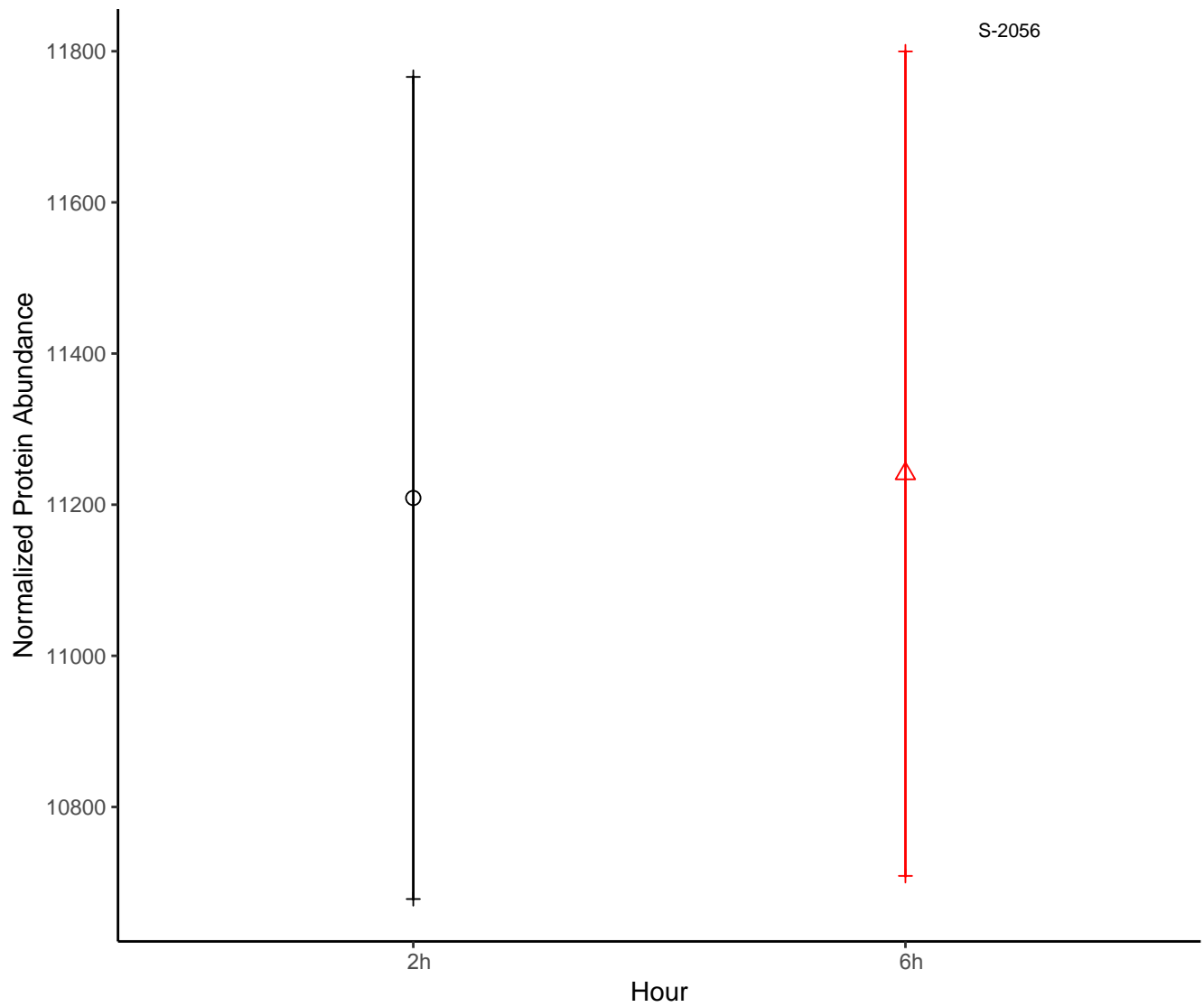
# CH10\_STAAM



⊕ 2h

△ 6h

# CH60\_STAAM



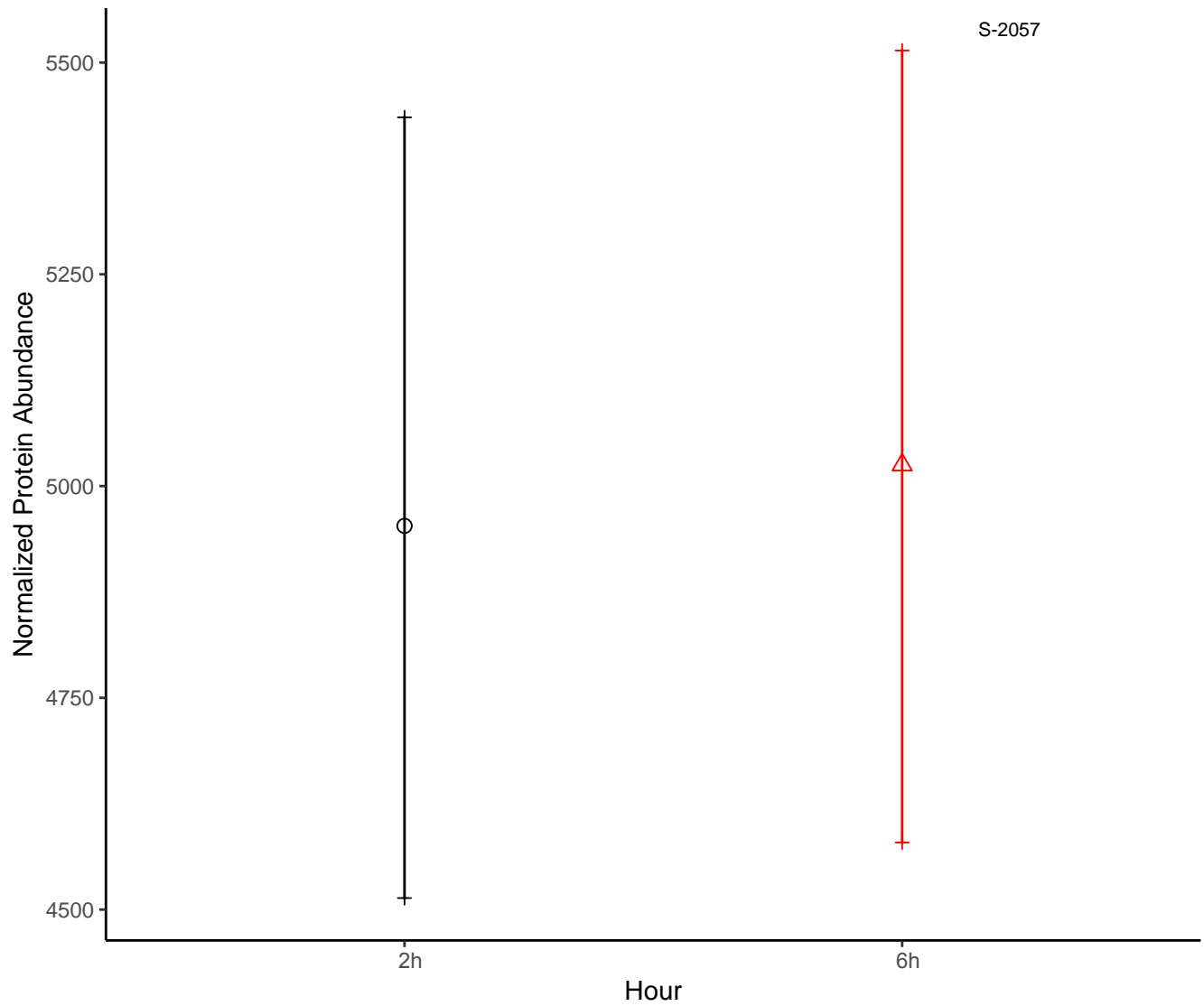
S-2056

⊕ 2h

△ 6h



# CLPB\_STAAM

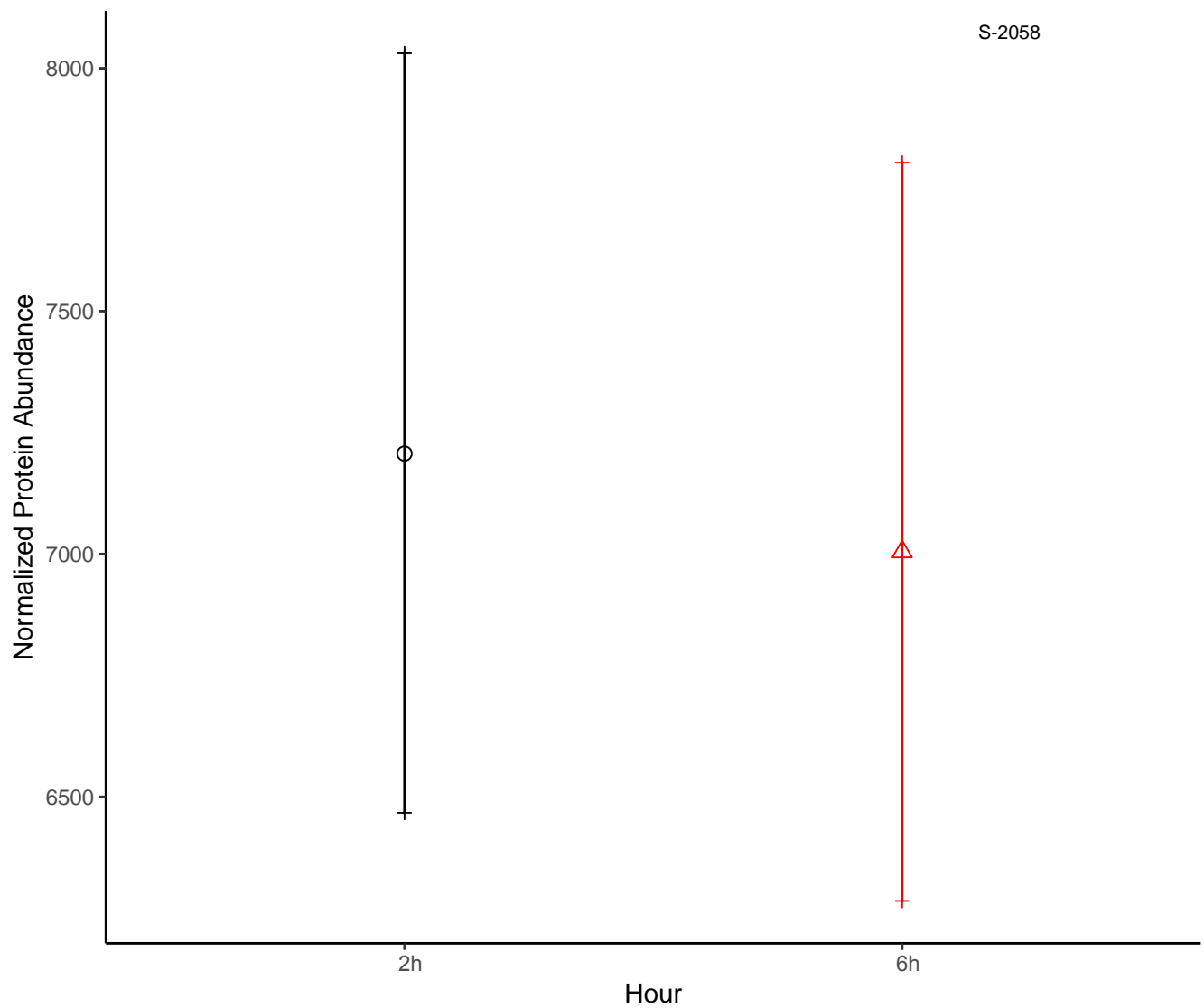


⊕ 2h

△ 6h

# CLPC\_STAAM

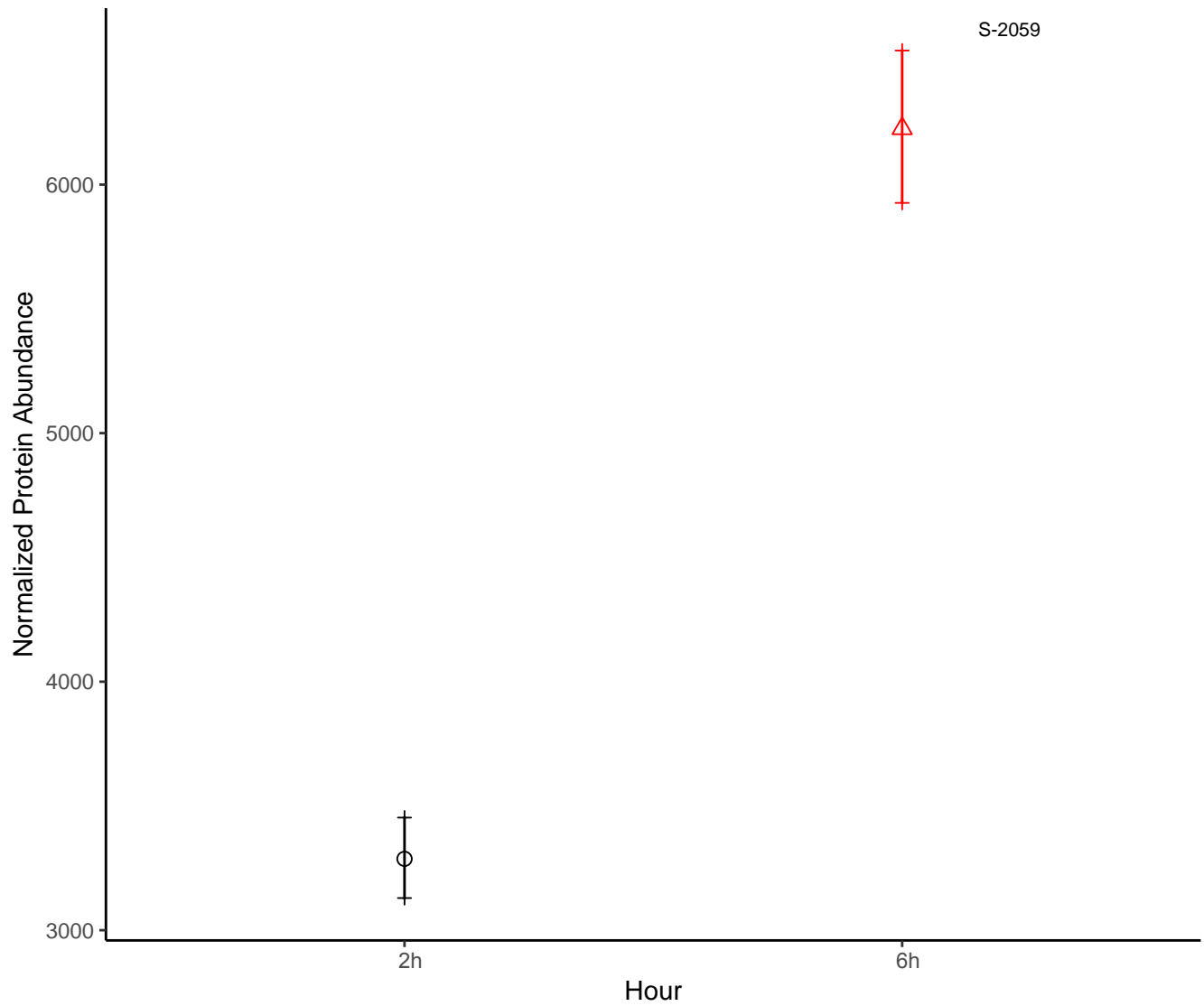
S-2058



⊕ 2h

△ 6h

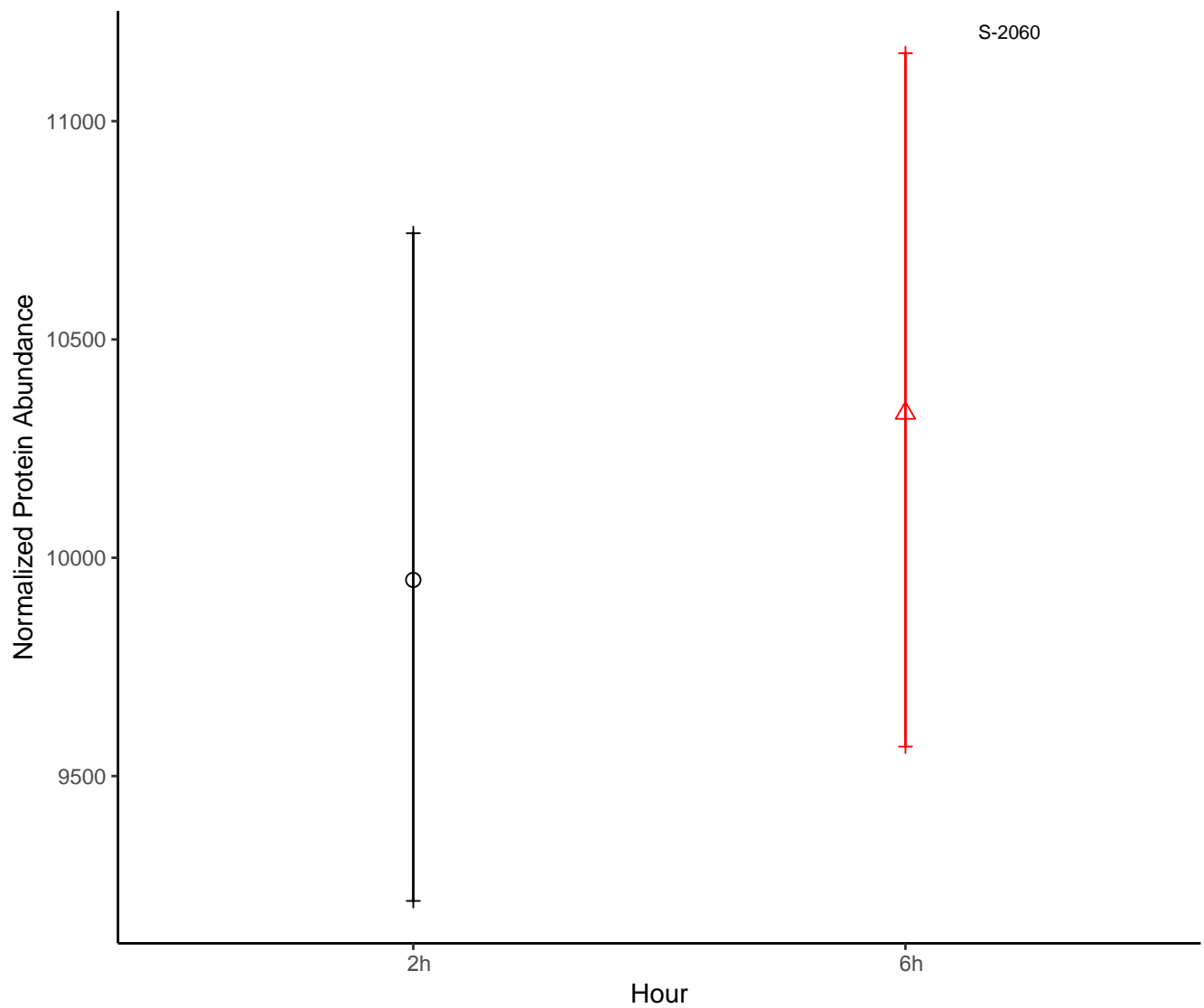
# CLPL\_STAAM



⊕ 2h

⊕ 6h

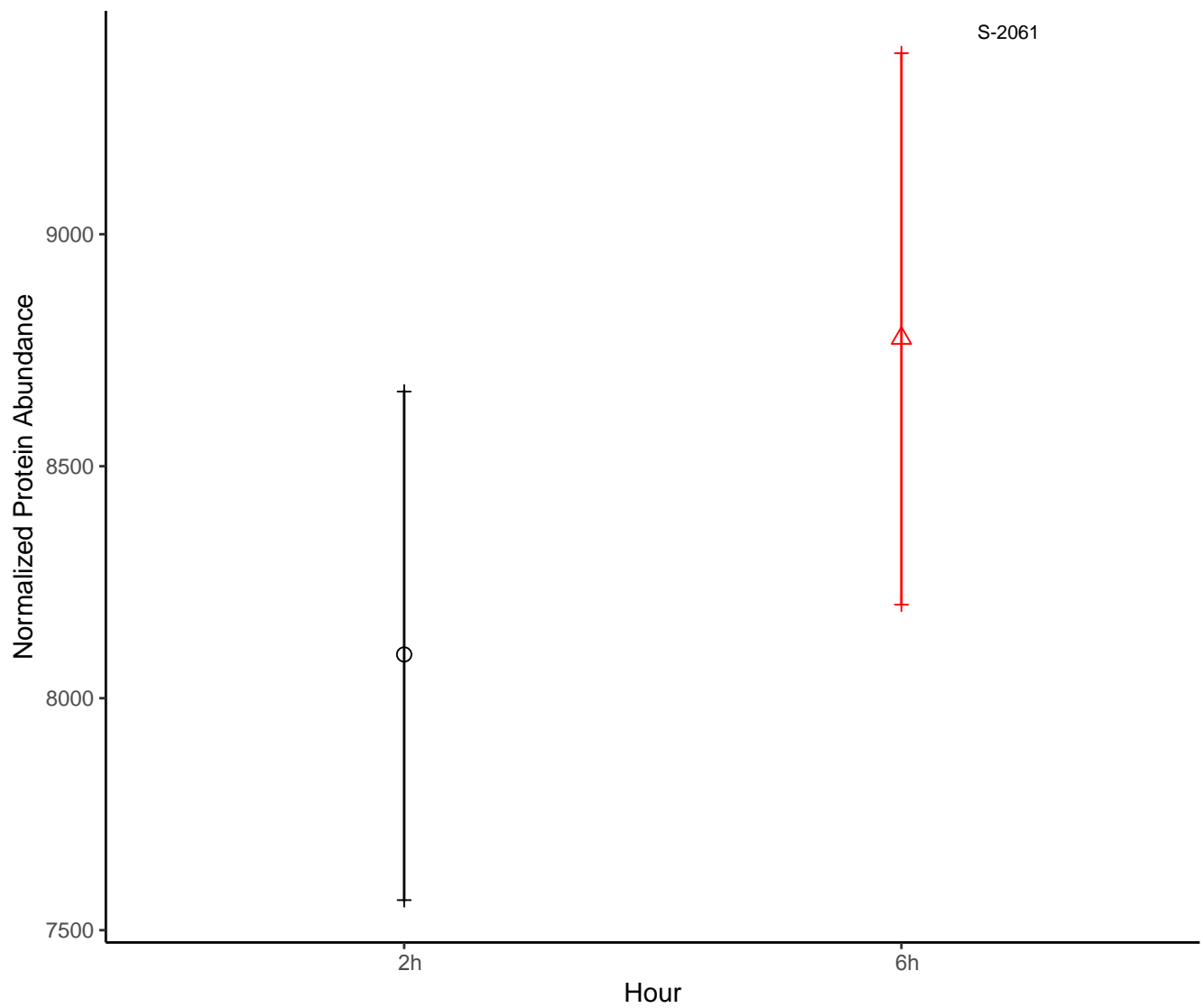
# CLPP\_STAAM



⊕ 2h

△ 6h

# CLPX\_STAAM

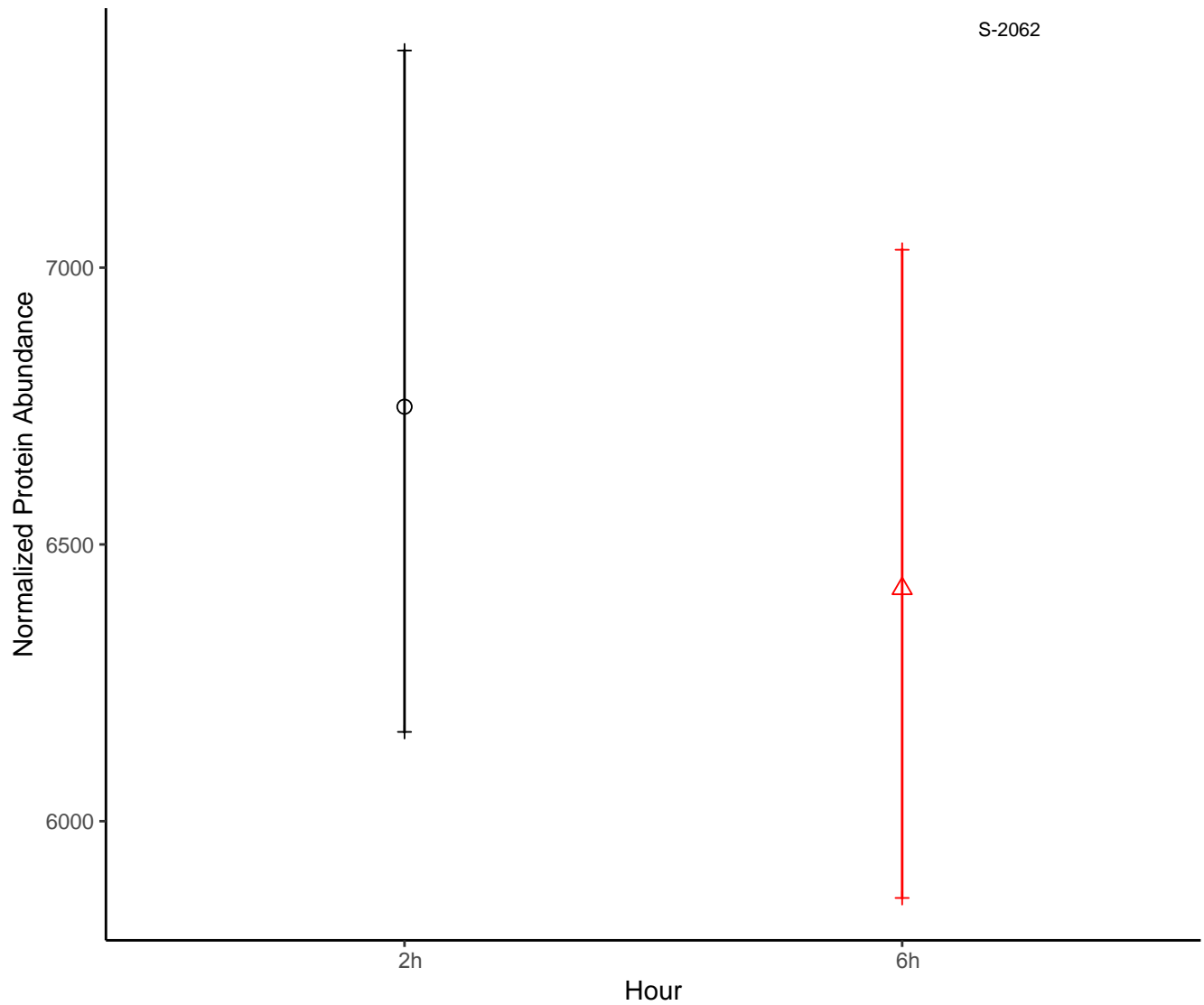


⊕ 2h

△ 6h

# CODY\_STAAM

S-2062

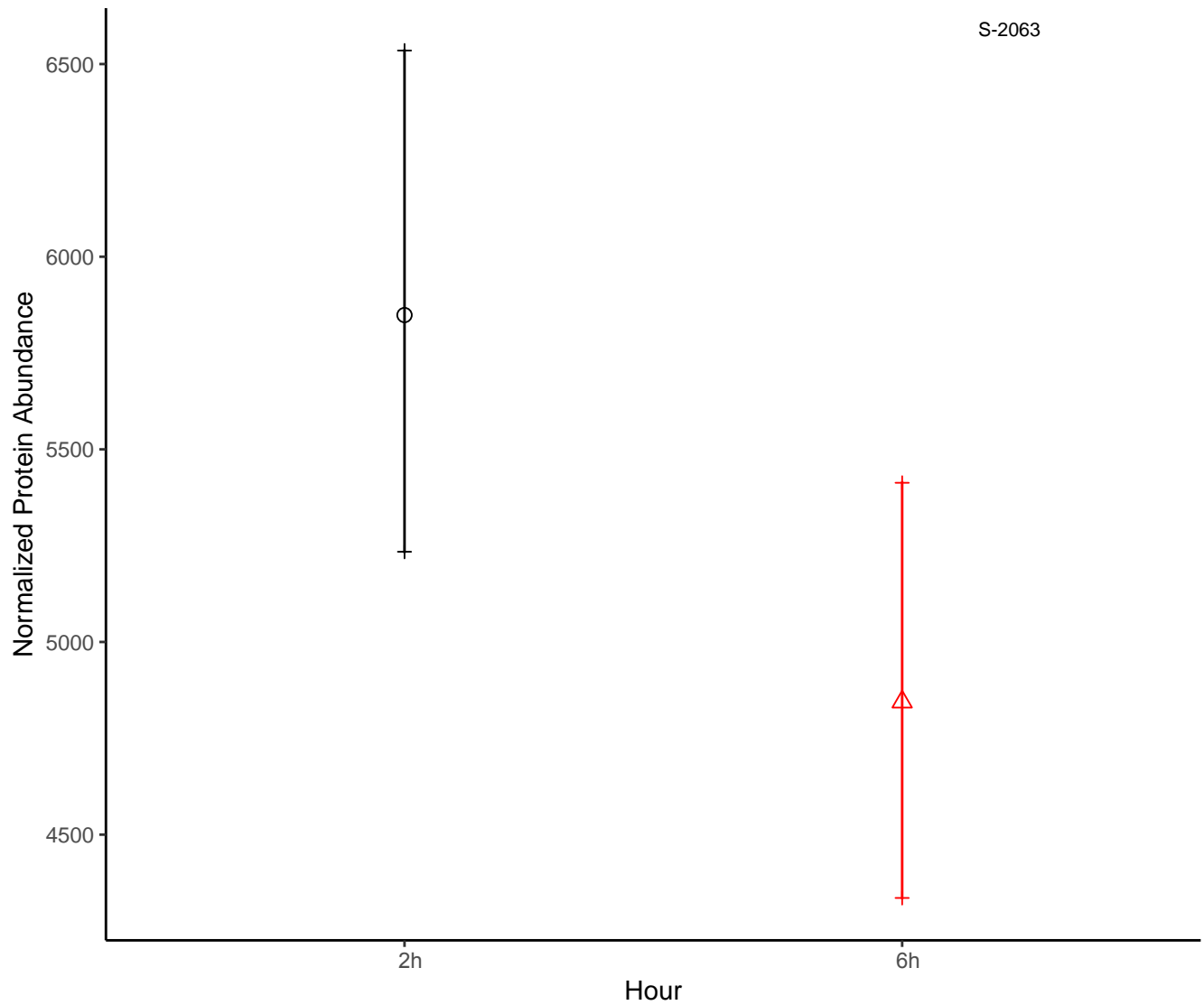


⊕ 2h

△ 6h

# COPZ\_STAAM

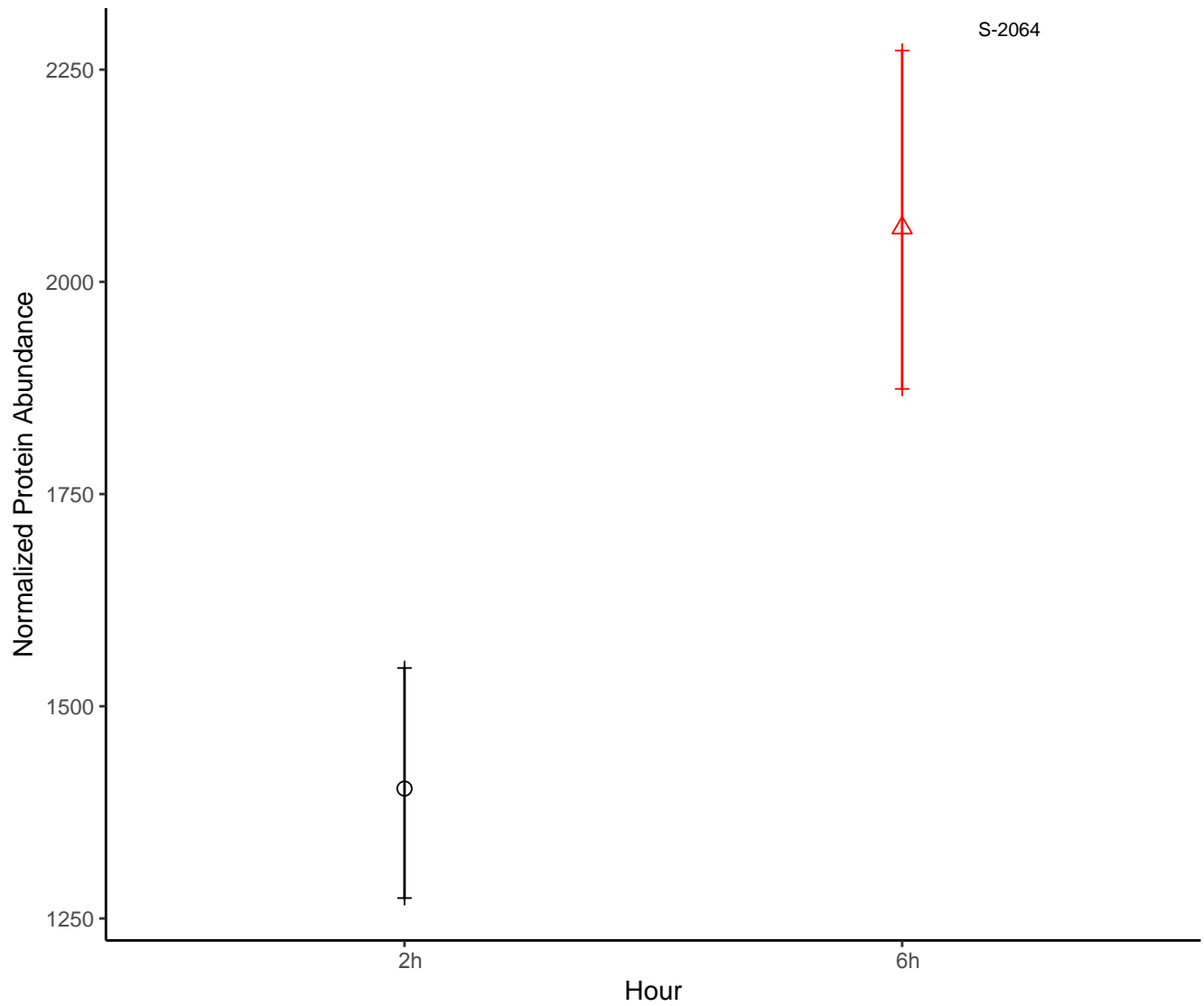
S-2063



⊕ 2h

△ 6h

# CRTN\_STAAM

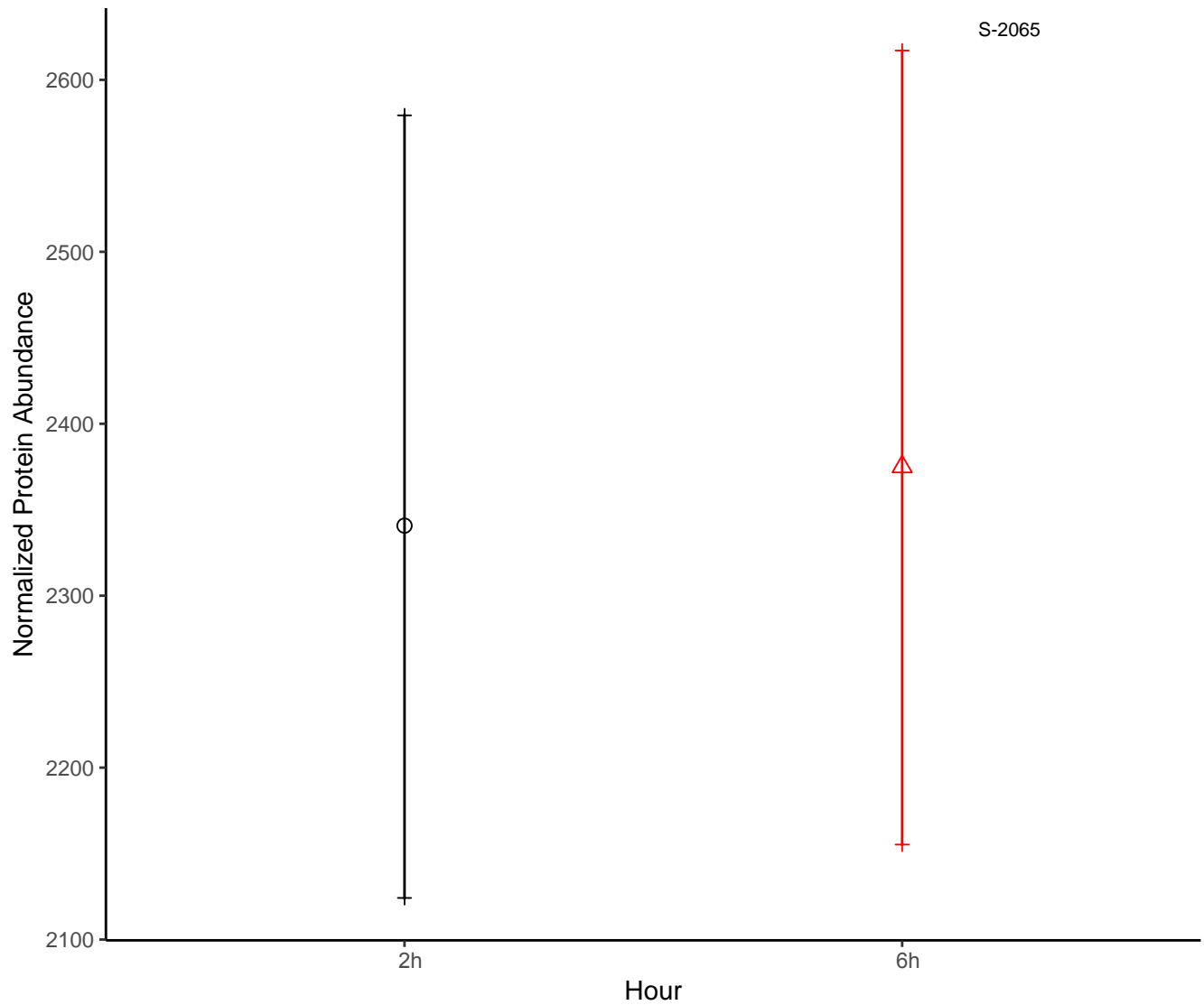


⊕ 2h

△ 6h



# CSD\_STAAM

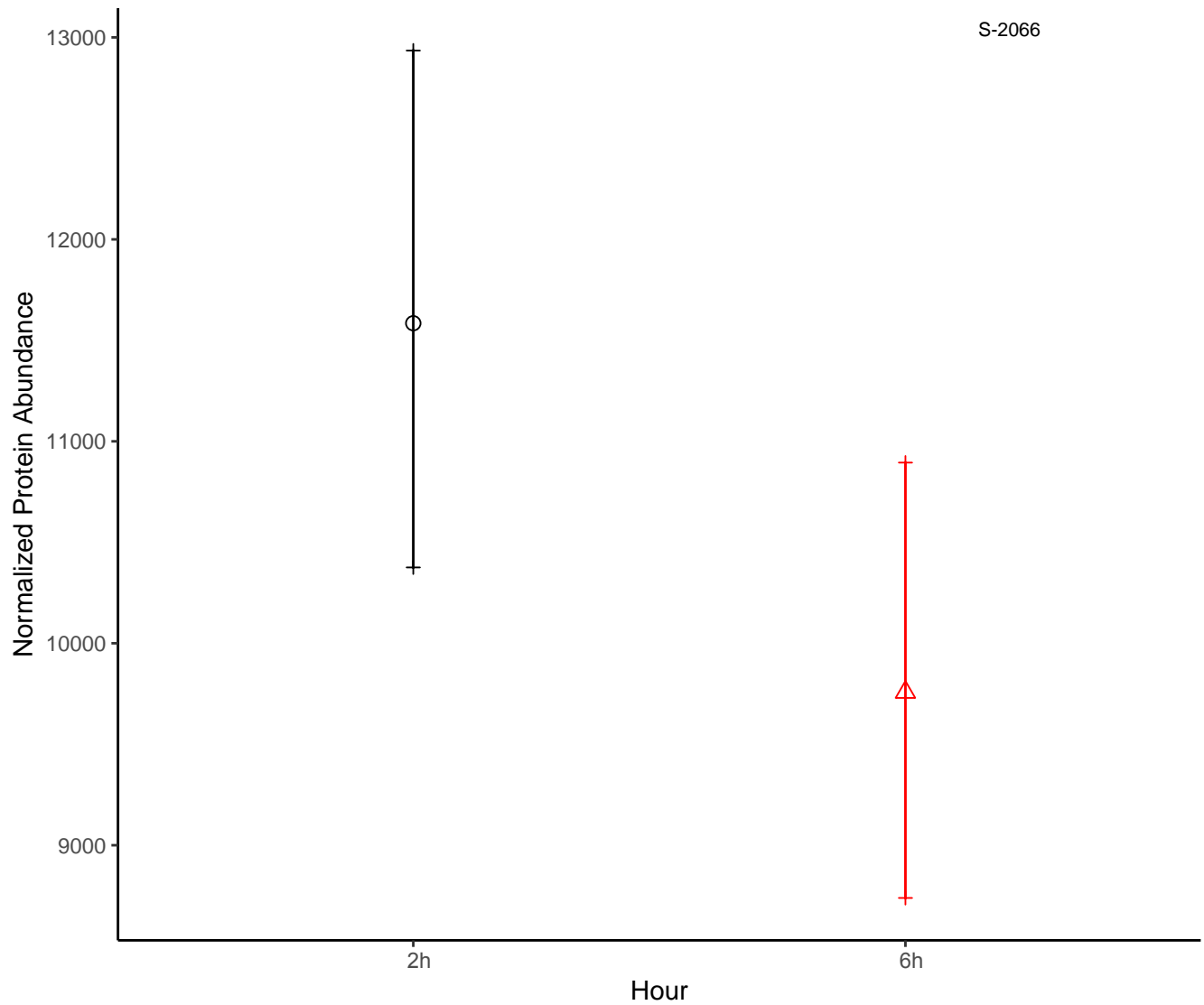


⊕ 2h

△ 6h

# CSHA\_STAAM

S-2066

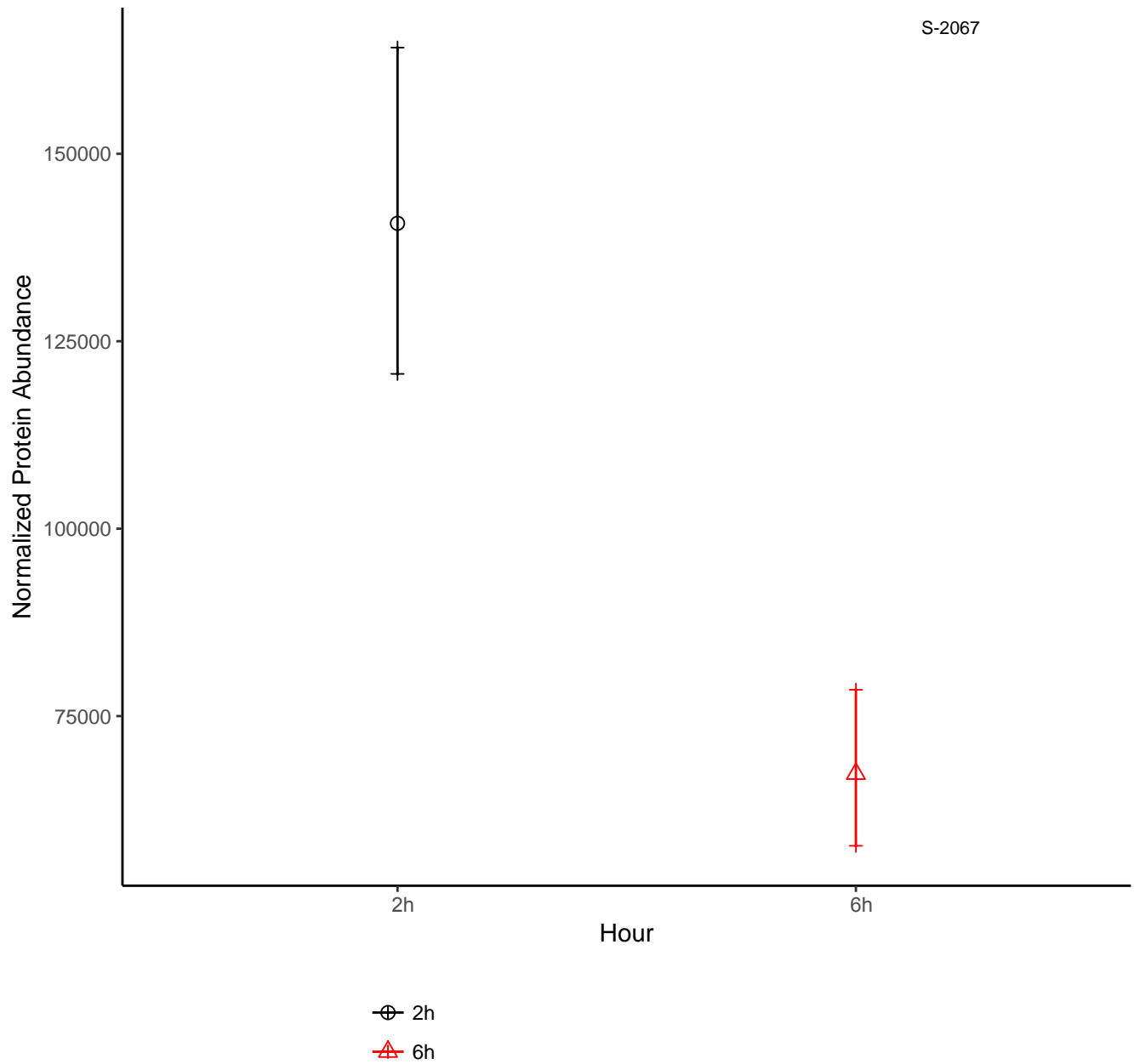


⊕ 2h

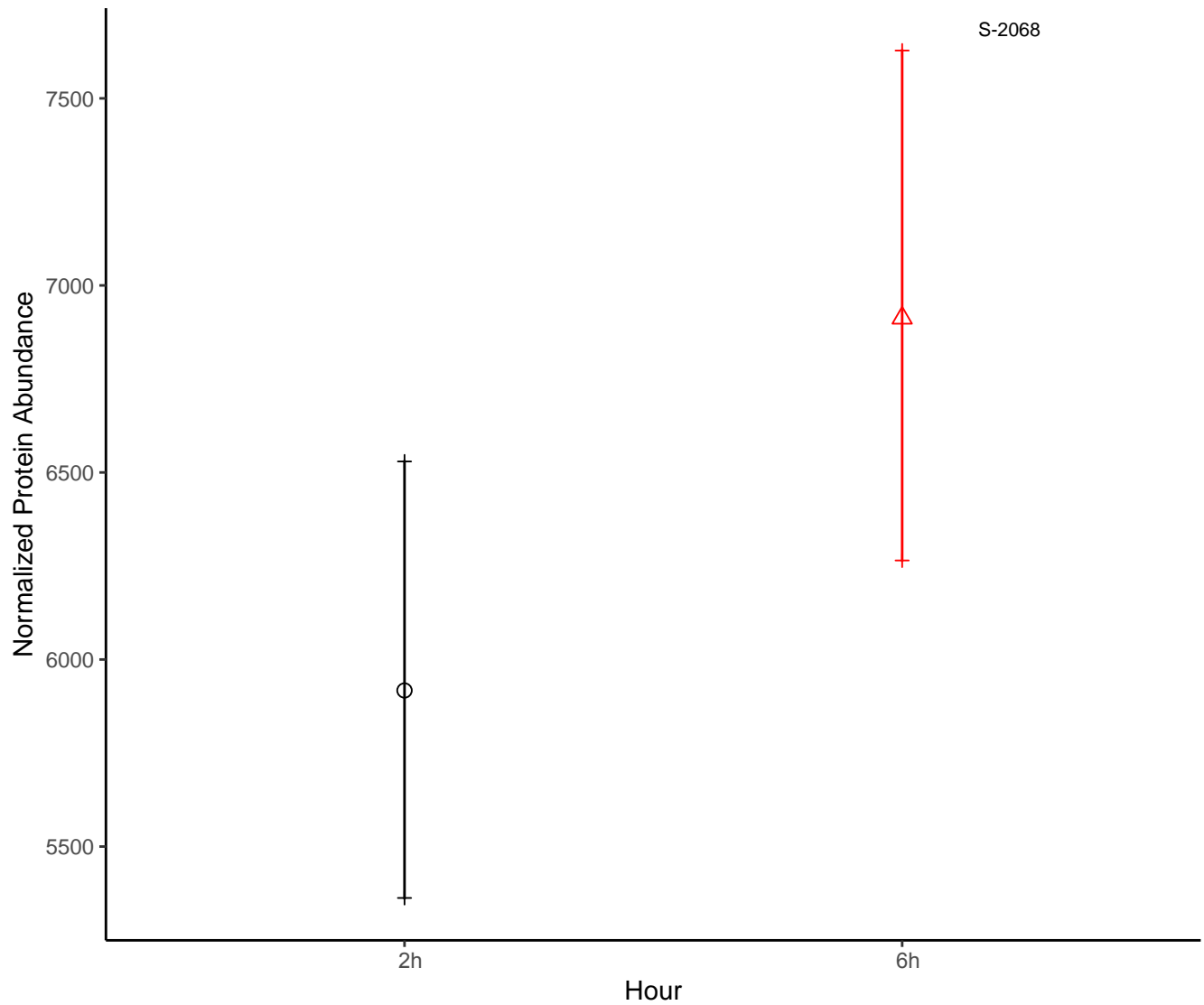
△ 6h

# CSPA\_STAAM

S-2067



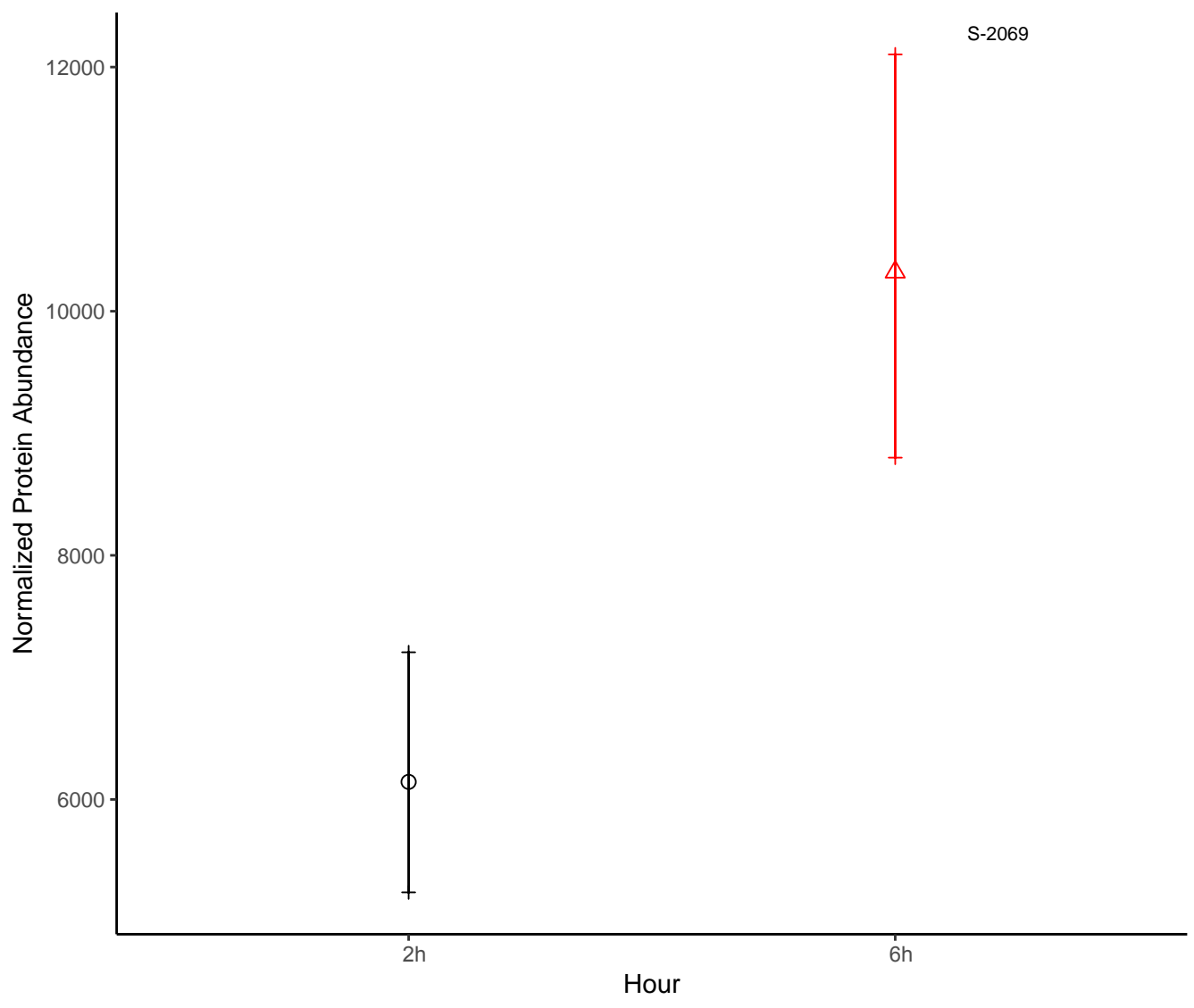
# CTPAL\_STAAM



⊕ 2h

△ 6h

# CVFB\_STAAM



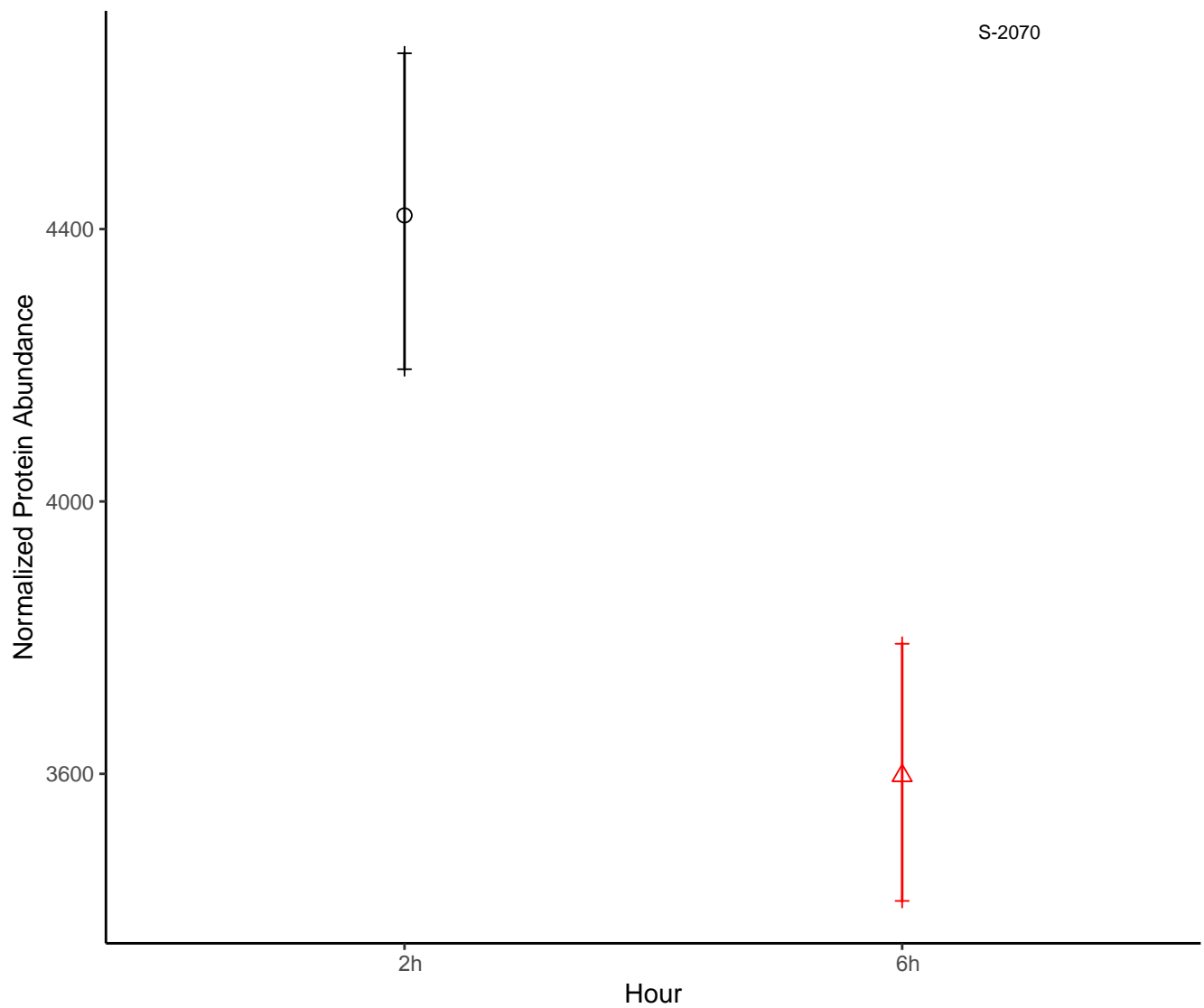
S-2069

⊕ 2h

△ 6h

# CYSE\_STAAM

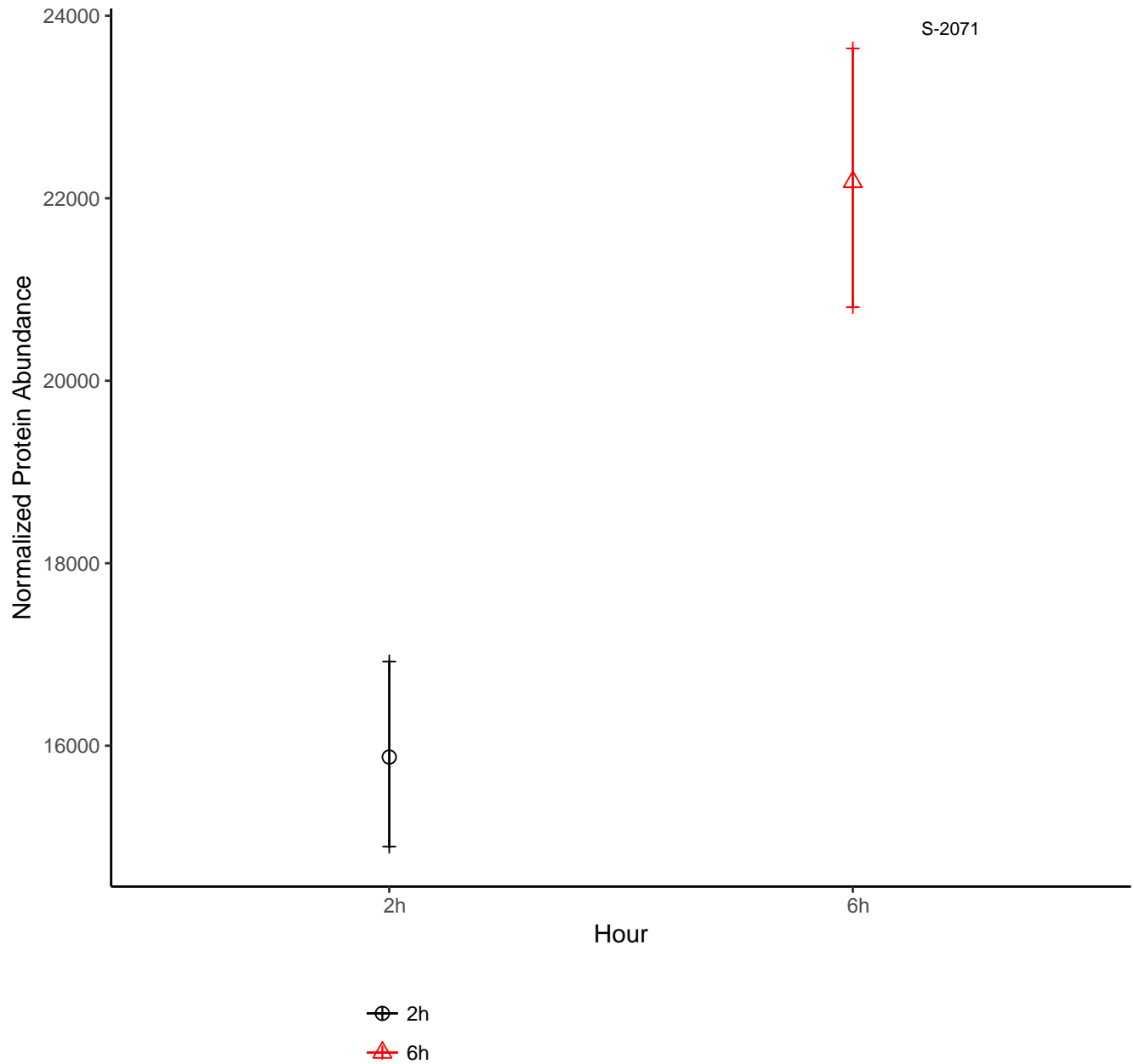
S-2070



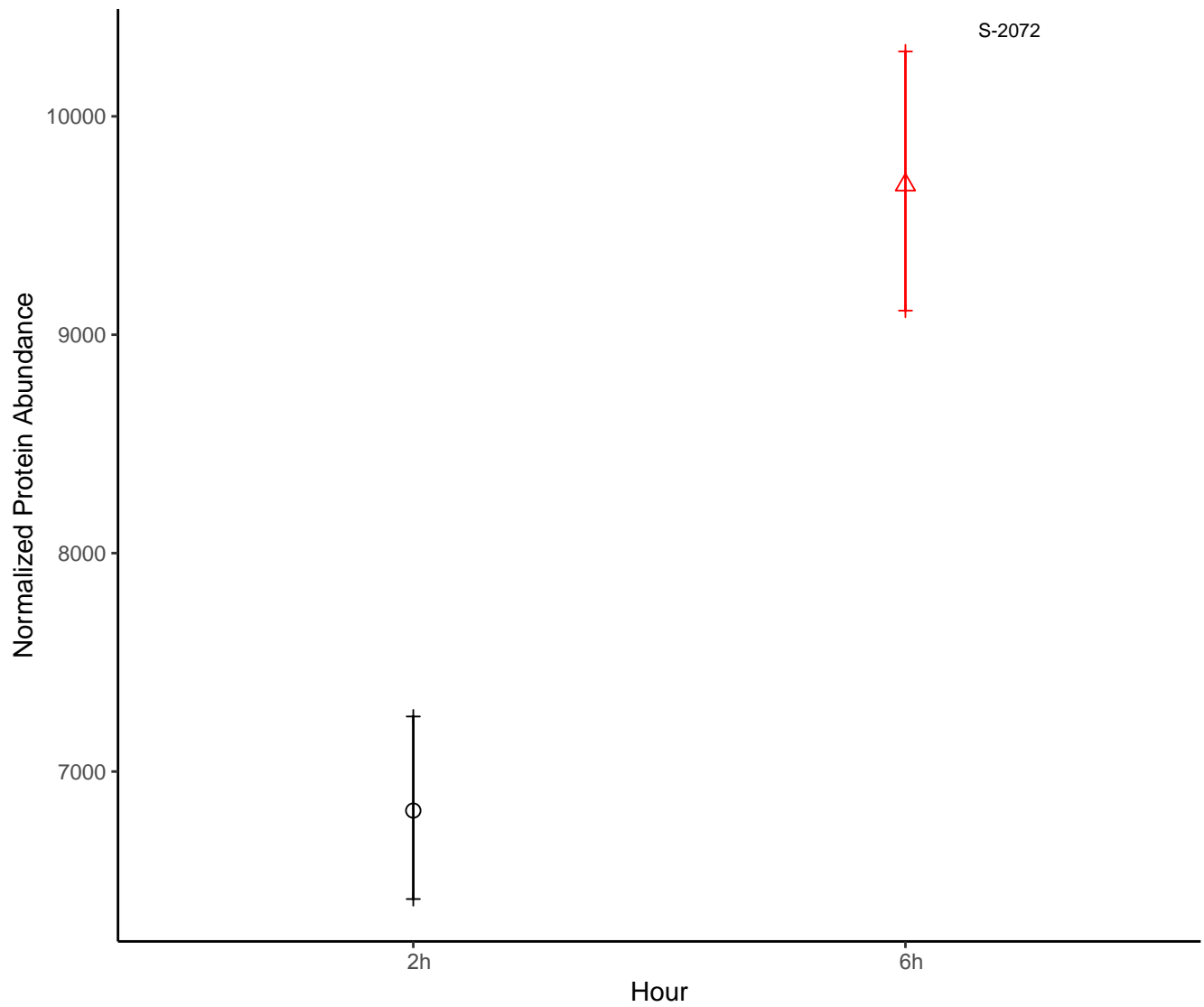
⊕ 2h

△ 6h

# CYSK\_STAAM



# DAAA\_STAAM

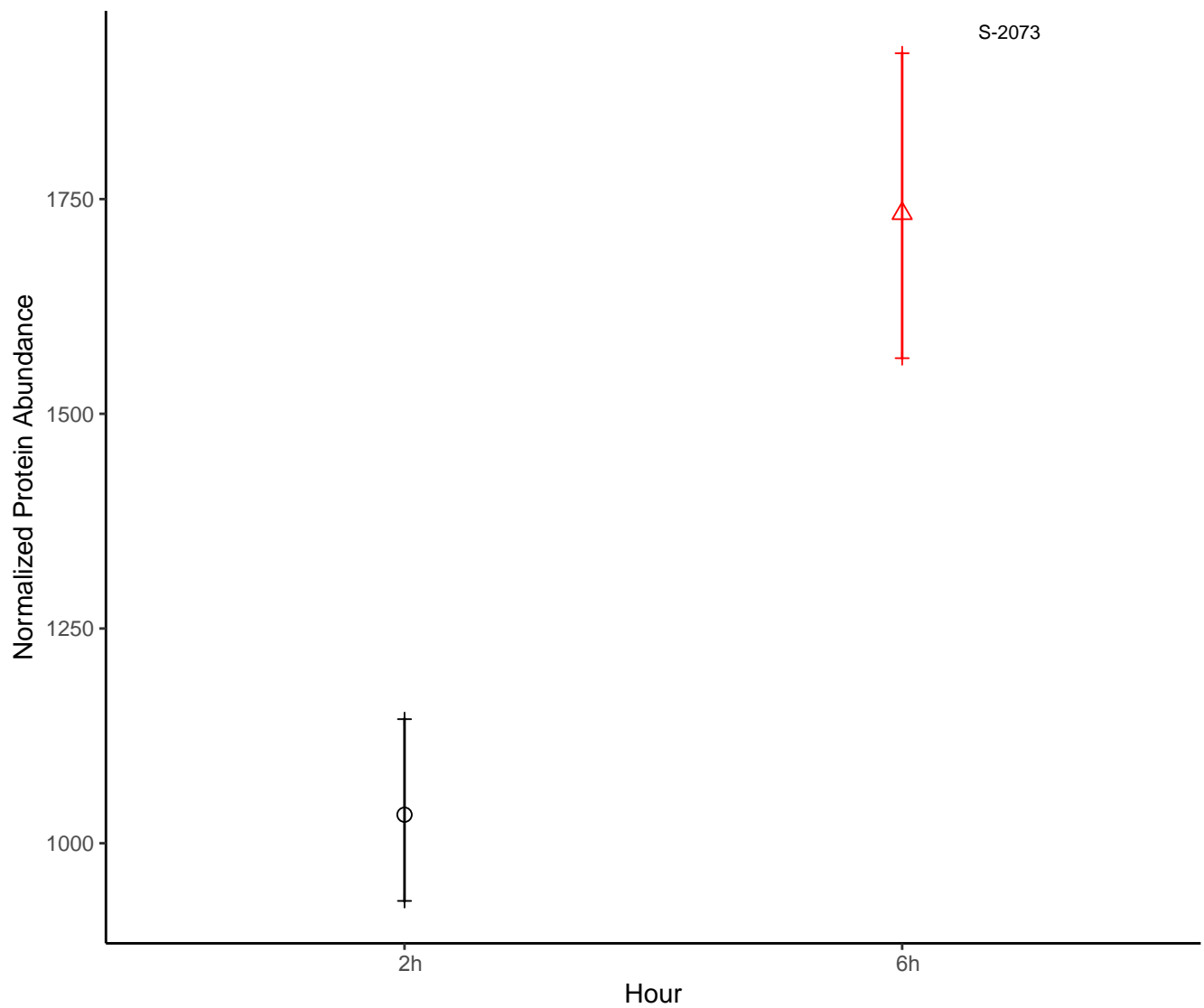


⊕ 2h

△ 6h



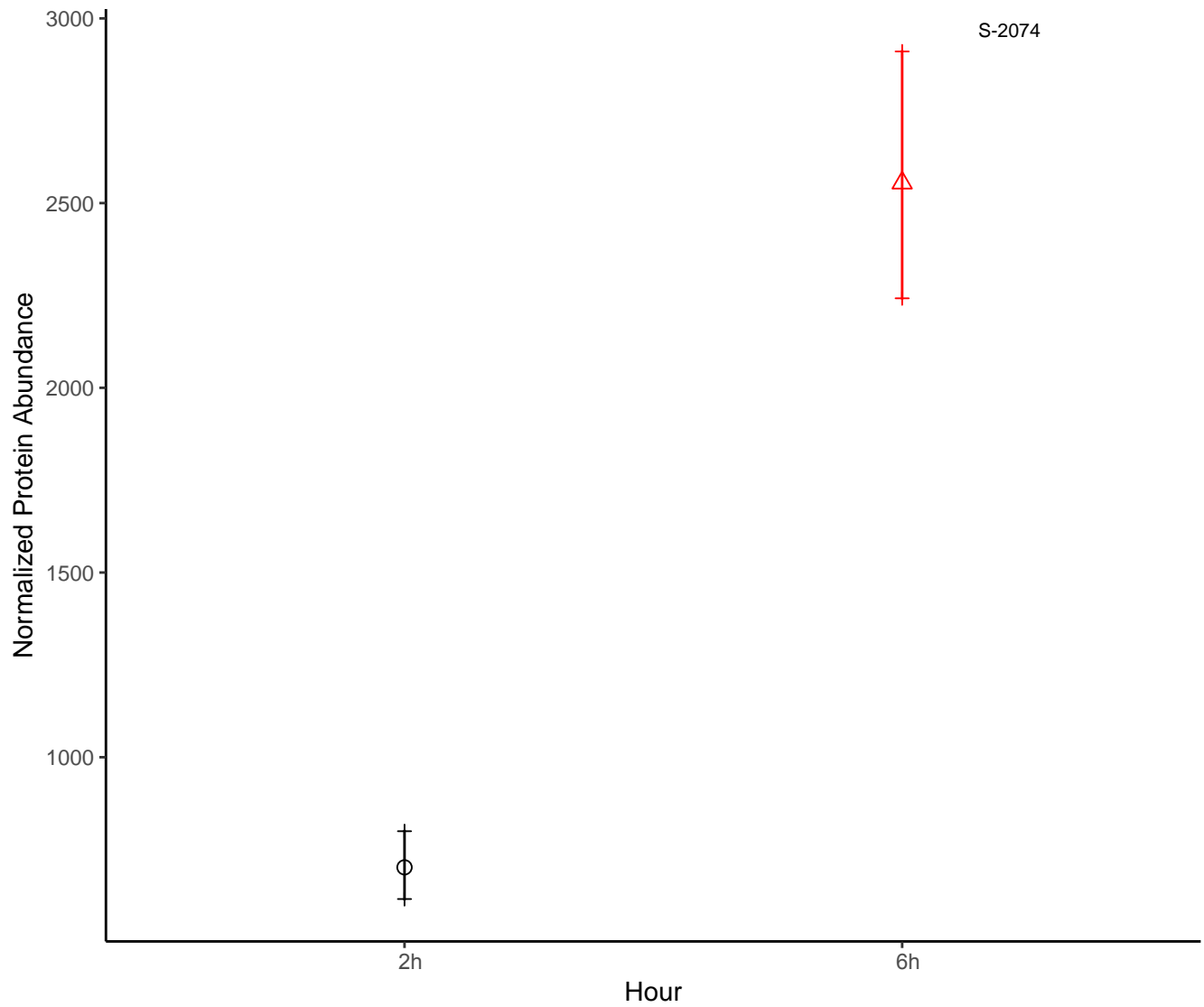
# DAPB\_STAAM



⊕ 2h

△ 6h

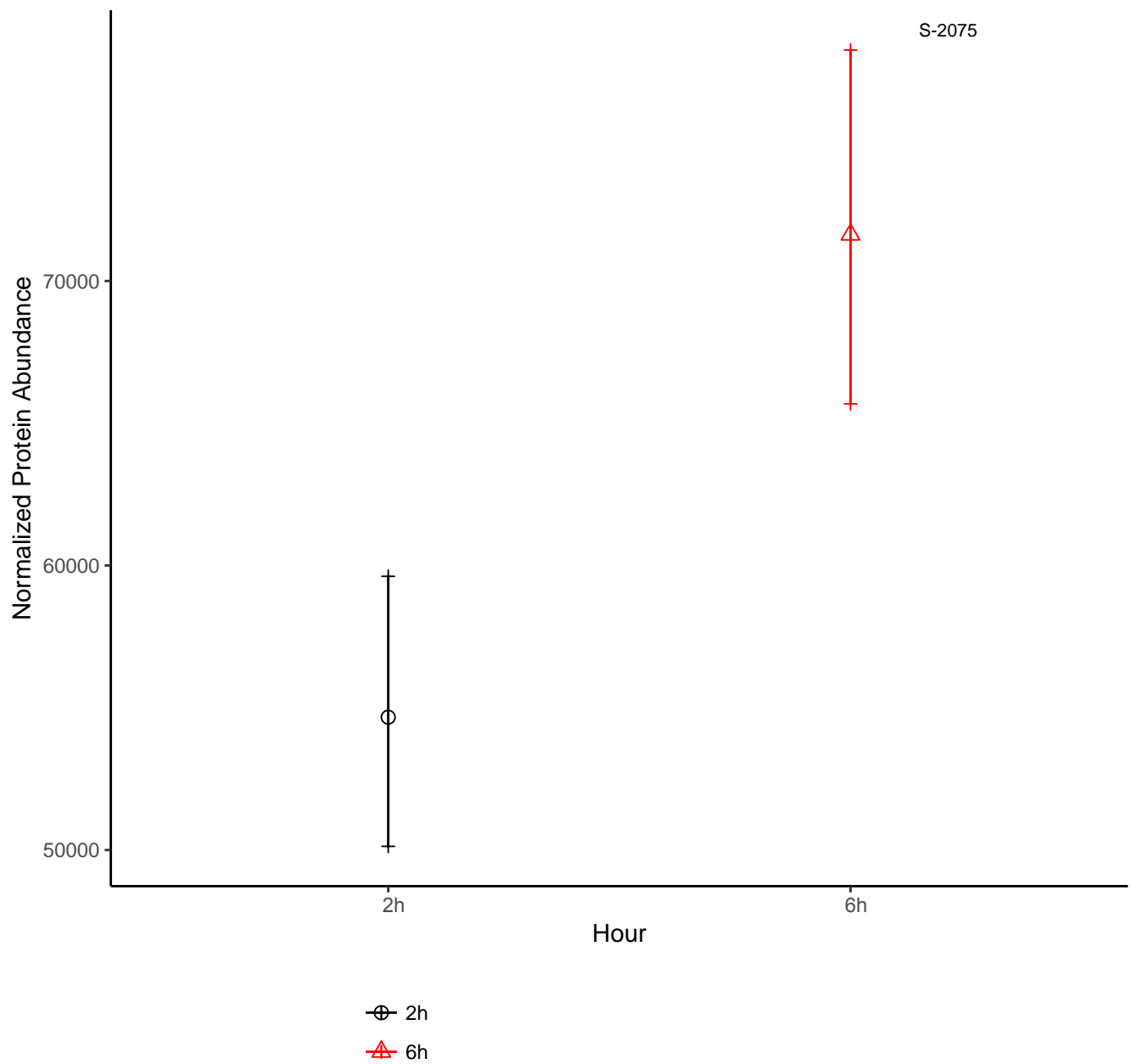
# DAPH\_STAAM



⊕ 2h

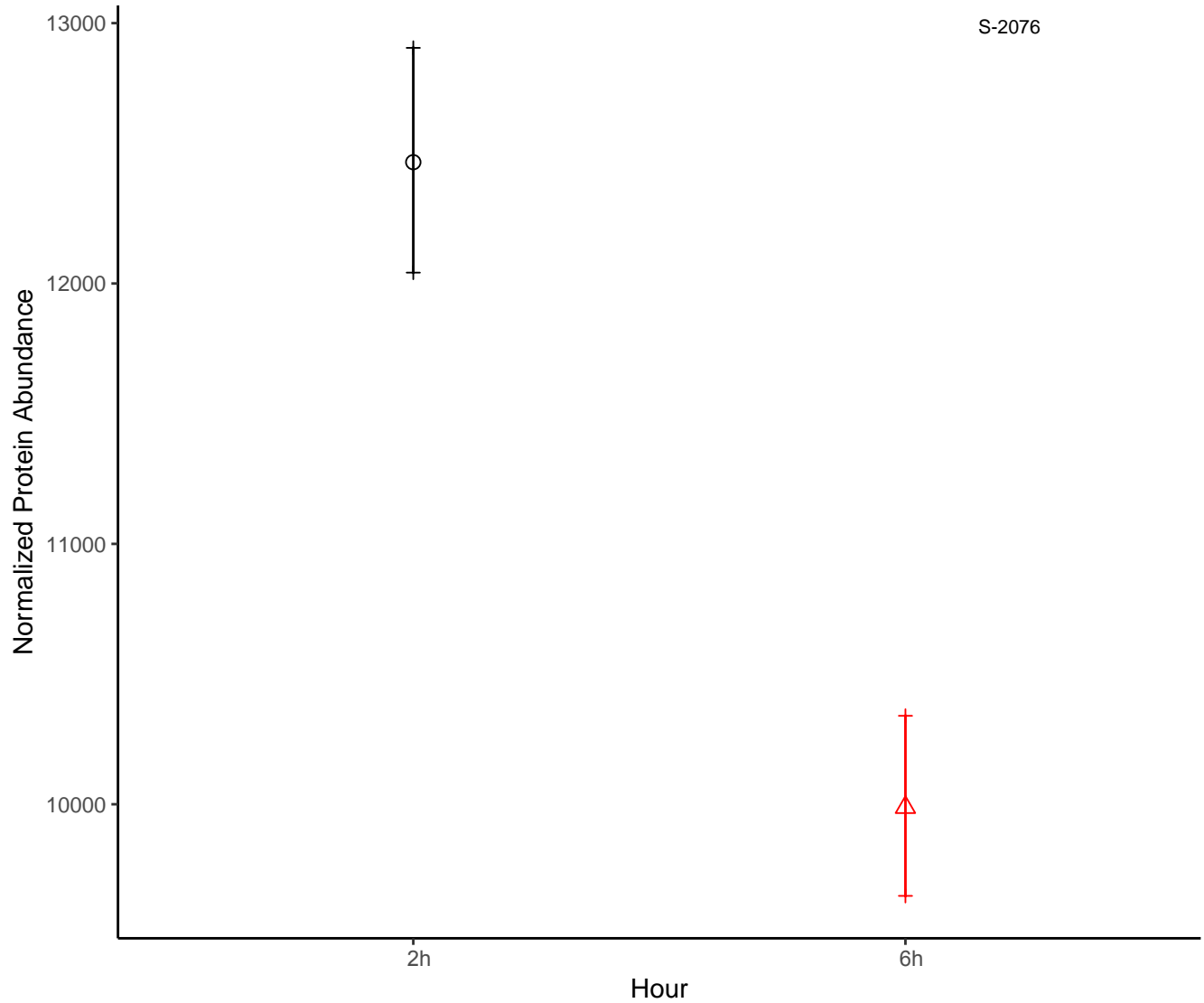
△ 6h

# DBH\_STAAM



# DCUP\_STAAM

S-2076

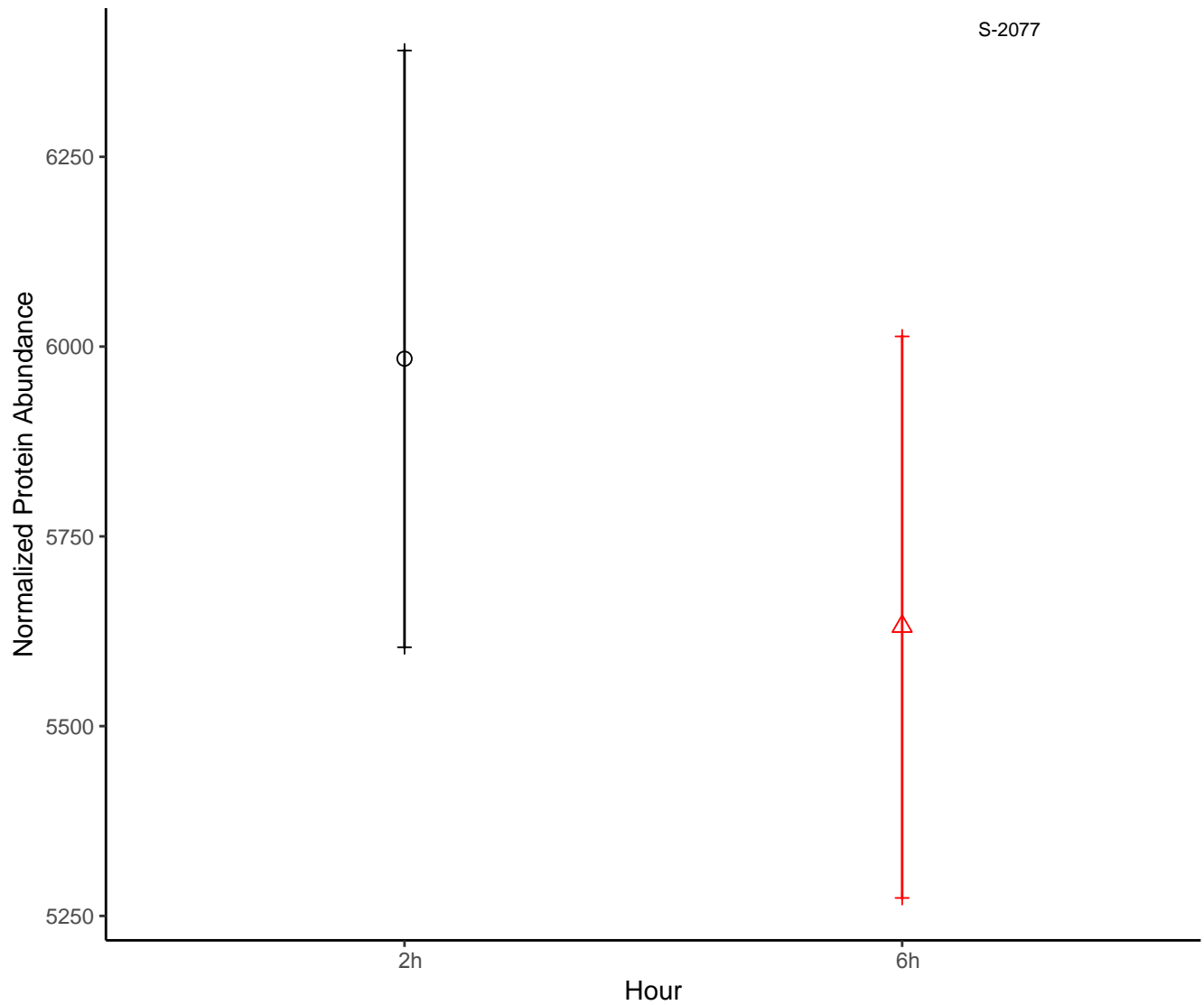


⊕ 2h

△ 6h

# DDL\_STAAM

S-2077

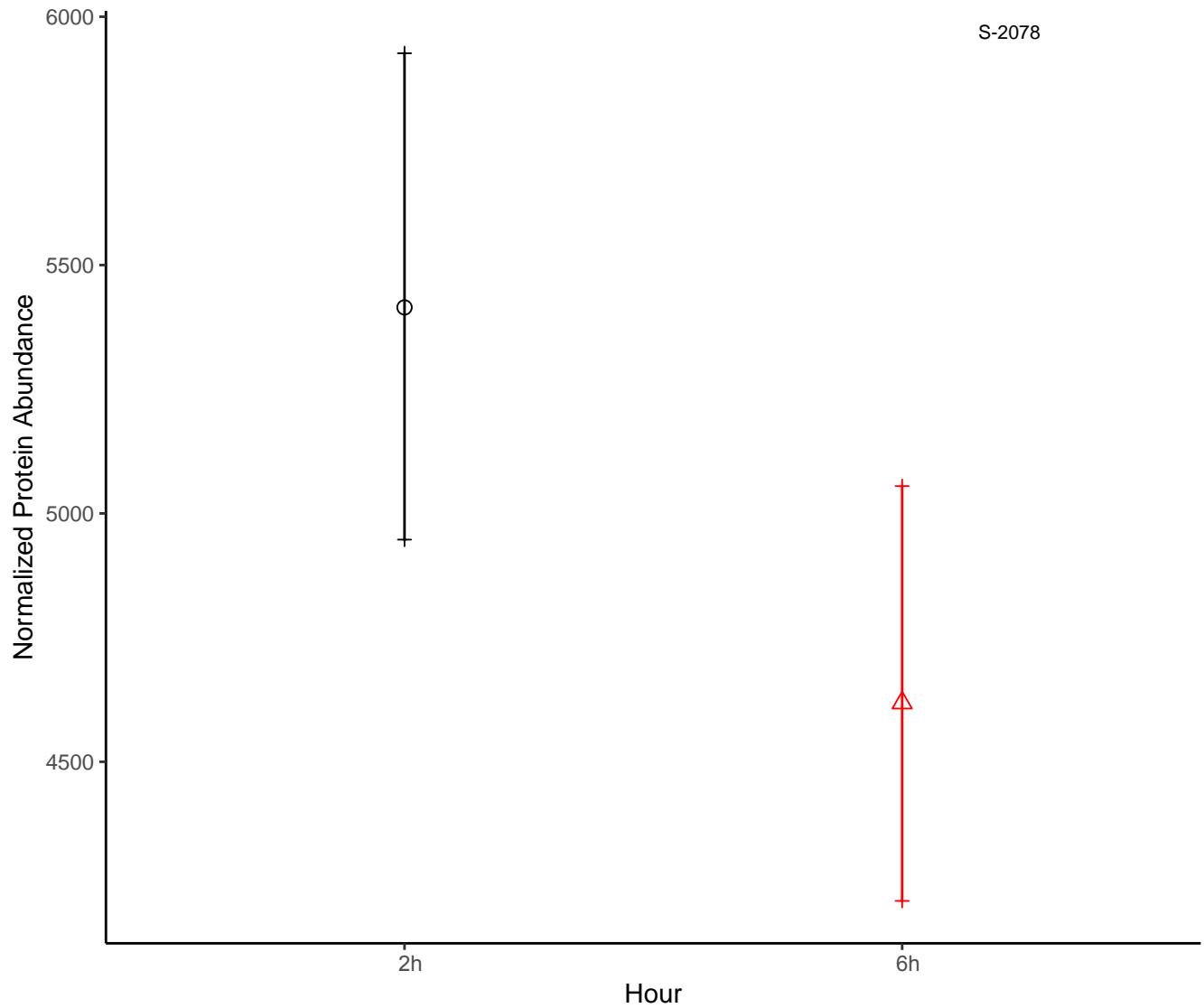


⊕ 2h

△ 6h

# DEF\_STAAM

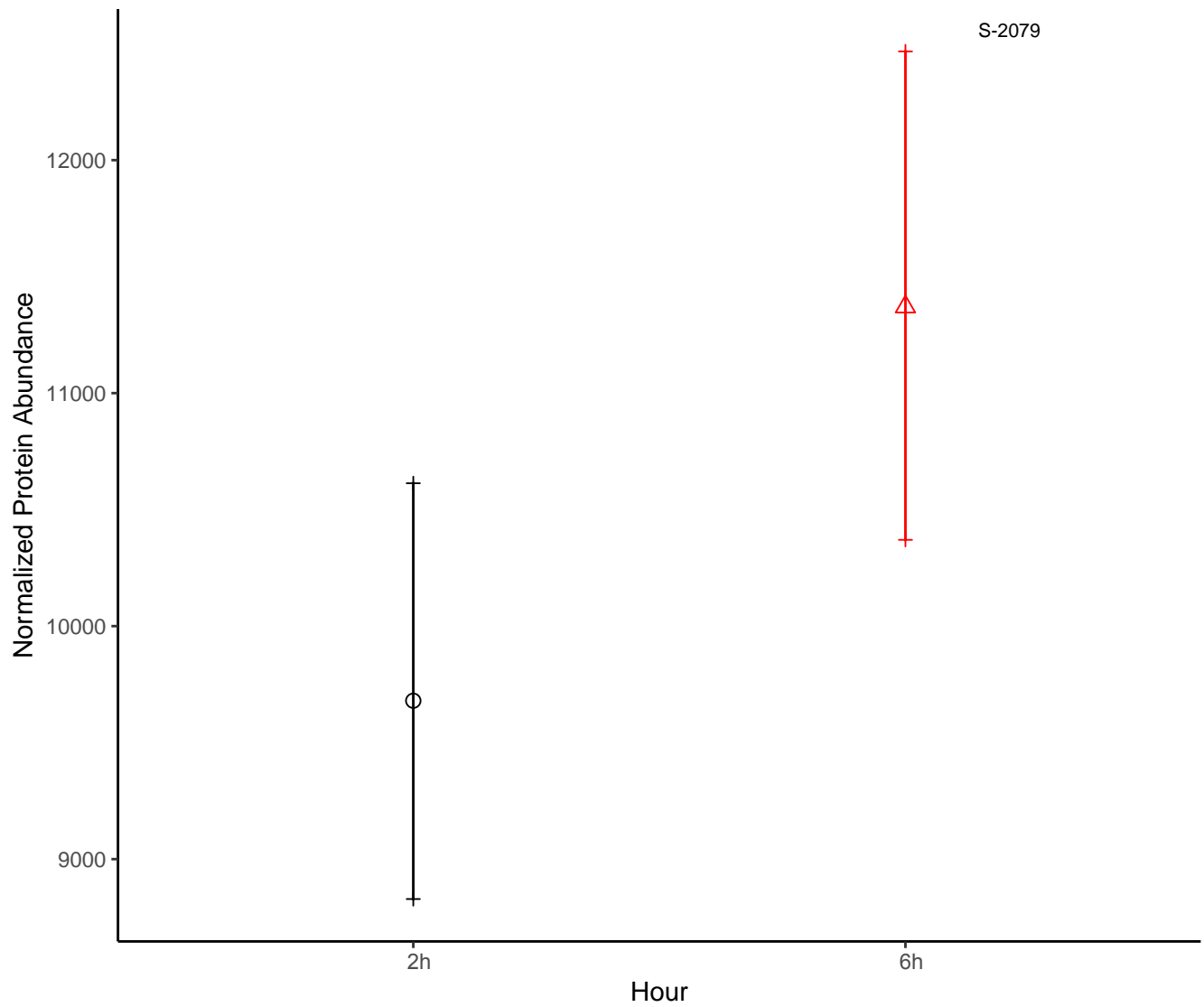
S-2078



⊕ 2h

△ 6h

# DEOB\_STAAM



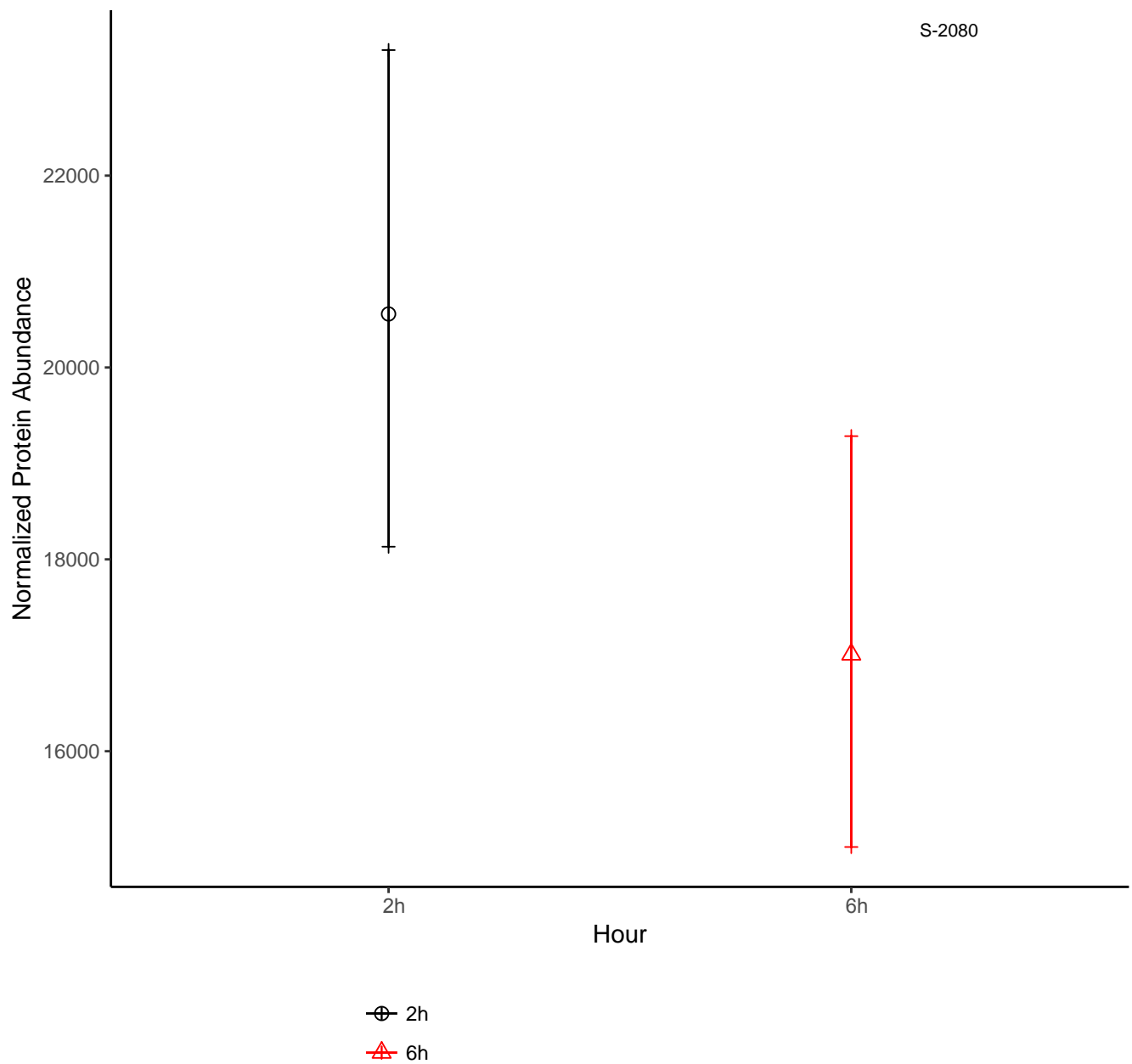
S-2079

⊕ 2h

△ 6h

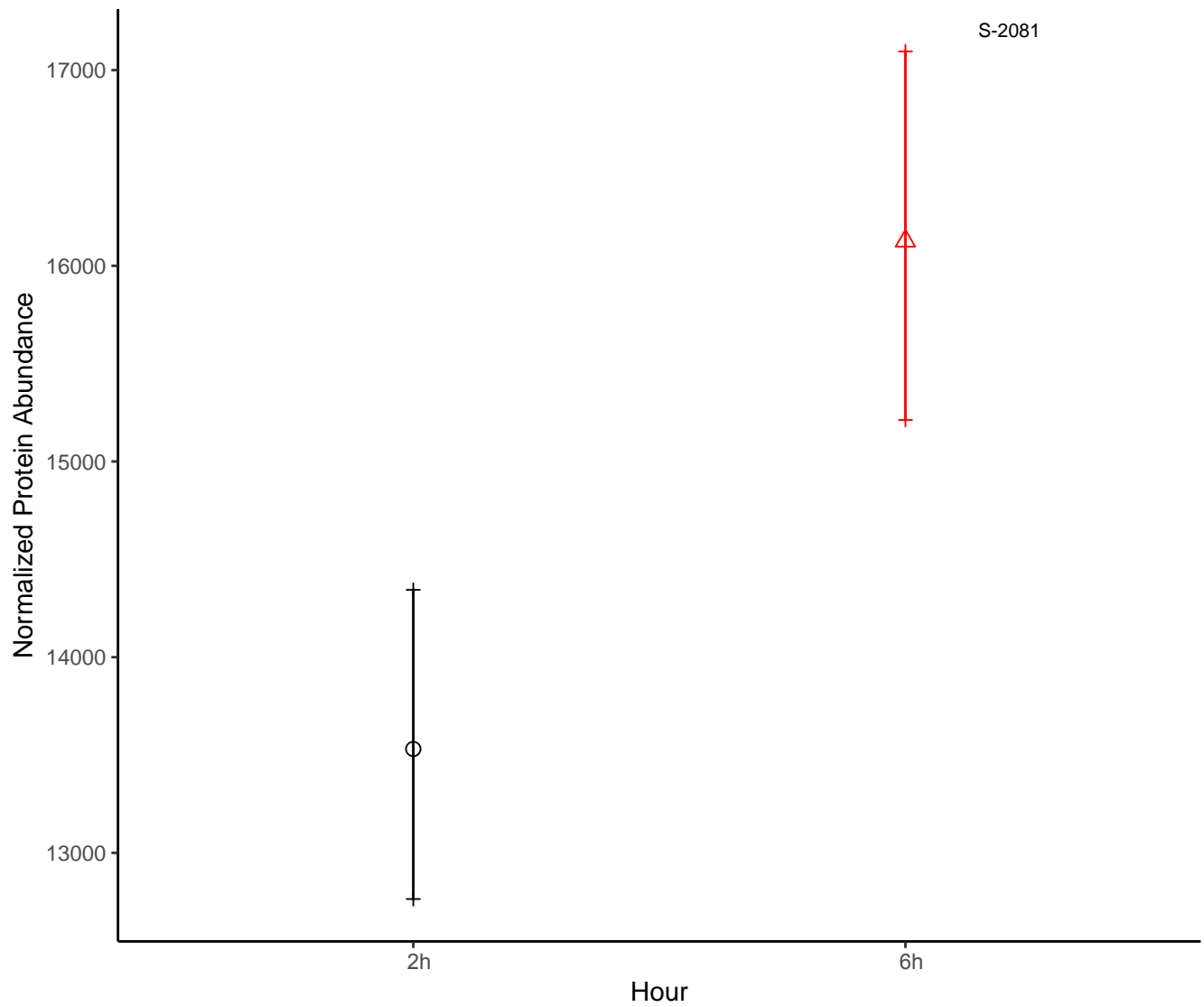
# DEOC1\_STAAM

S-2080





# DEOC2\_STAAM

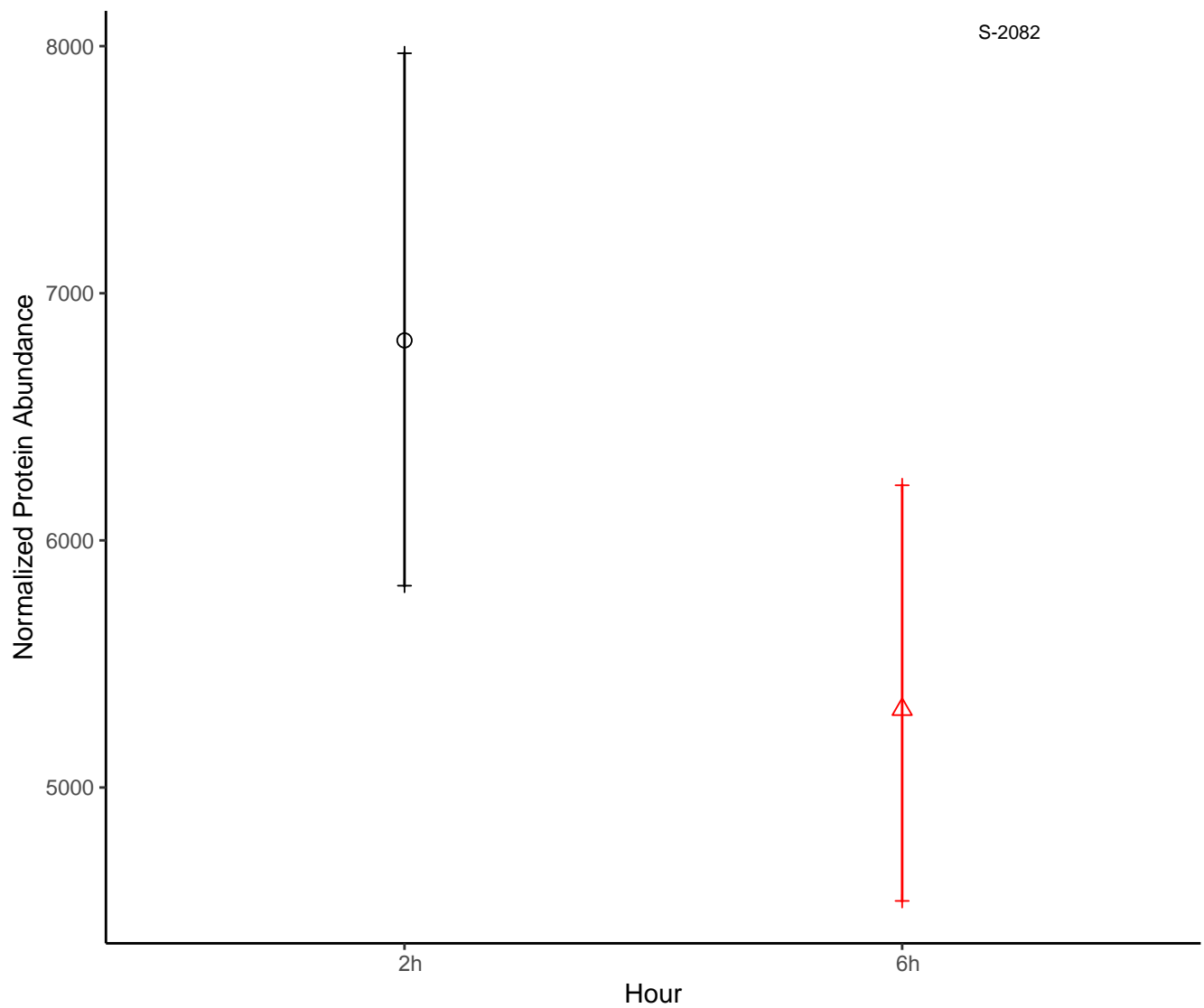


⊕ 2h

△ 6h

# DER\_STAAM

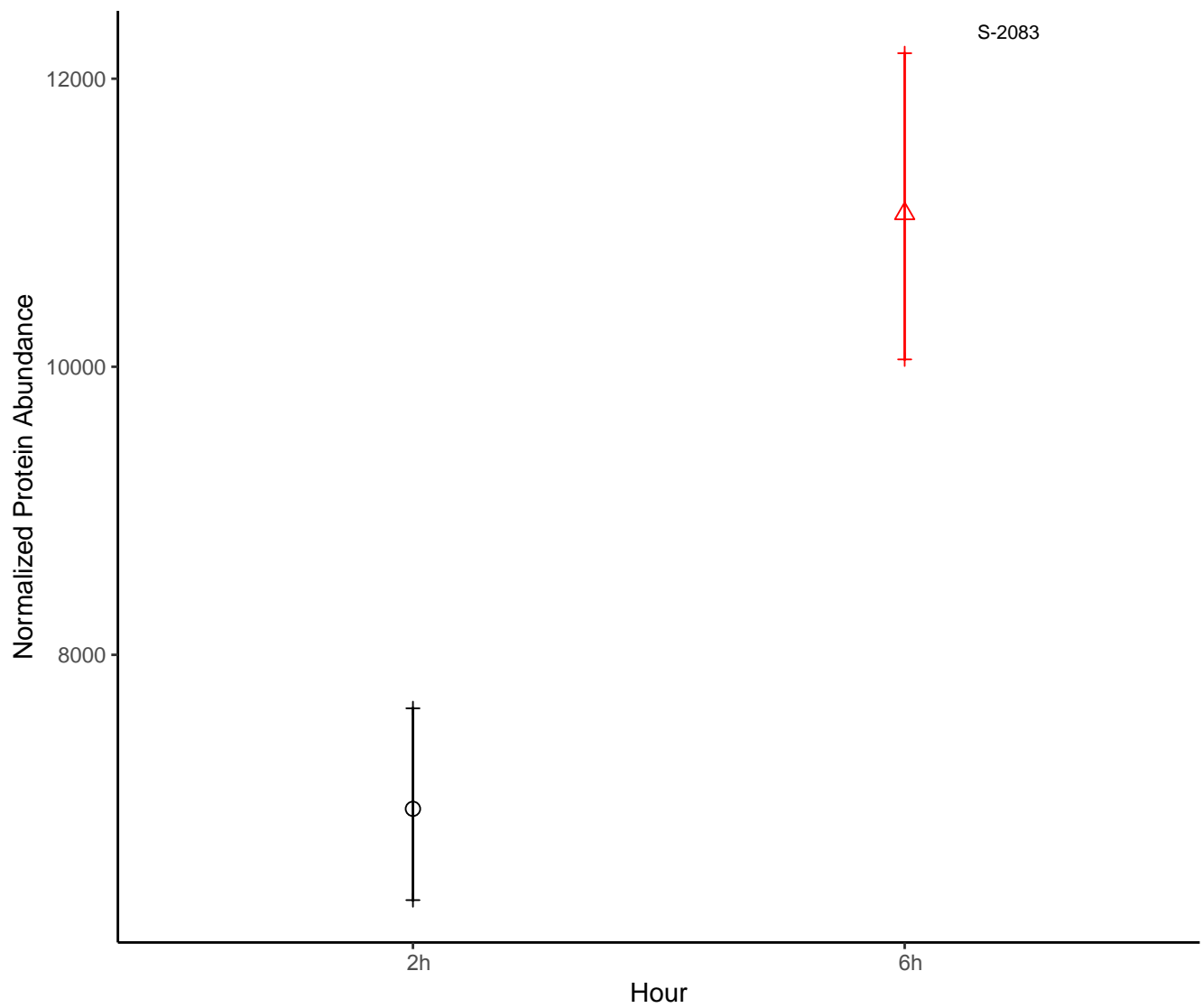
S-2082



⊕ 2h

△ 6h

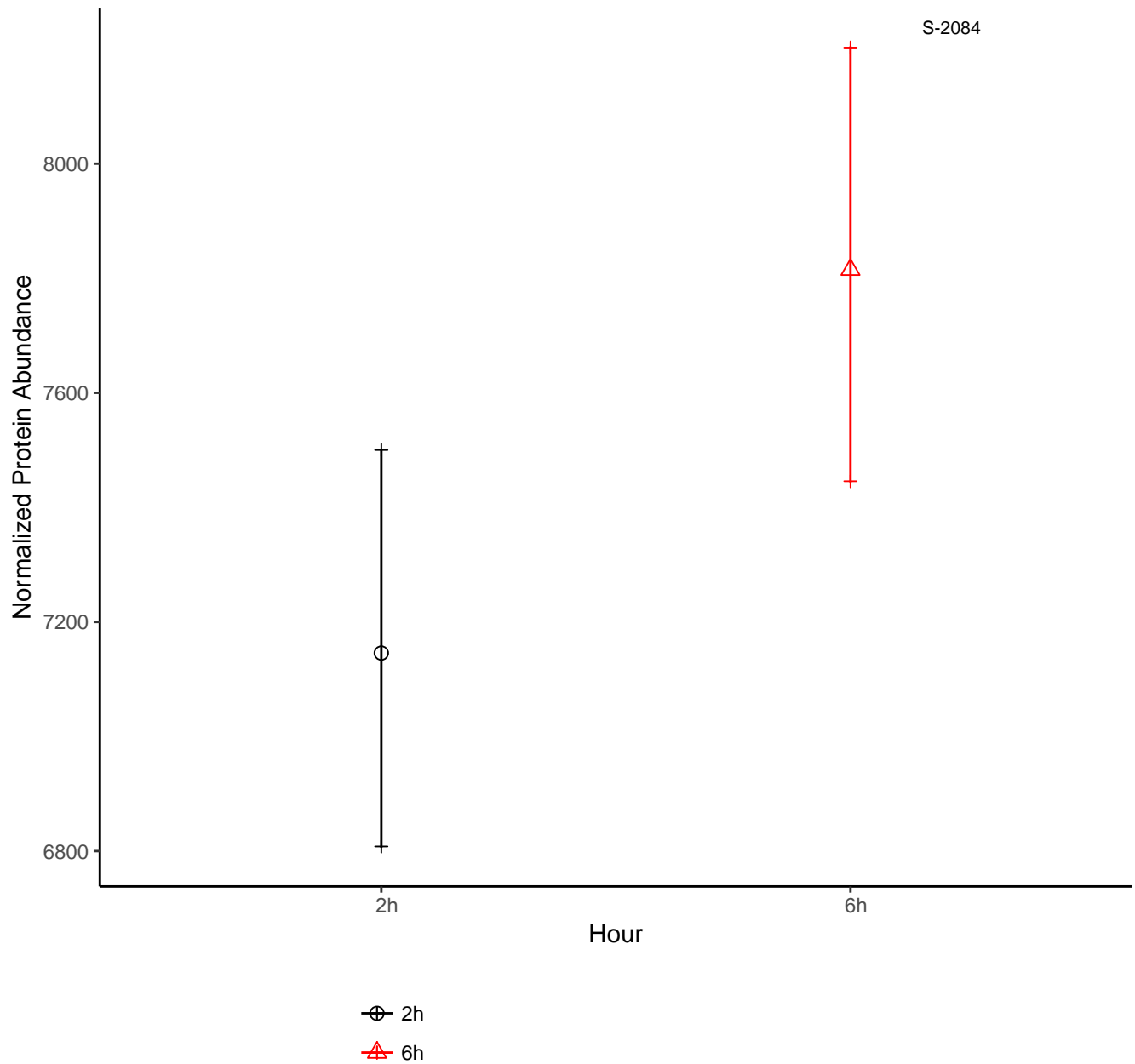
# DHA1\_STAAM



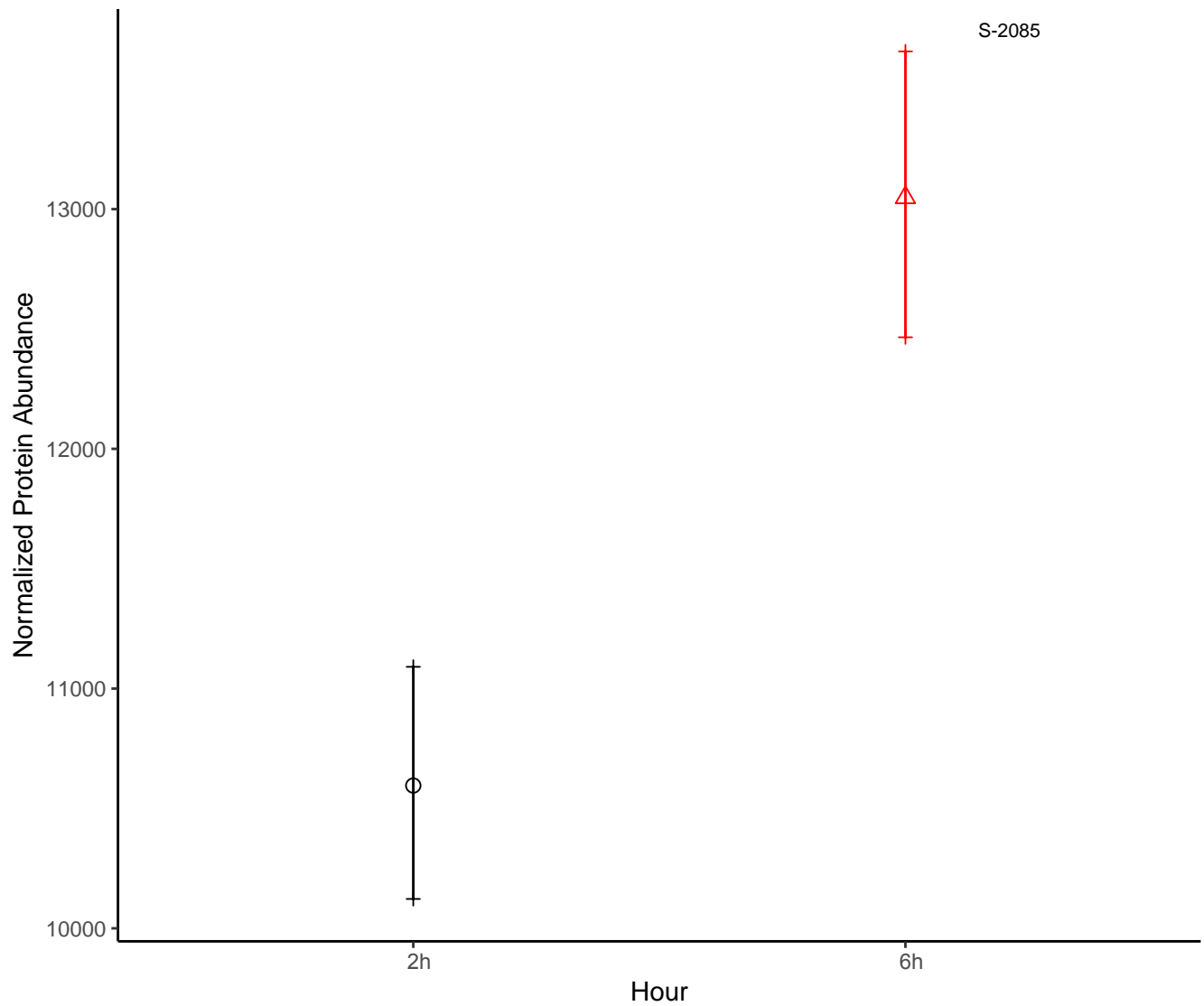
⊕ 2h

△ 6h

# DHA2\_STAAM



# DHE2\_STAAM

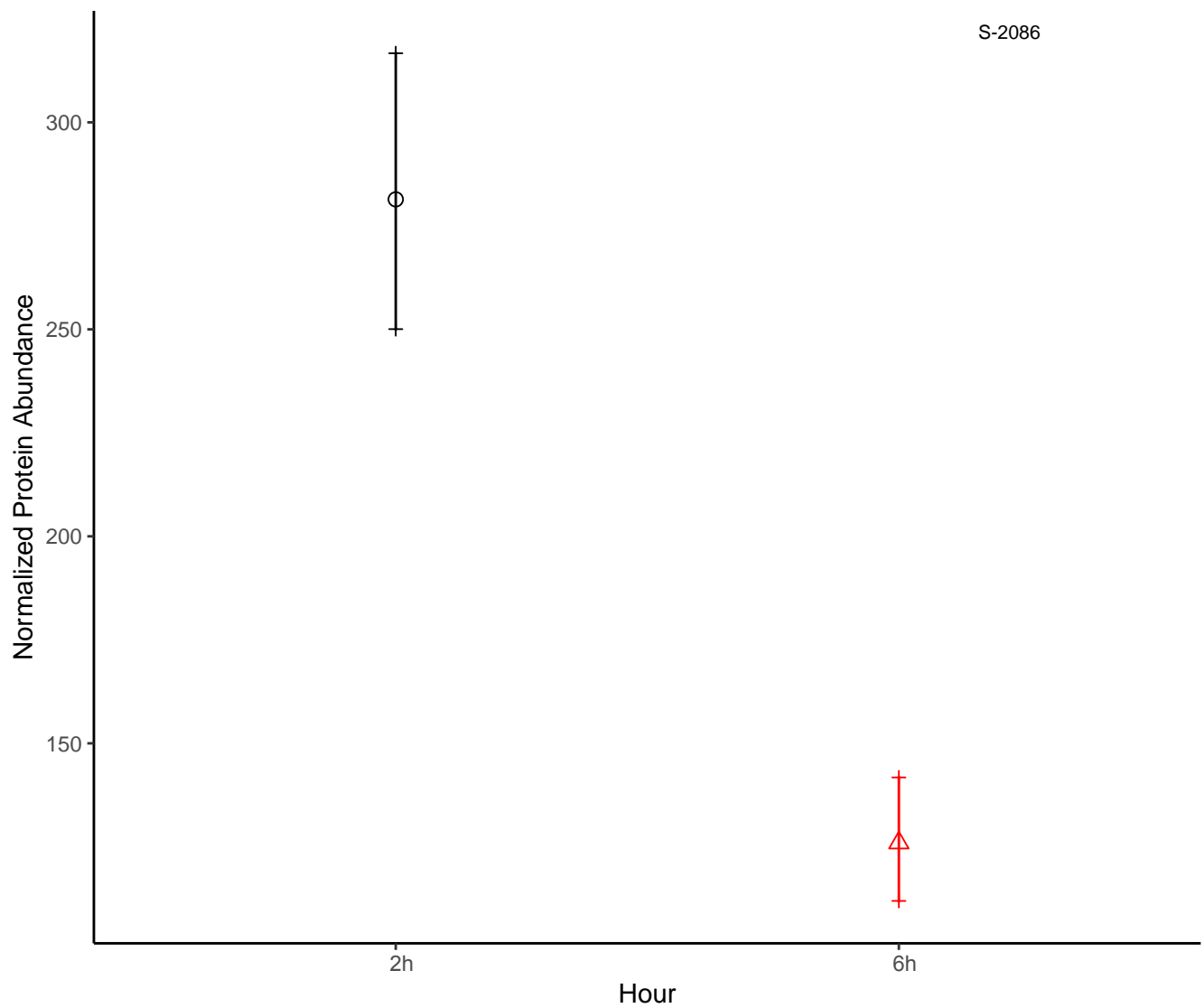


⊕ 2h

△ 6h

# DHPS\_STAAM

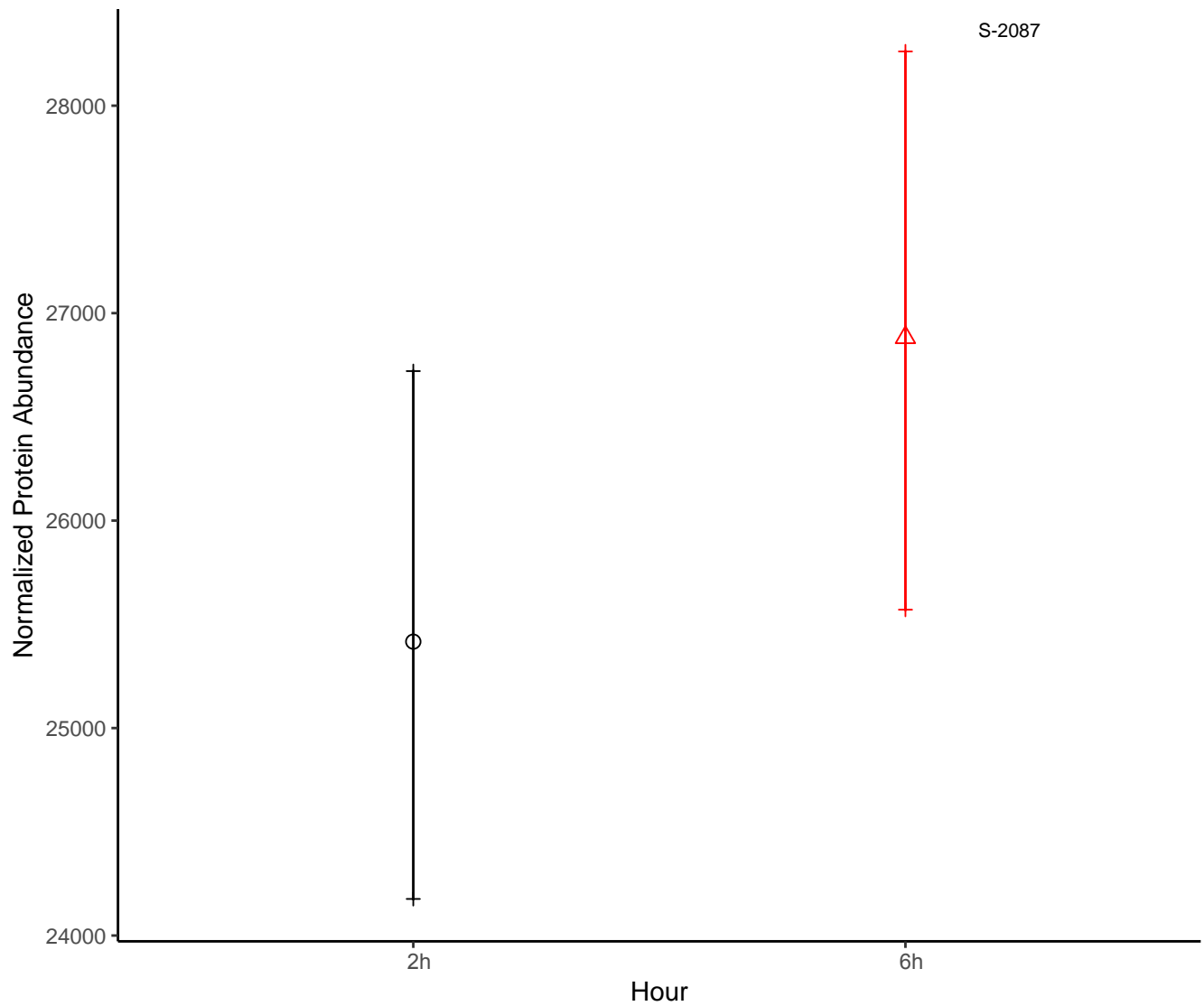
S-2086



⊕ 2h

△ 6h

# DLDH\_STAAM

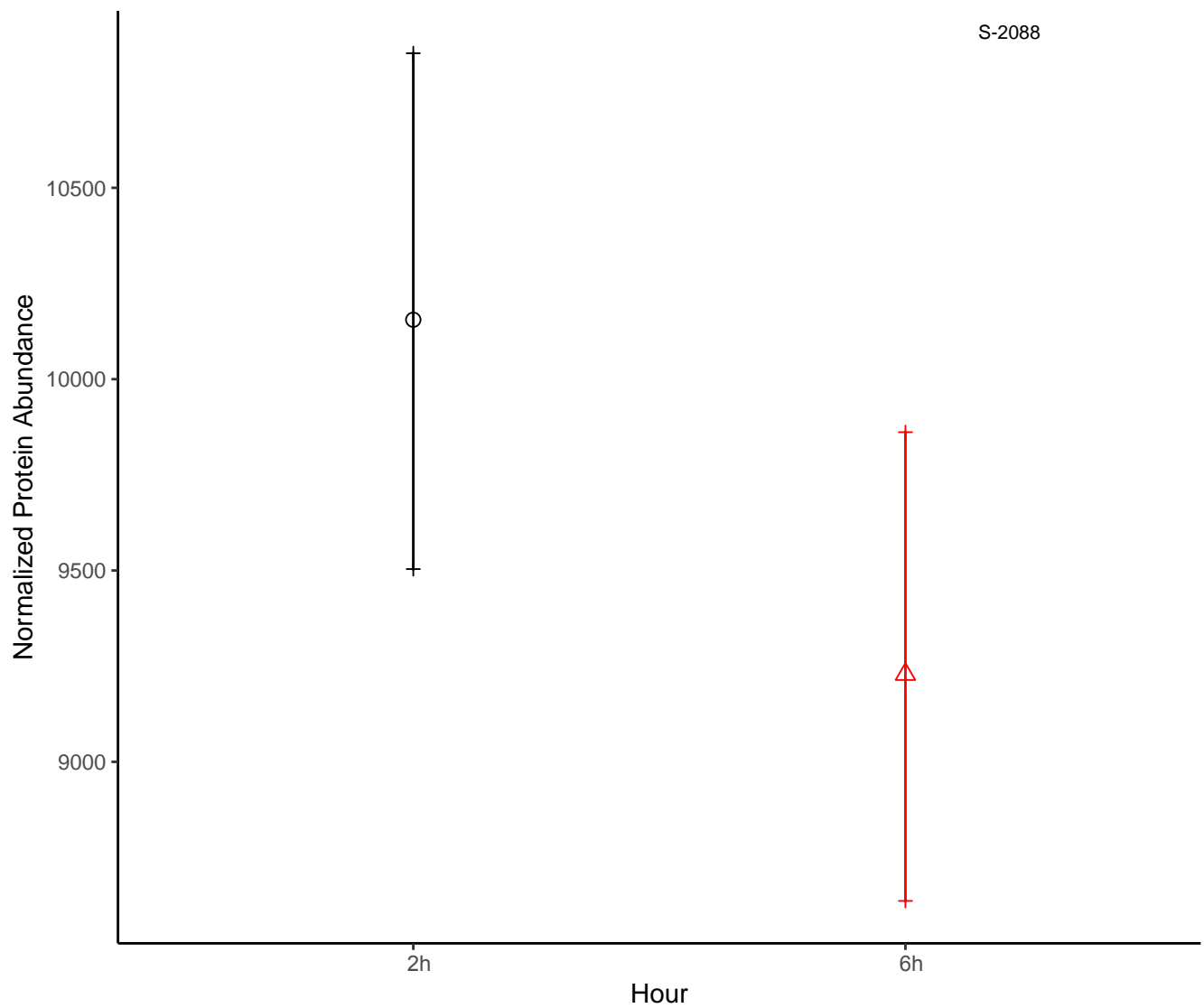


⊕ 2h

△ 6h

# DLTA\_STAAM

S-2088



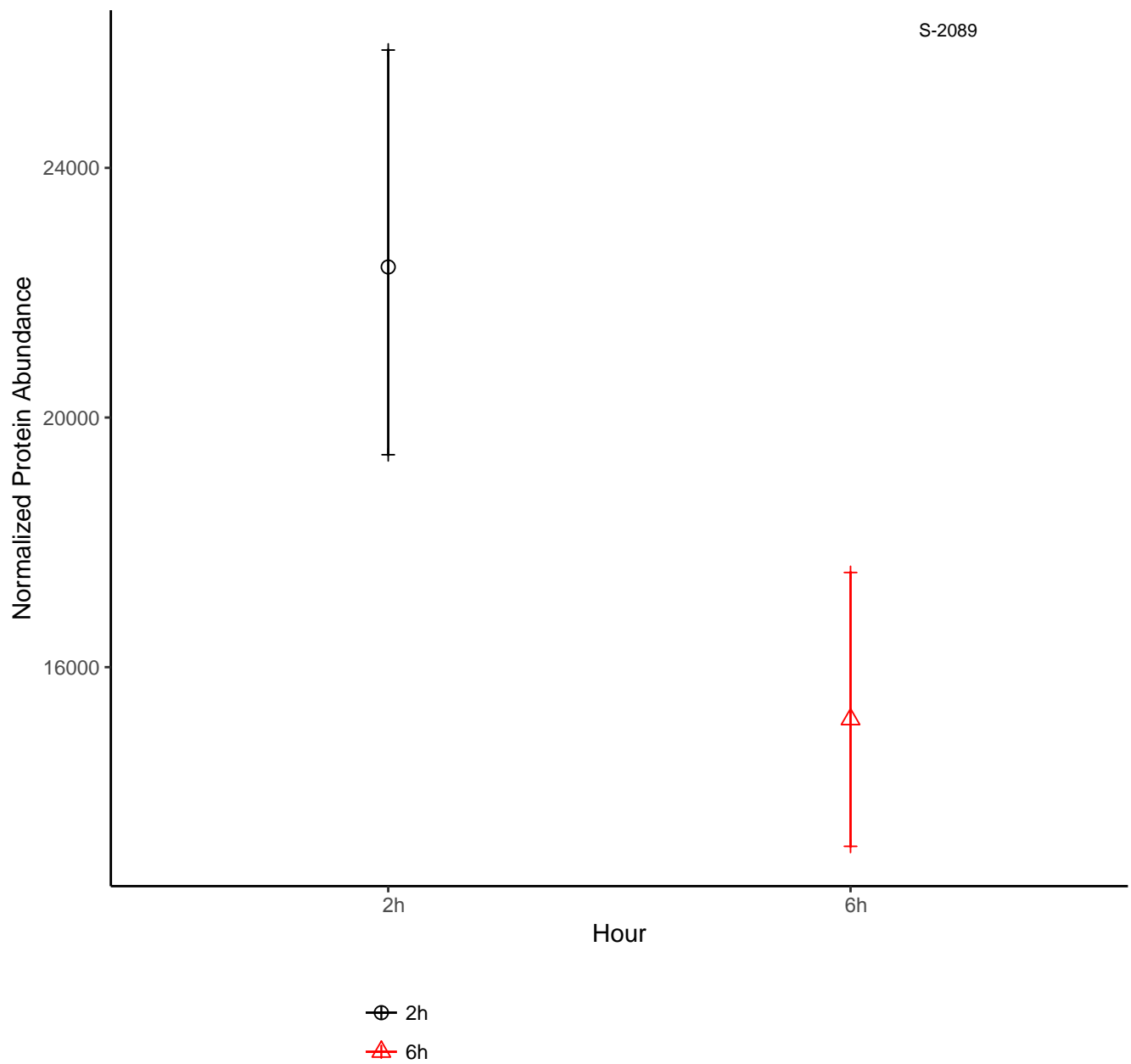
⊕ 2h

△ 6h



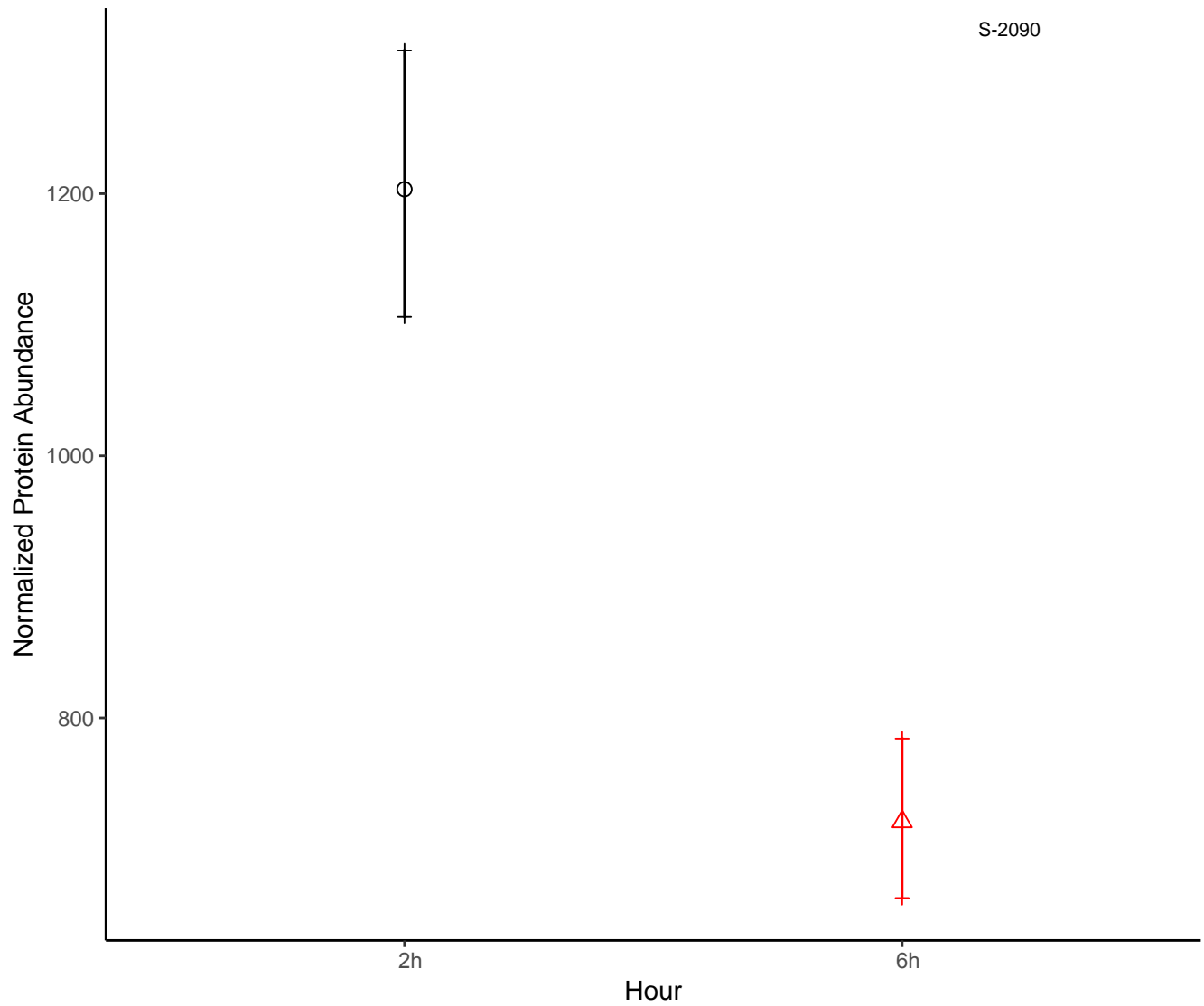
# DLTC\_STAAM

S-2089



# DNAA\_STAAM

S-2090

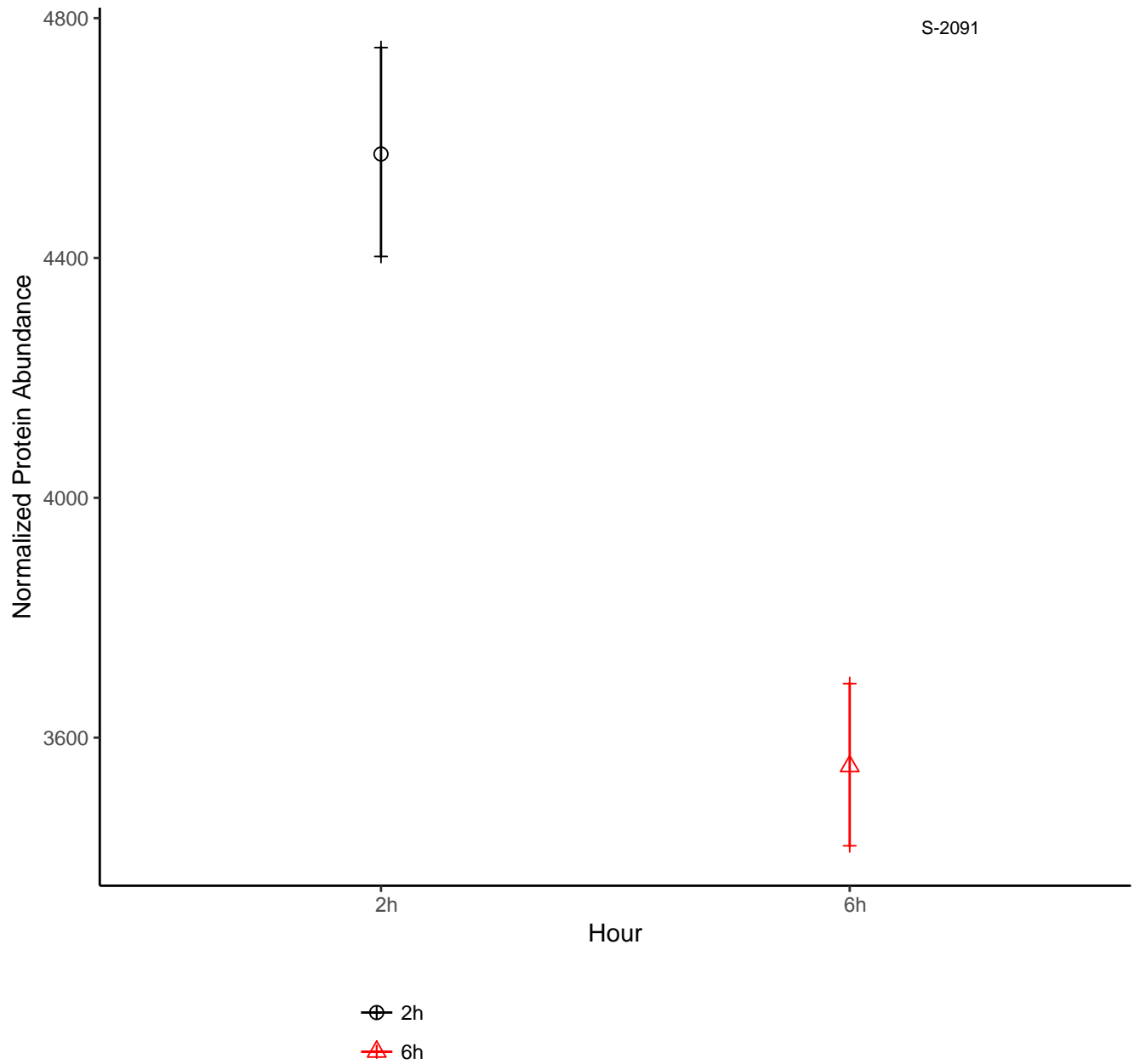


⊕ 2h

△ 6h

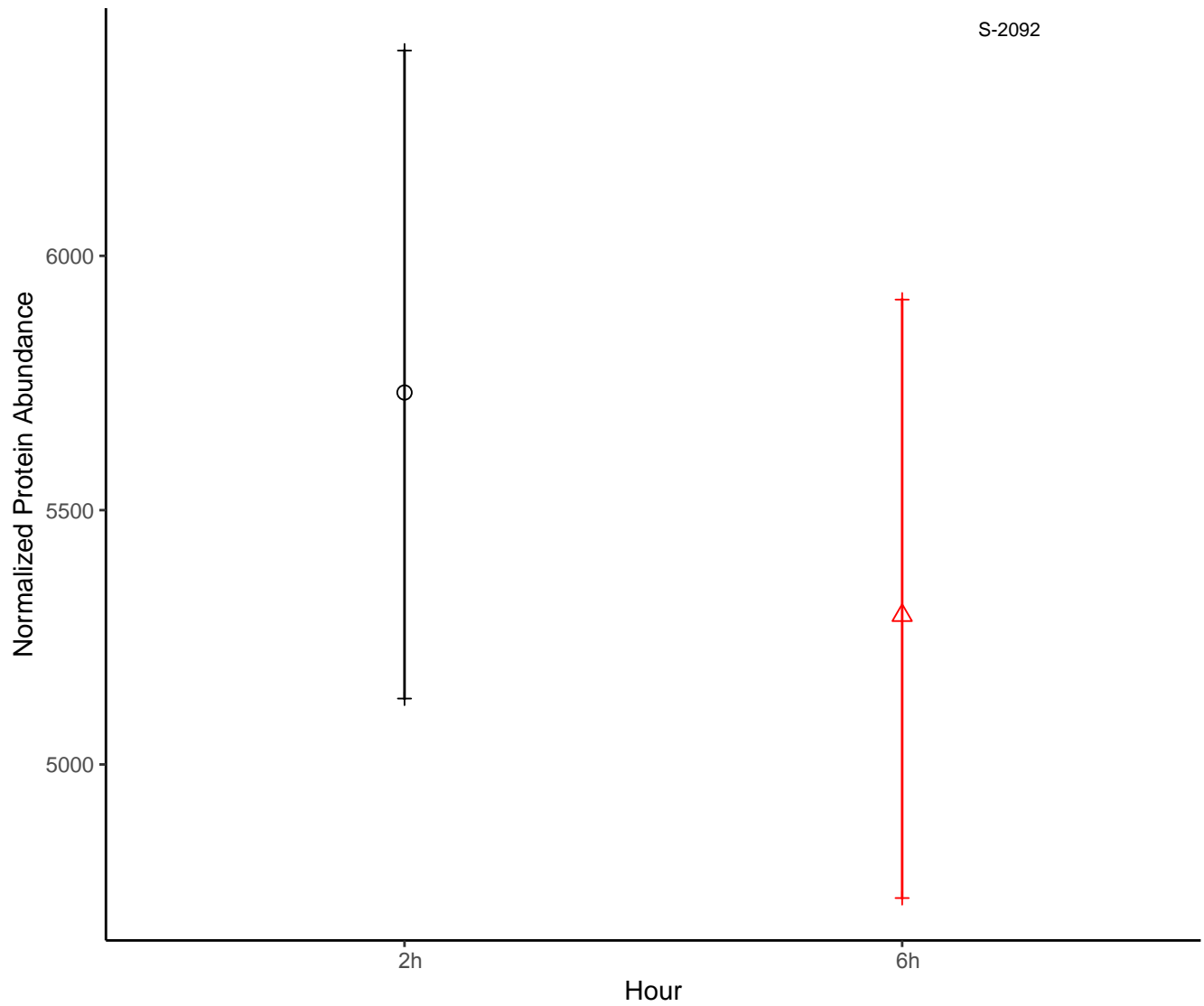
# DNAG\_STAAM

S-2091



# DNAJ\_STAAM

S-2092

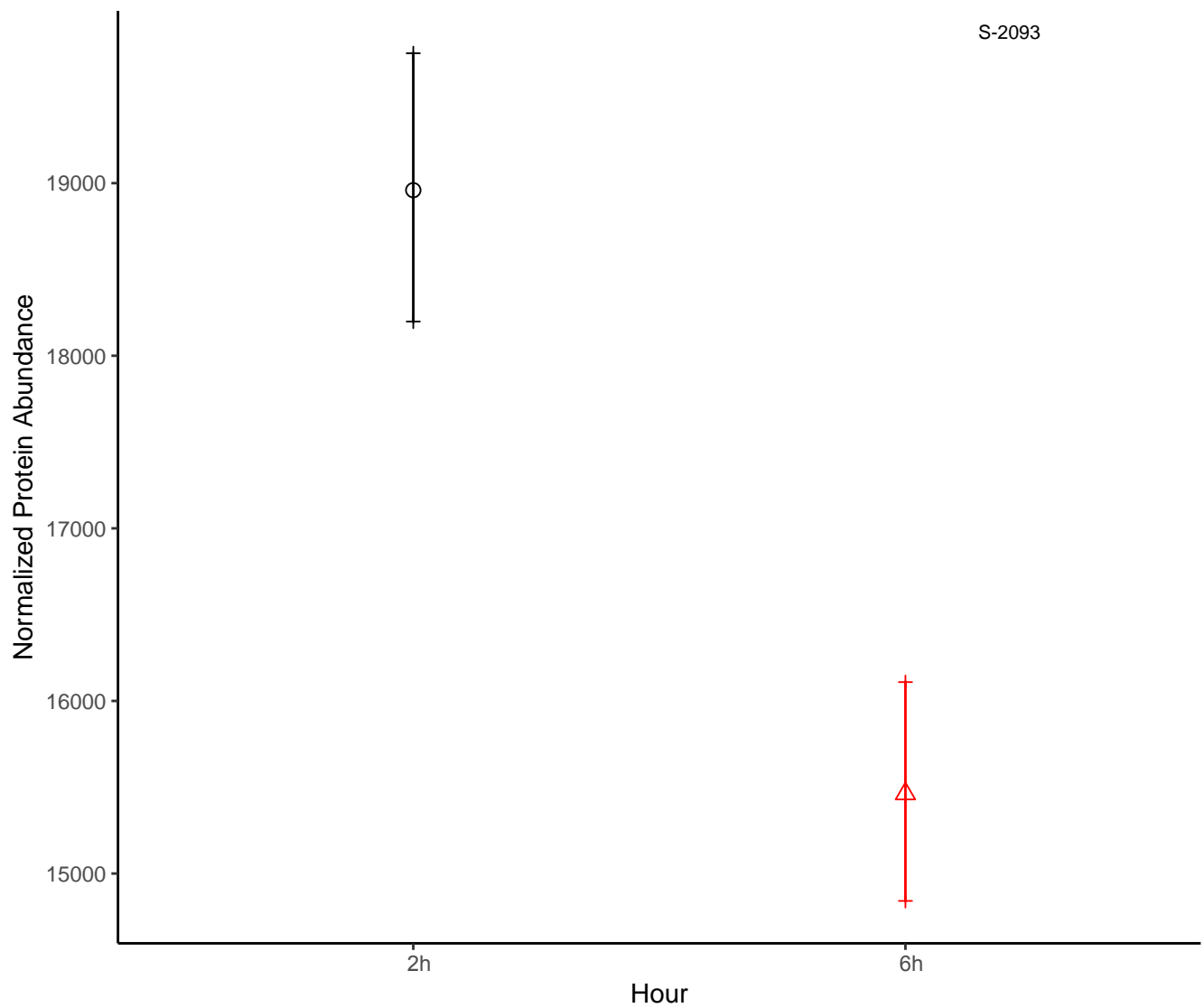


⊕ 2h

△ 6h

# DNAK\_STAAM

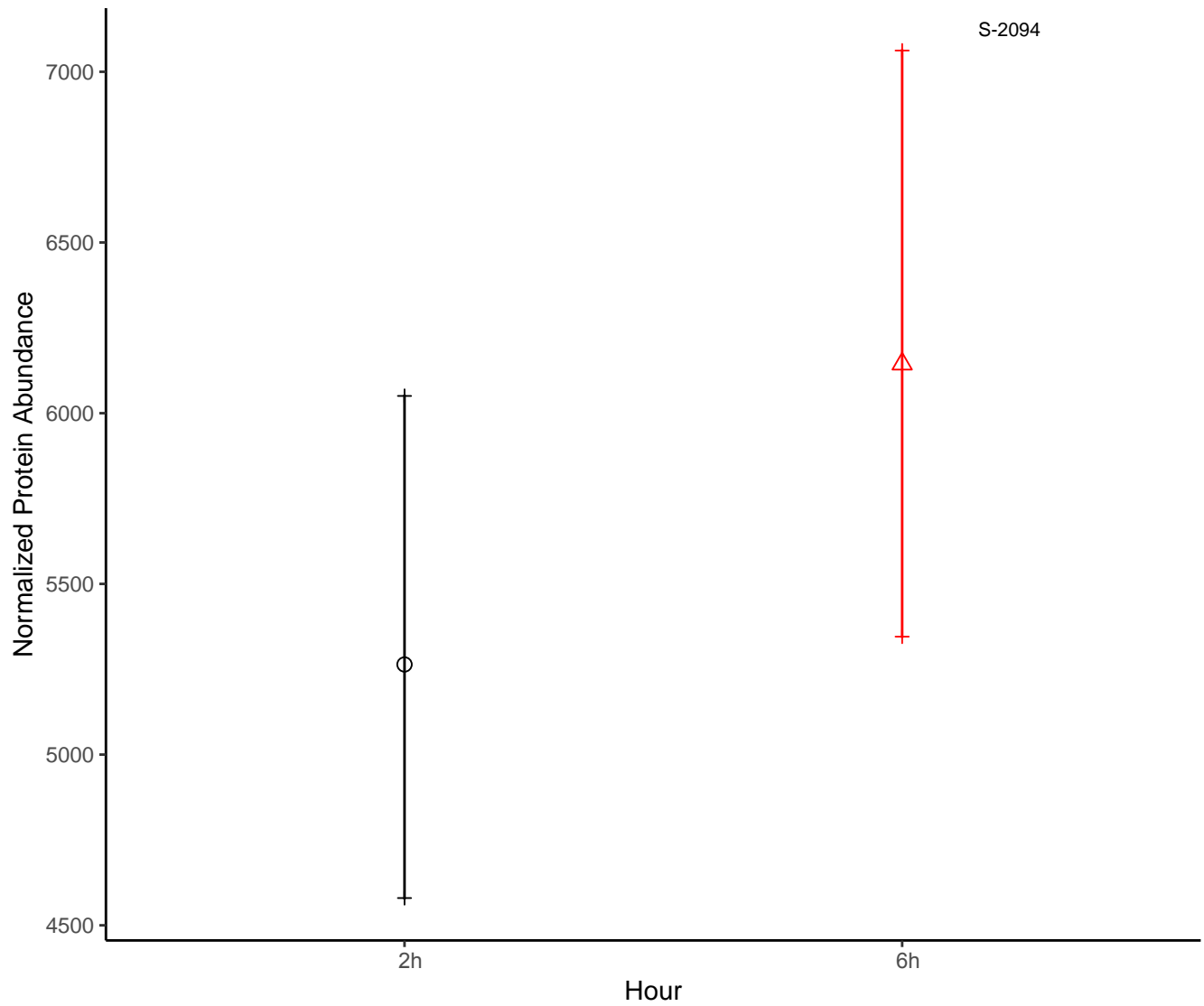
S-2093



⊕ 2h

△ 6h

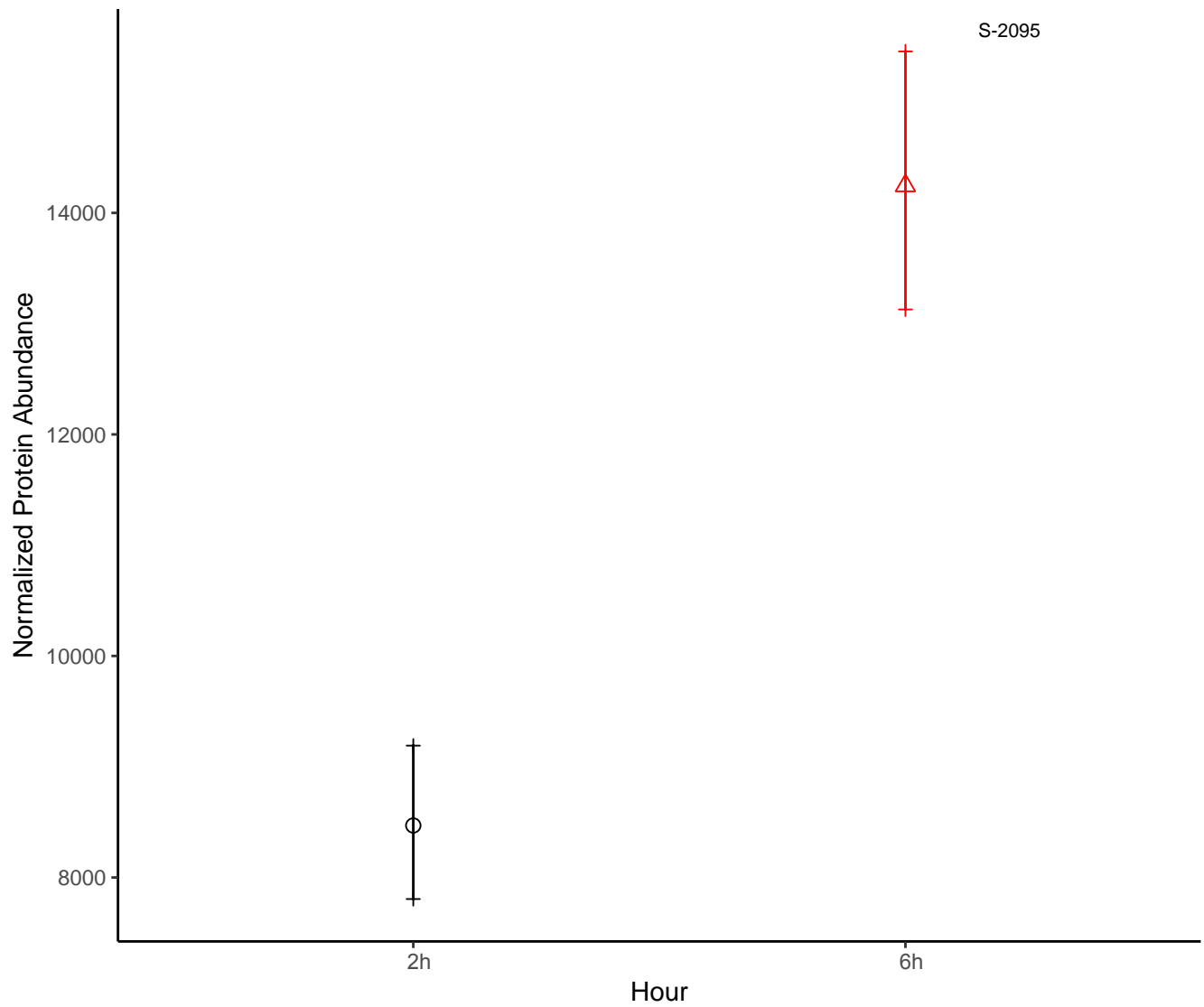
# DNLJ\_STAAM



⊕ 2h

△ 6h

# DPO3B\_STAAM

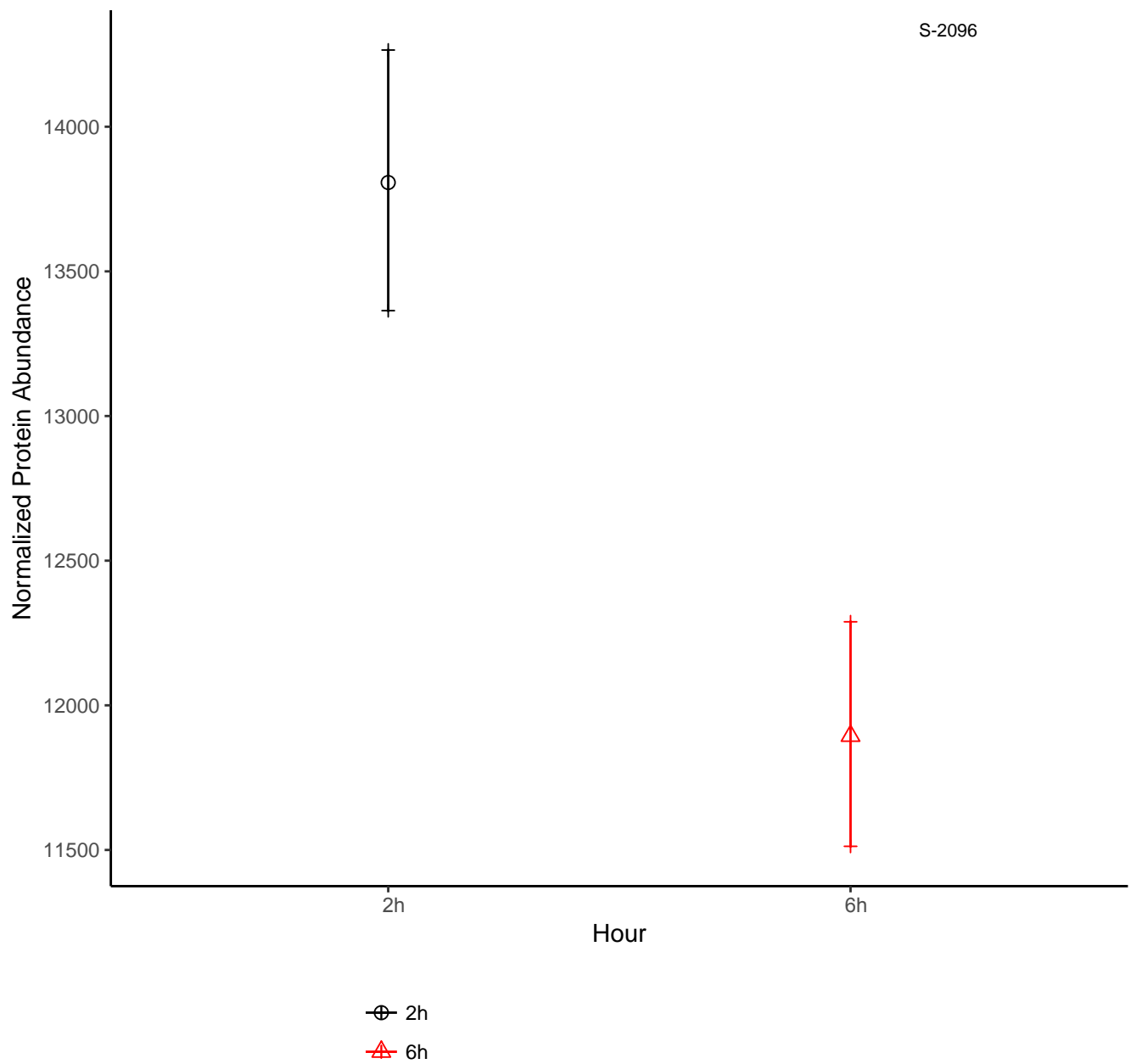


⊕ 2h

△ 6h

# DPO4\_STAAM

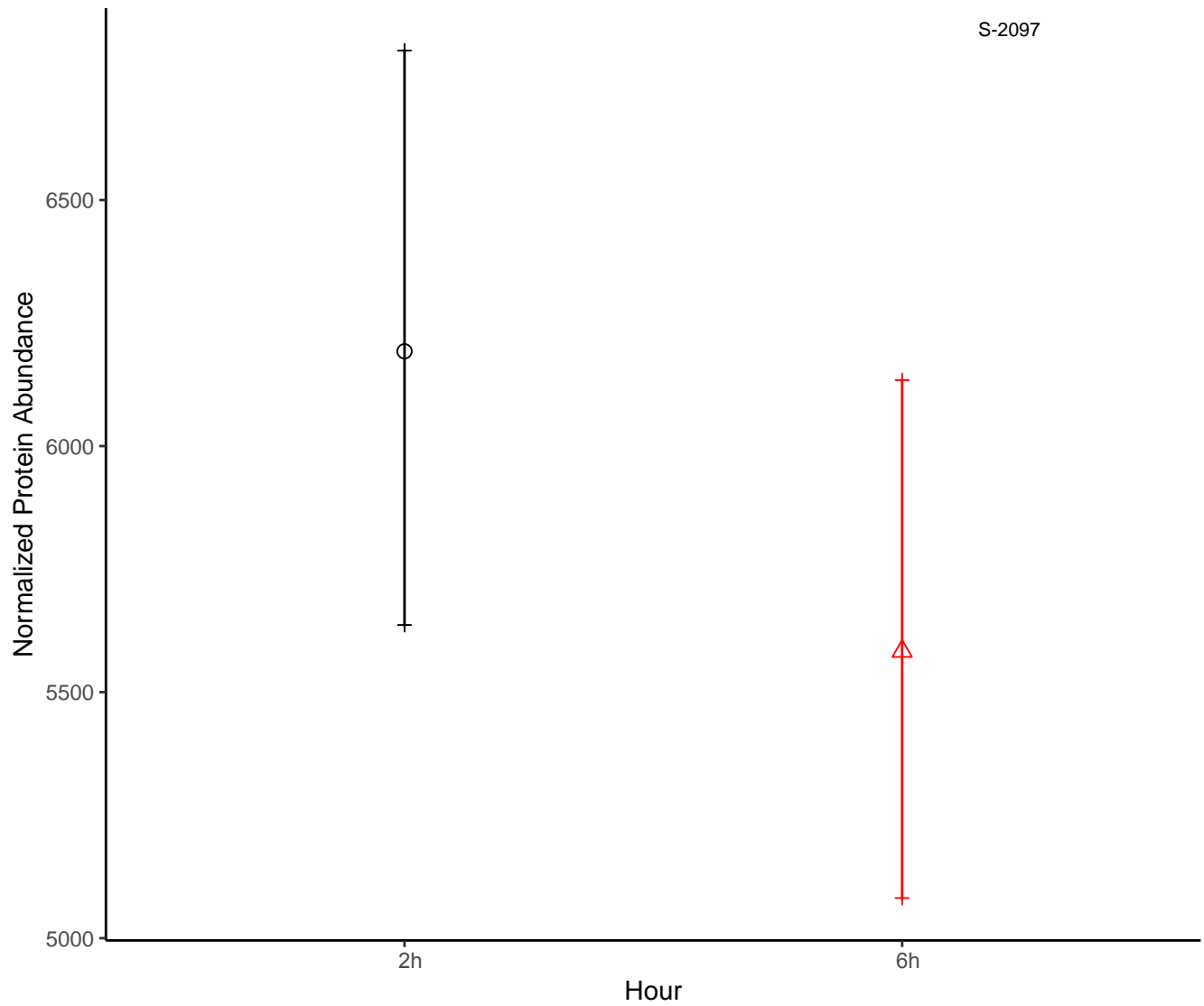
S-2096





# DTD\_STAAM

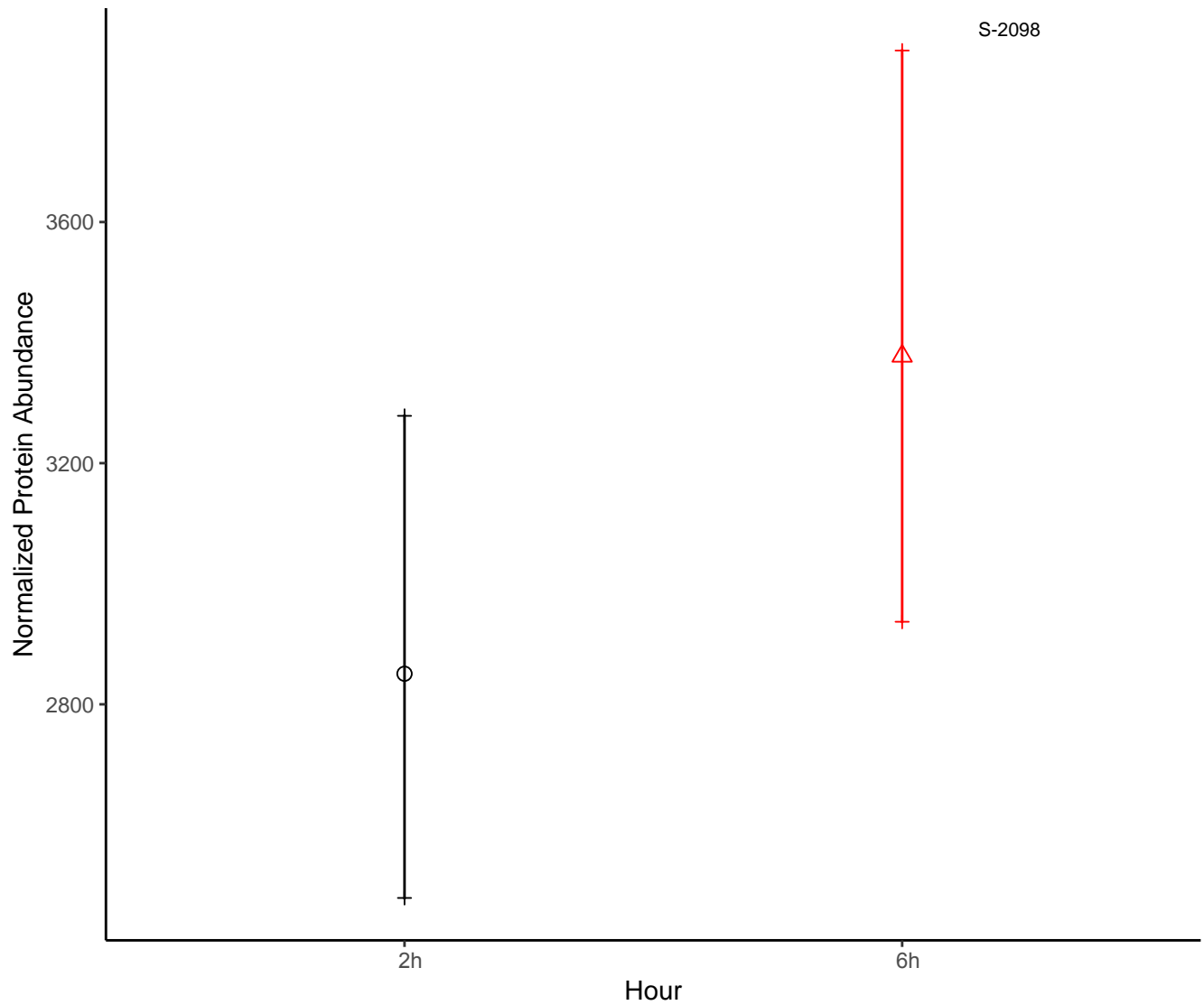
S-2097



⊕ 2h

△ 6h

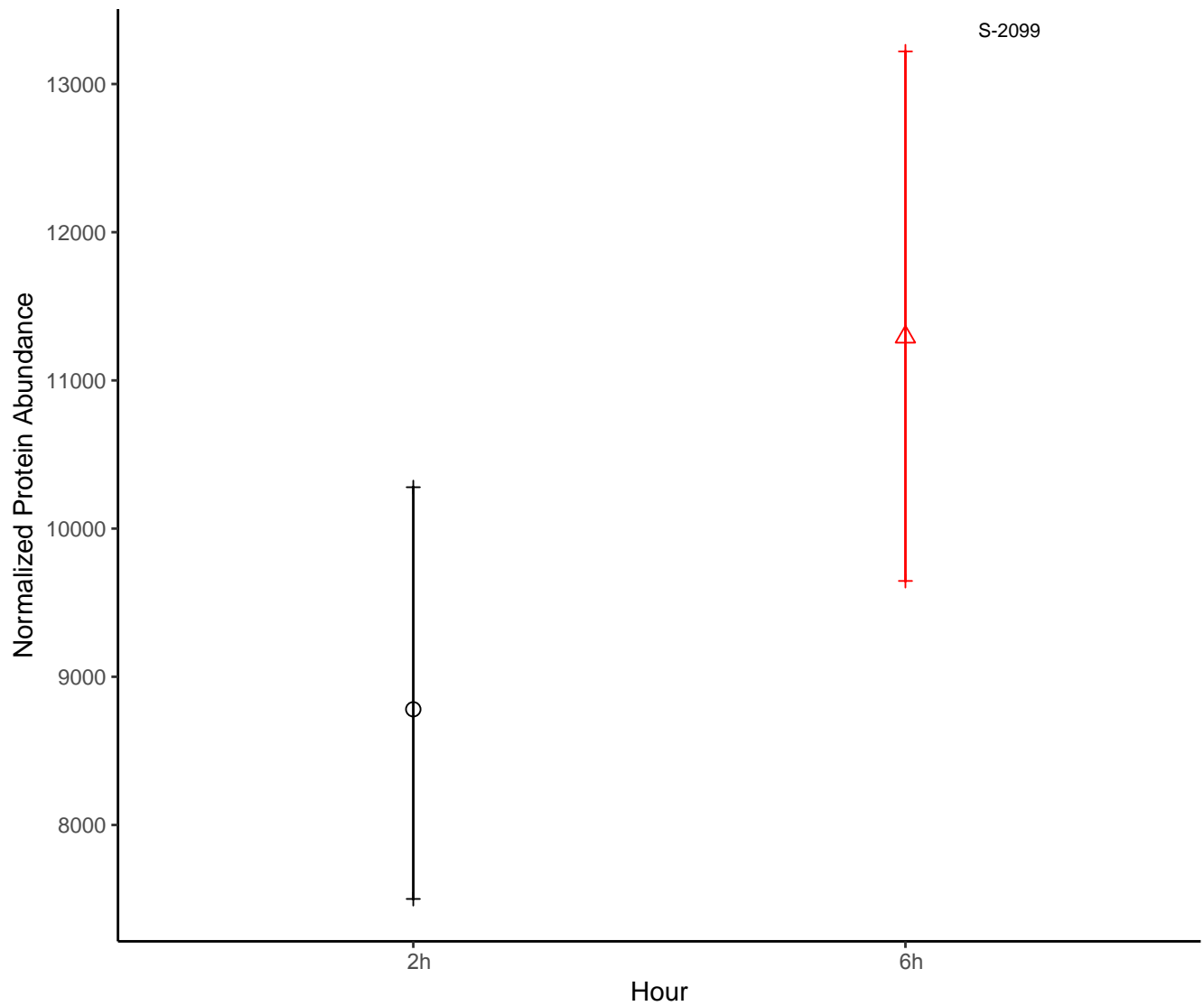
# DYR\_STAAM



⊕ 2h

△ 6h

# EBPS\_STAAM

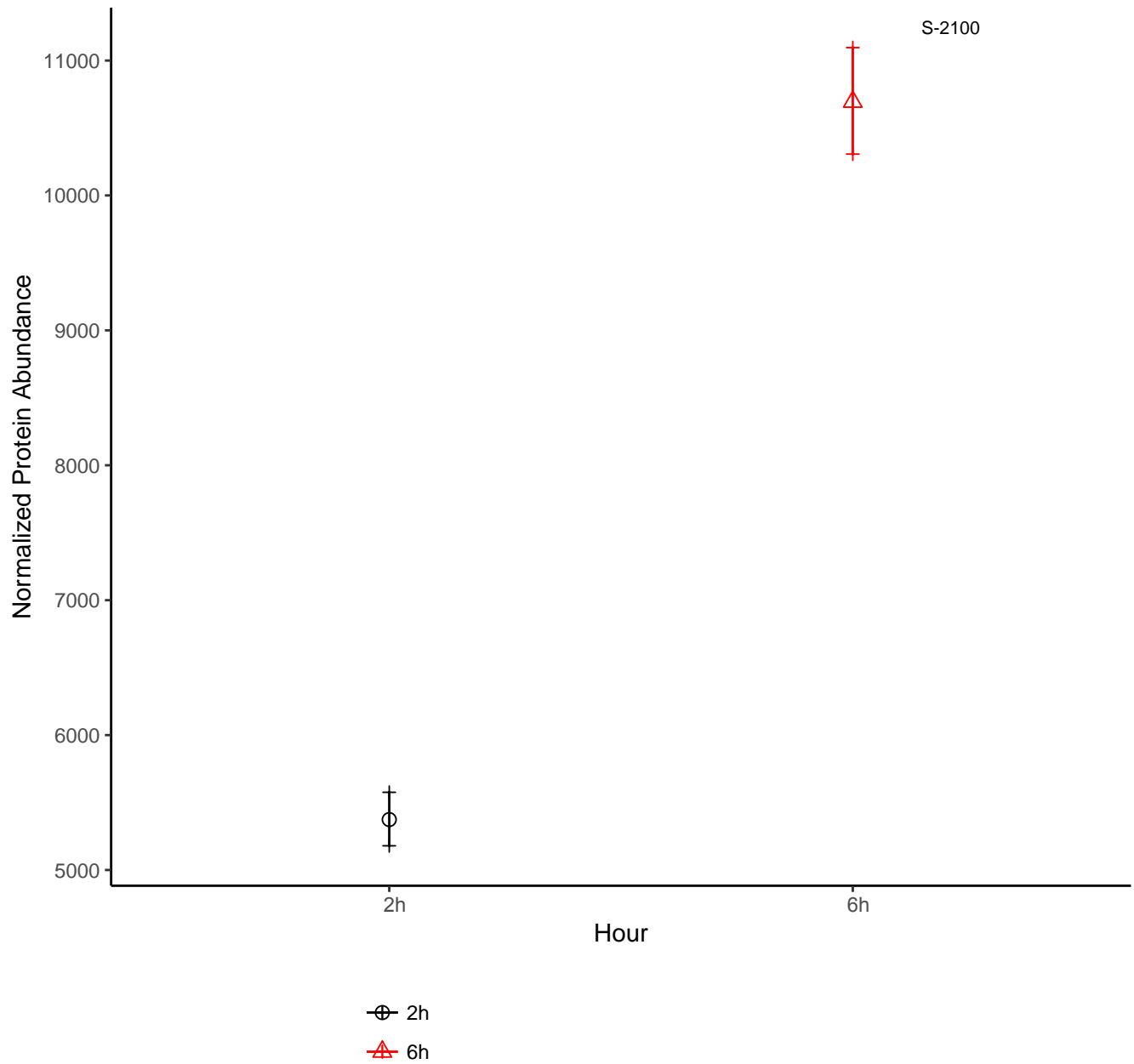


S-2099

⊕ 2h

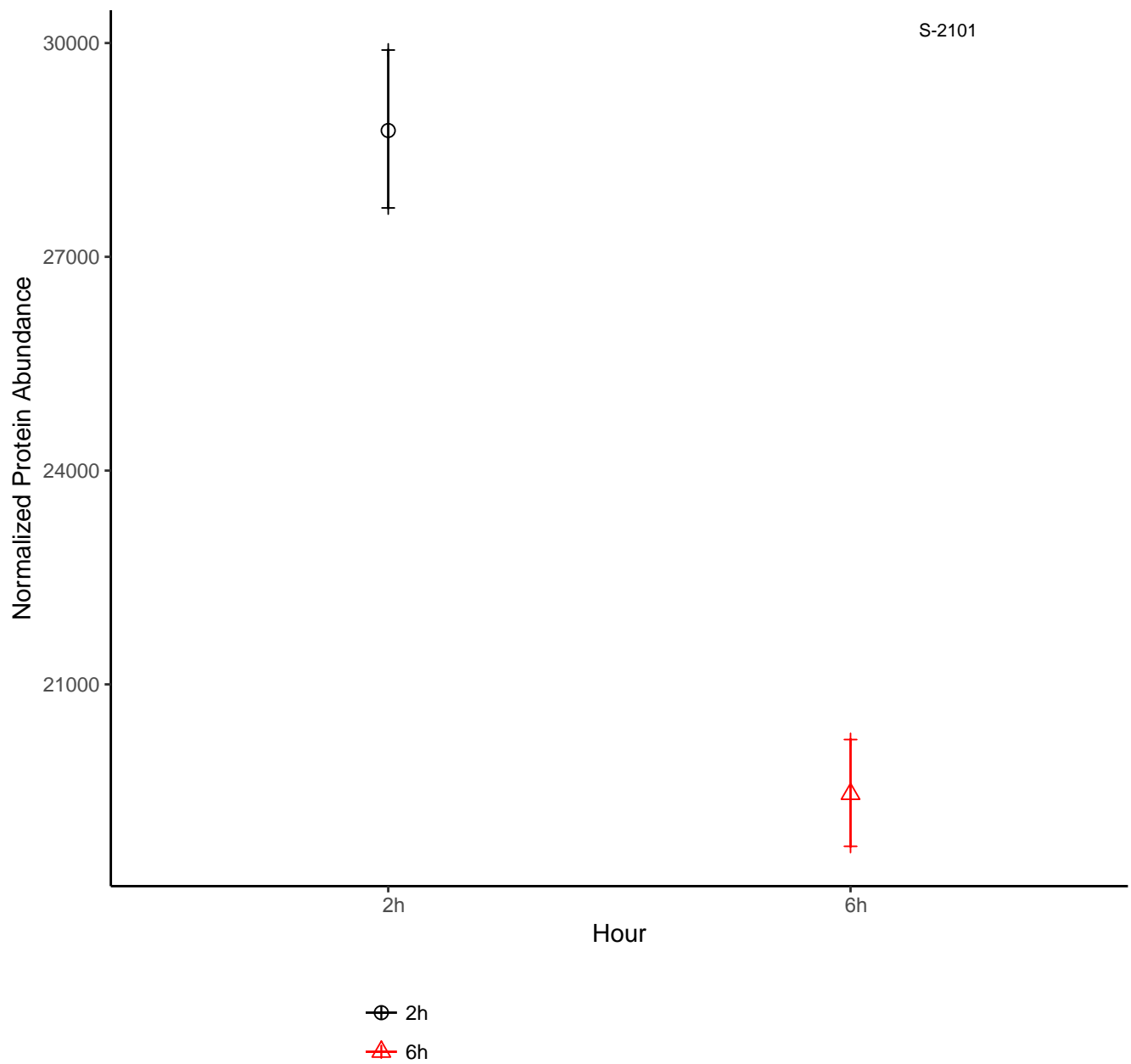
△ 6h

# ECFA1\_STAAM



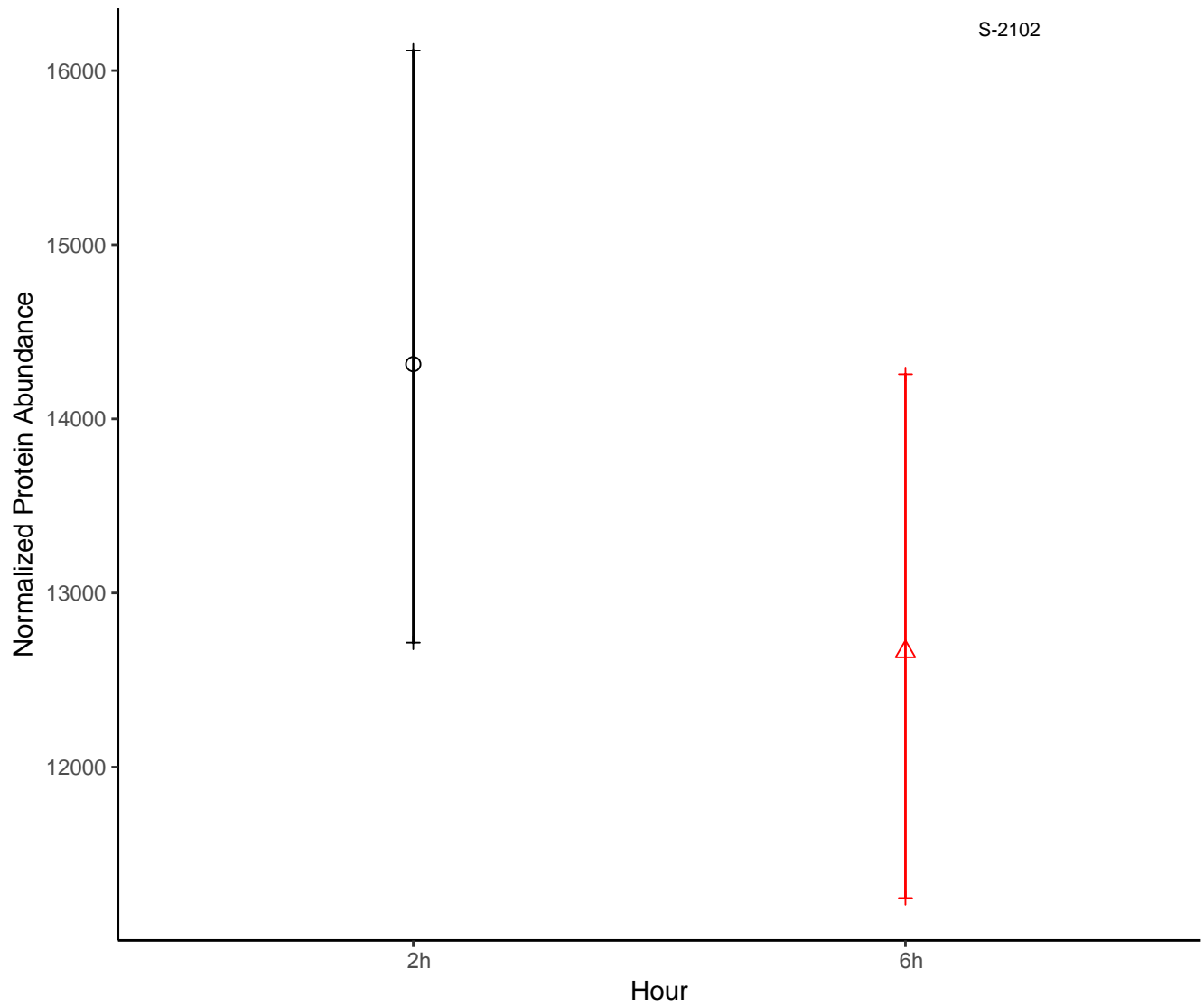
# EFG\_STAAM

S-2101



# EFP\_STAAM

S-2102

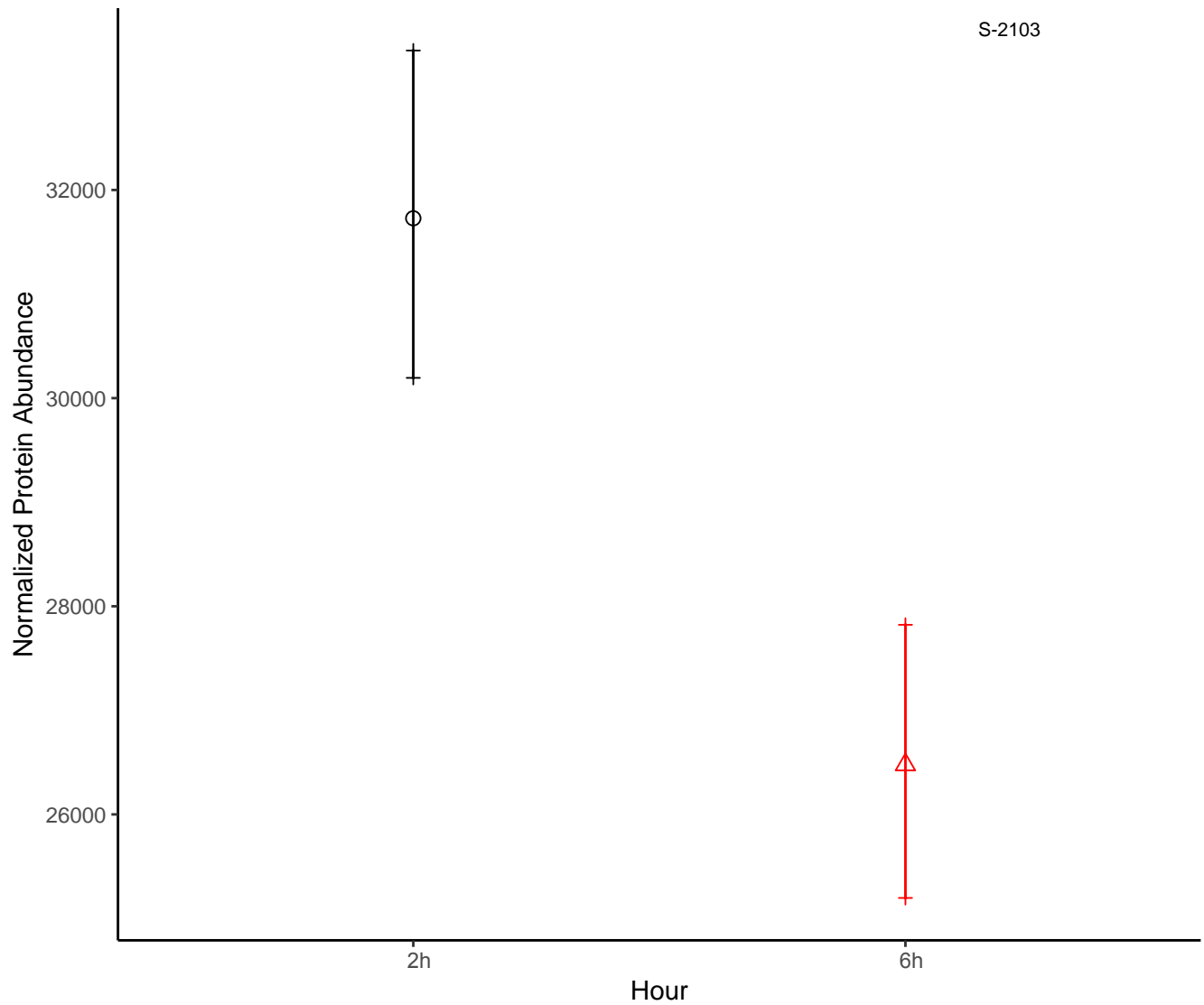


⊕ 2h

△ 6h

# EFTS\_STAAM

S-2103

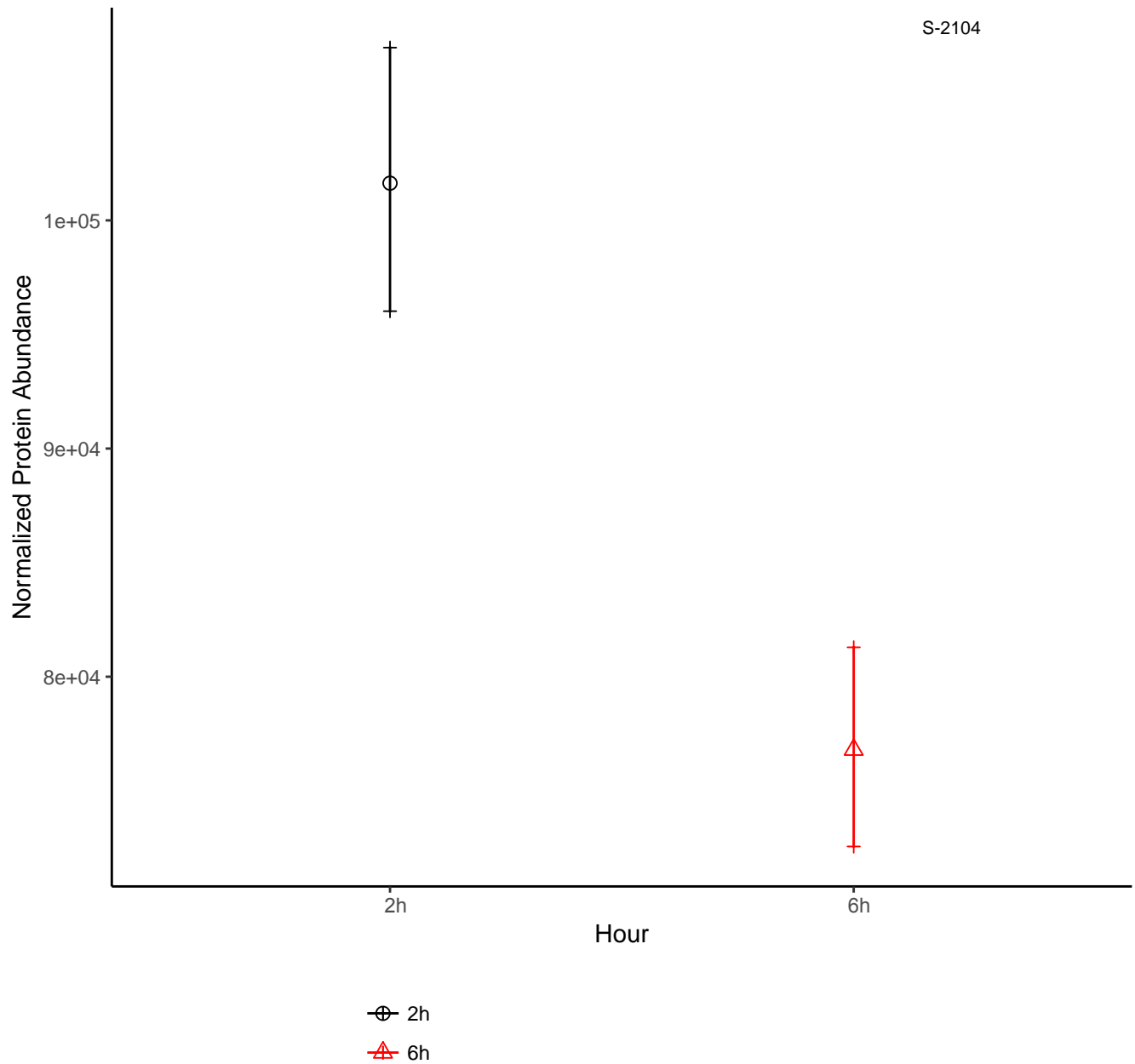


⊕ 2h

△ 6h

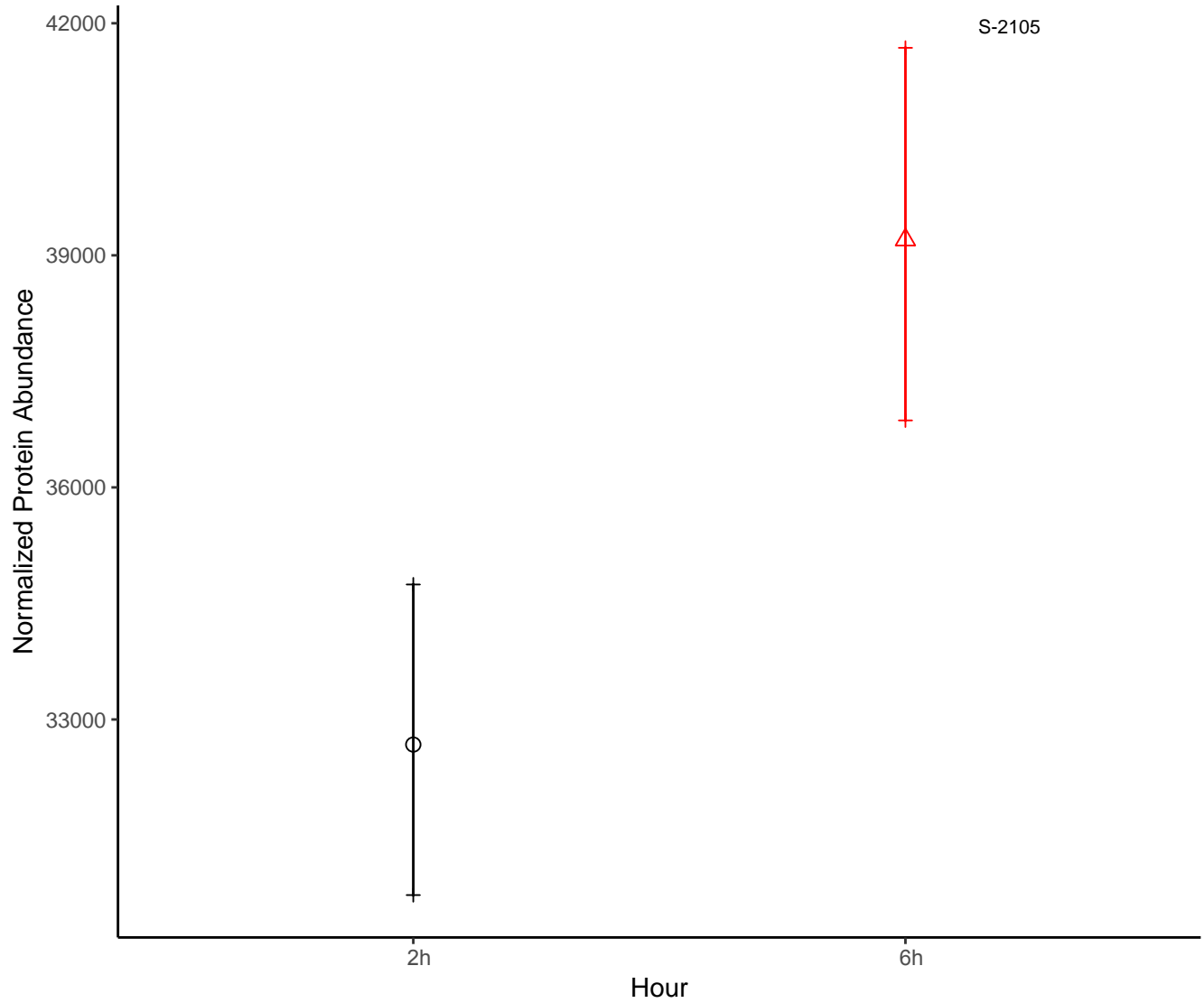
# EFTU\_STAAM

S-2104





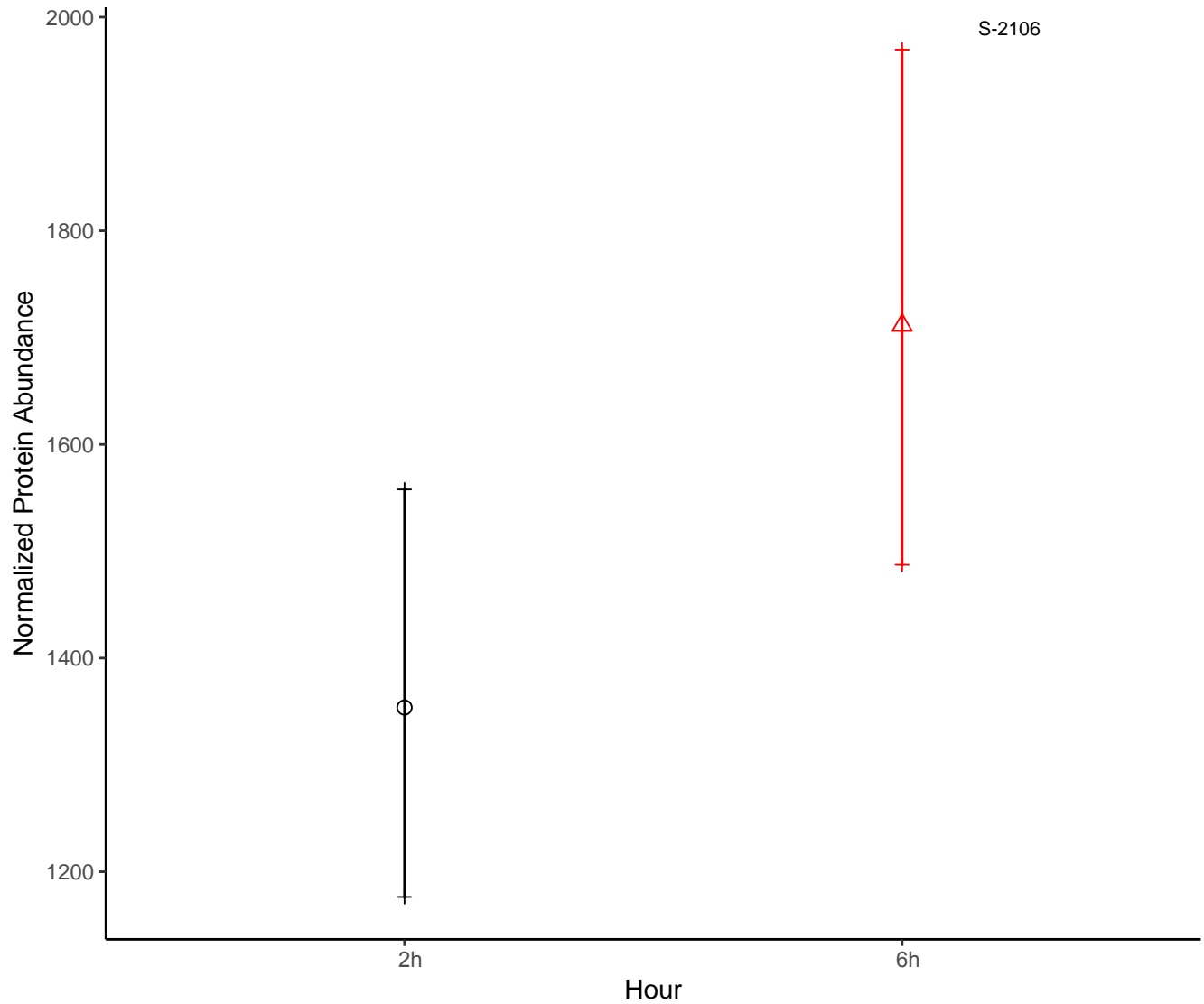
# ENO\_STAAM



⊕ 2h

△ 6h

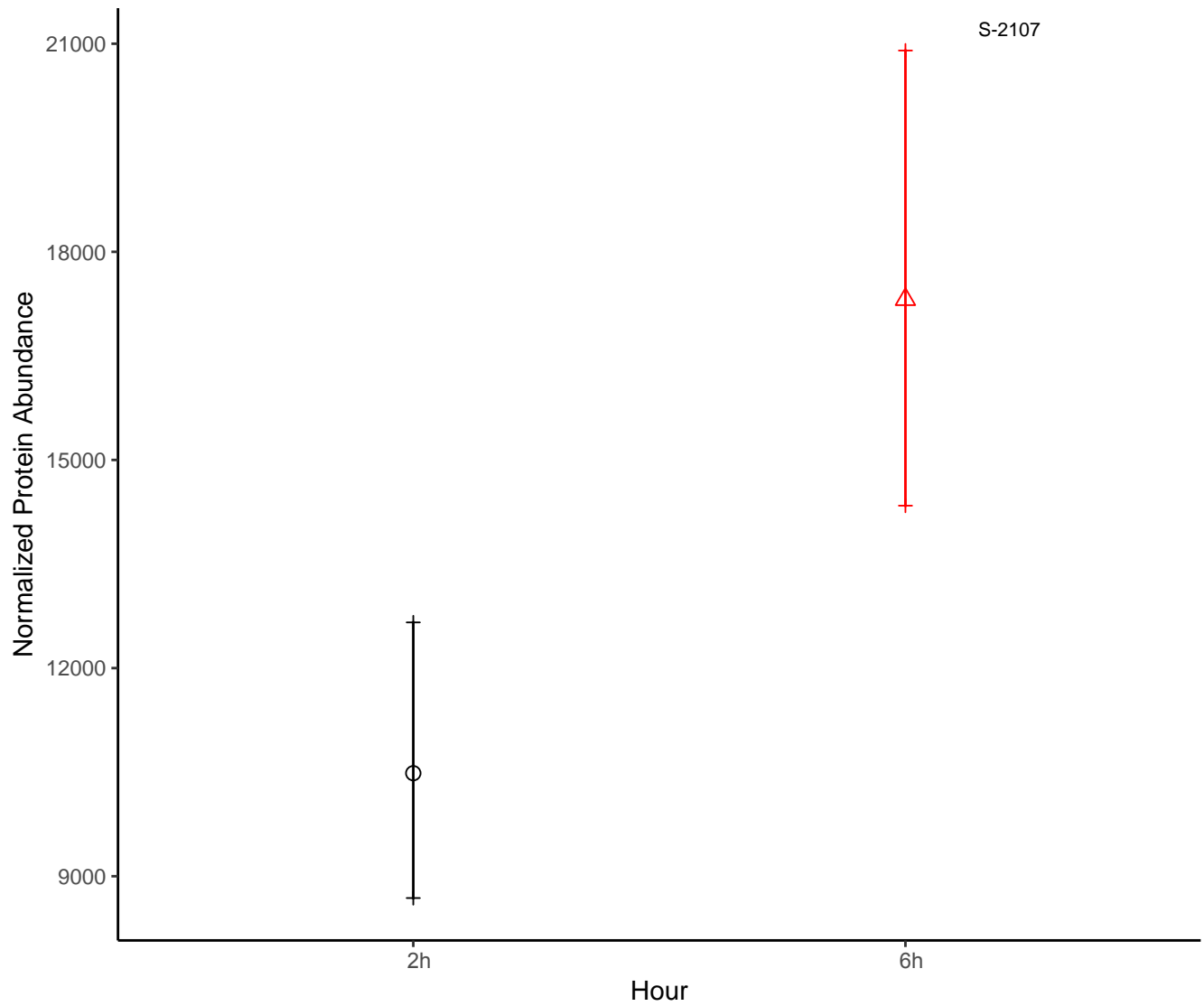
# ERA\_STAAM



⊕ 2h

△ 6h

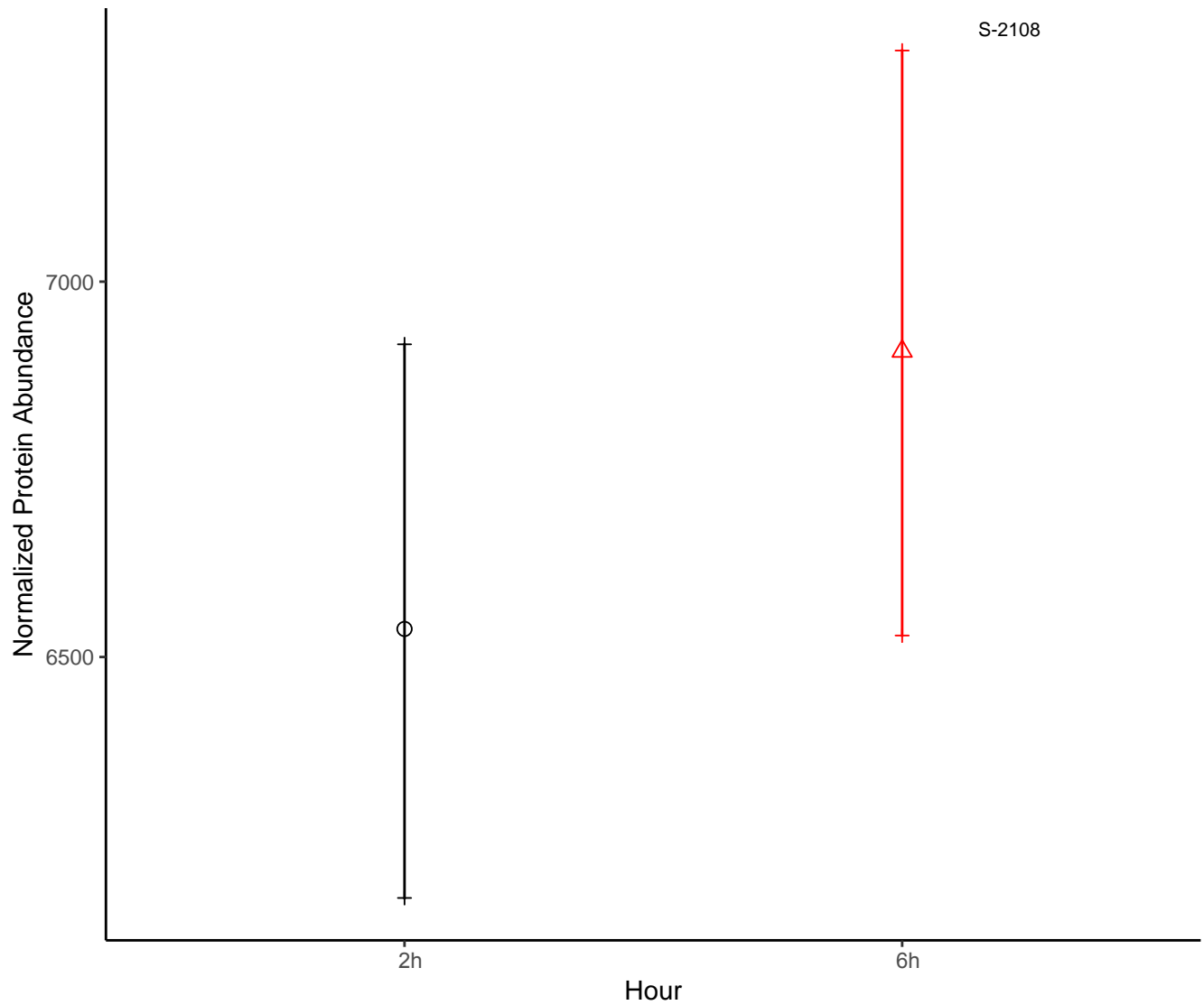
# ERMA\_STAAM



⊕ 2h

△ 6h

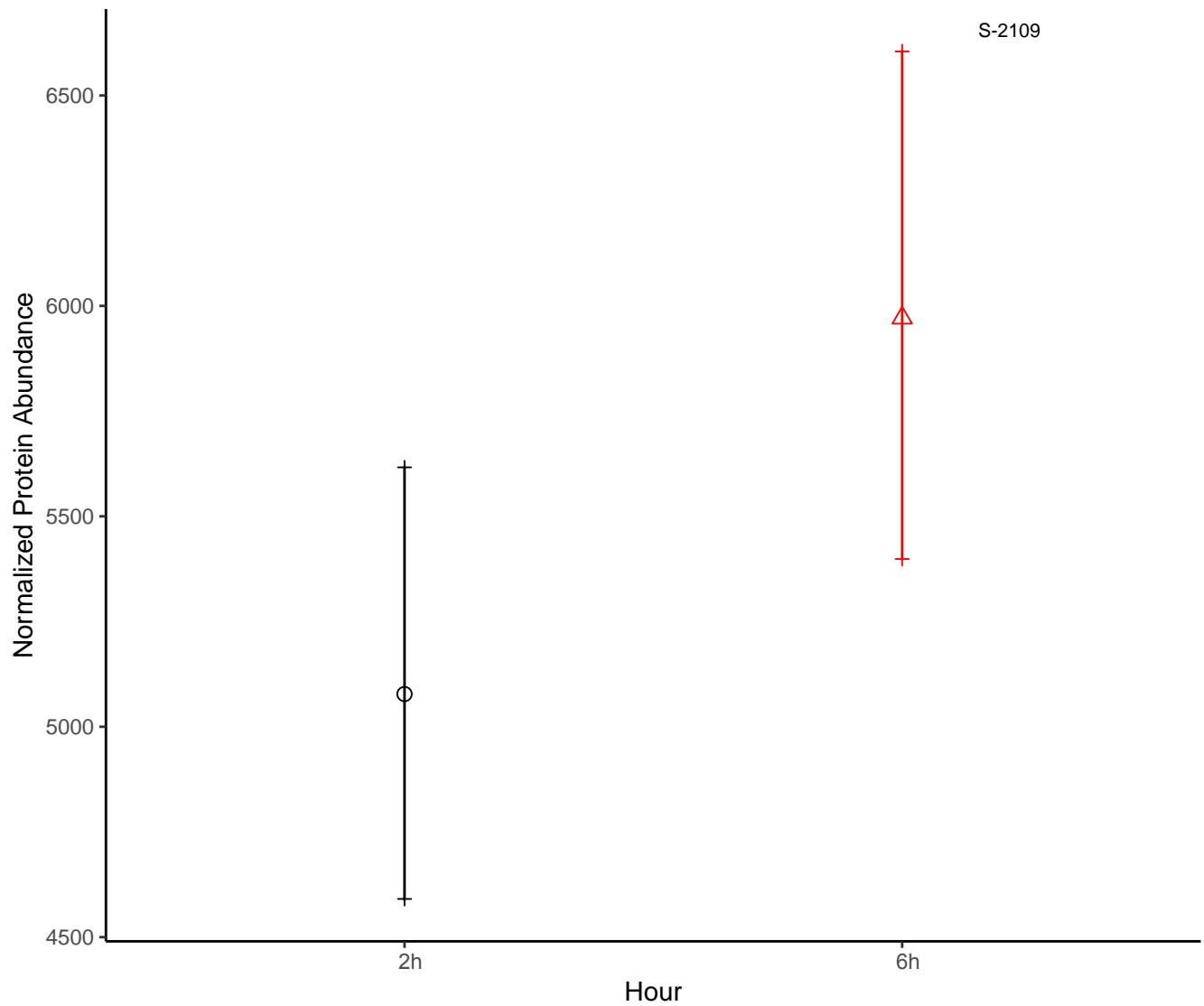
# ESSA\_STAAM



⊕ 2h

△ 6h

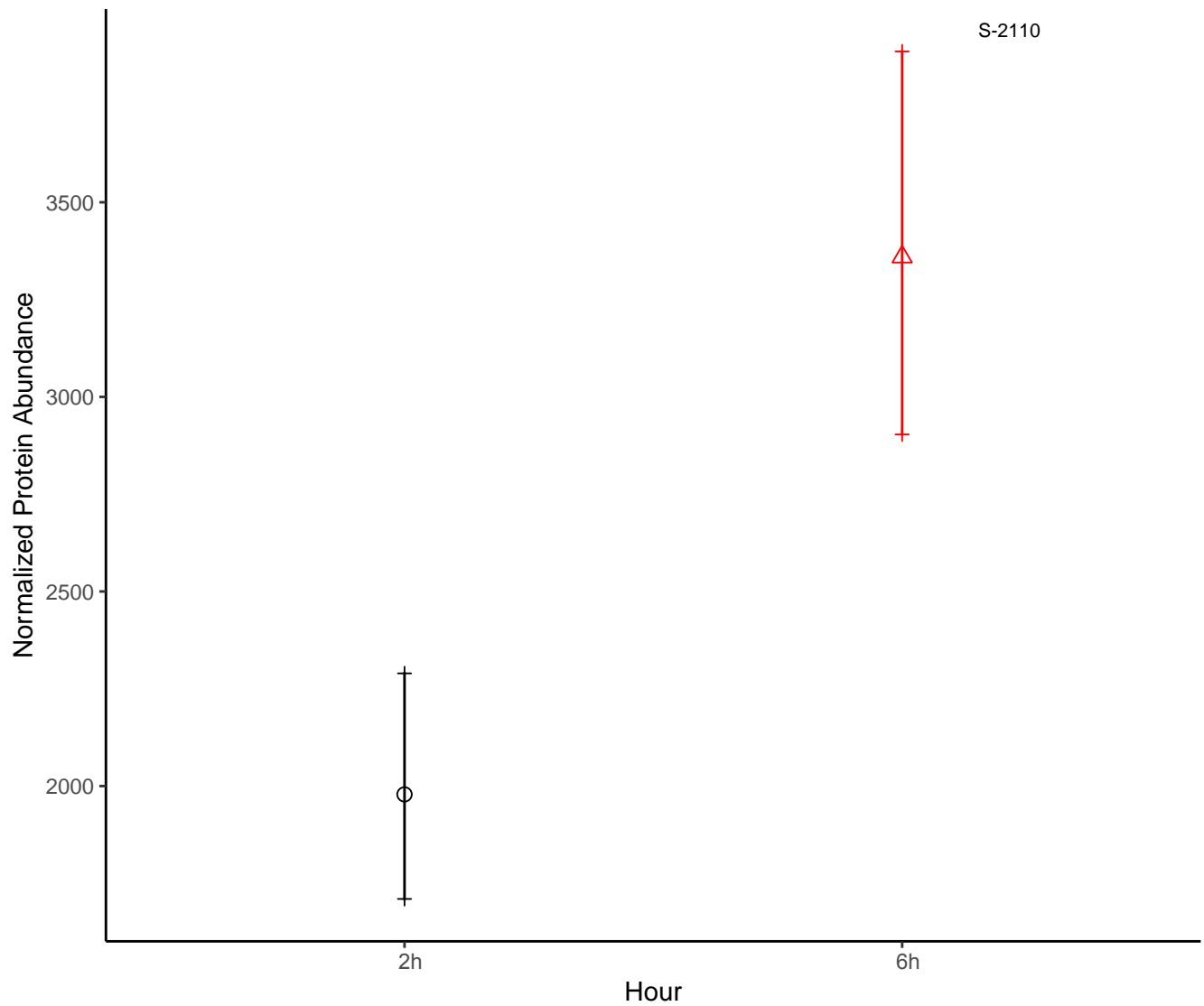
# ESXA\_STAAM



⊕ 2h

△ 6h

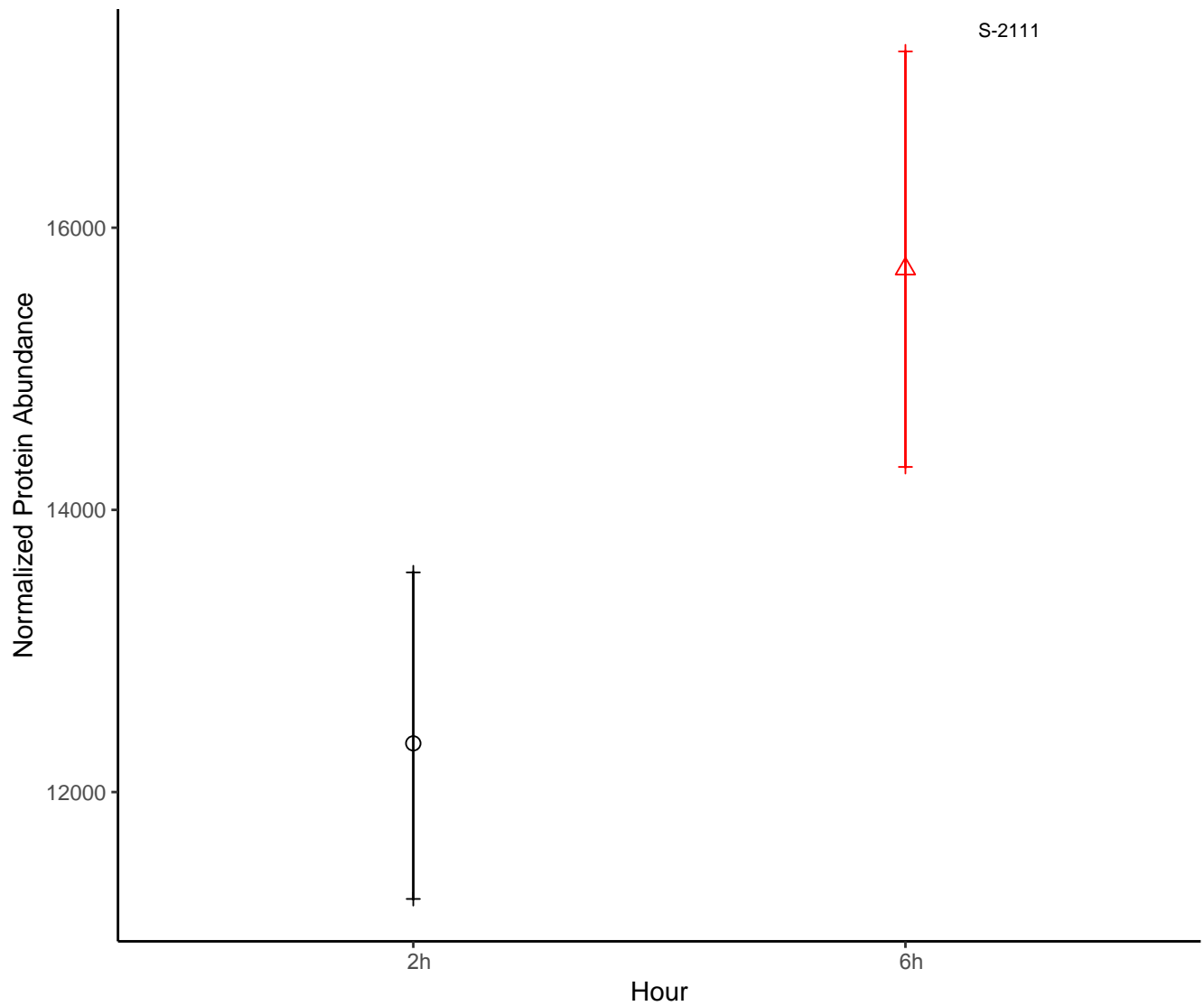
# EX7L\_STAAM



⊕ 2h

△ 6h

# EZRA\_STAAM

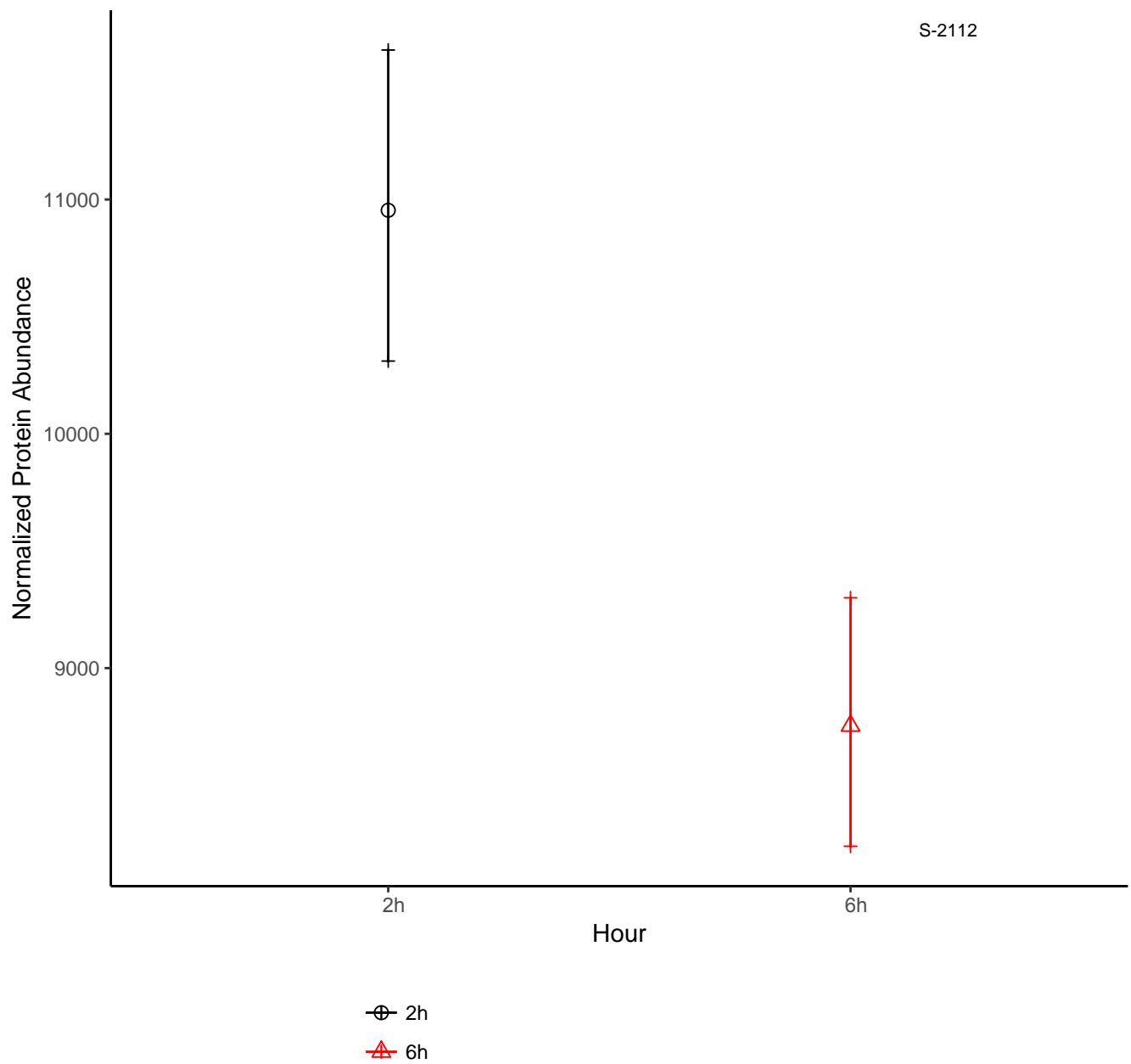


⊕ 2h

△ 6h

# FABD\_STAAM

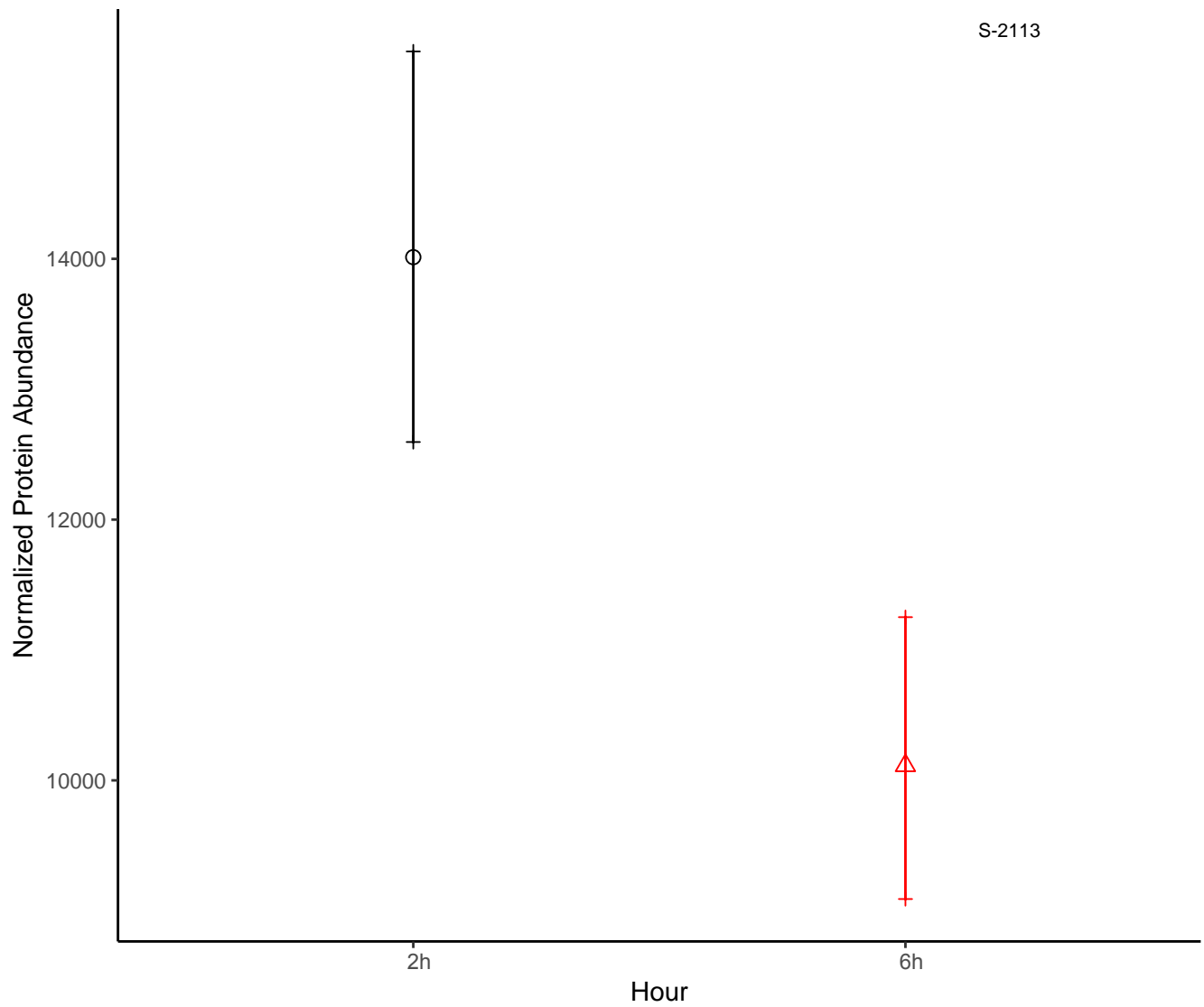
S-2112





# FABF\_STAAM

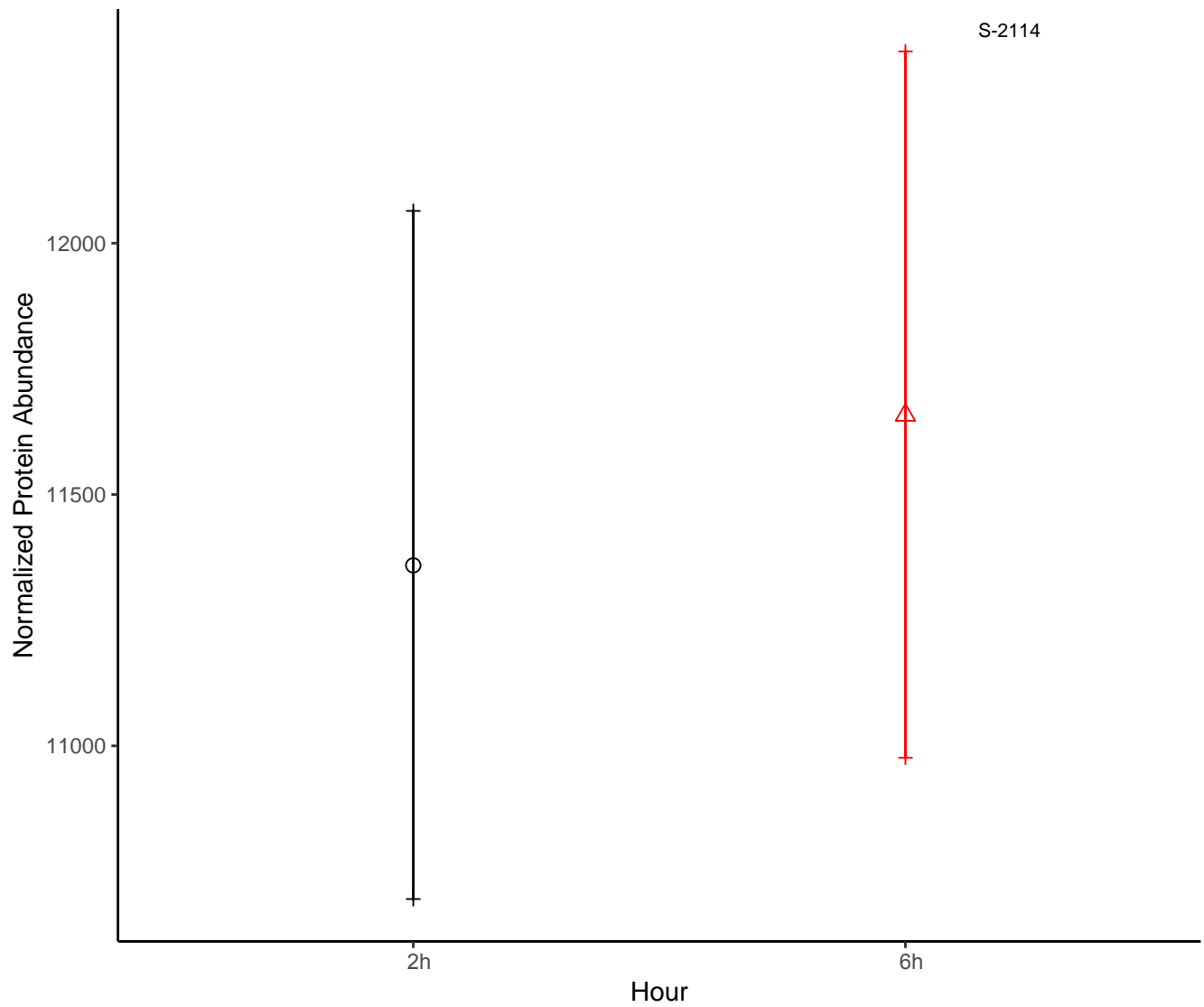
S-2113



⊕ 2h

△ 6h

# FABG\_STAAM

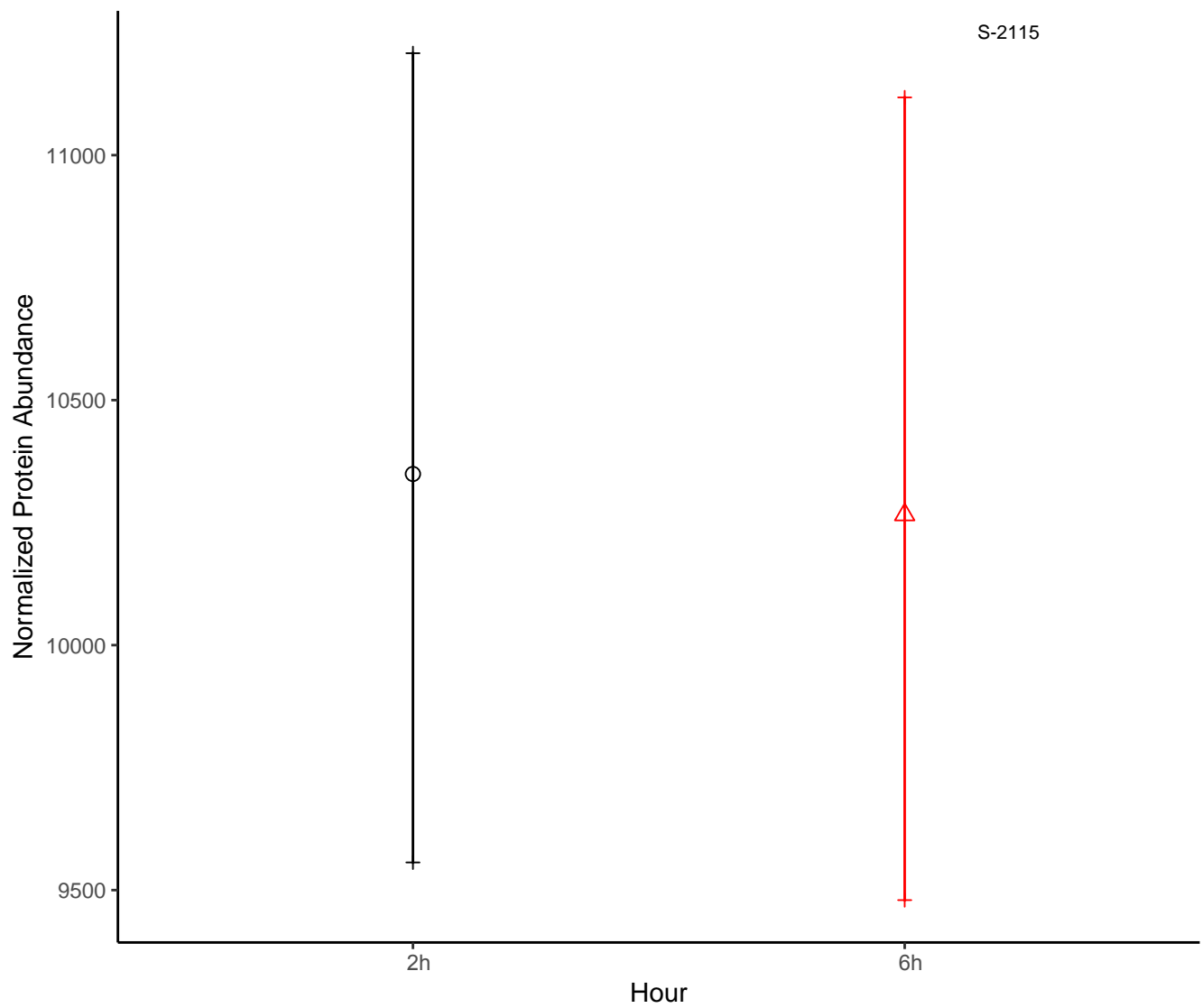


⊕ 2h

△ 6h

# FABH\_STAAM

S-2115

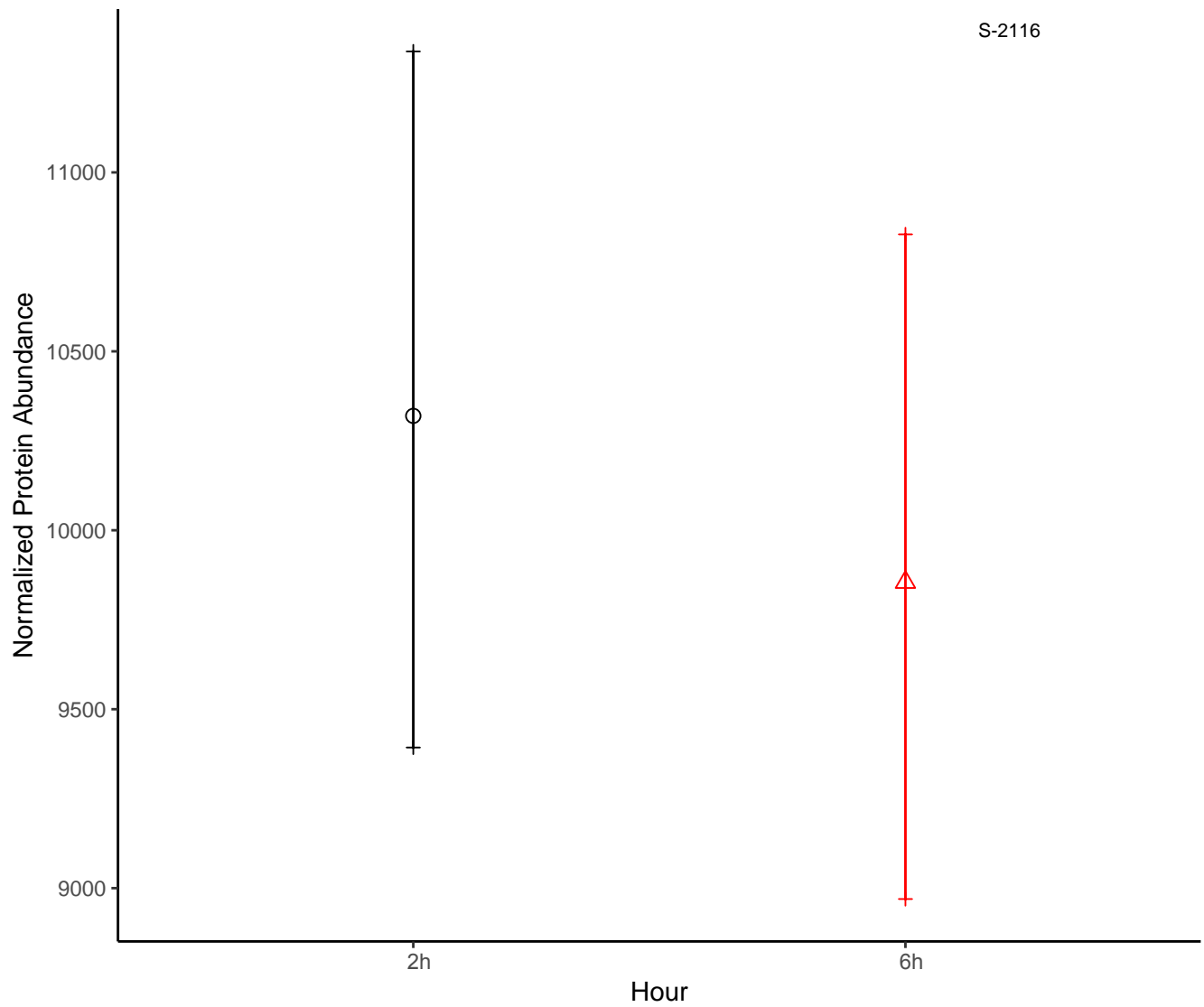


⊕ 2h

△ 6h

# FABZ\_STAAM

S-2116

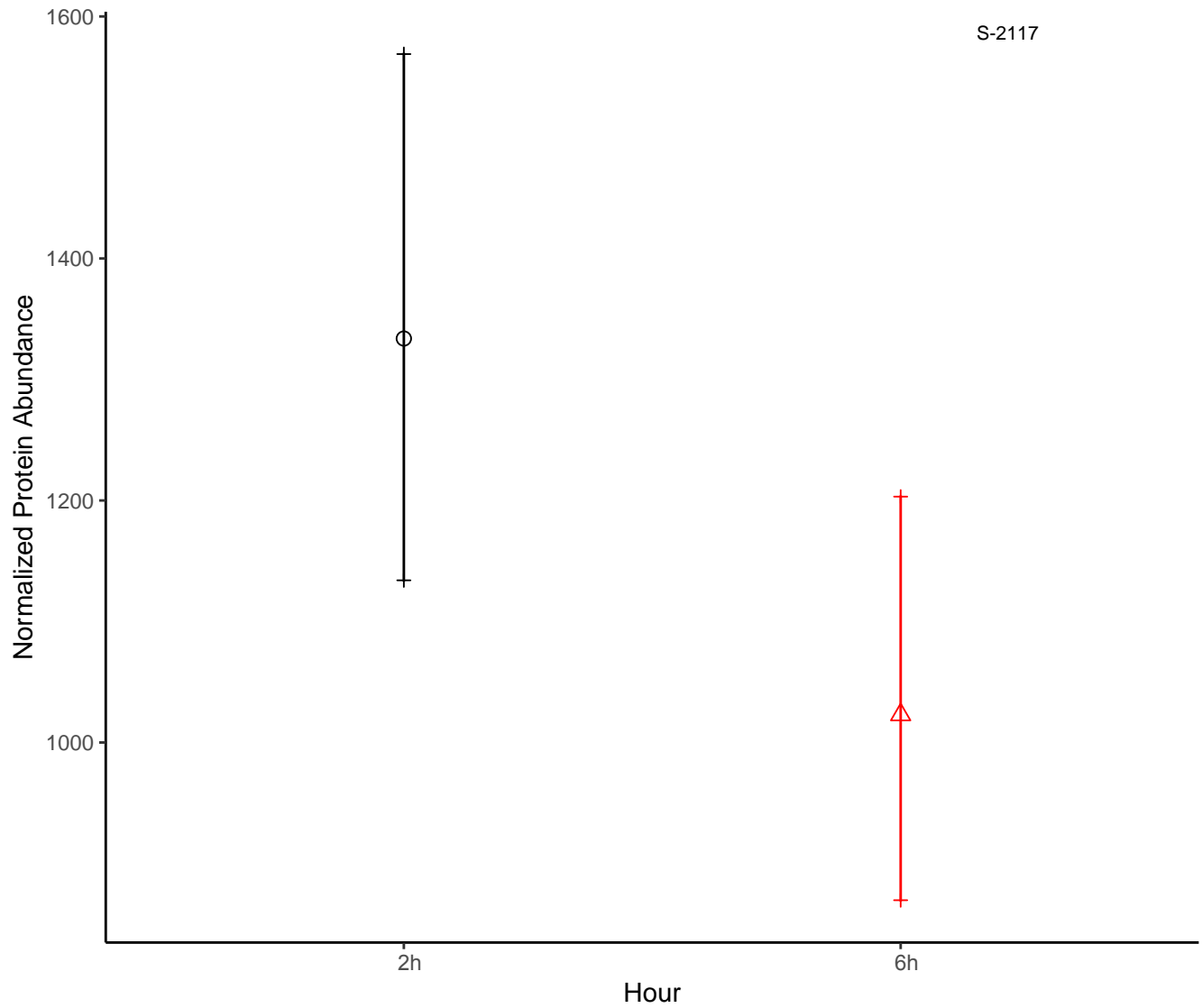


⊕ 2h

△ 6h

# FEMA\_STAAM

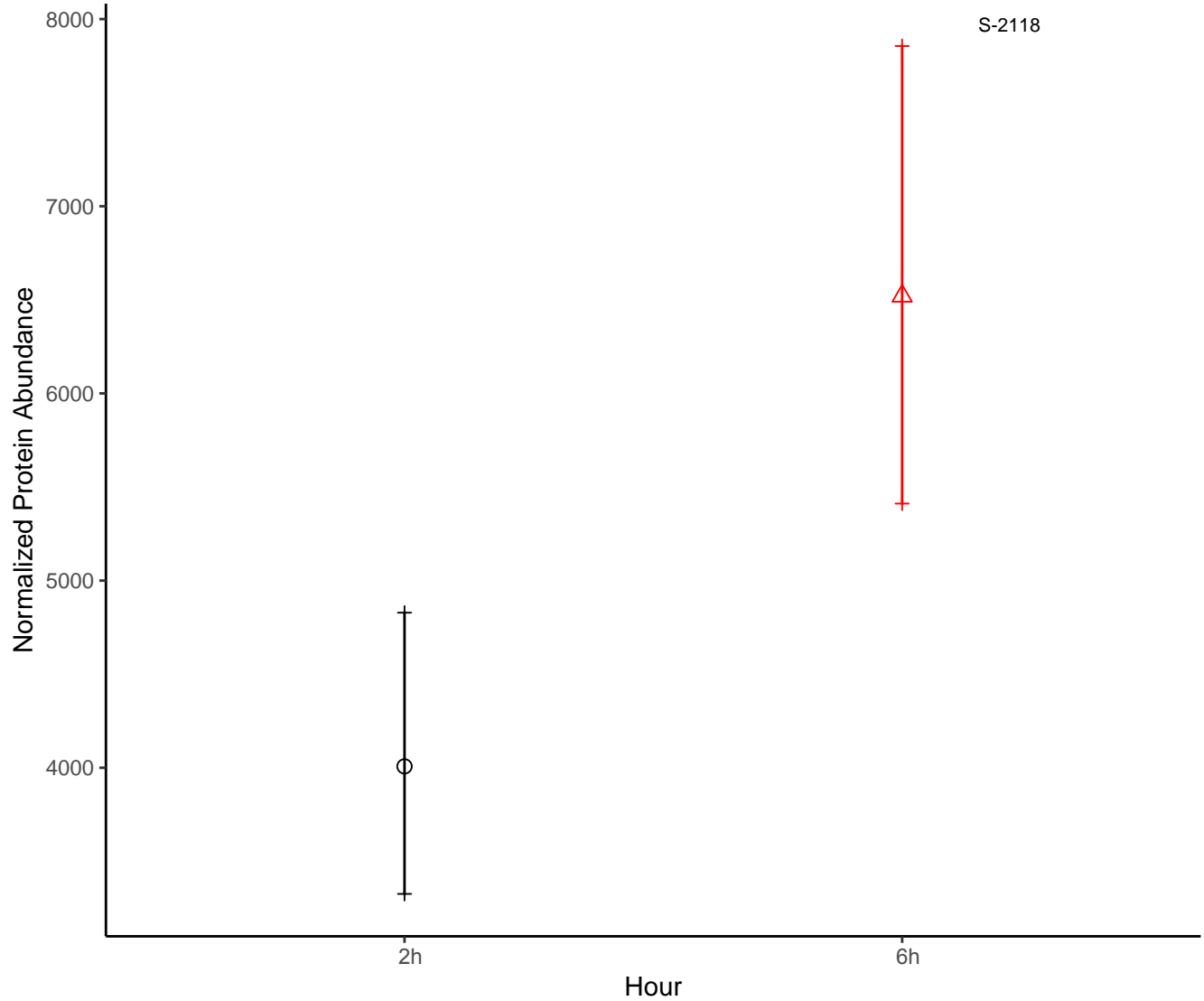
S-2117



⊕ 2h

△ 6h

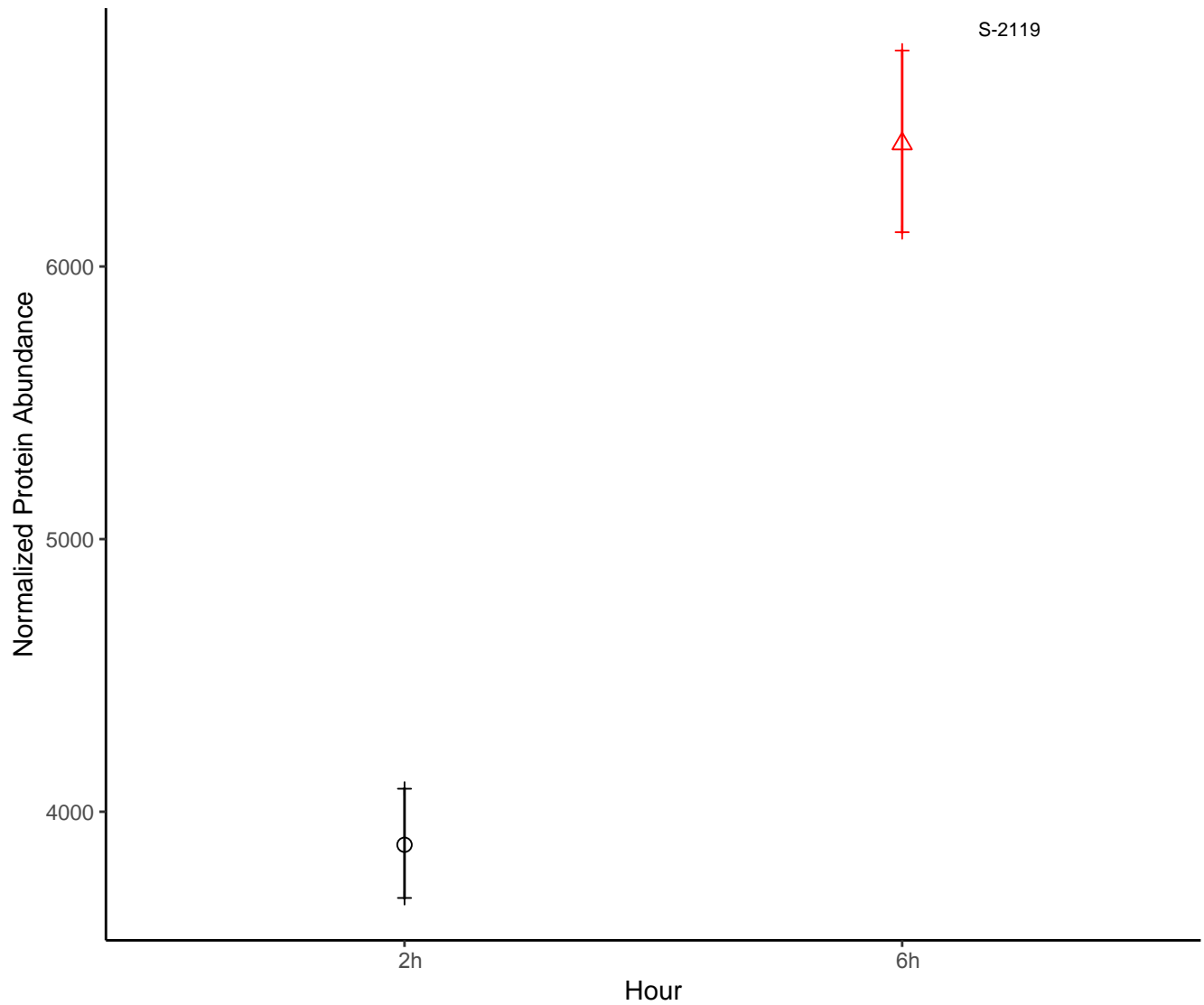
# FEMB\_STAAM



⊕ 2h

△ 6h

# FEMX\_STAAM

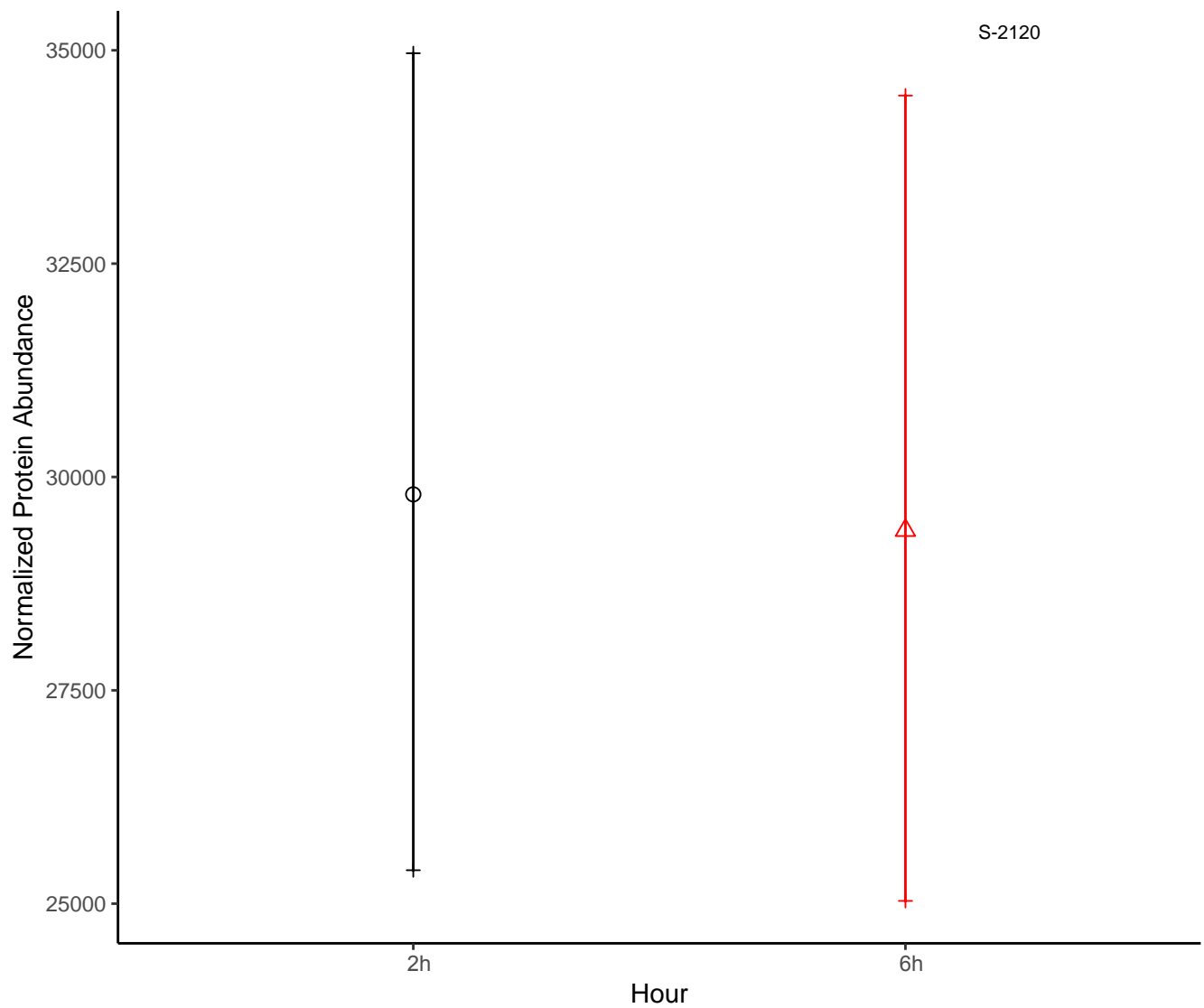


⊕ 2h

△ 6h

# FENR\_STAAM

S-2120



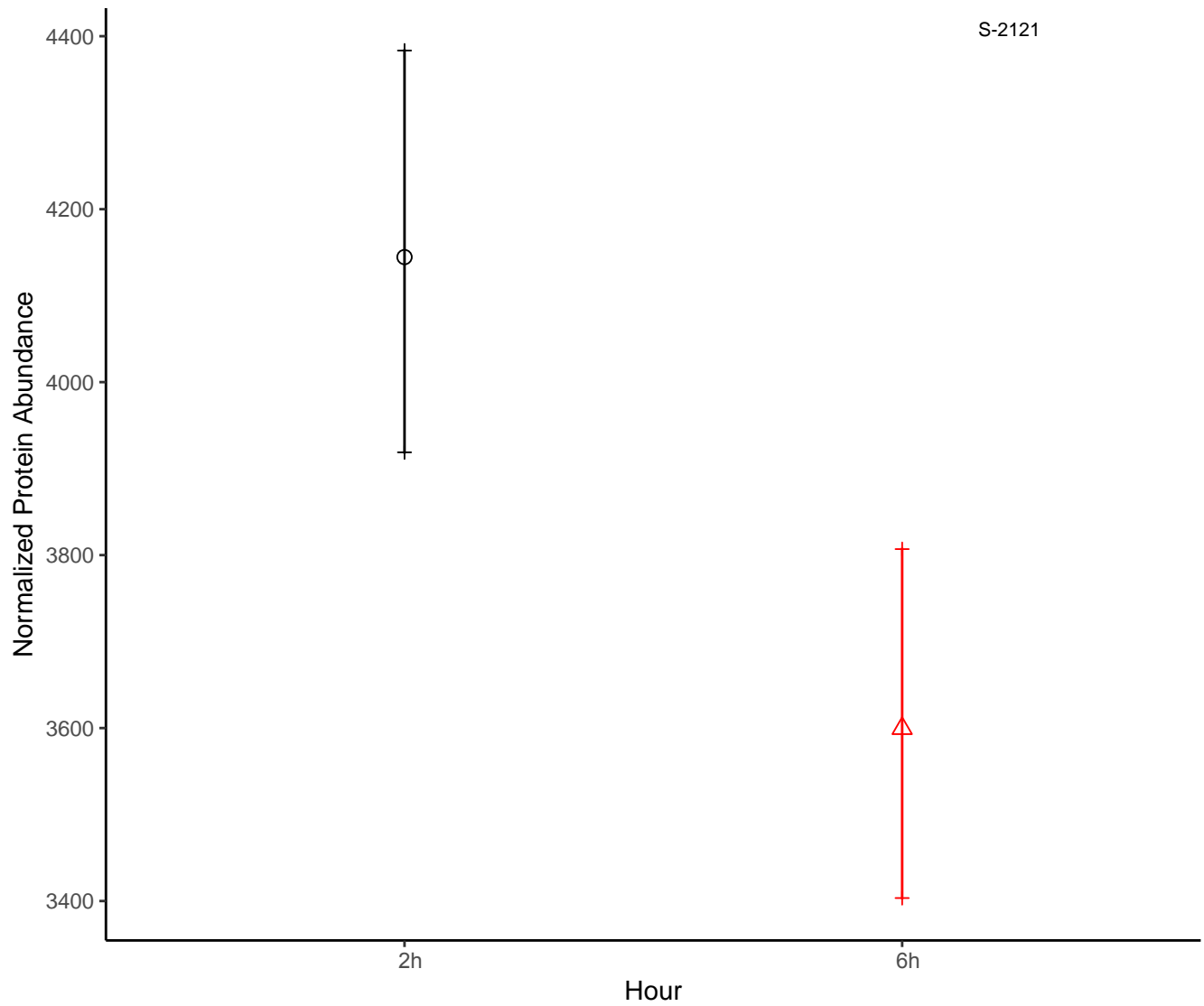
⊕ 2h

△ 6h



# FLIPR\_STAAM

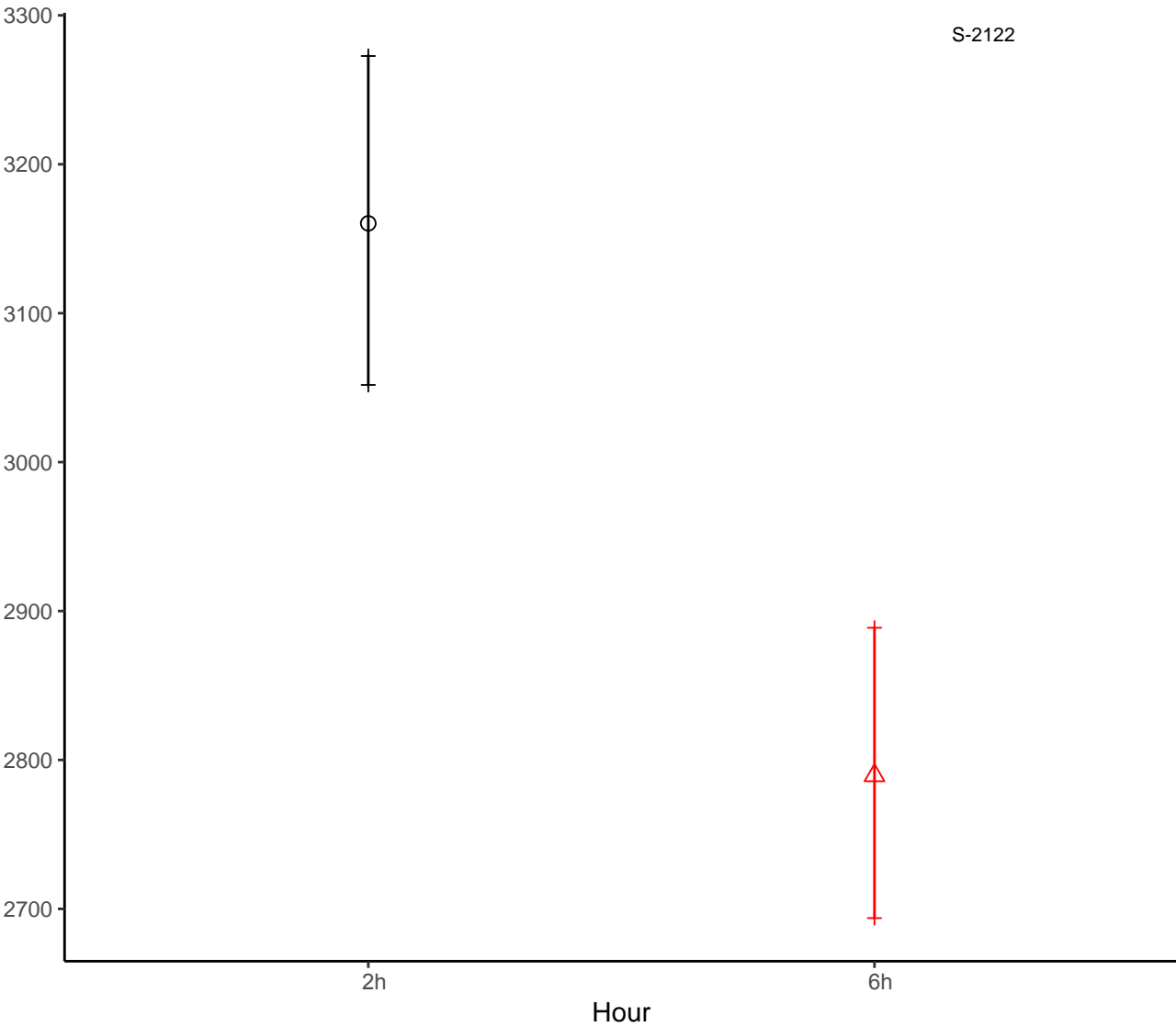
S-2121



⊕ 2h

△ 6h

# FMT\_STAAM

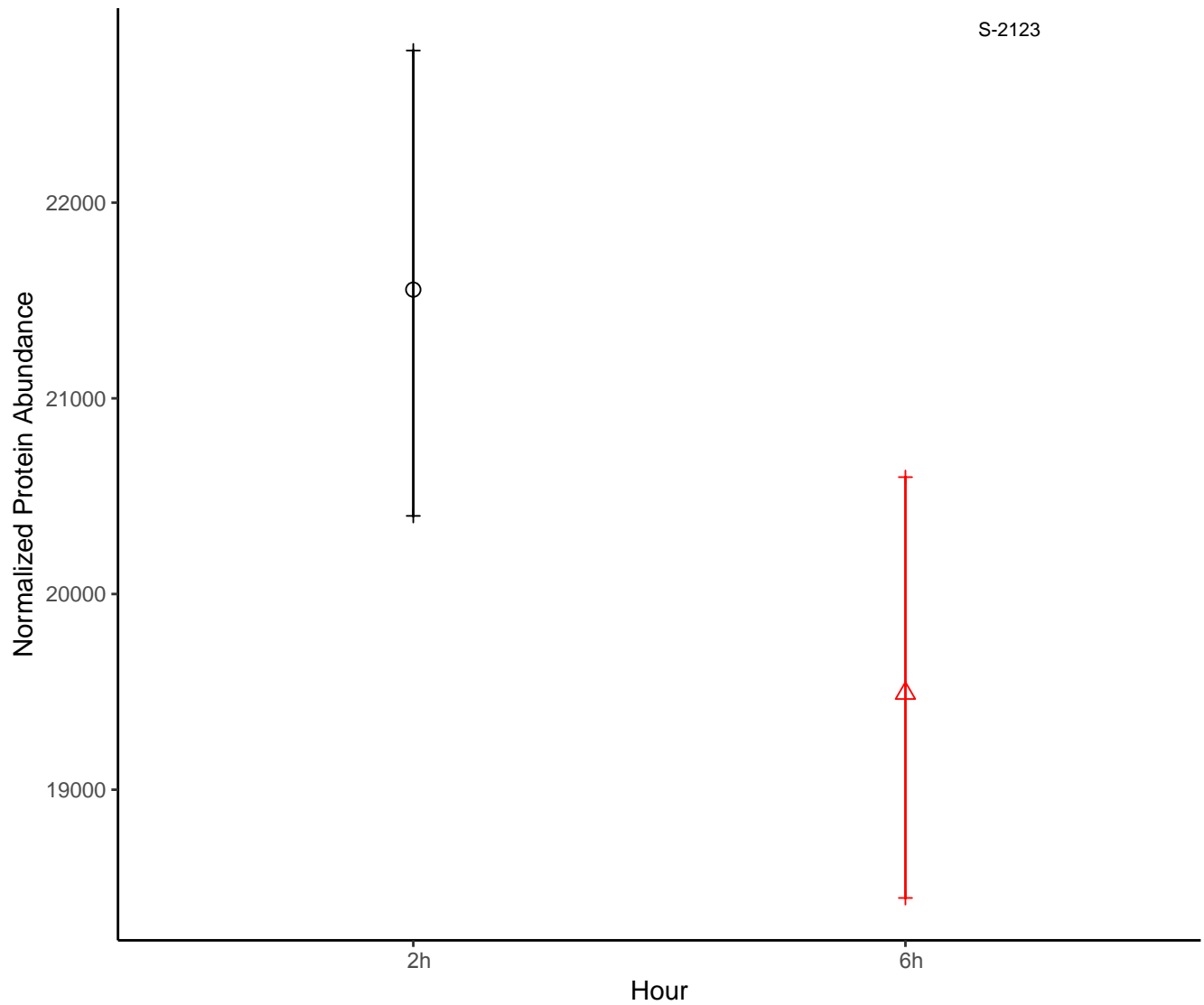


⊕ 2h

△ 6h

# FMTA\_STAAM

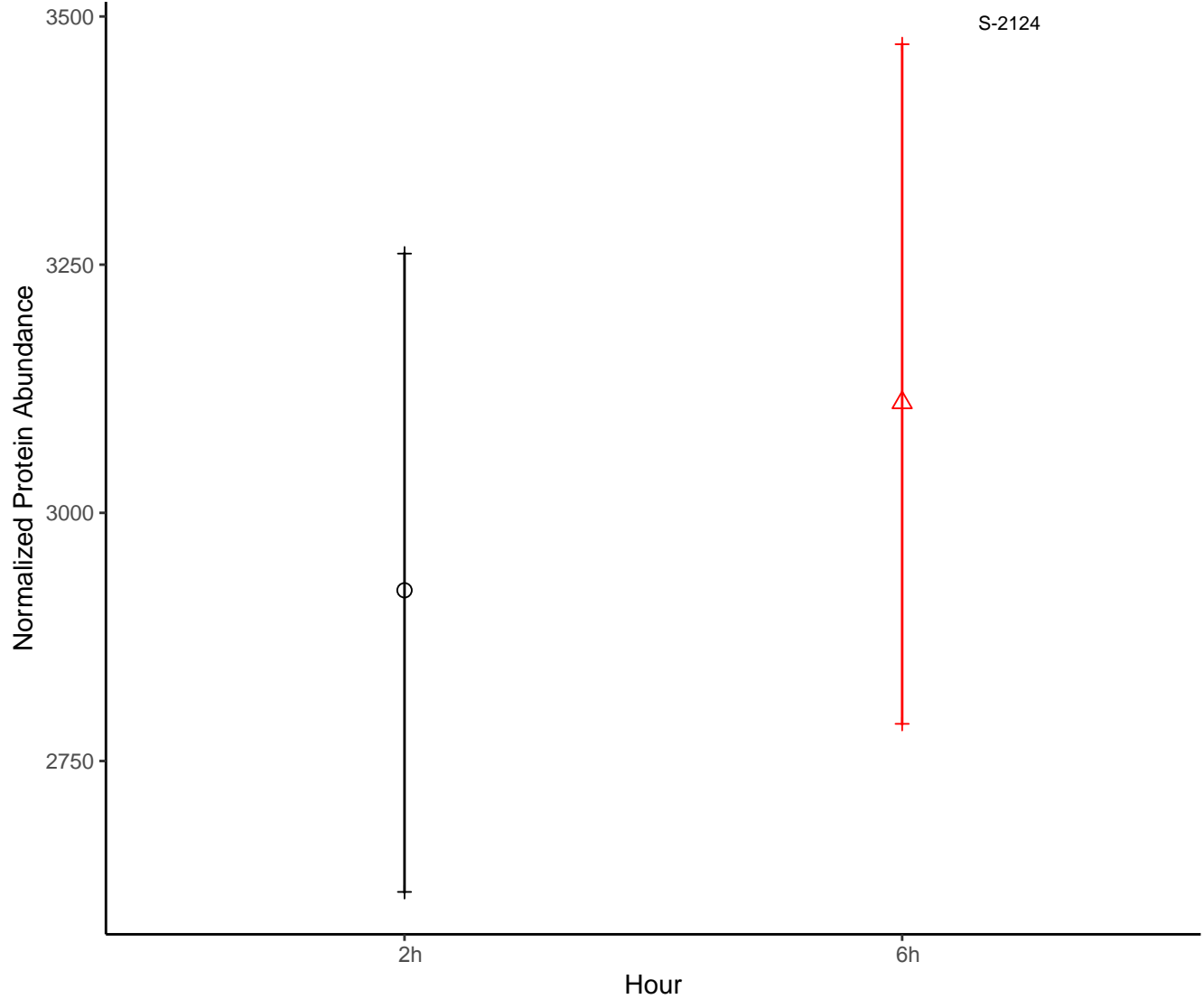
S-2123



⊕ 2h

△ 6h

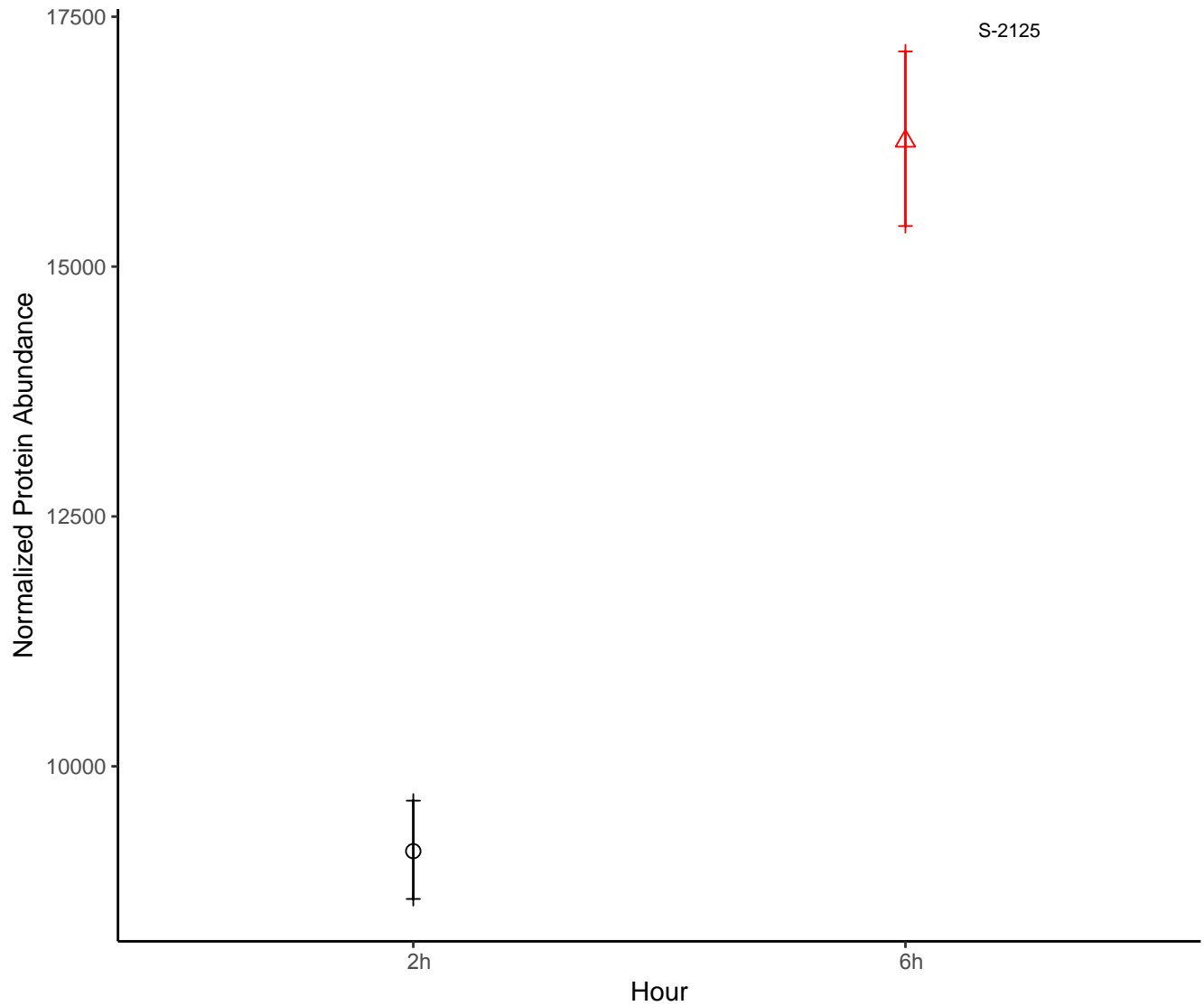
# FOLB\_STAAM



⊕ 2h

△ 6h

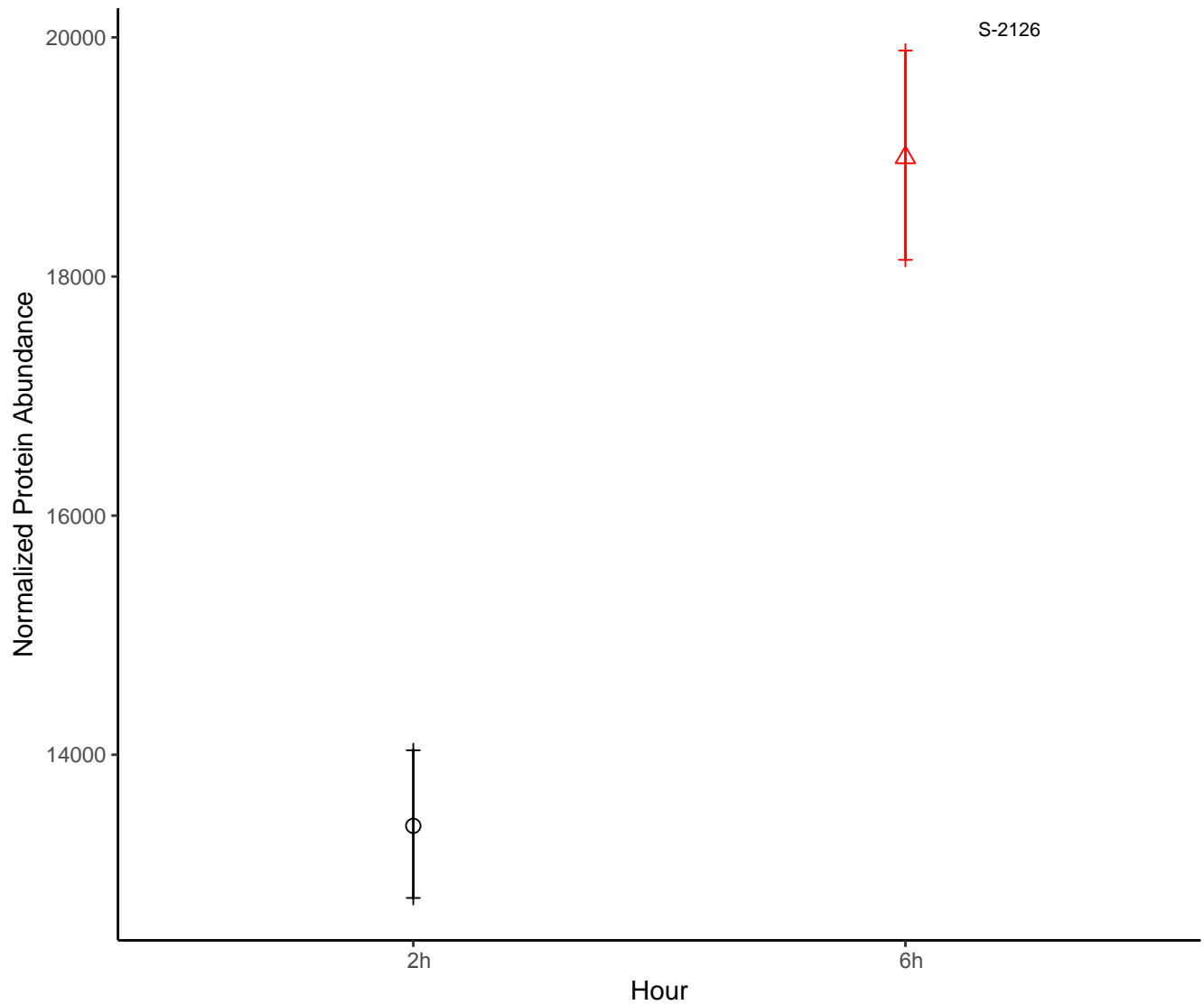
# FOLD\_STAAM



⊕ 2h

△ 6h

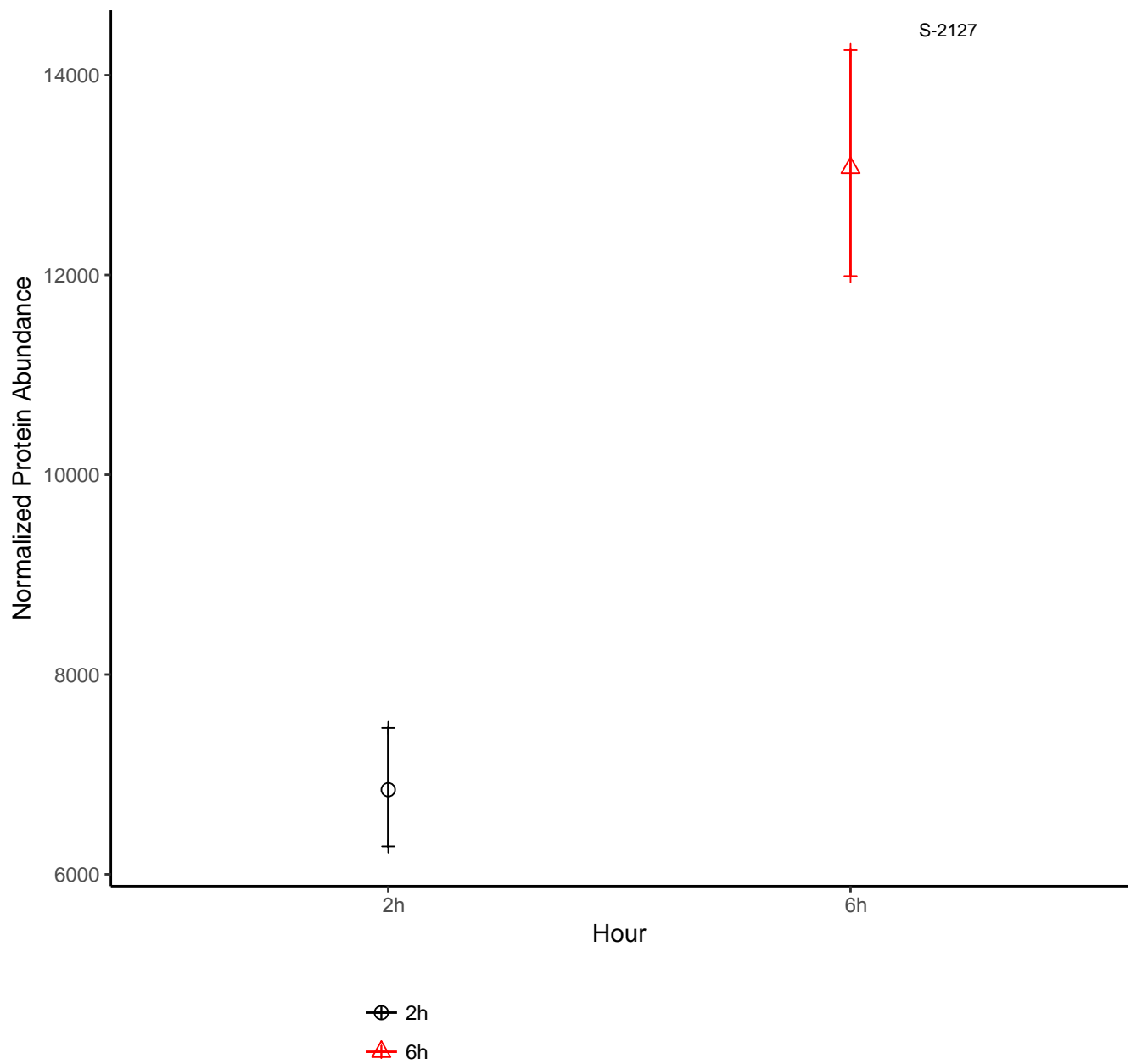
# FTHS\_STAAM



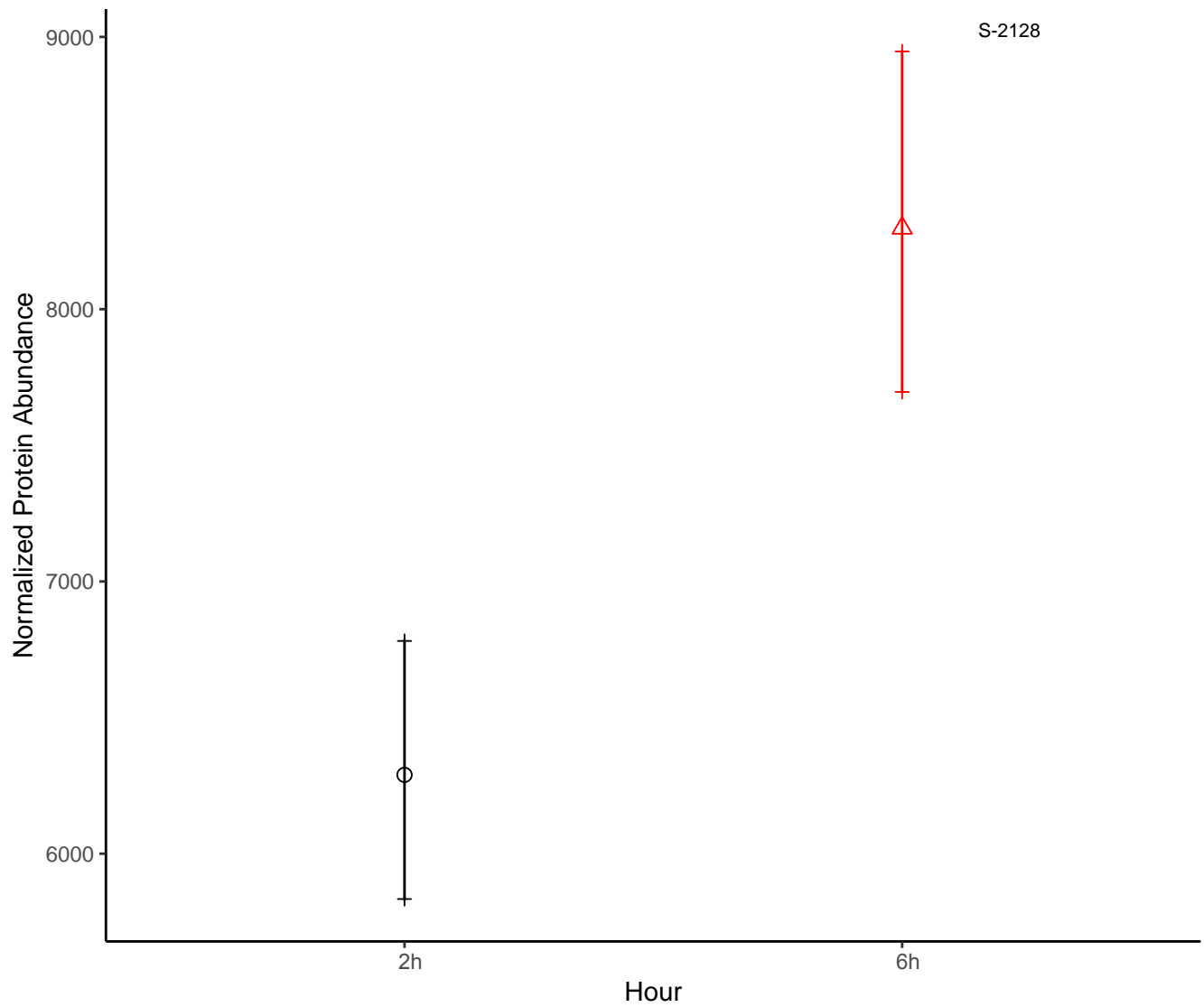
⊕ 2h

△ 6h

# FTN\_STAAM



# FTSA\_STAAM

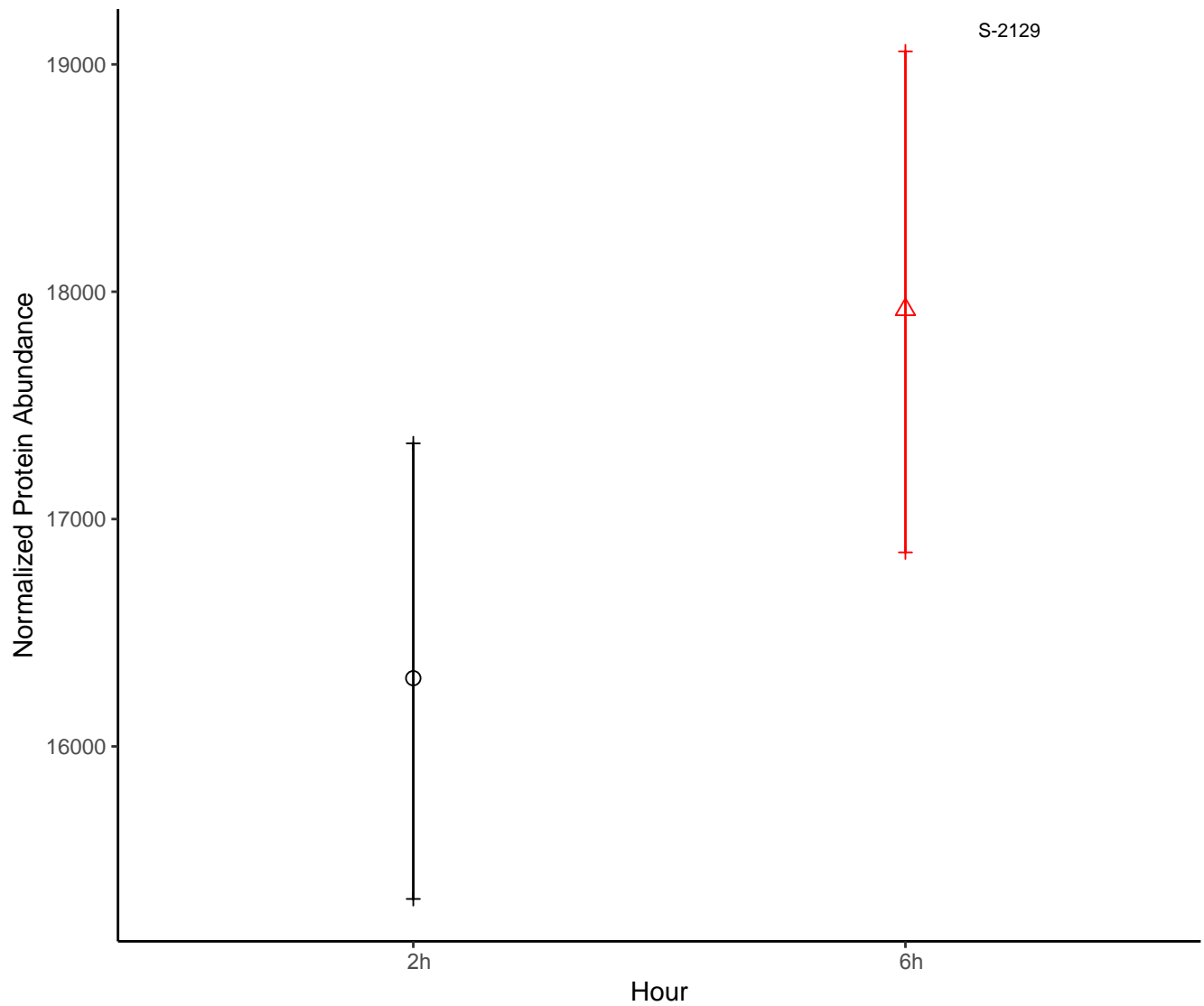


⊕ 2h

△ 6h



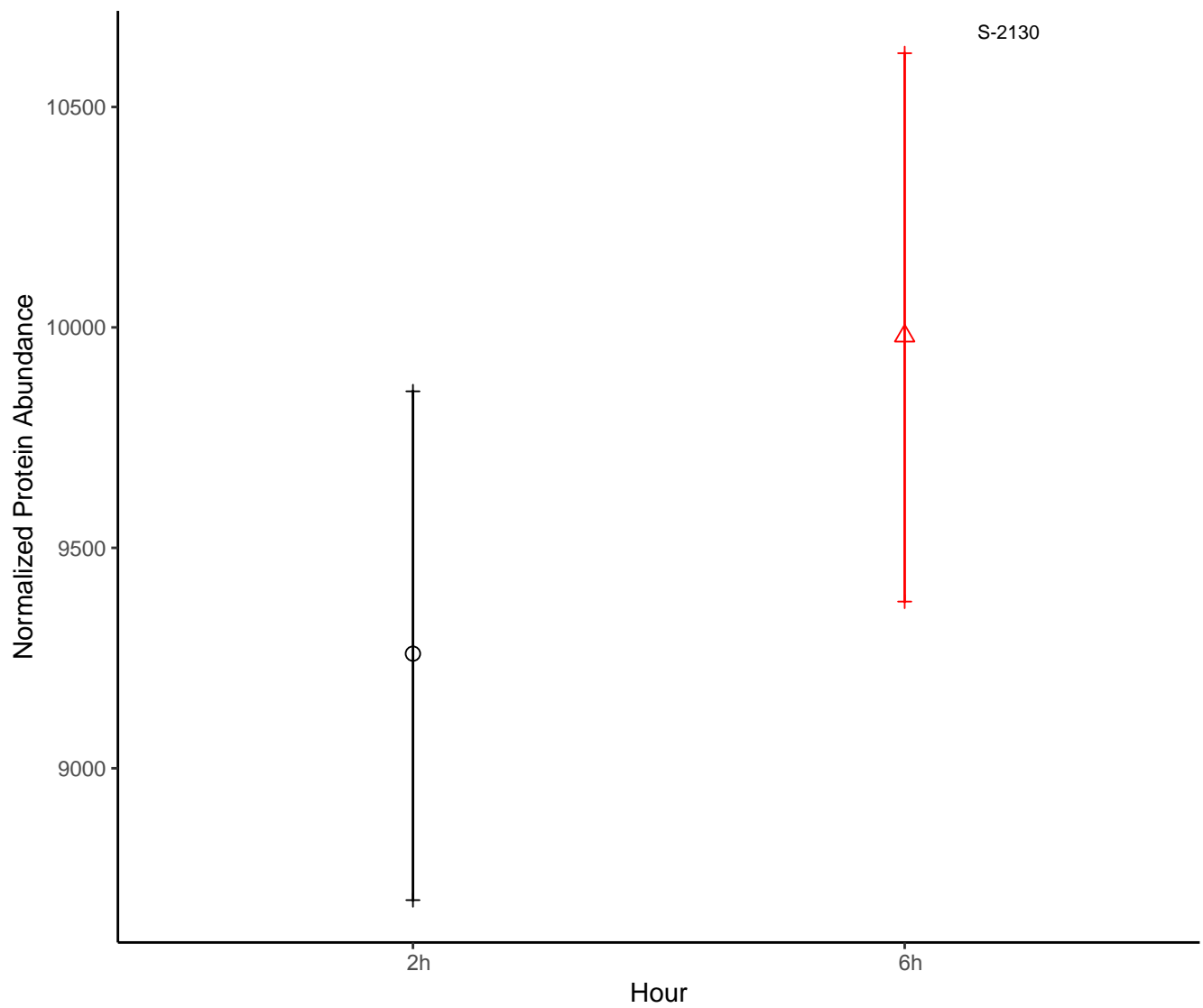
# FTSZ\_STAAM



⊕ 2h

△ 6h

# FUMC\_STAAM

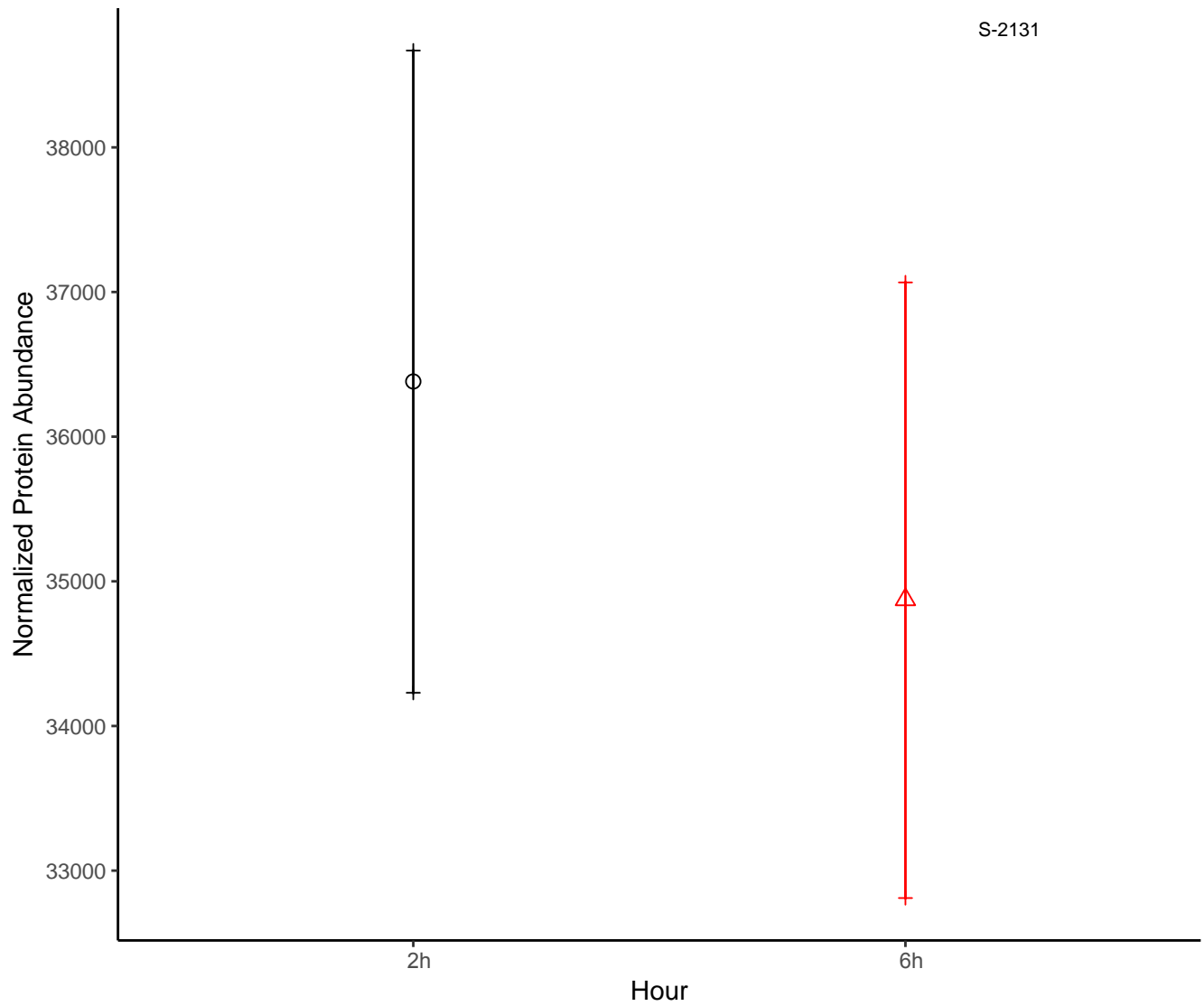


⊕ 2h

△ 6h

# G3P1\_STAAM

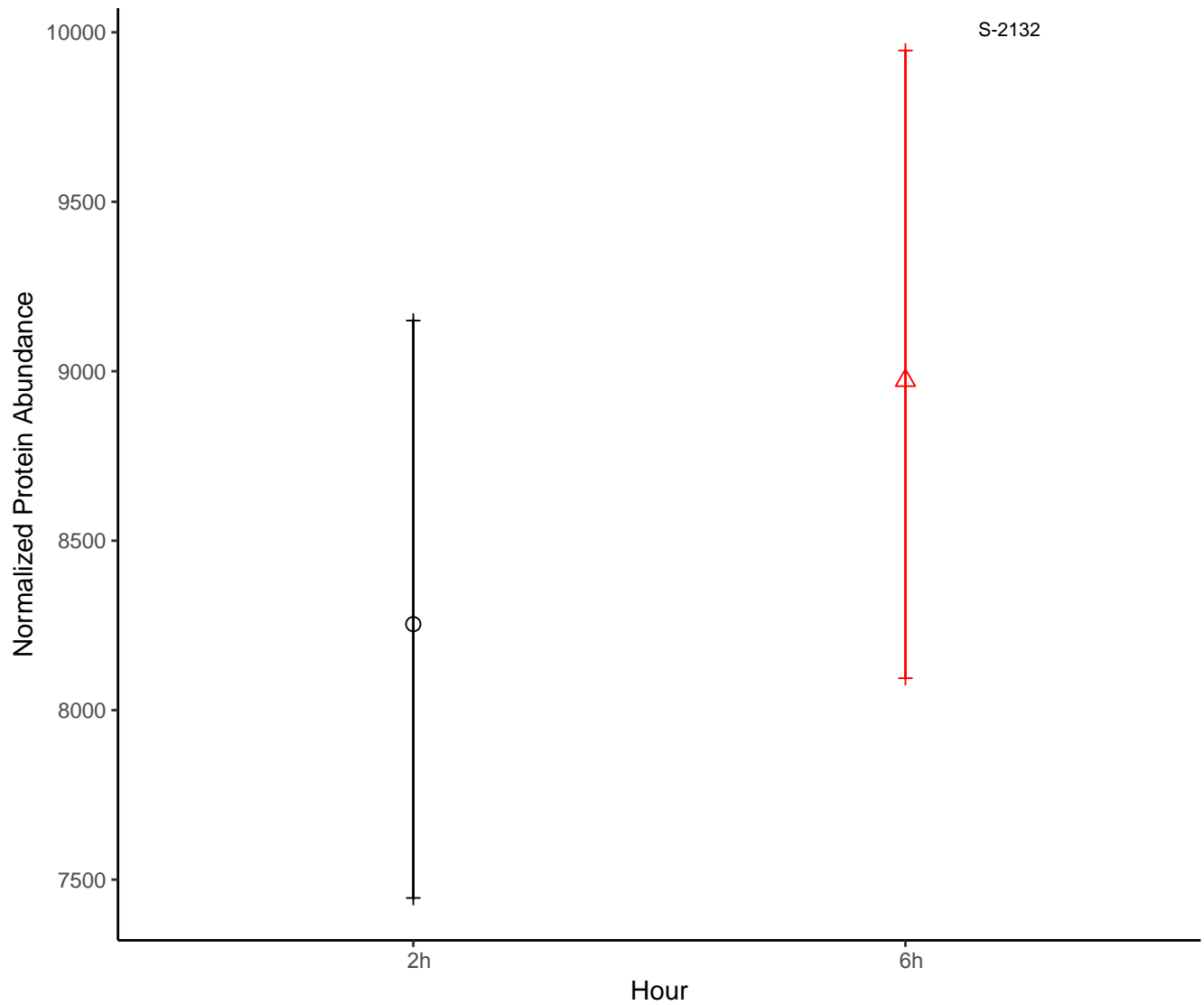
S-2131



⊕ 2h

△ 6h

# G3P2\_STAAM

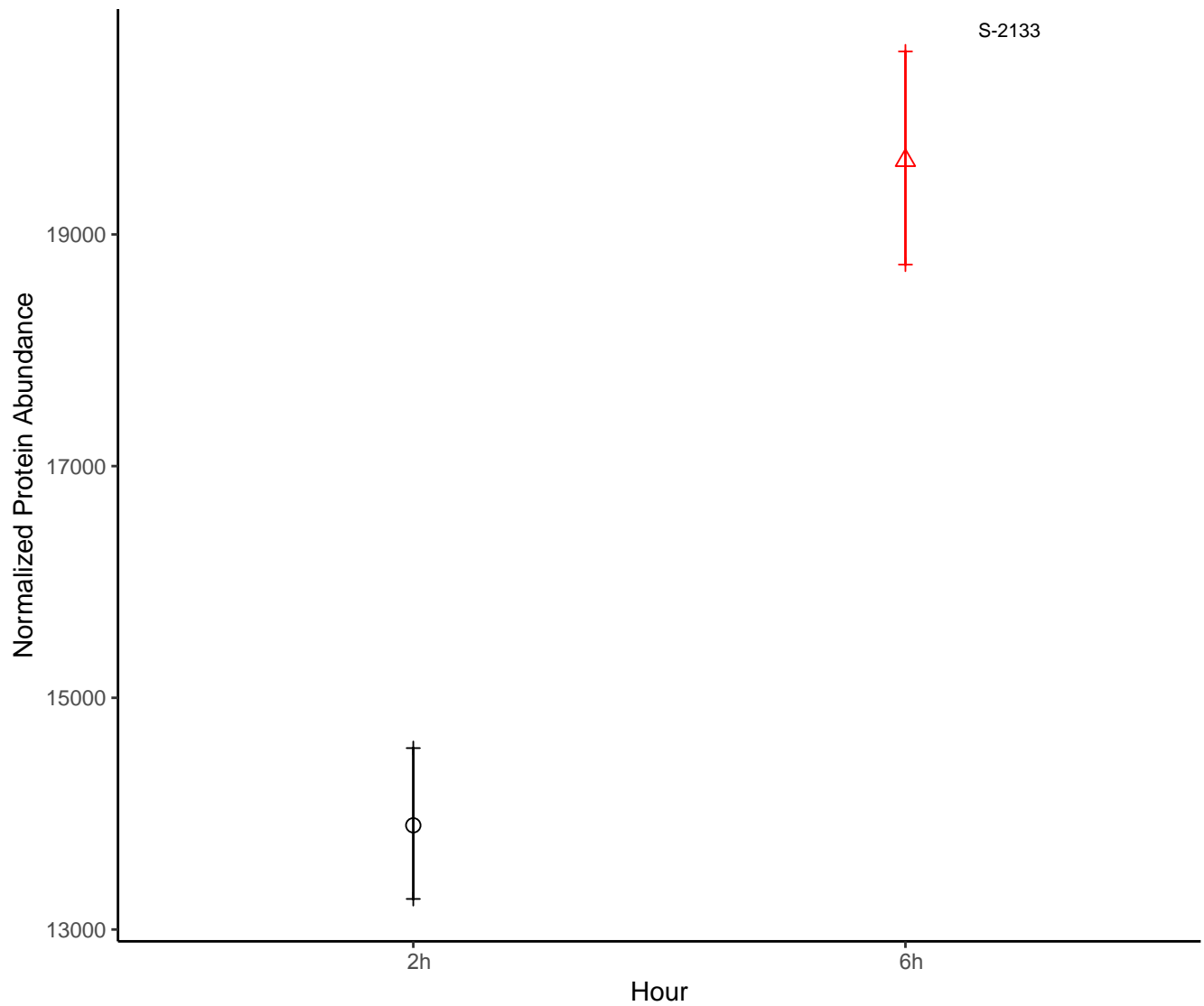


S-2132

⊕ 2h

△ 6h

# G6PI\_STAAM

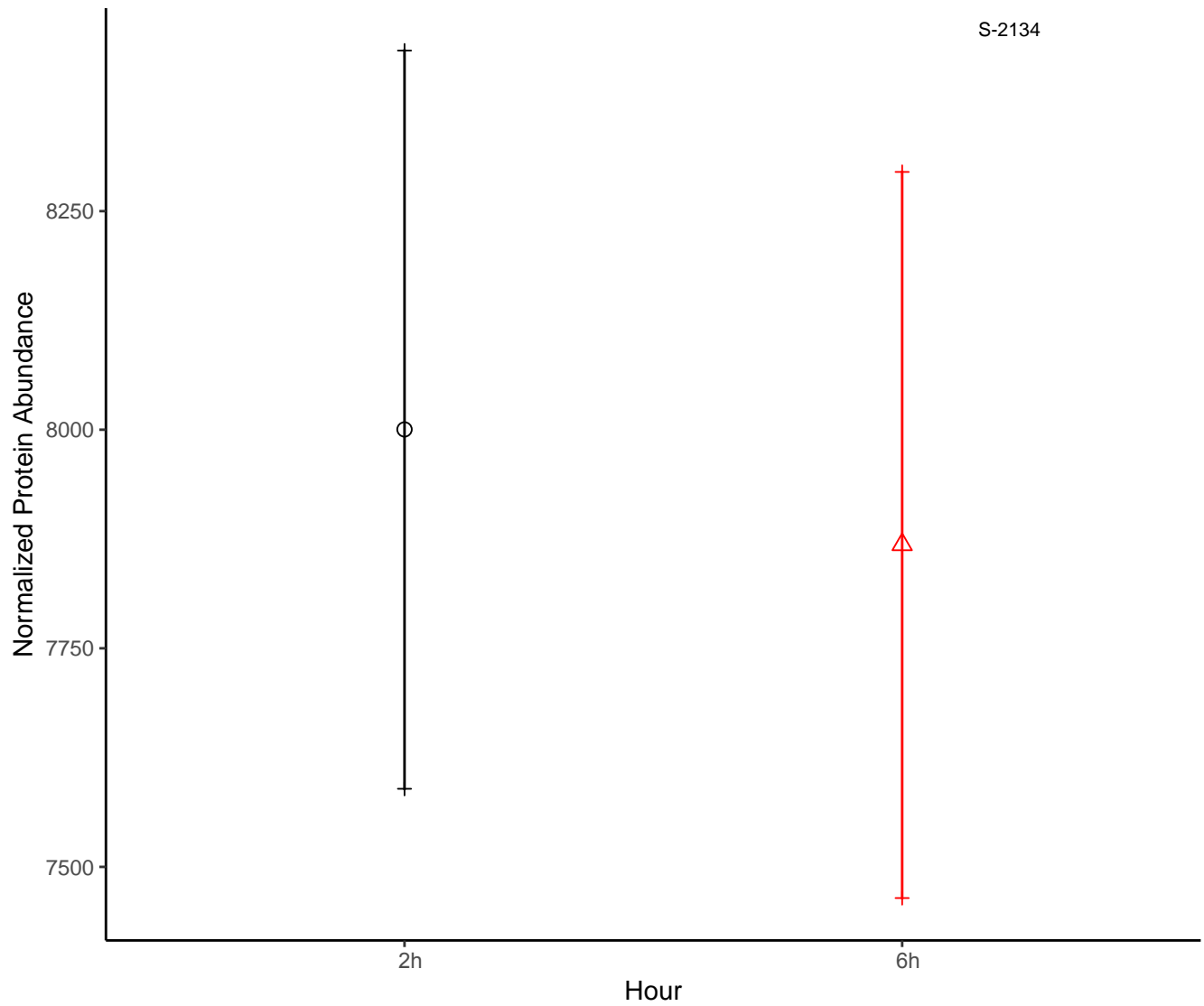


⊕ 2h

△ 6h

# GATA\_STAAM

S-2134

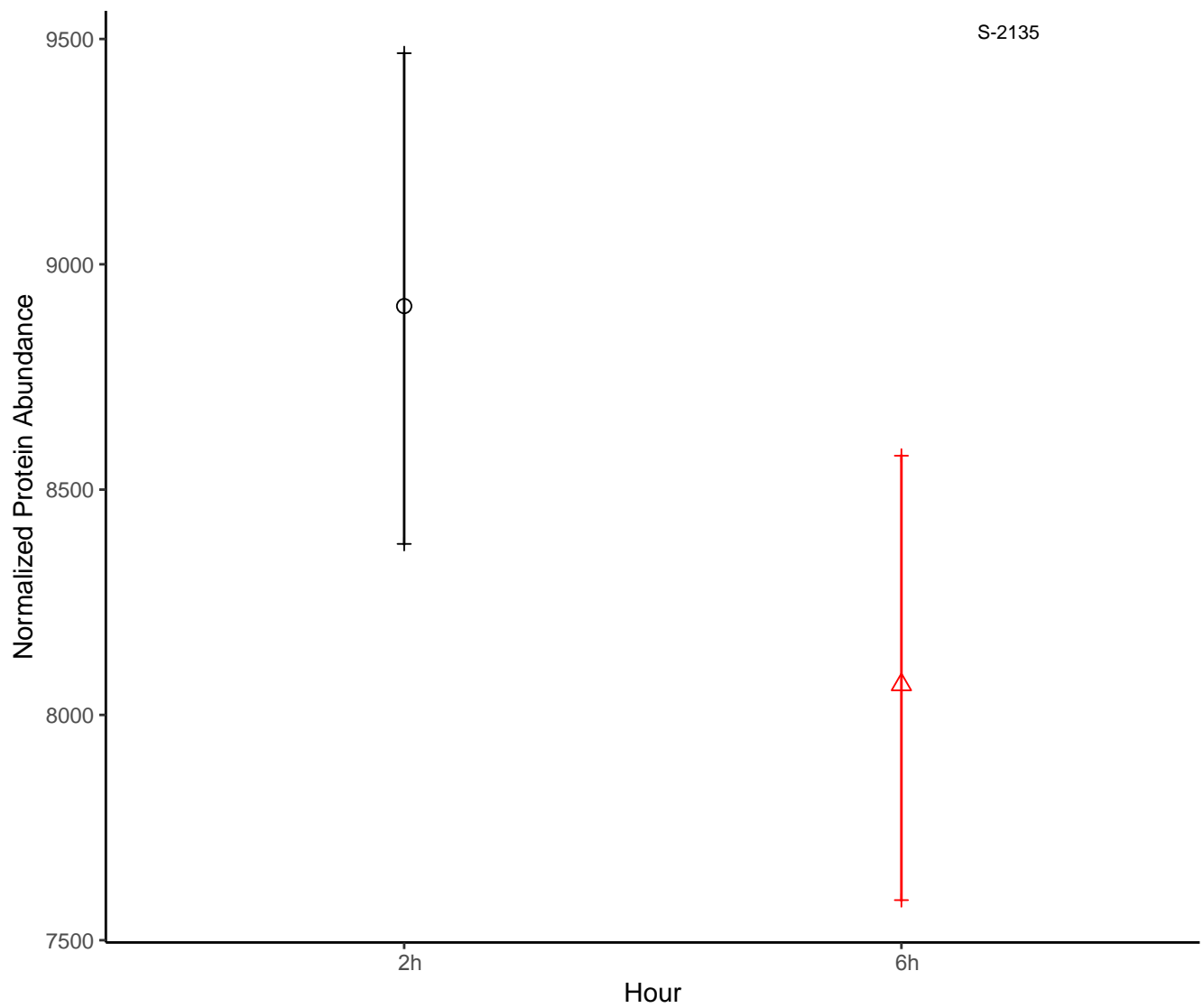


⊕ 2h

△ 6h

# GATB\_STAAM

S-2135

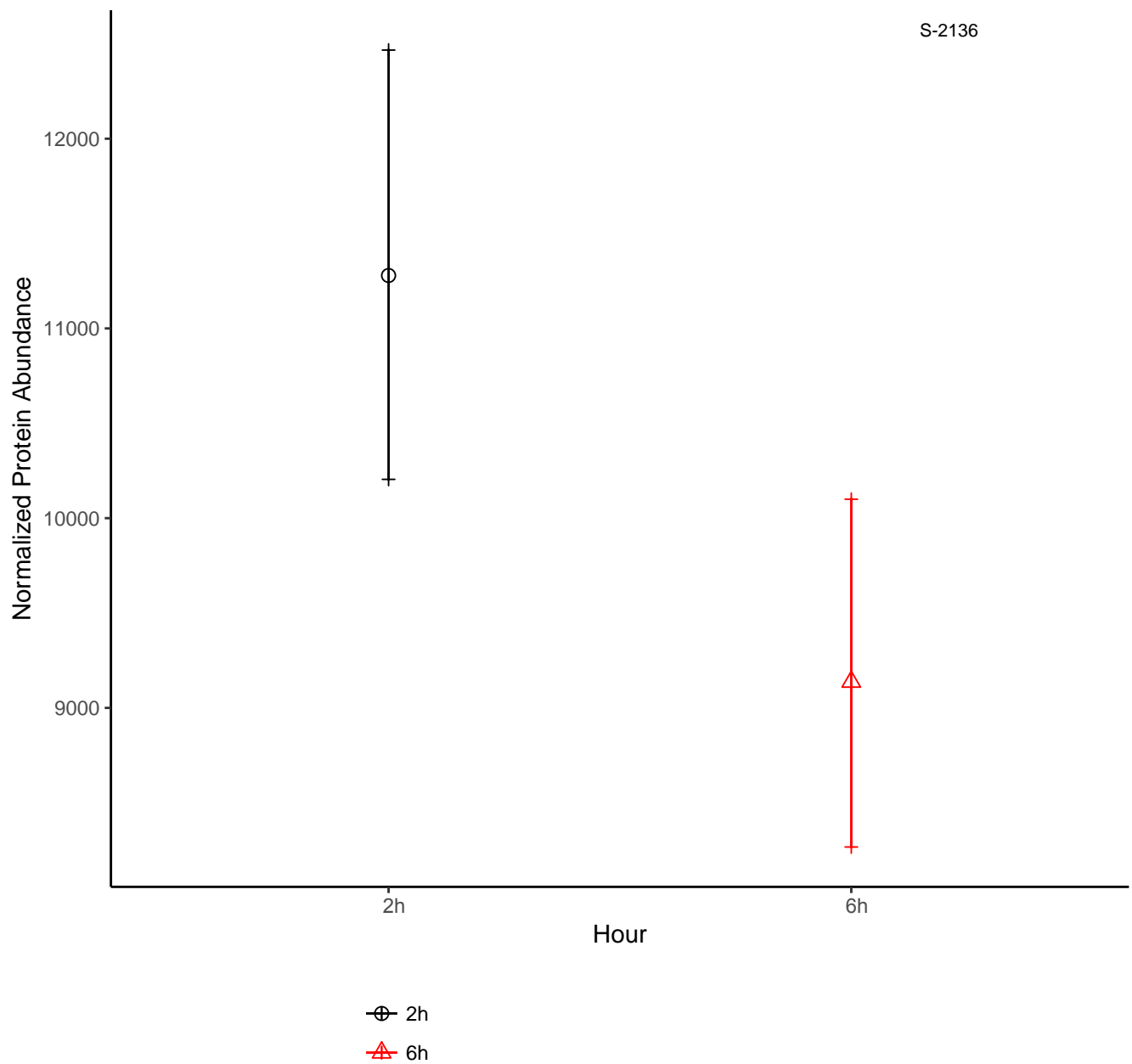


⊕ 2h

△ 6h

# GATC\_STAAM

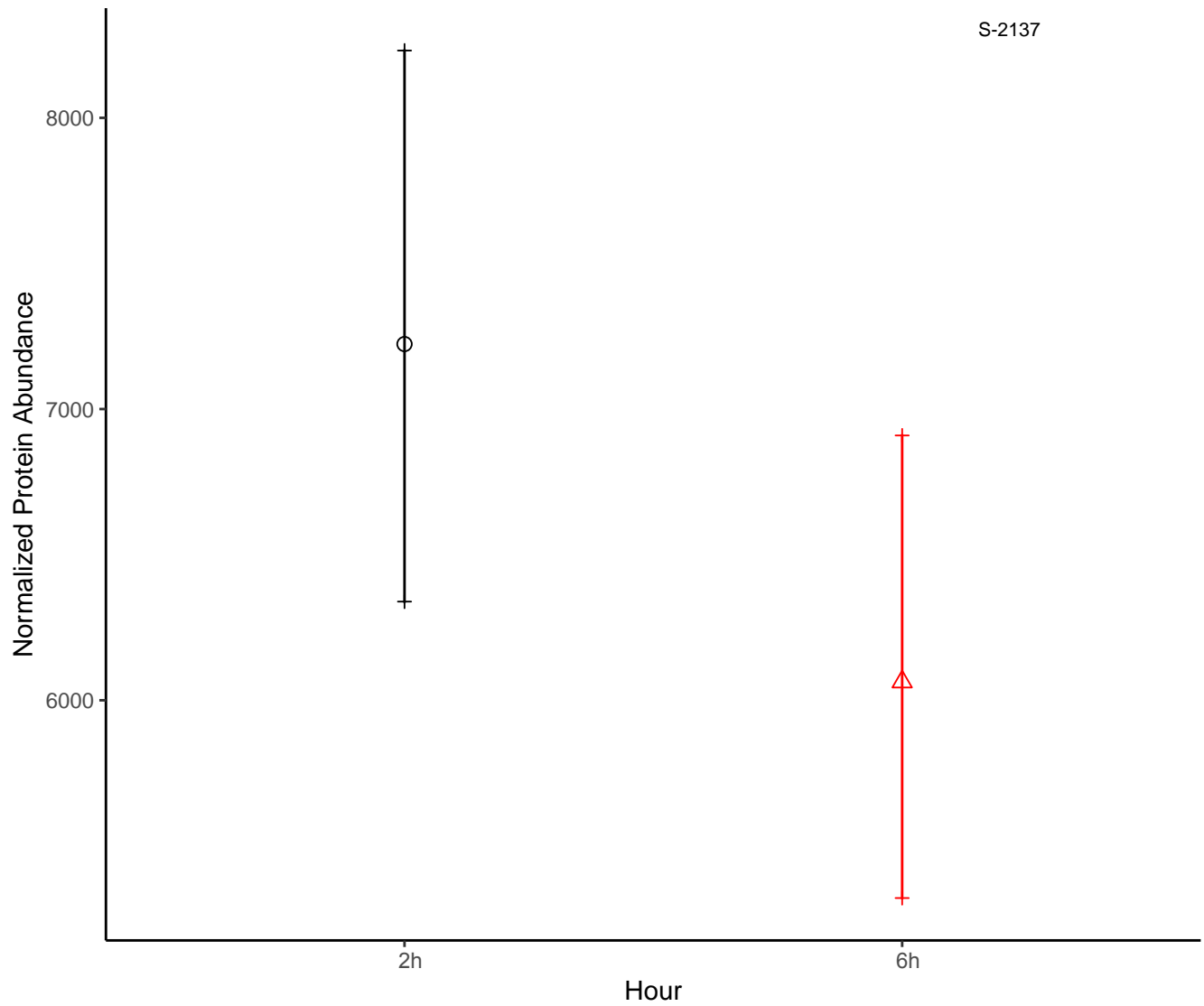
S-2136





# GCH4\_STAAM

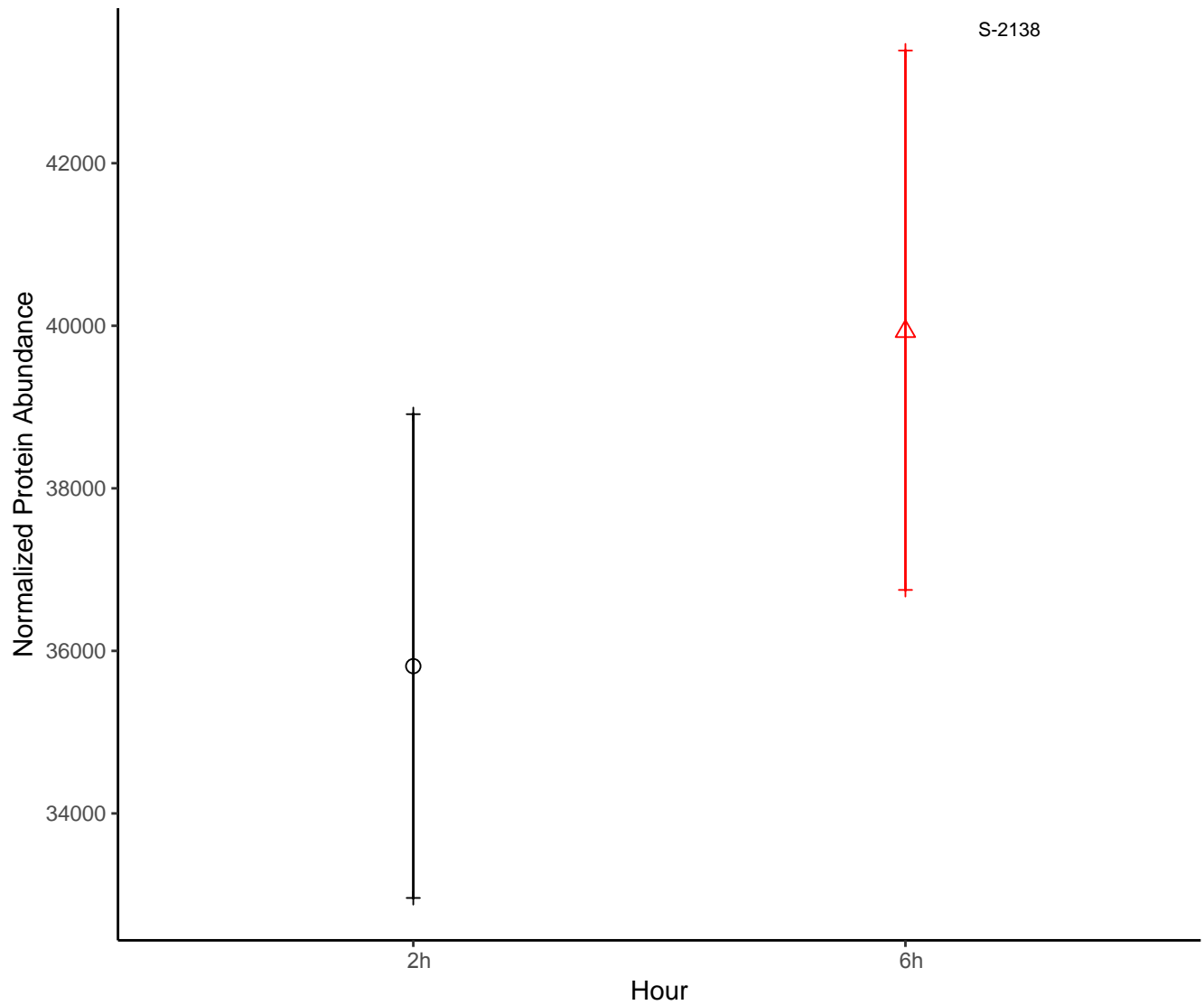
S-2137



⊕ 2h

△ 6h

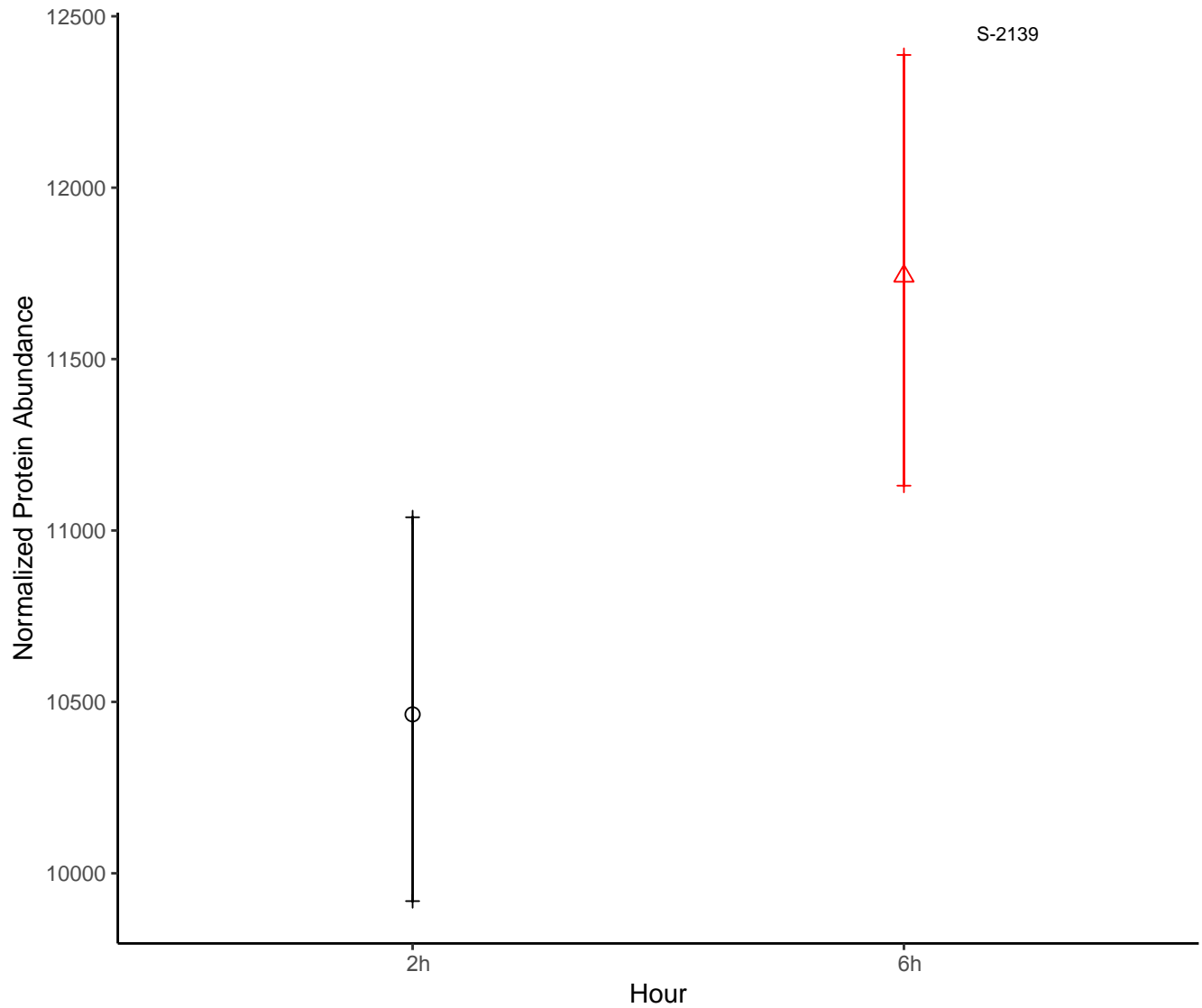
# GCSH\_STAAM



⊕ 2h

△ 6h

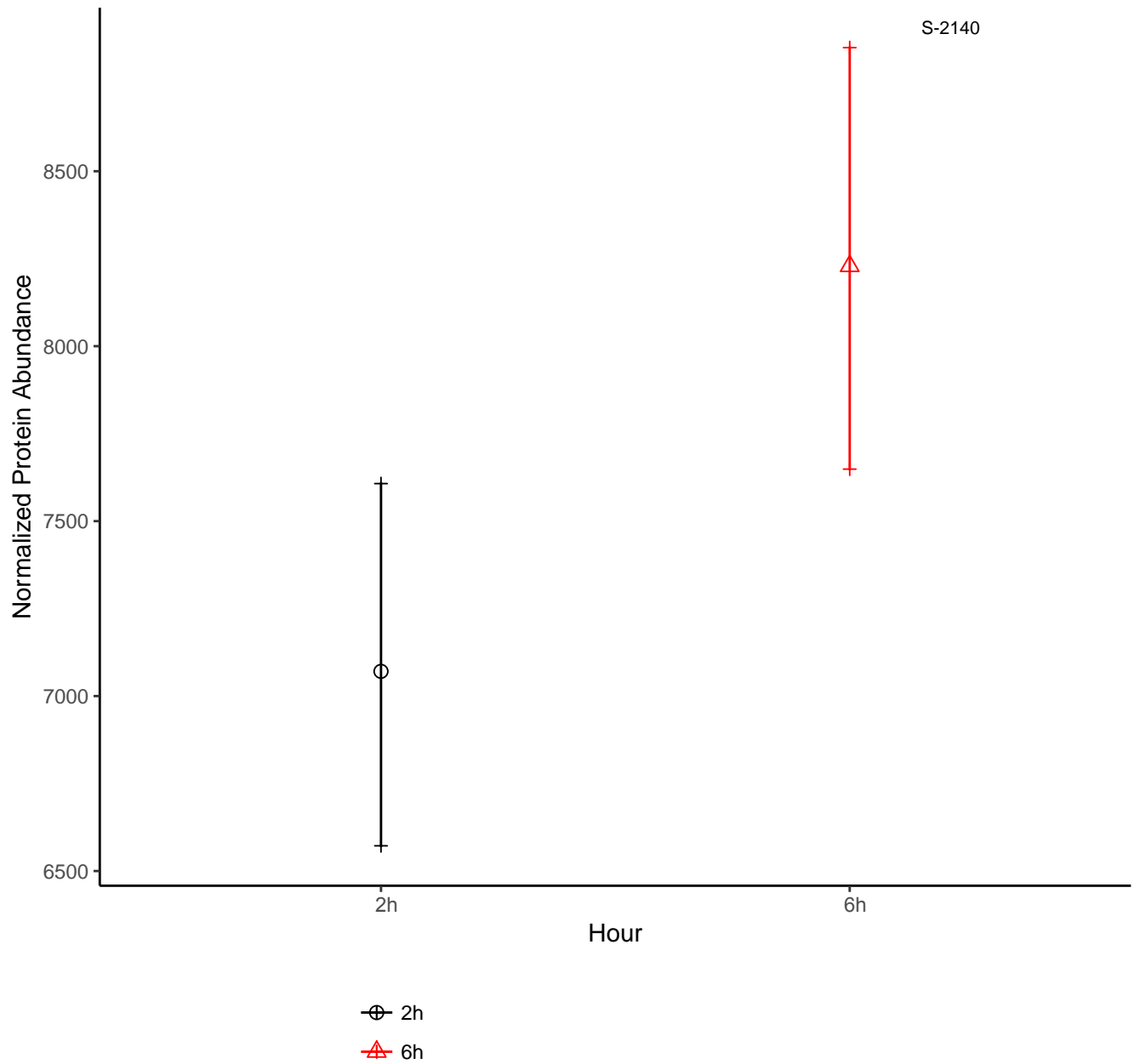
# GCSPA\_STAAM



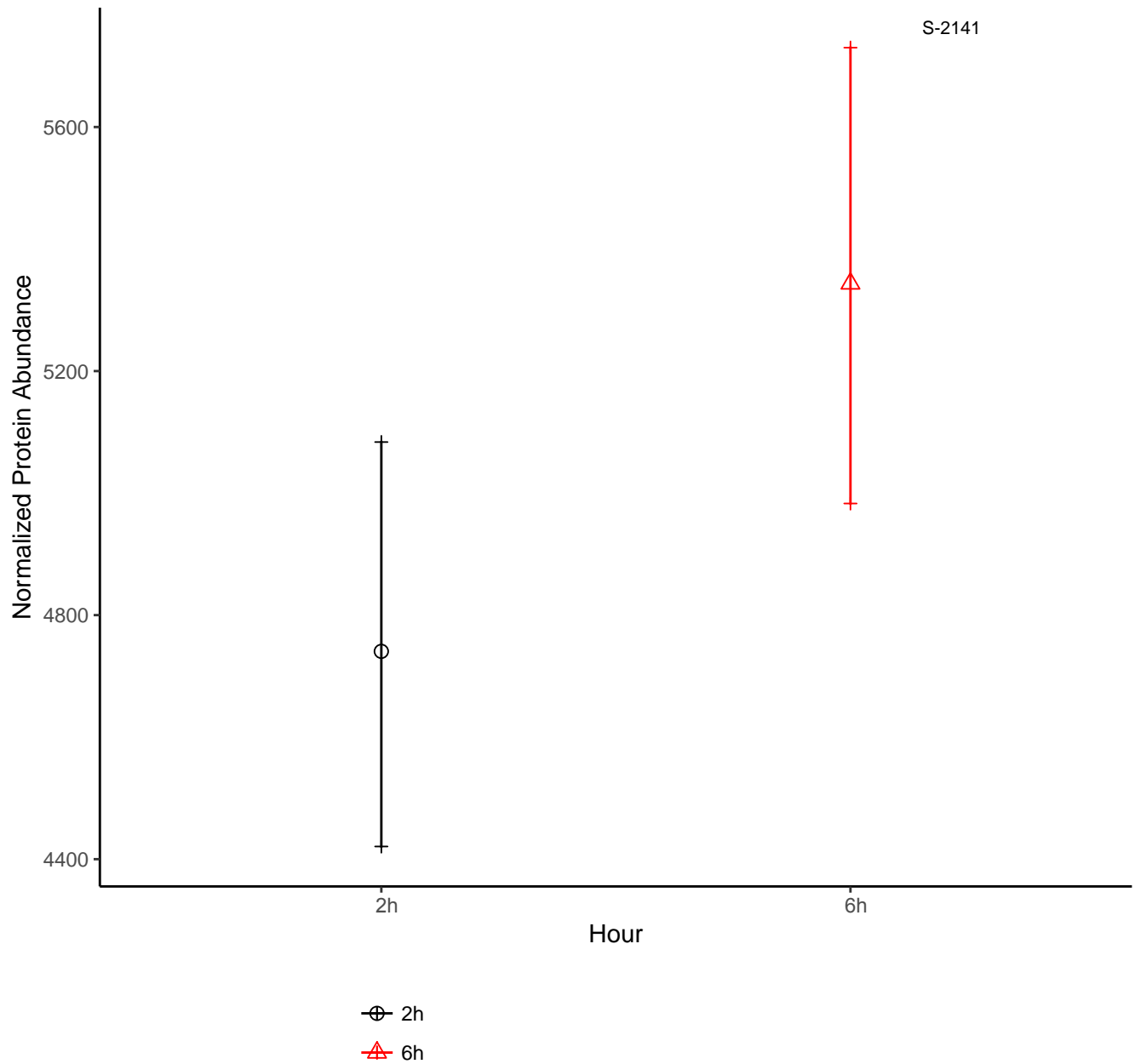
⊕ 2h

△ 6h

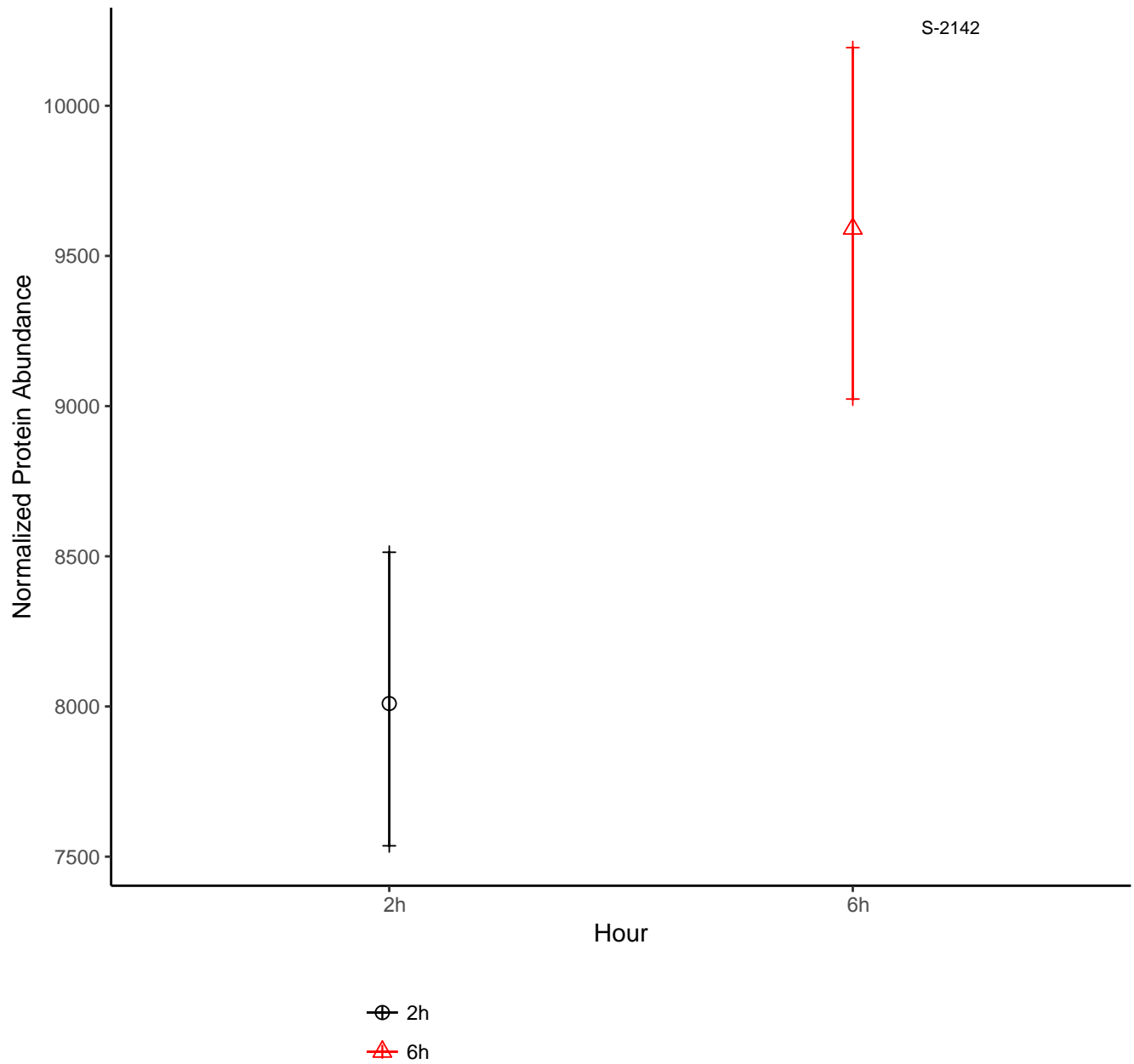
# GCSPB\_STAAM



# GCST\_STAAM

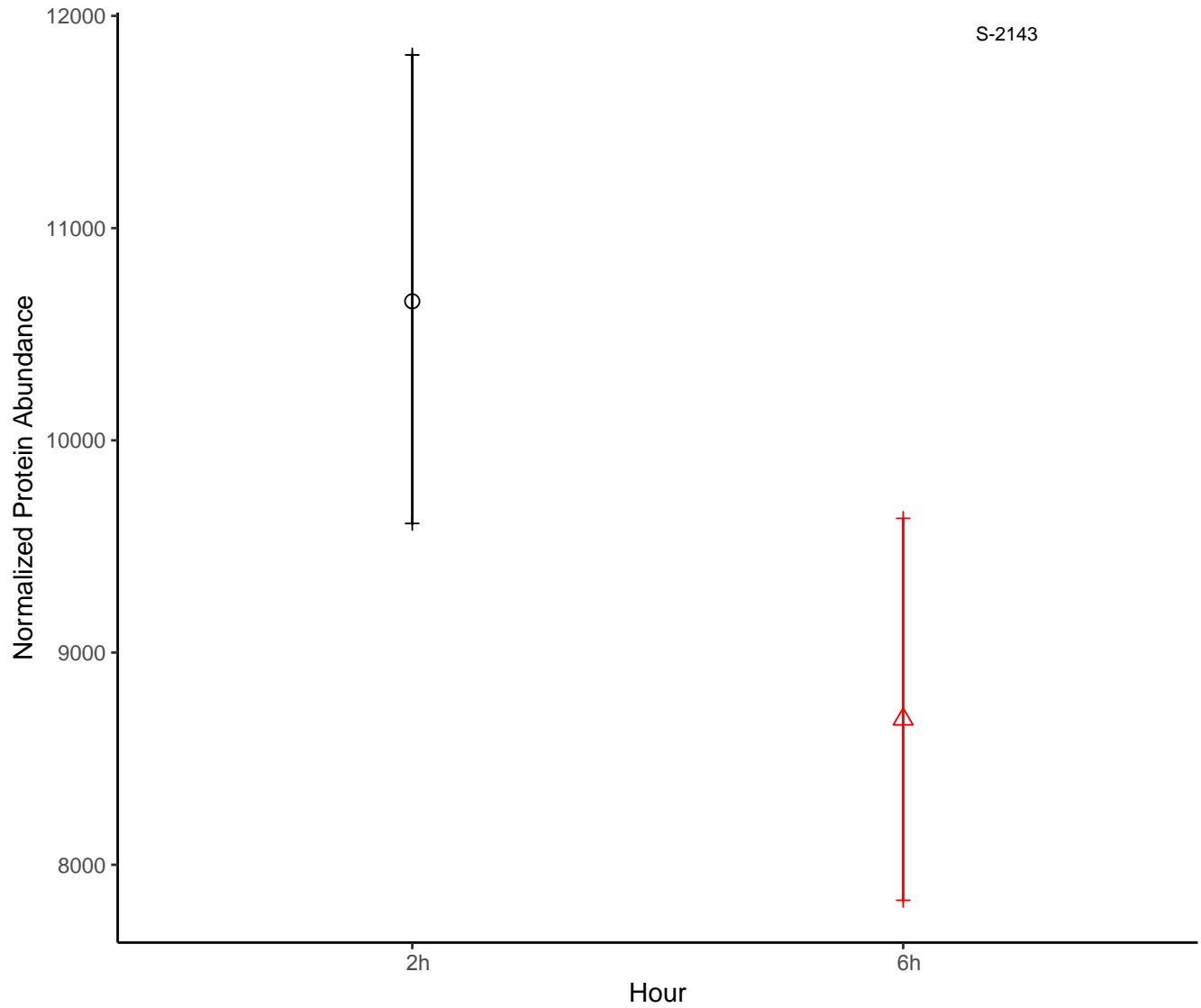


# GLMM\_STAAM



# GLMS\_STAAM

S-2143

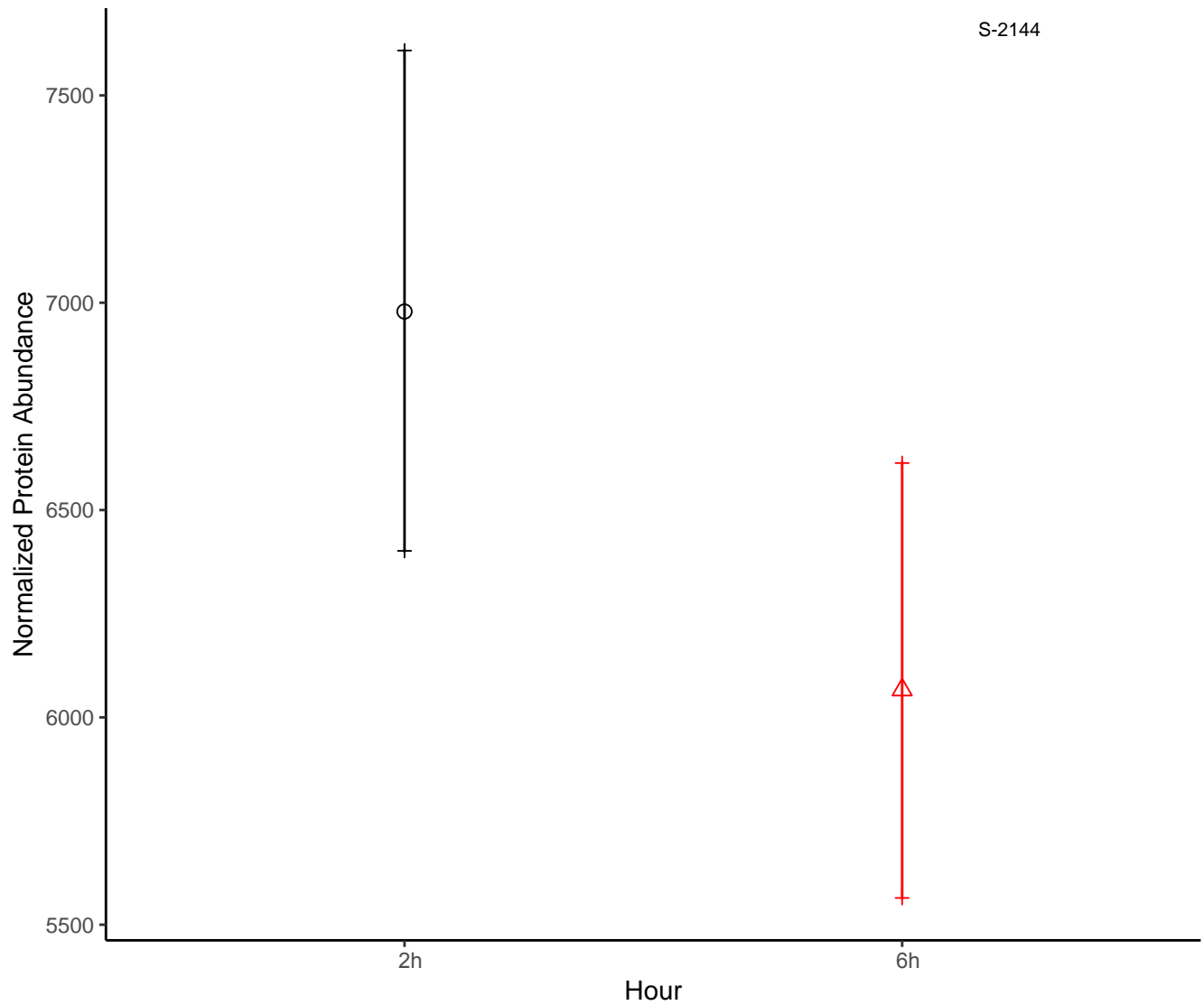


⊕ 2h

△ 6h

# GLMU\_STAAM

S-2144

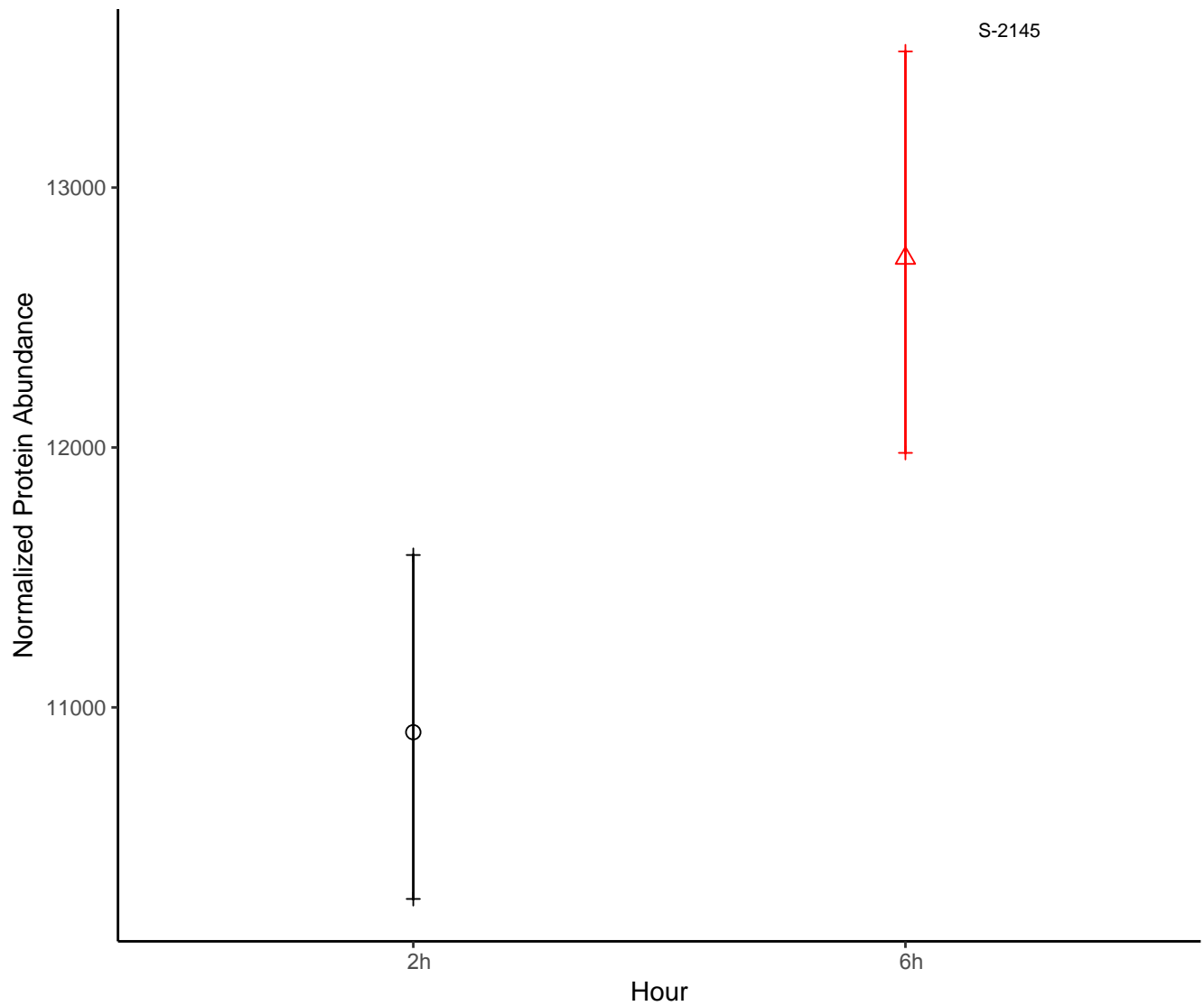


⊕ 2h

△ 6h



# GLNA\_STAAM

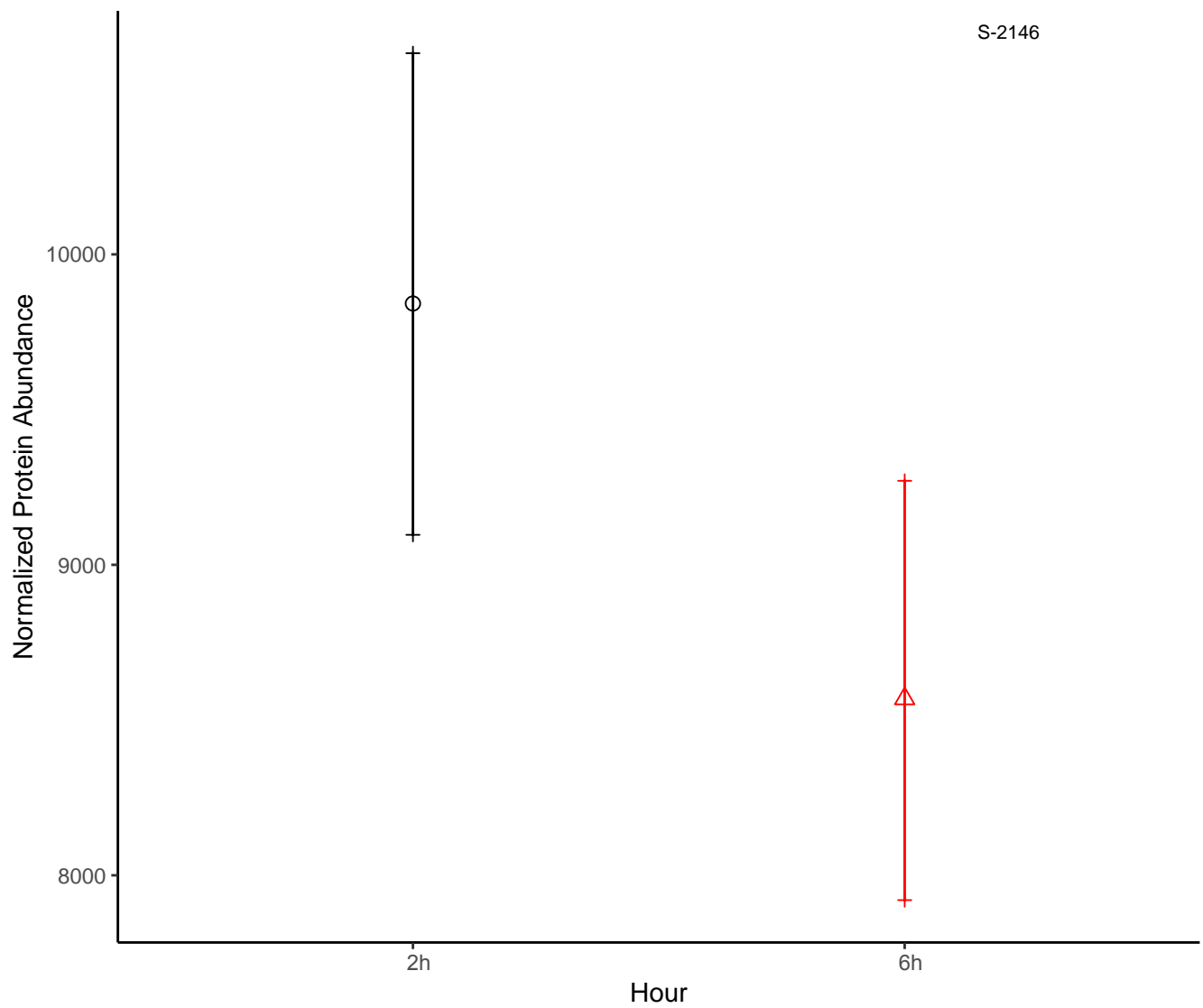


⊕ 2h

△ 6h

# GLPD\_STAAM

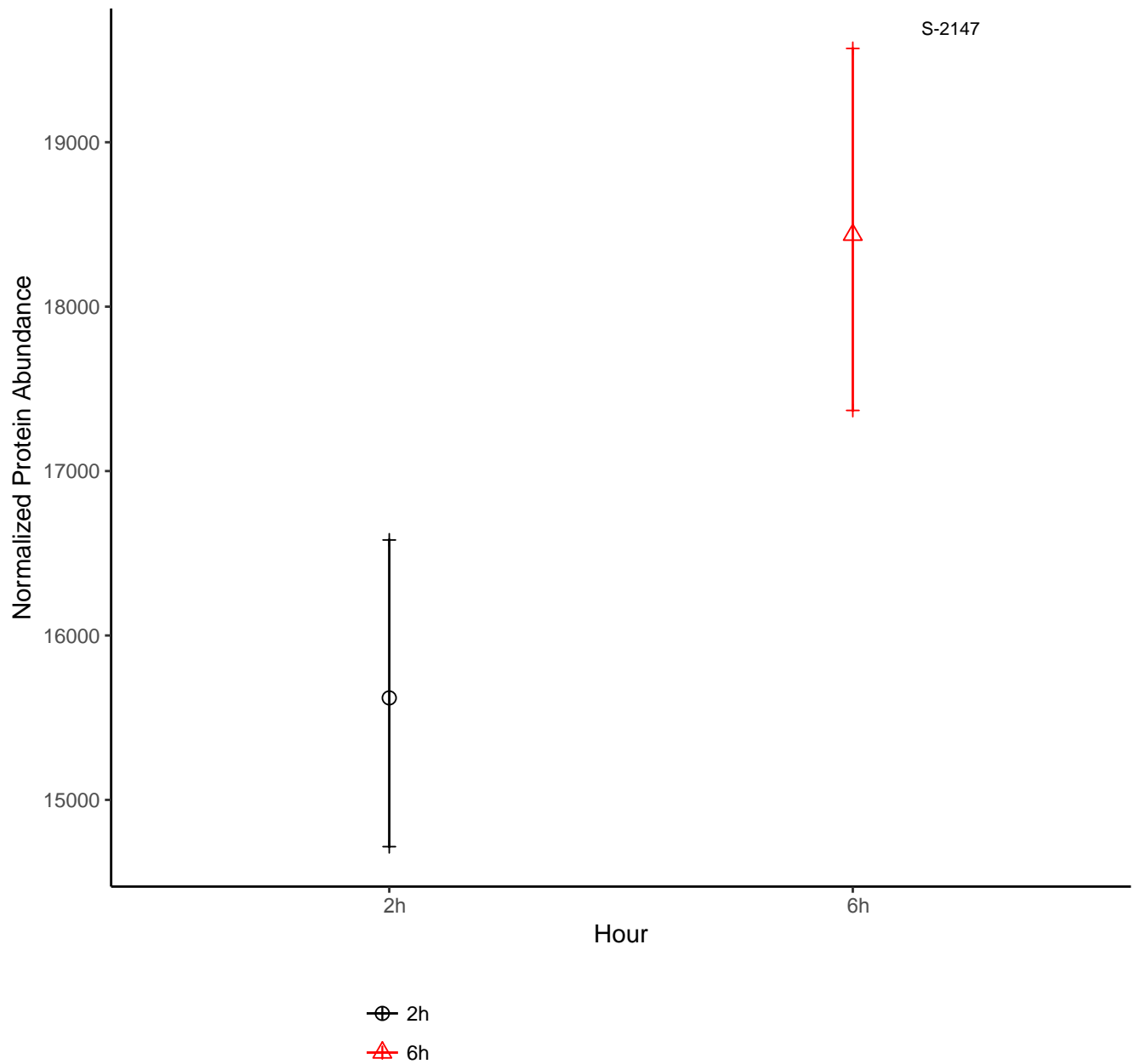
S-2146



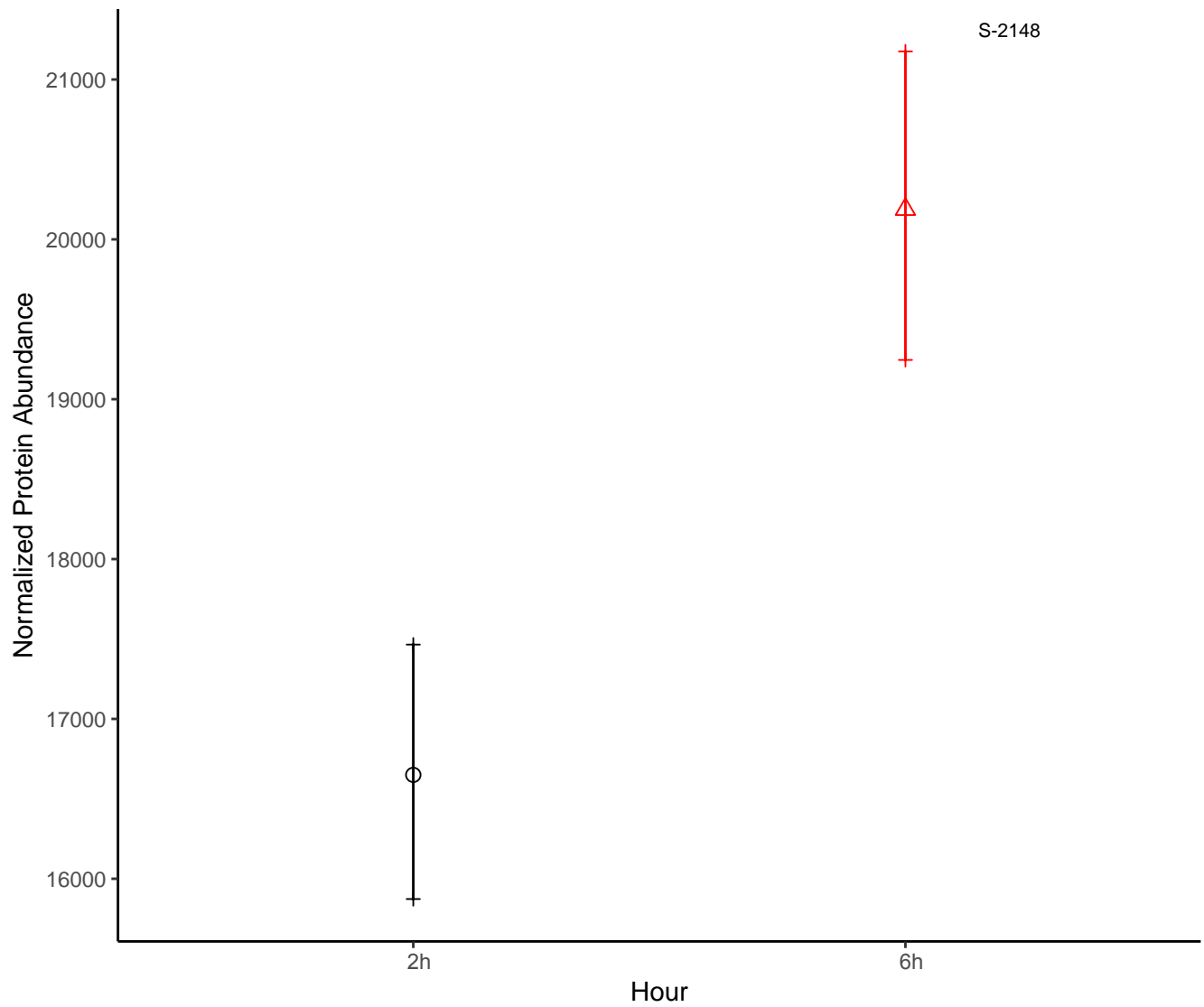
⊕ 2h

△ 6h

# GLPK\_STAAM



# GLYA\_STAAM

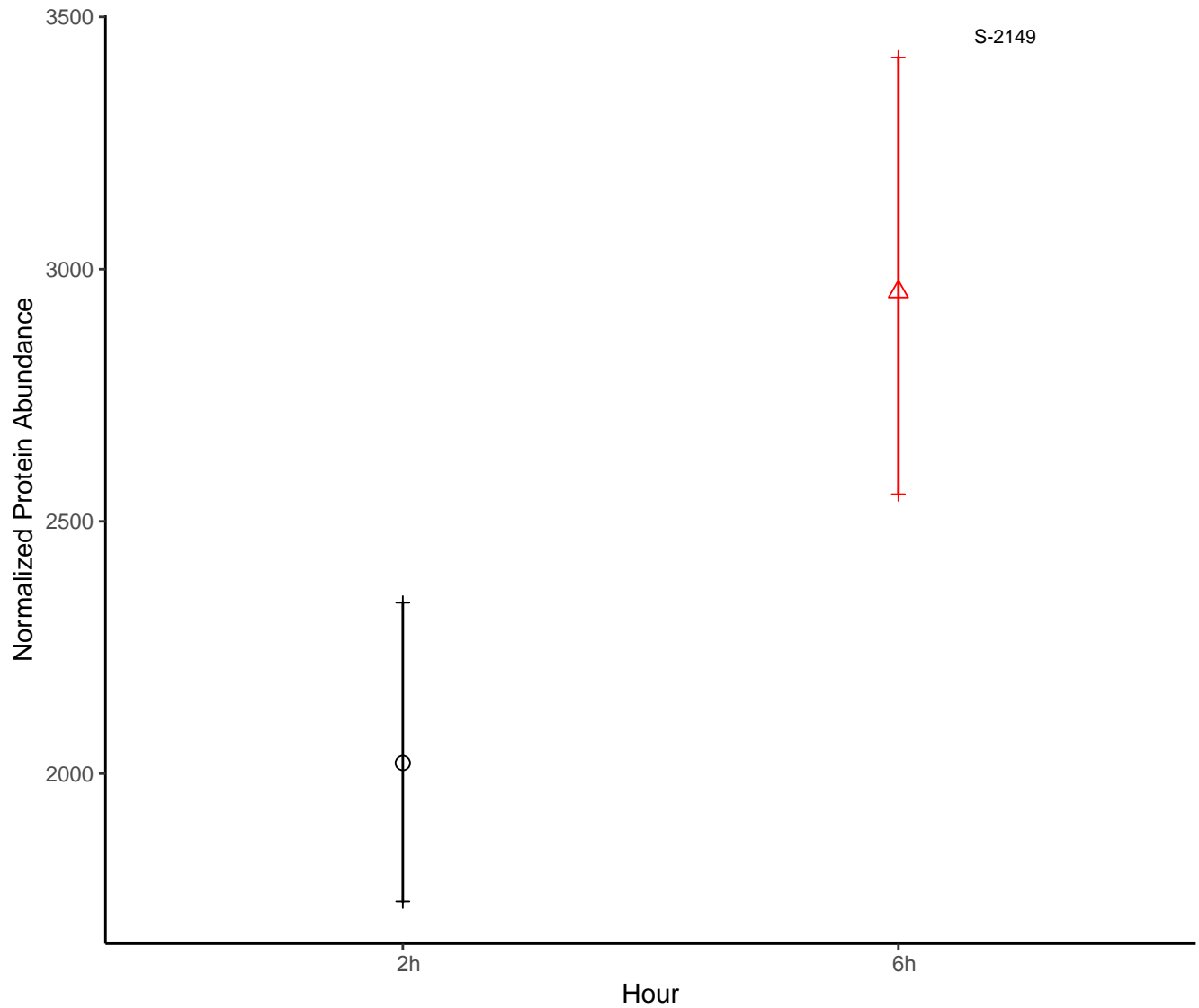


S-2148

⊕ 2h

△ 6h

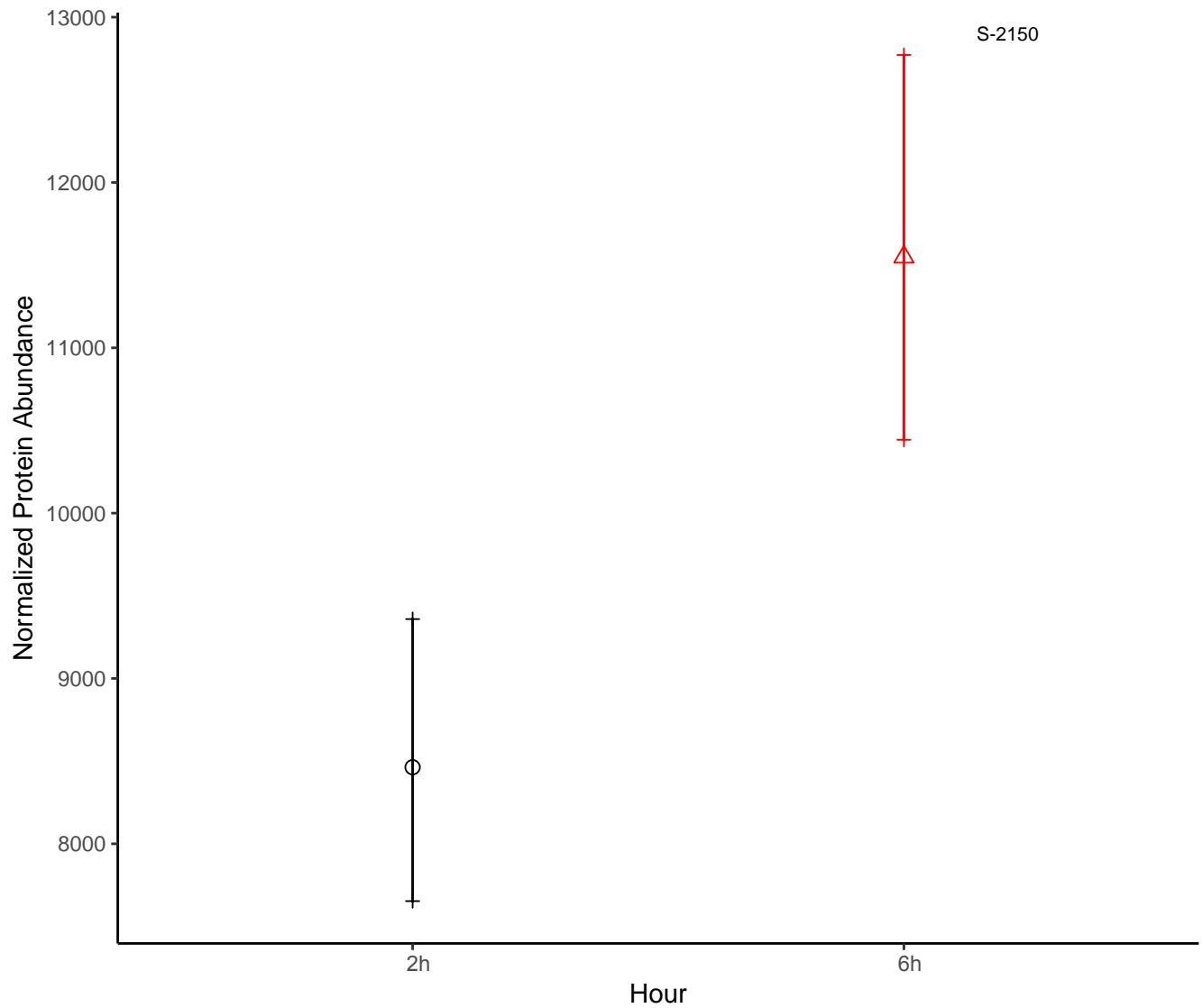
# GPDA\_STAAM



⊕ 2h

△ 6h

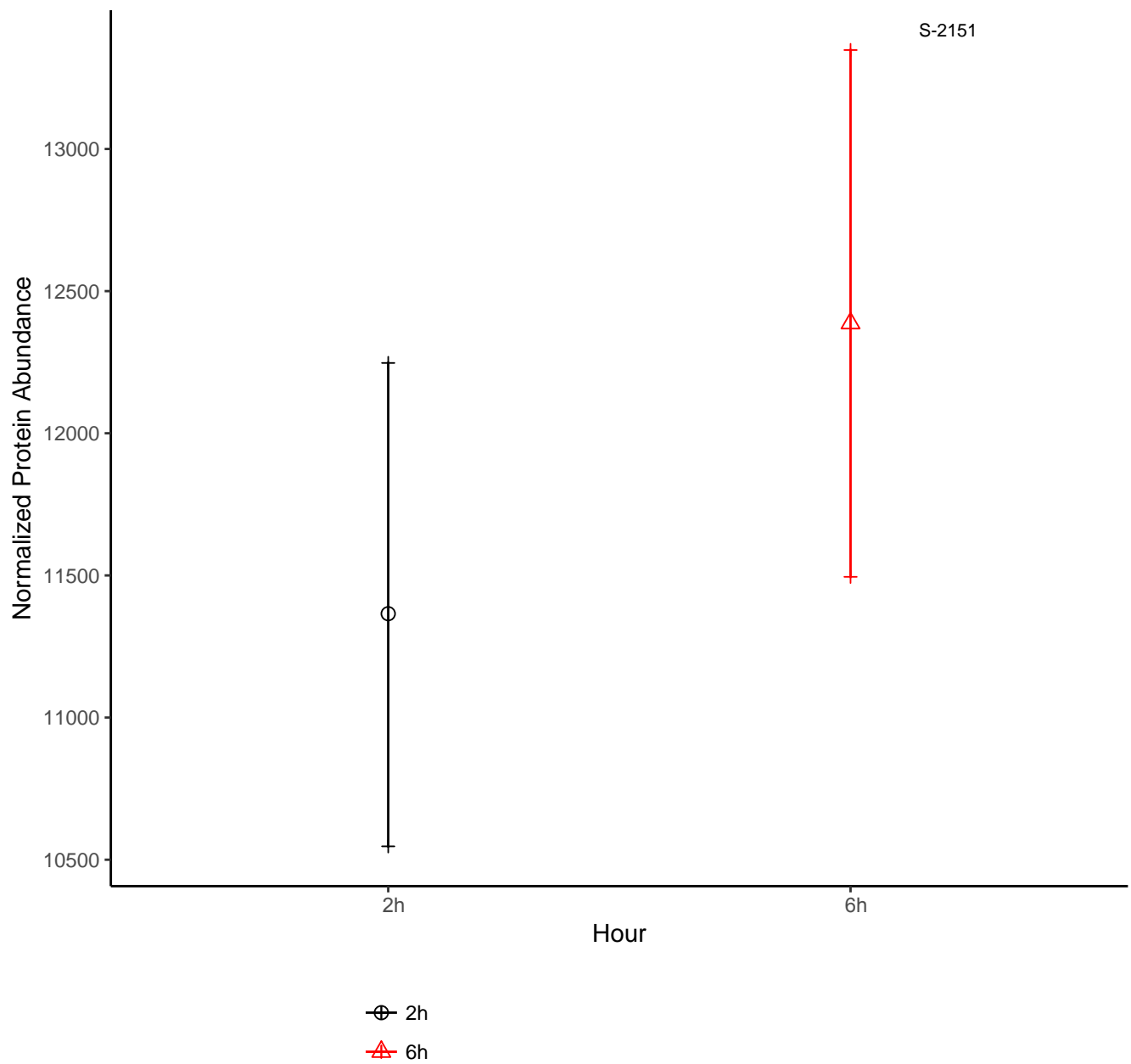
# GPMA\_STAAM



⊕ 2h

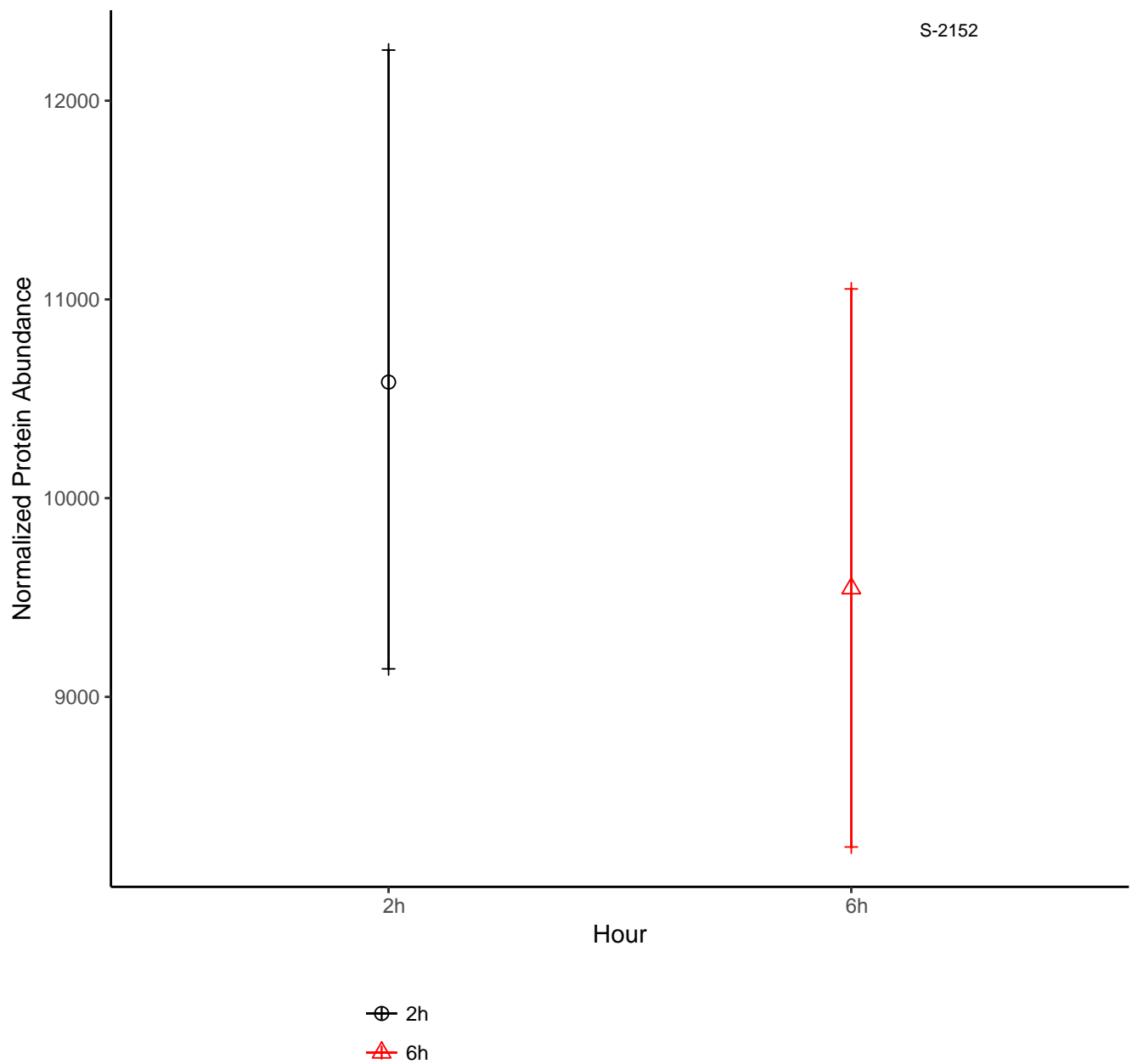
△ 6h

# GPMI\_STAAM



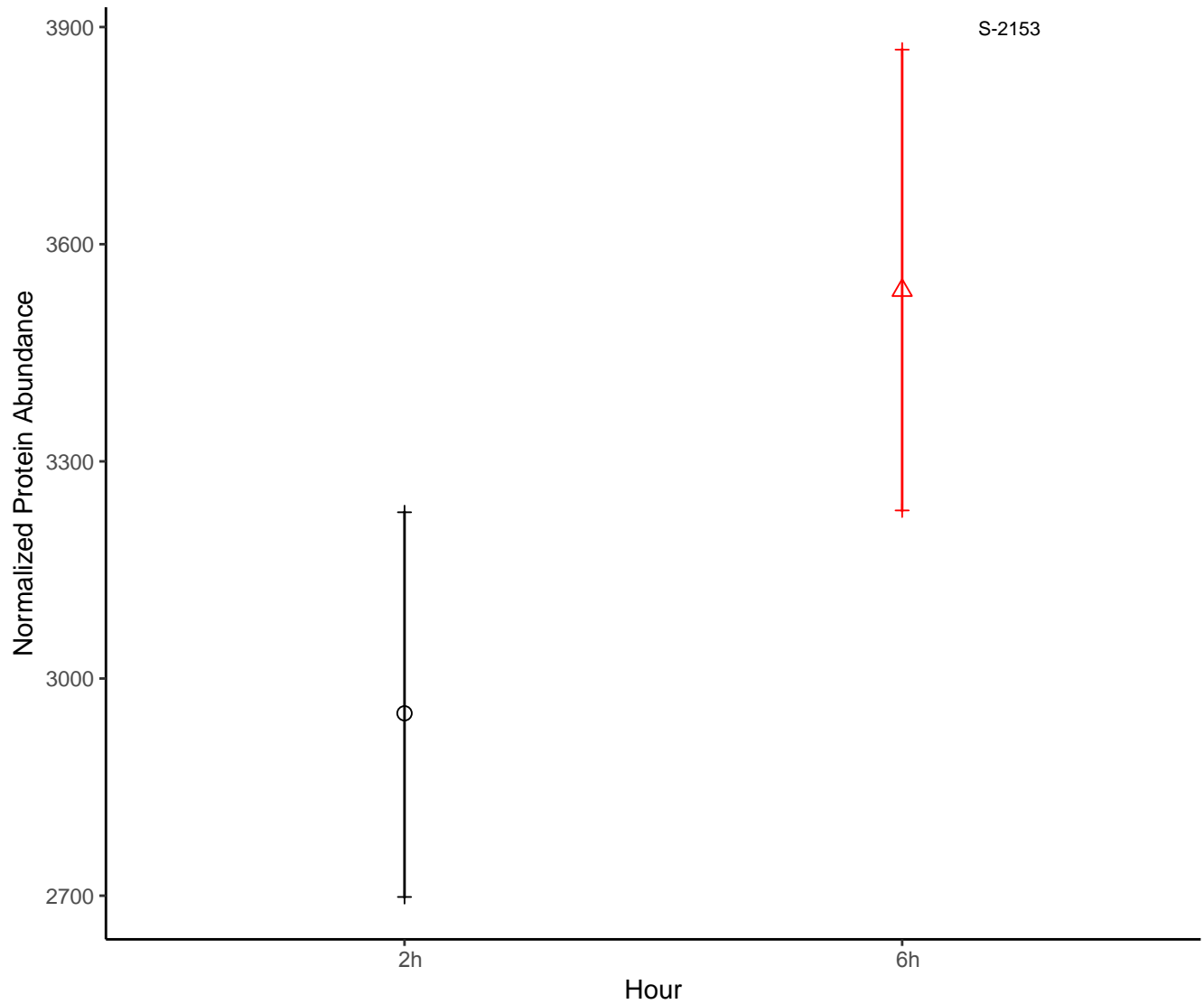
# GPSB\_STAAM

S-2152





# GRAR\_STAAM

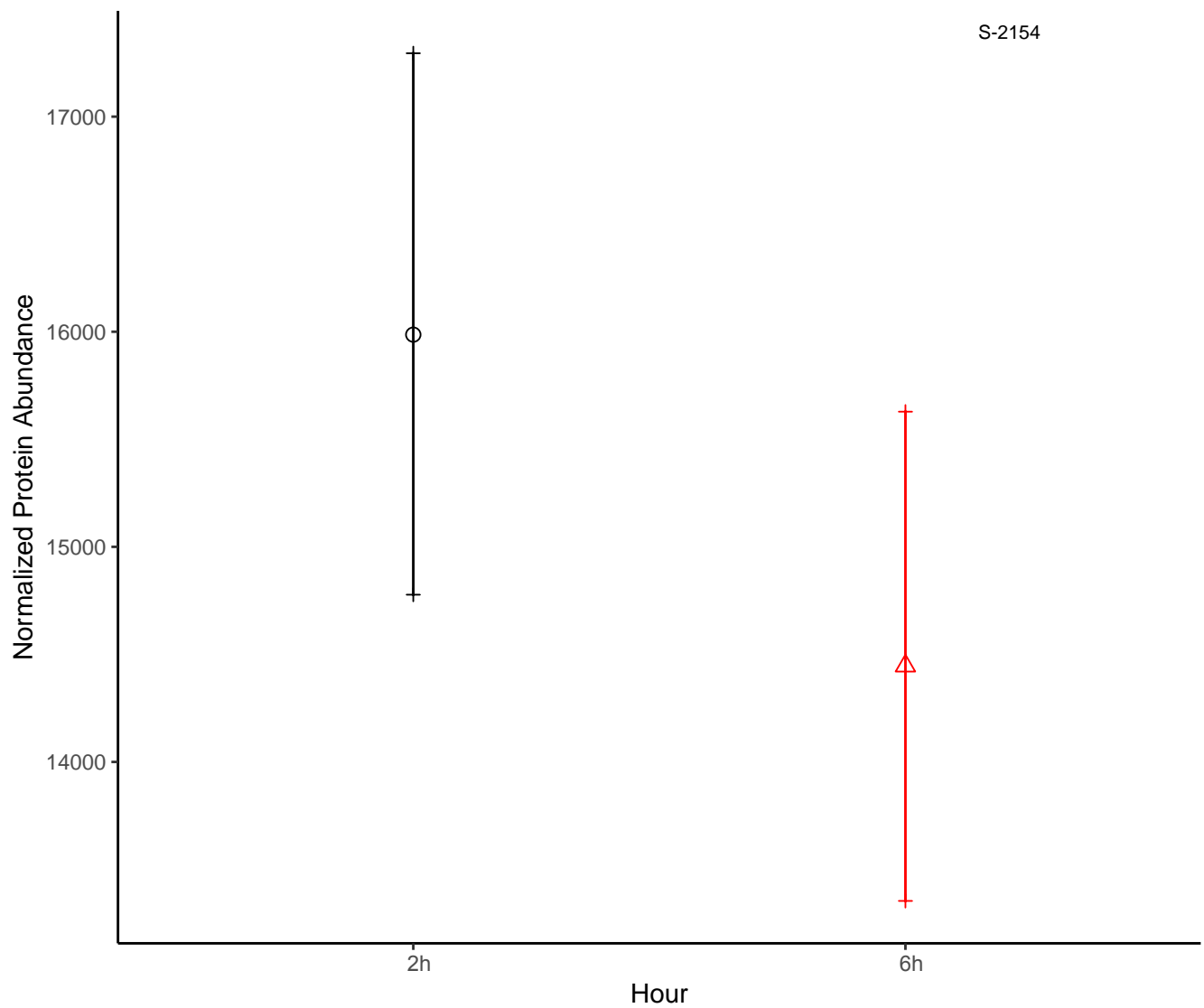


⊕ 2h

△ 6h

# GREASTAAM

S-2154

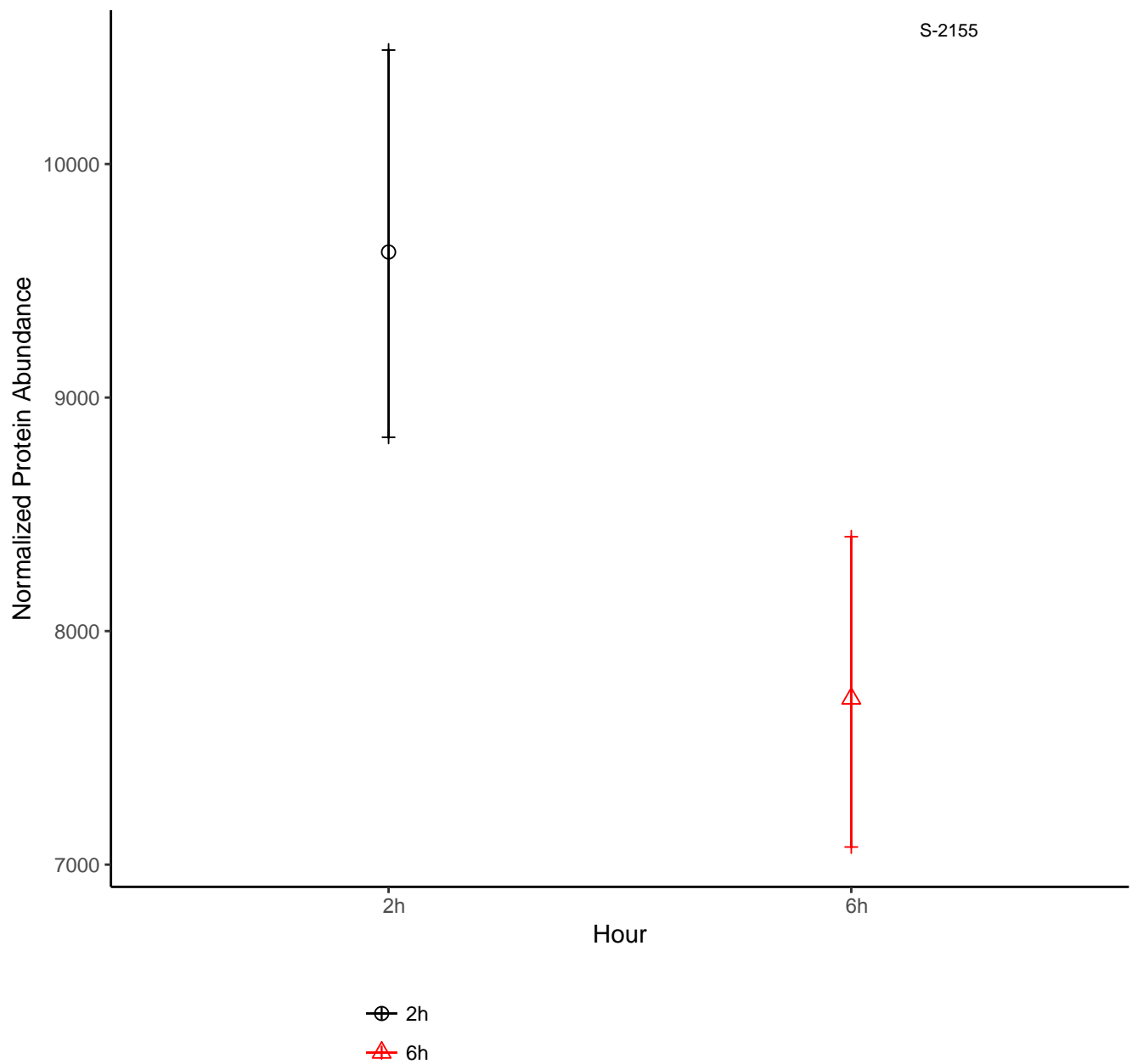


⊕ 2h

△ 6h

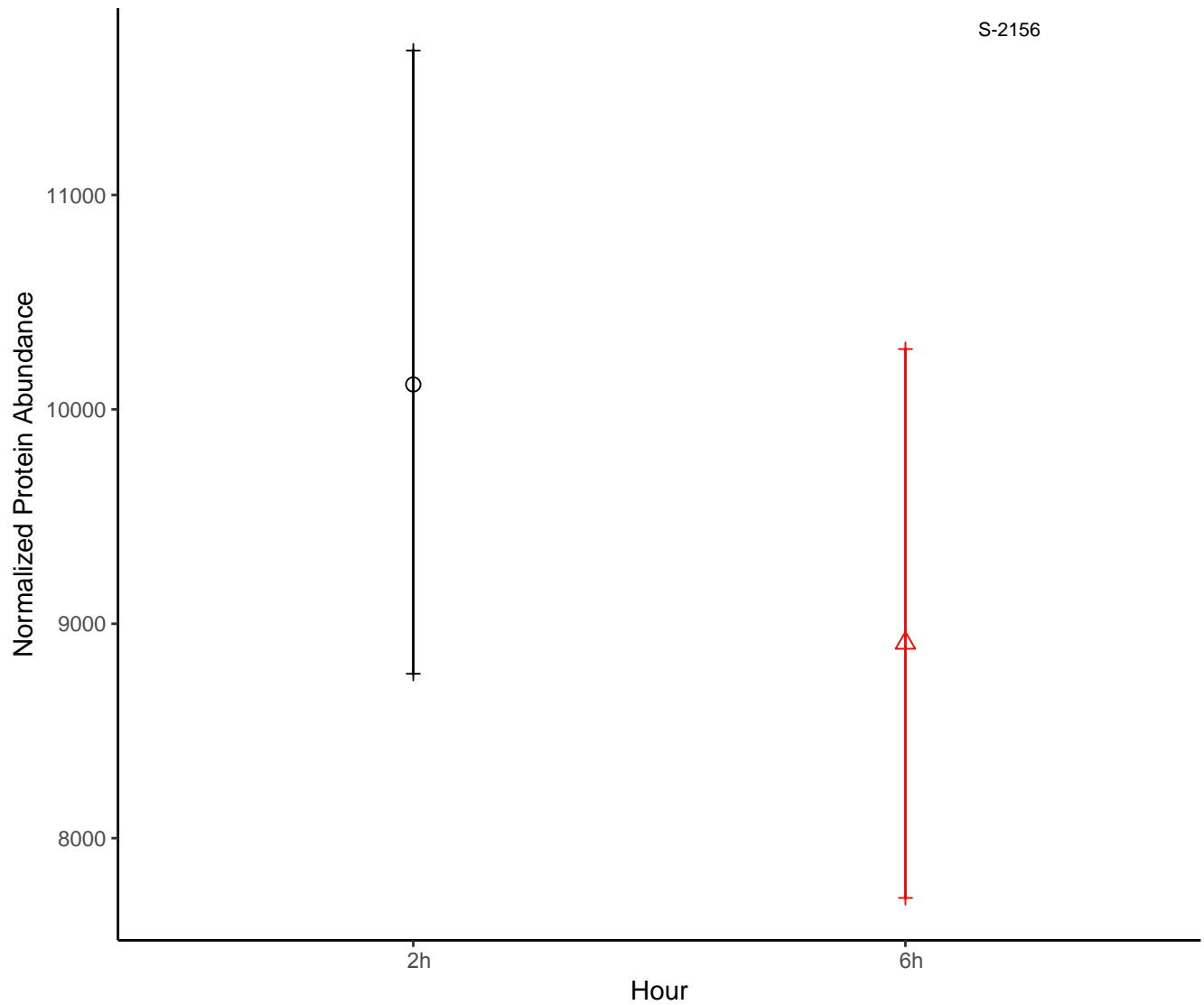
# GRPE\_STAAM

S-2155



# GSA1\_STAAM

S-2156

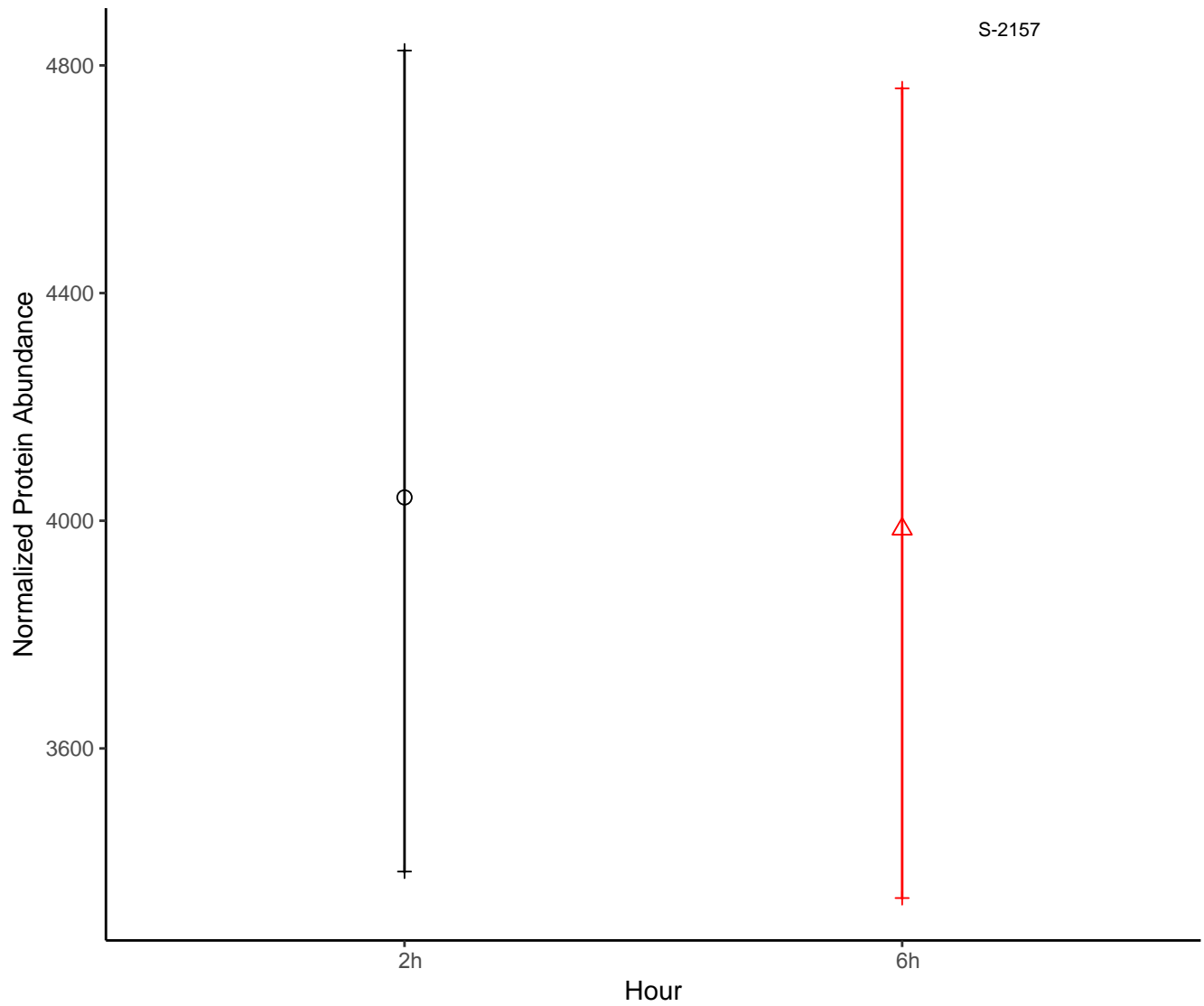


⊕ 2h

△ 6h

# GSA2\_STAAM

S-2157

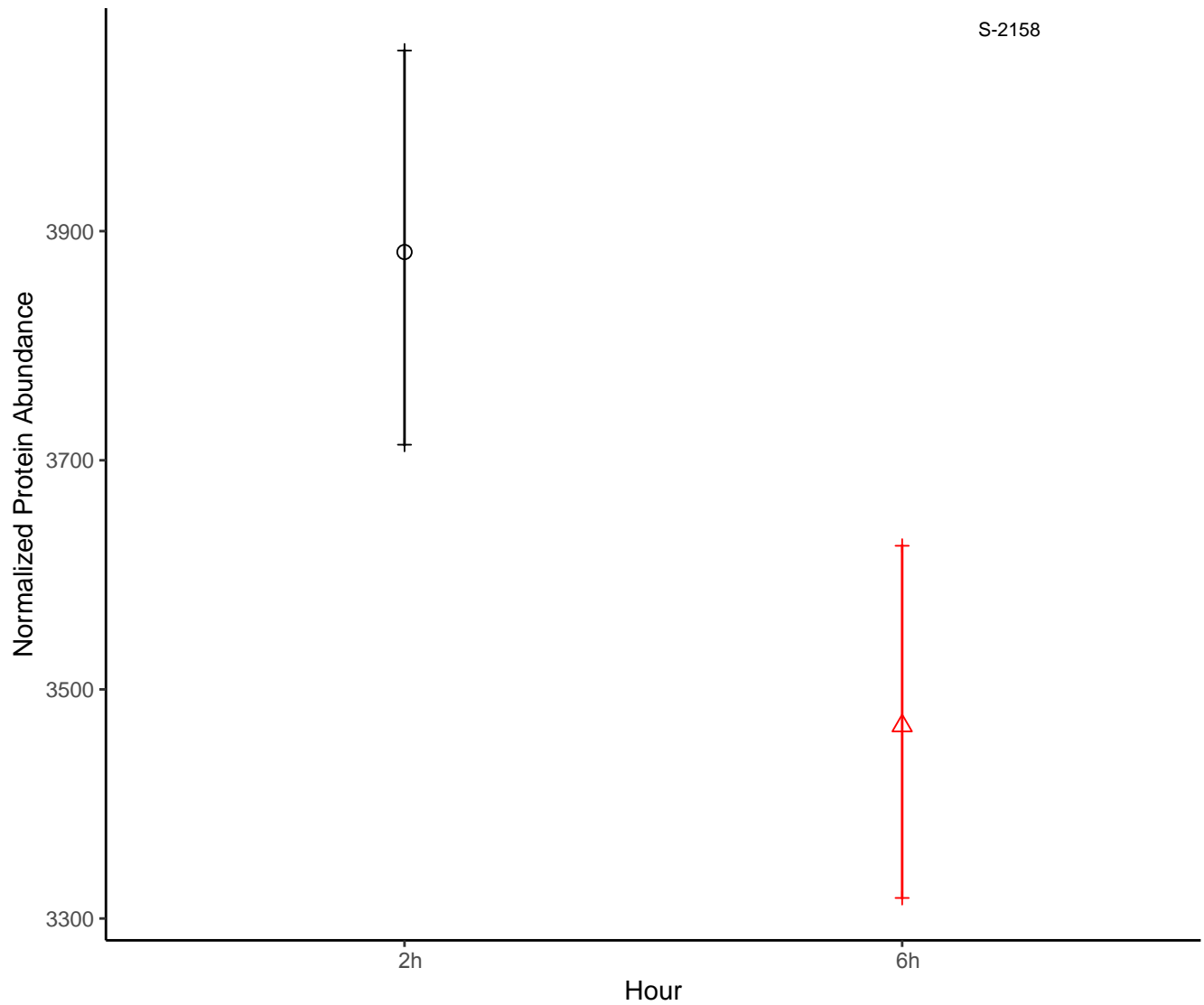


⊕ 2h

△ 6h

# GTAB\_STAAM

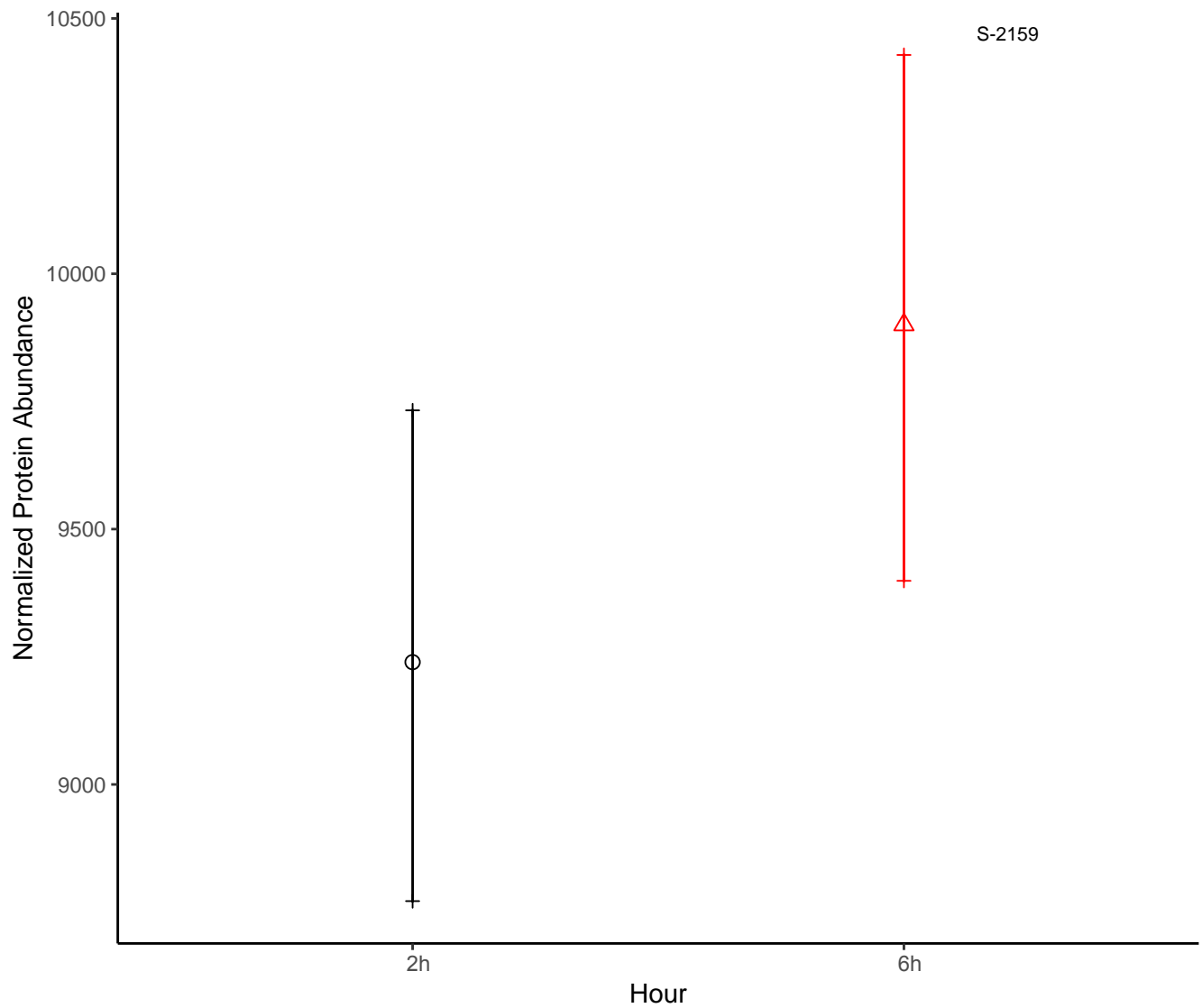
S-2158



⊕ 2h

△ 6h

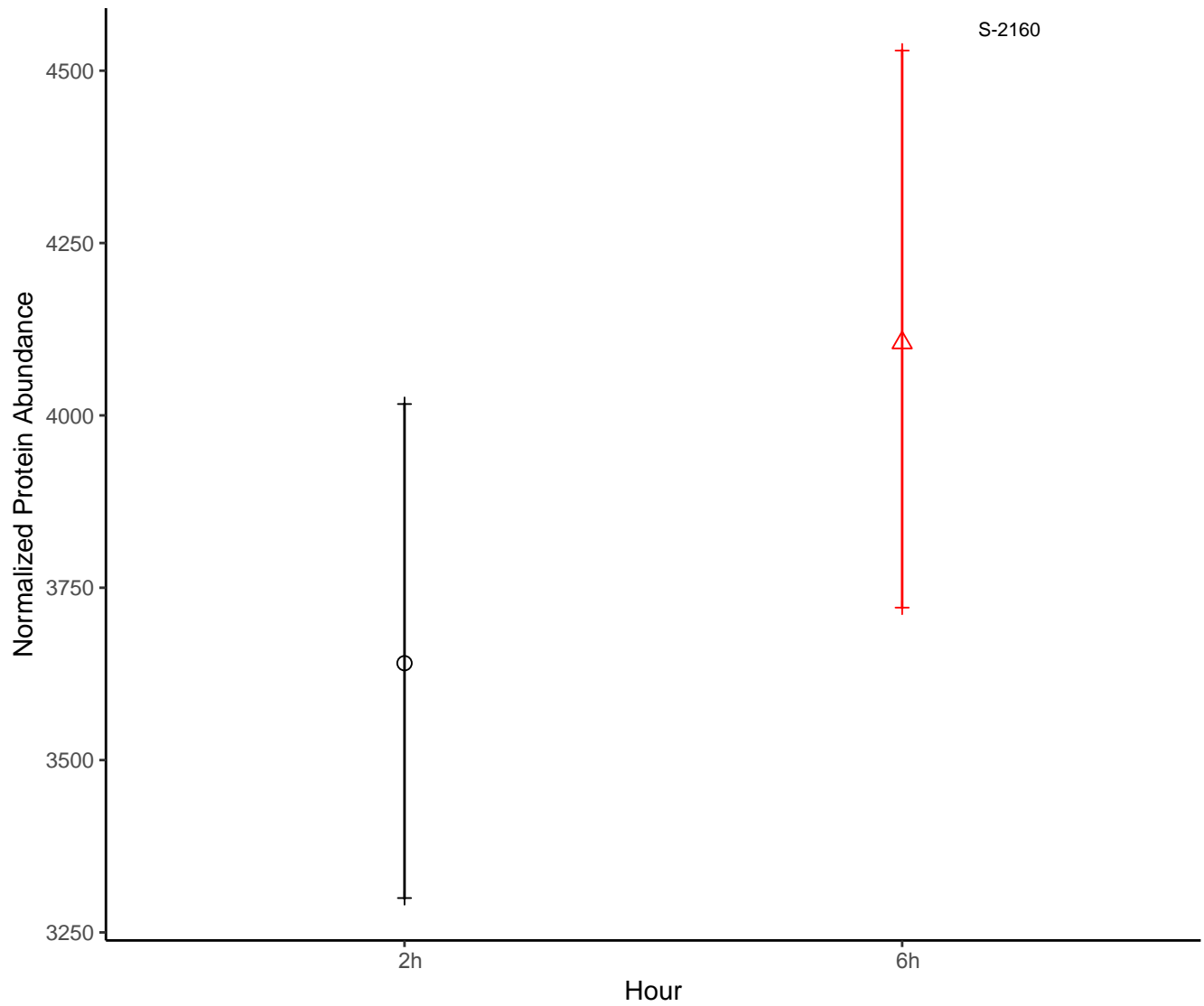
# GUAA\_STAAM



⊕ 2h

△ 6h

# GUAC\_STAAM



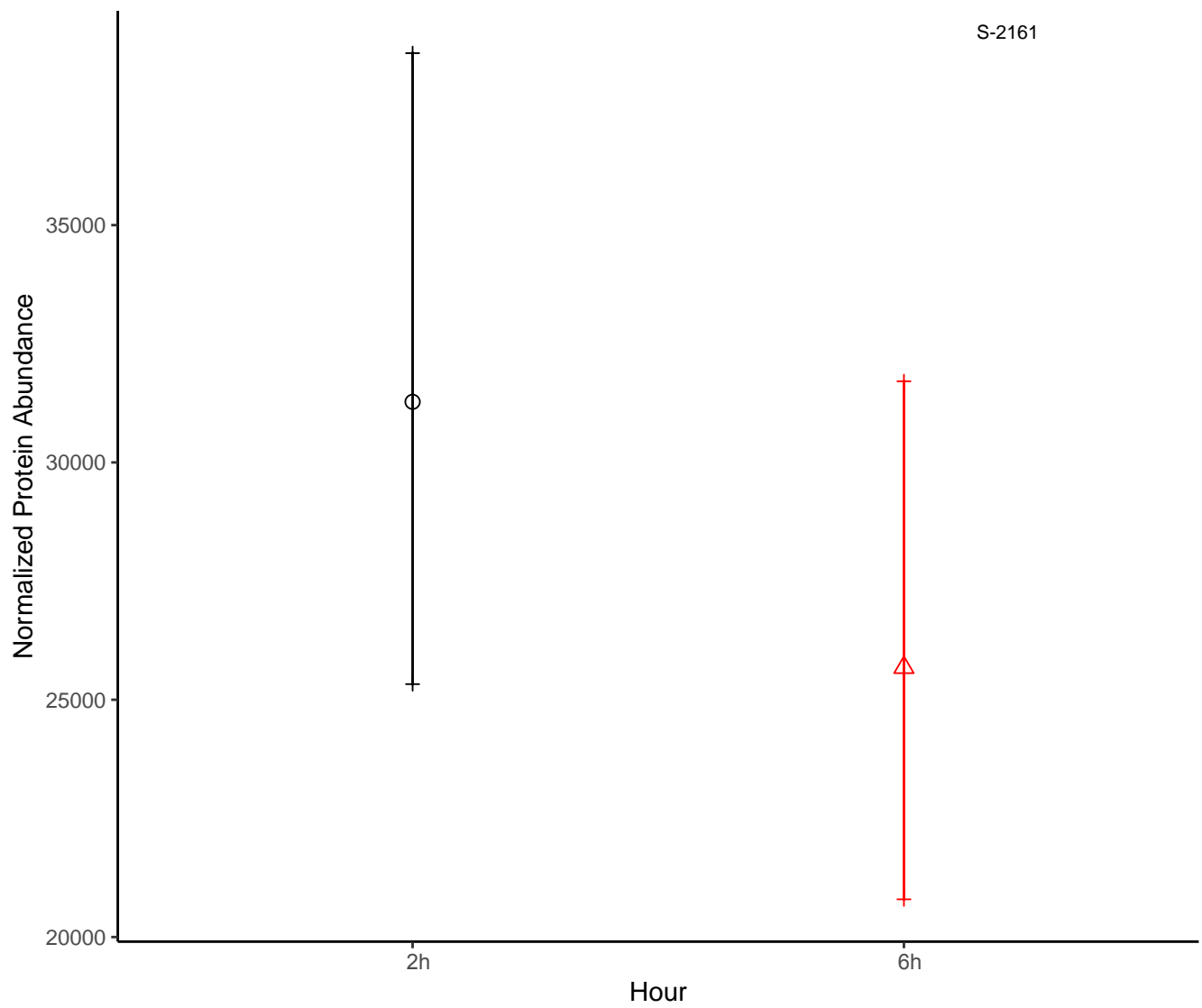
⊕ 2h

△ 6h



# GYRB\_STAAM

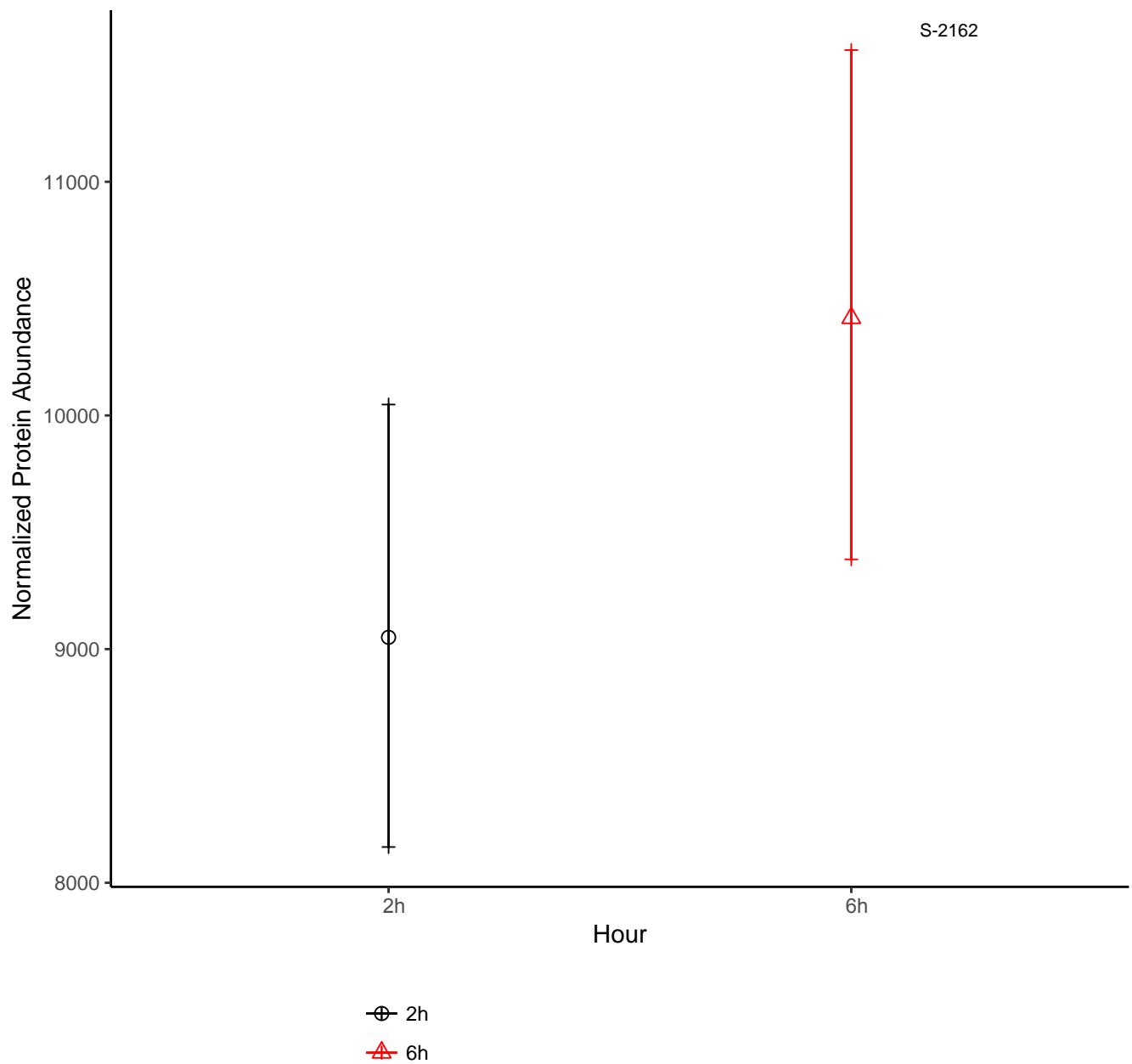
S-2161



⊕ 2h

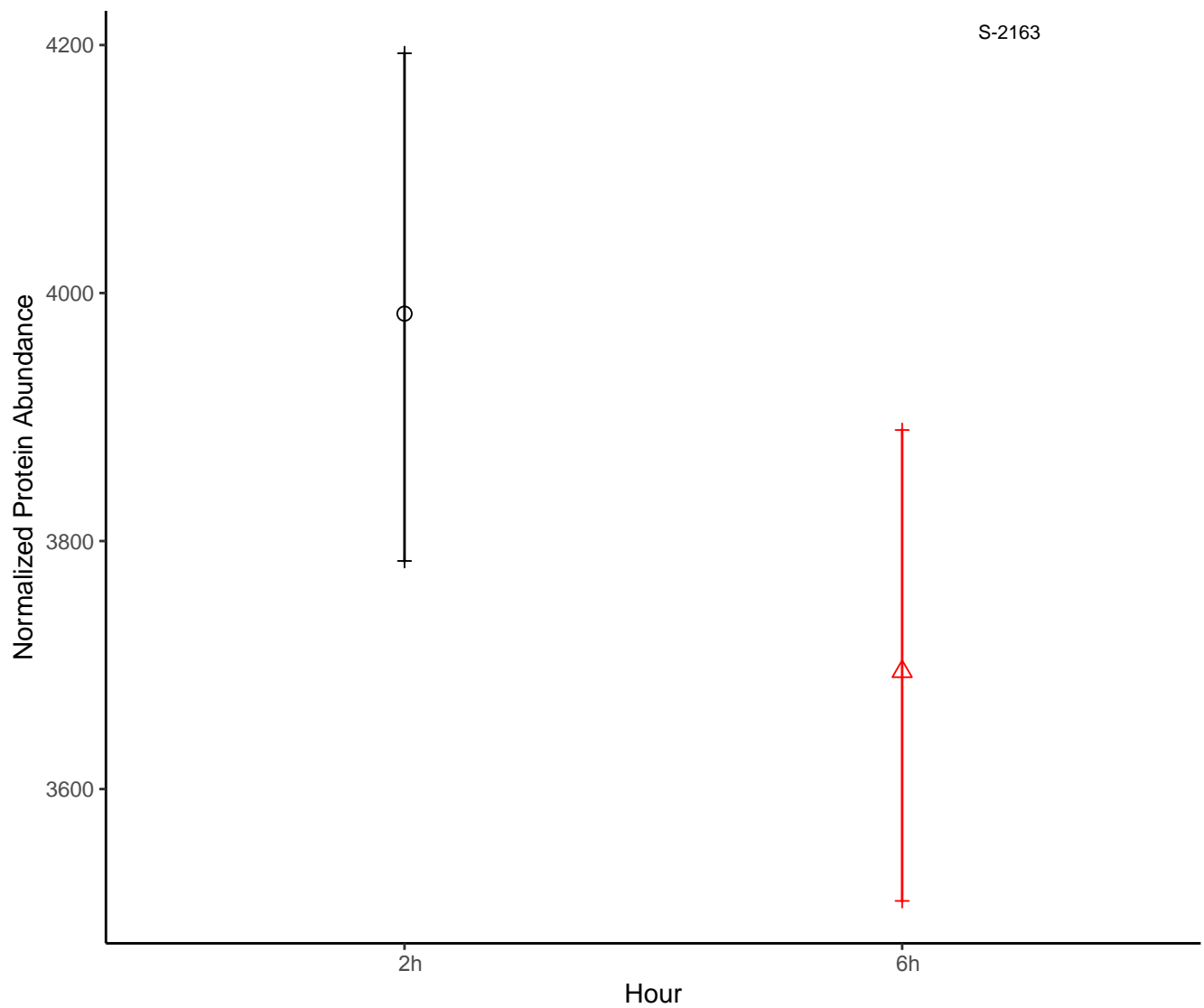
△ 6h

# HCHA\_STAAM



# HEM2\_STAAM

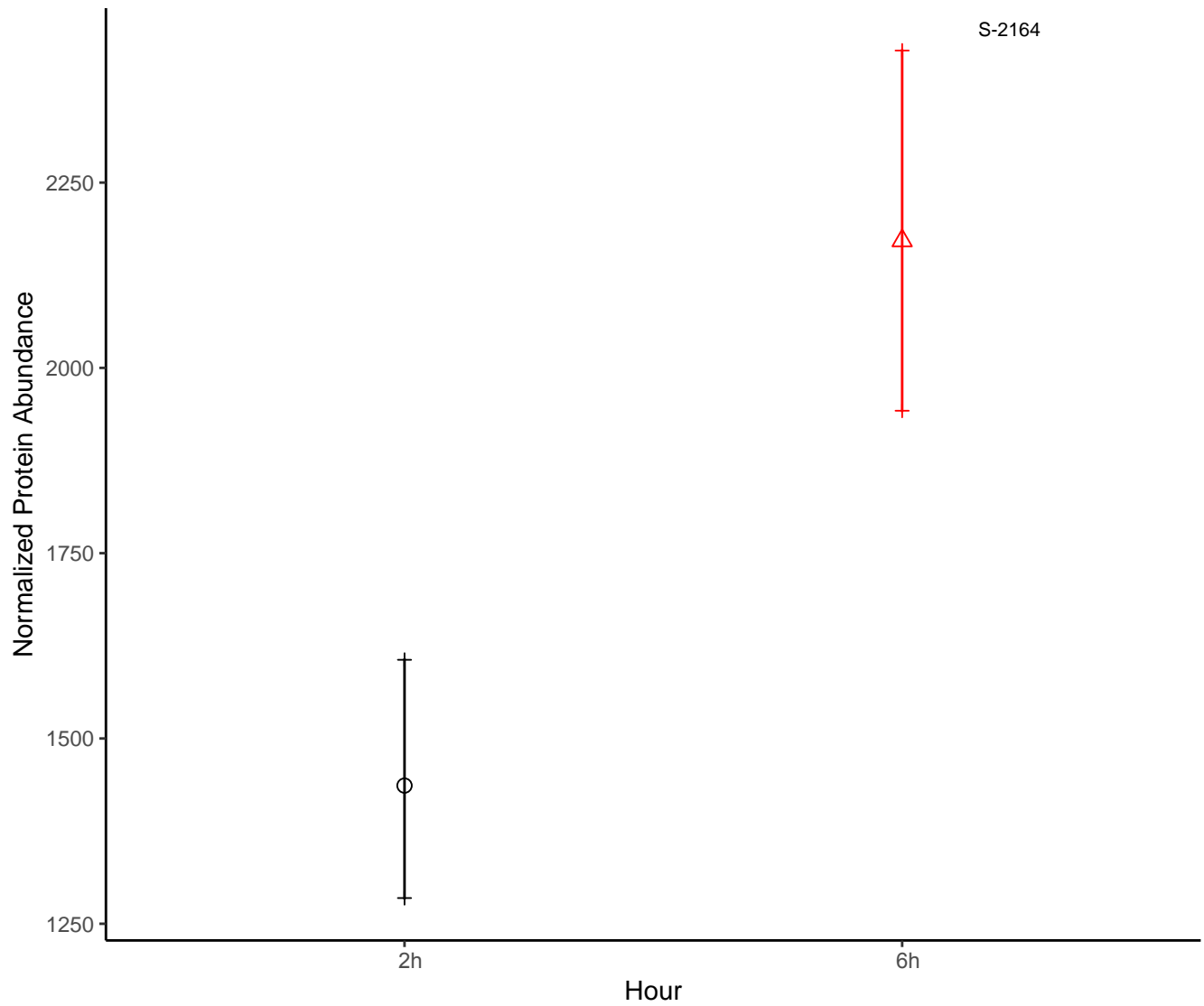
S-2163



⊕ 2h

△ 6h

# HEM3\_STAAM

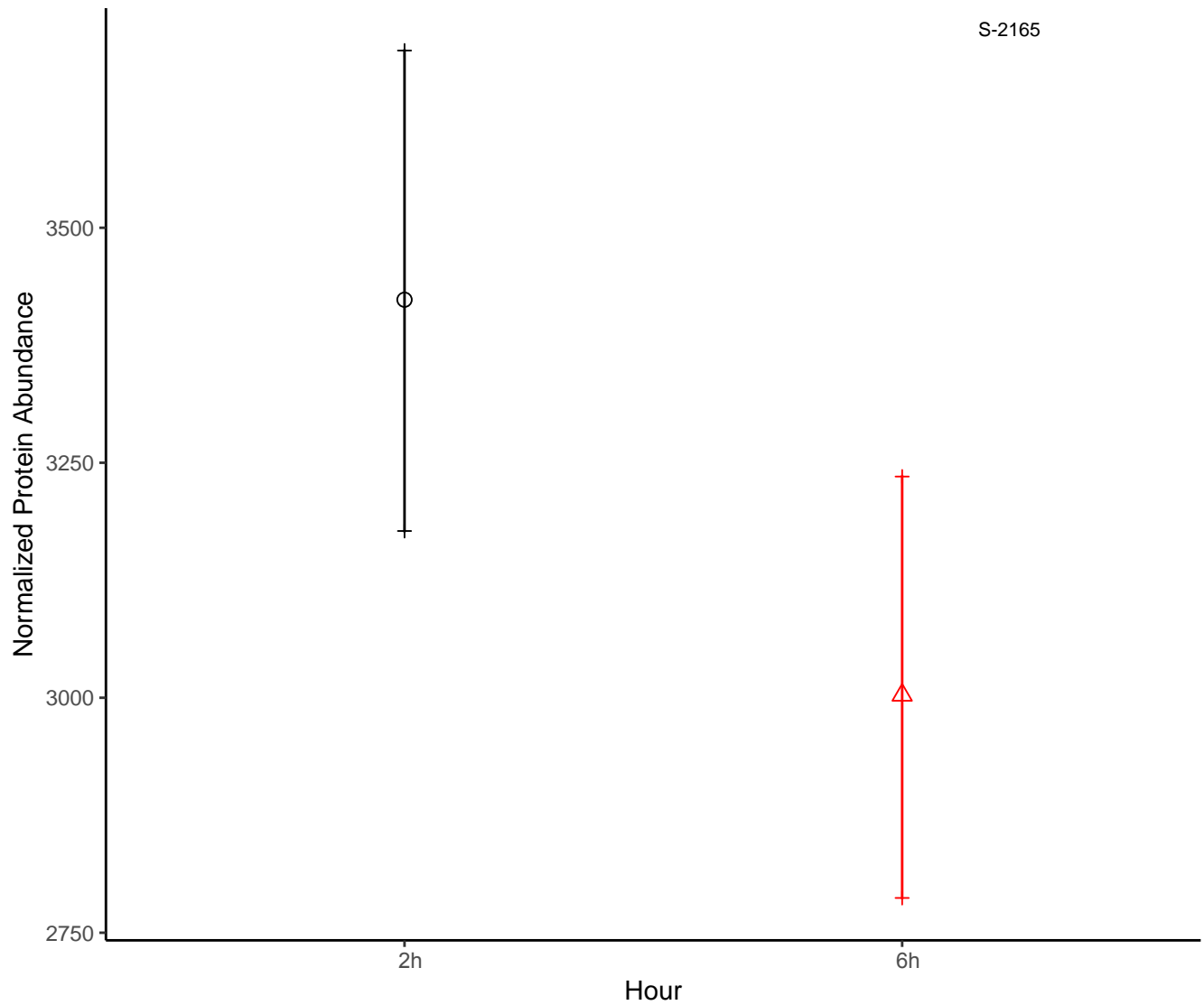


⊕ 2h

△ 6h

# HLD\_STAAM

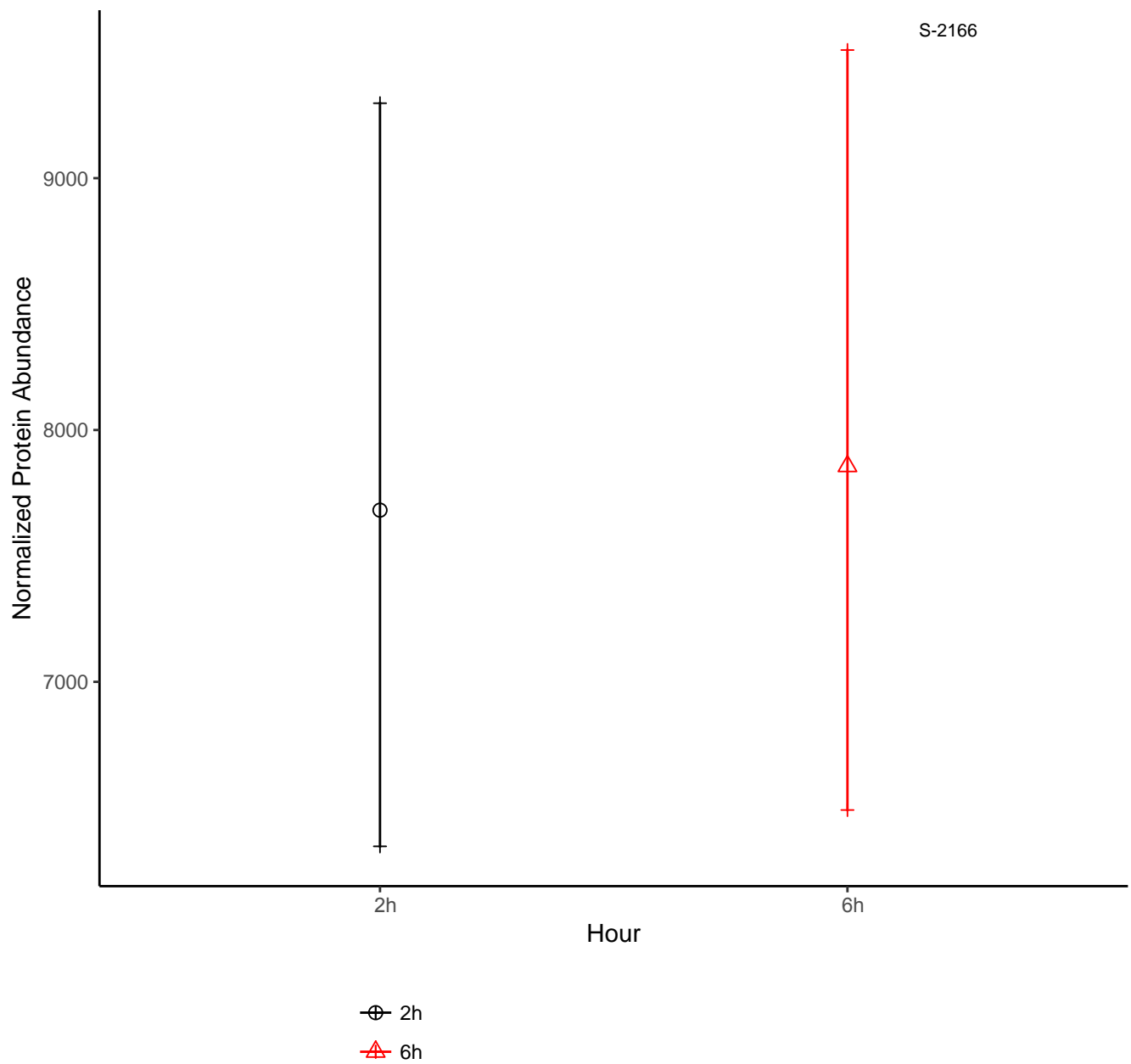
S-2165



⊕ 2h

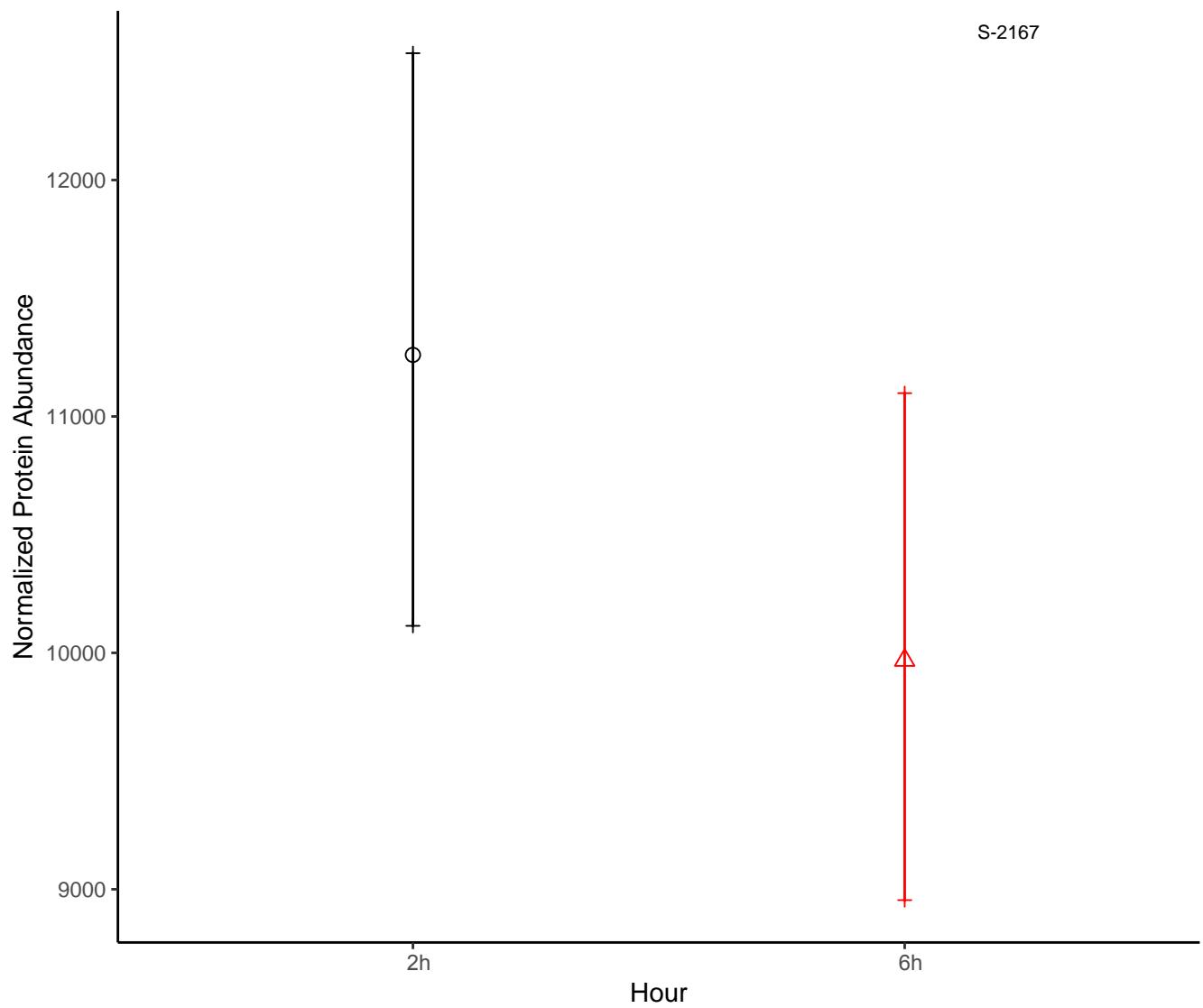
△ 6h

# HPRK\_STAAM



# HPRT\_STAAM

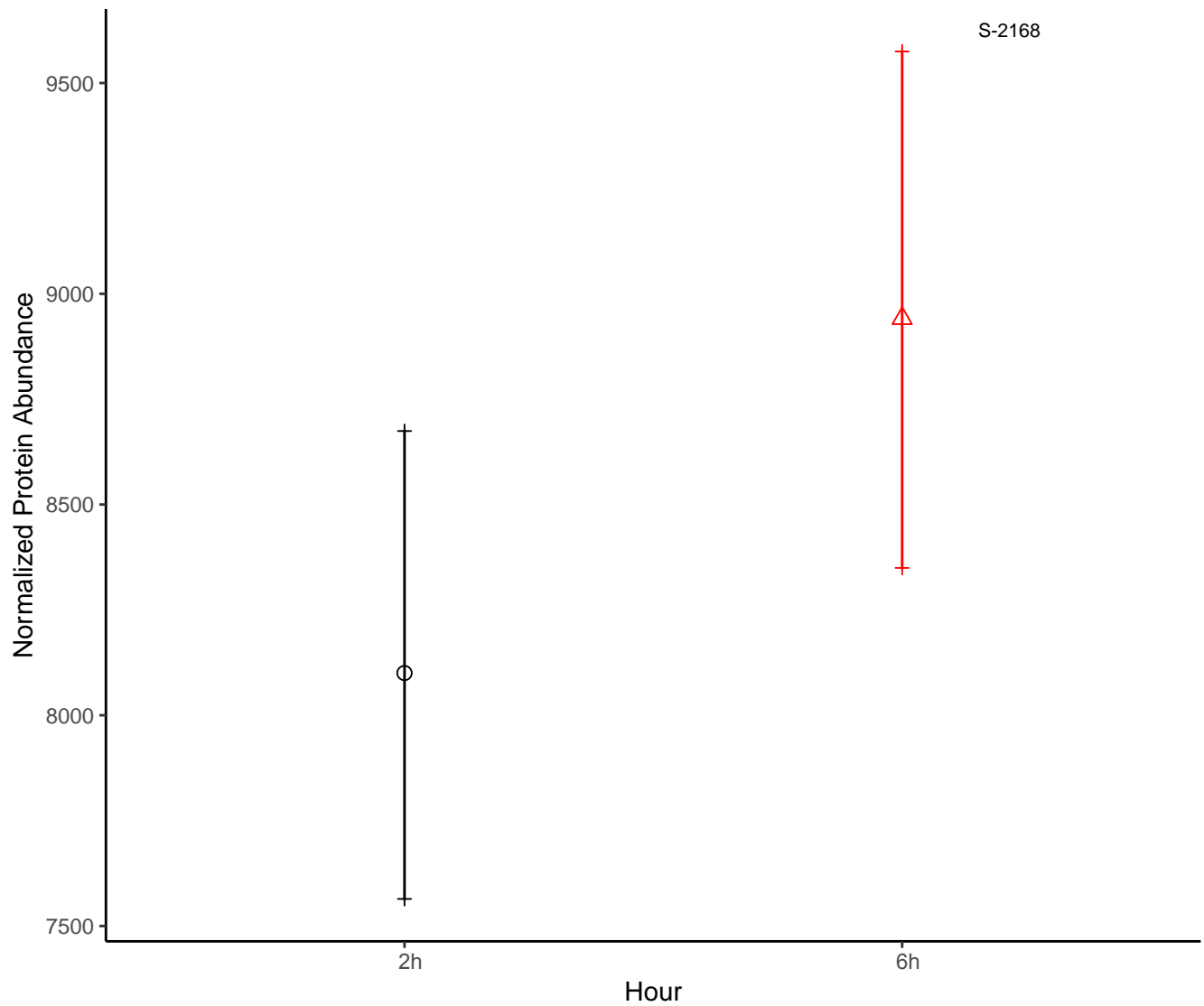
S-2167



⊕ 2h

△ 6h

# HPS\_STAAM

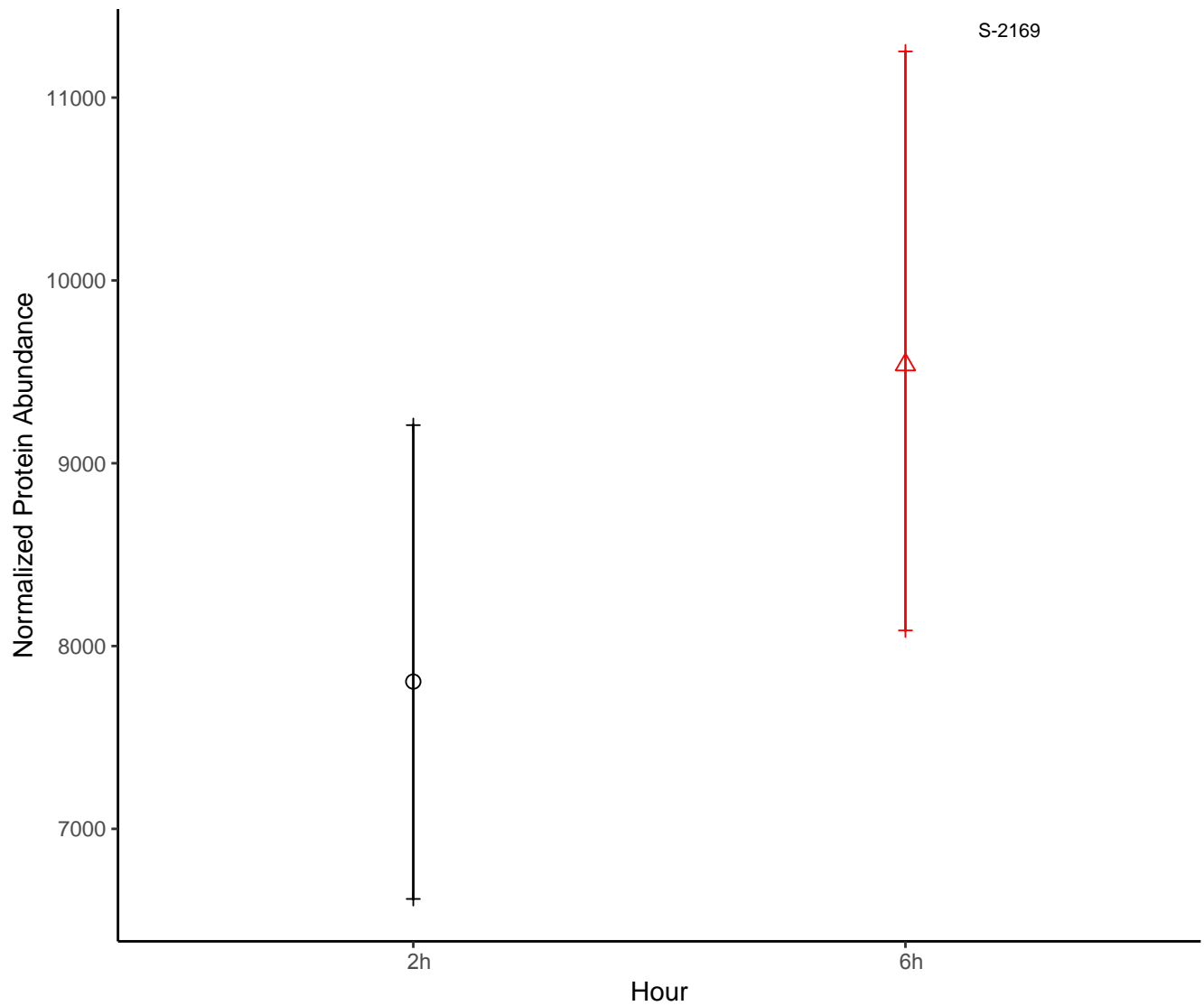


⊕ 2h

△ 6h



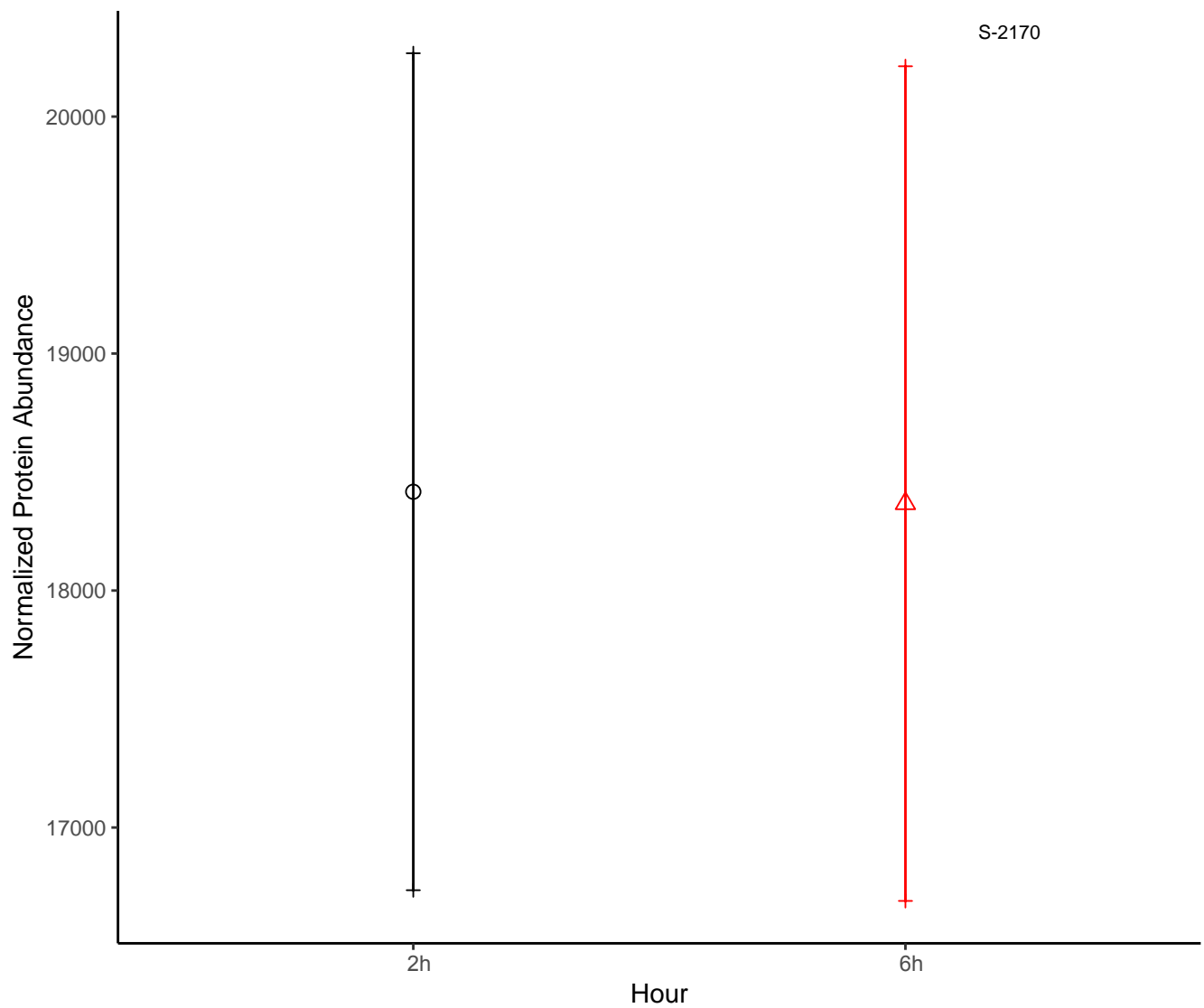
# HRTA\_STAAM



⊕ 2h

△ 6h

# HSLO\_STAAM

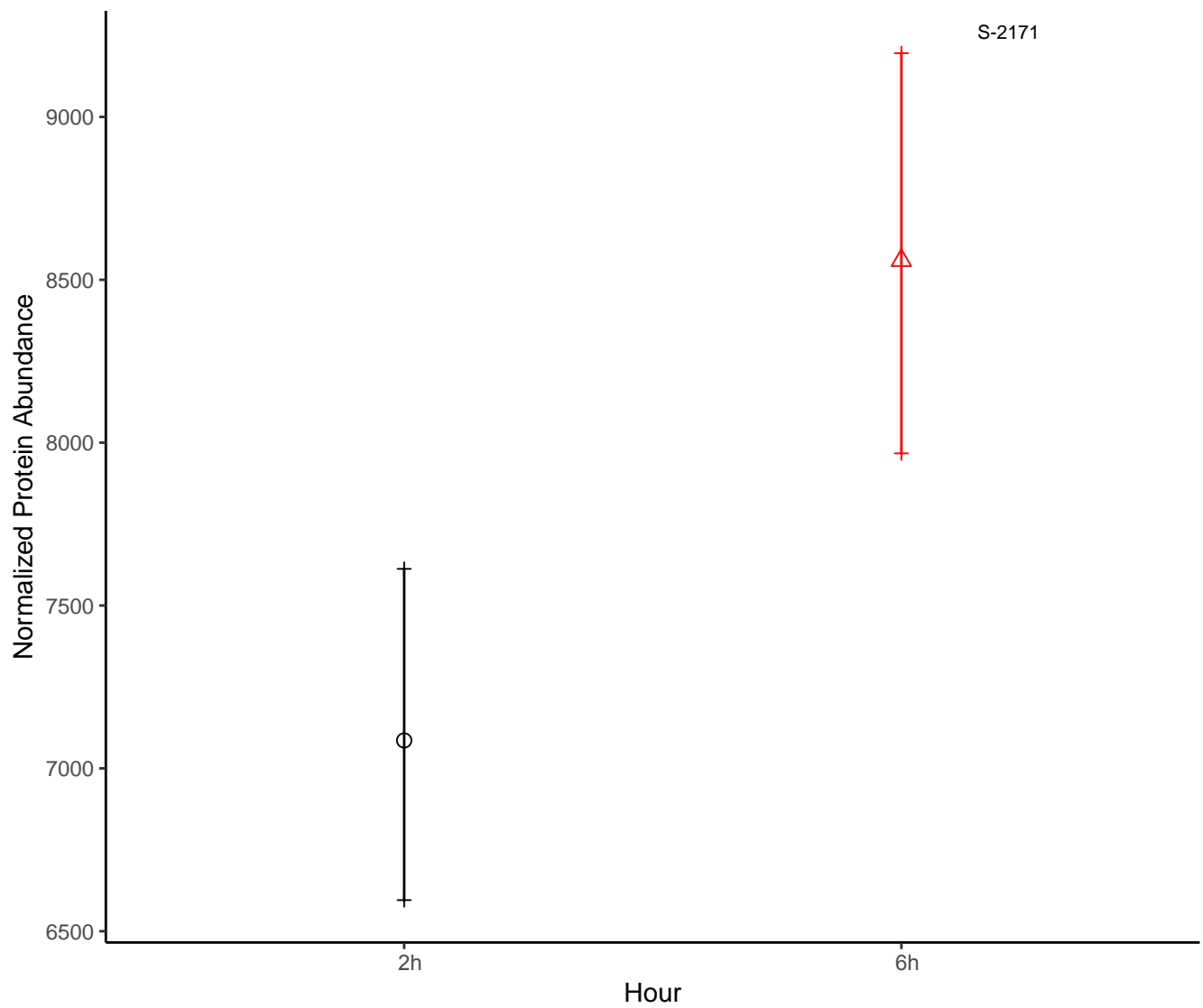


S-2170

⊕ 2h

△ 6h

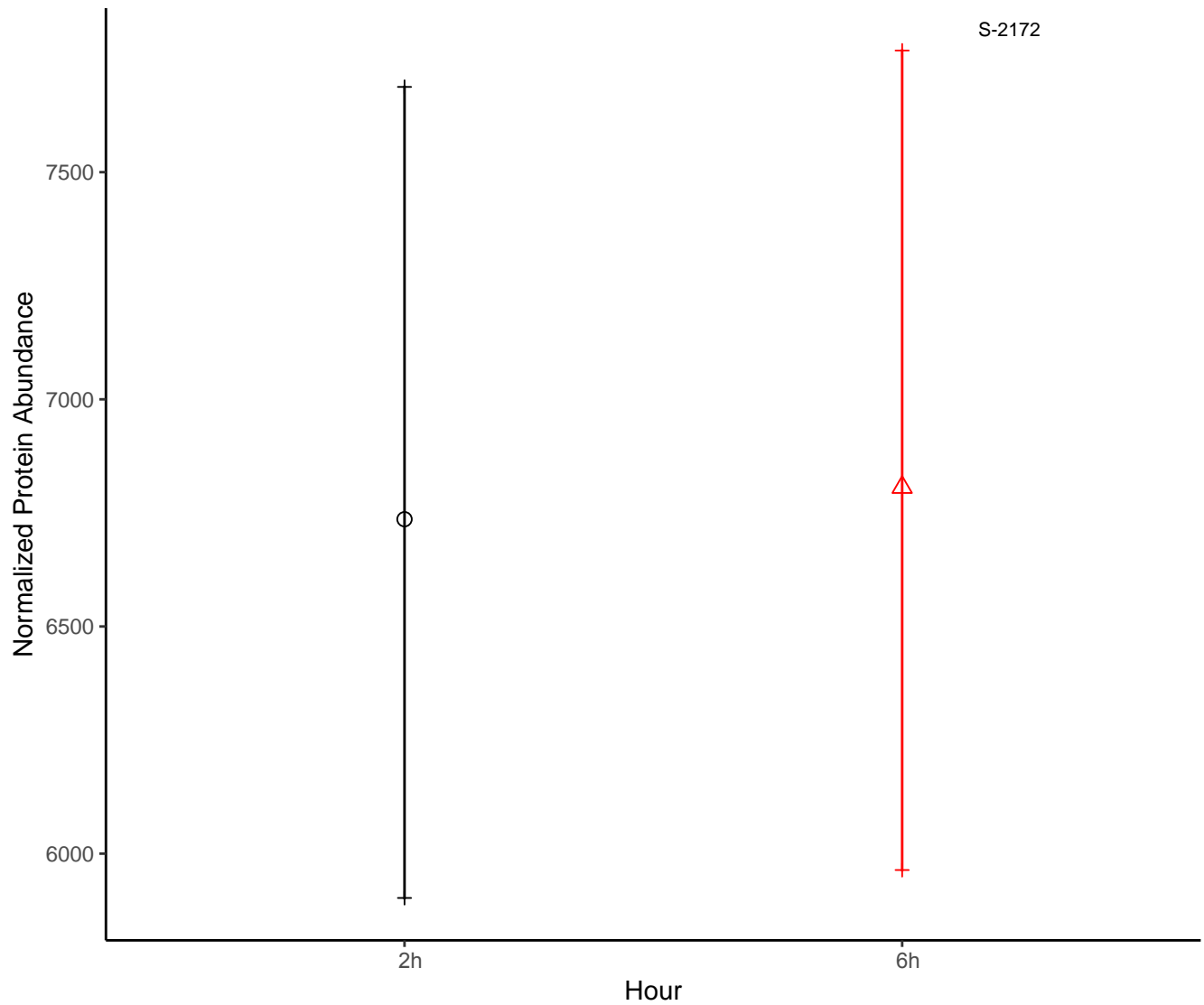
# HSLU\_STAAM



⊕ 2h

△ 6h

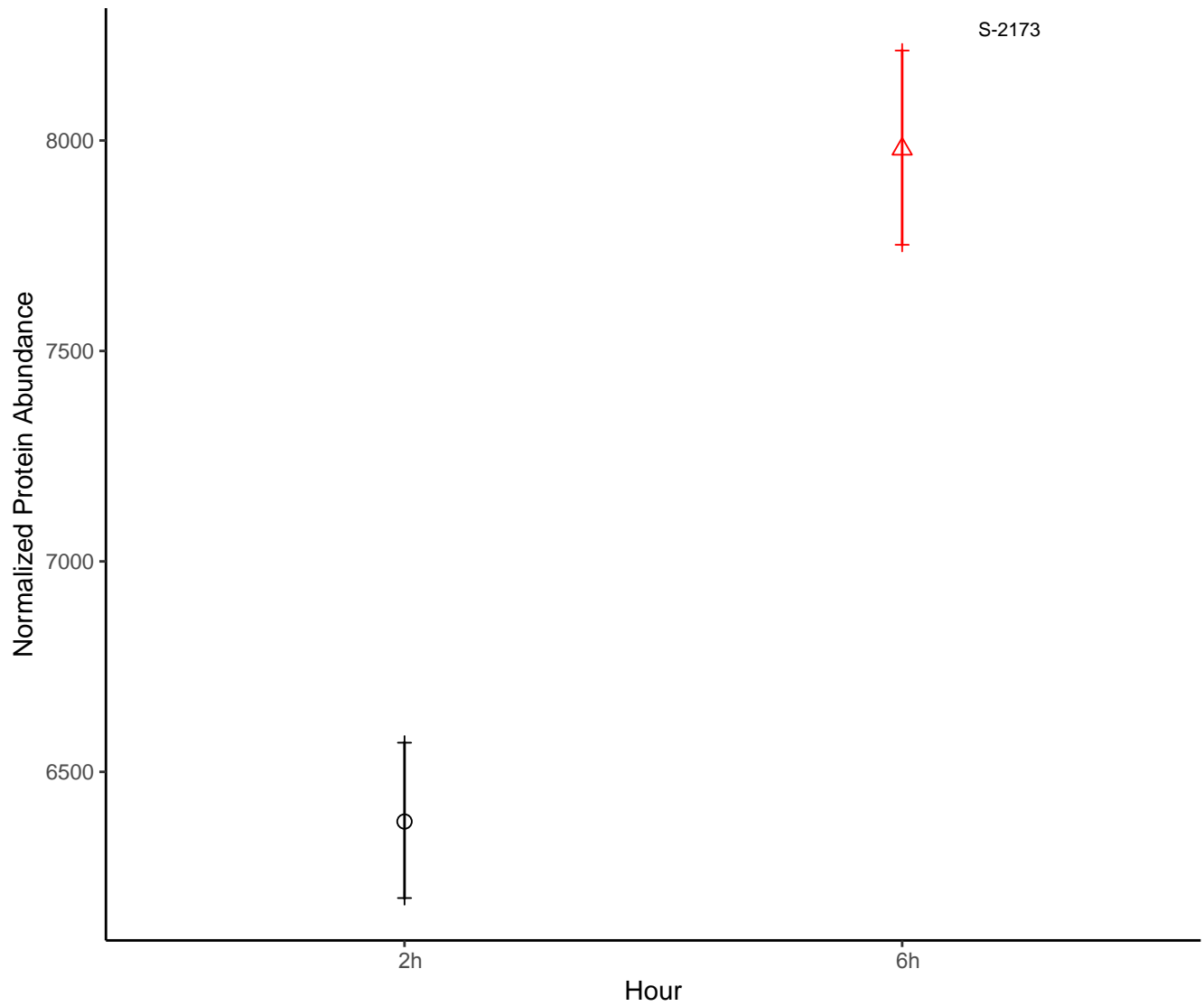
# HSLV\_STAAM



⊕ 2h

△ 6h

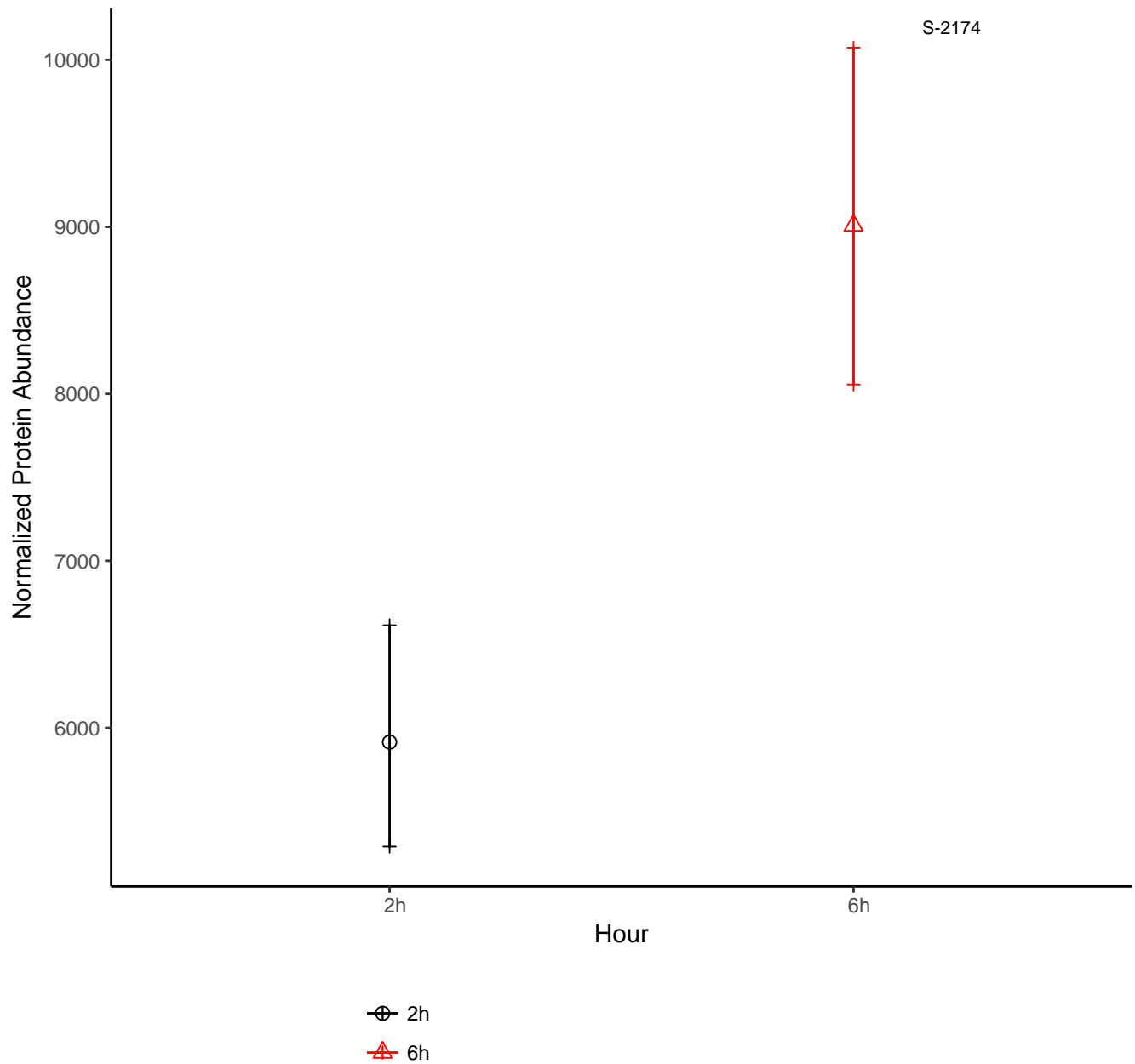
# HUTH\_STAAM



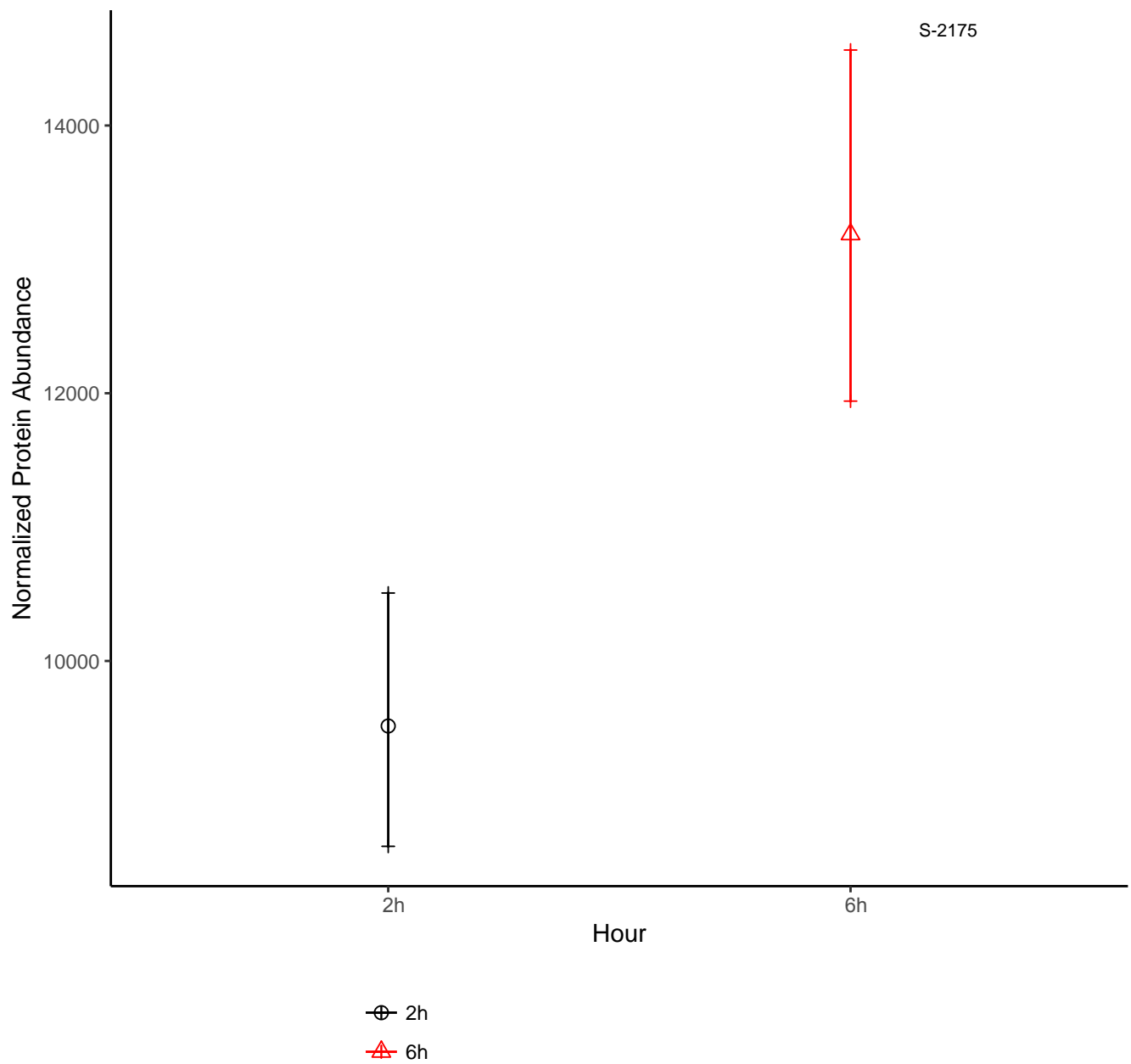
⊕ 2h

△ 6h

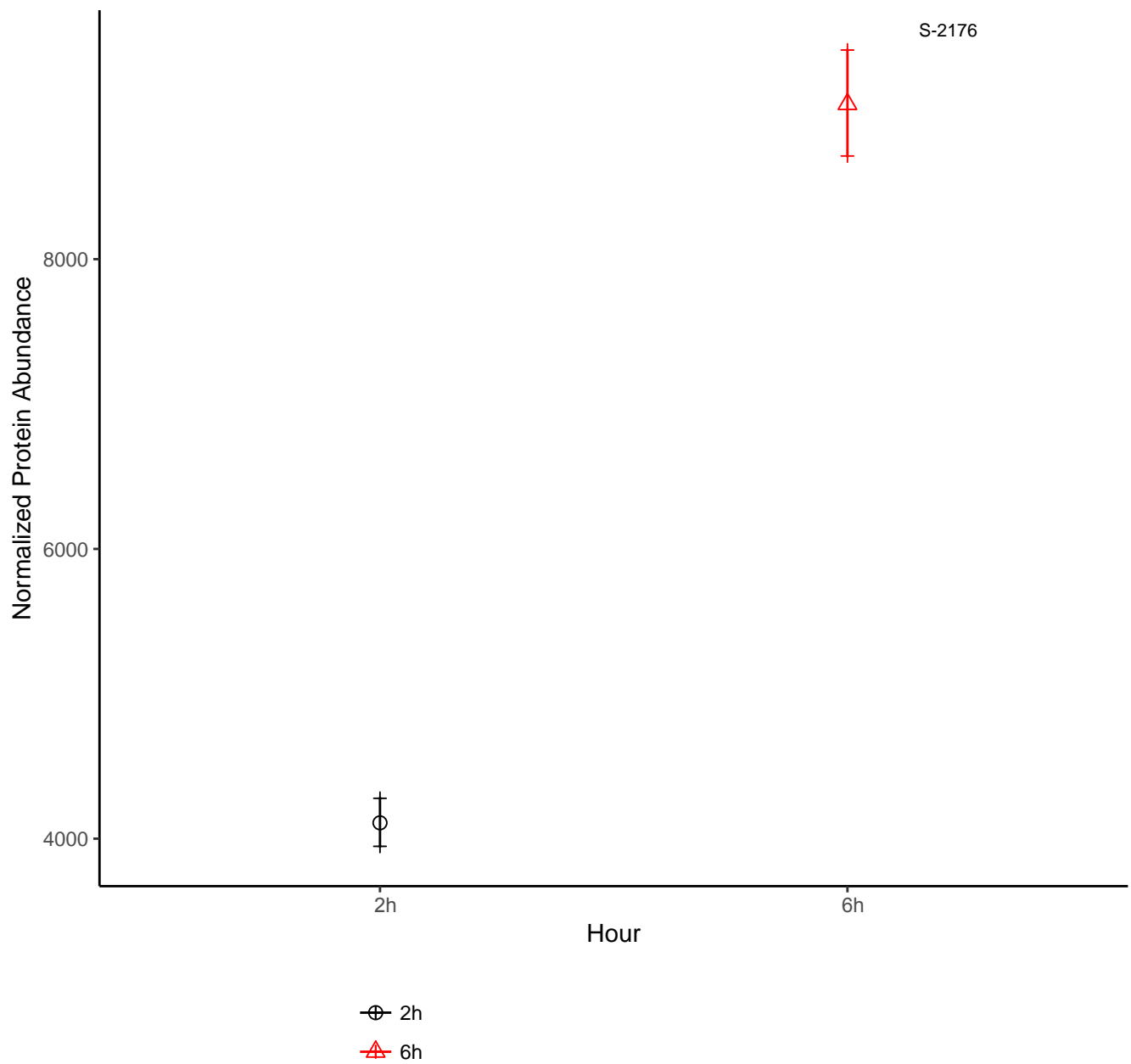
# HUTI\_STAAM



# HUTU\_STAAM

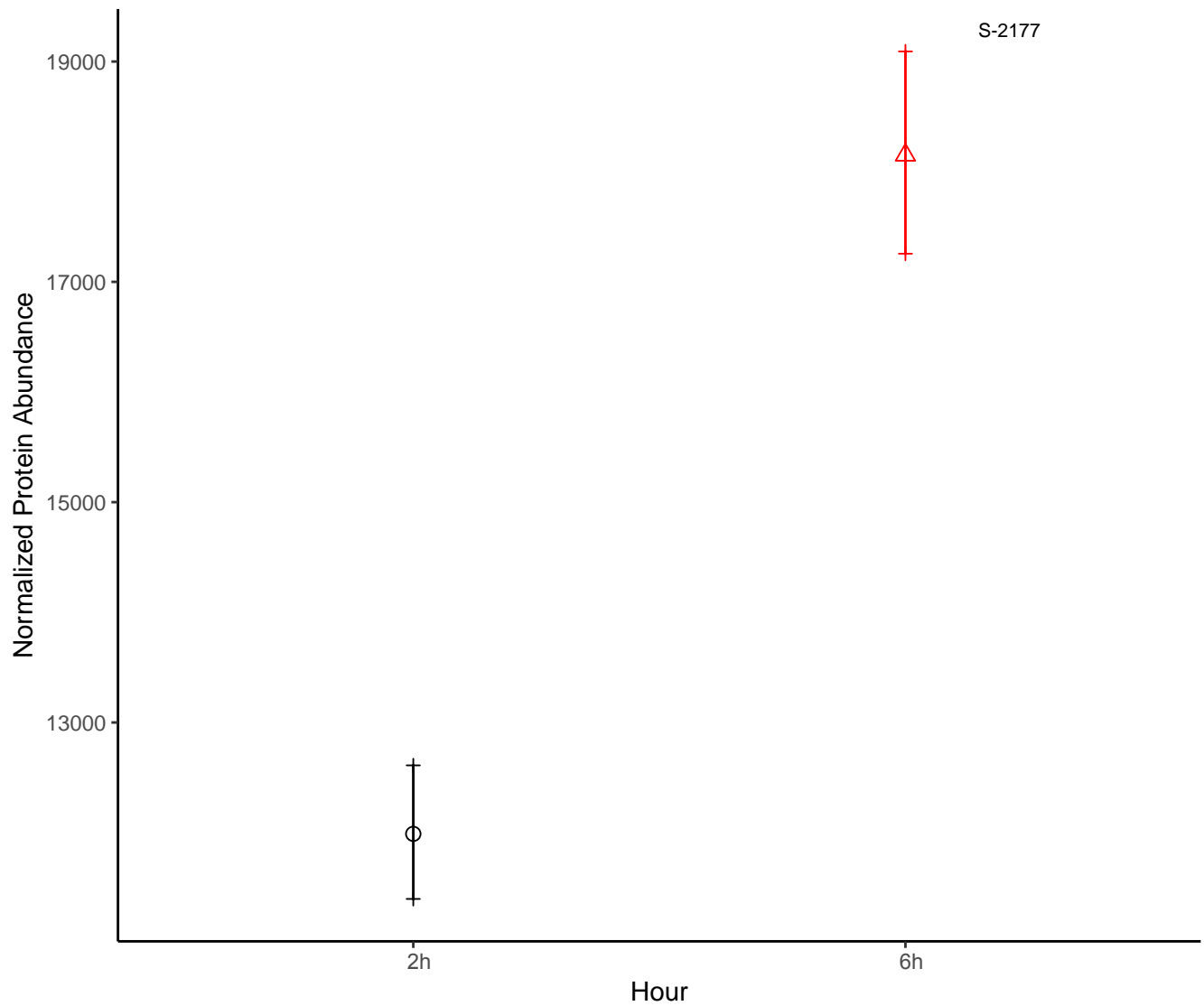


# ICAB\_STAAM





# IDH\_STAAM

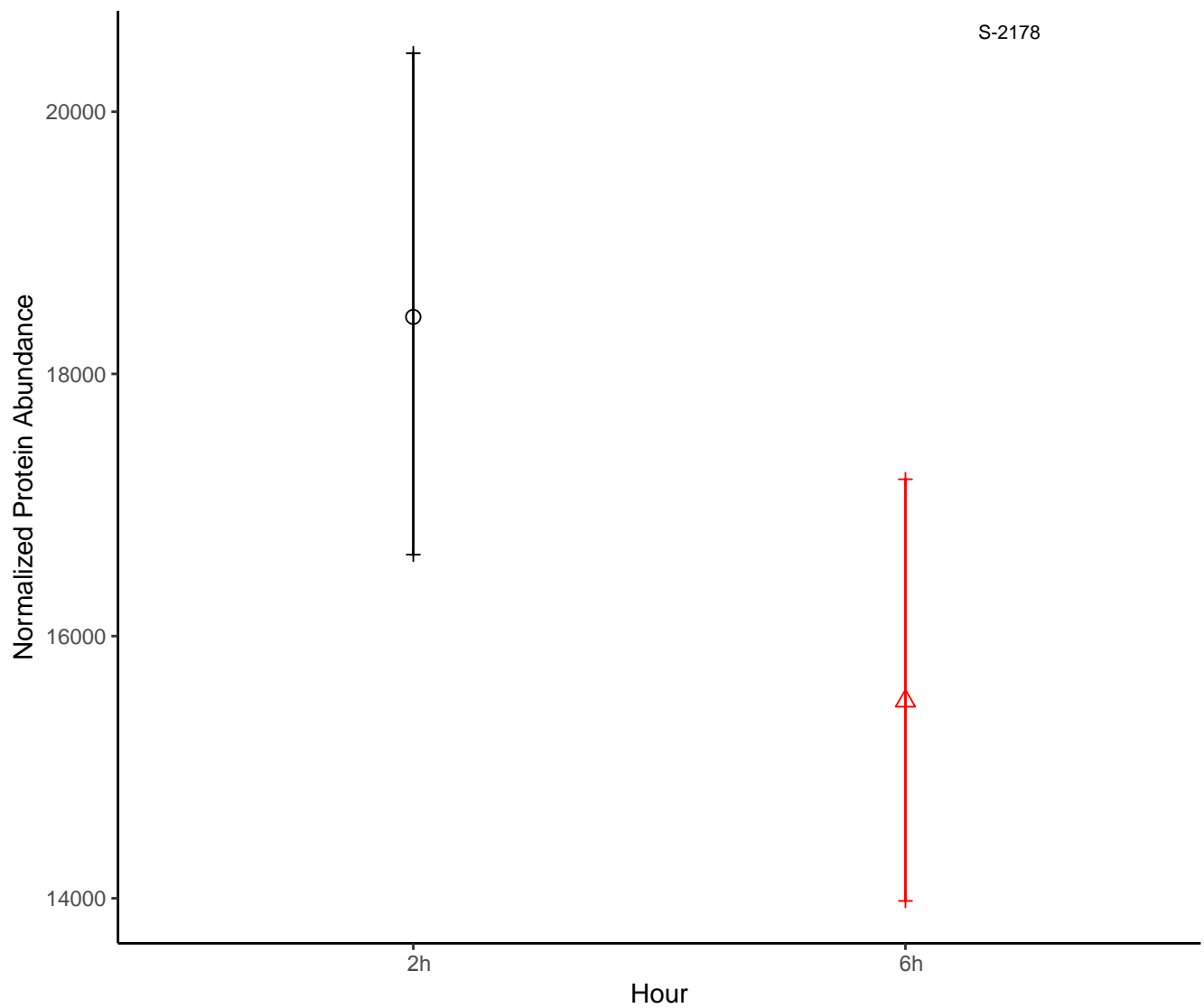


⊕ 2h

△ 6h

# IF1\_STAAM

S-2178

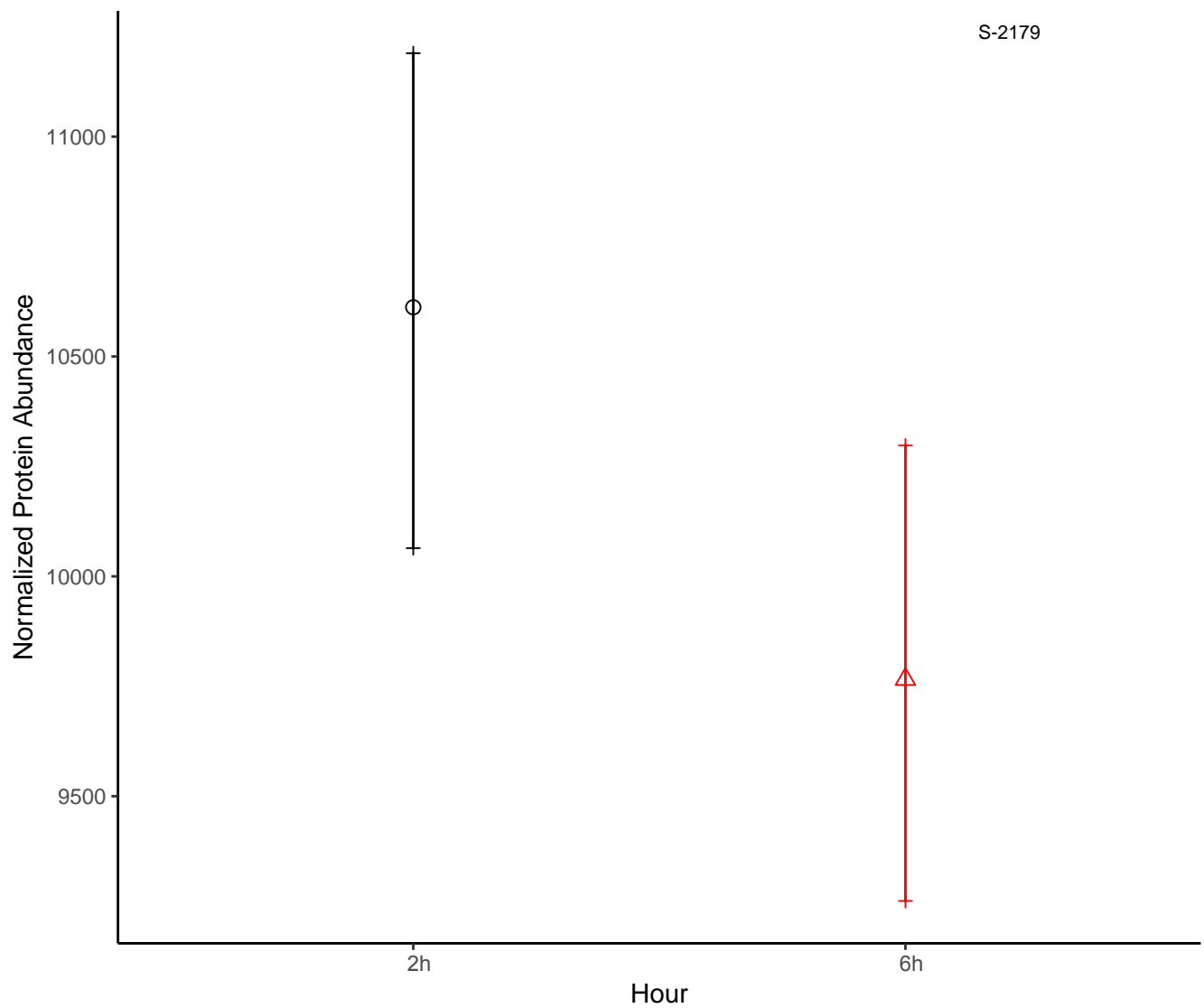


⊕ 2h

△ 6h

# IF2\_STAAM

S-2179

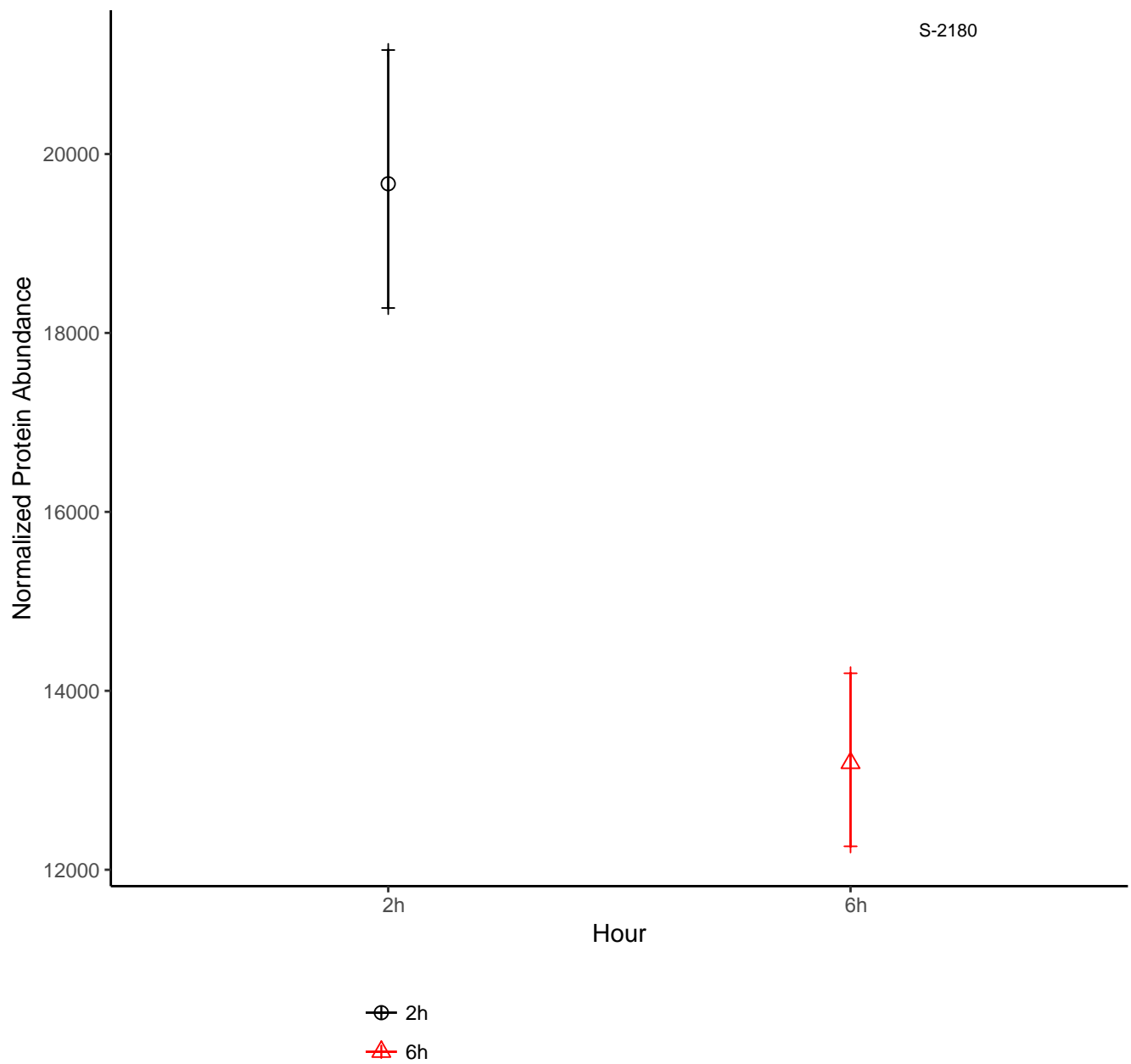


⊕ 2h

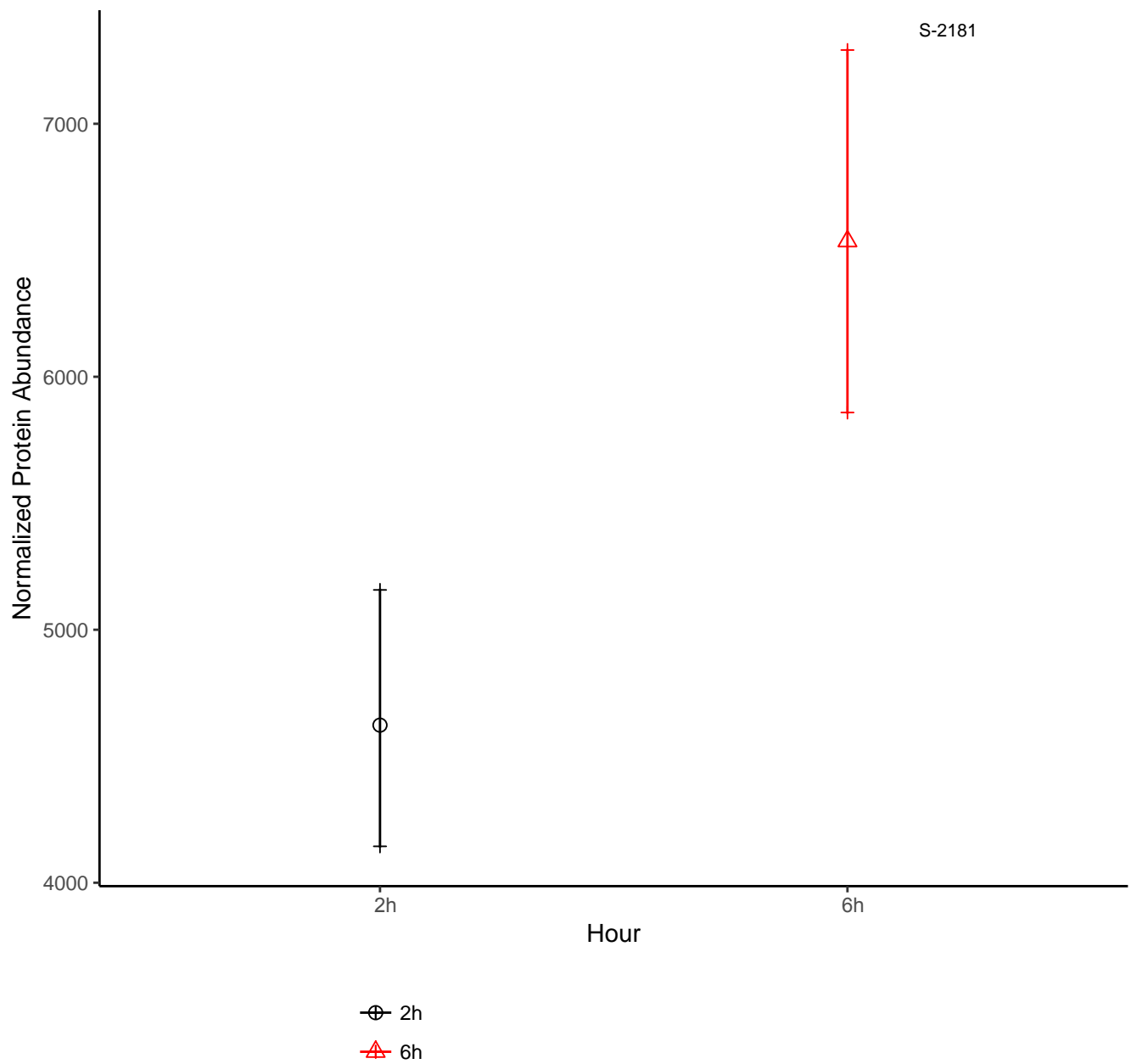
△ 6h

# IF3\_STAAM

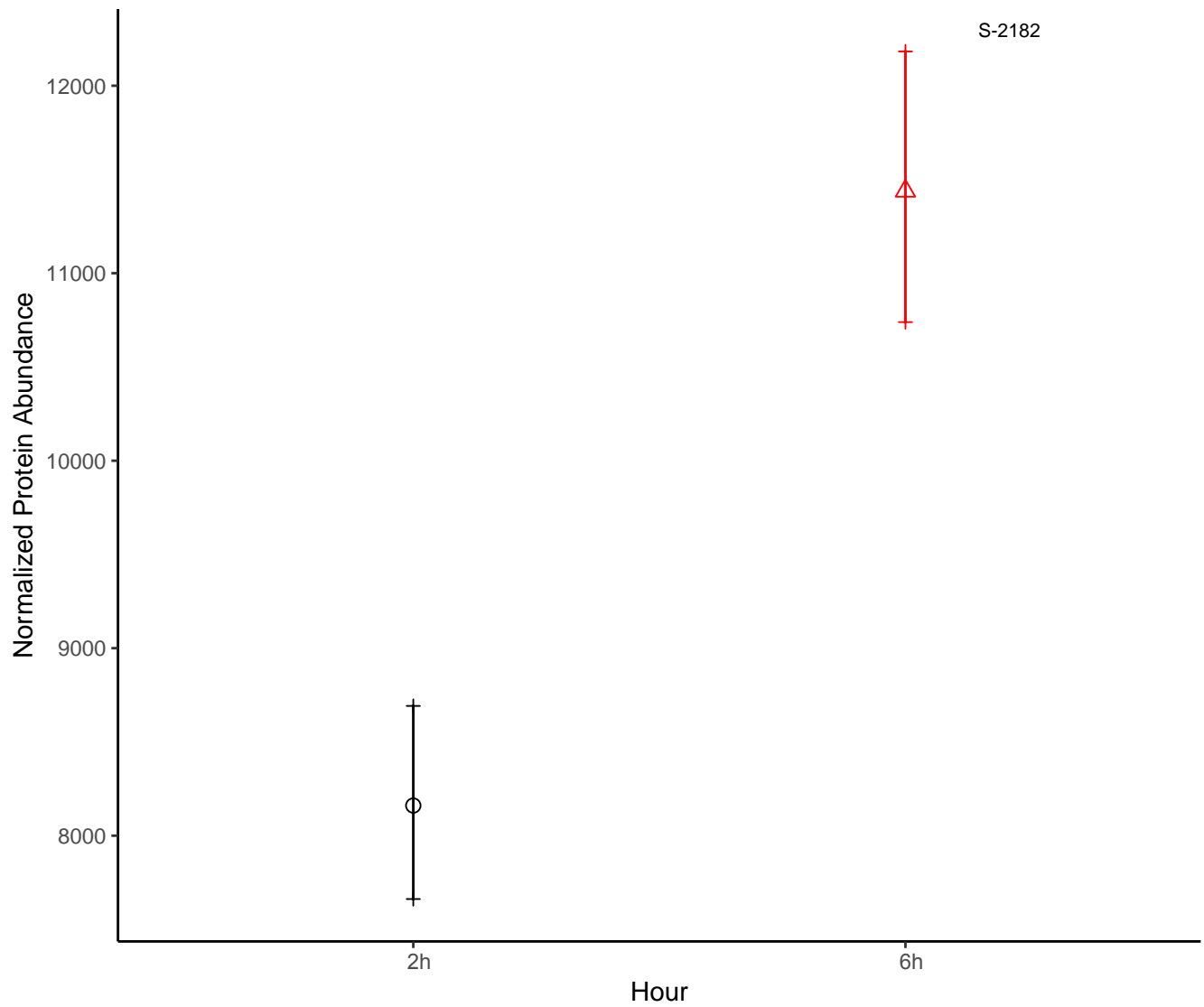
S-2180



# ILVC\_STAAM



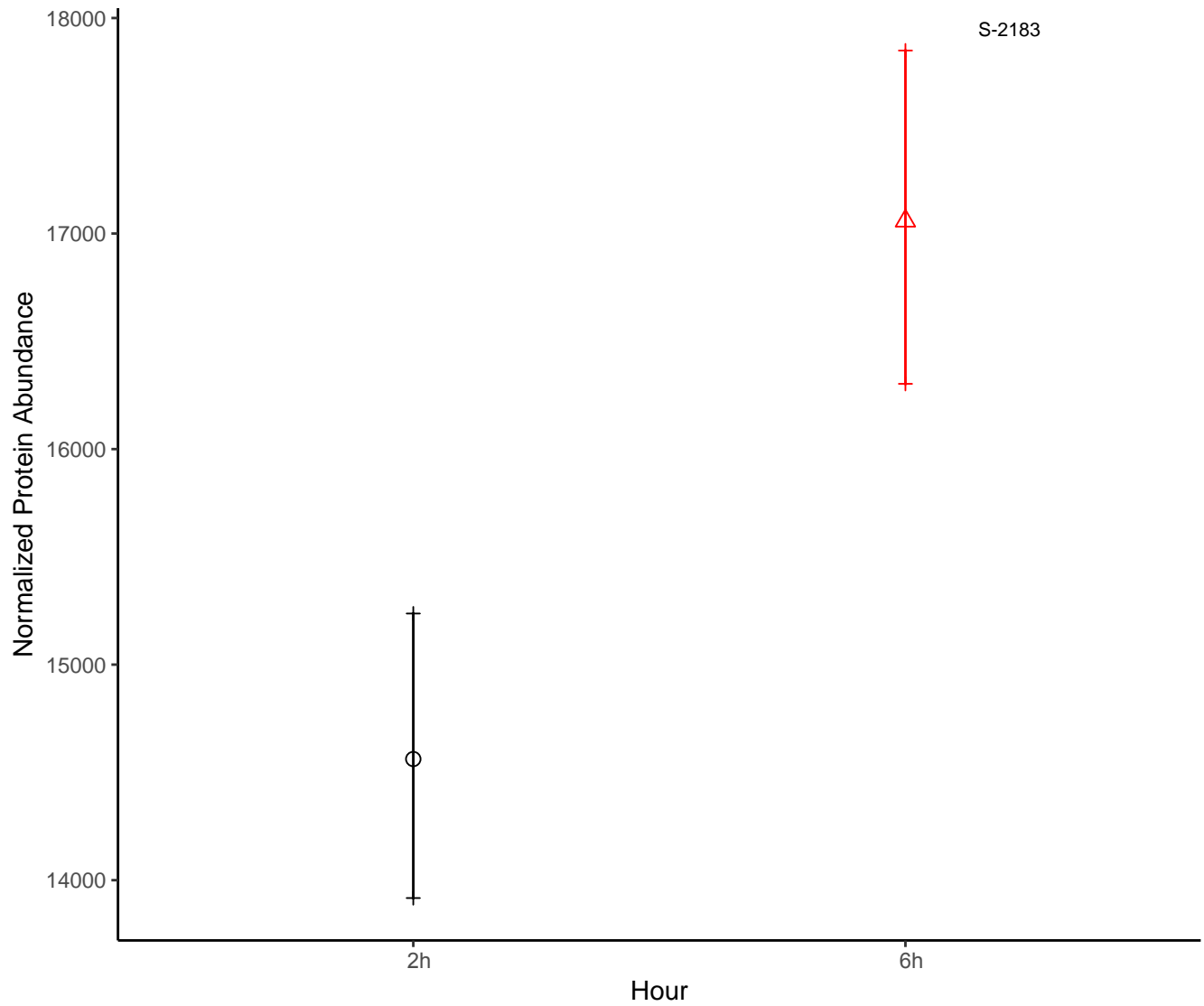
# ILVE\_STAAM



⊕ 2h

△ 6h

# IMDH\_STAAM

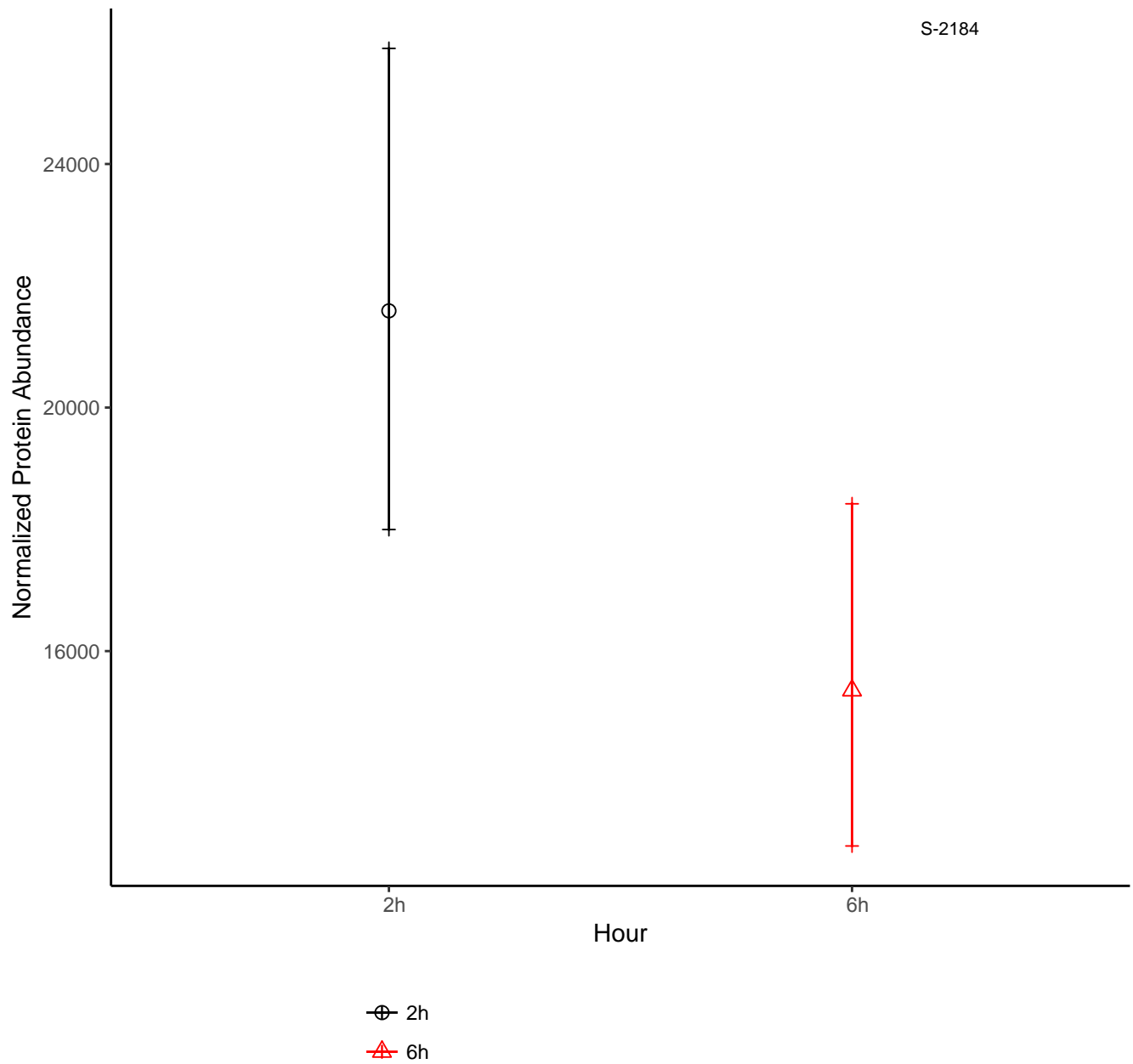


⊕ 2h

△ 6h

# ISAA\_STAAM

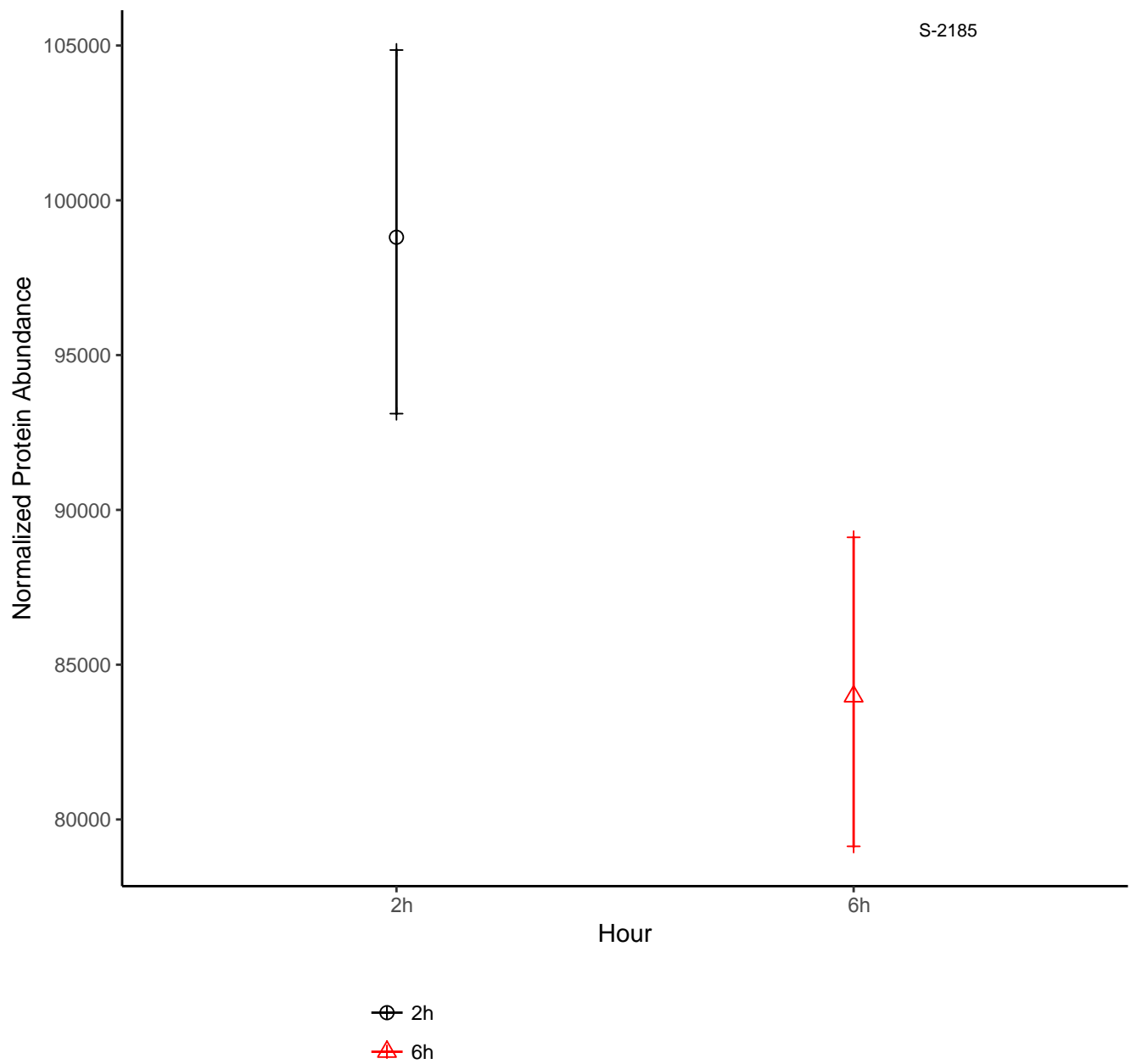
S-2184



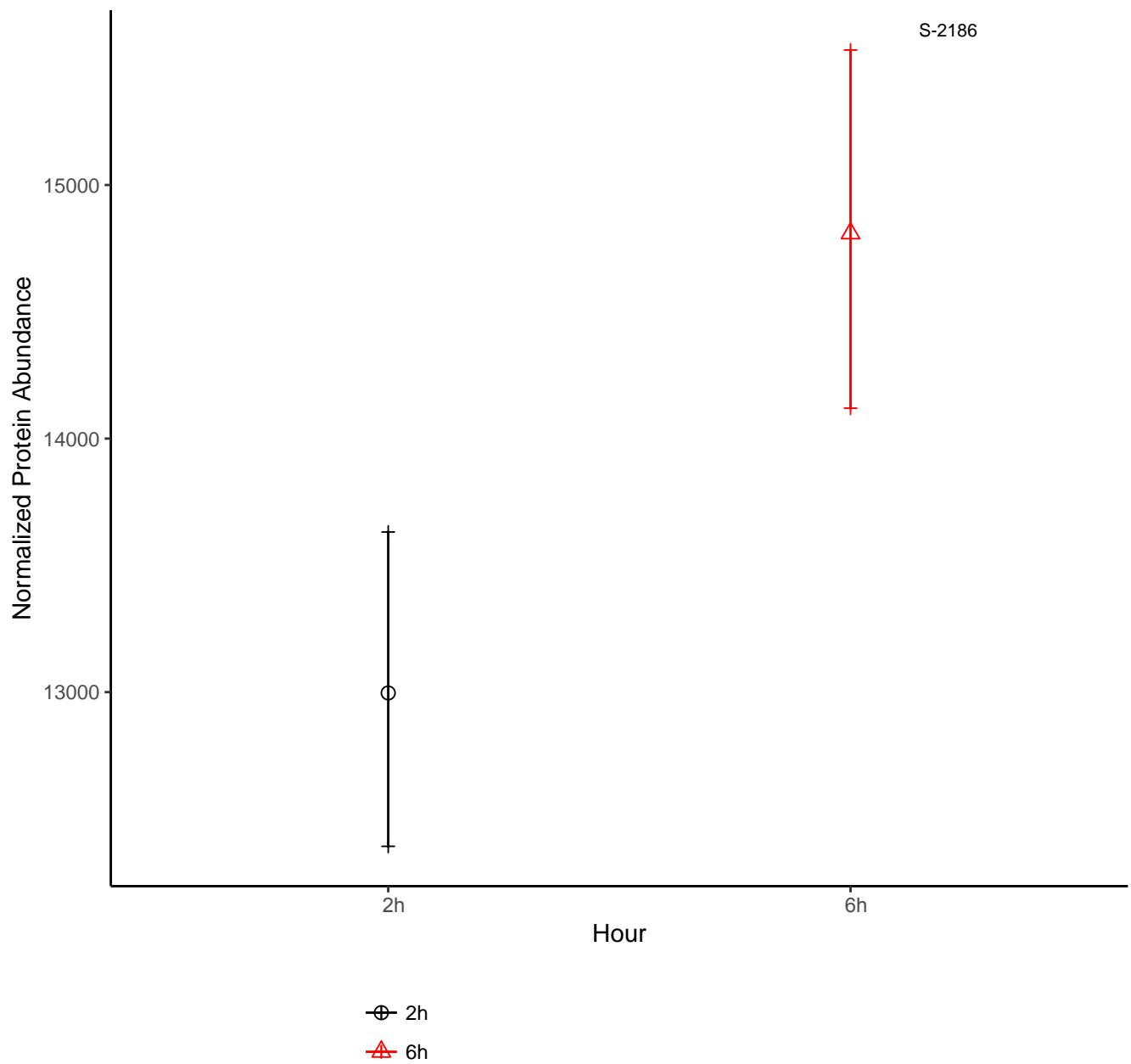


# ISPD1\_STAAM

S-2185

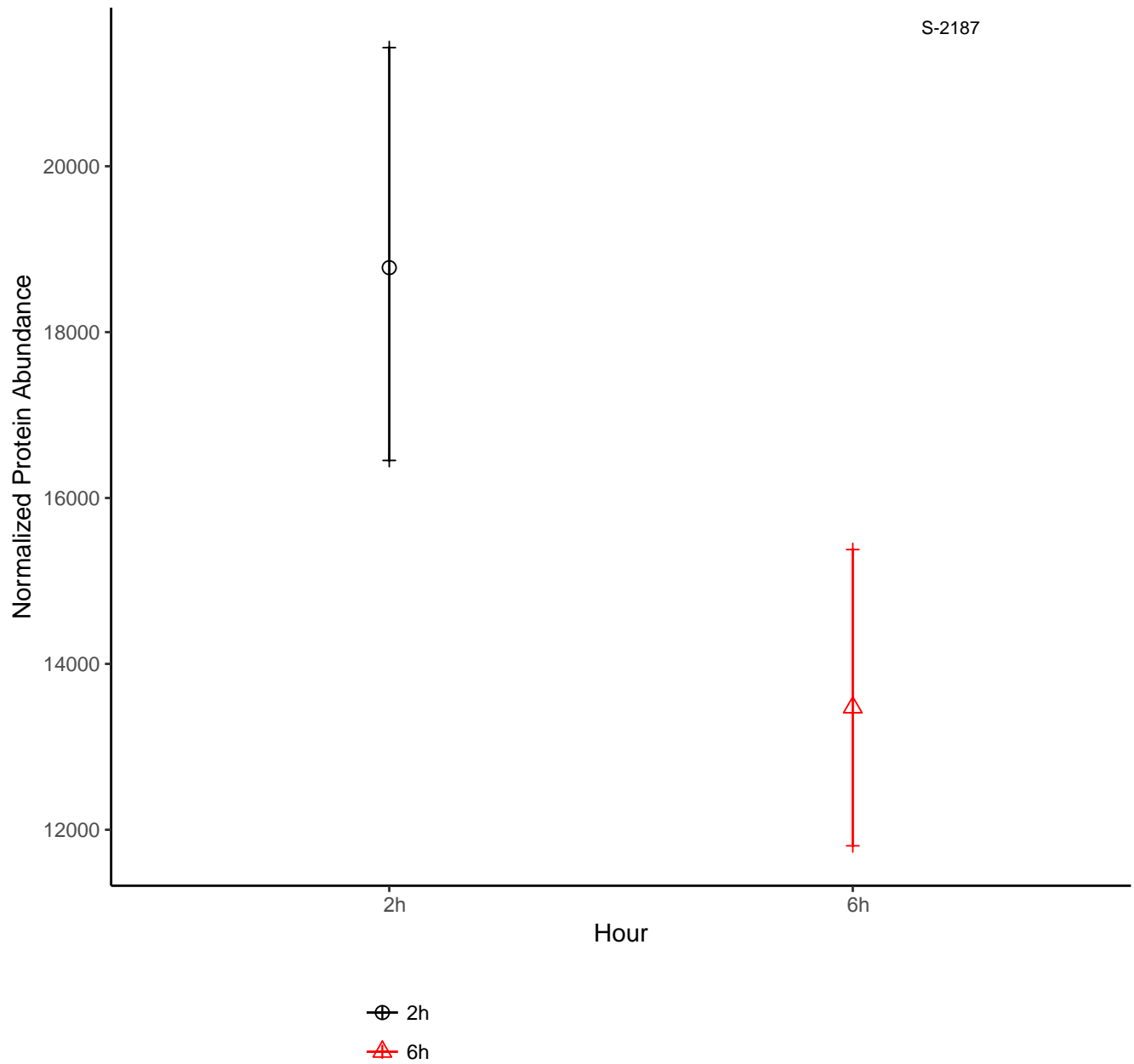


# ISPD2\_STAAM



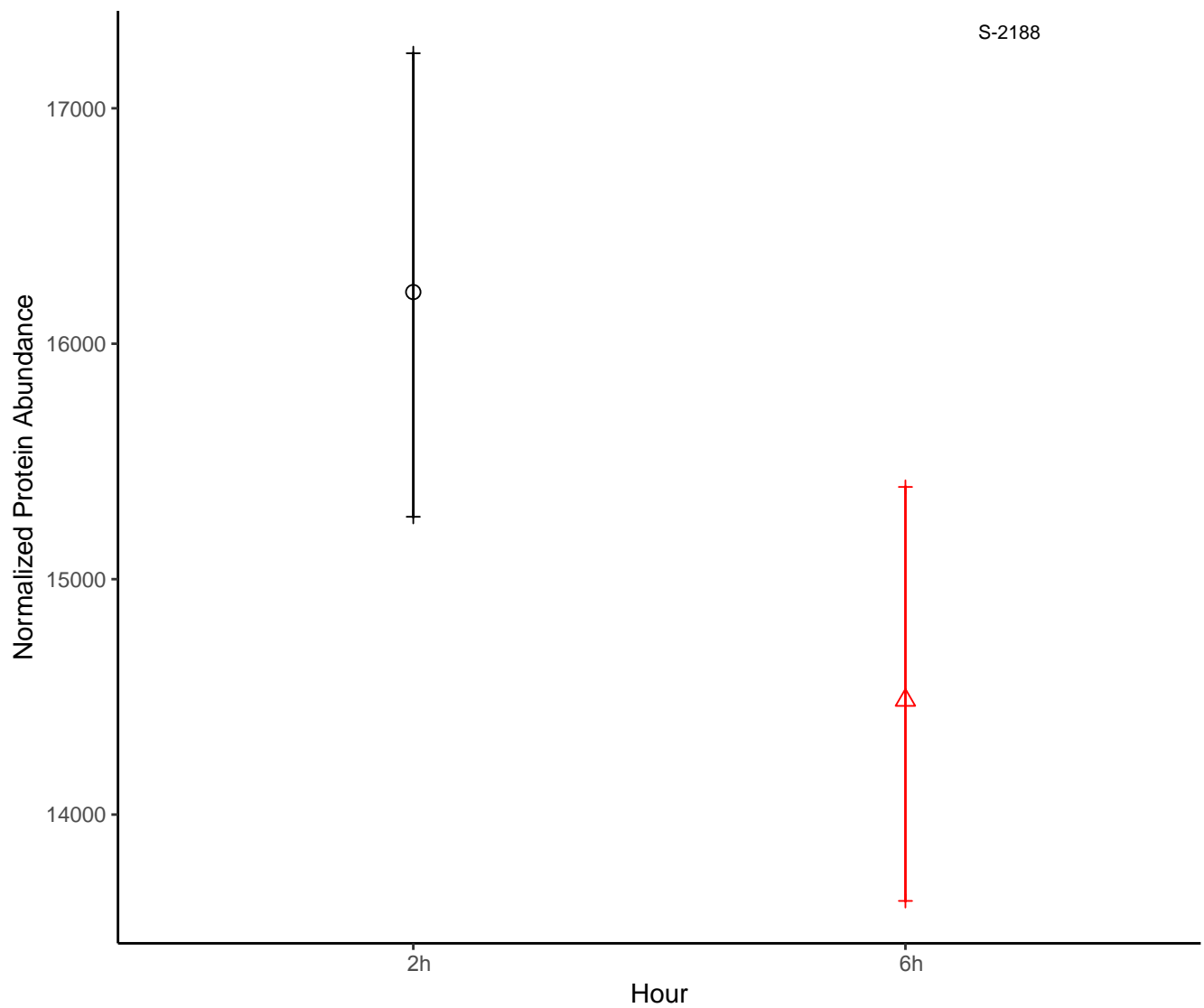
# ISPE\_STAAM

S-2187



# KAD\_STAAM

S-2188

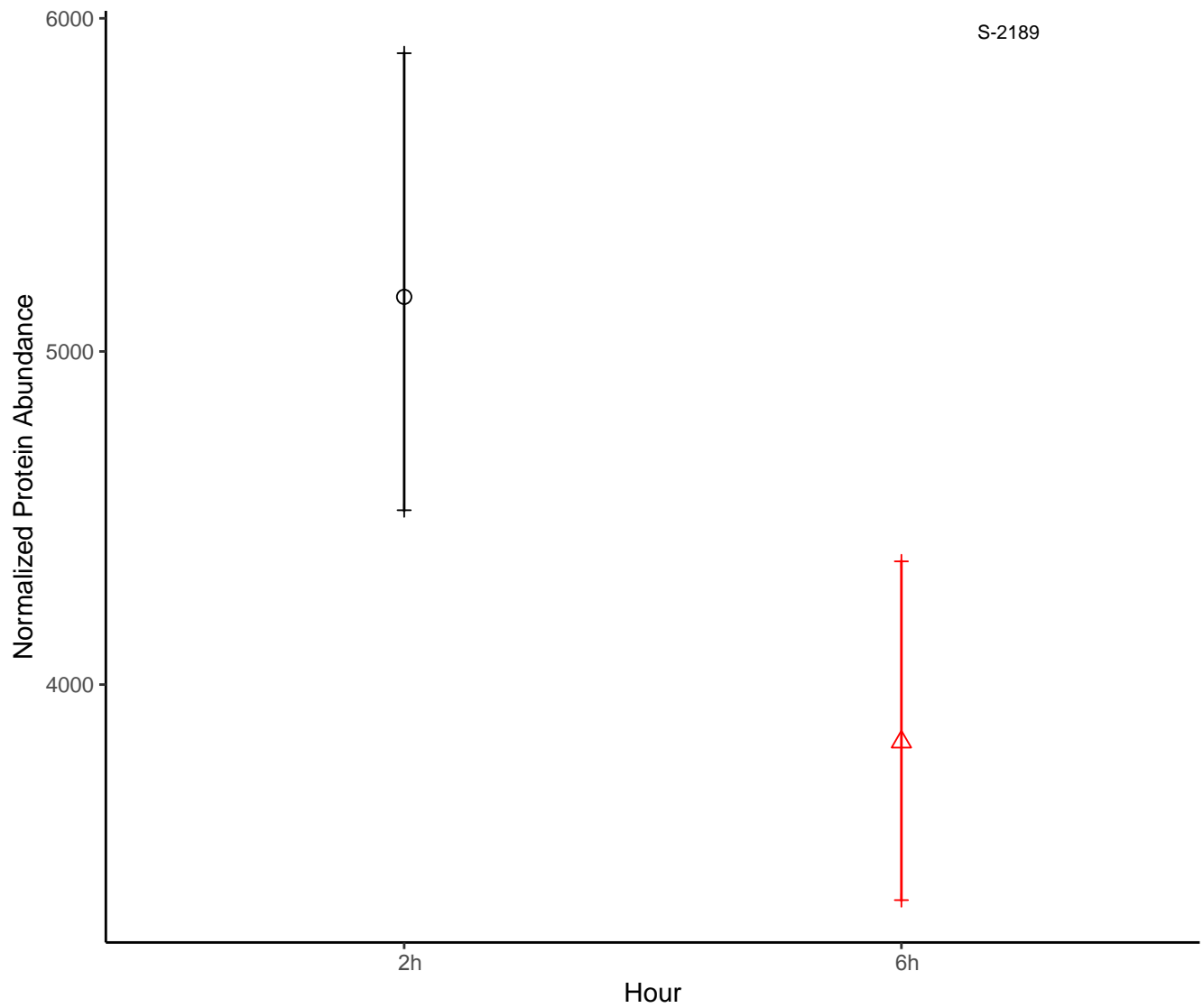


⊕ 2h

△ 6h

# KCY\_STAAM

S-2189

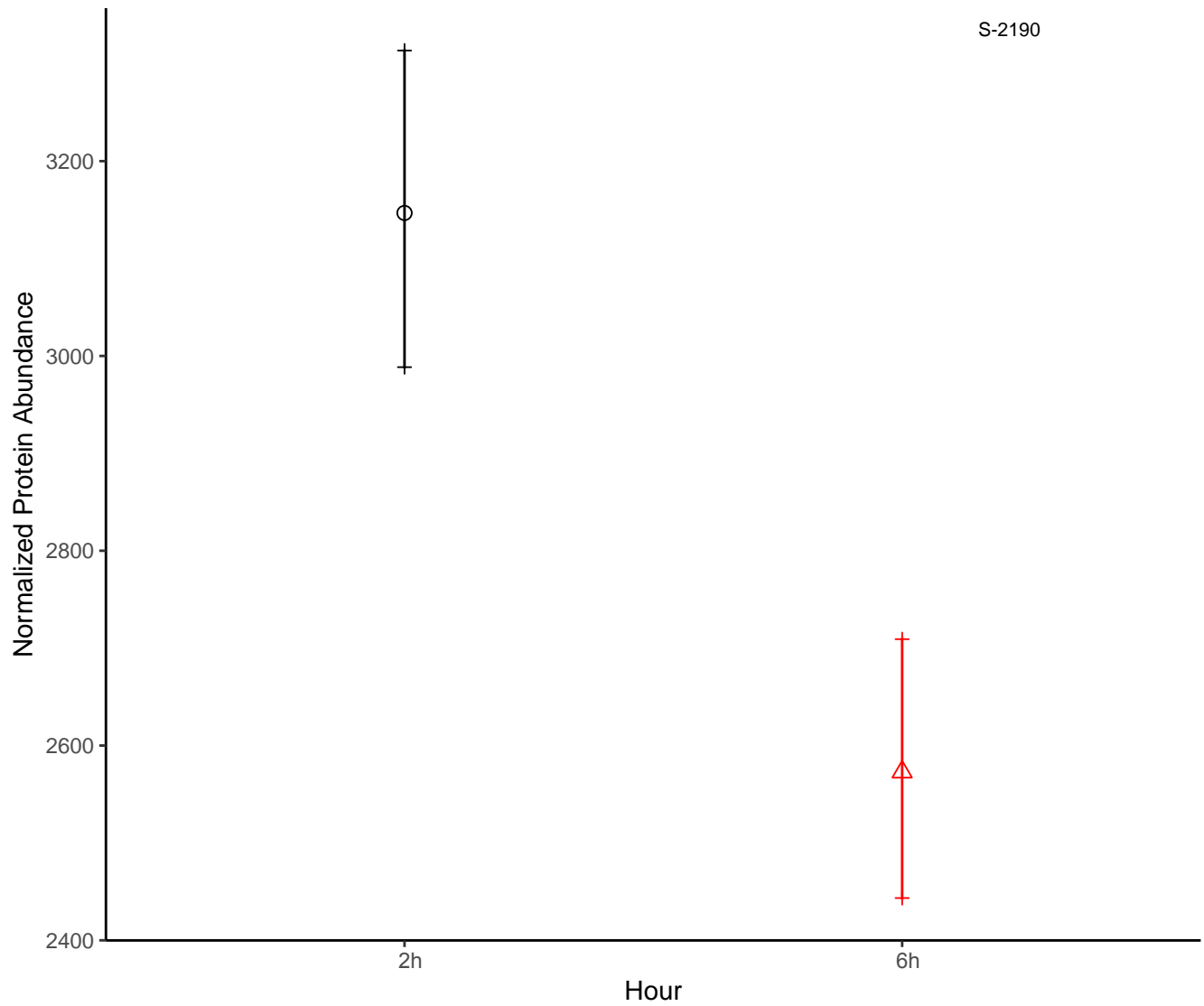


⊕ 2h

△ 6h

# KITH\_STAAM

S-2190

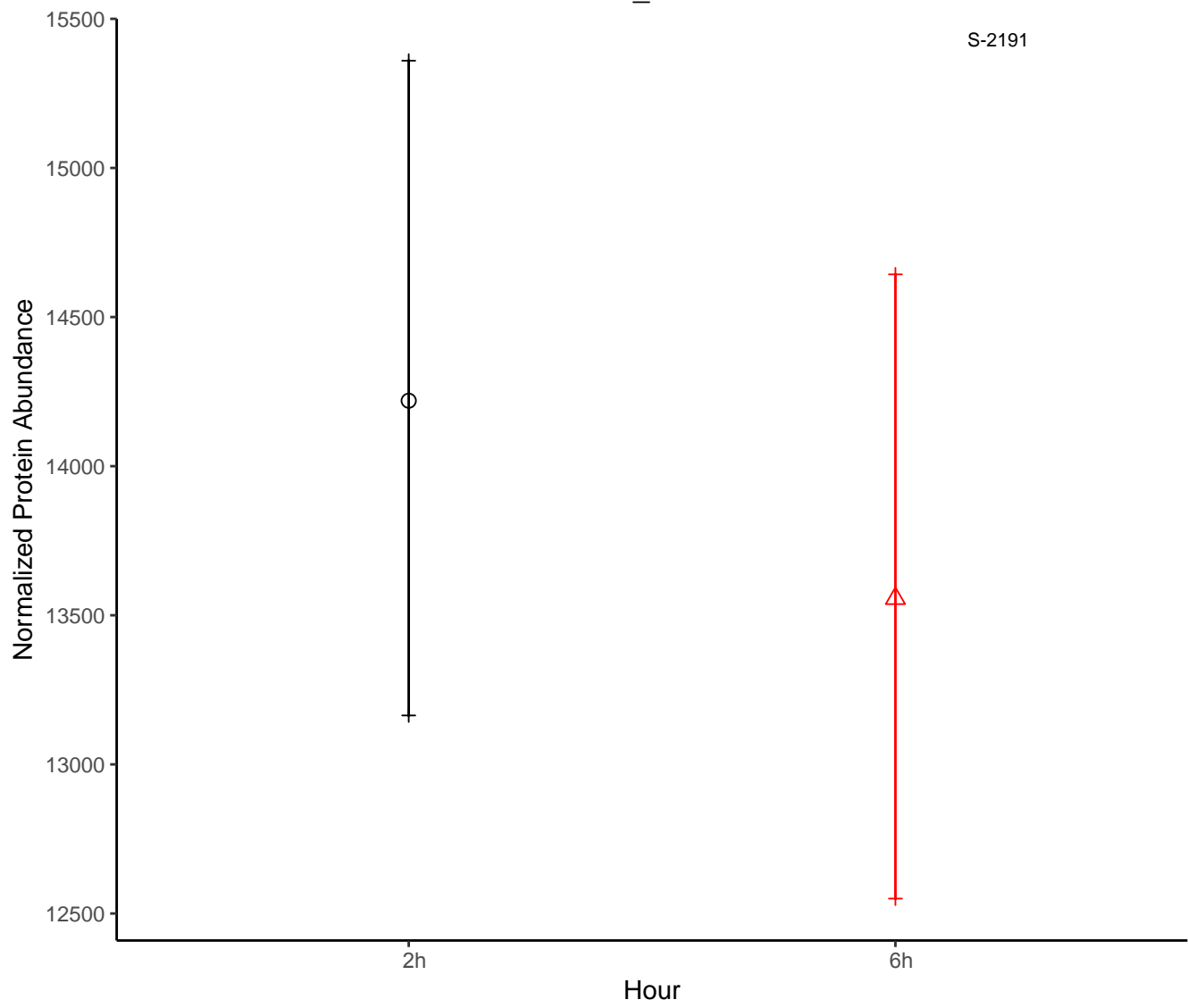


⊕ 2h

△ 6h

# KPRS\_STAAM

S-2191

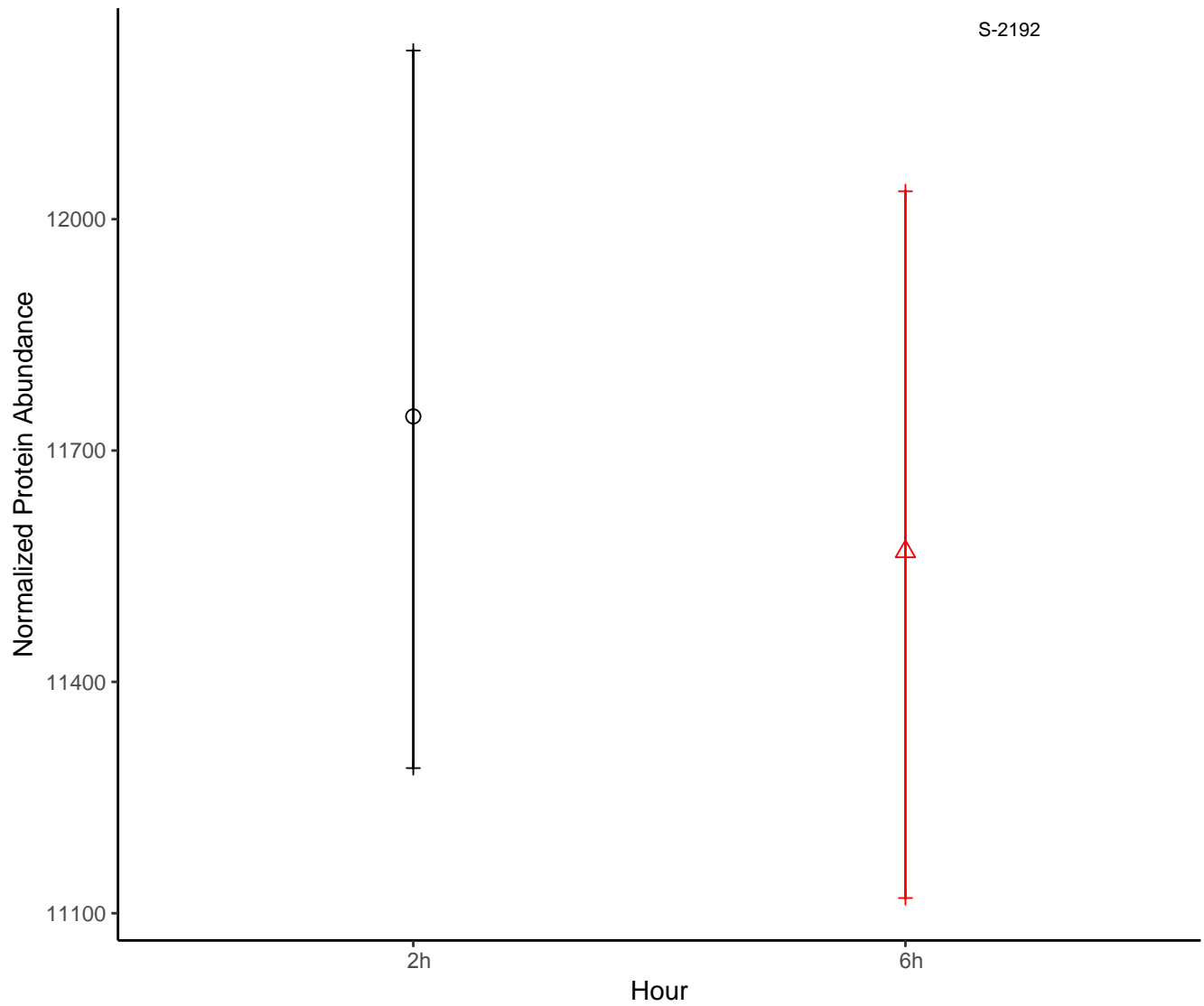


⊕ 2h

△ 6h

# KPYK\_STAAM

S-2192

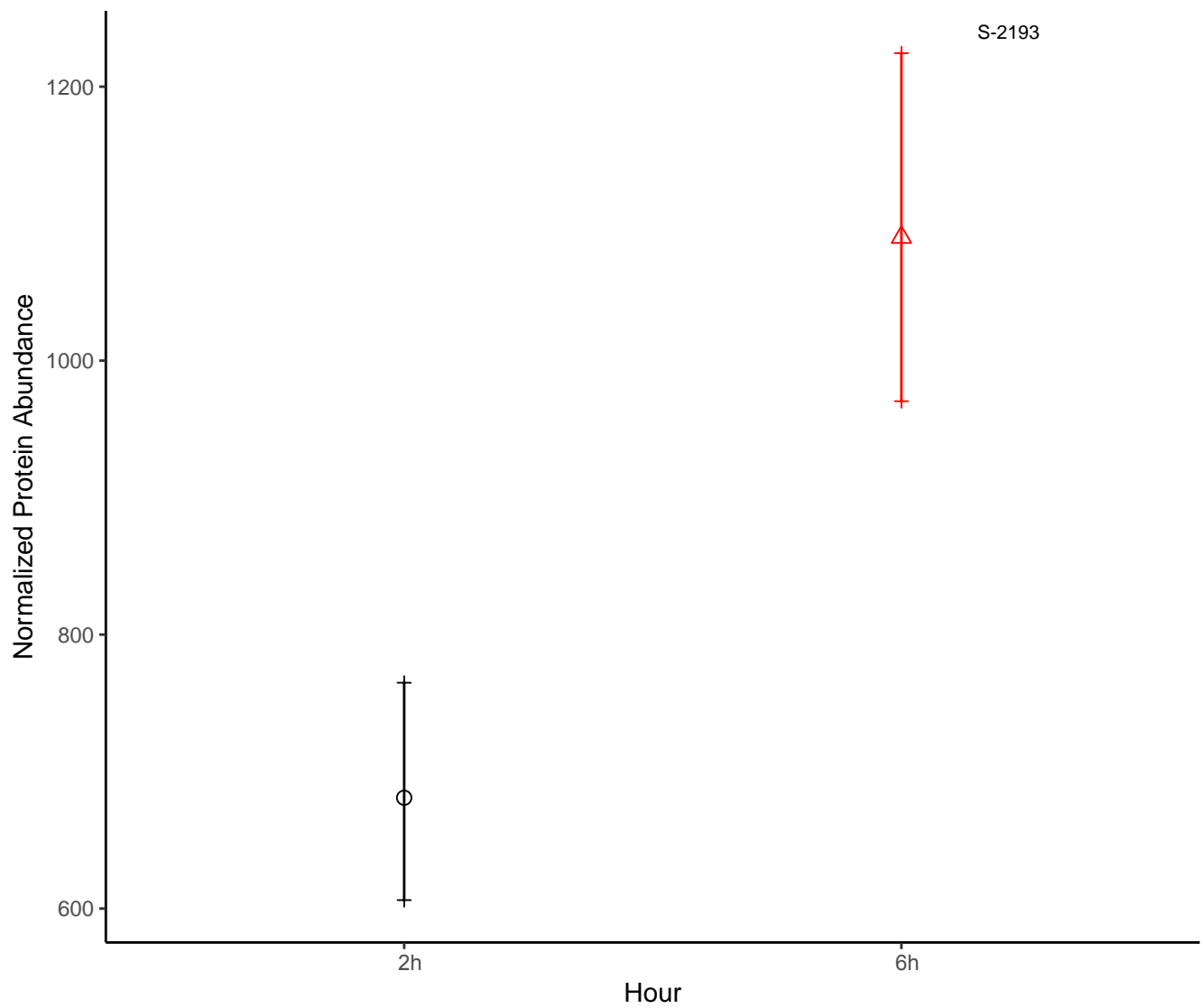


⊕ 2h

△ 6h



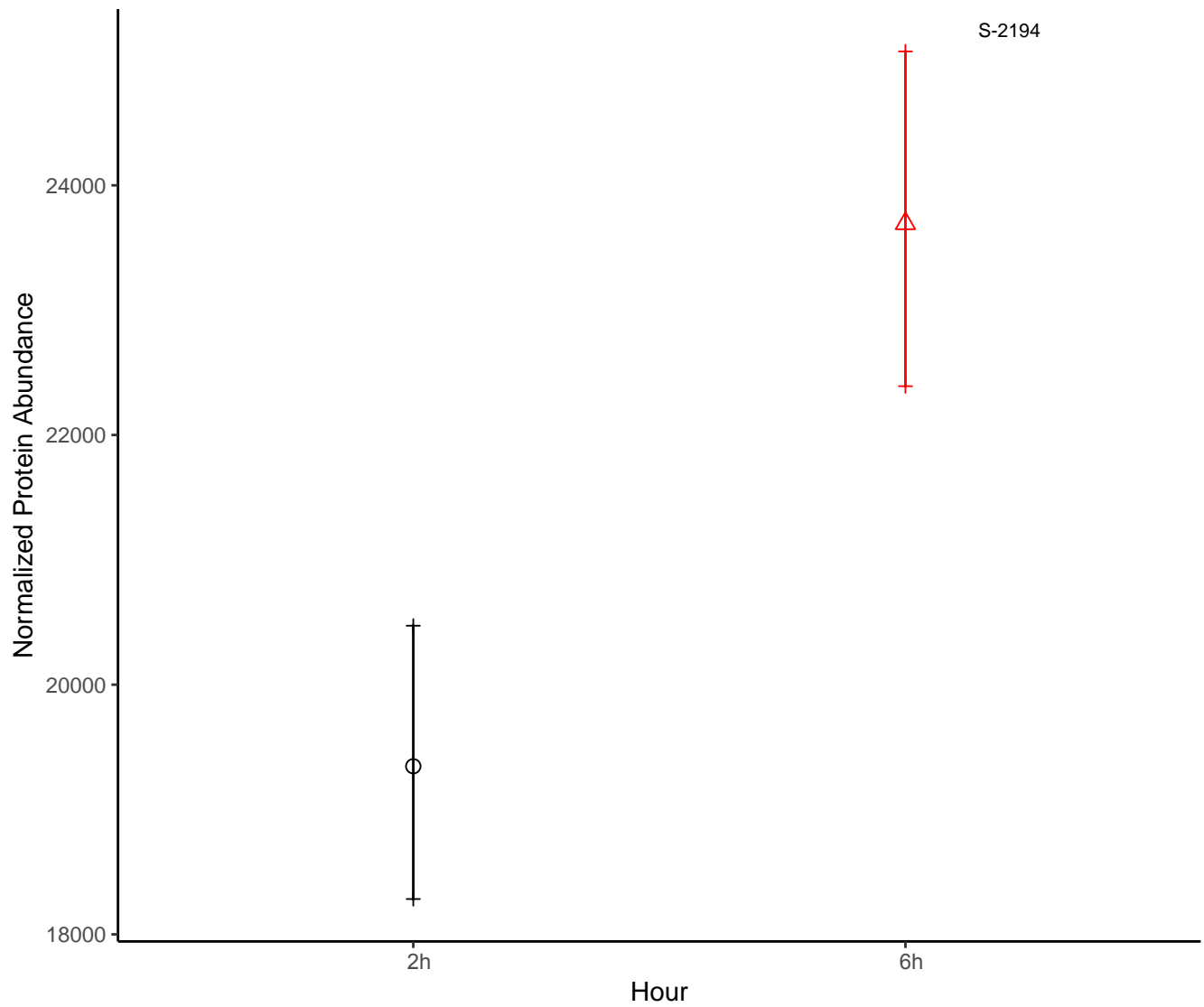
# KTHY\_STAAM



⊕ 2h

△ 6h

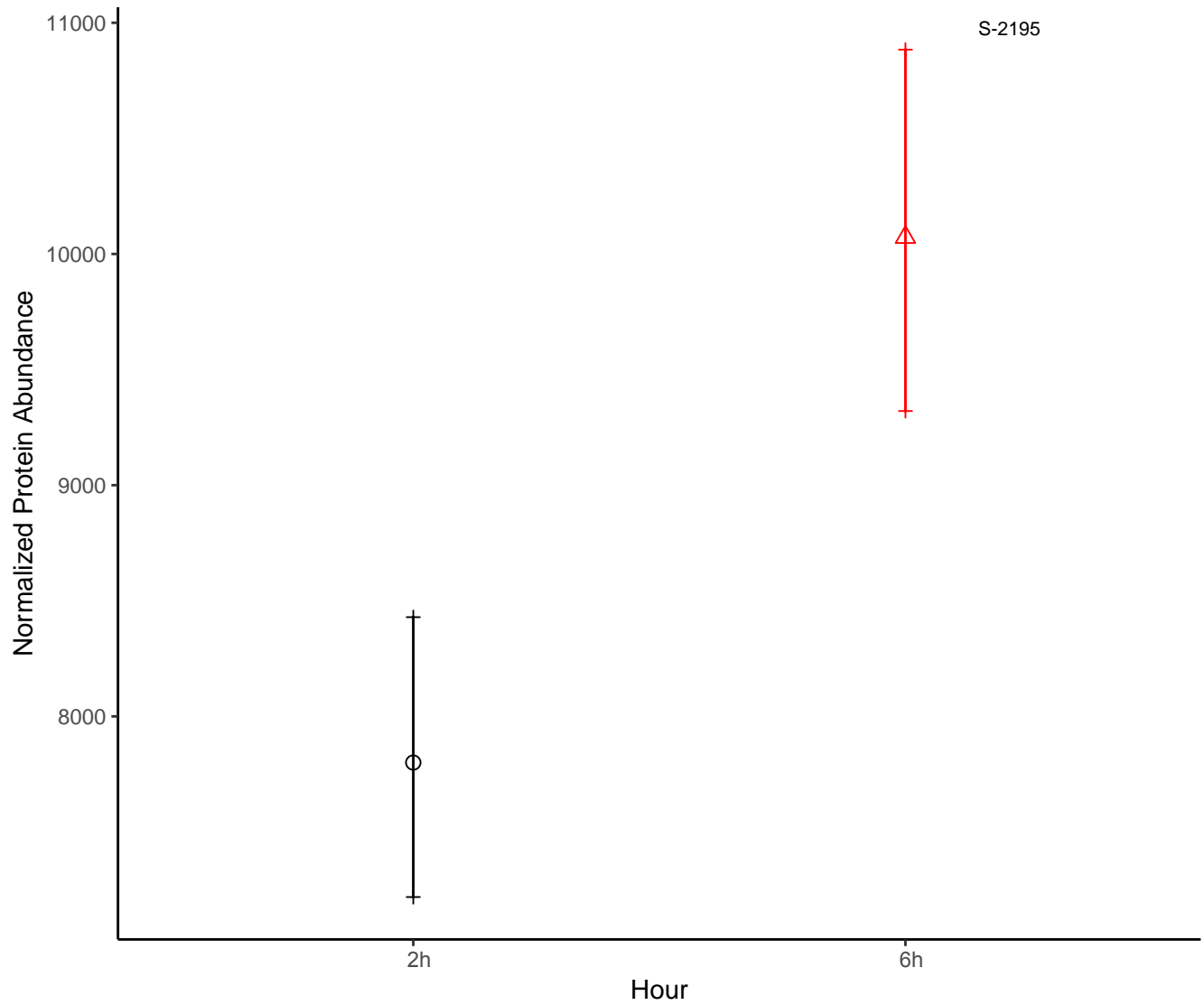
# LACA\_STAAM



⊕ 2h

△ 6h

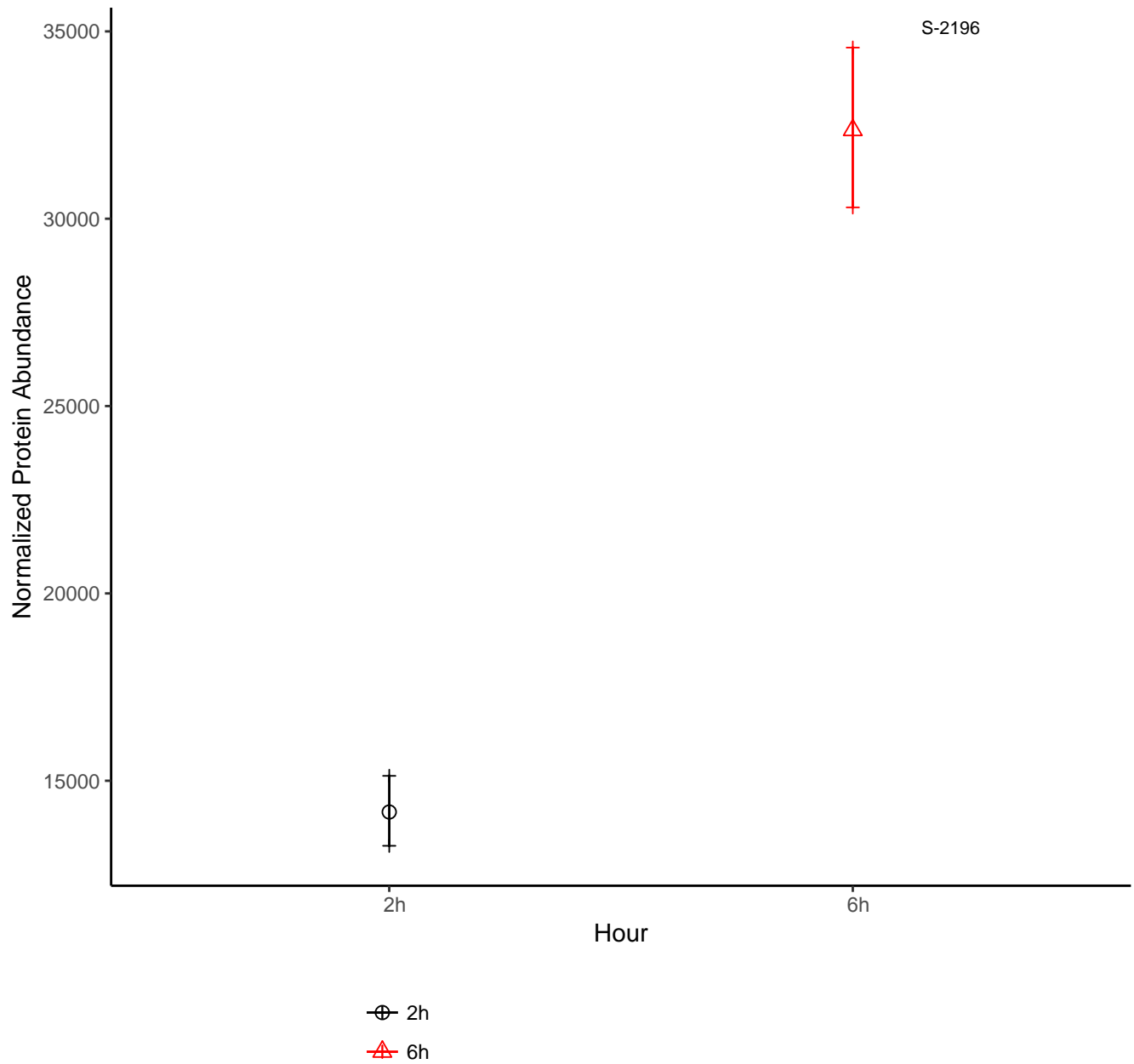
# LDH1\_STAAM



⊕ 2h

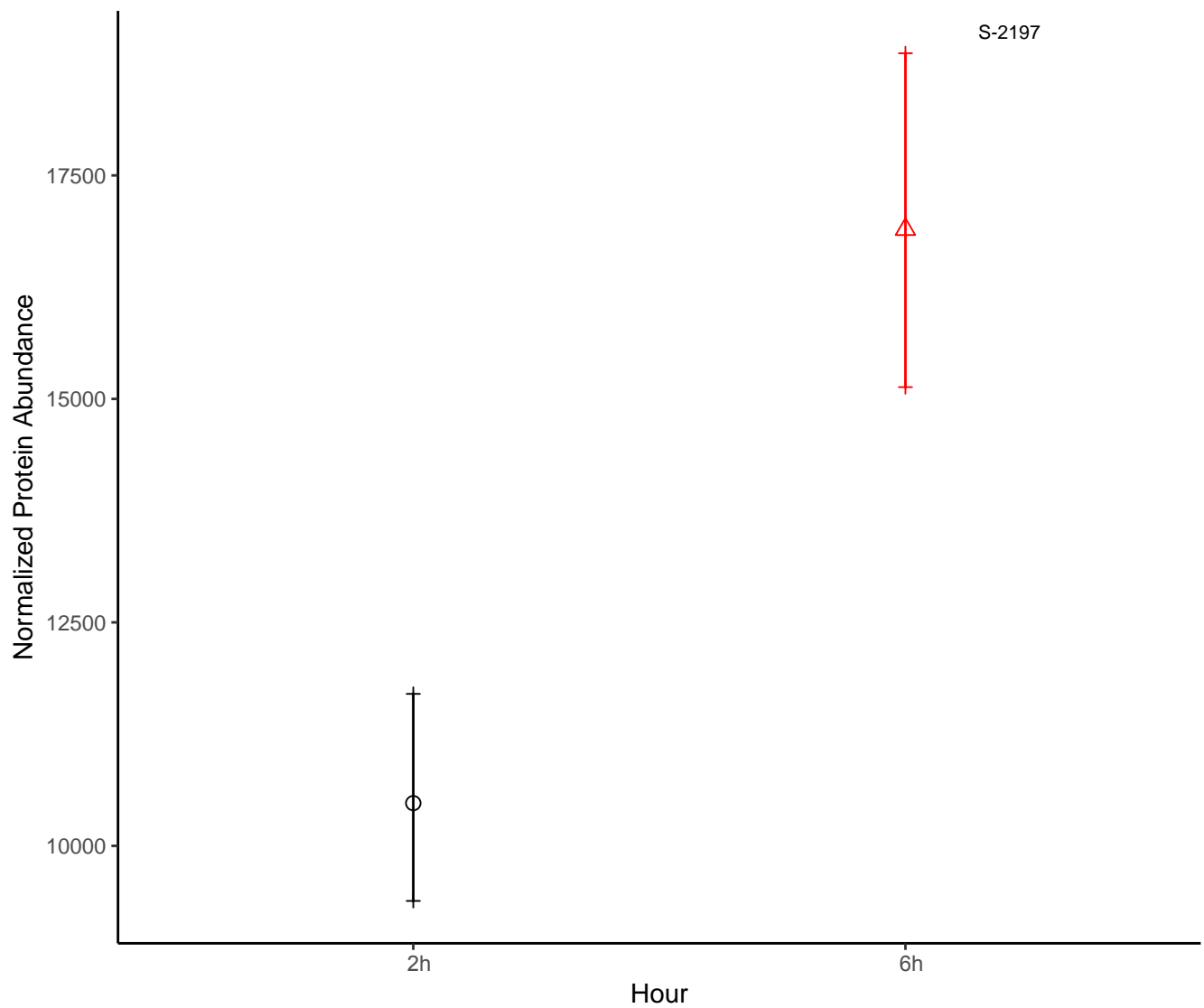
△ 6h

# LDH2\_STAAM



S-2196

# LDHD\_STAAM

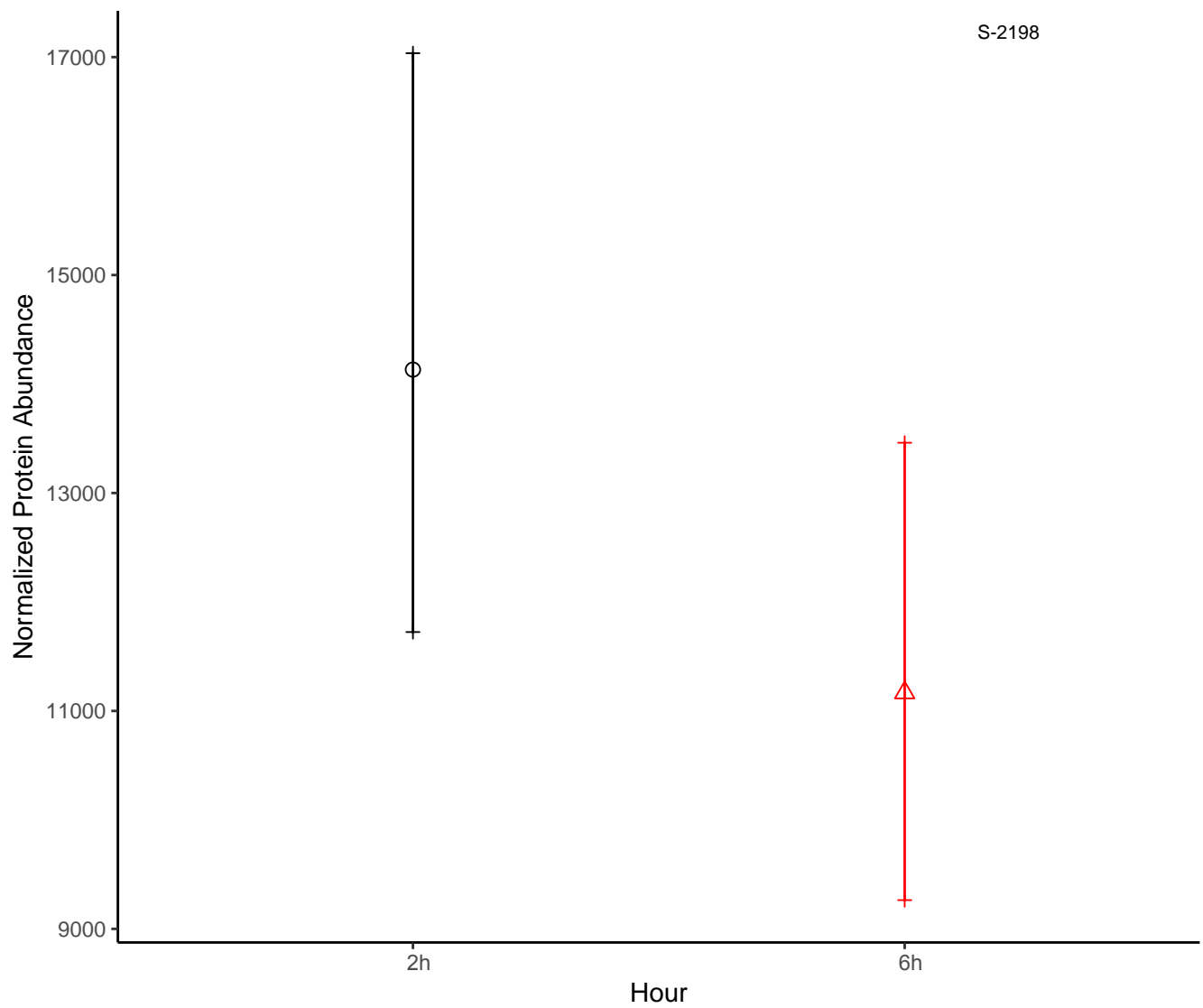


⊕ 2h

△ 6h

# LEP\_STAAM

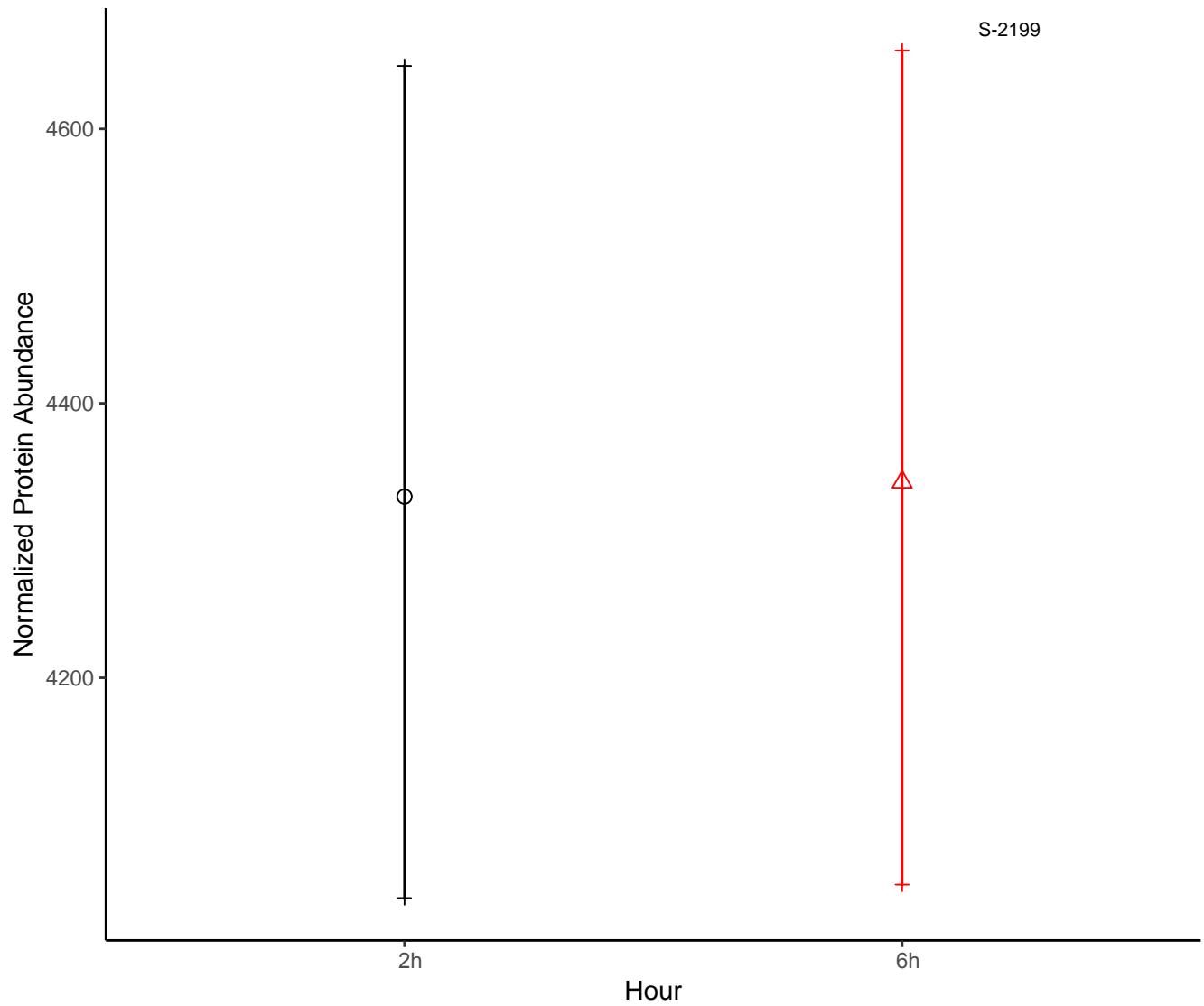
S-2198



⊕ 2h

△ 6h

# LEPA\_STAAM

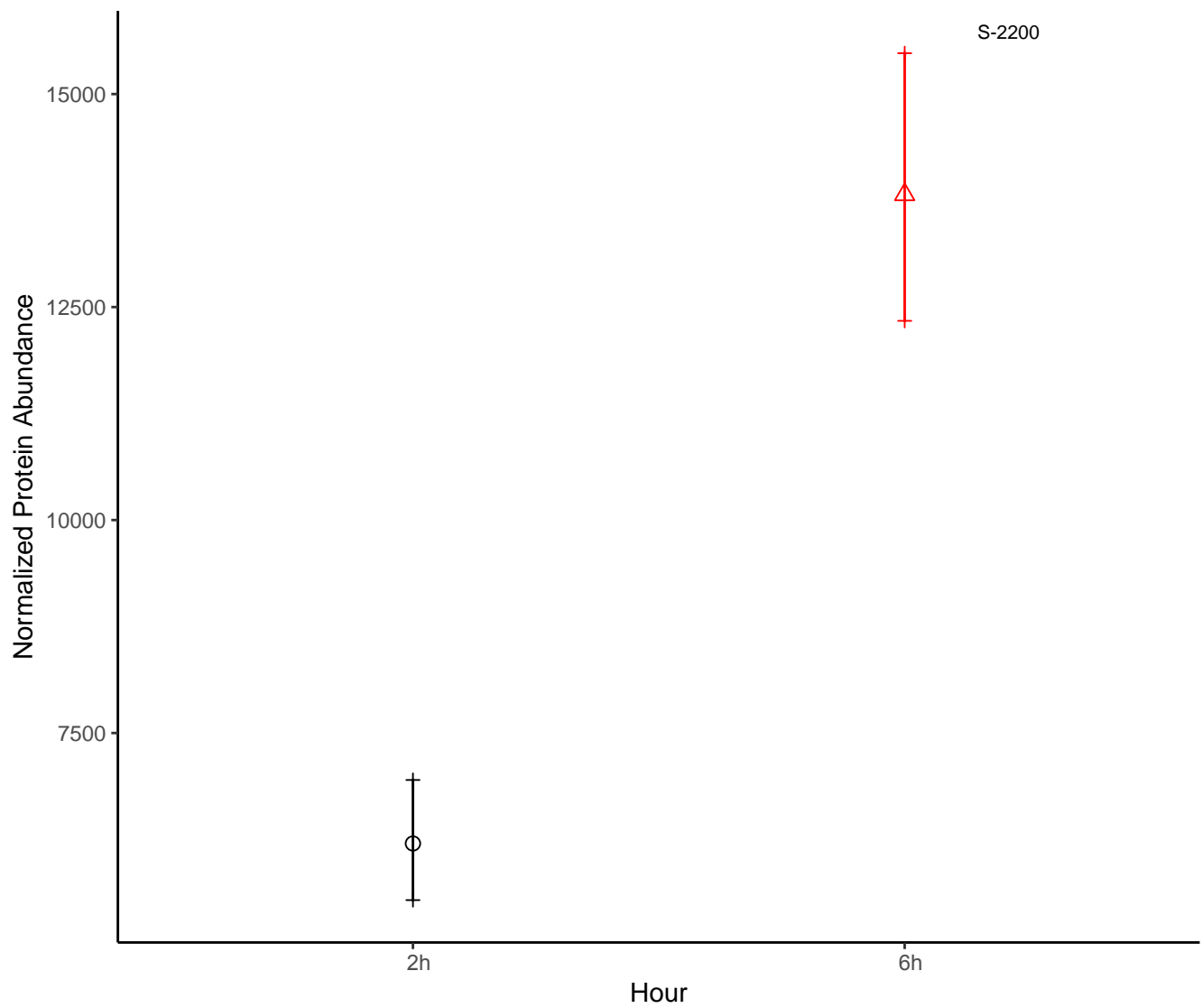


S-2199

⊕ 2h

△ 6h

# LEU1\_STAAM



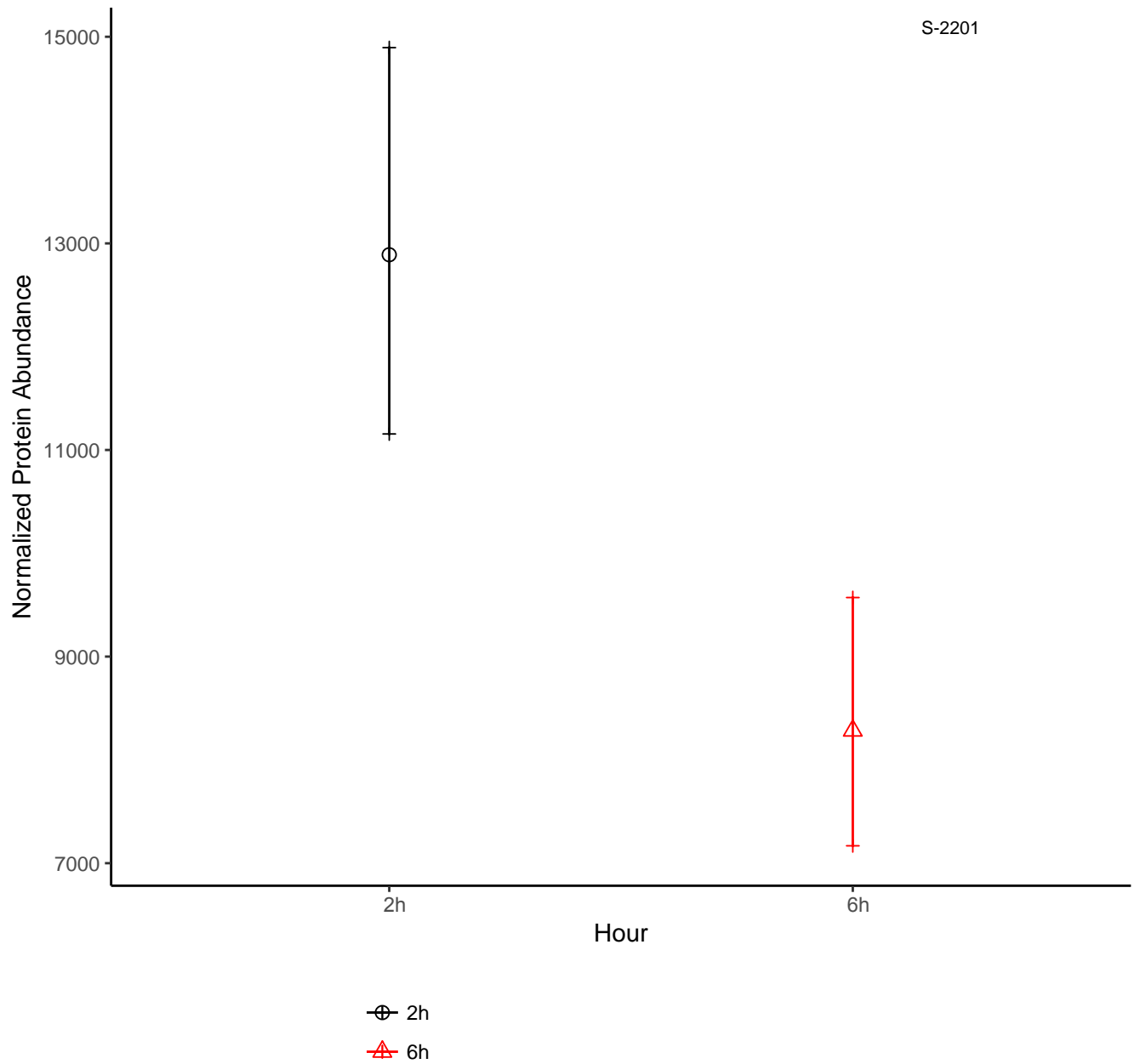
⊕ 2h

△ 6h

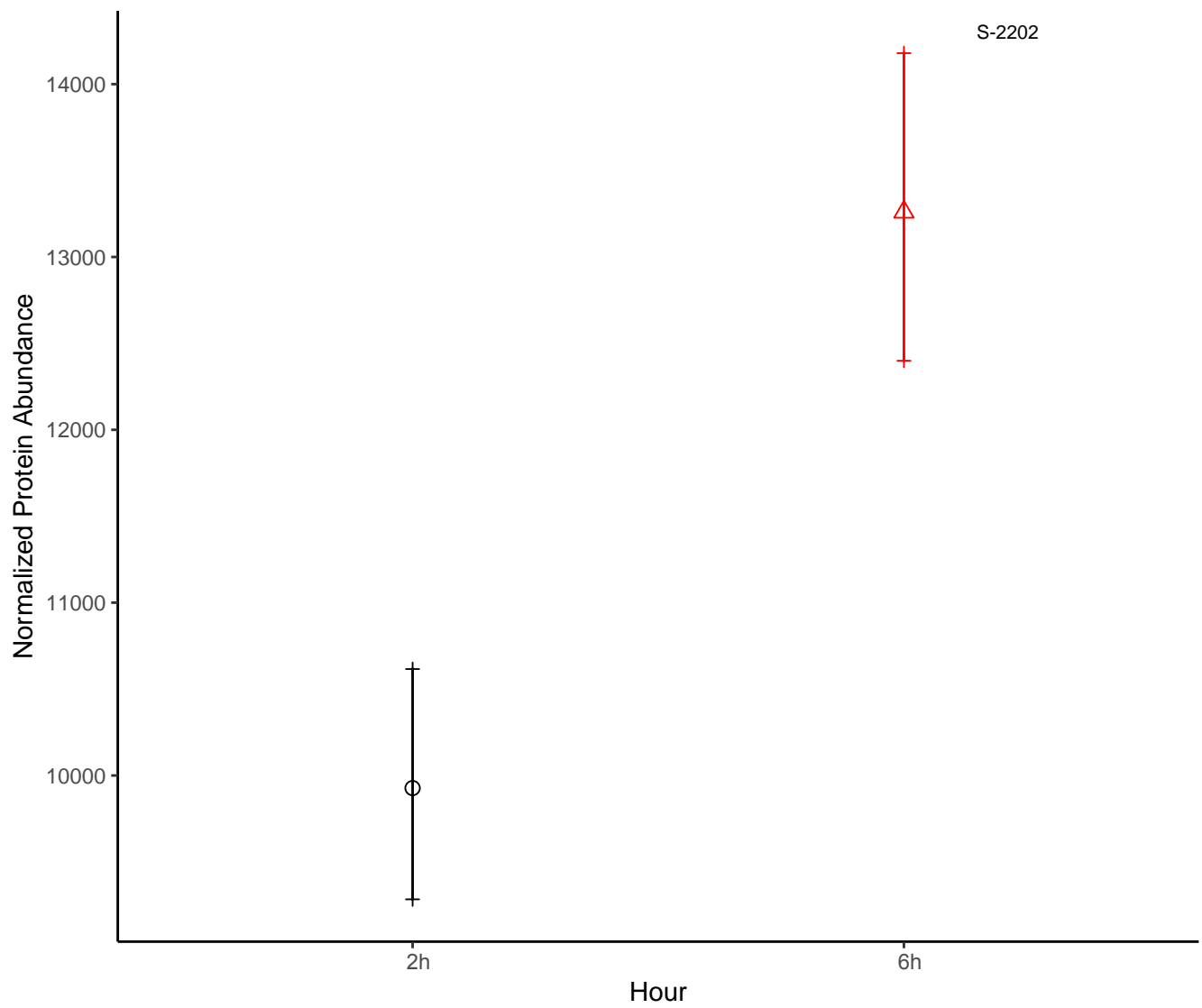


# LIPA\_STAAM

S-2201



# LUXS\_STAAM

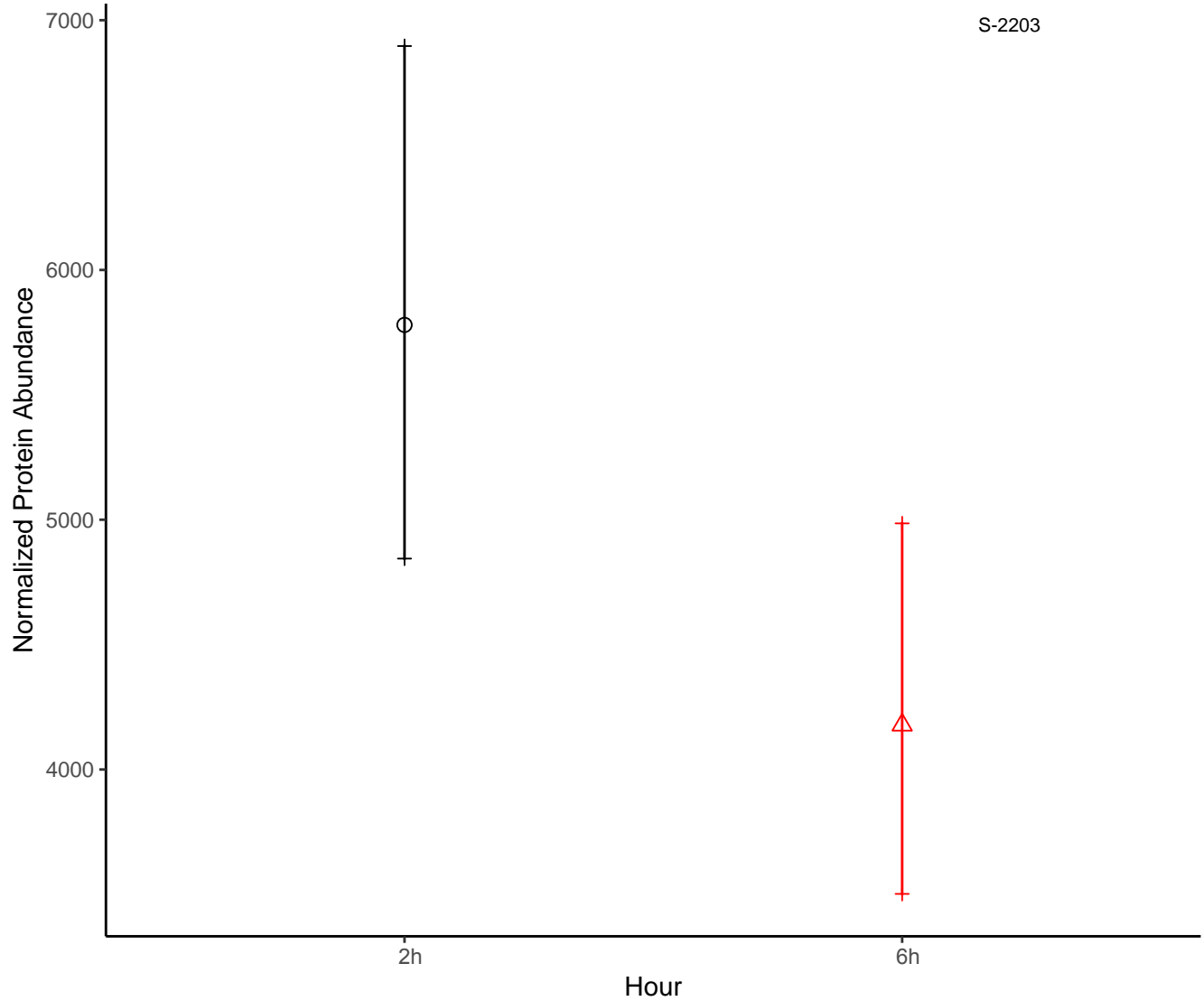


⊕ 2h

△ 6h

# LYTH\_STAAM

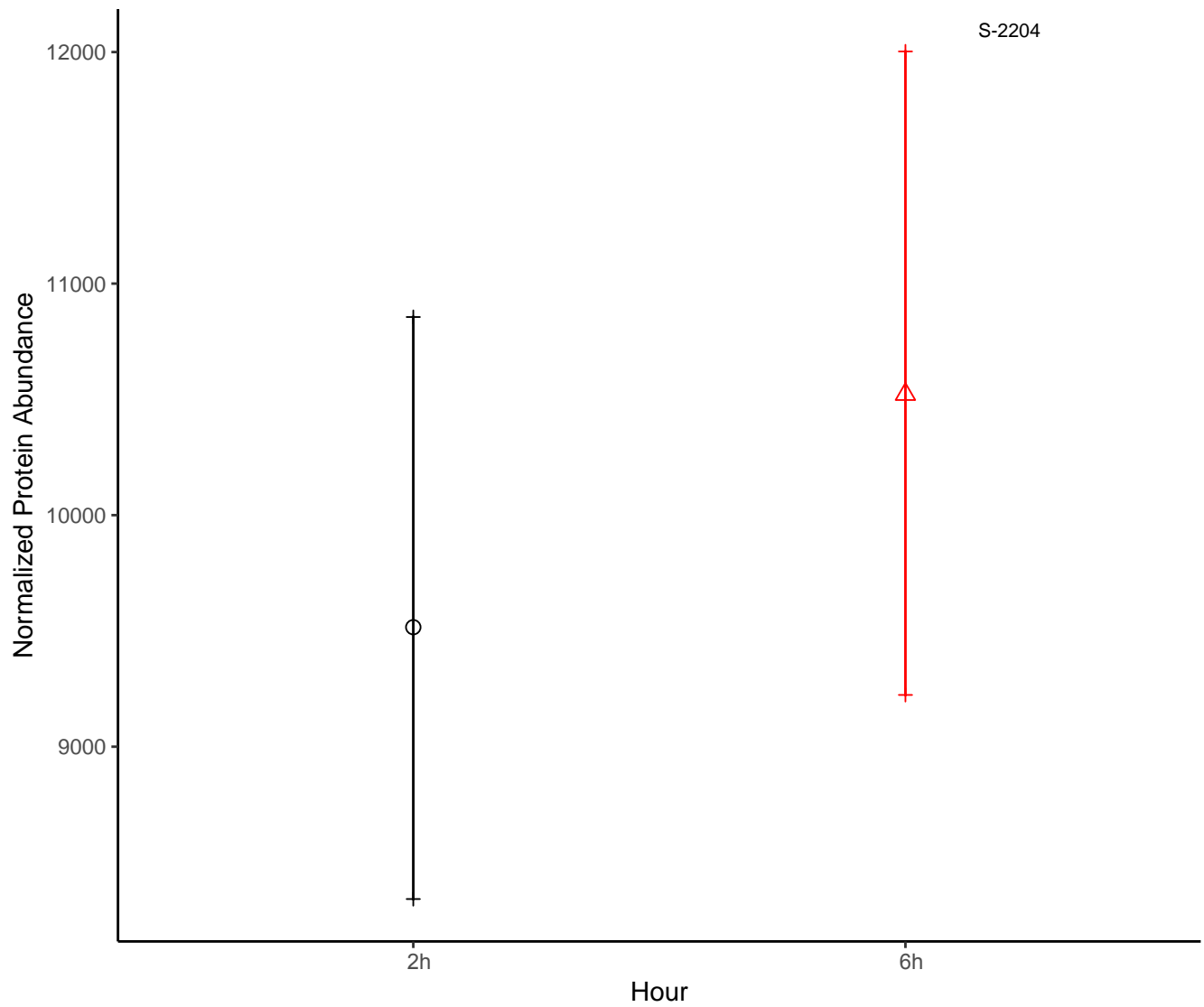
S-2203



⊕ 2h

△ 6h

# LYTN\_STAAM

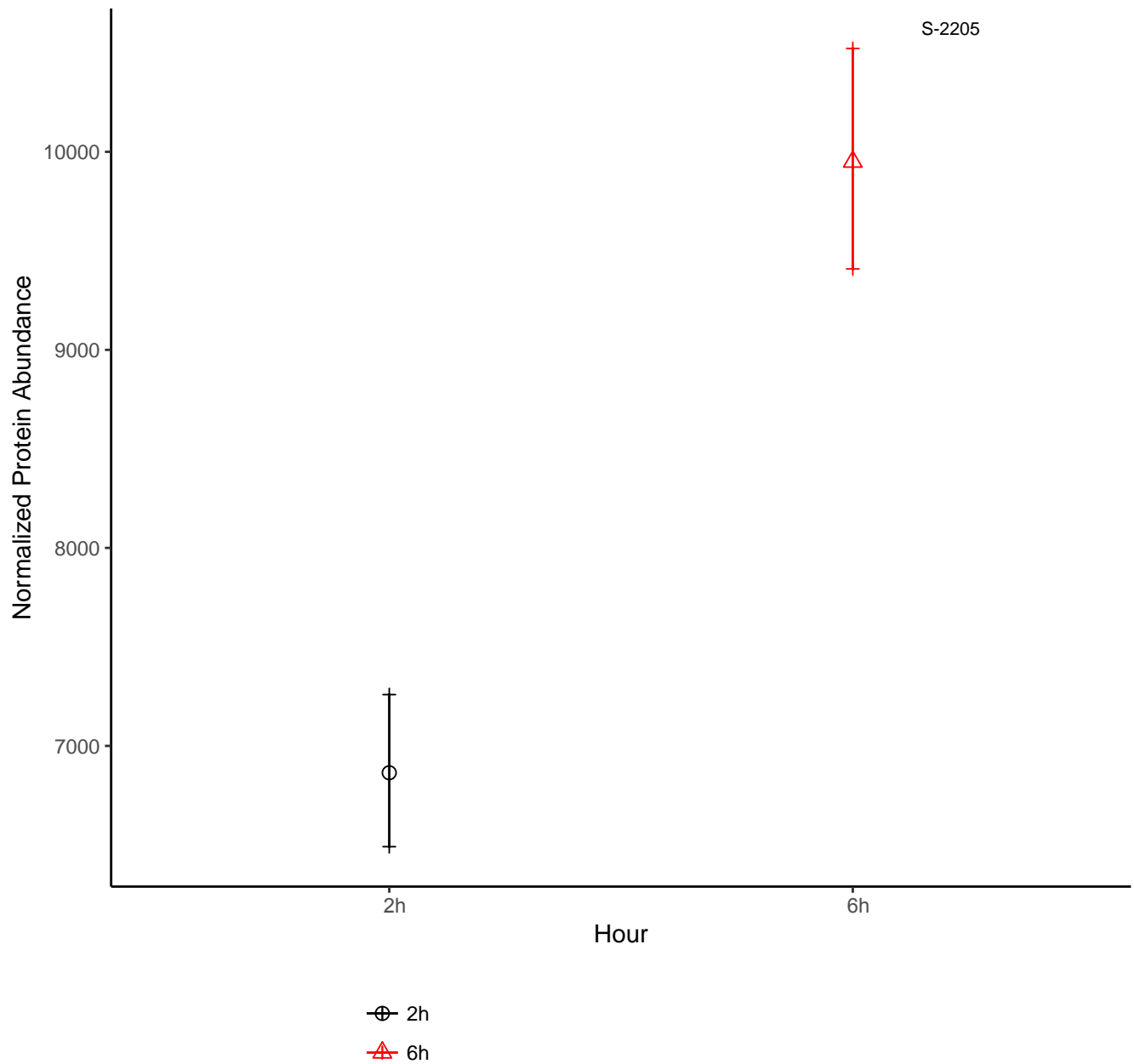


S-2204

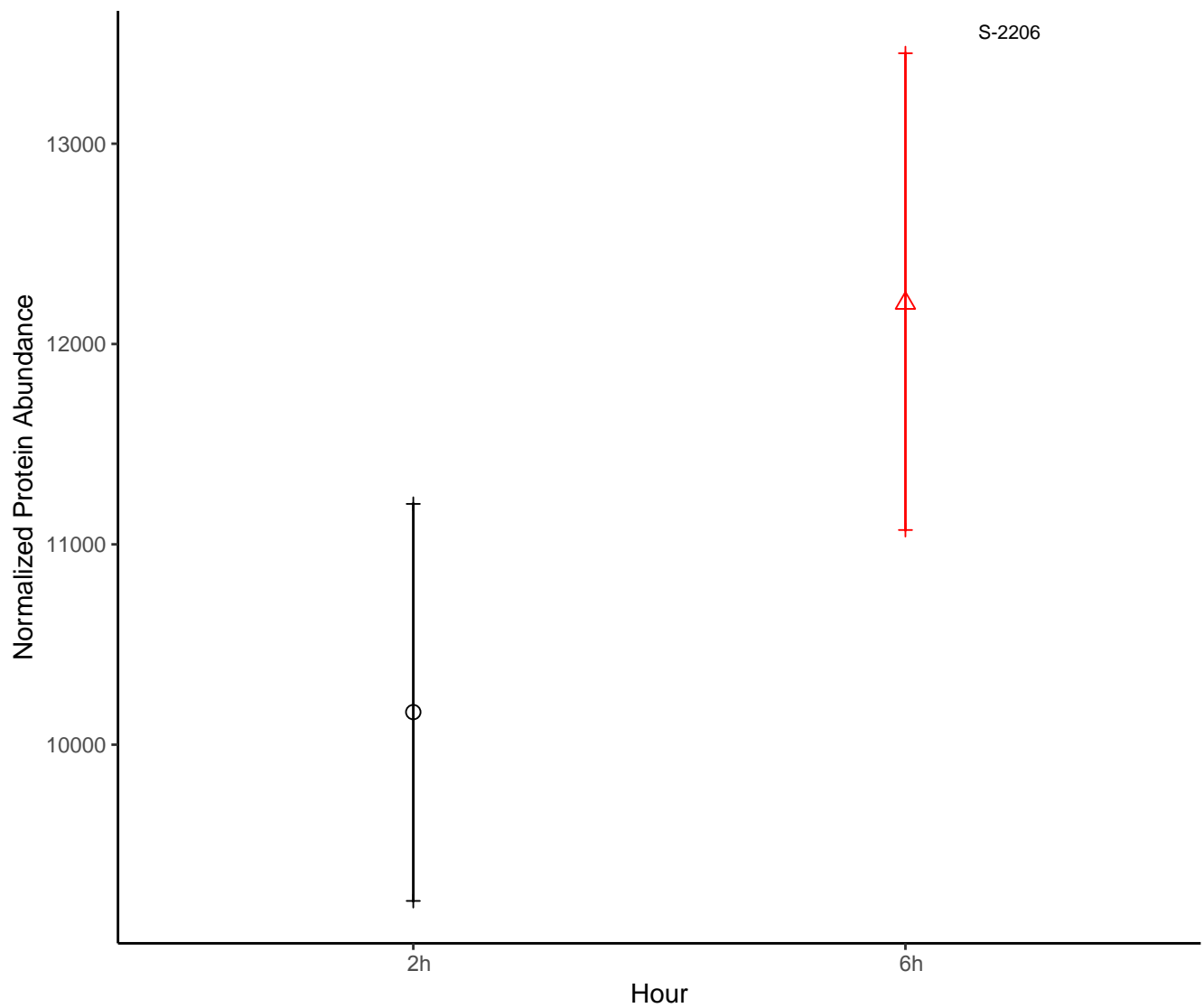
⊕ 2h

△ 6h

# MAP\_STAAM



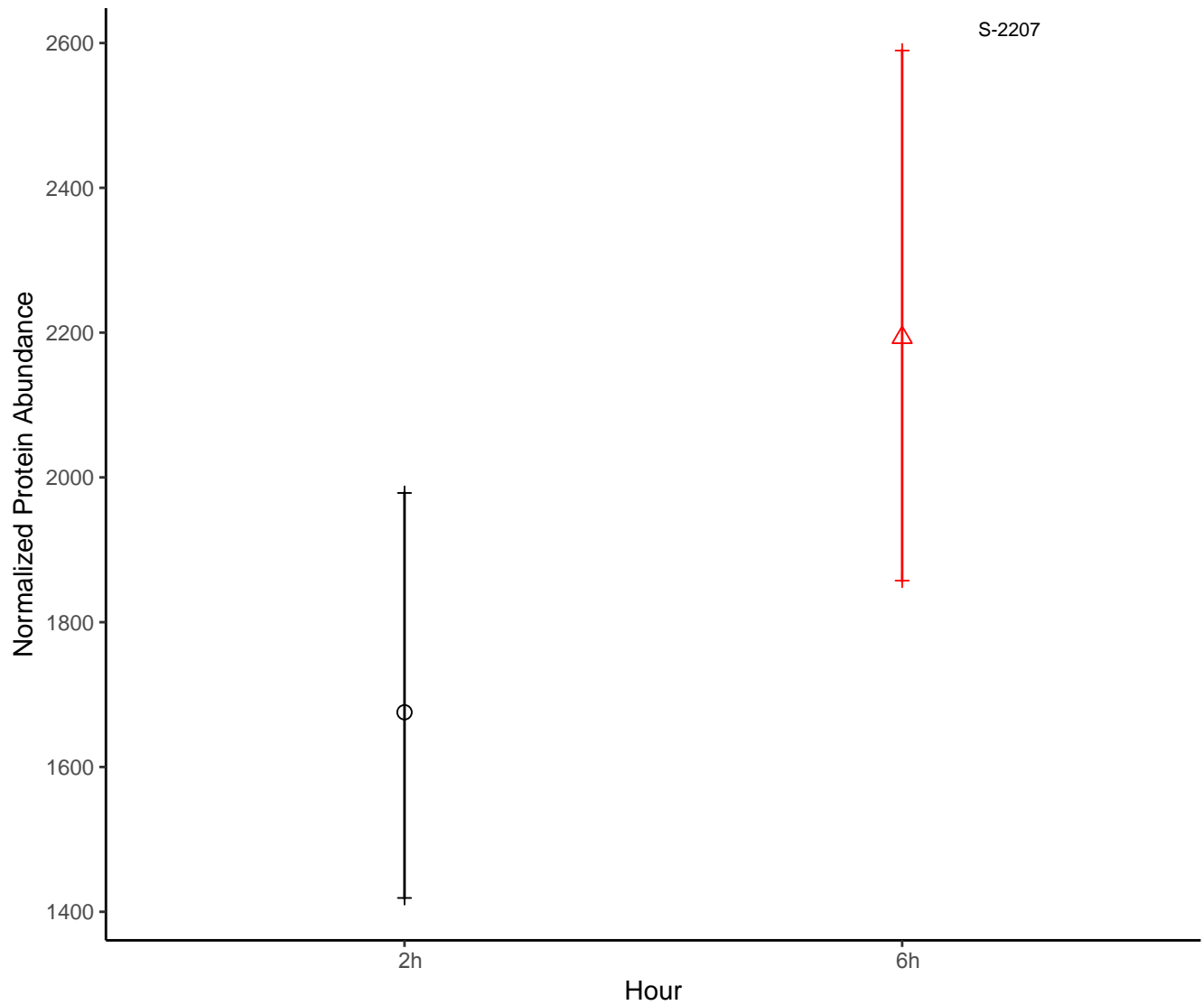
# MAP1\_STAAM



⊕ 2h

△ 6h

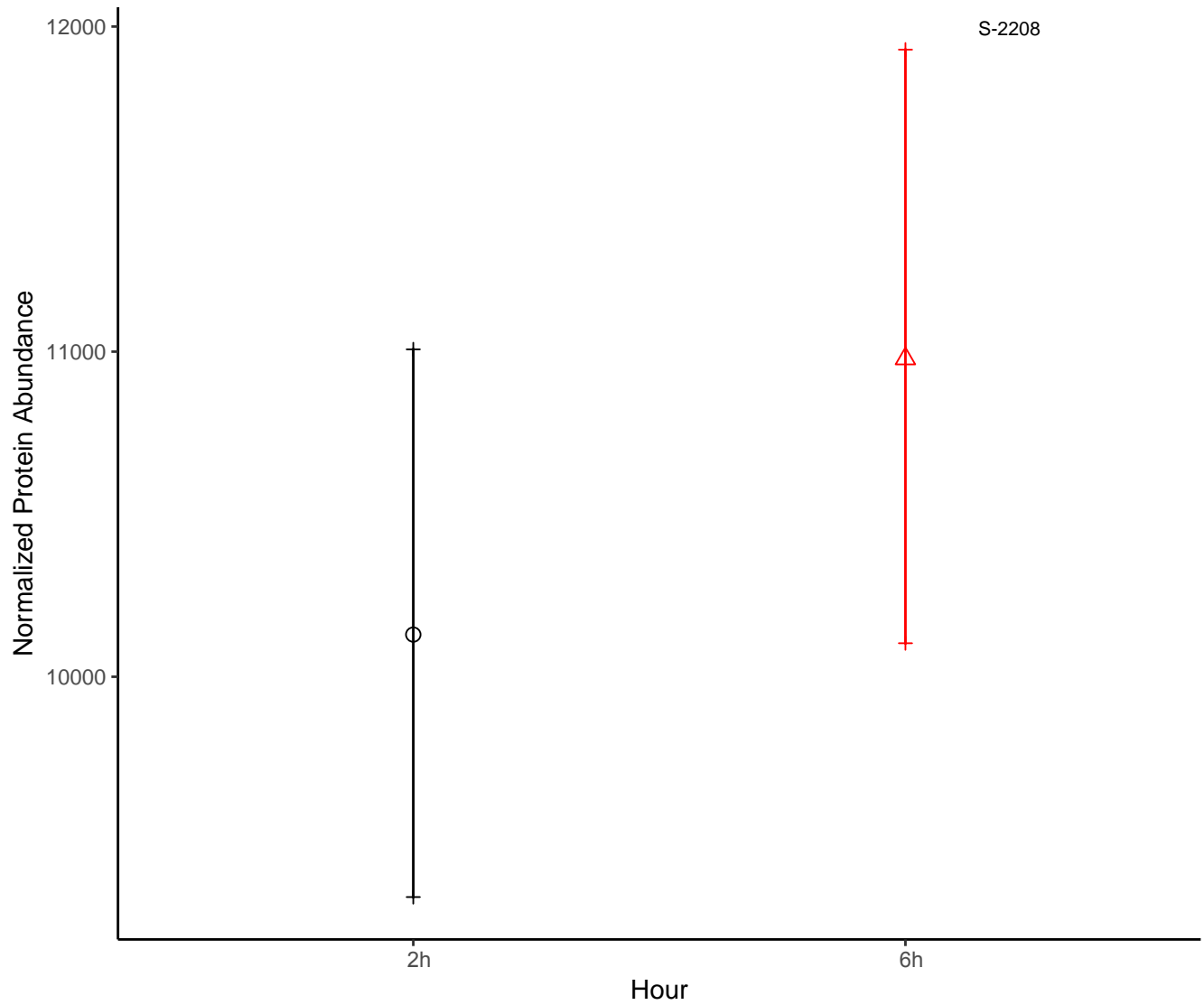
# MAZF\_STAAM



⊕ 2h

△ 6h

# MENB\_STAAM

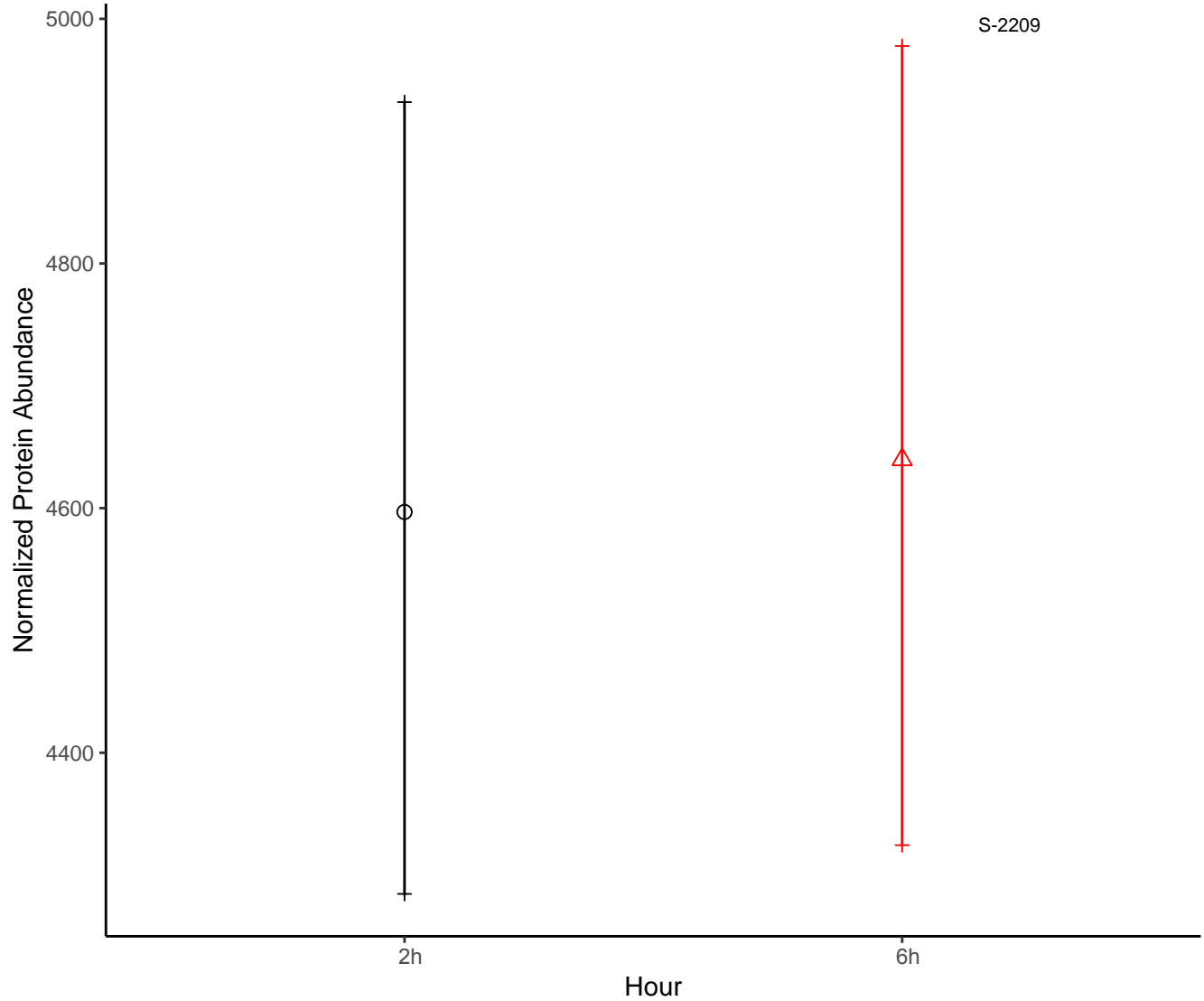


⊕ 2h

△ 6h



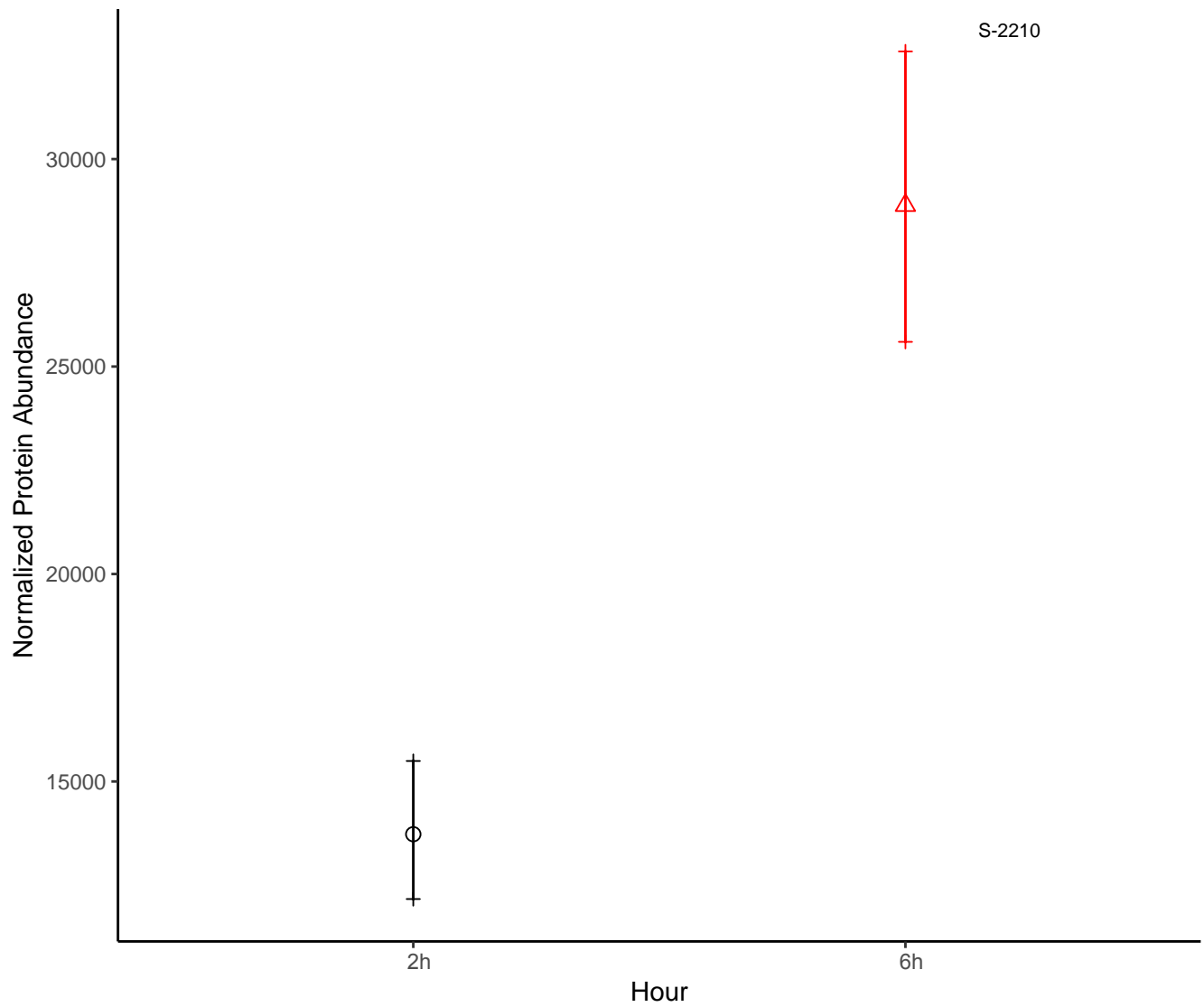
# MENG\_STAAM



⊕ 2h

△ 6h

# METK\_STAAM

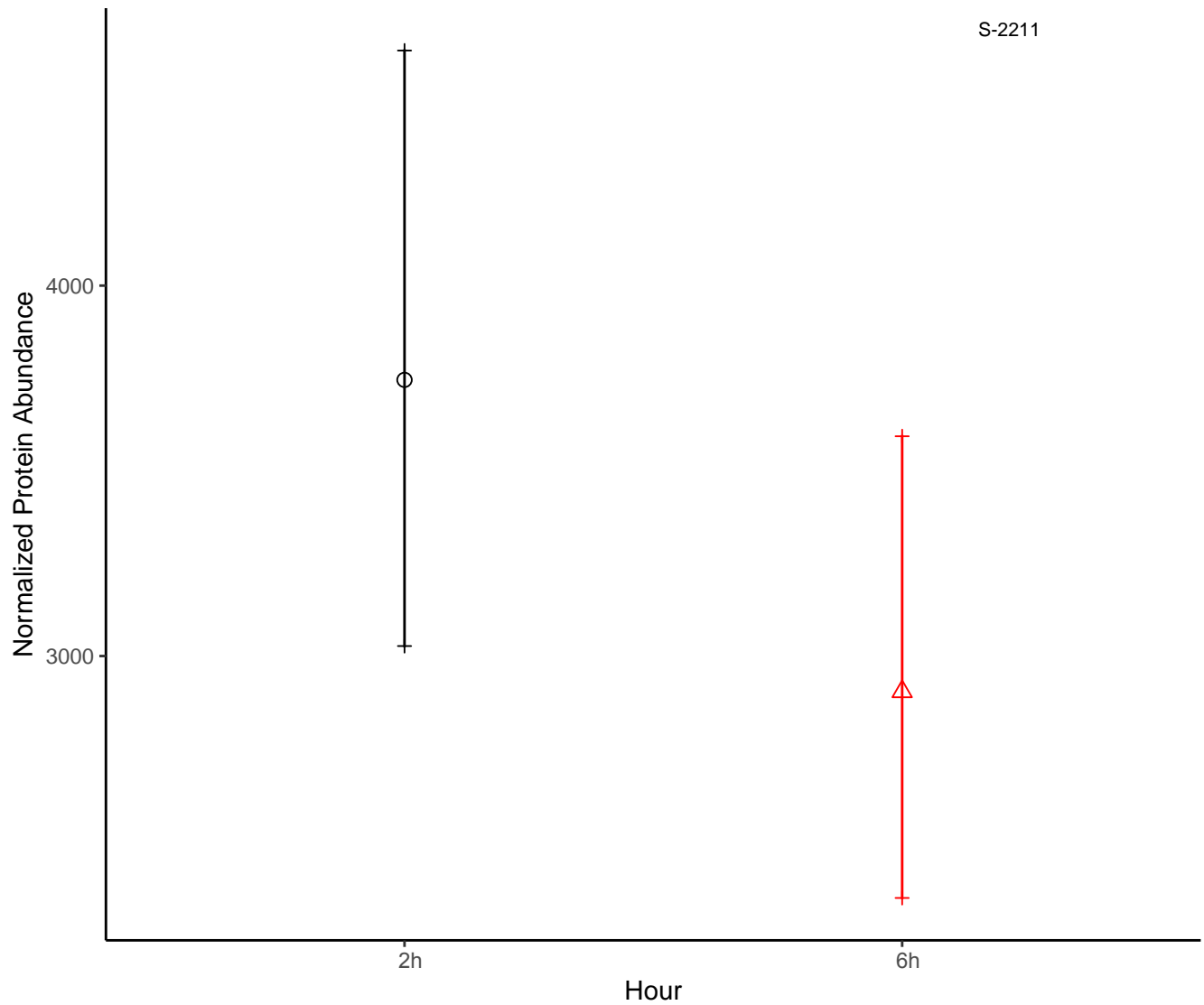


⊕ 2h

△ 6h

# METN2\_STAAM

S-2211

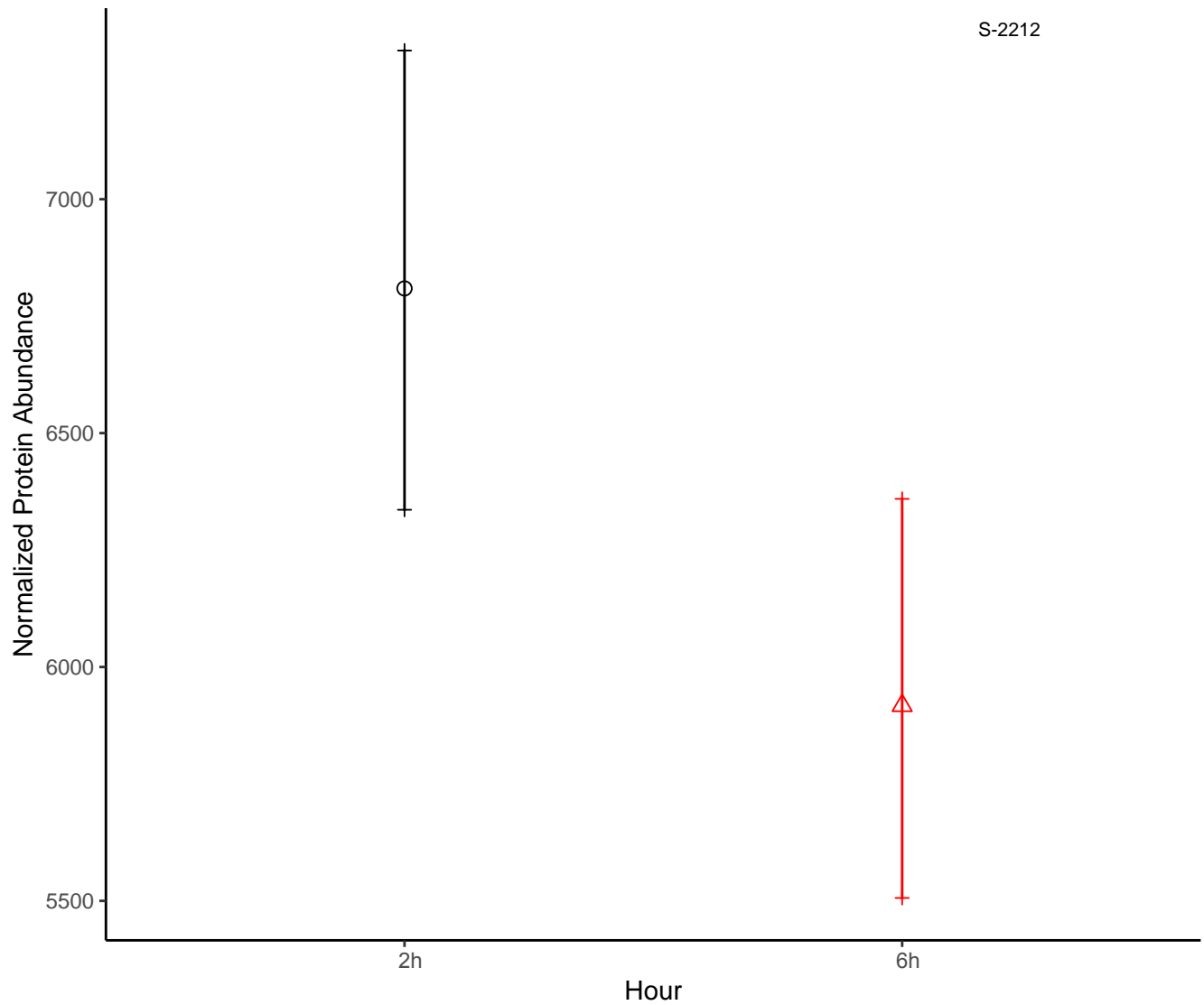


⊕ 2h

△ 6h

# MGRA\_STAAM

S-2212

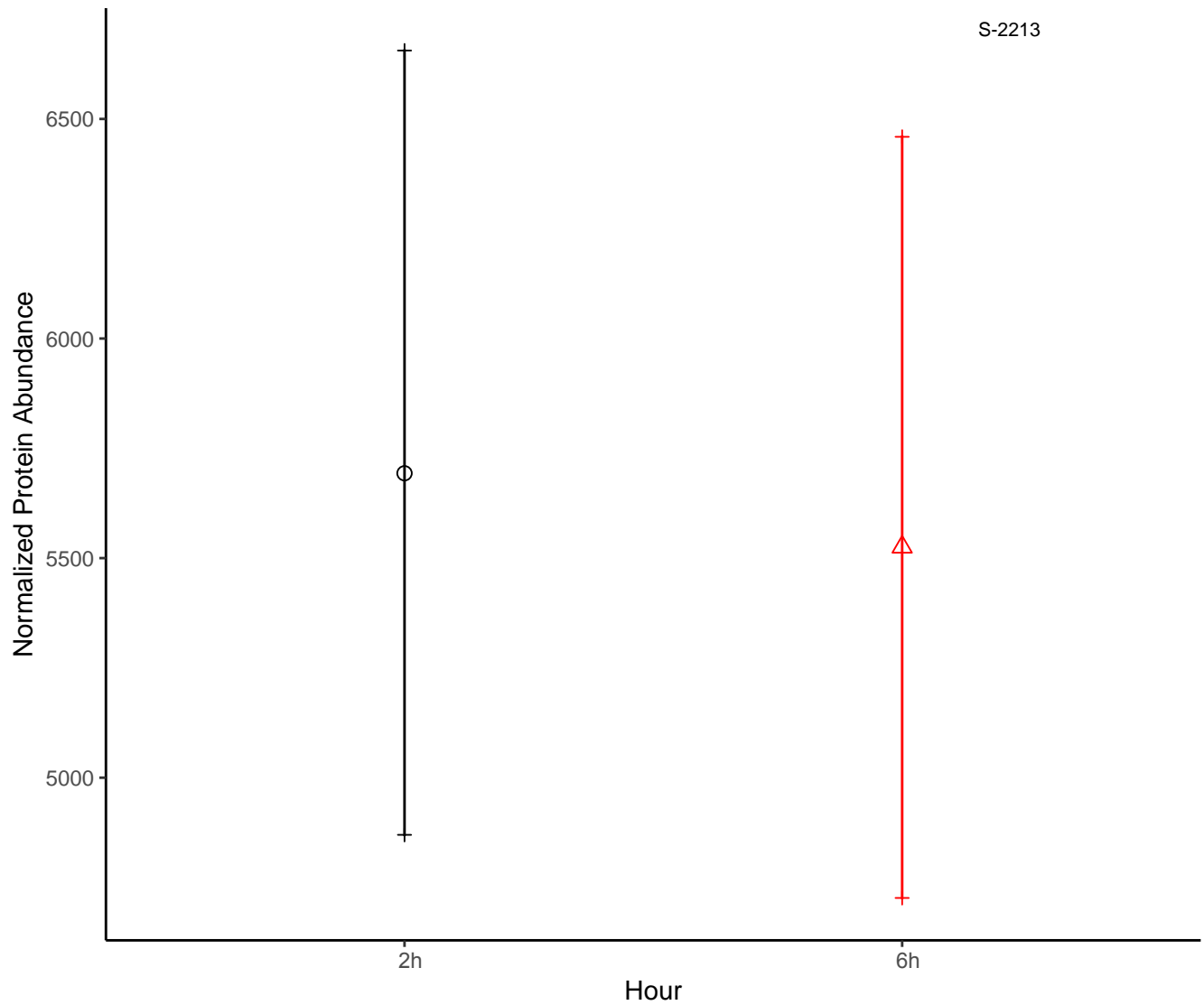


⊕ 2h

△ 6h

# MIAB\_STAAM

S-2213

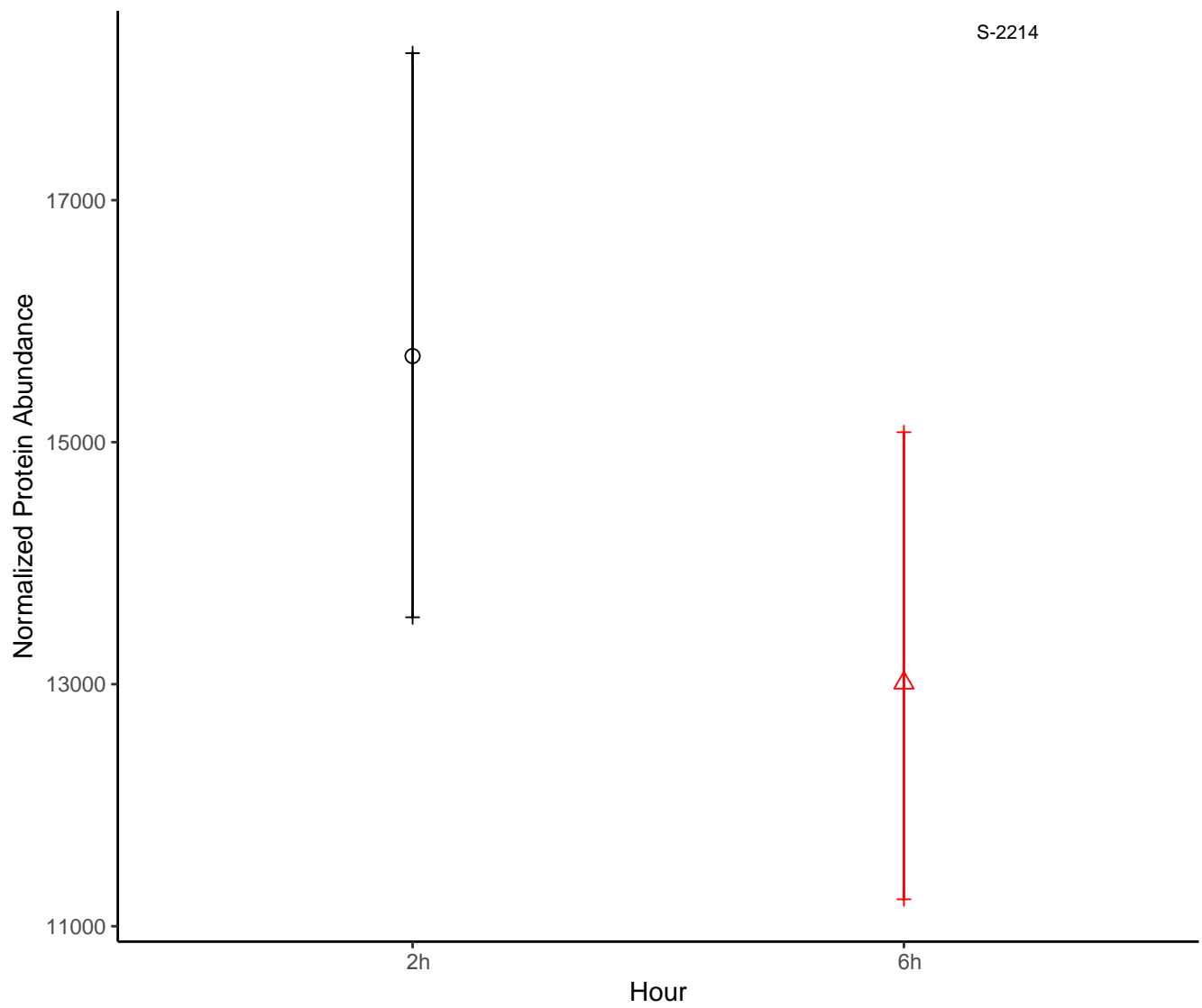


⊕ 2h

△ 6h

# MNME\_STAAM

S-2214

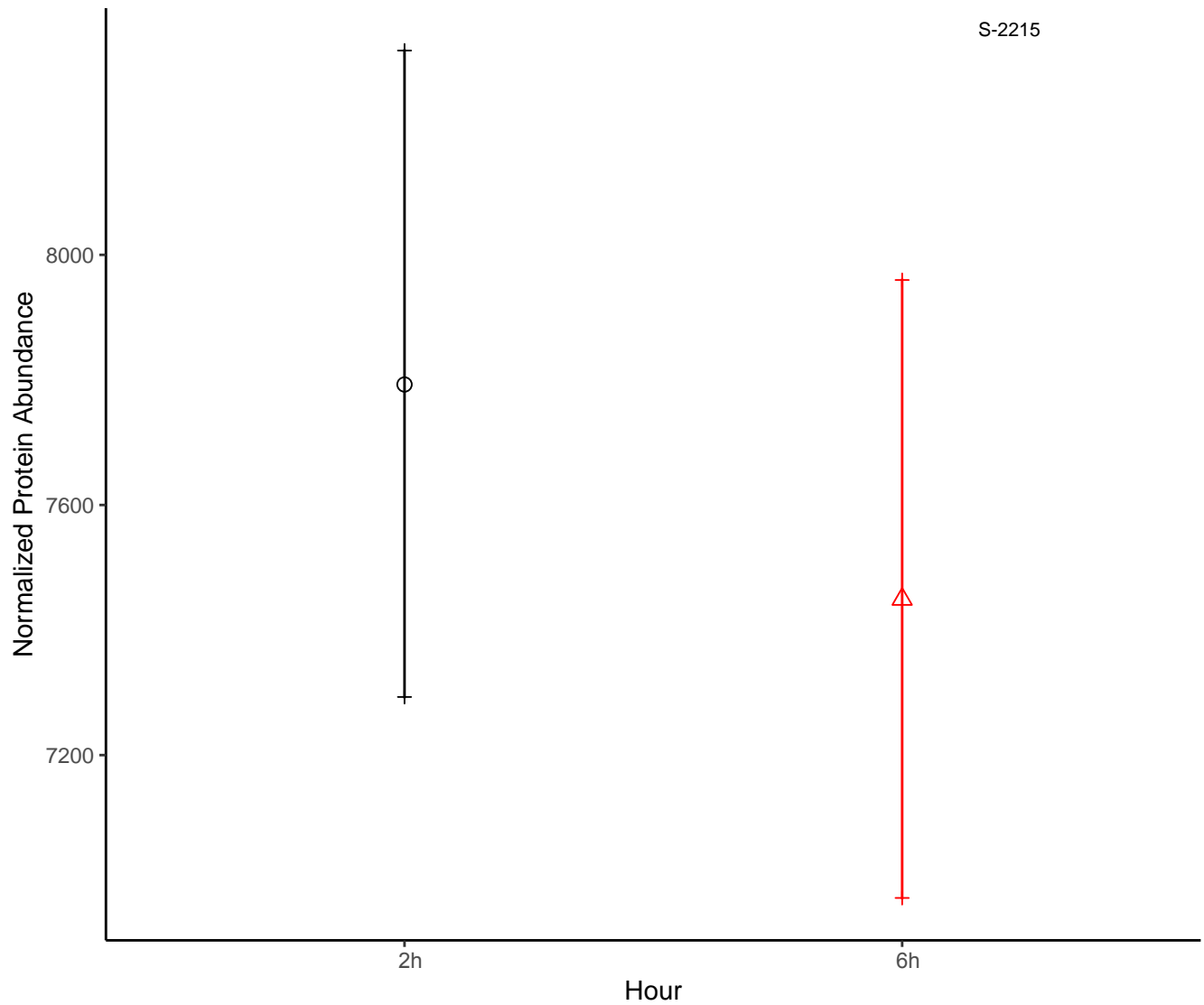


⊕ 2h

△ 6h

# MNMG\_STAAM

S-2215

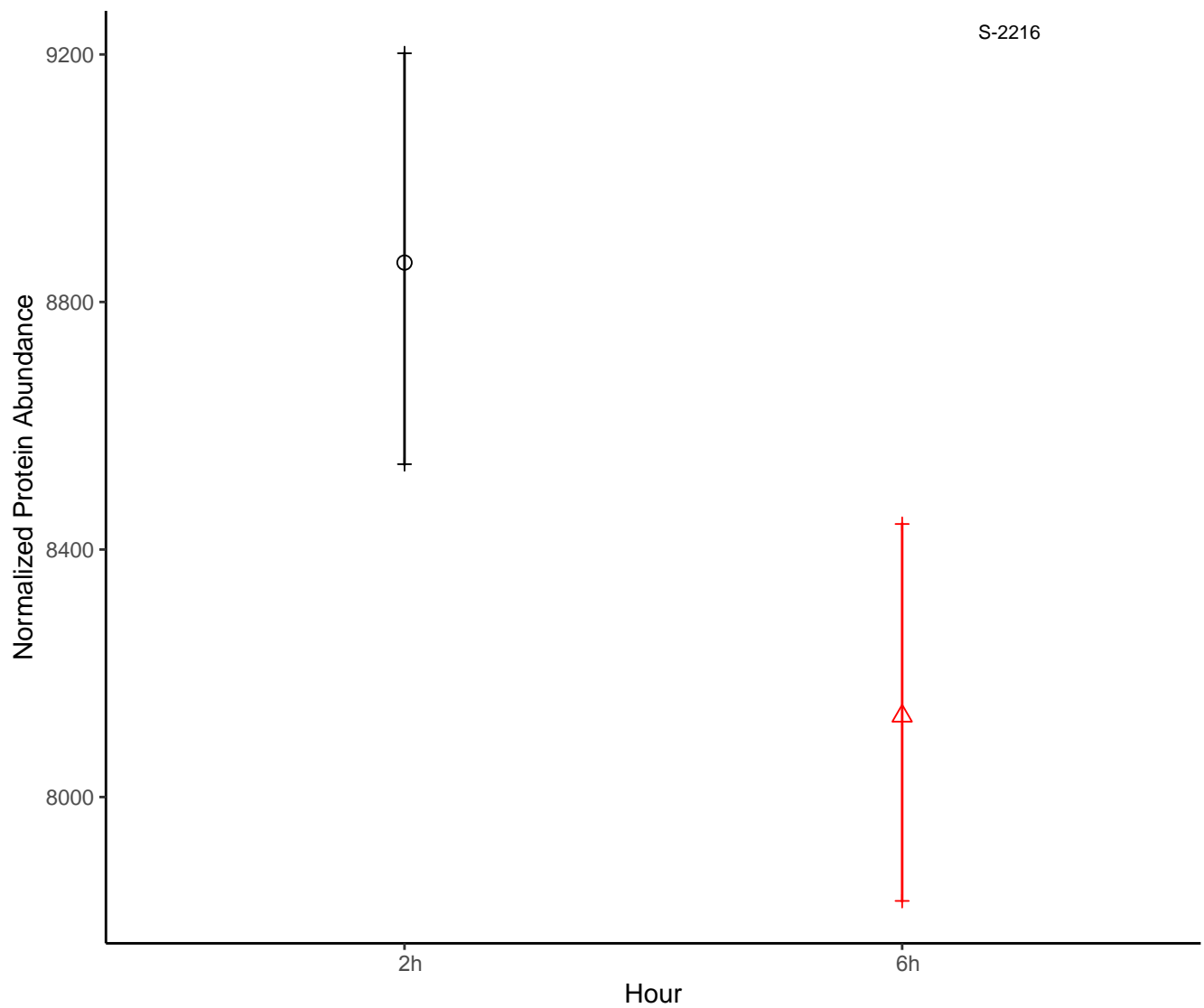


⊕ 2h

△ 6h

# MOAC\_STAAM

S-2216

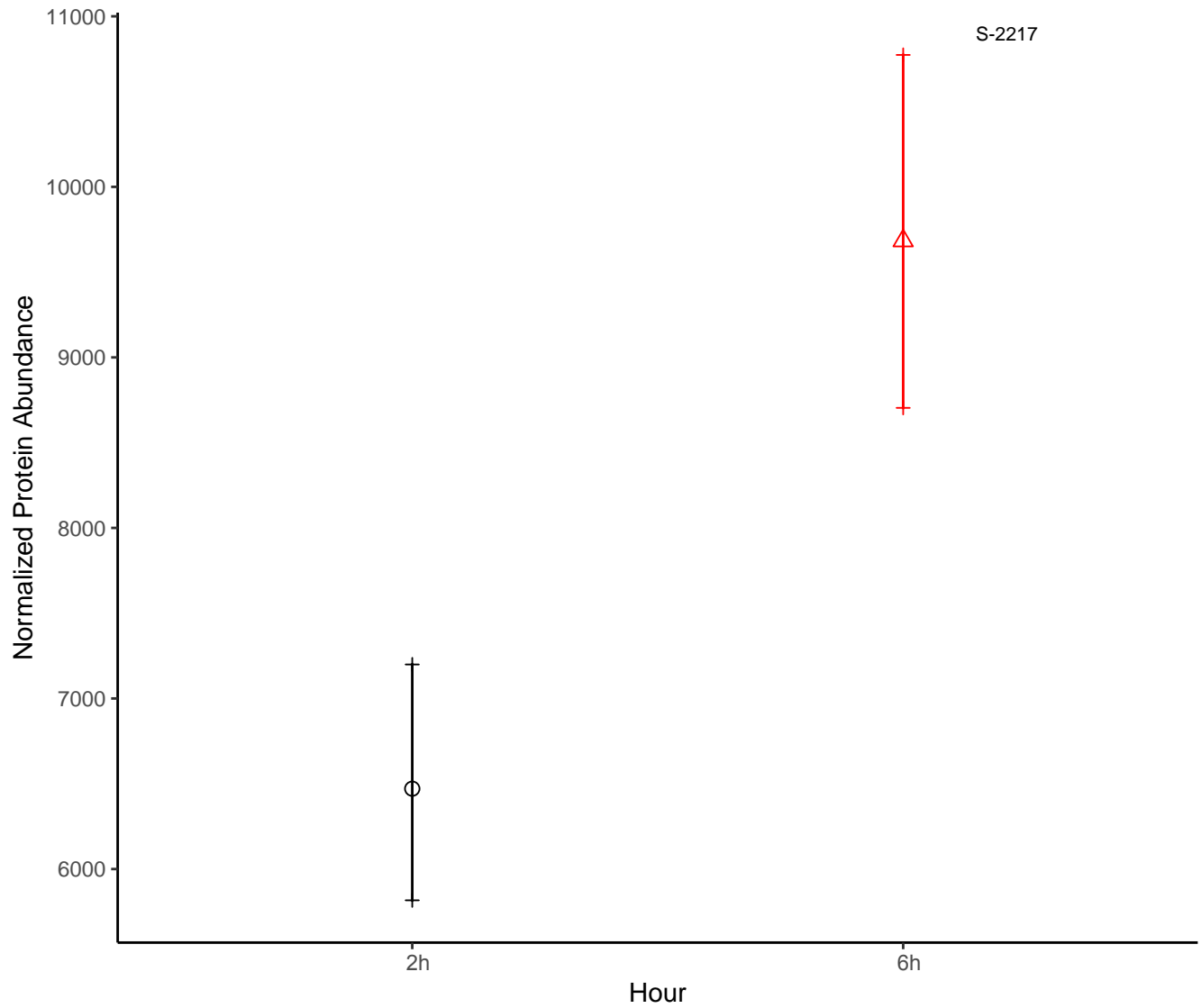


⊕ 2h

△ 6h



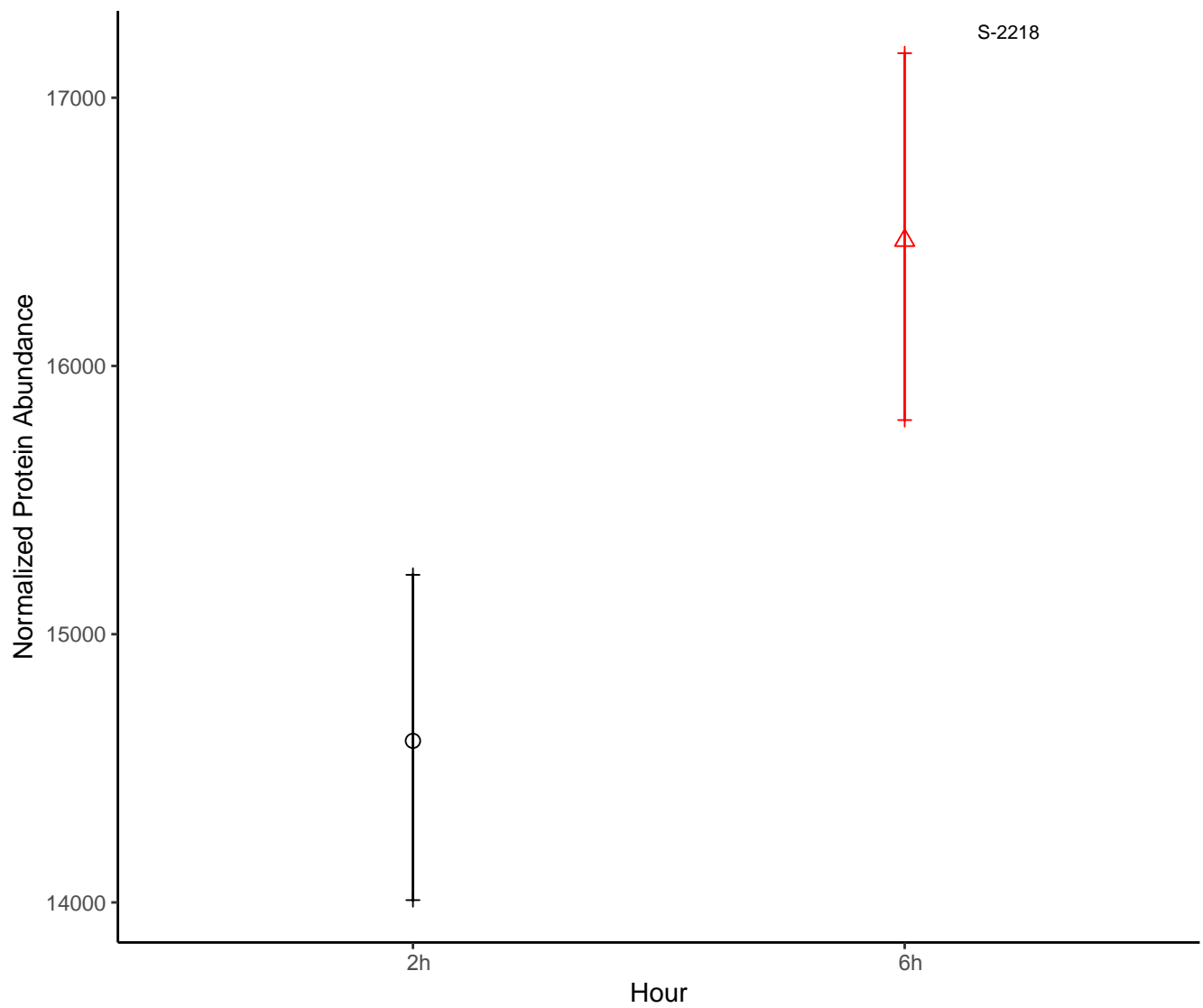
# MOEA\_STAAM



⊕ 2h

△ 6h

# MQO2\_STAAM

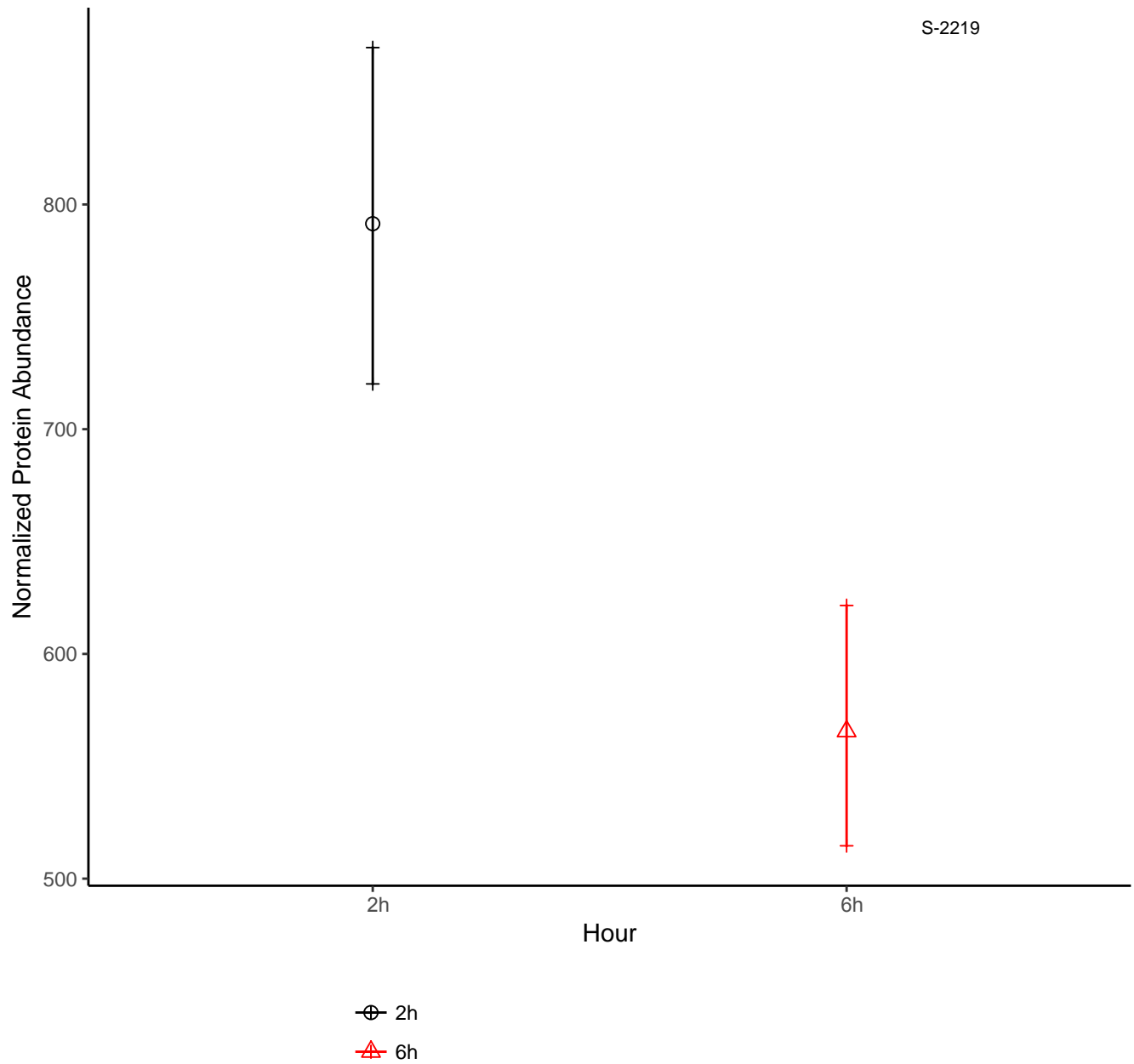


⊕ 2h

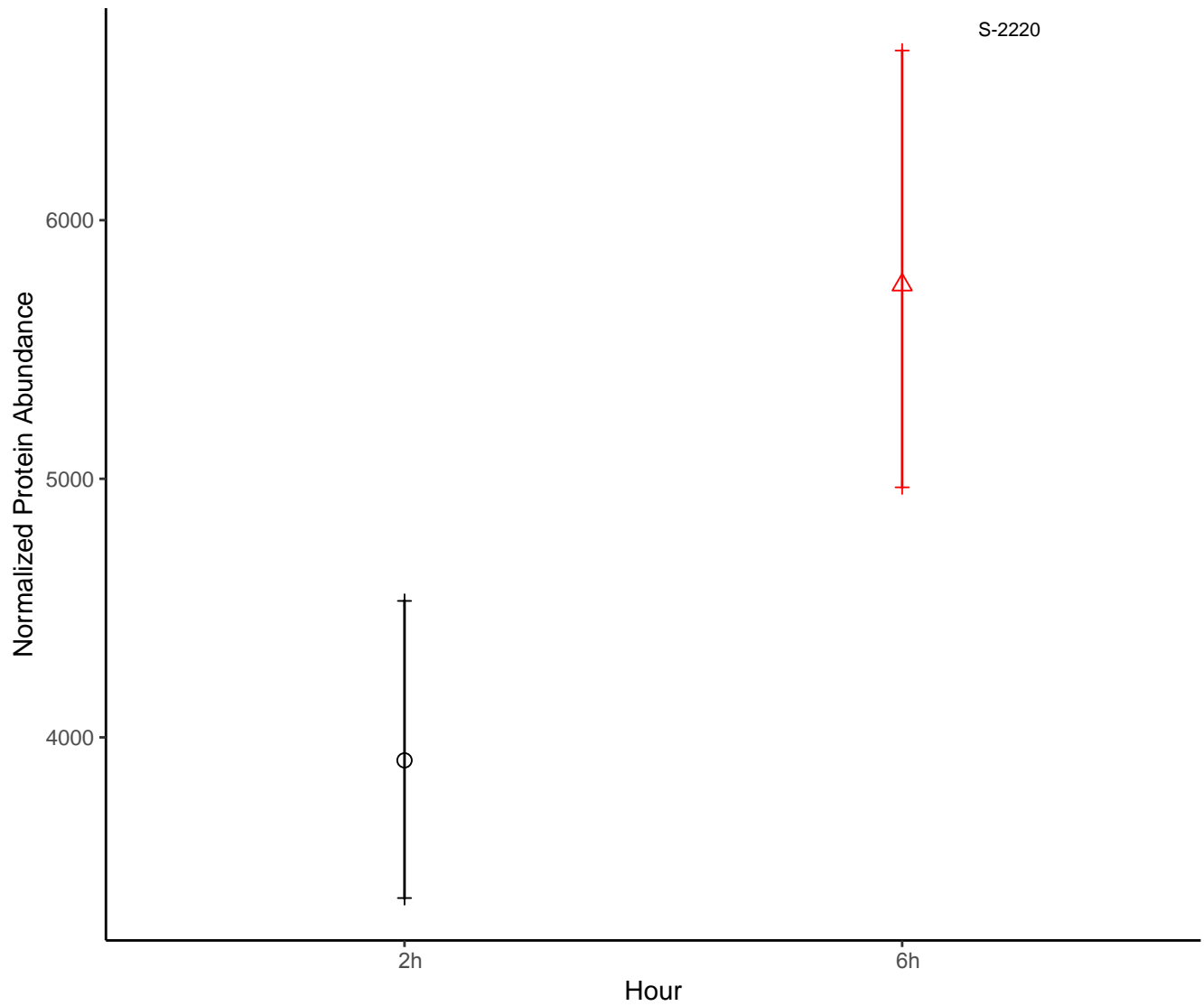
△ 6h

# MSRA1\_STAAM

S-2219



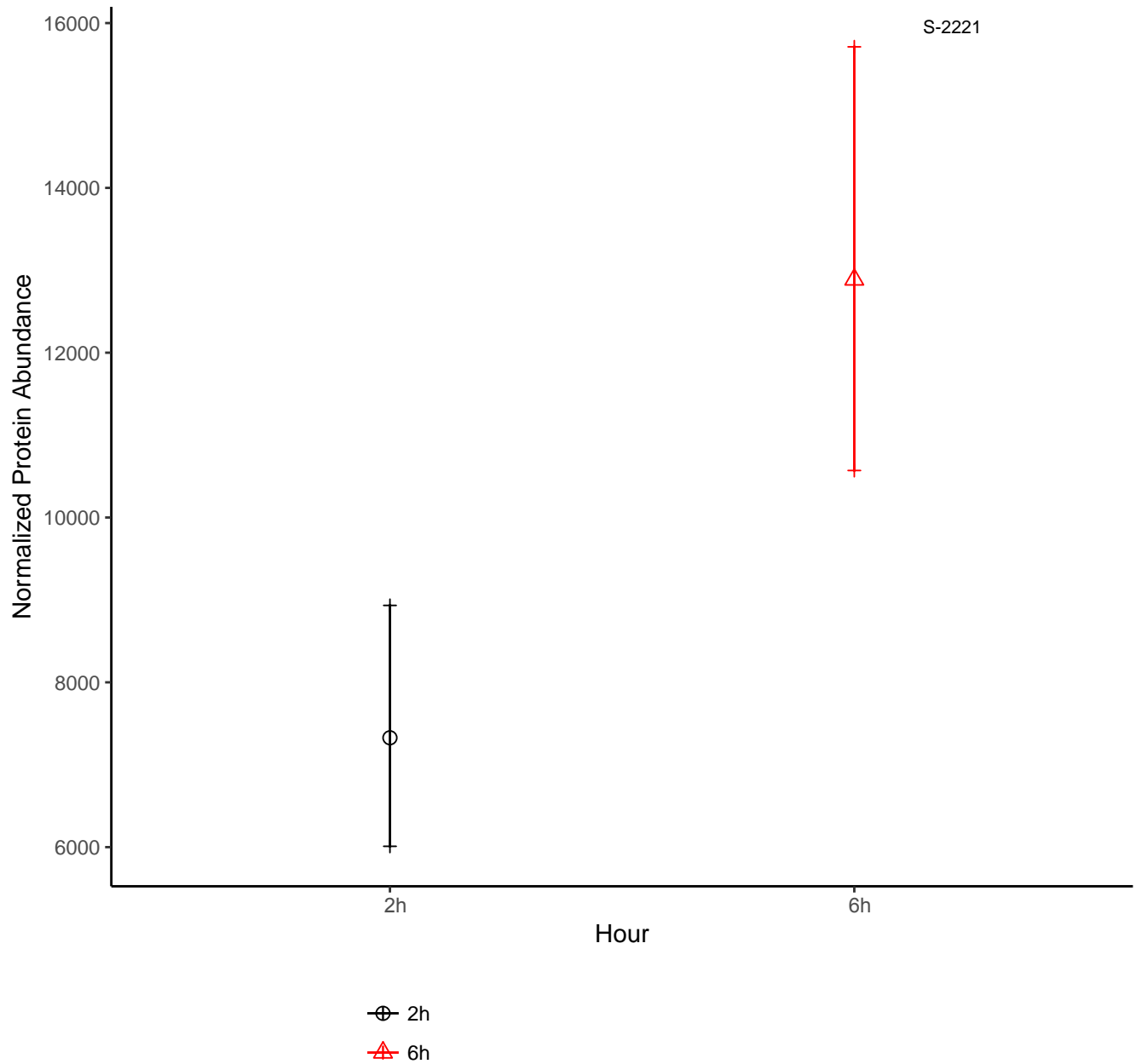
# MSRA2\_STAAM



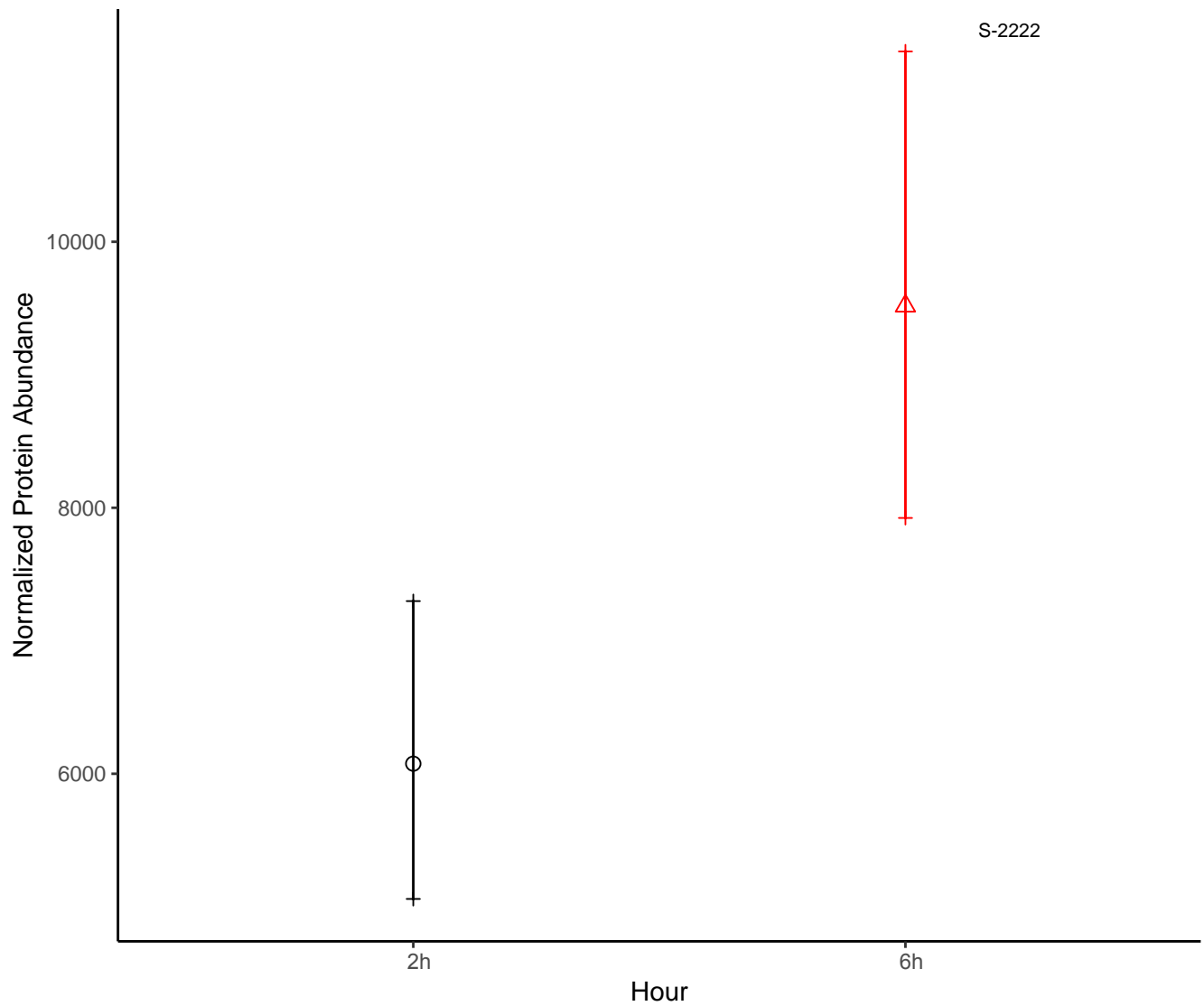
⊕ 2h

△ 6h

# MSRB\_STAAM



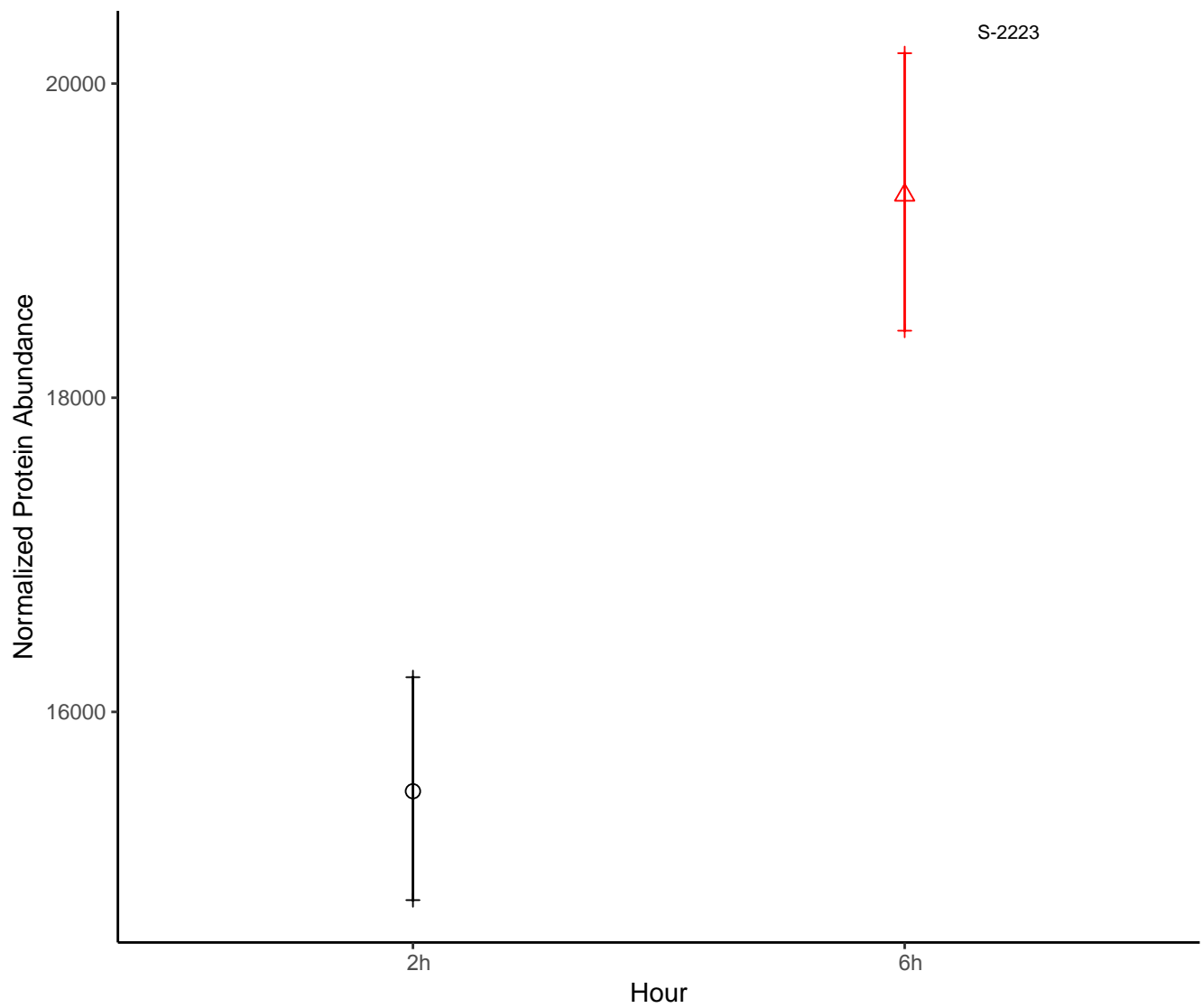
# MTLD\_STAAM



⊕ 2h

△ 6h

# MTNN\_STAAM

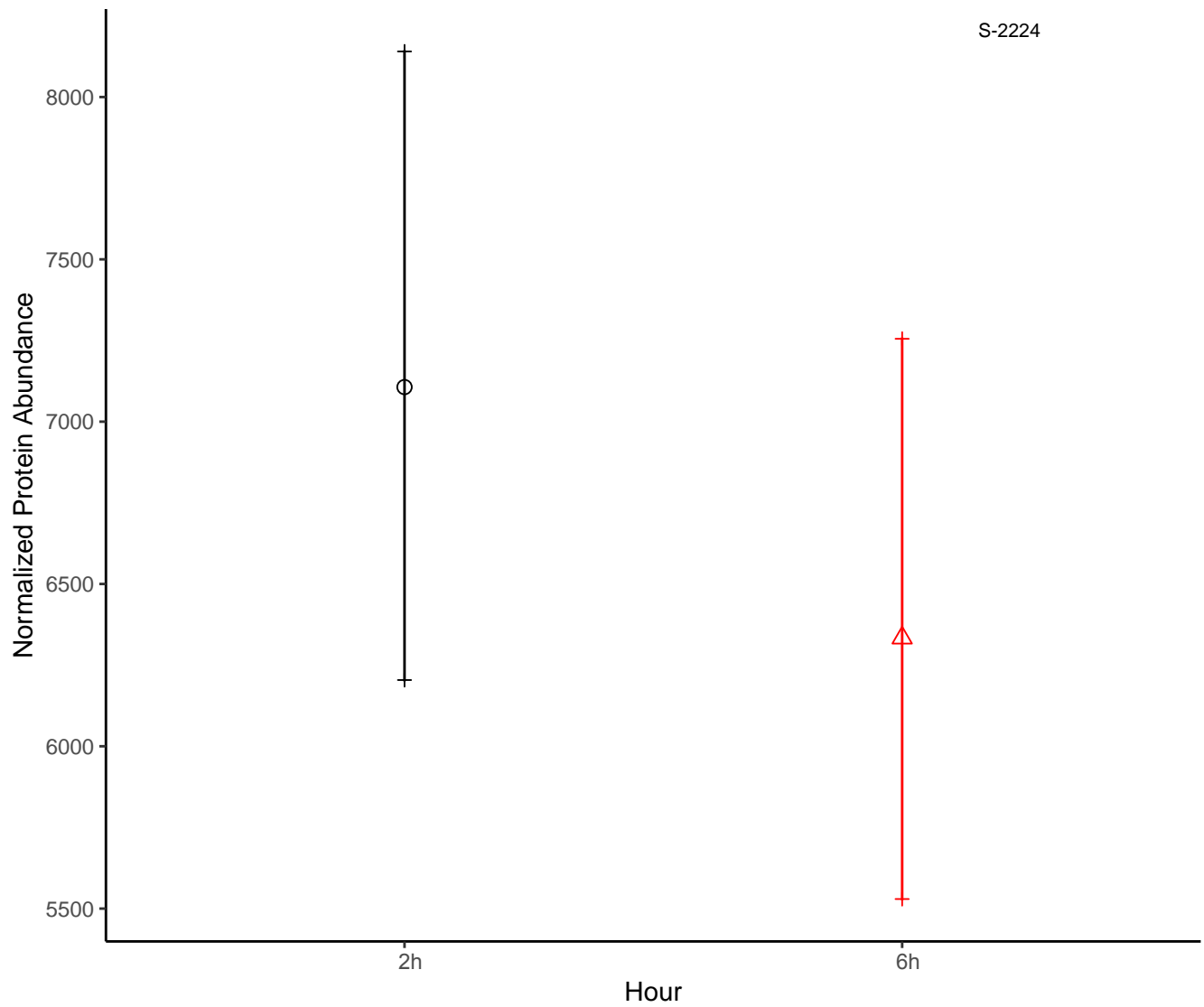


⊕ 2h

△ 6h

# MURA1\_STAAM

S-2224



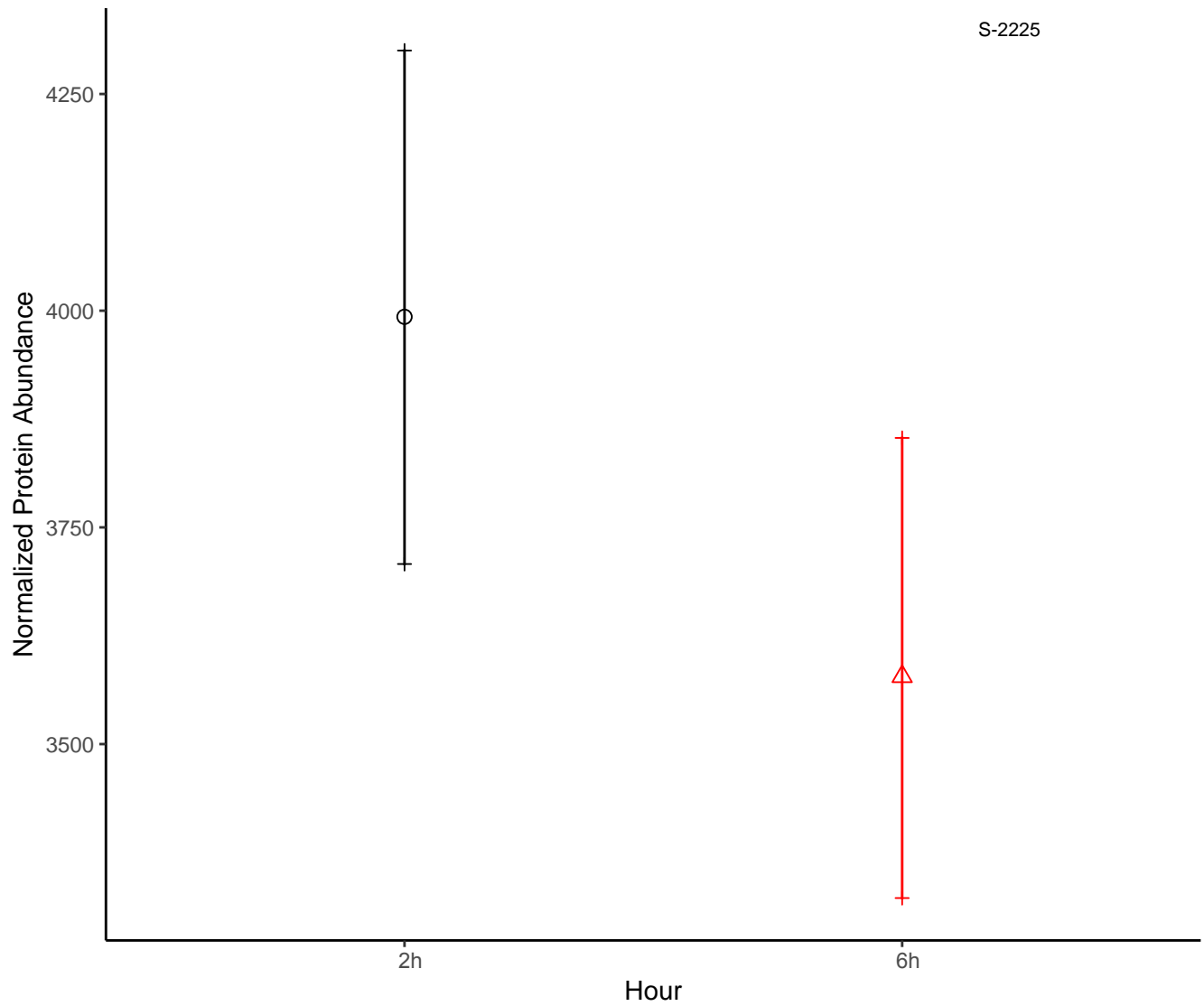
⊕ 2h

△ 6h



# MURA2\_STAAM

S-2225

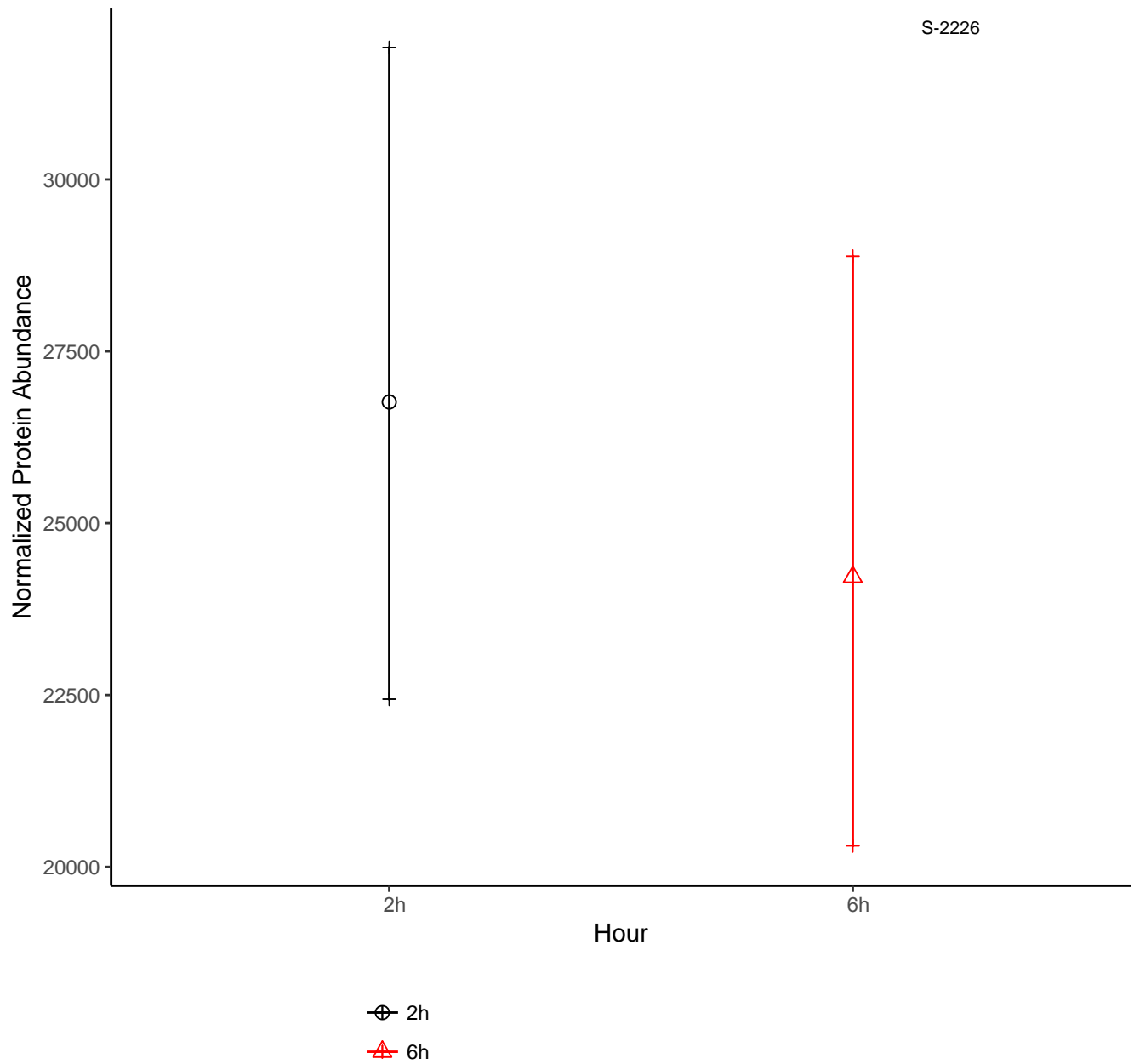


⊕ 2h

△ 6h

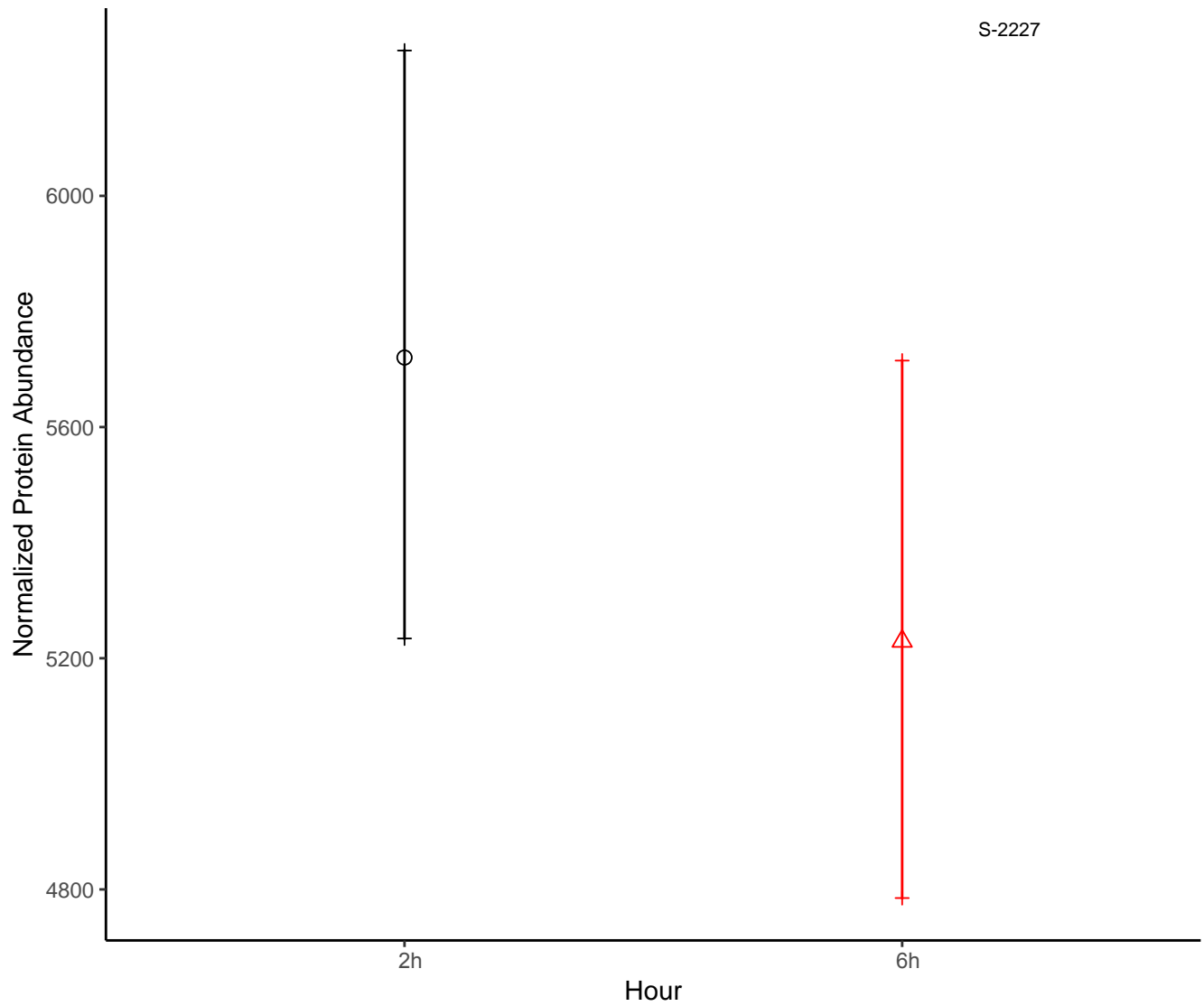
# MURC\_STAAM

S-2226



# MURD\_STAAM

S-2227

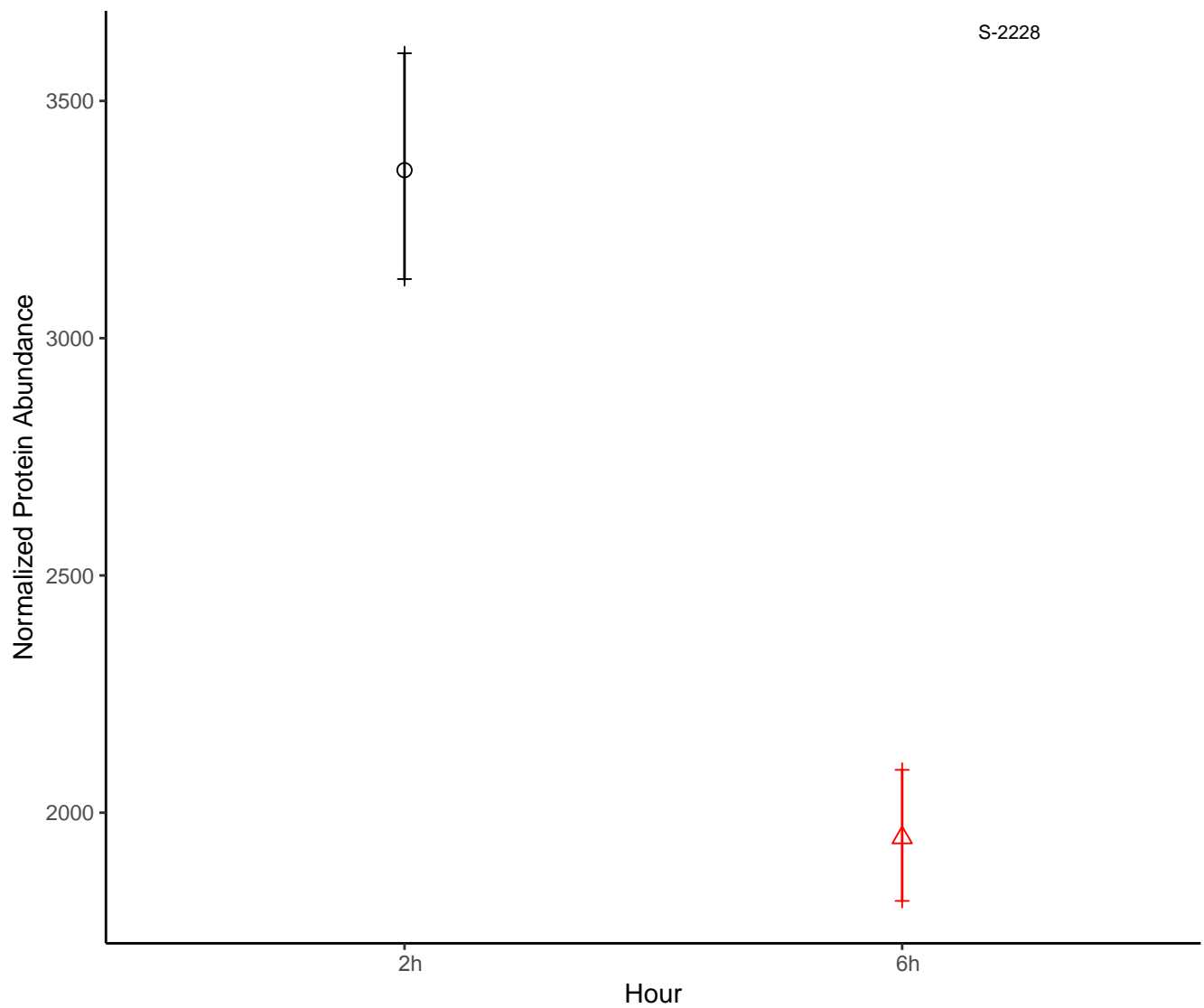


⊕ 2h

△ 6h

# MURE\_STAAM

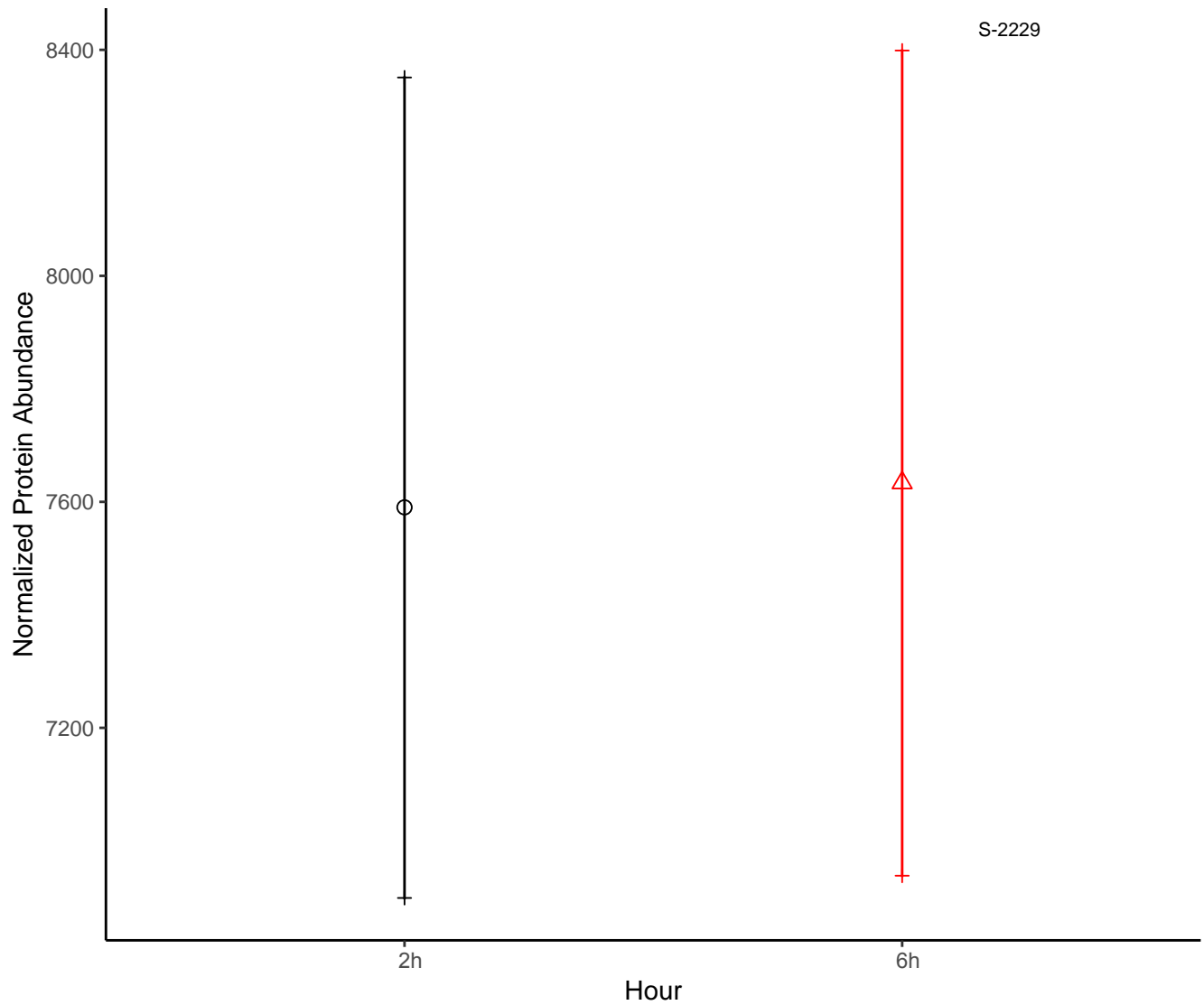
S-2228



⊕ 2h

△ 6h

# MURG\_STAAM

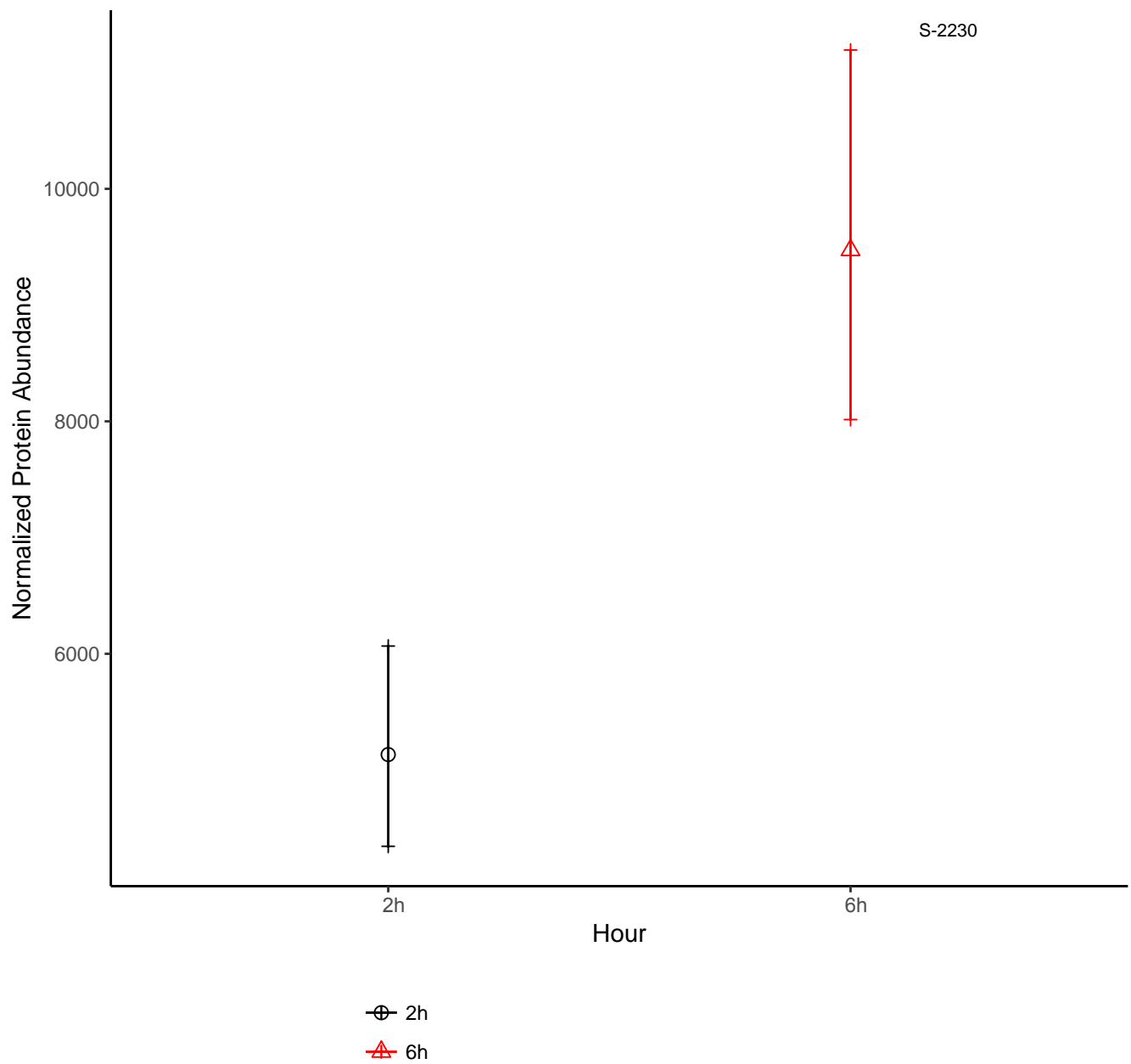


S-2229

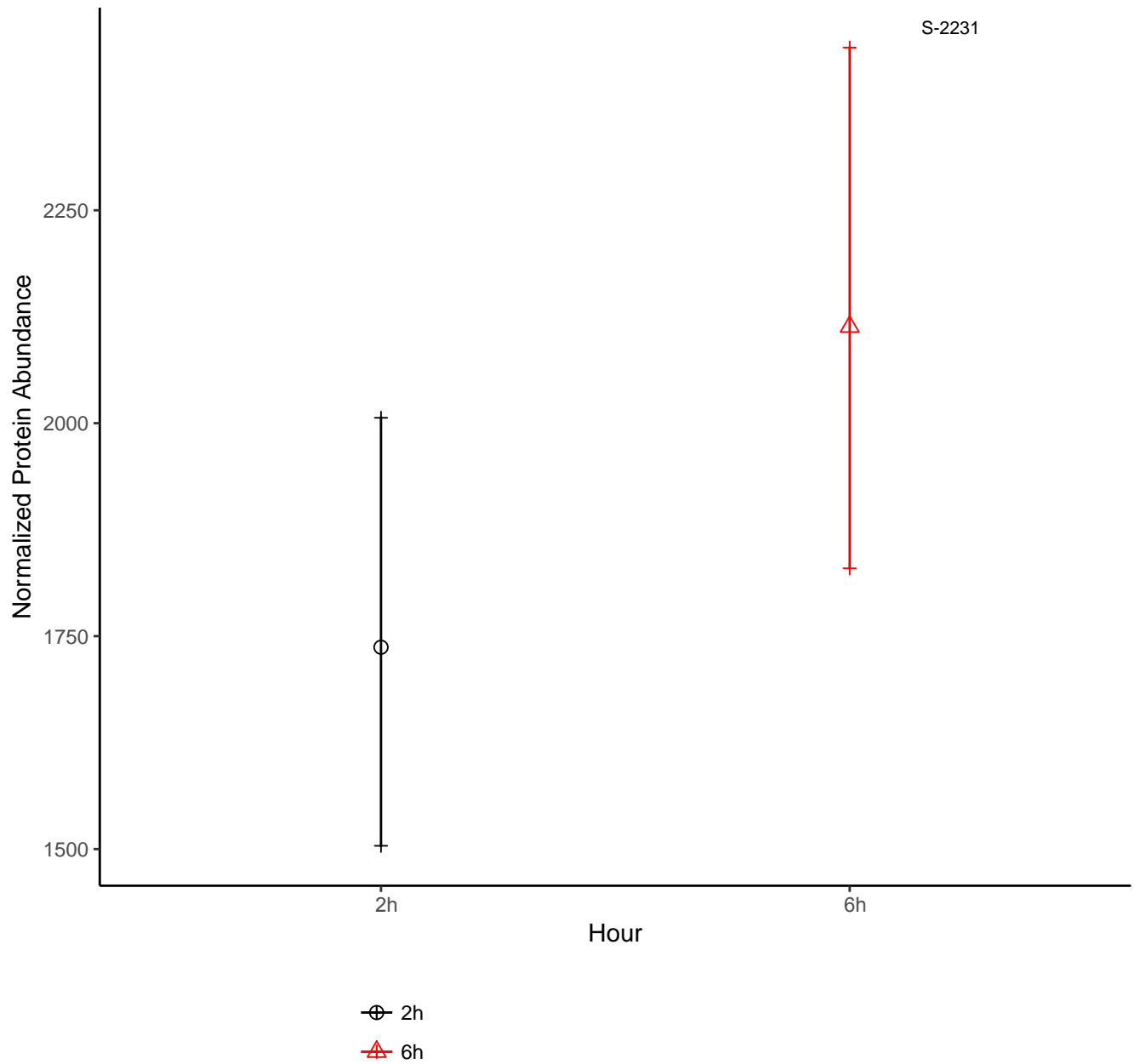
⊕ 2h

△ 6h

# MURI\_STAAM

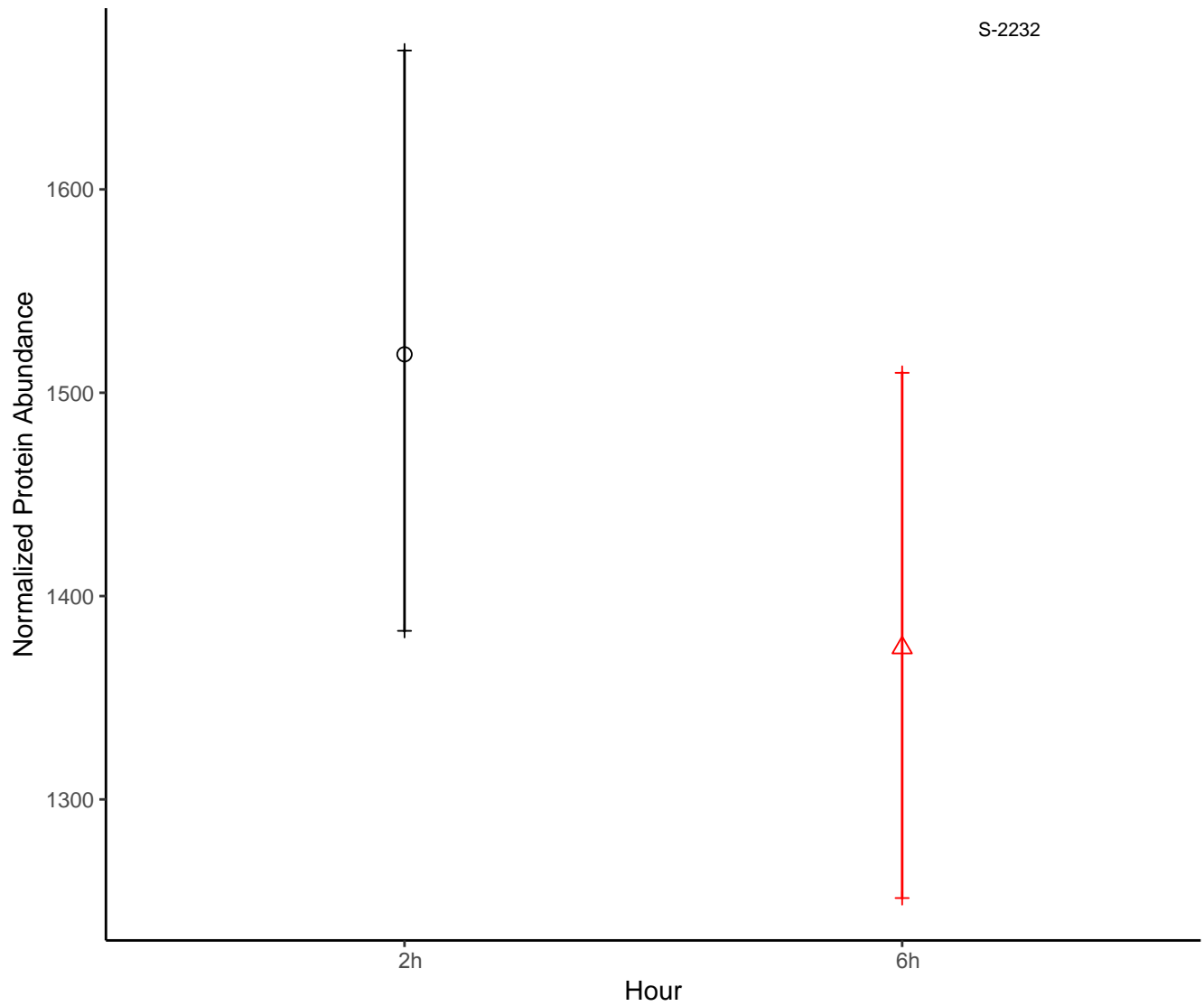


# MUTS\_STAAM



# NADD\_STAAM

S-2232

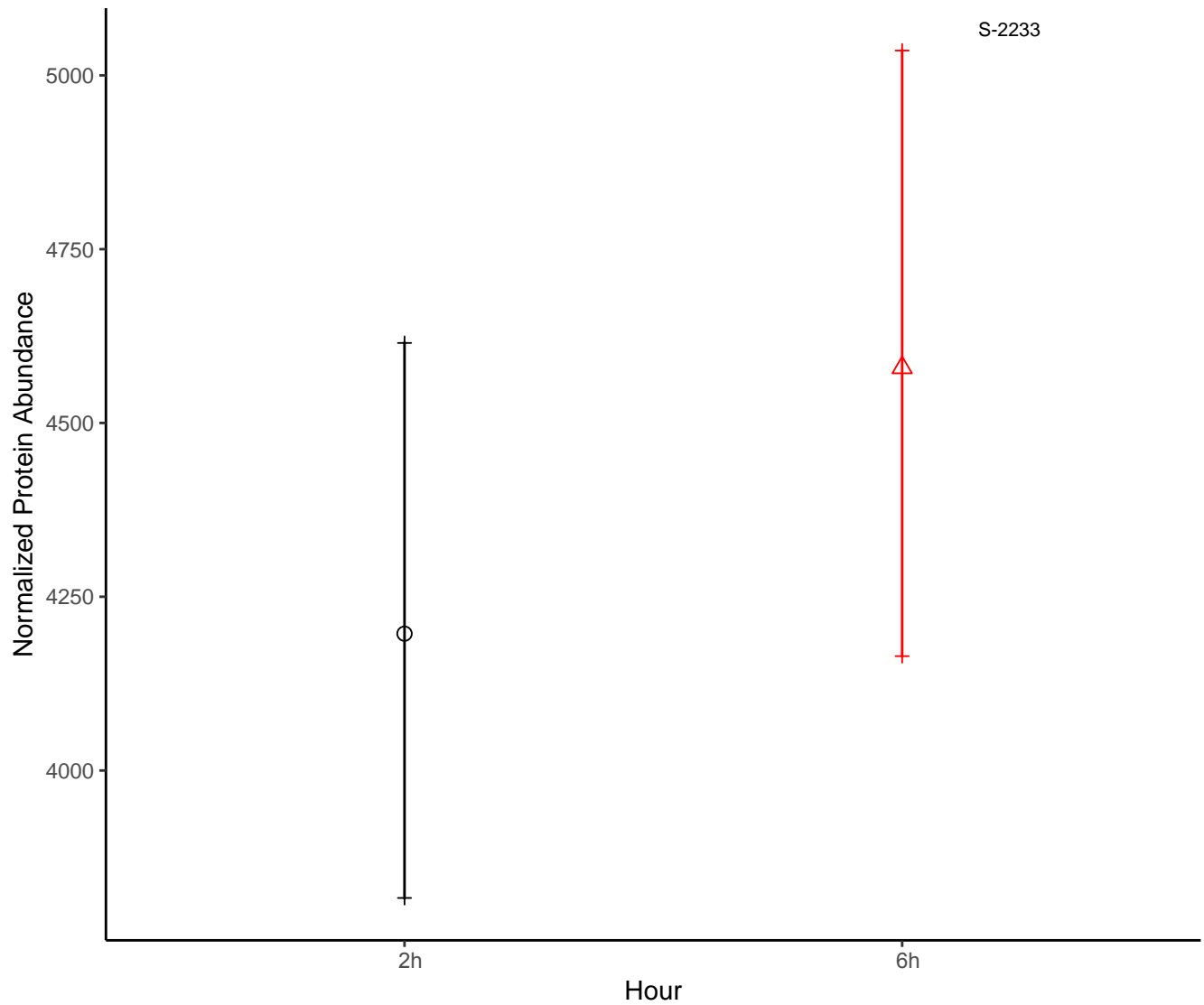


⊕ 2h

△ 6h



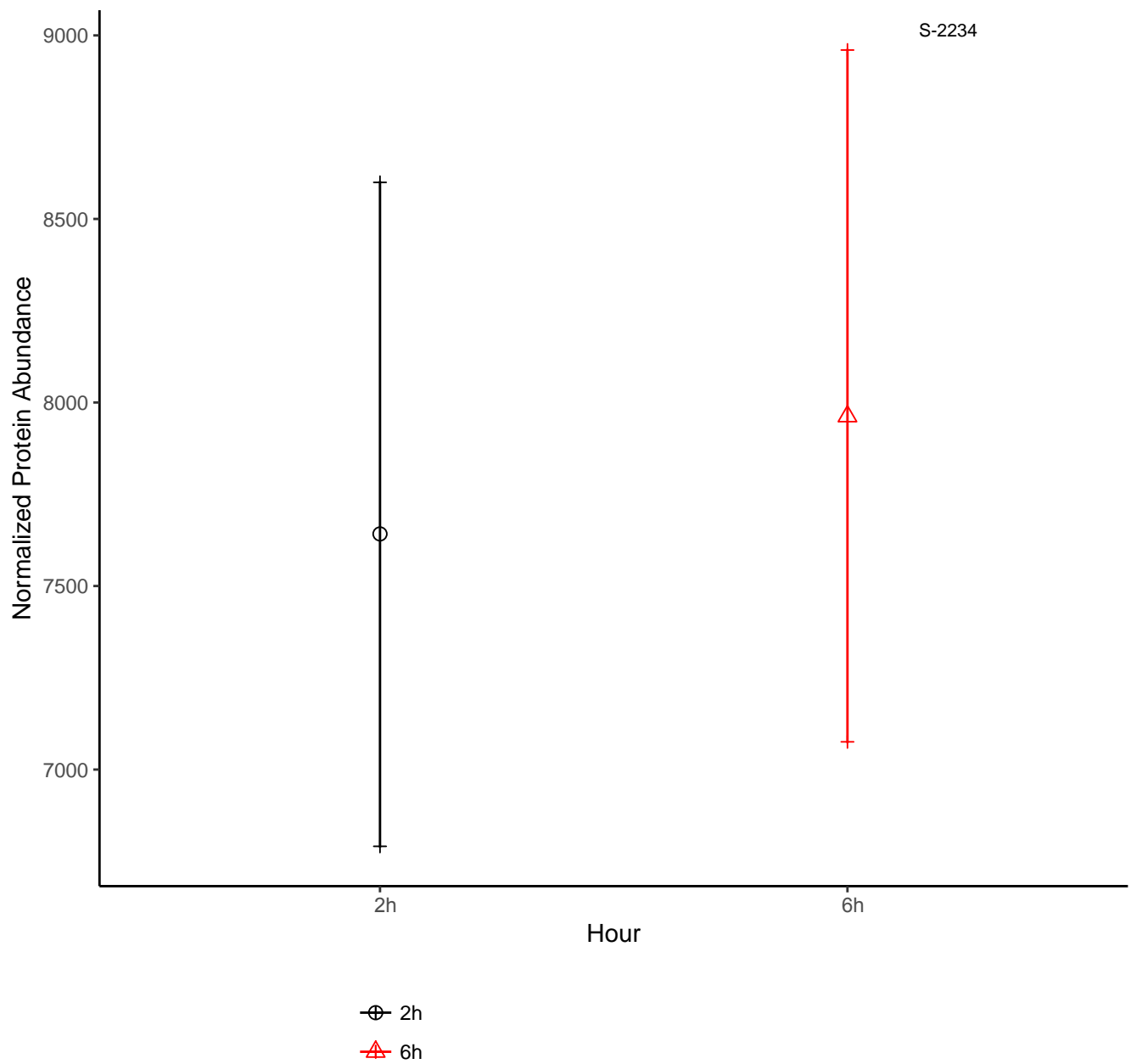
# NADE\_STAAM



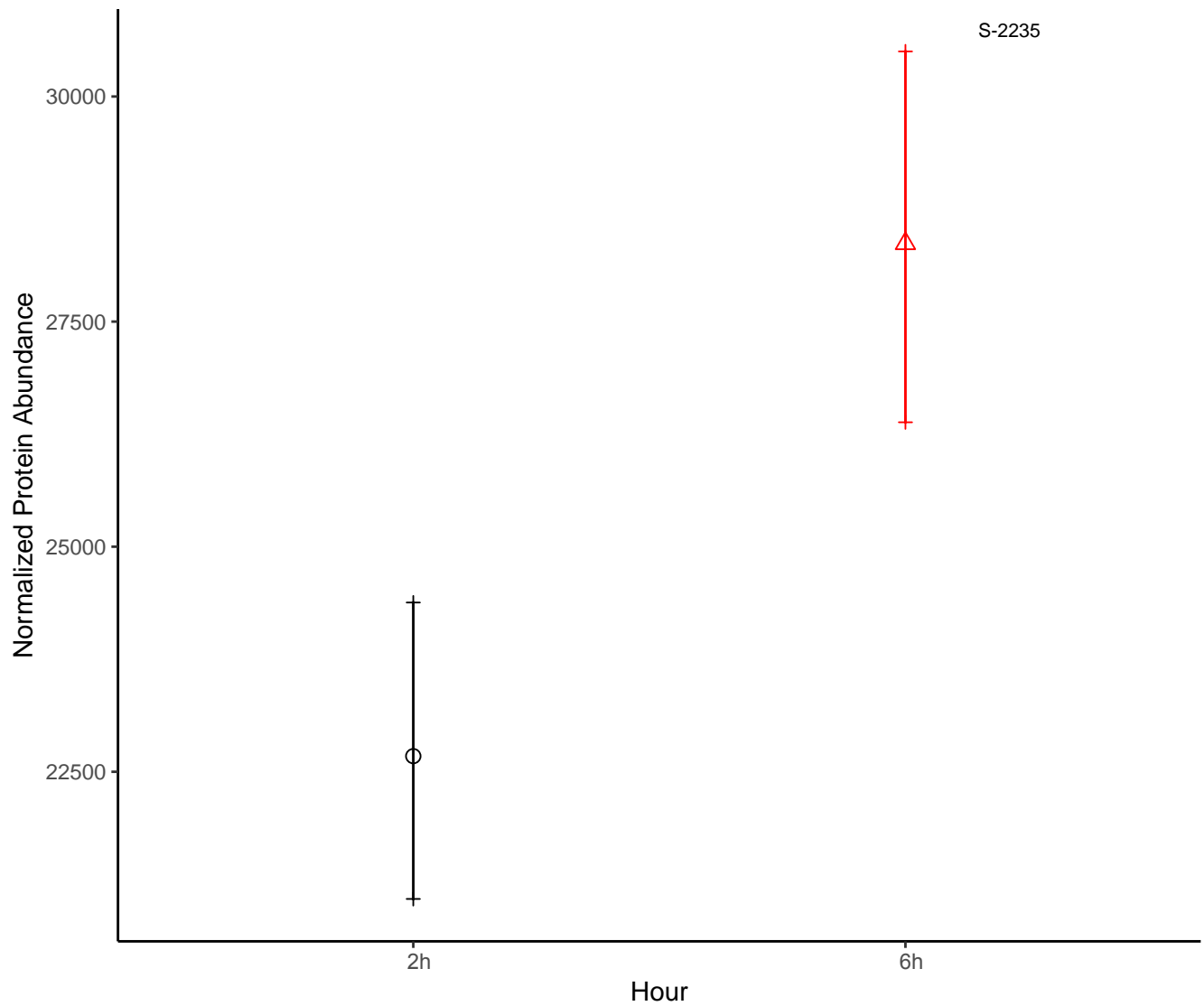
⊕ 2h

△ 6h

# NAGD\_STAAM



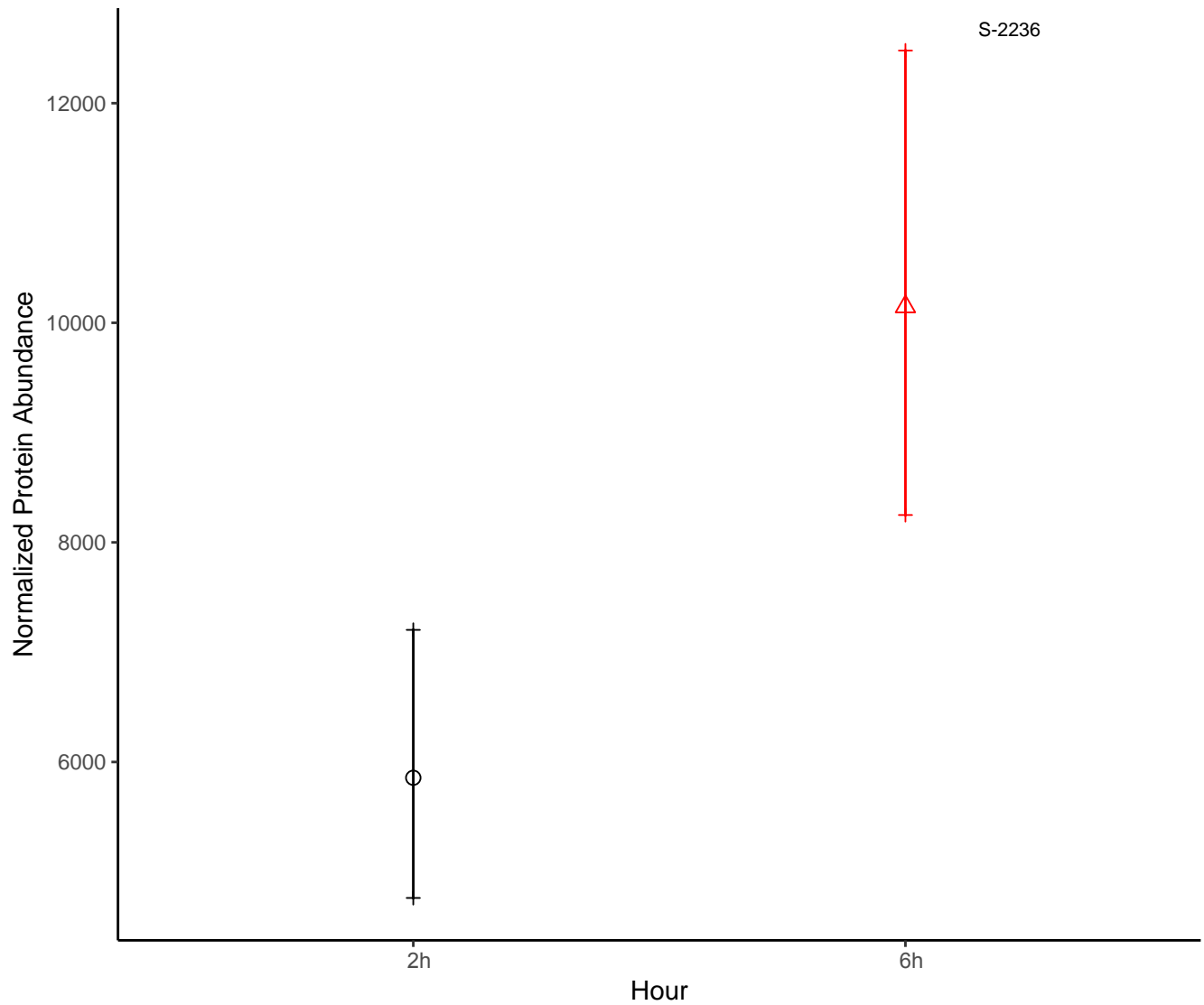
# NDK\_STAAM



⊕ 2h

△ 6h

# NRDR\_STAAM

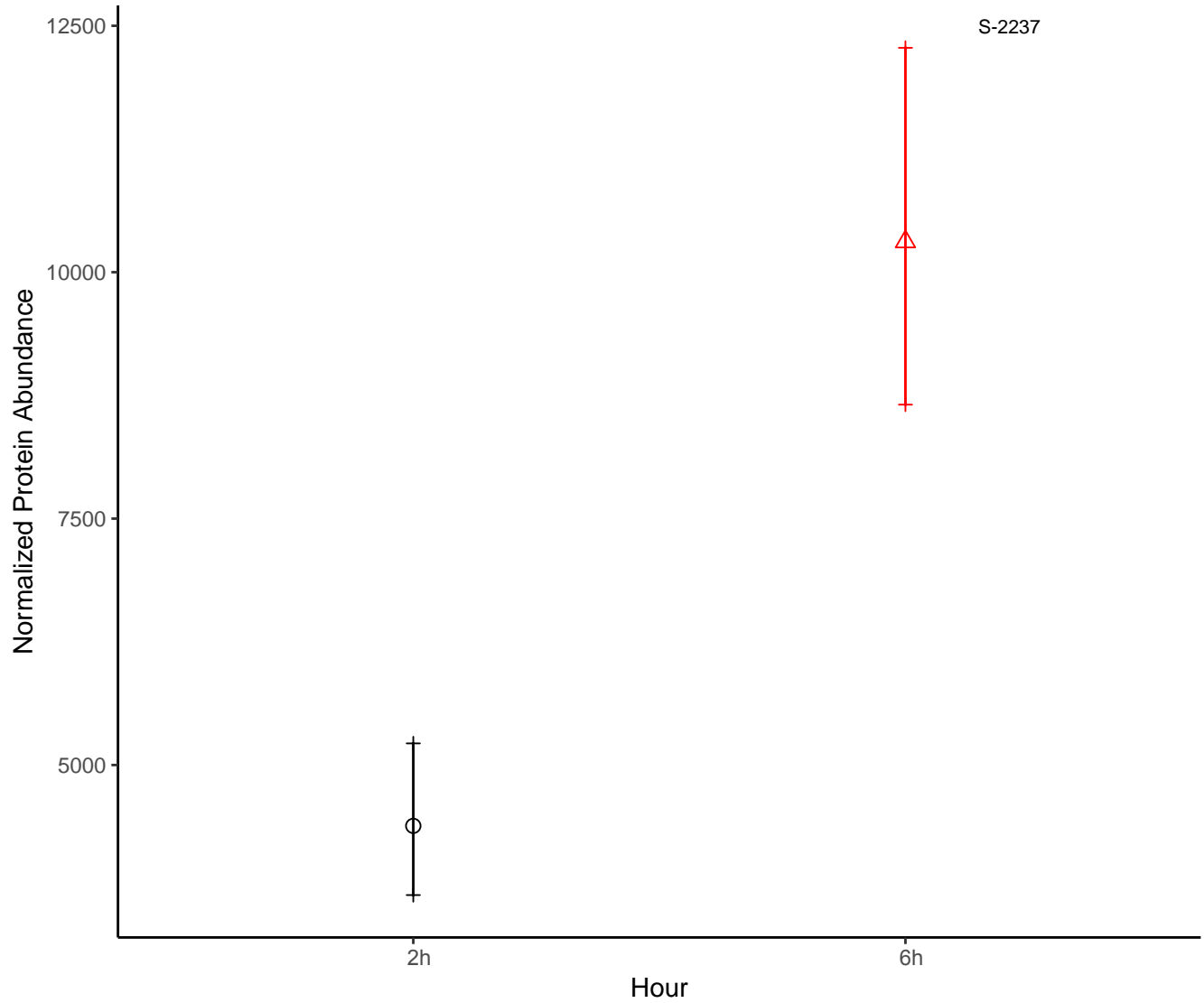


S-2236

⊕ 2h

△ 6h

# NREB\_STAAM

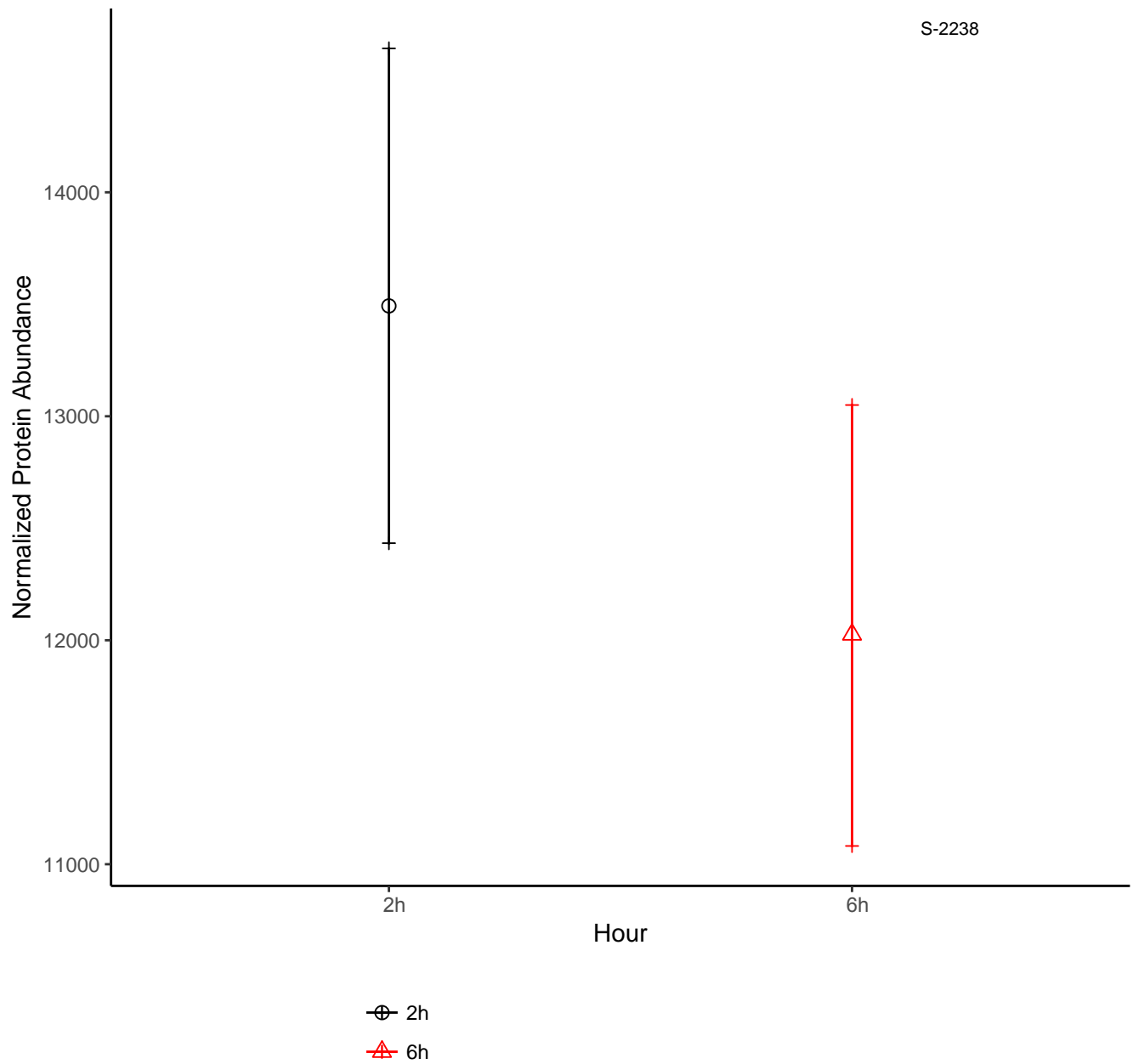


⊕ 2h

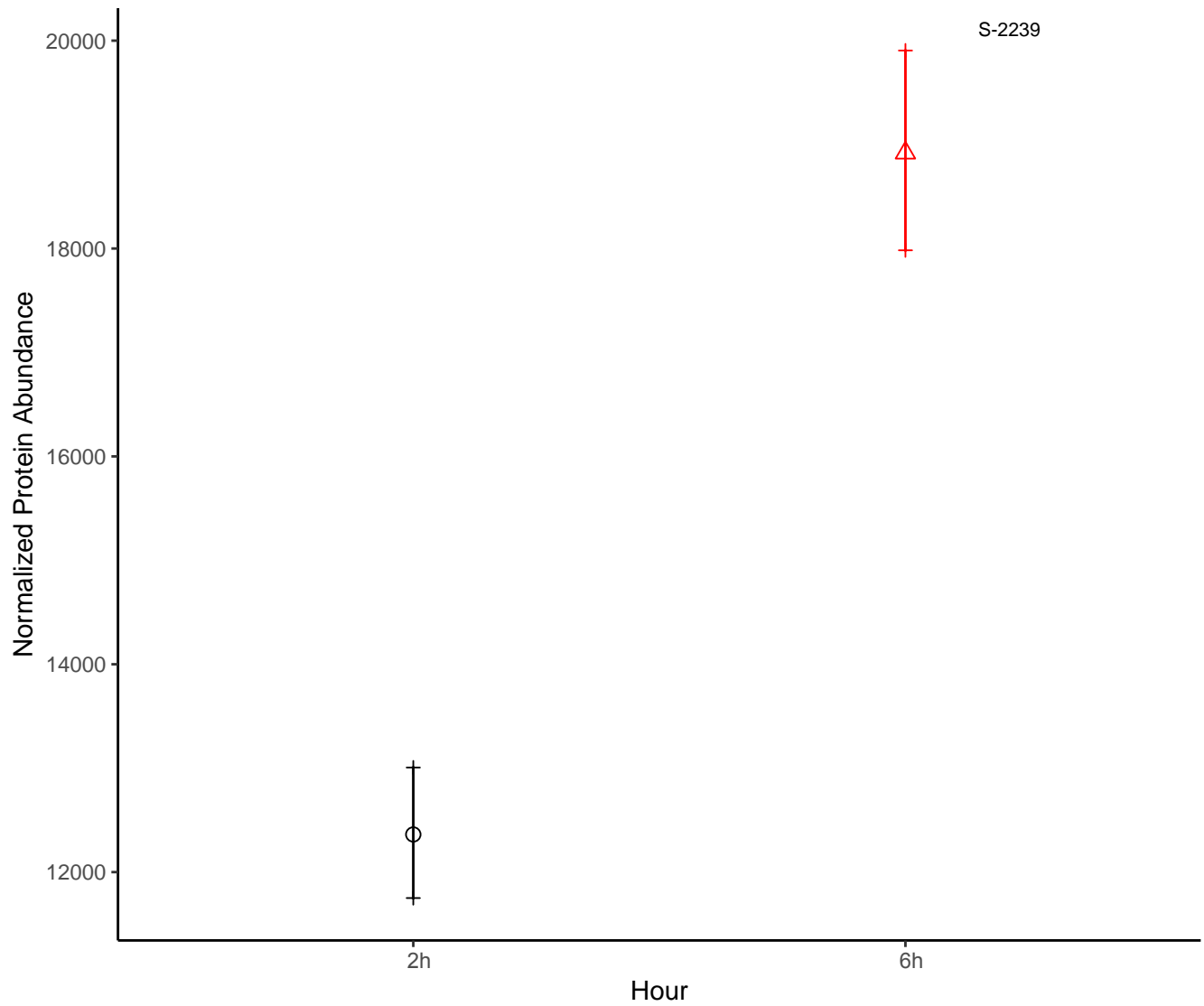
△ 6h

# NUSG\_STAAM

S-2238



# OAT2\_STAAM

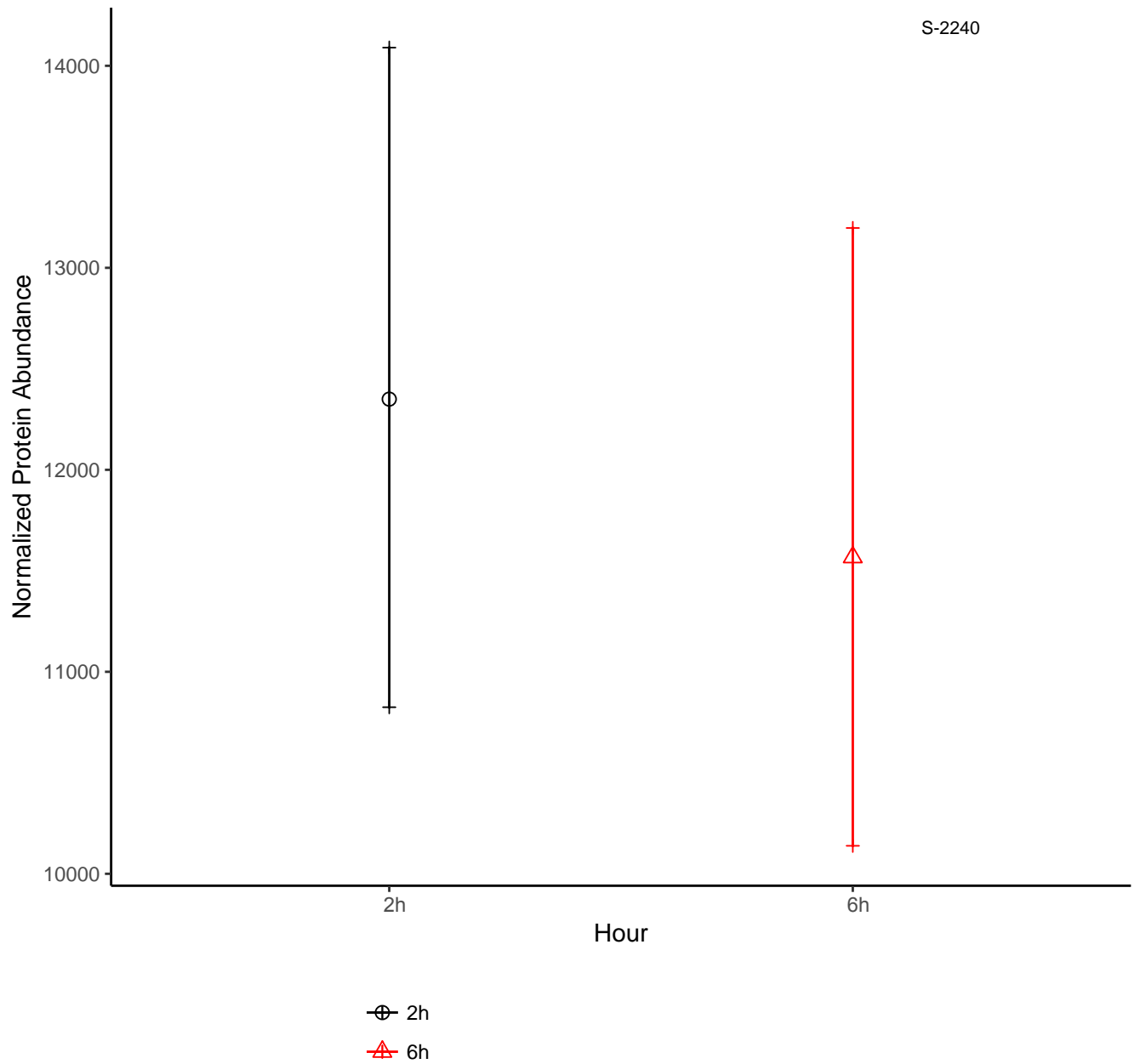


⊕ 2h

△ 6h

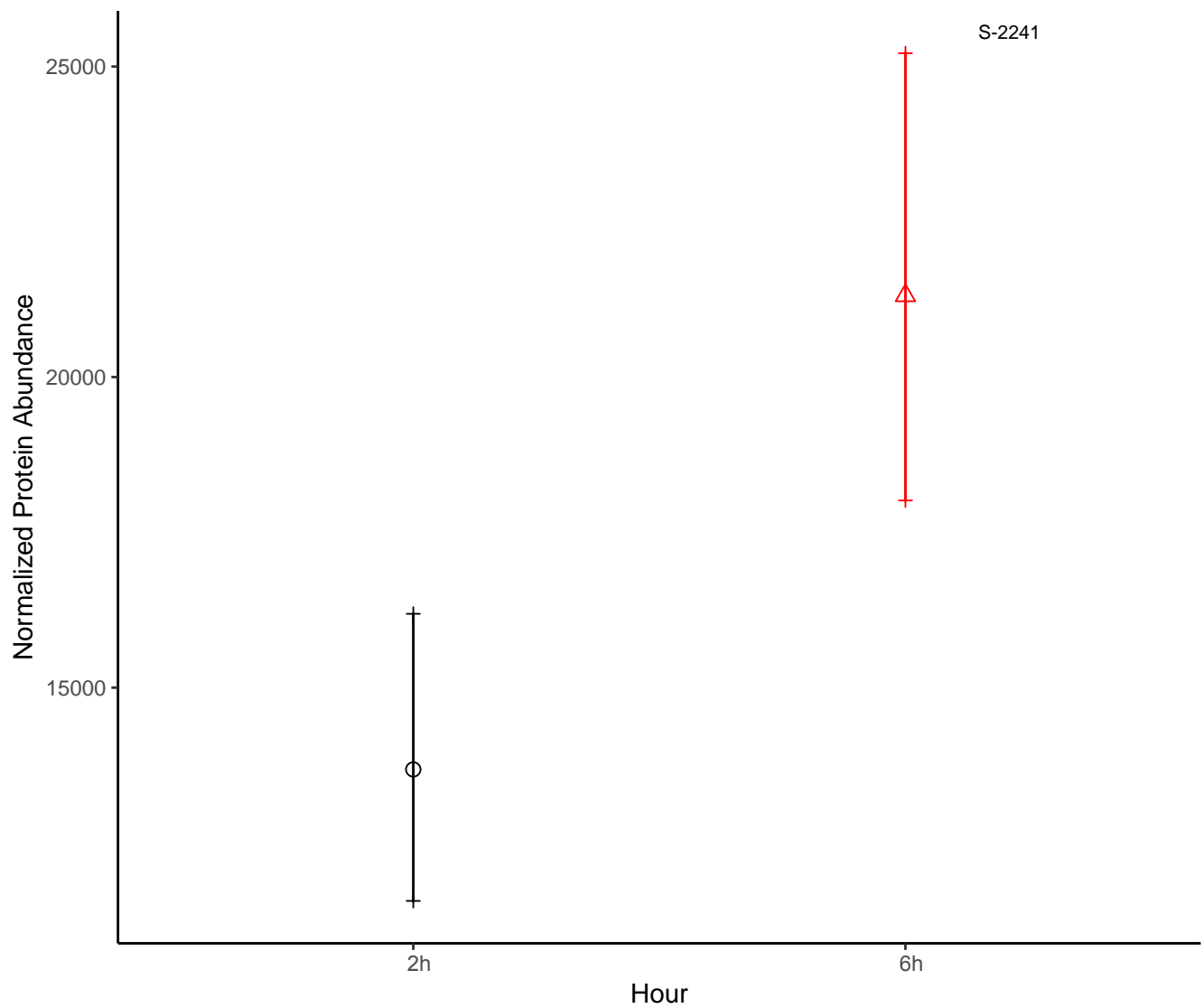
# OBG\_STAAM

S-2240





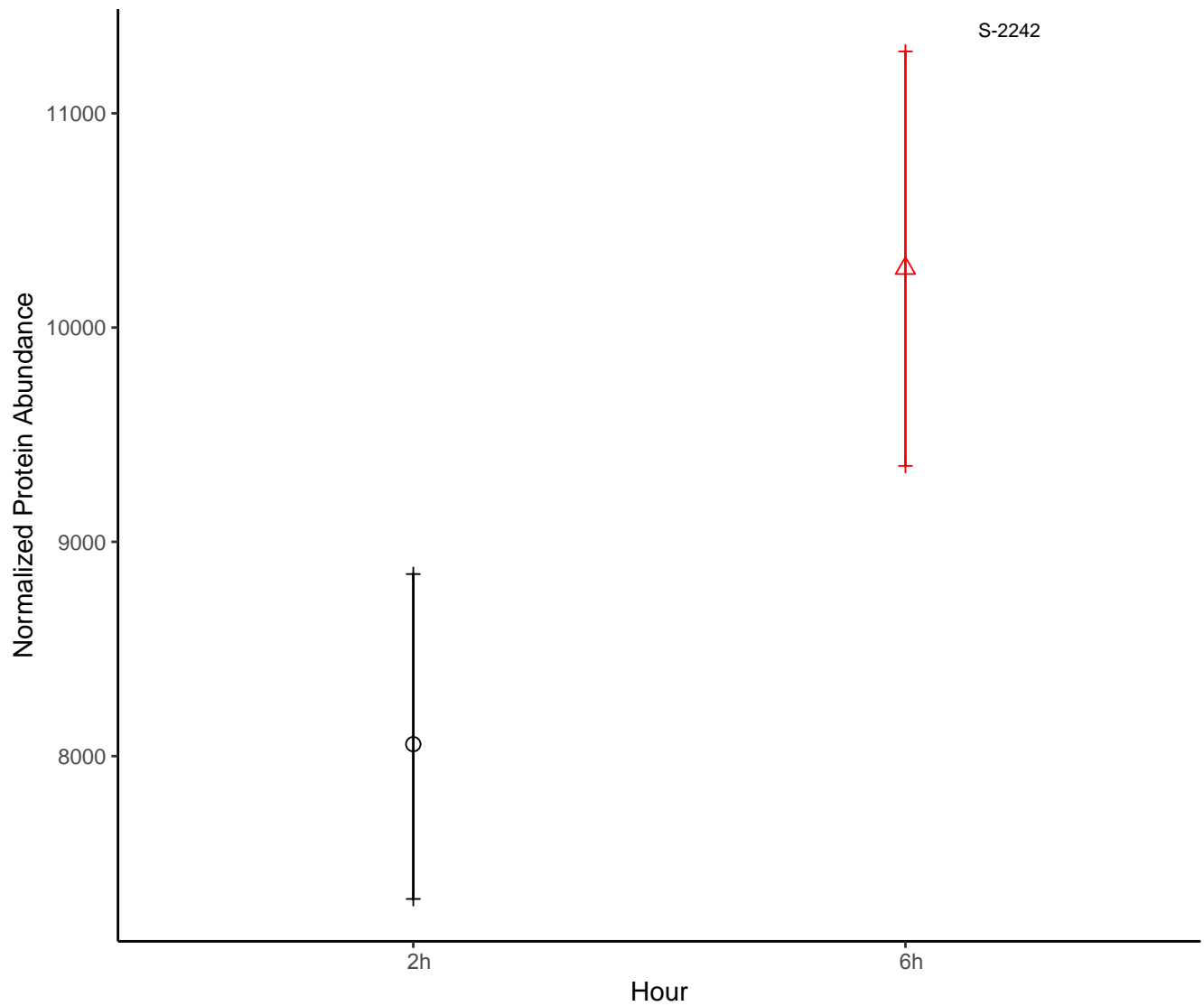
# ODO1\_STAAM



⊕ 2h

△ 6h

# ODO2\_STAAM

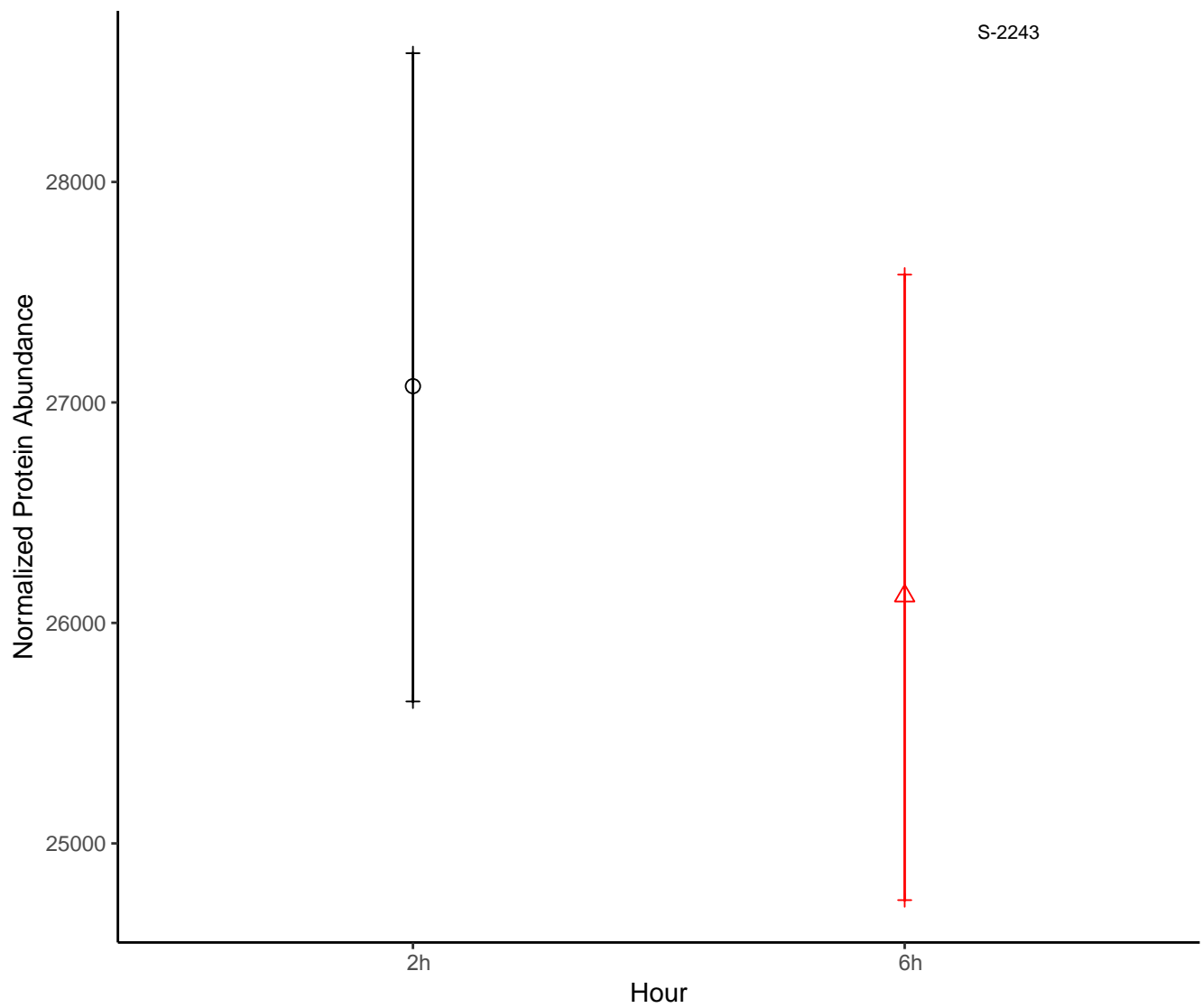


⊕ 2h

△ 6h

# ODP2\_STAAM

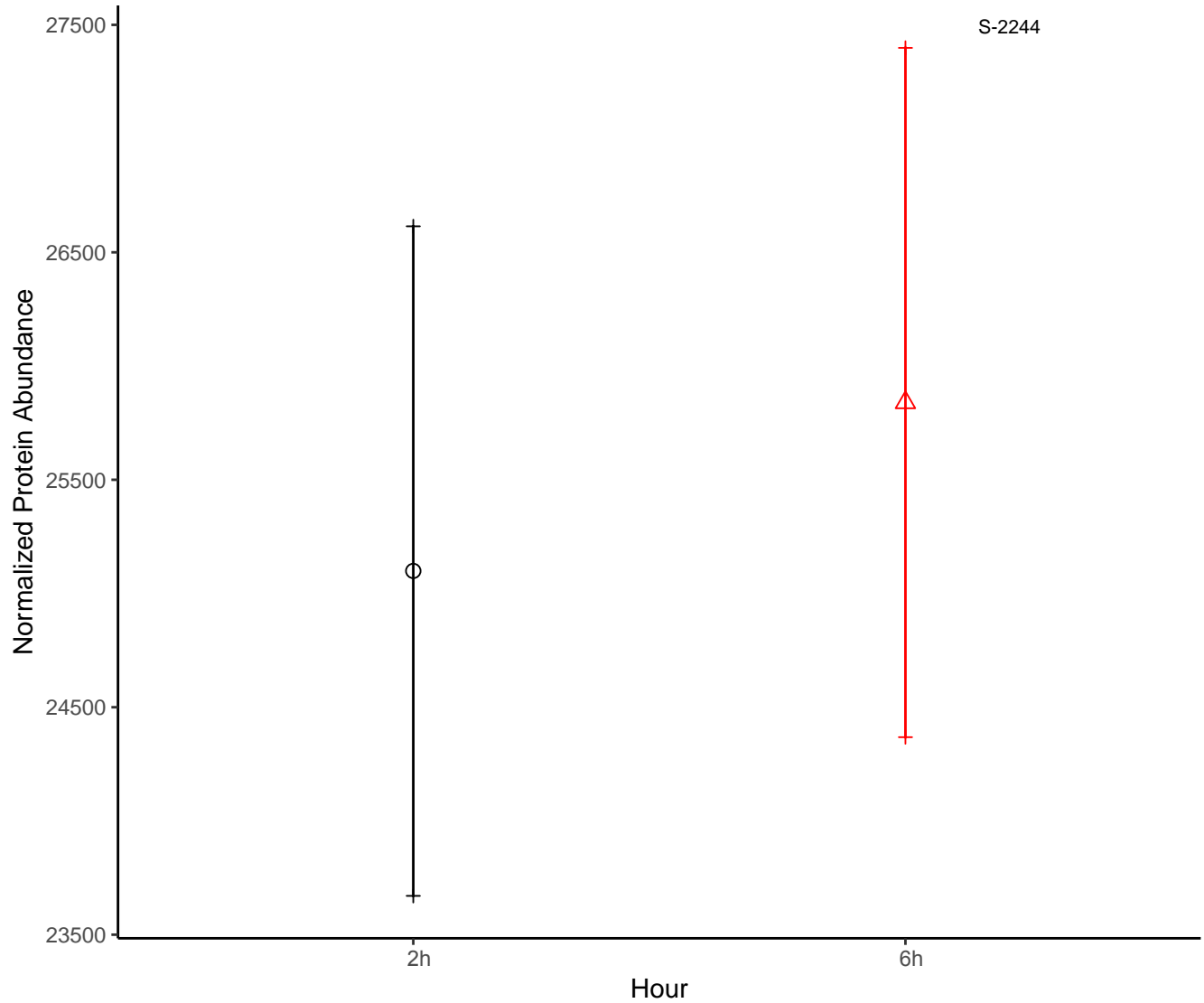
S-2243



⊕ 2h

△ 6h

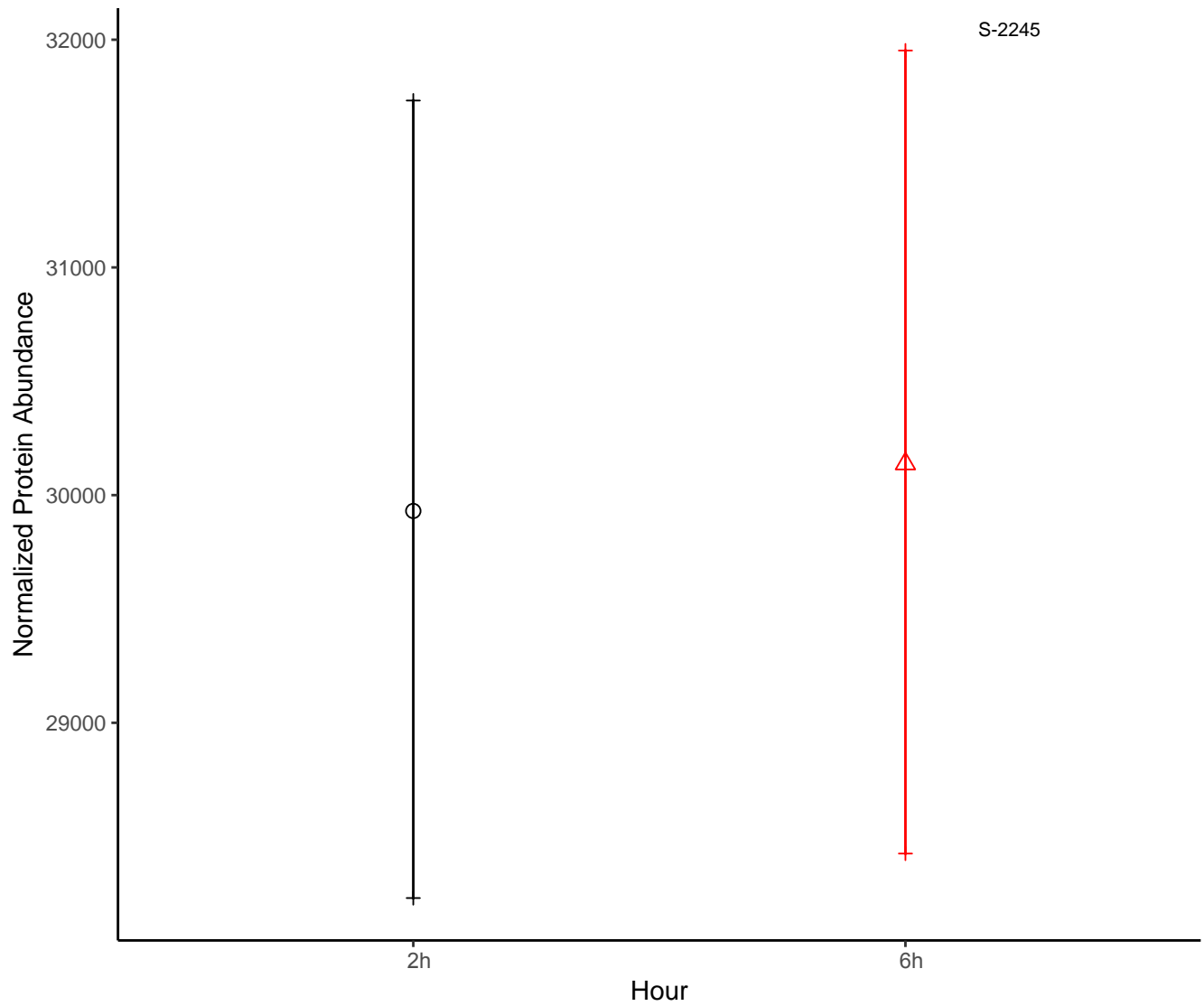
# ODPA\_STAAM



⊕ 2h

△ 6h

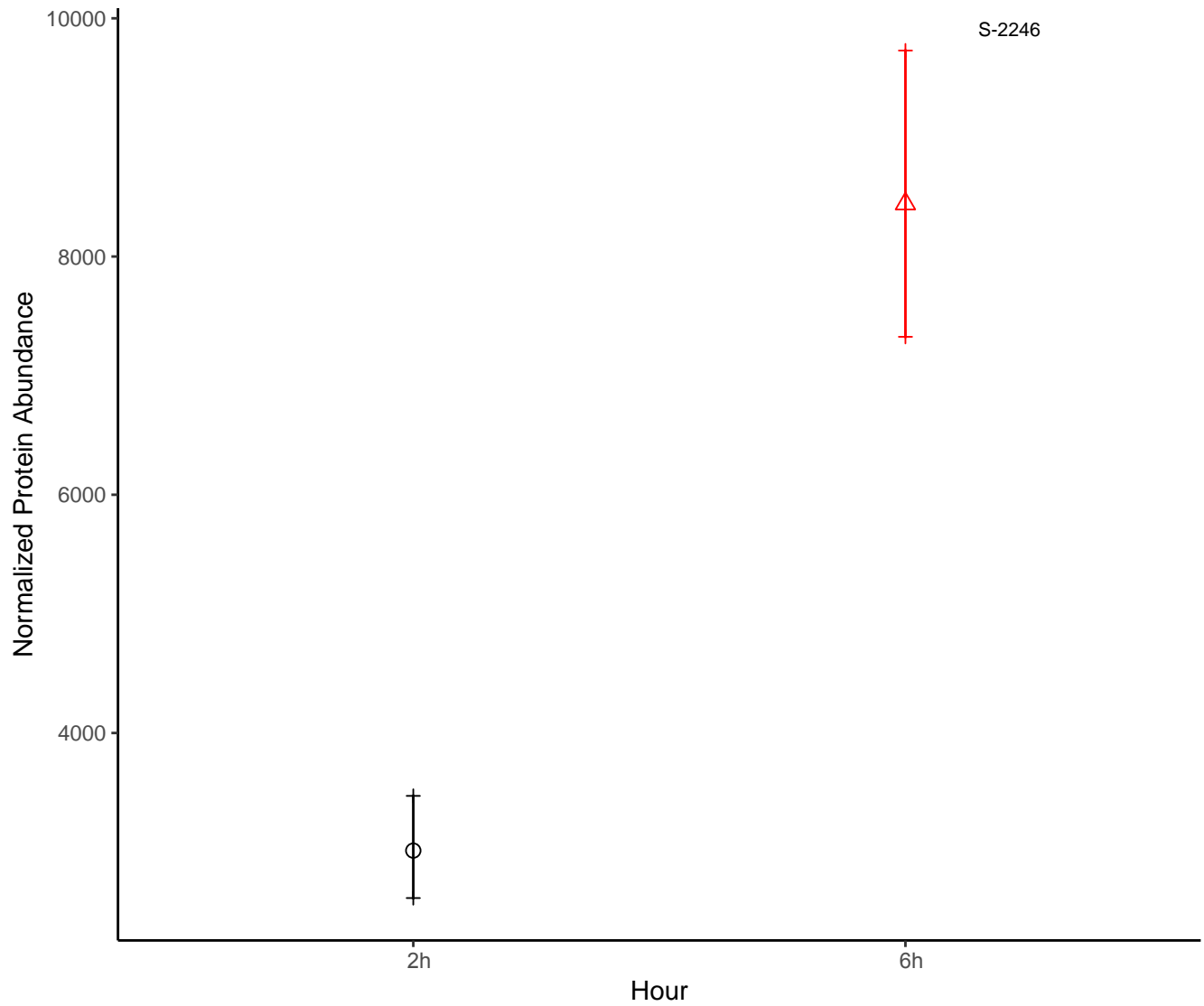
# ODPB\_STAAM



⊕ 2h

△ 6h

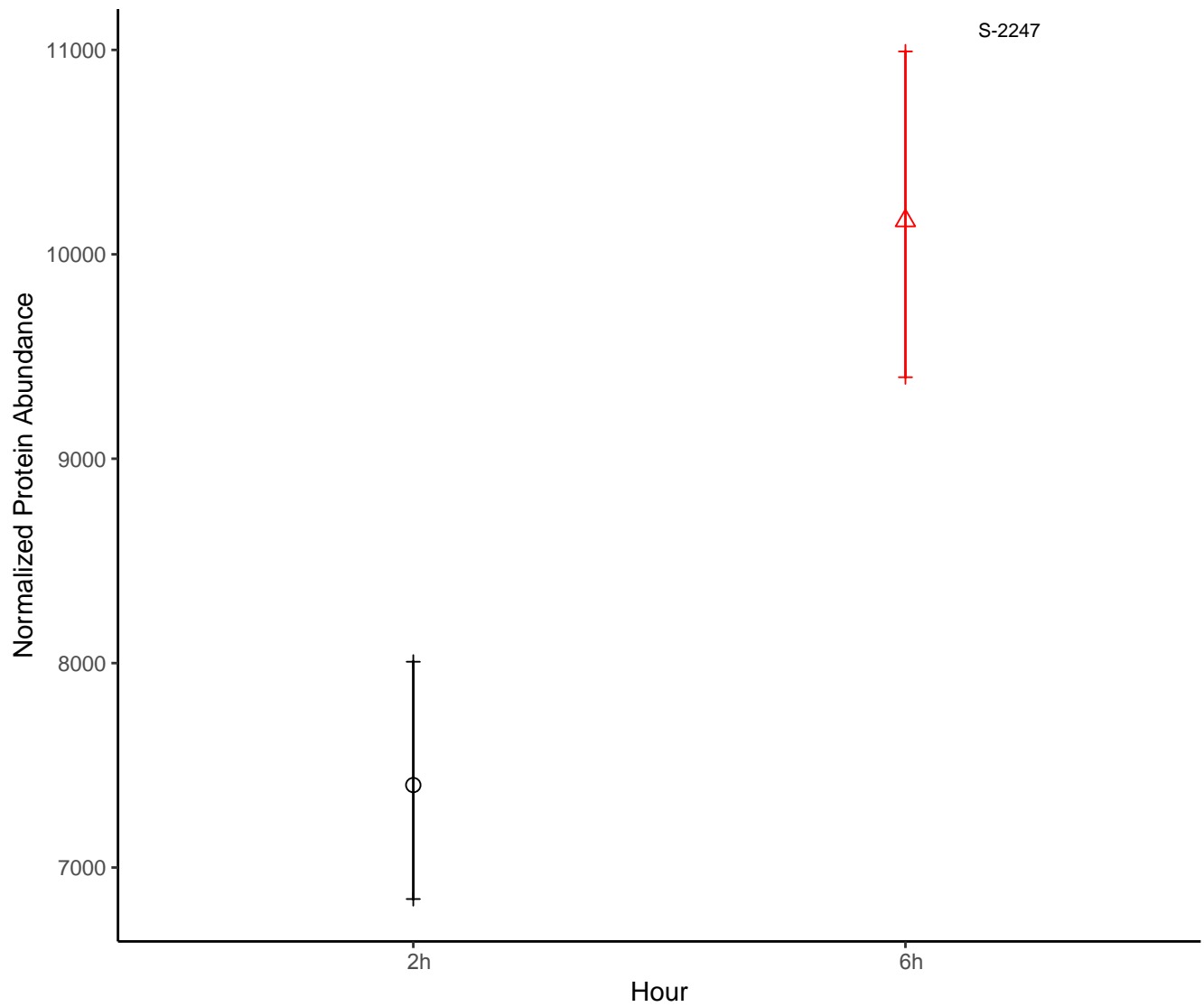
# OHRL\_STAAM



⊕ 2h

△ 6h

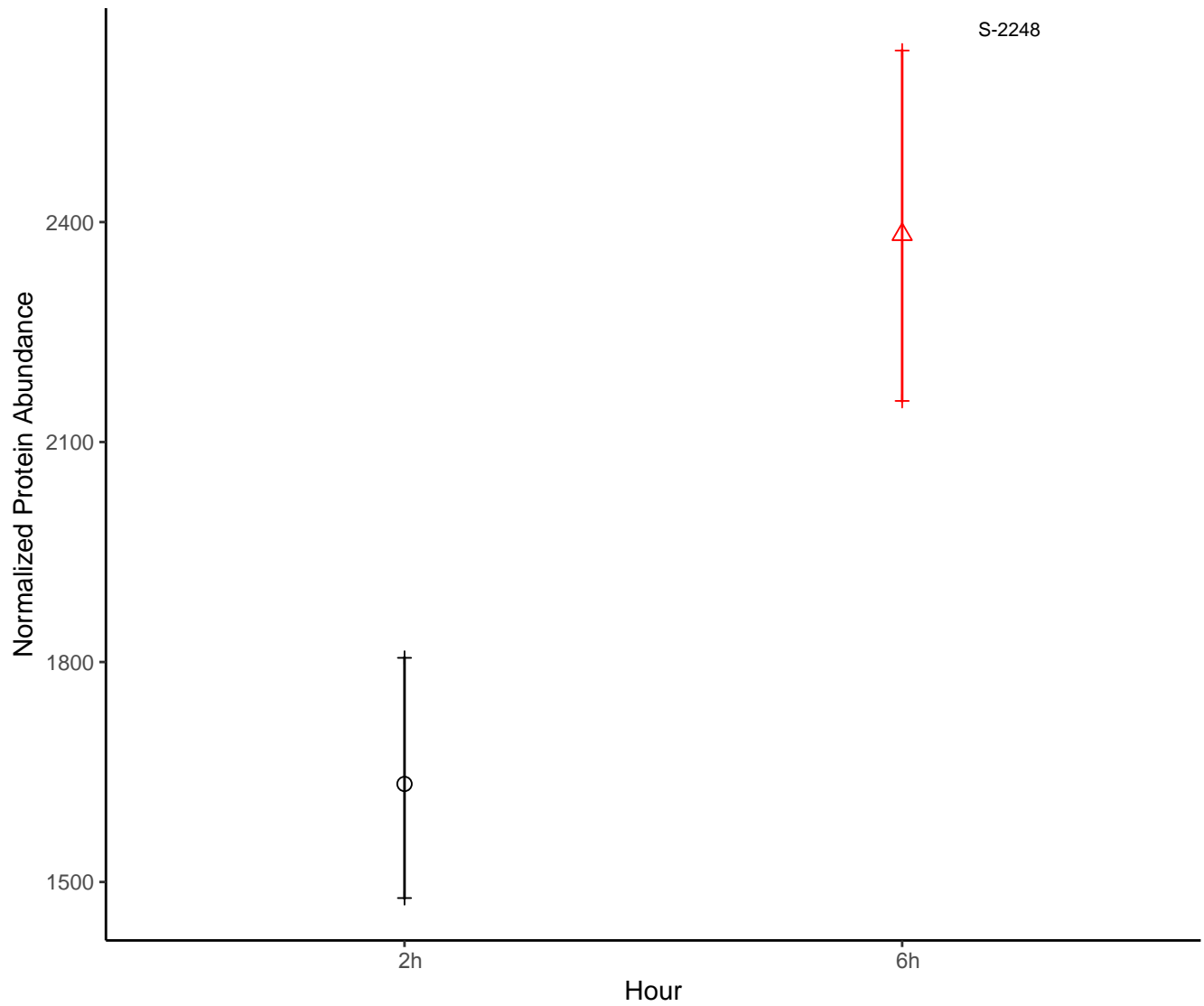
# OTC\_STAAM



⊕ 2h

△ 6h

# OTCC\_STAAM

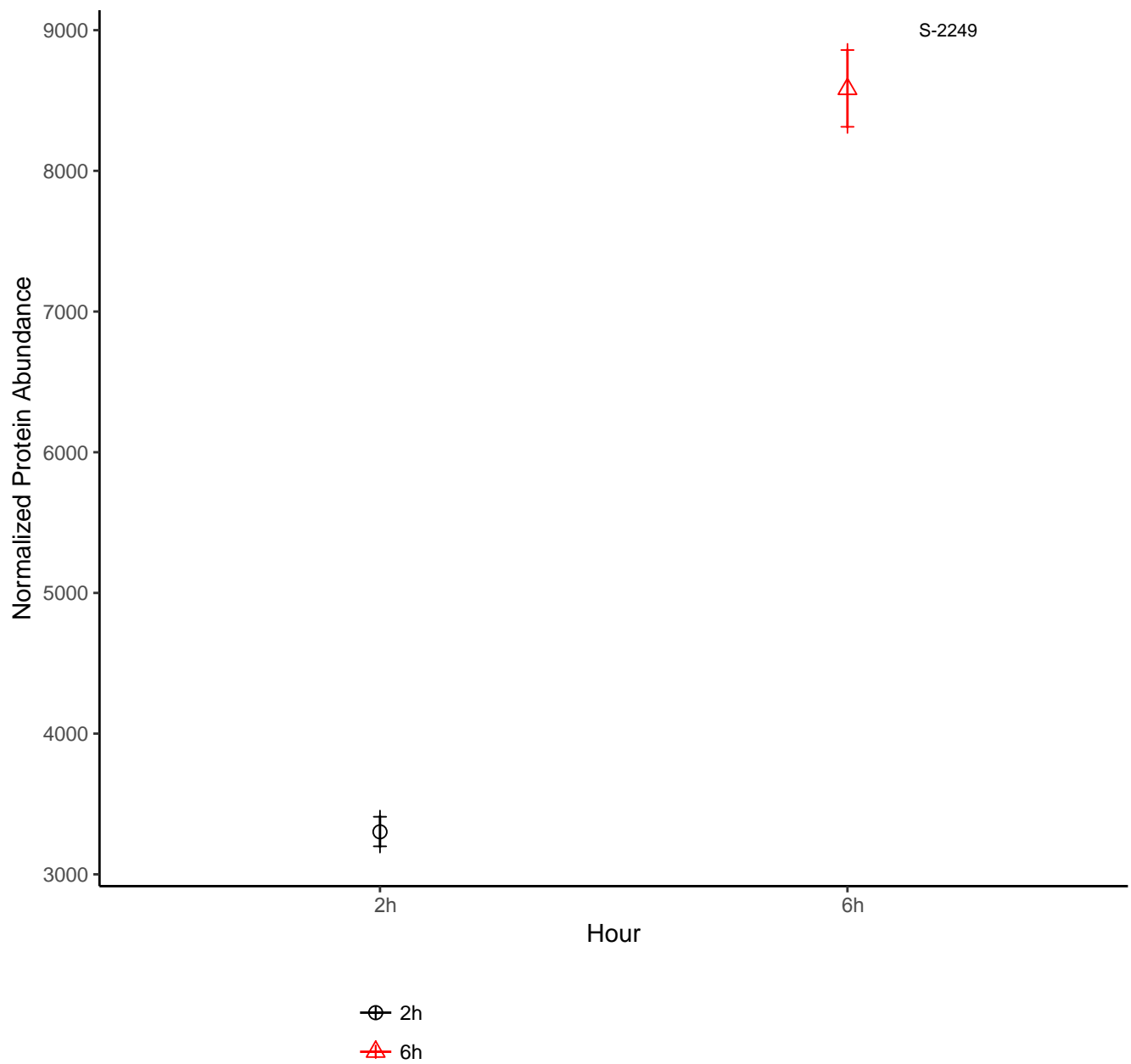


⊕ 2h

△ 6h

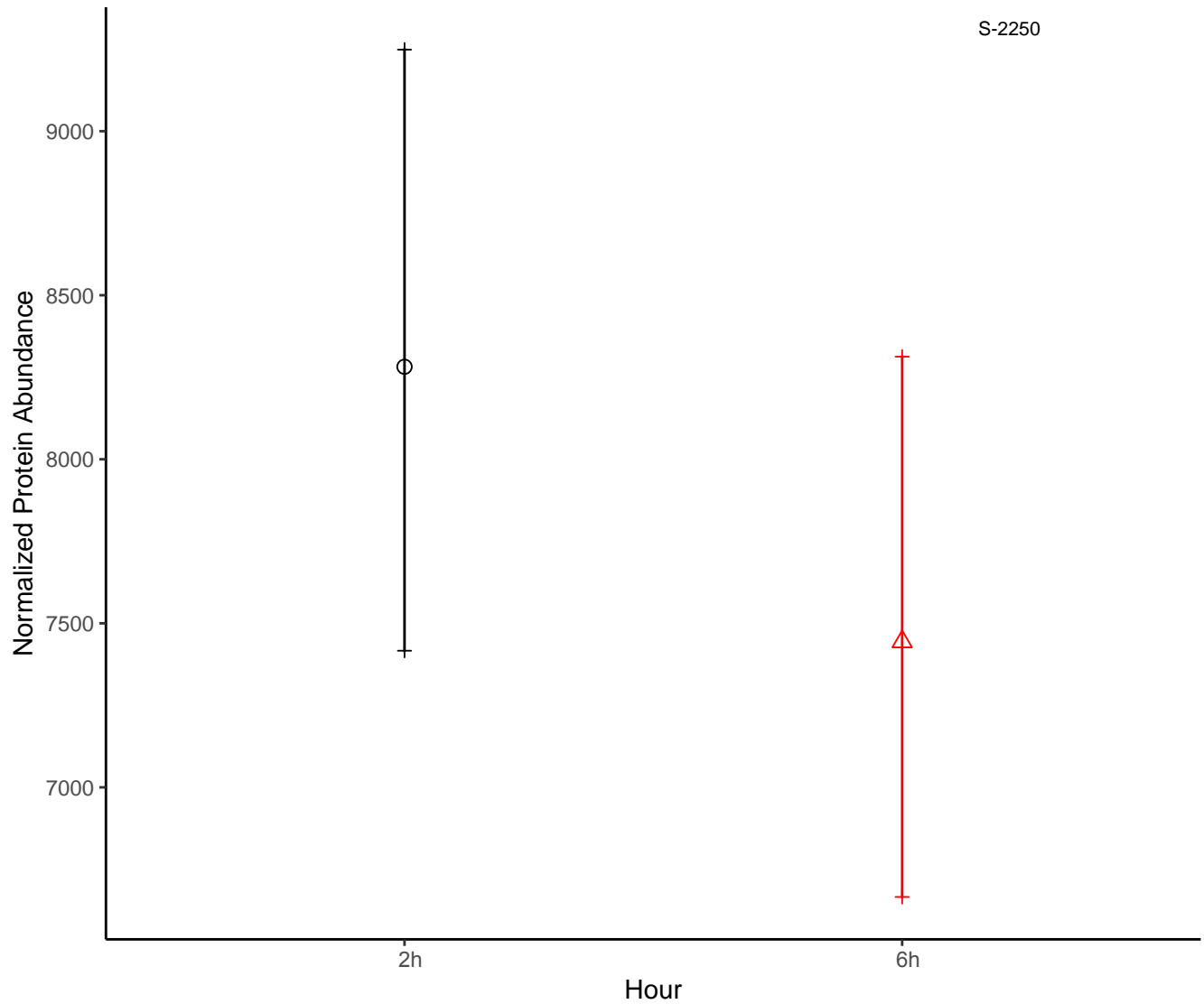


# P5CR\_STAAM



# PANB\_STAAM

S-2250

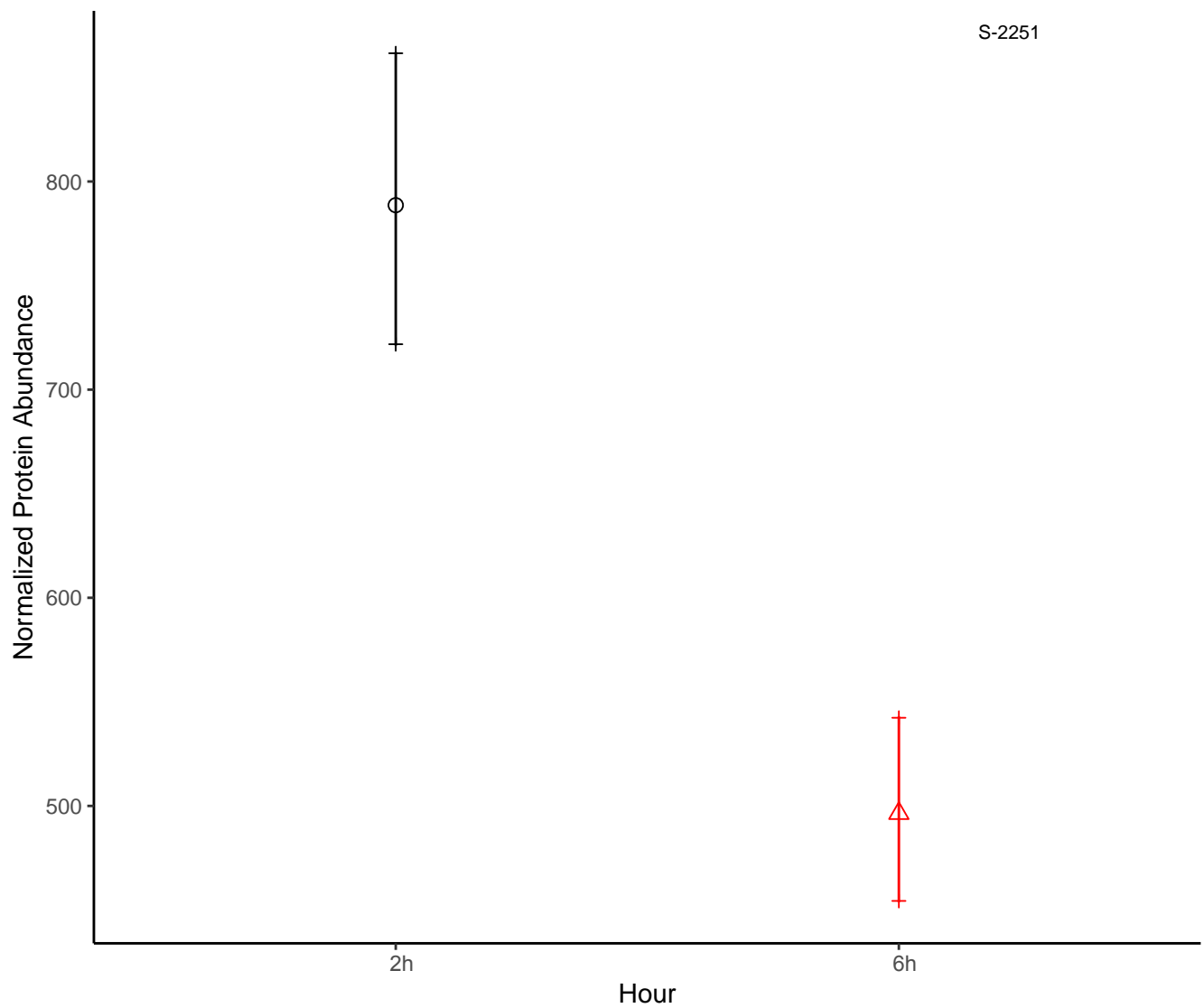


⊕ 2h

△ 6h

# PAND\_STAAM

S-2251

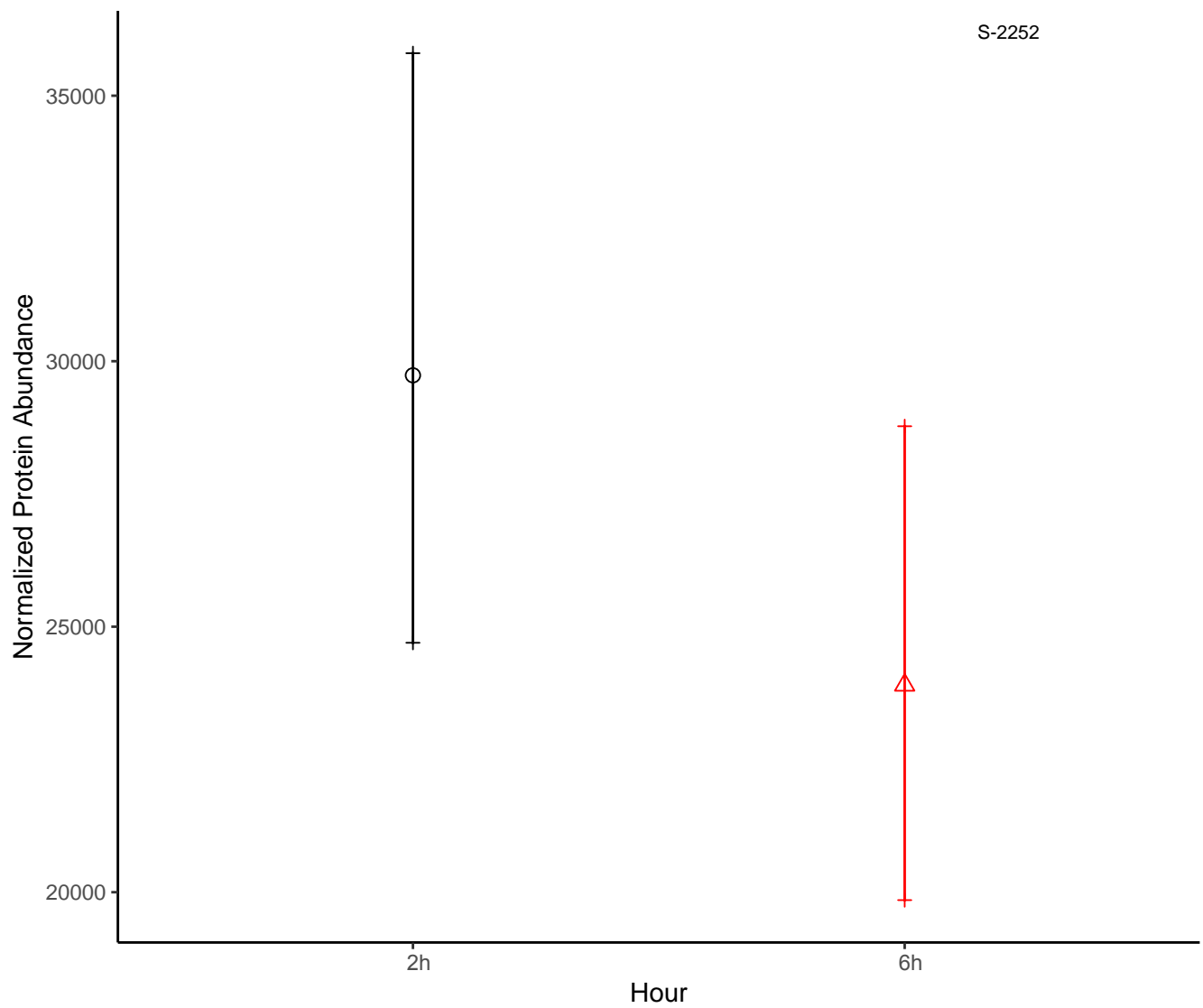


⊕ 2h

△ 6h

# PARC\_STAAM

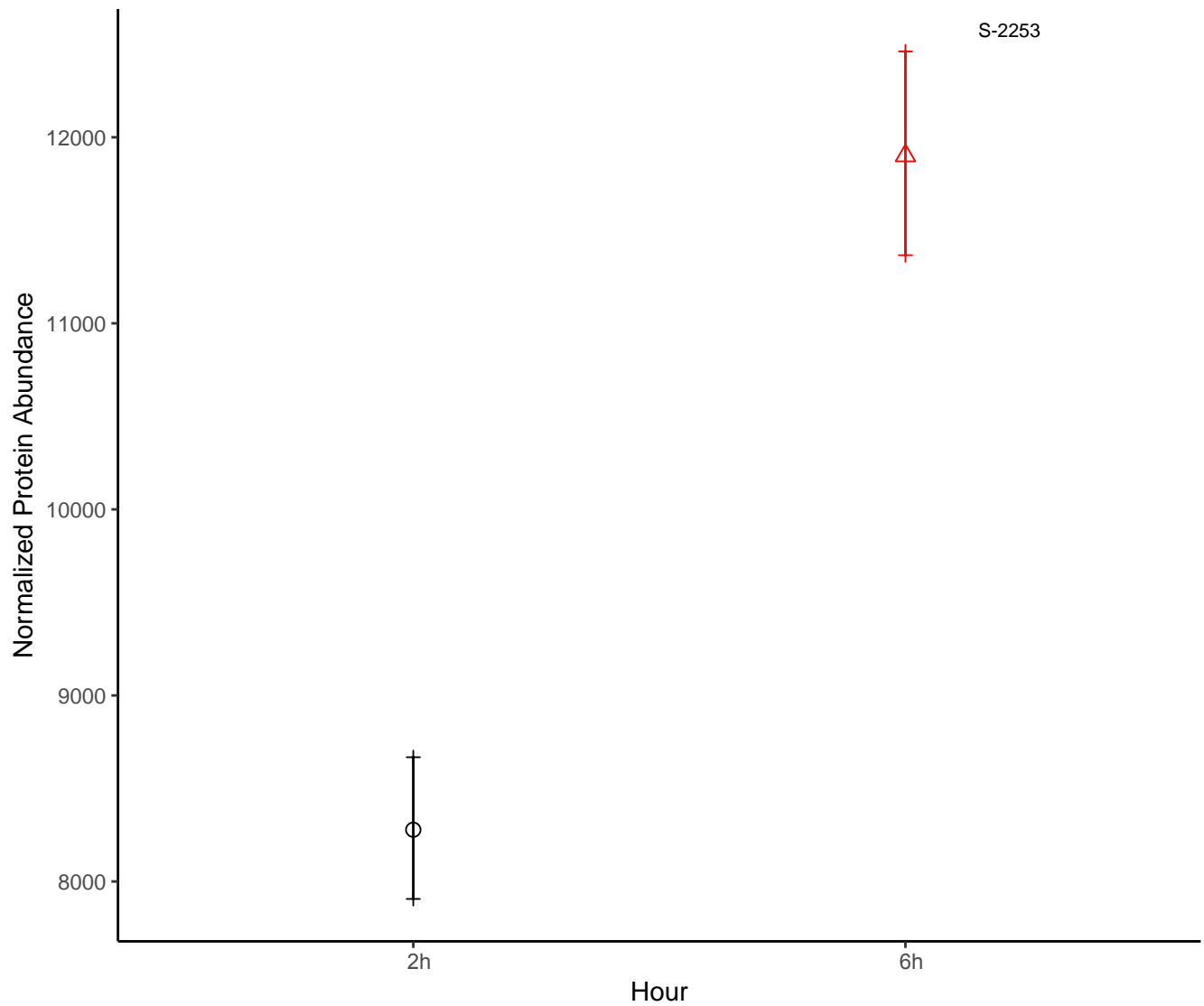
S-2252



⊕ 2h

△ 6h

# PCKA\_STAAM

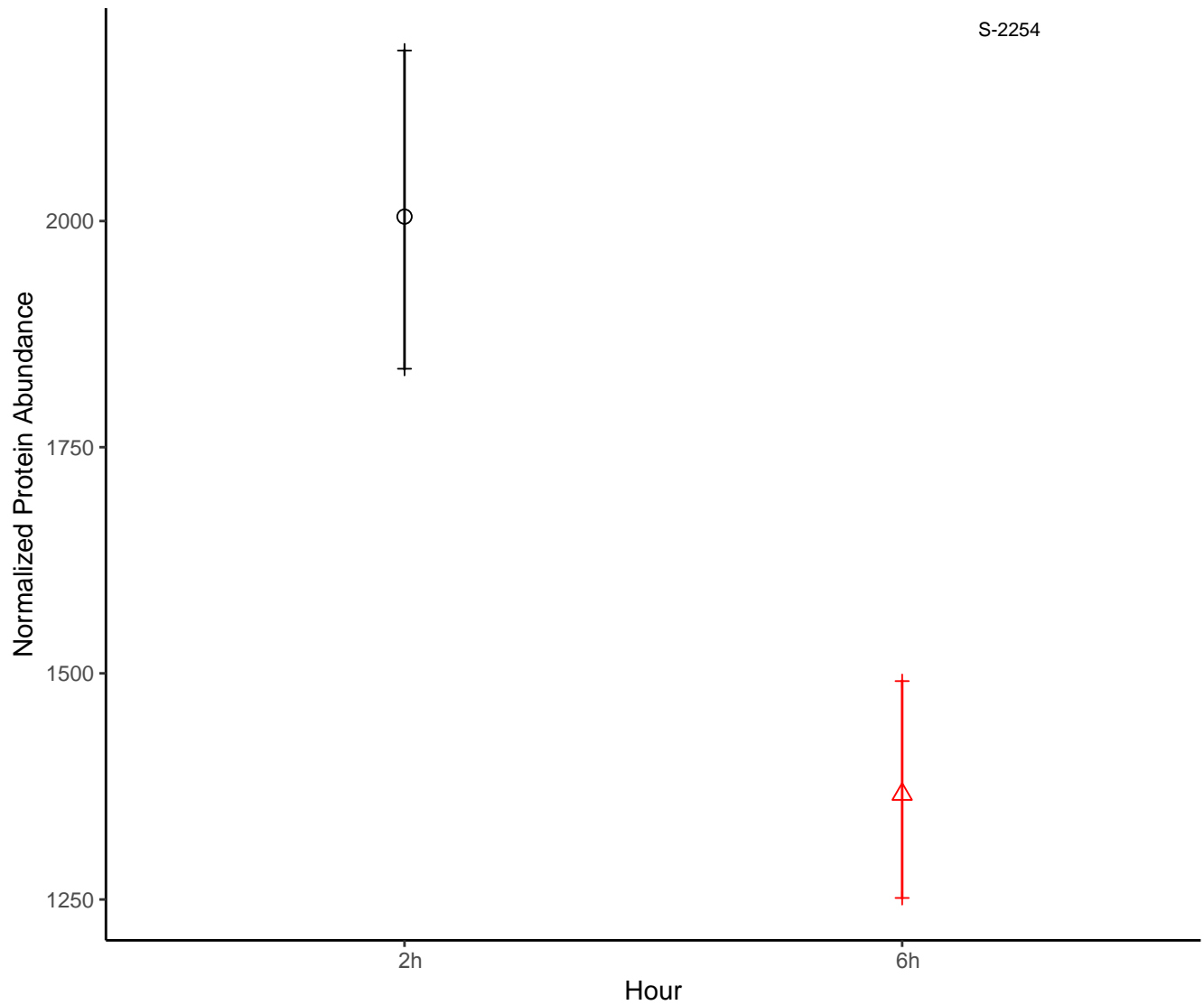


⊕ 2h

△ 6h

# PCRA\_STAAM

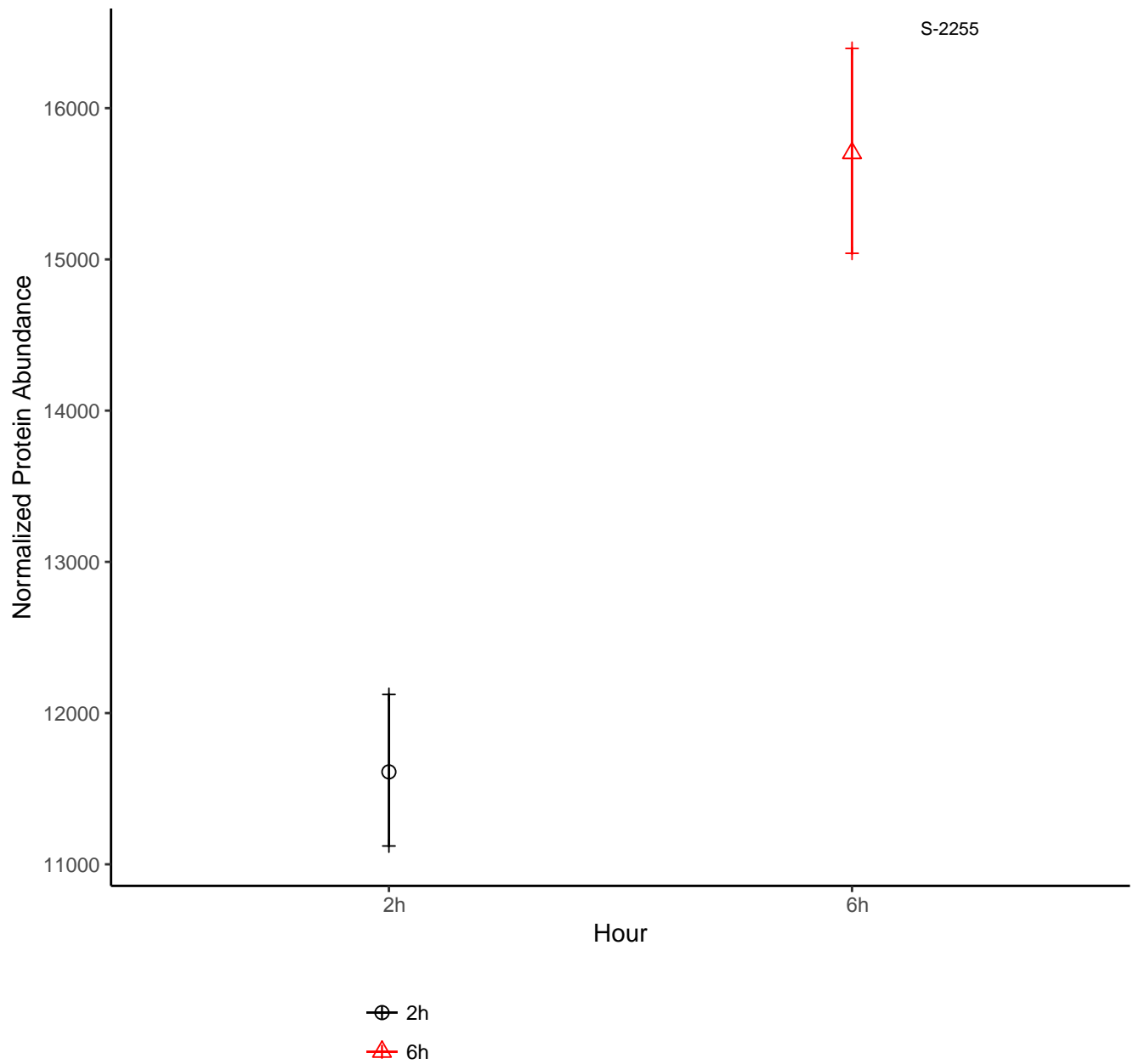
S-2254



⊕ 2h

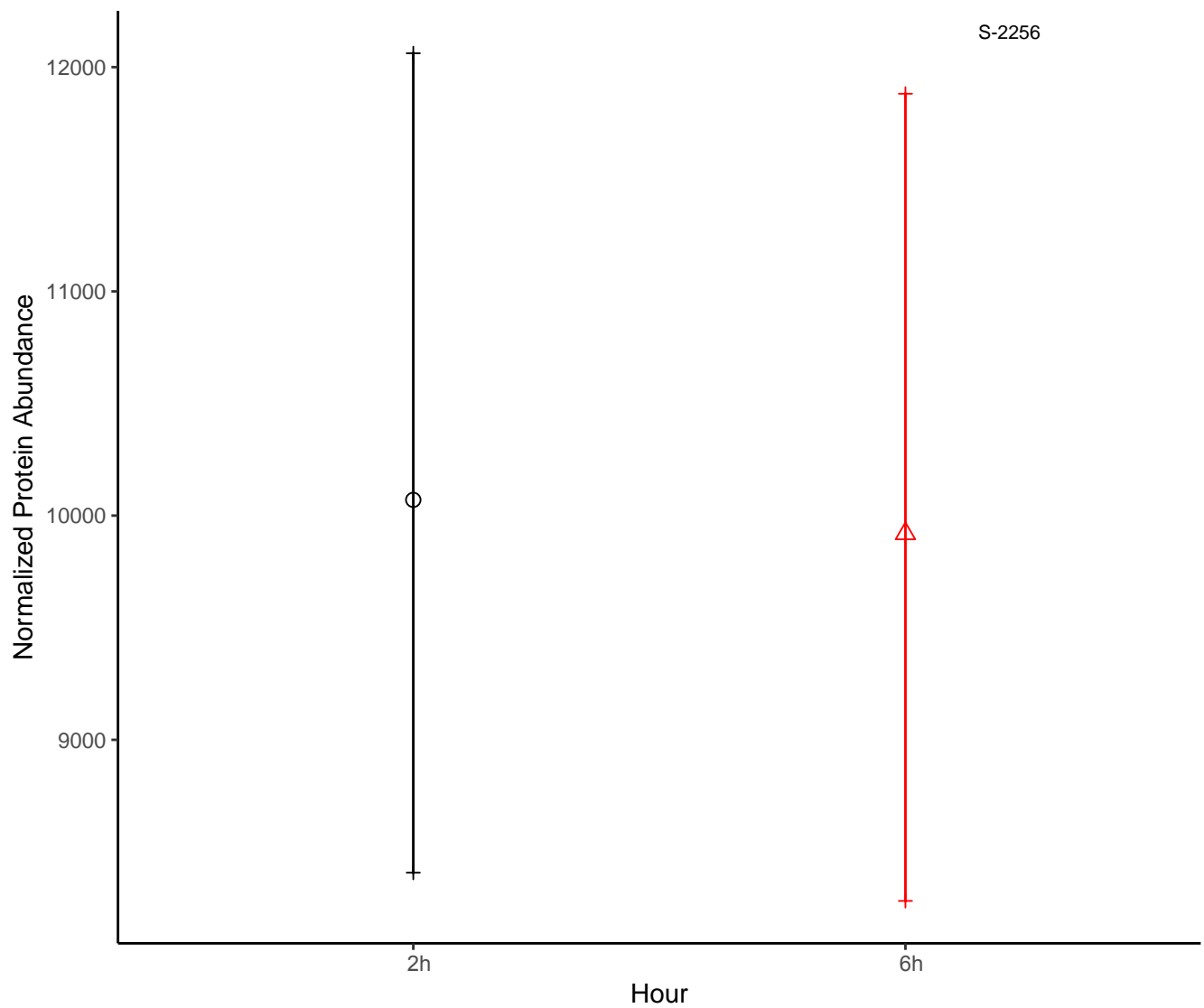
△ 6h

# PDP\_STAAM



# PDRP\_STAAM

S-2256

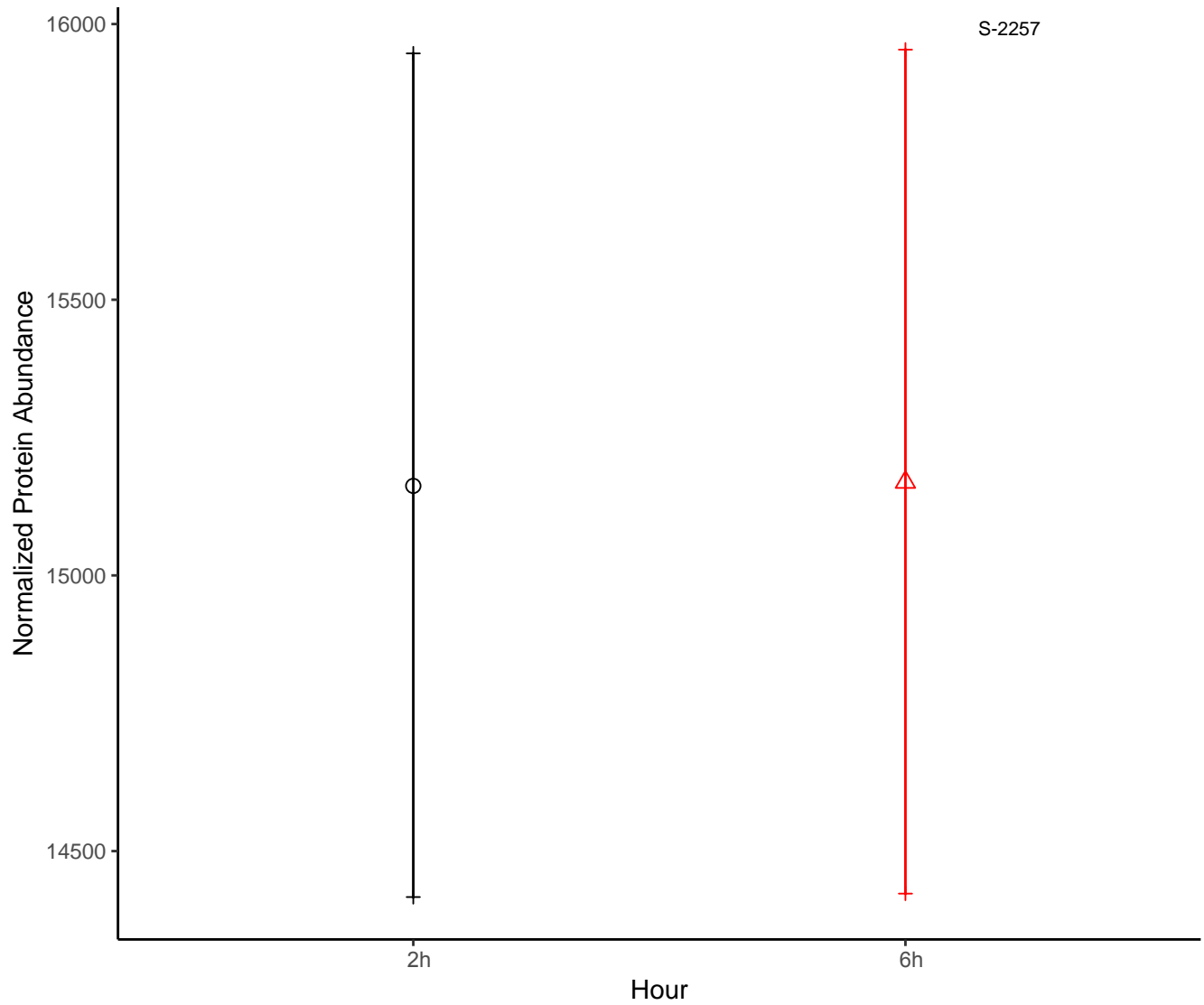


⊕ 2h

△ 6h



# PDXS\_STAAM

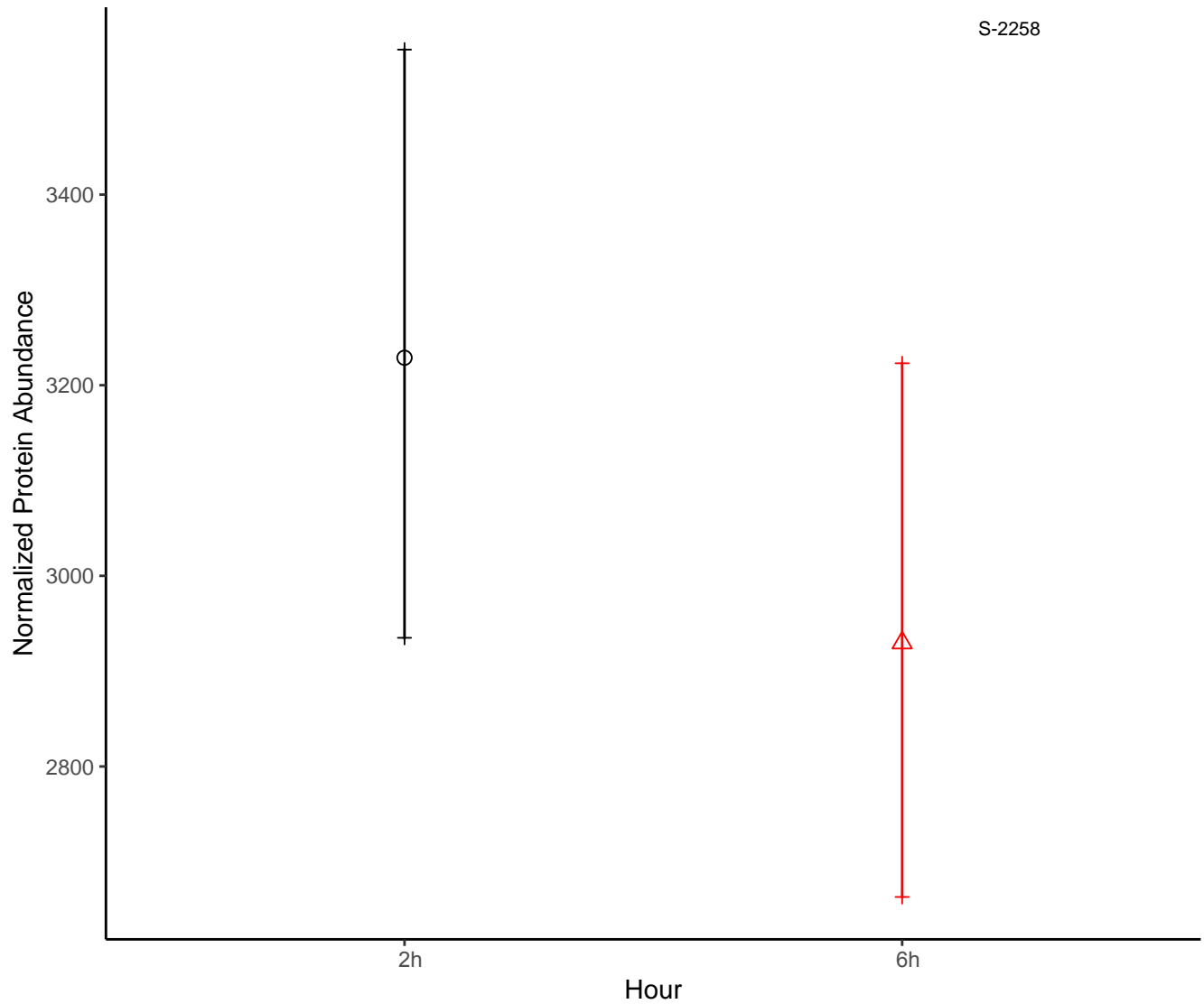


⊕ 2h

△ 6h

# PDXT\_STAAM

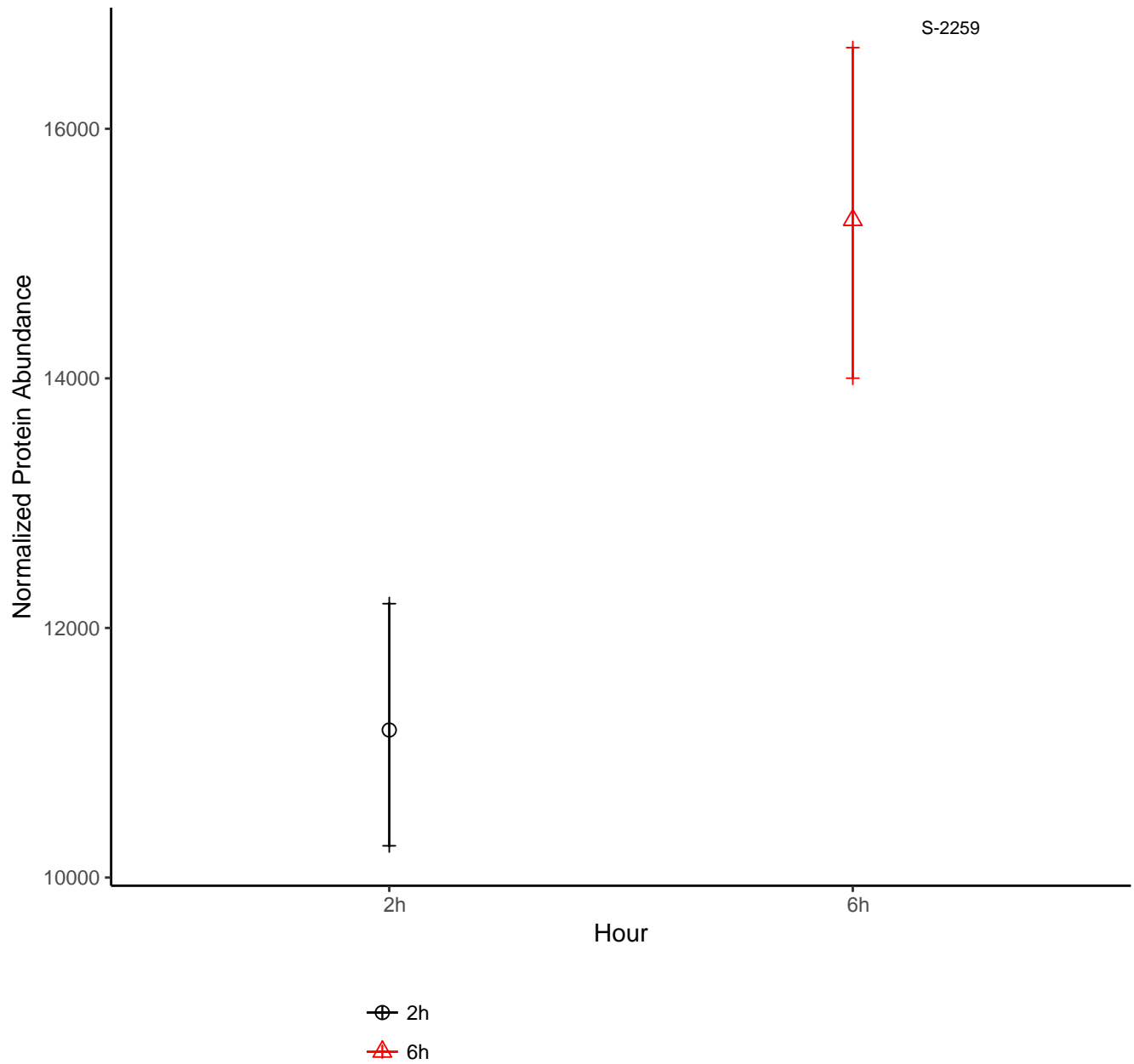
S-2258



⊕ 2h

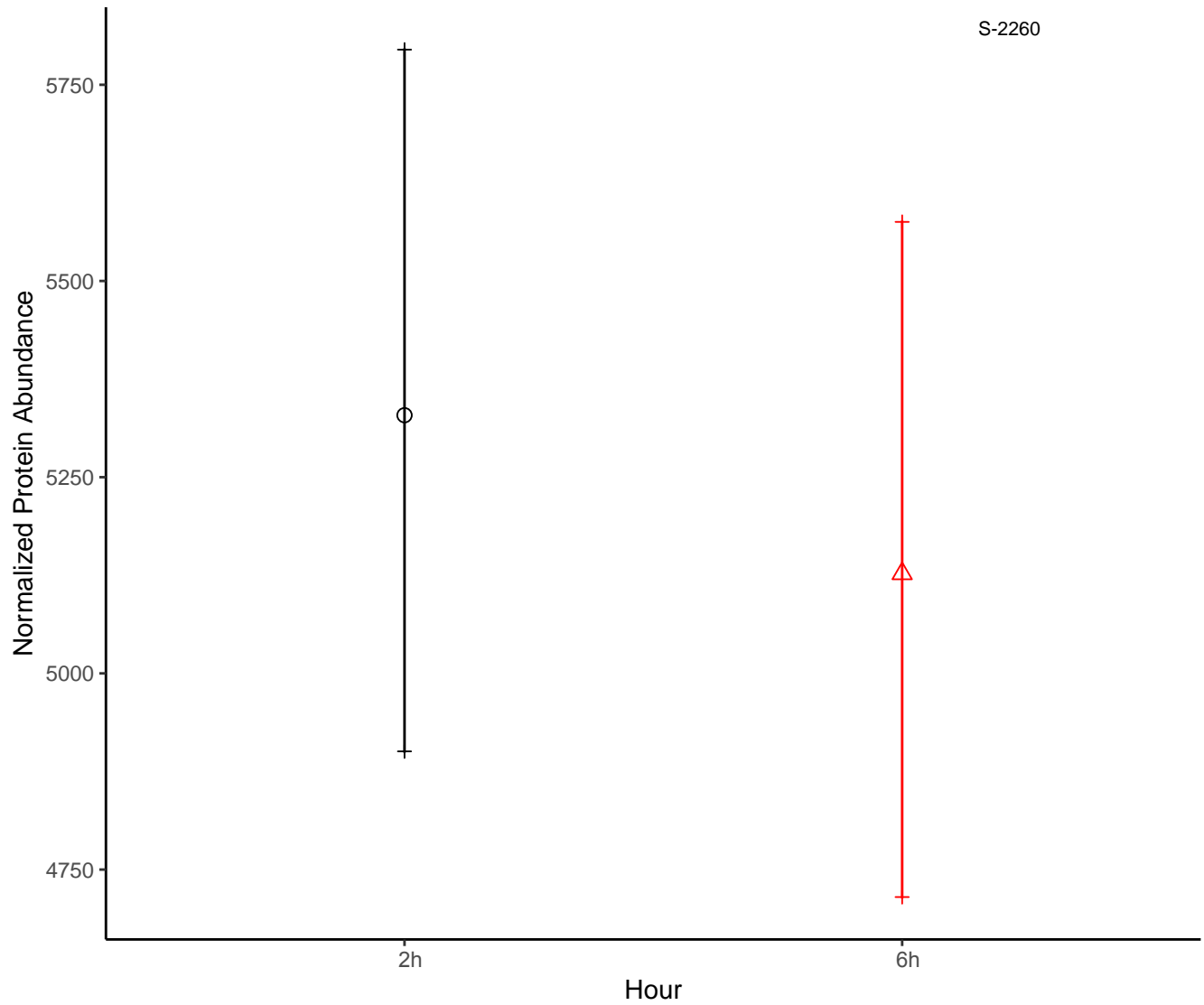
△ 6h

# PEPVL\_STAAM



# PERR\_STAAM

S-2260

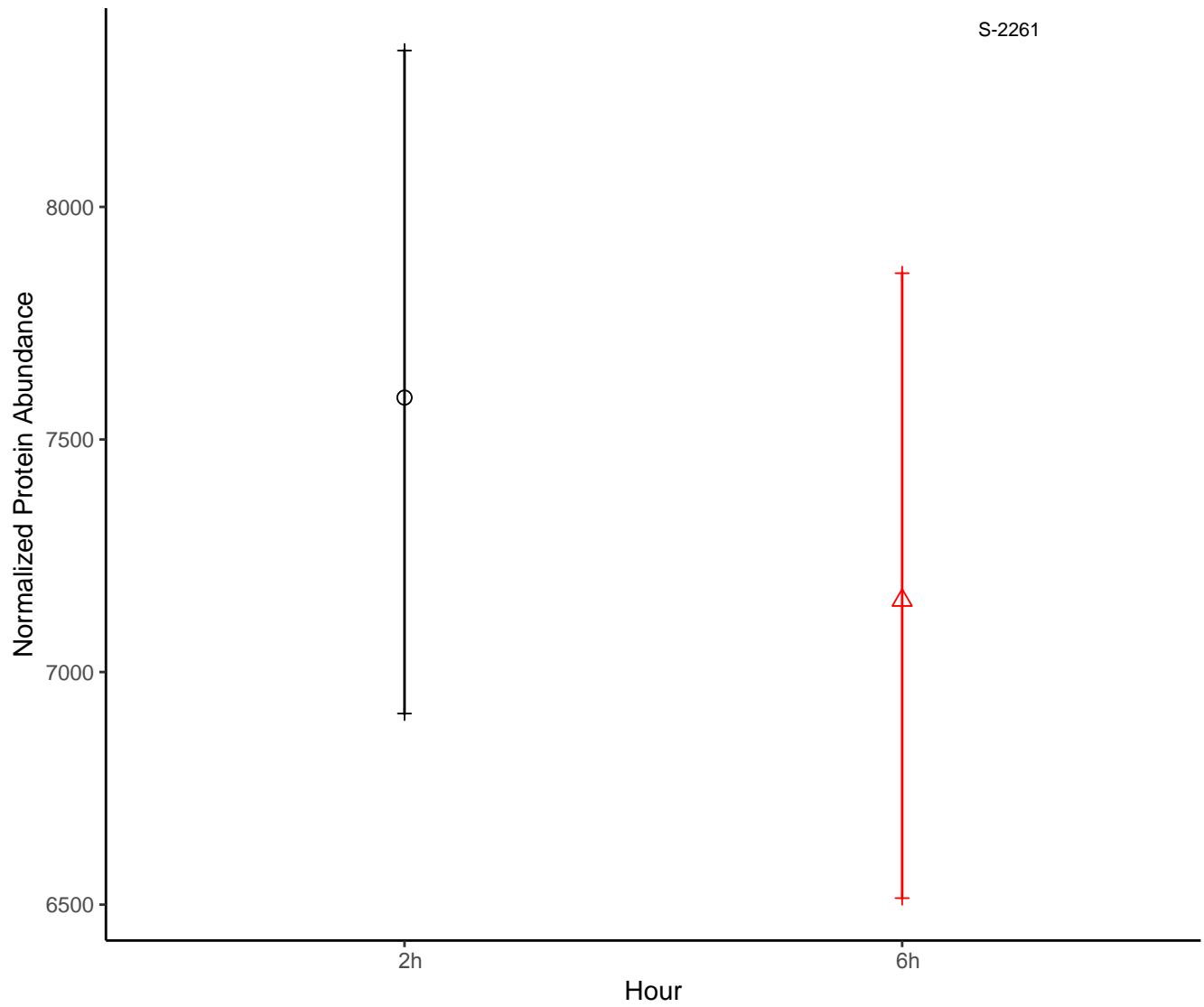


⊕ 2h

△ 6h

# PFKA\_STAAM

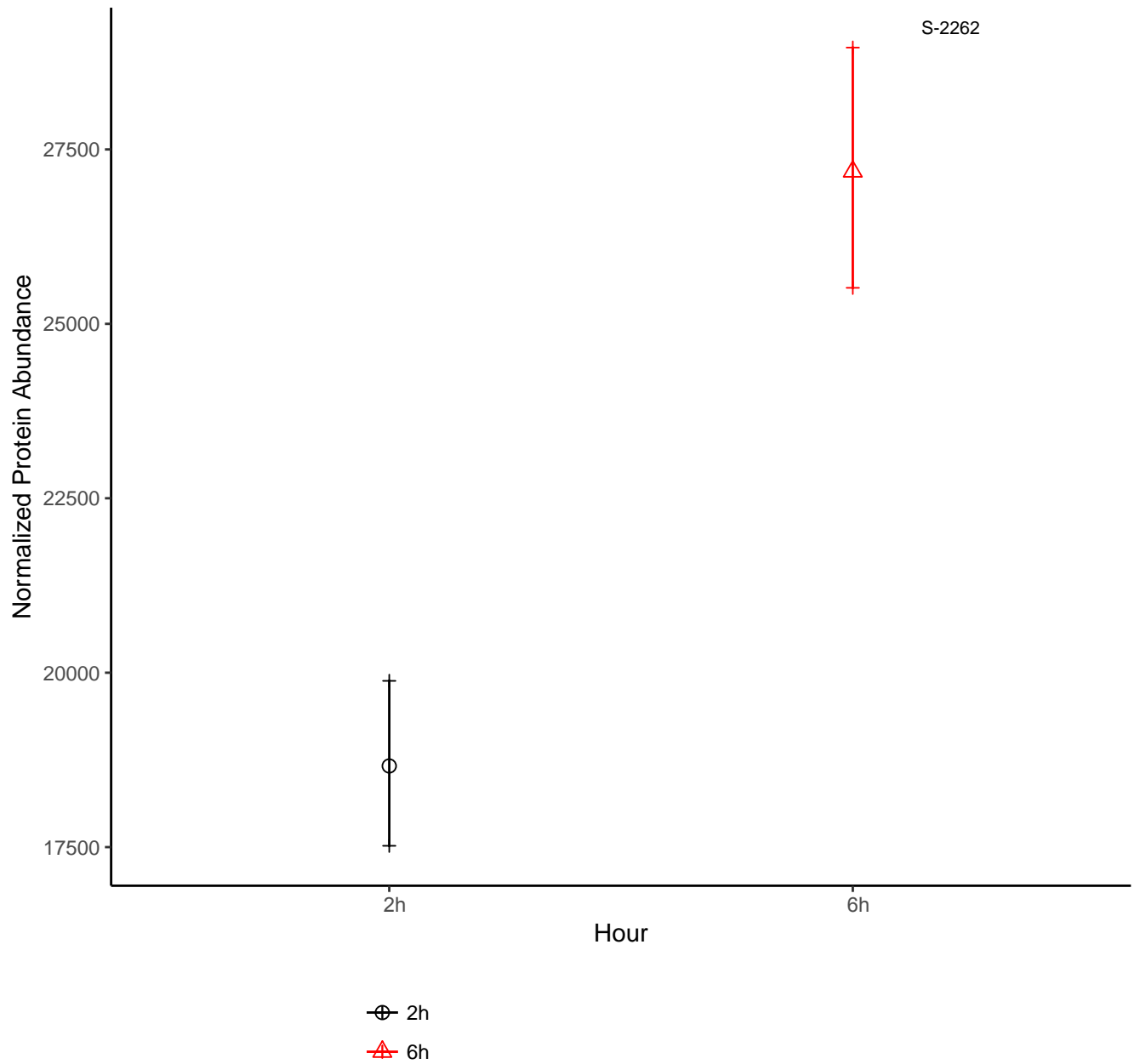
S-2261



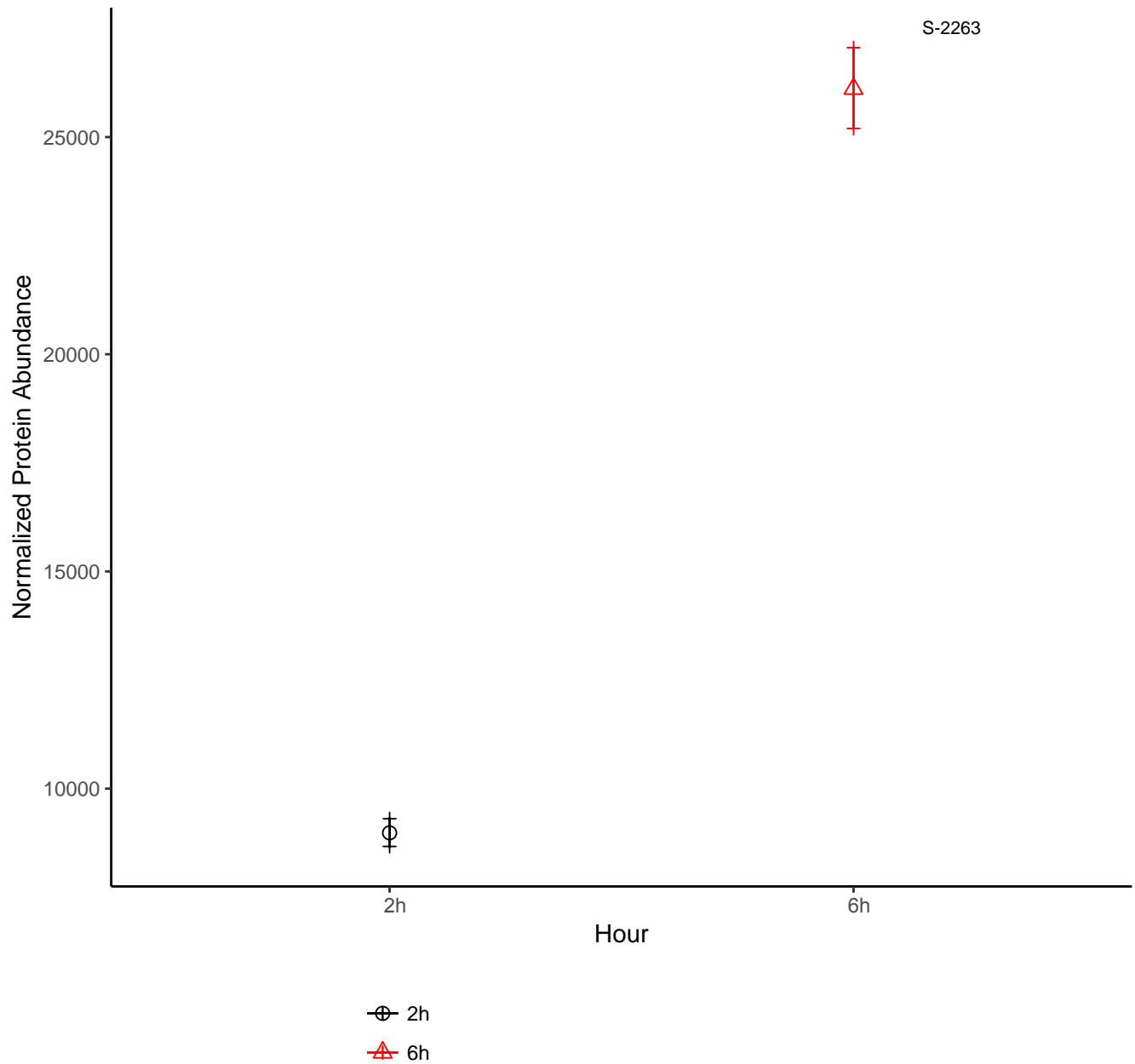
⊕ 2h

△ 6h

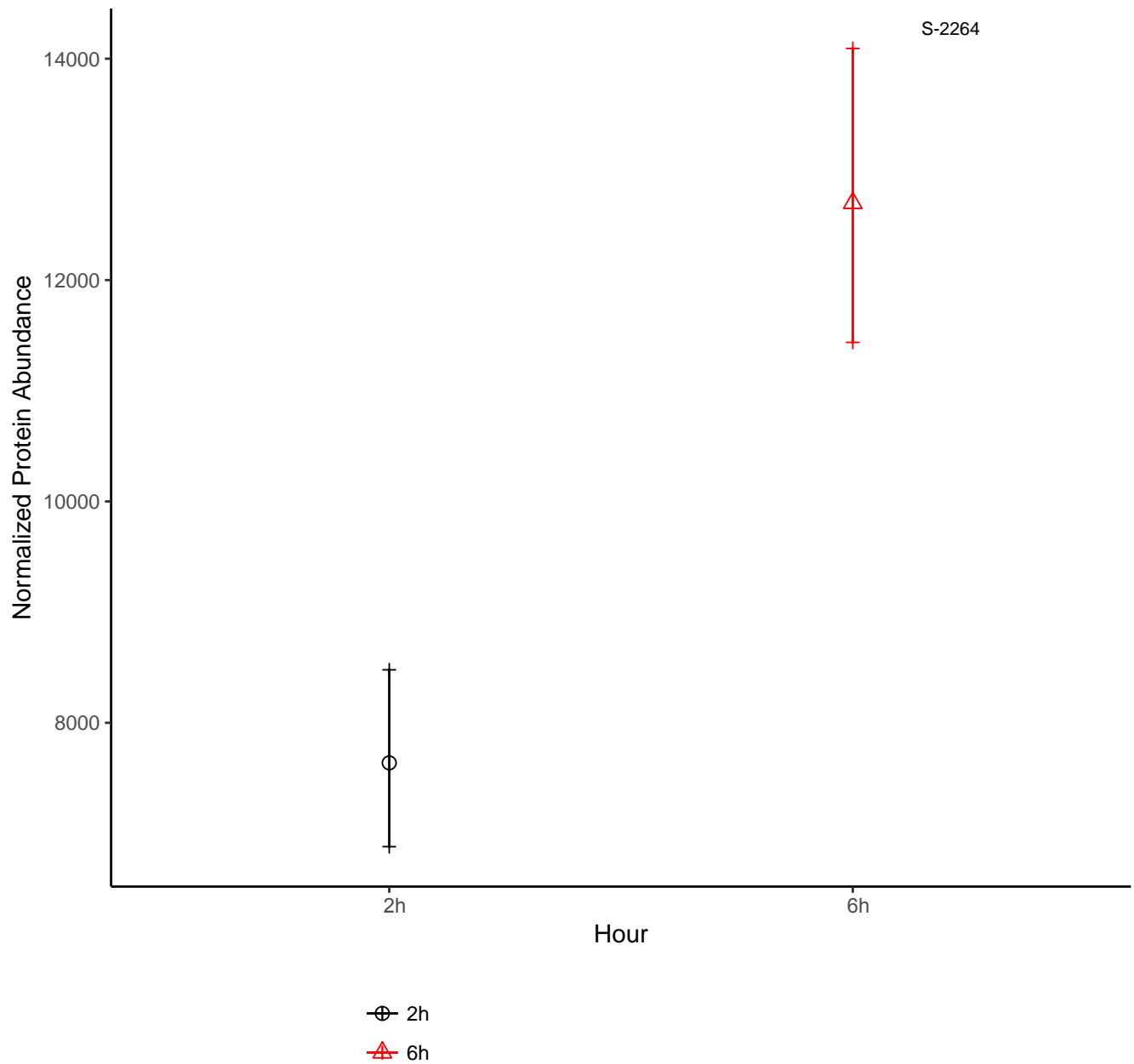
# PFLA\_STAAM



# PFLB\_STAAM

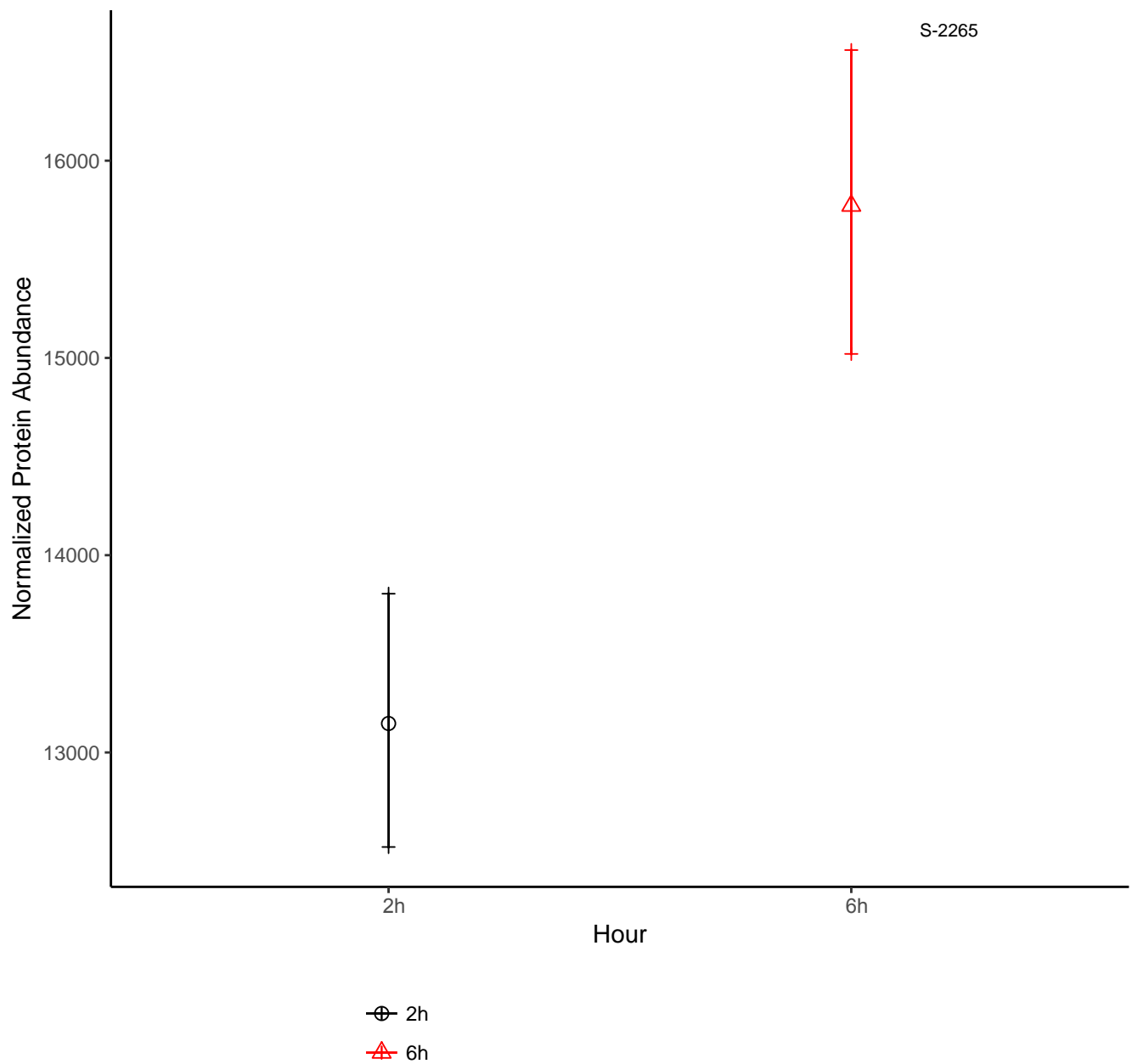


# PGCA\_STAAM



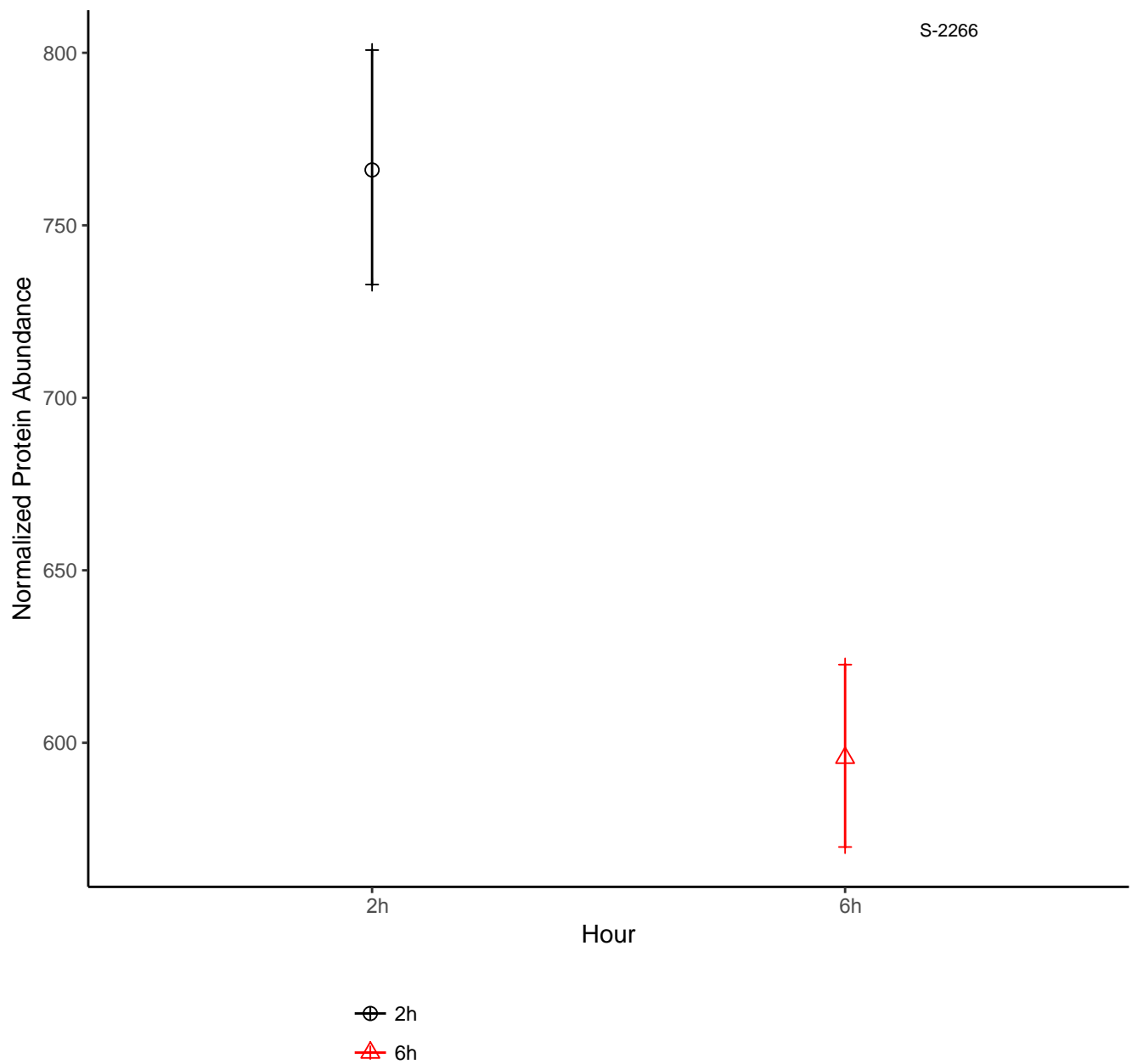


# PGK\_STAAM



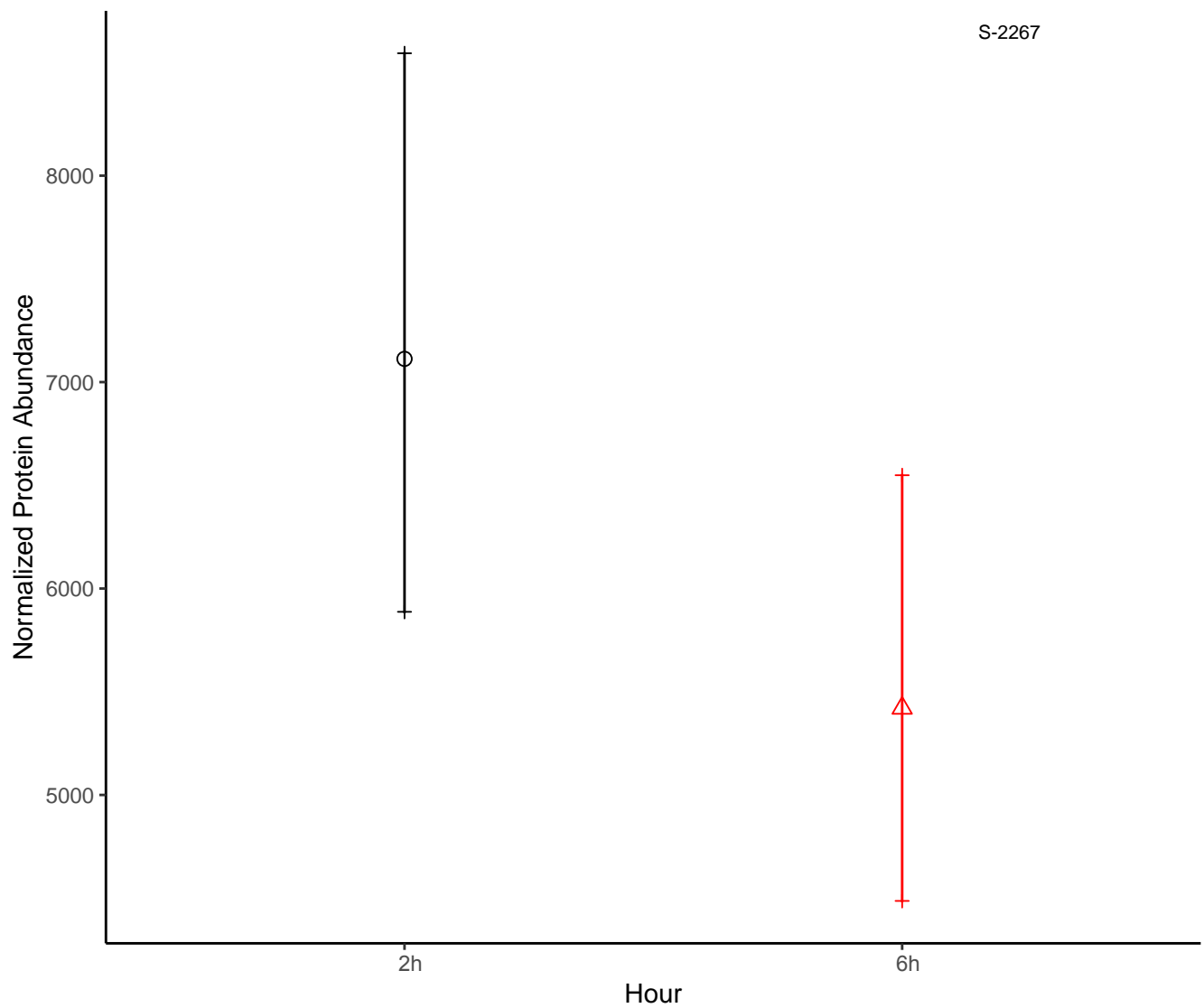
# PHNC\_STAAM

S-2266



# PLSX\_STAAM

S-2267

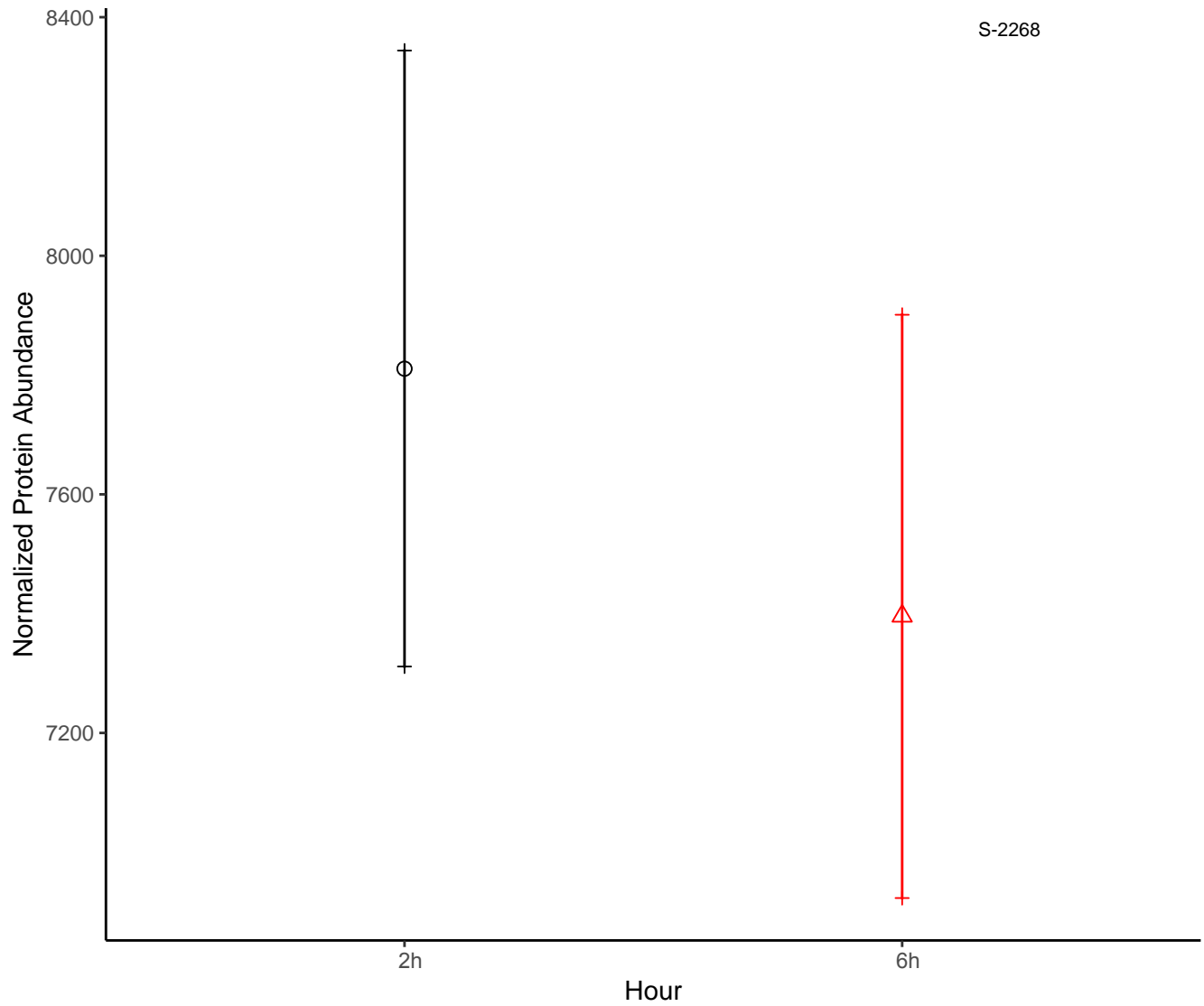


⊕ 2h

△ 6h

# PNP\_STAAM

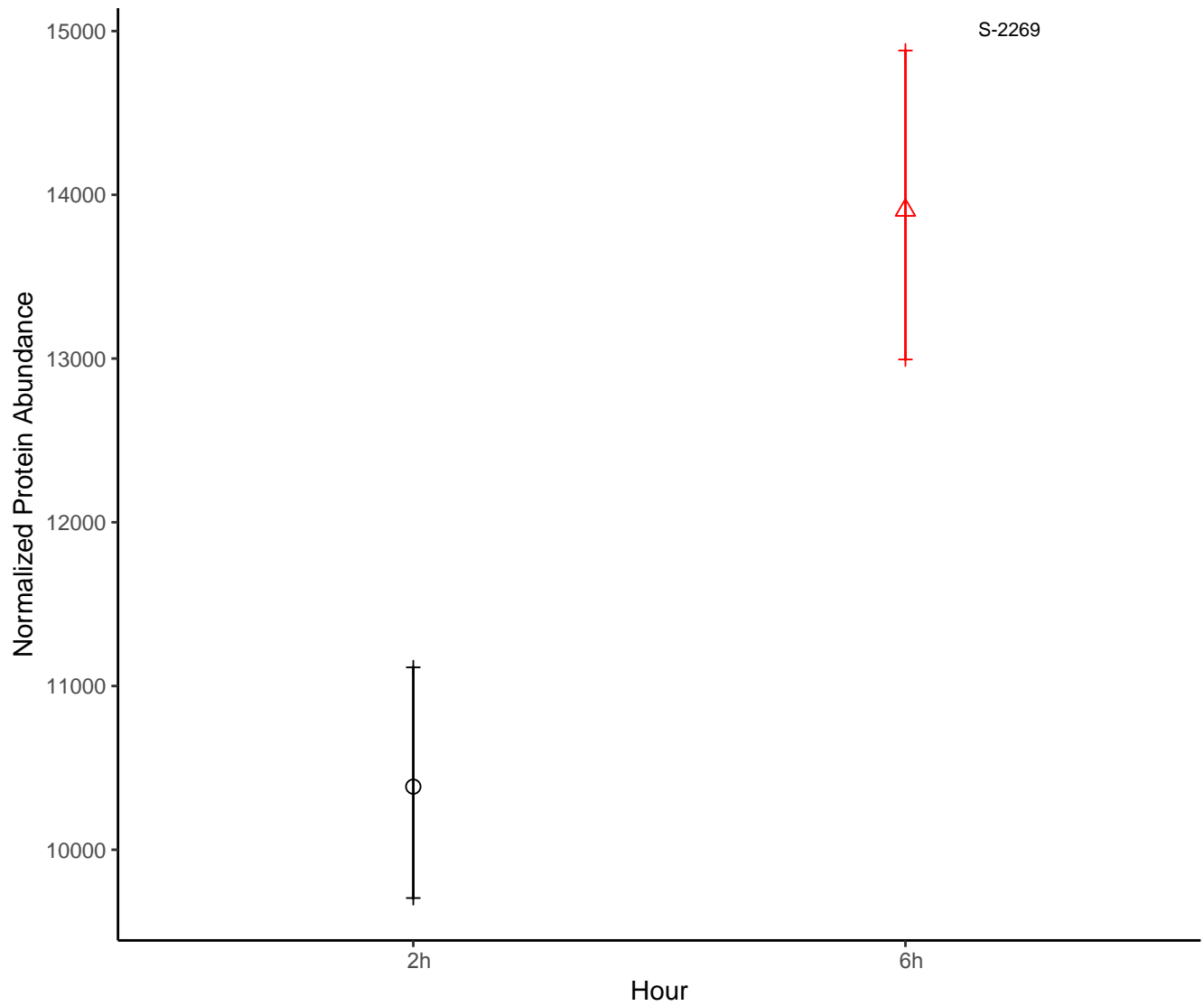
S-2268



⊕ 2h

△ 6h

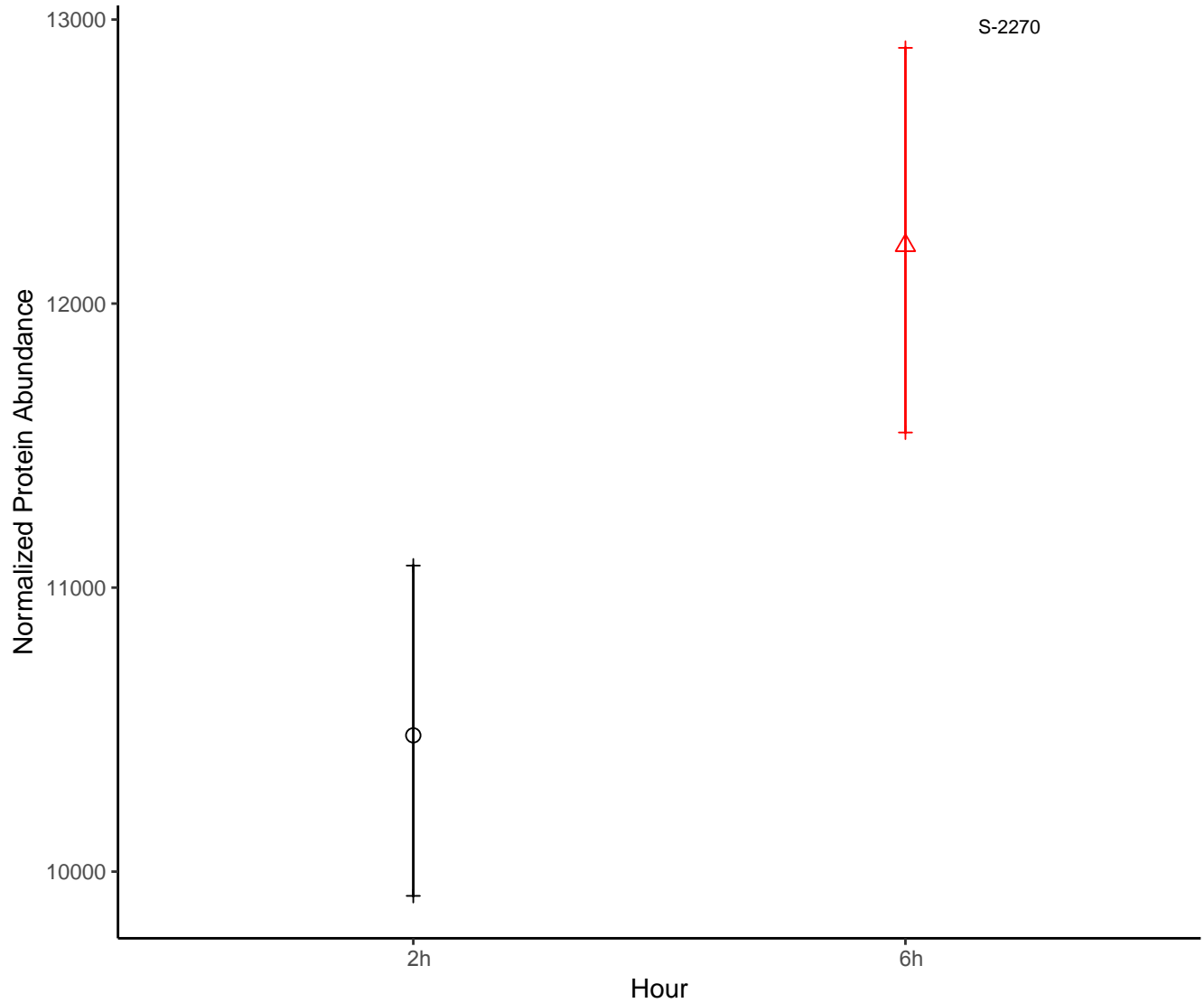
# PPAC\_STAAM



⊕ 2h

△ 6h

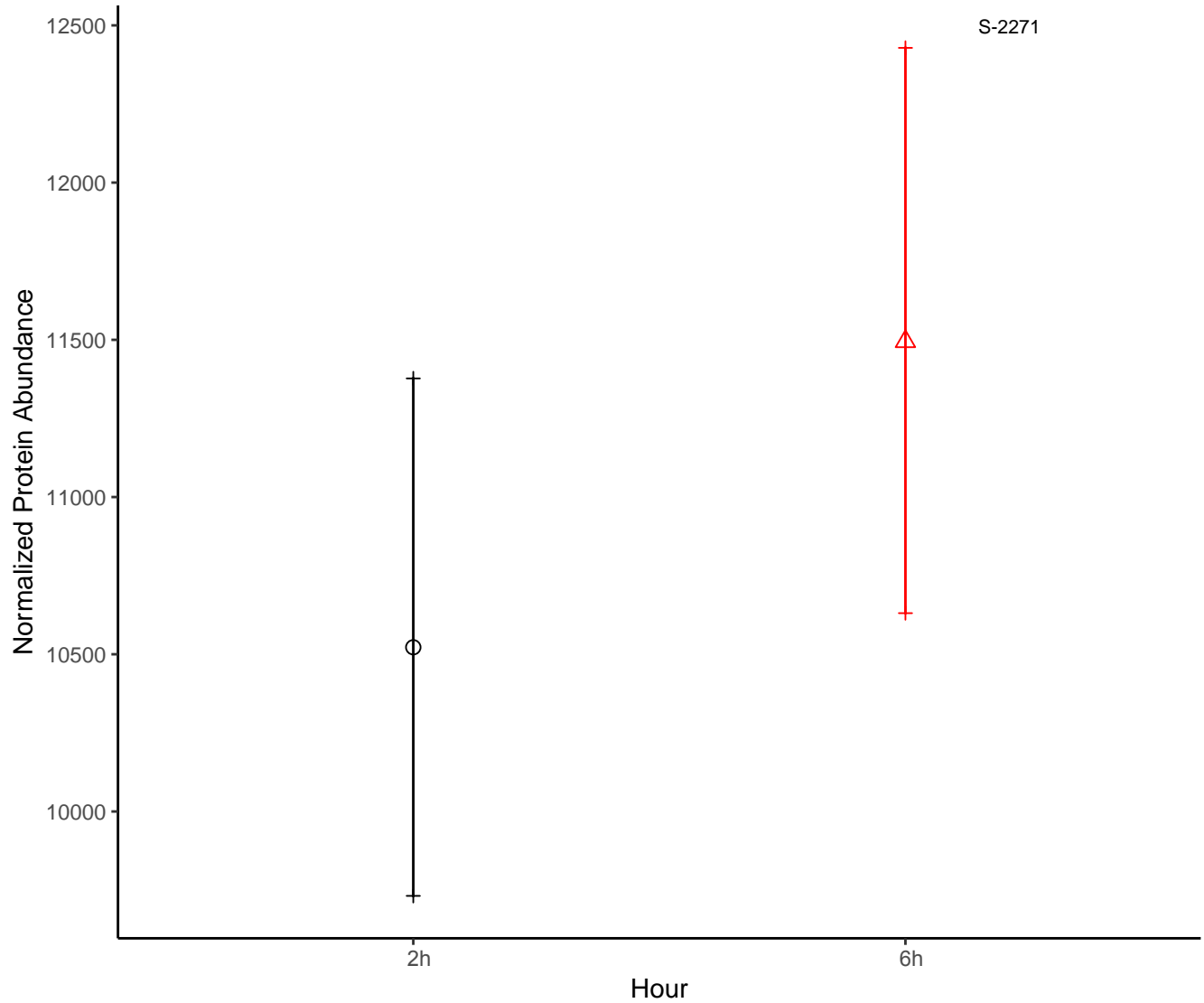
# PPAT\_STAAM



⊕ 2h

△ 6h

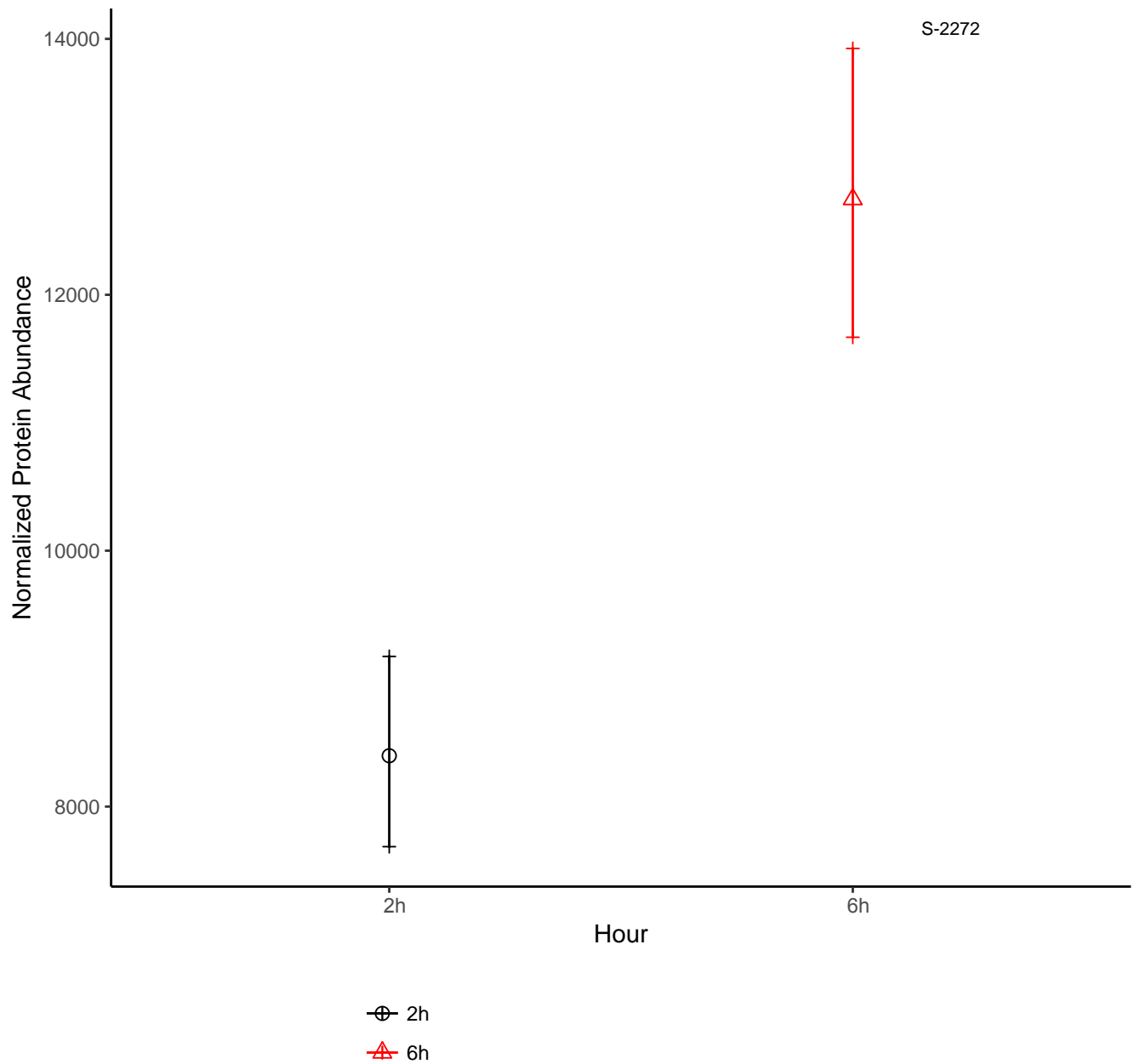
# PPI1\_STAAM



⊕ 2h

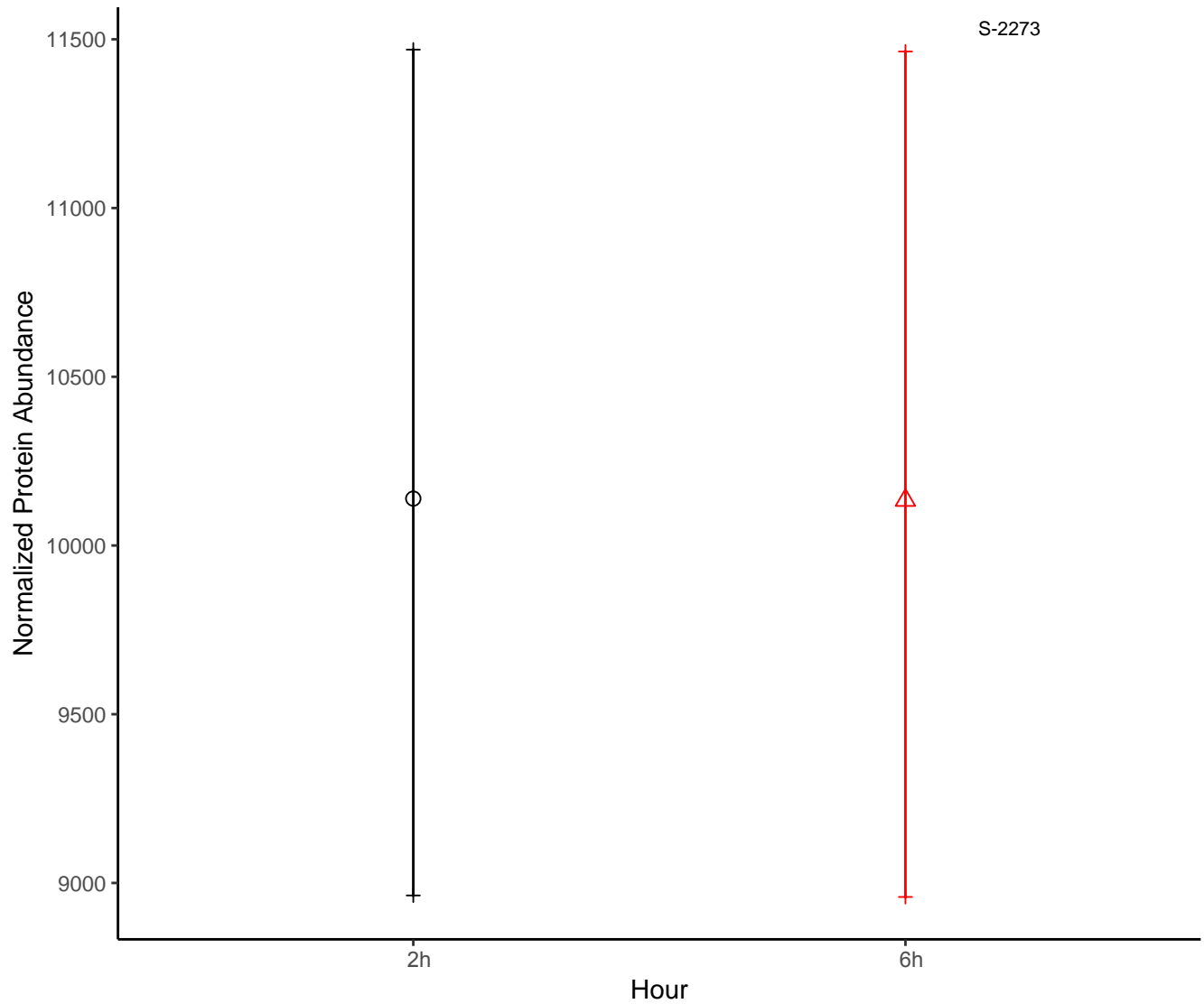
△ 6h

# PRSA\_STAAM





# PSTB\_STAAM

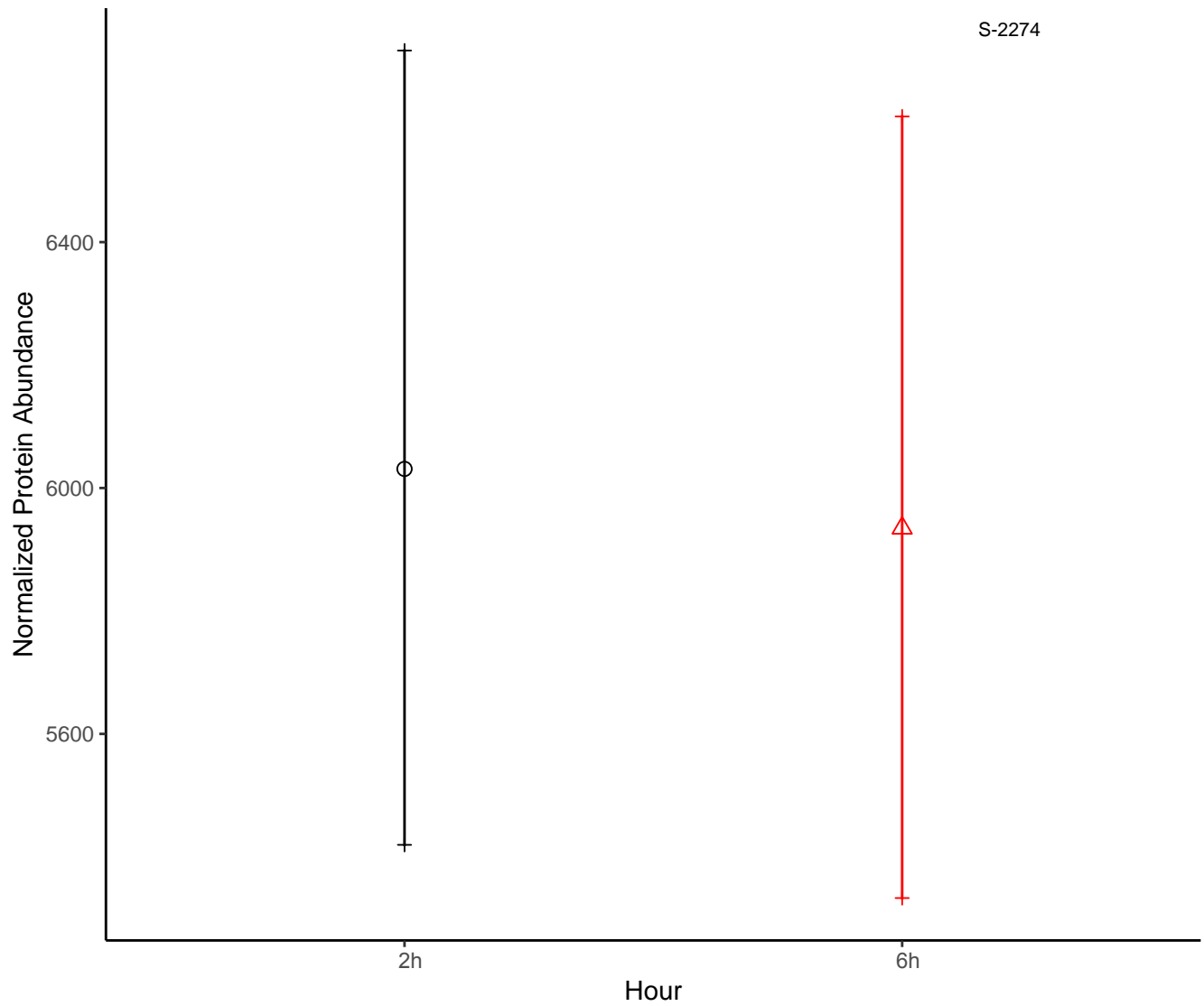


⊕ 2h

△ 6h

# PSTS\_STAAM

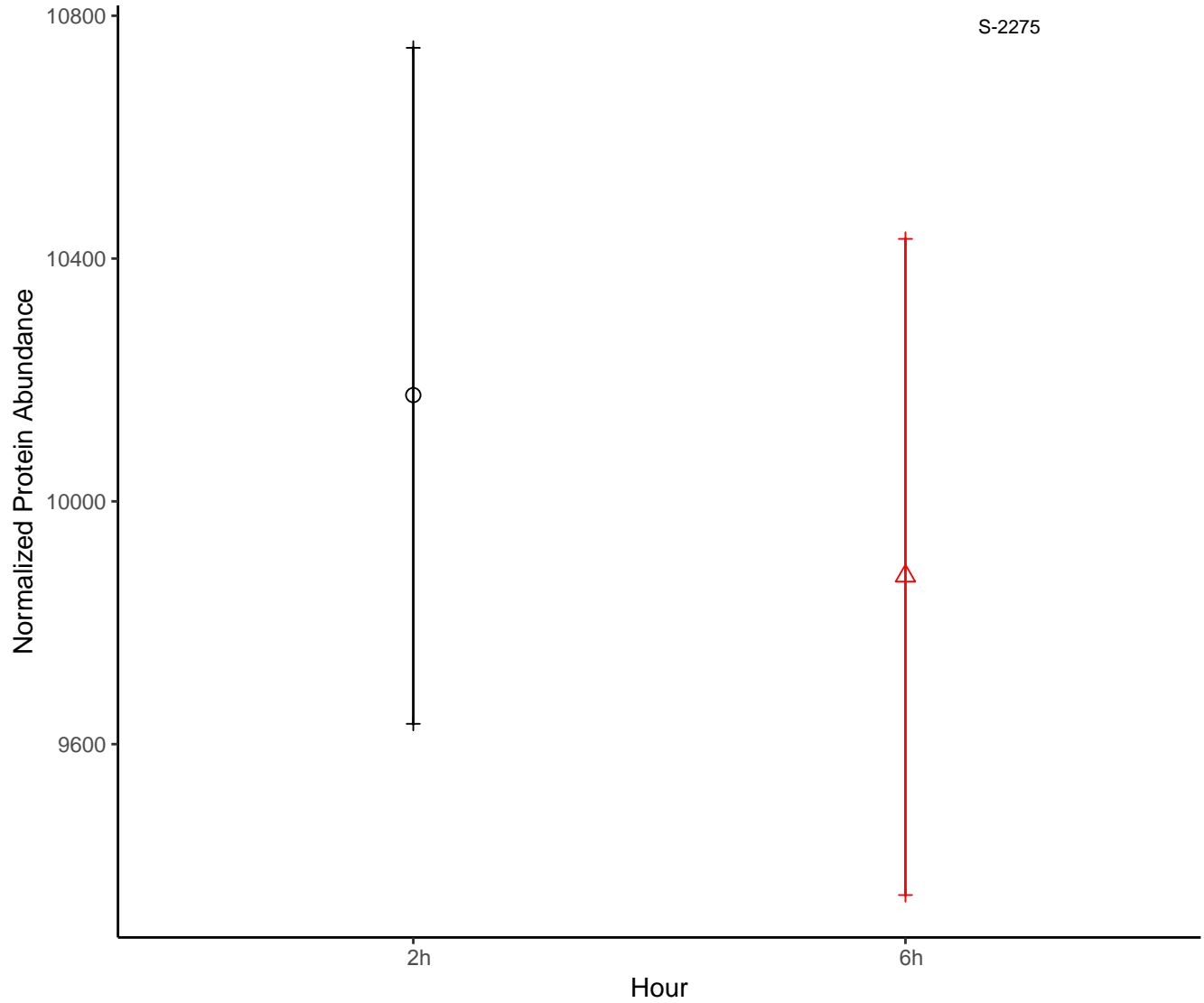
S-2274



⊕ 2h

△ 6h

# PT1\_STAAM

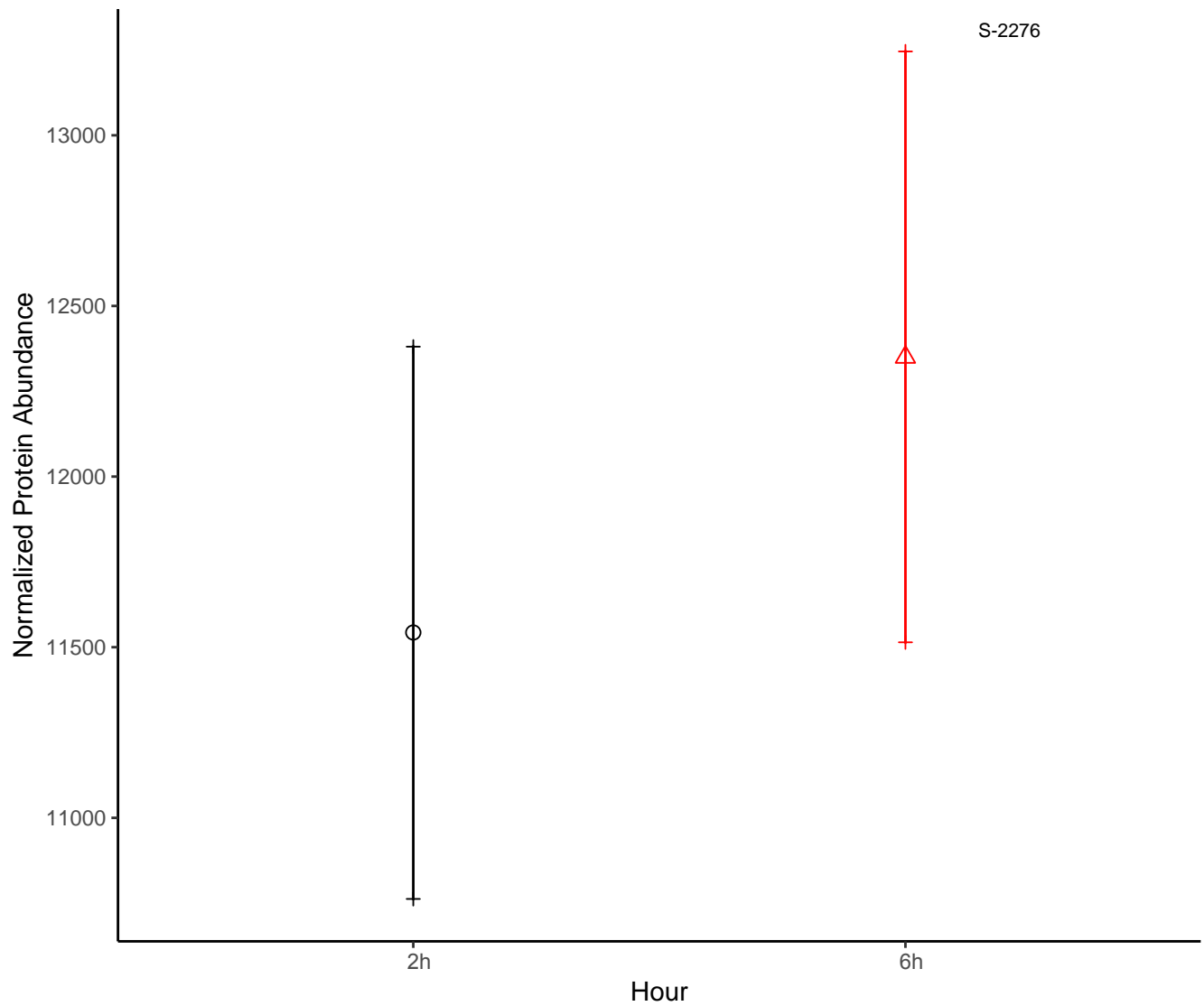


S-2275

⊕ 2h

△ 6h

# PTAS\_STAAM

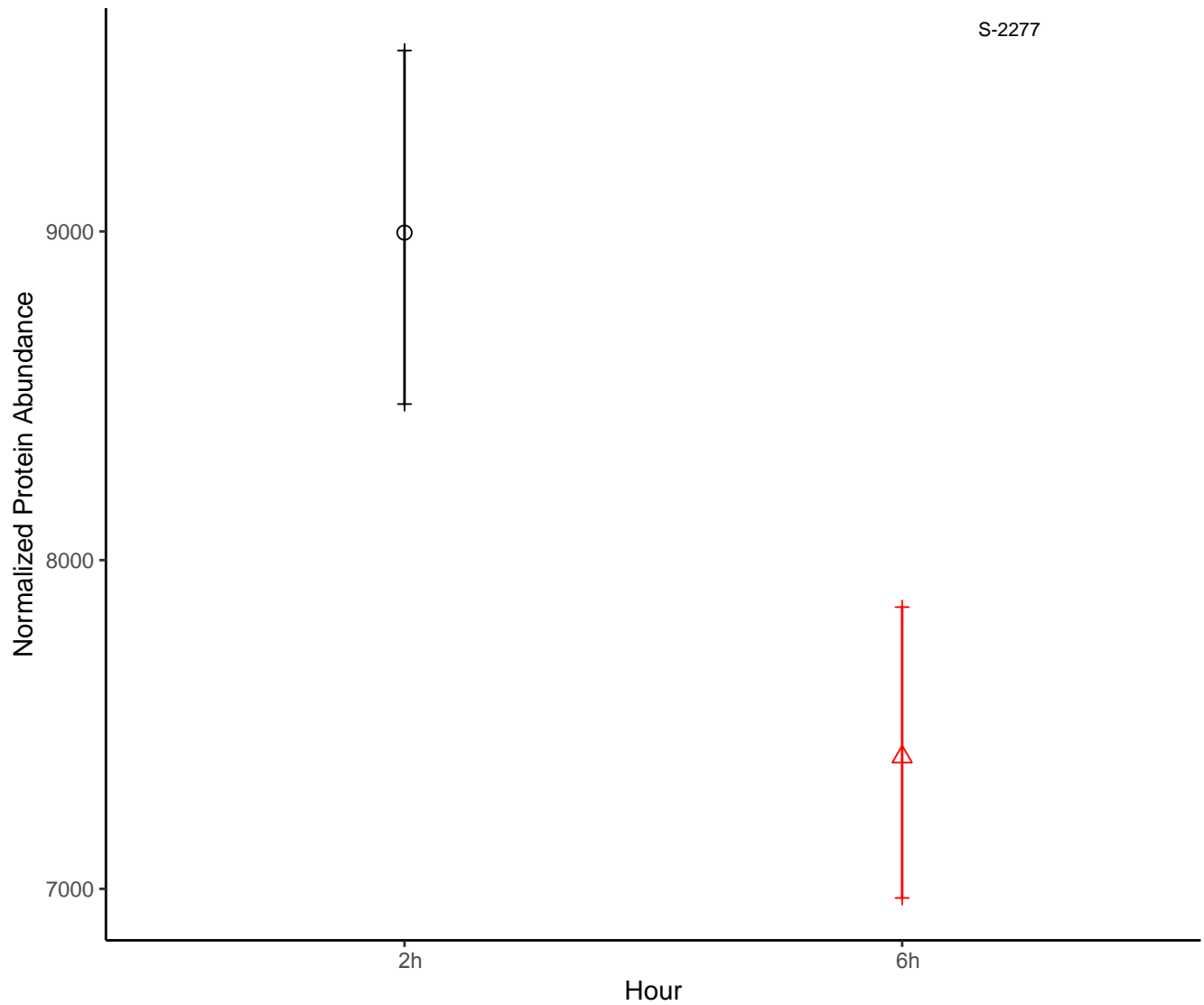


⊕ 2h

△ 6h

# PTG3C\_STAAM

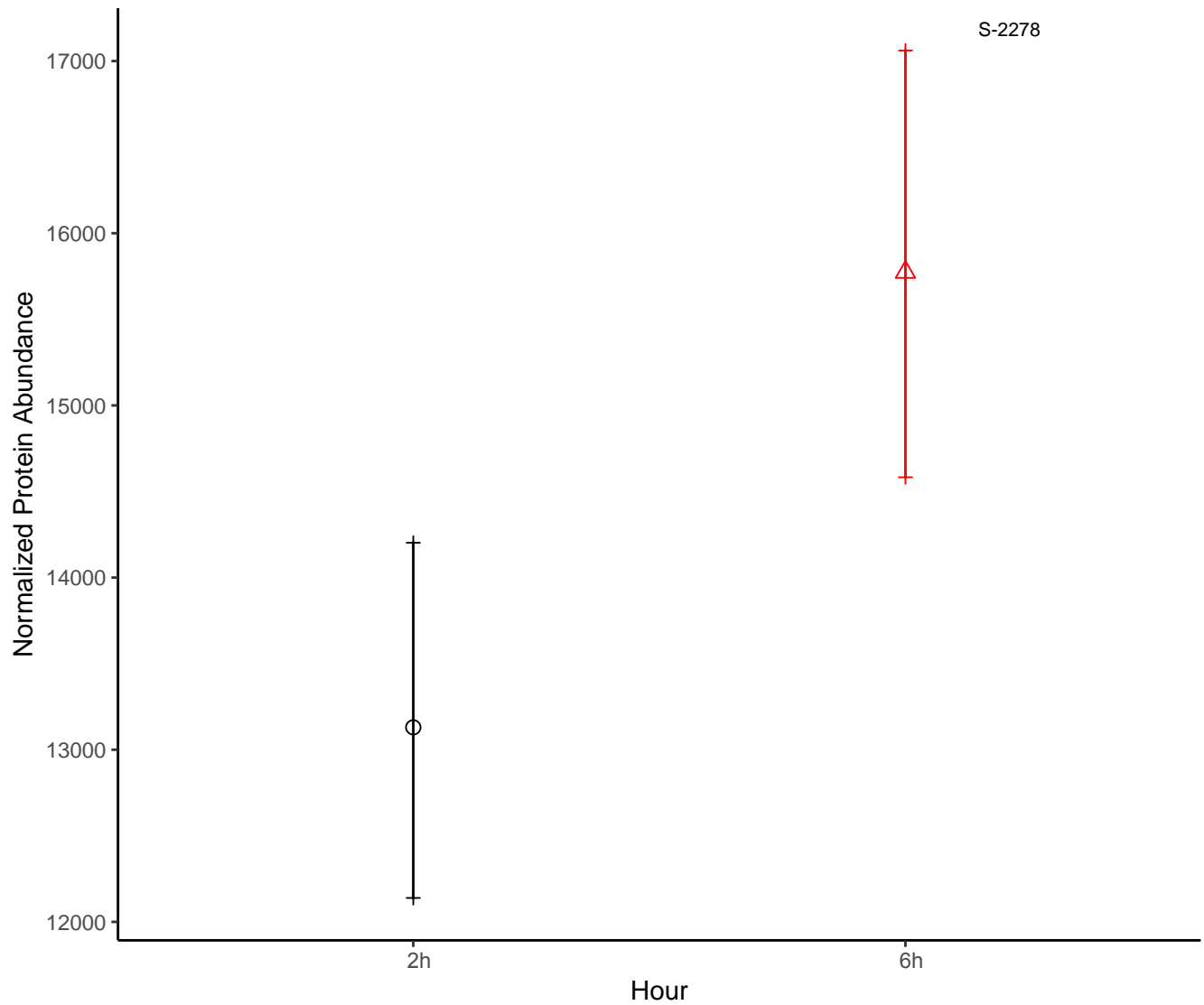
S-2277



⊕ 2h

△ 6h

# PTGA\_STAAM

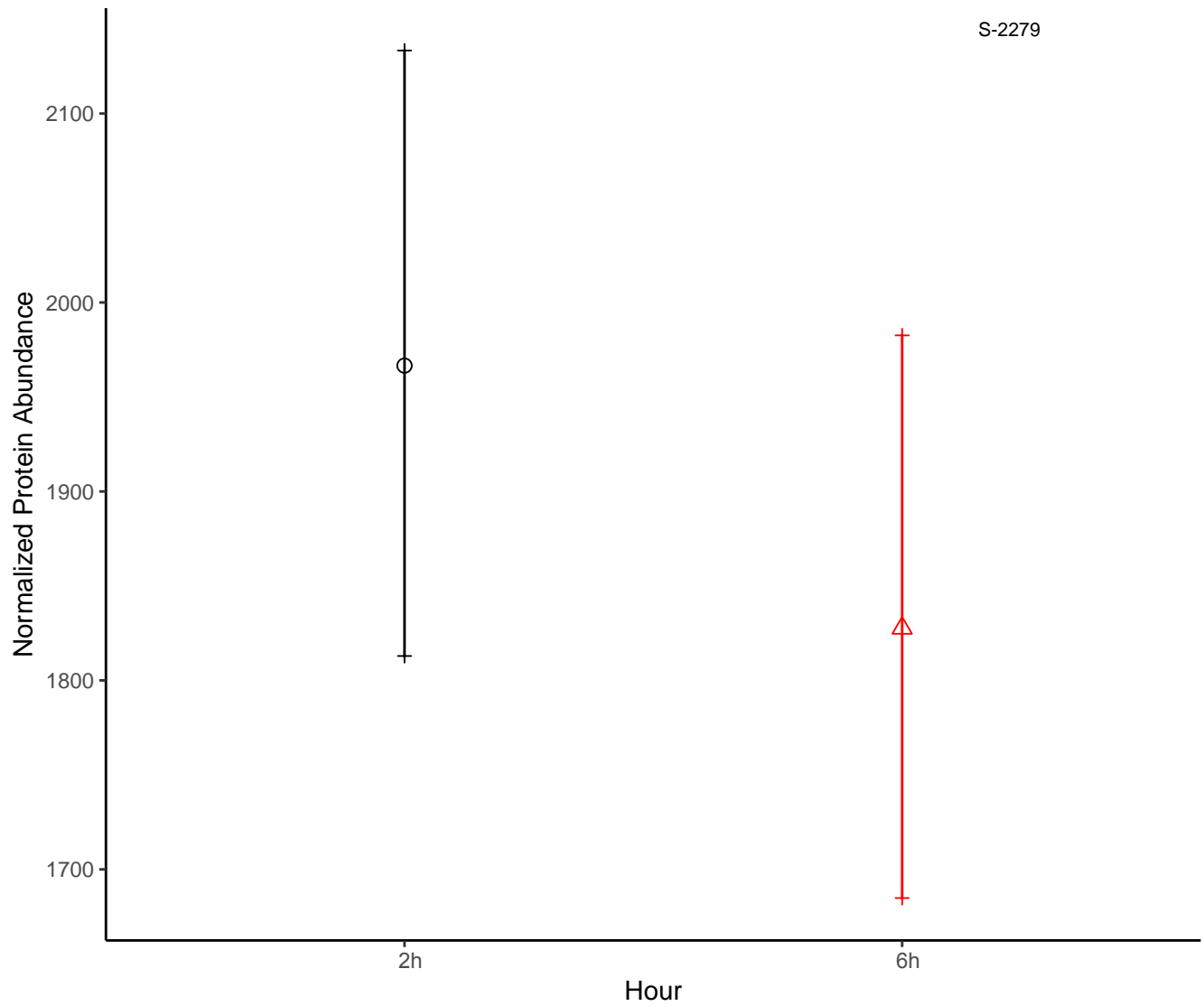


⊕ 2h

△ 6h

# PTH\_STAAM

S-2279

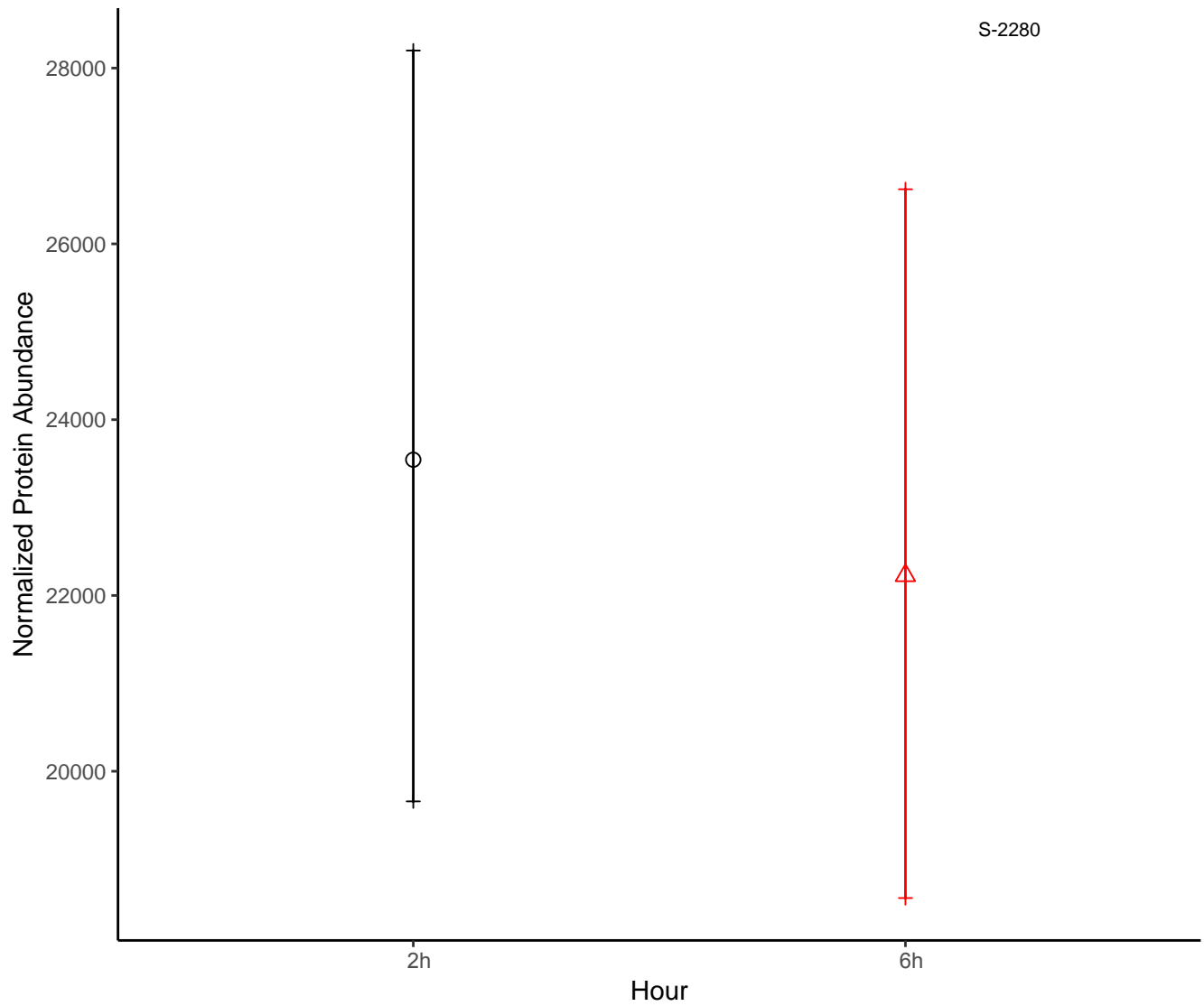


⊕ 2h

△ 6h

# PTHP\_STAAM

S-2280



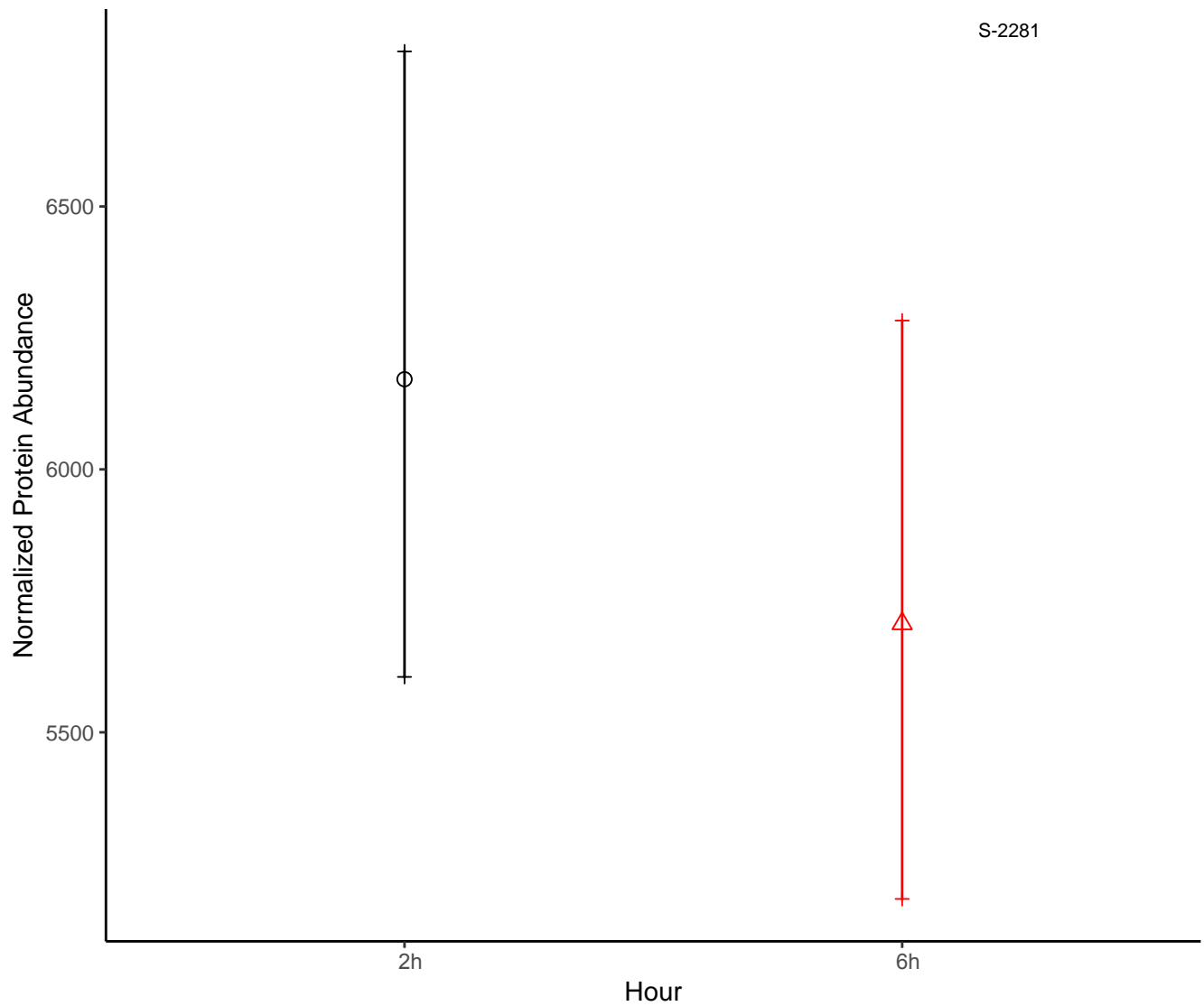
⊕ 2h

△ 6h



# PTMA\_STAAM

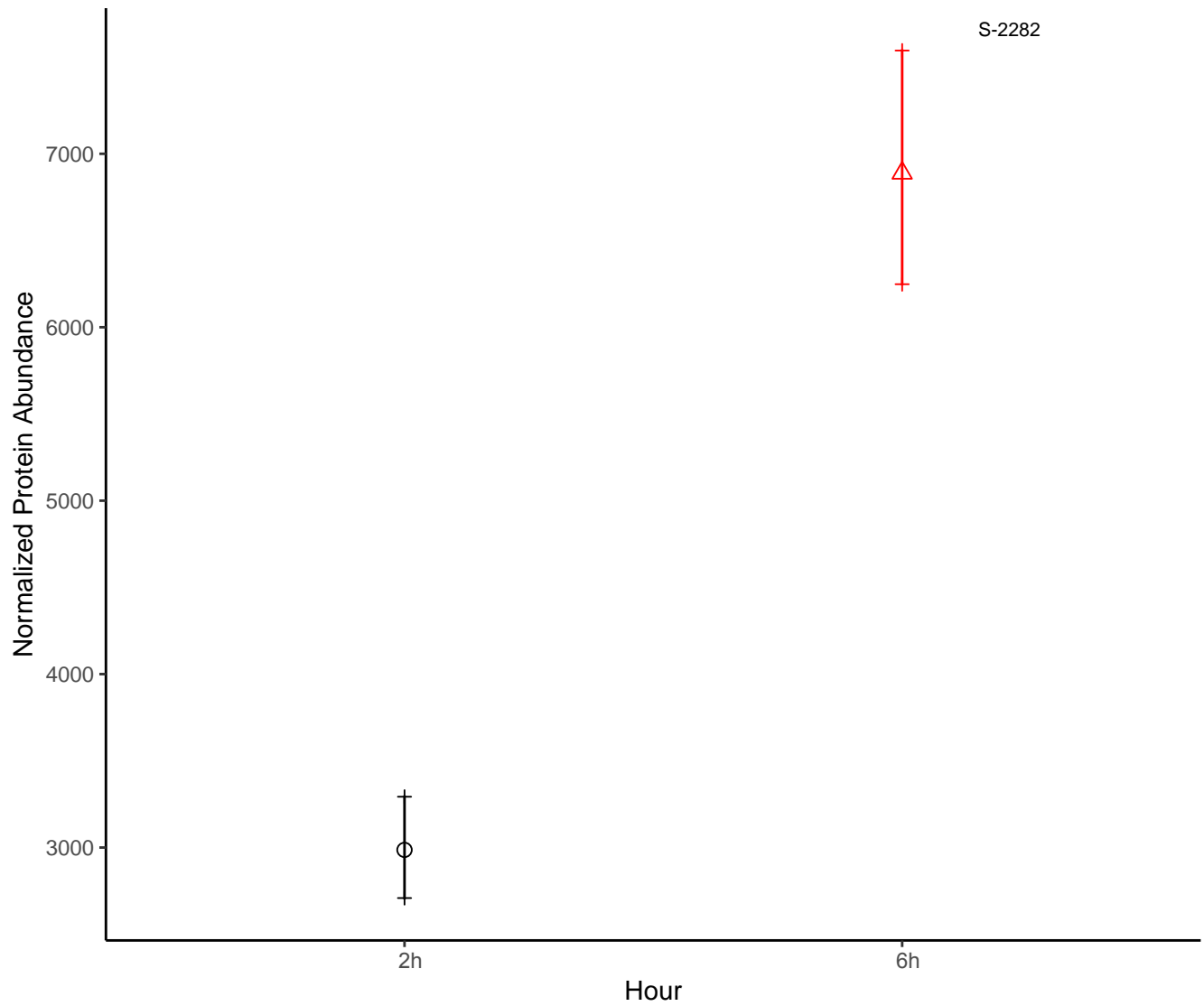
S-2281



⊕ 2h

△ 6h

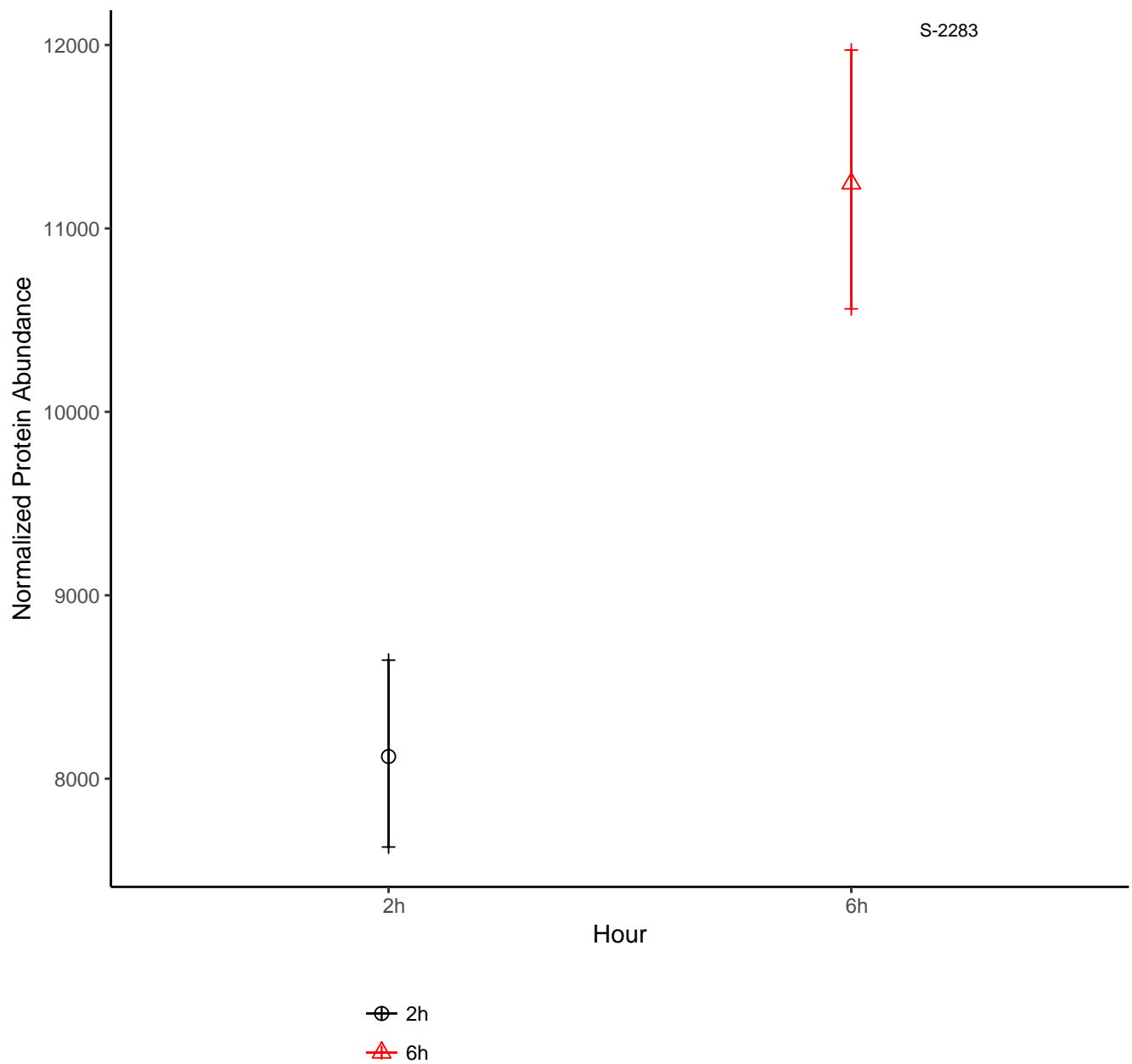
# PUR1\_STAAM



⊕ 2h

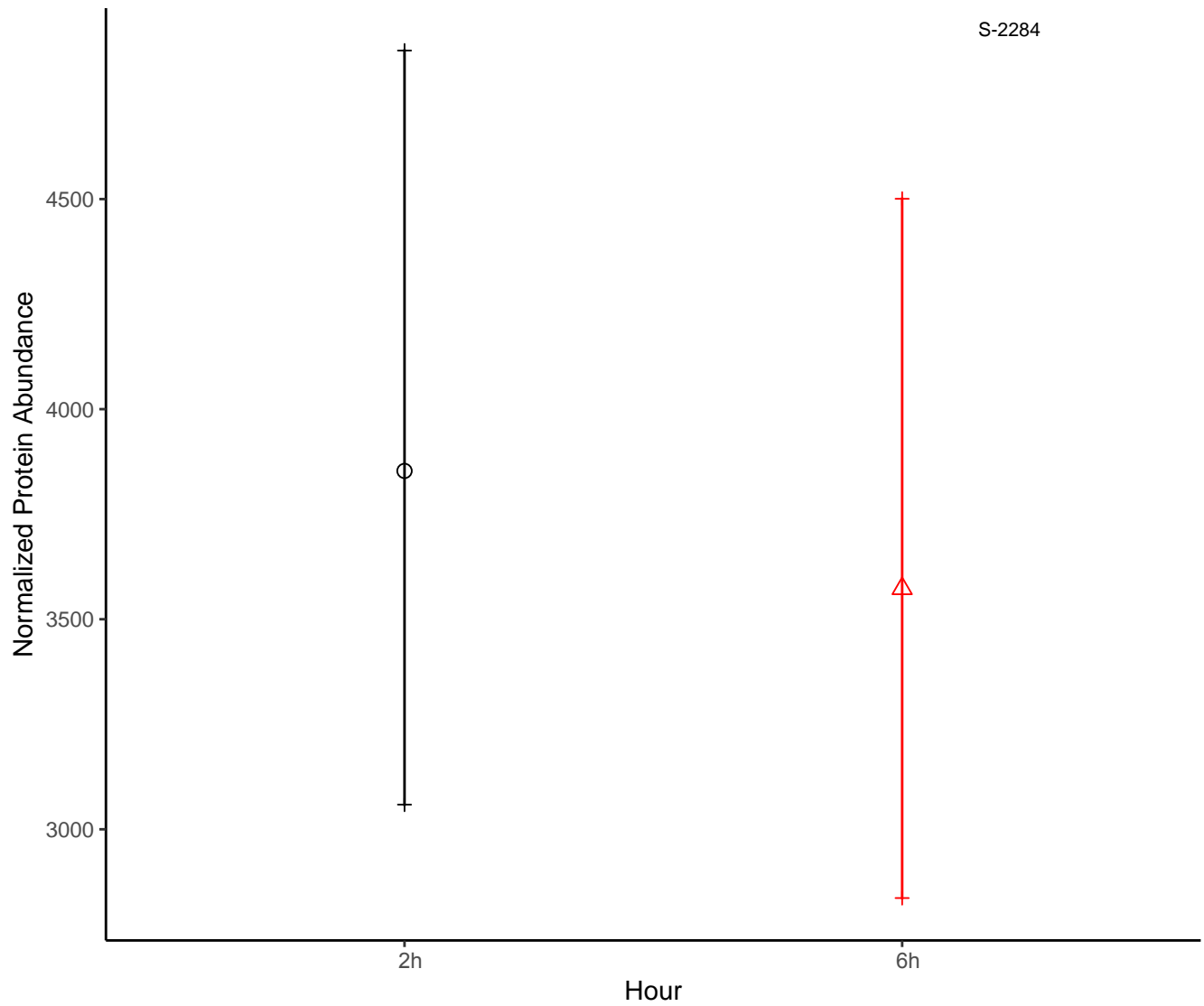
△ 6h

# PUR2\_STAAM



# PUR3\_STAAM

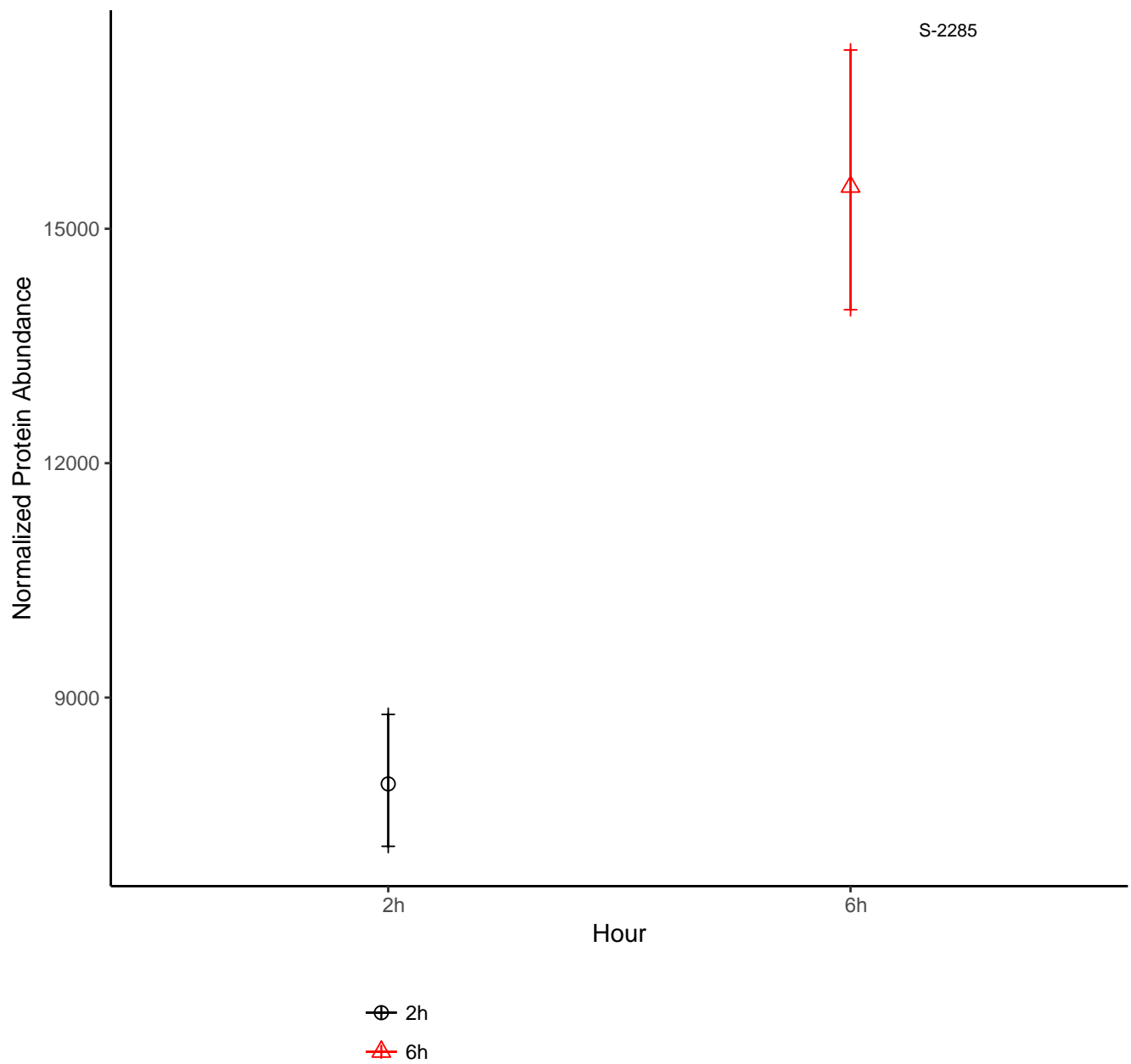
S-2284



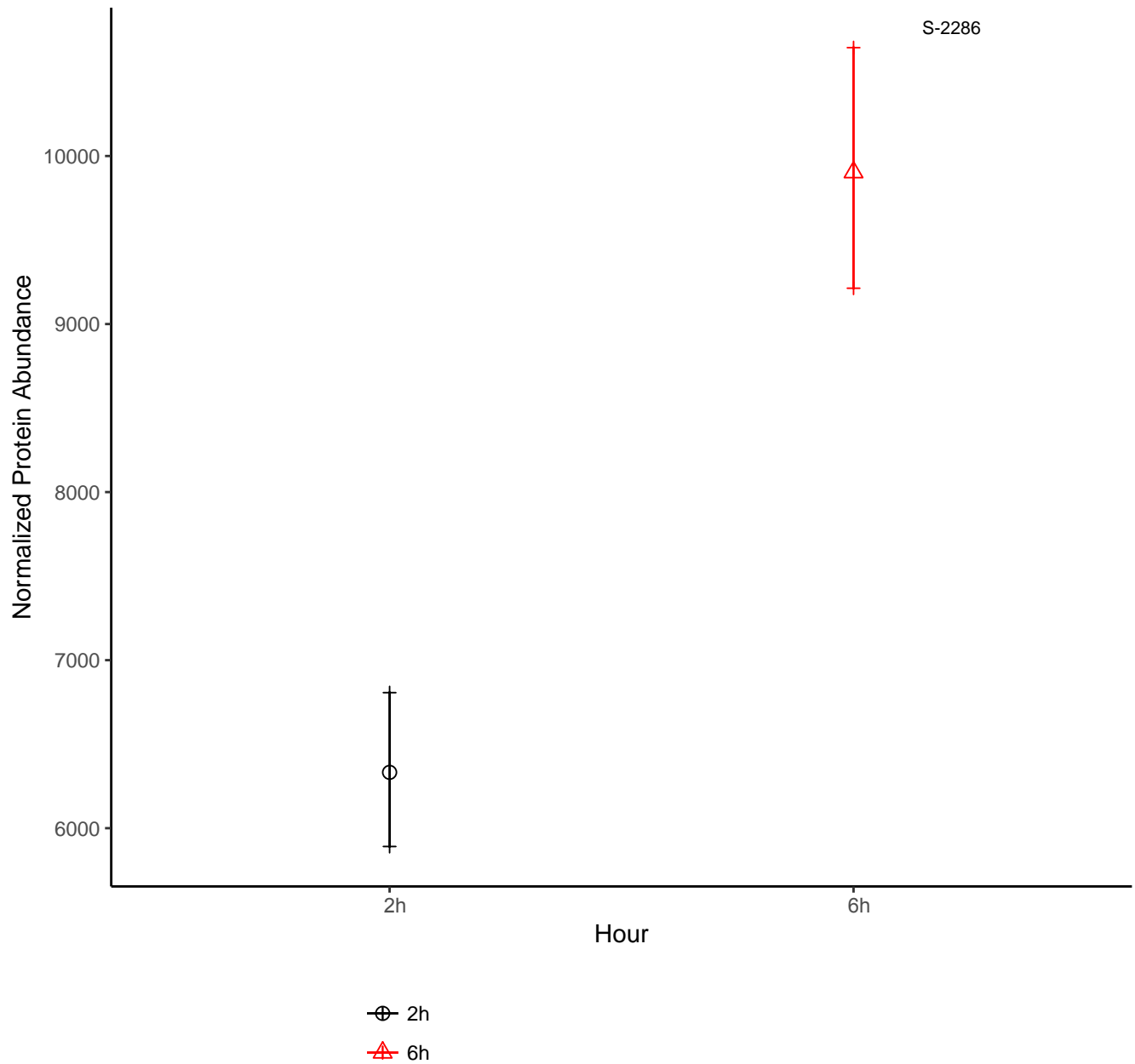
⊕ 2h

△ 6h

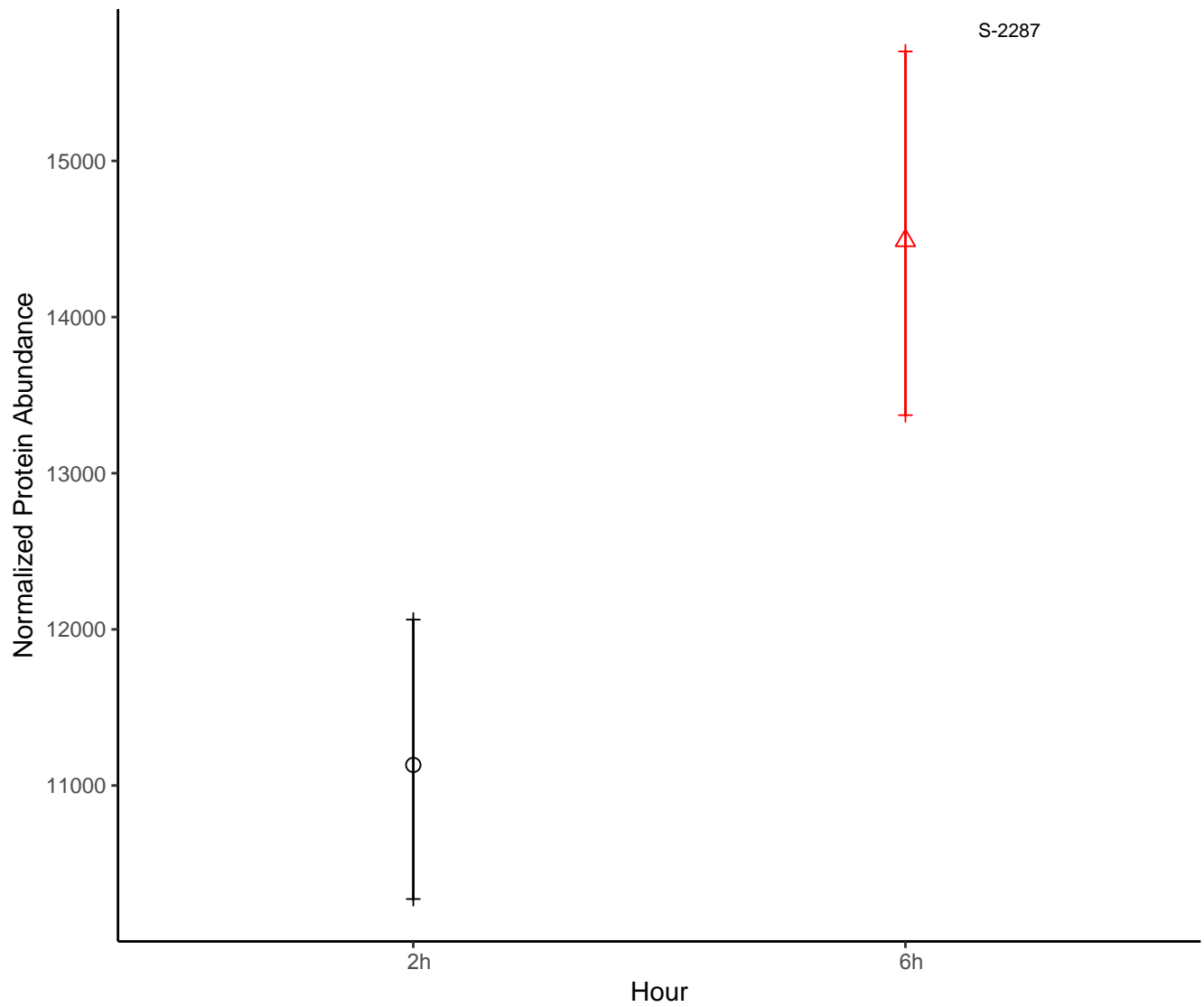
# PUR5\_STAAM



# PUR7\_STAAM



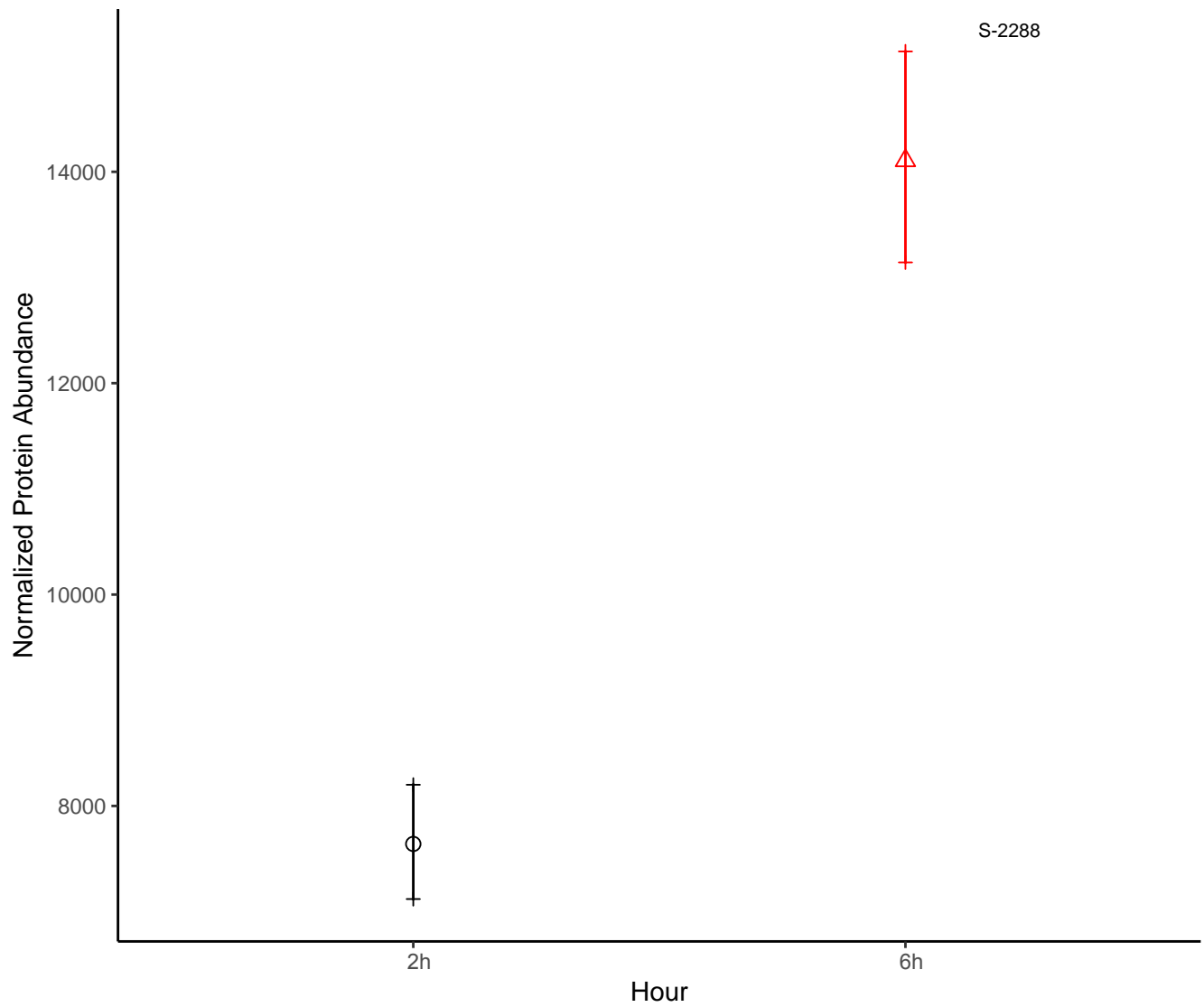
# PUR8\_STAAM



⊕ 2h

△ 6h

# PUR9\_STAAM

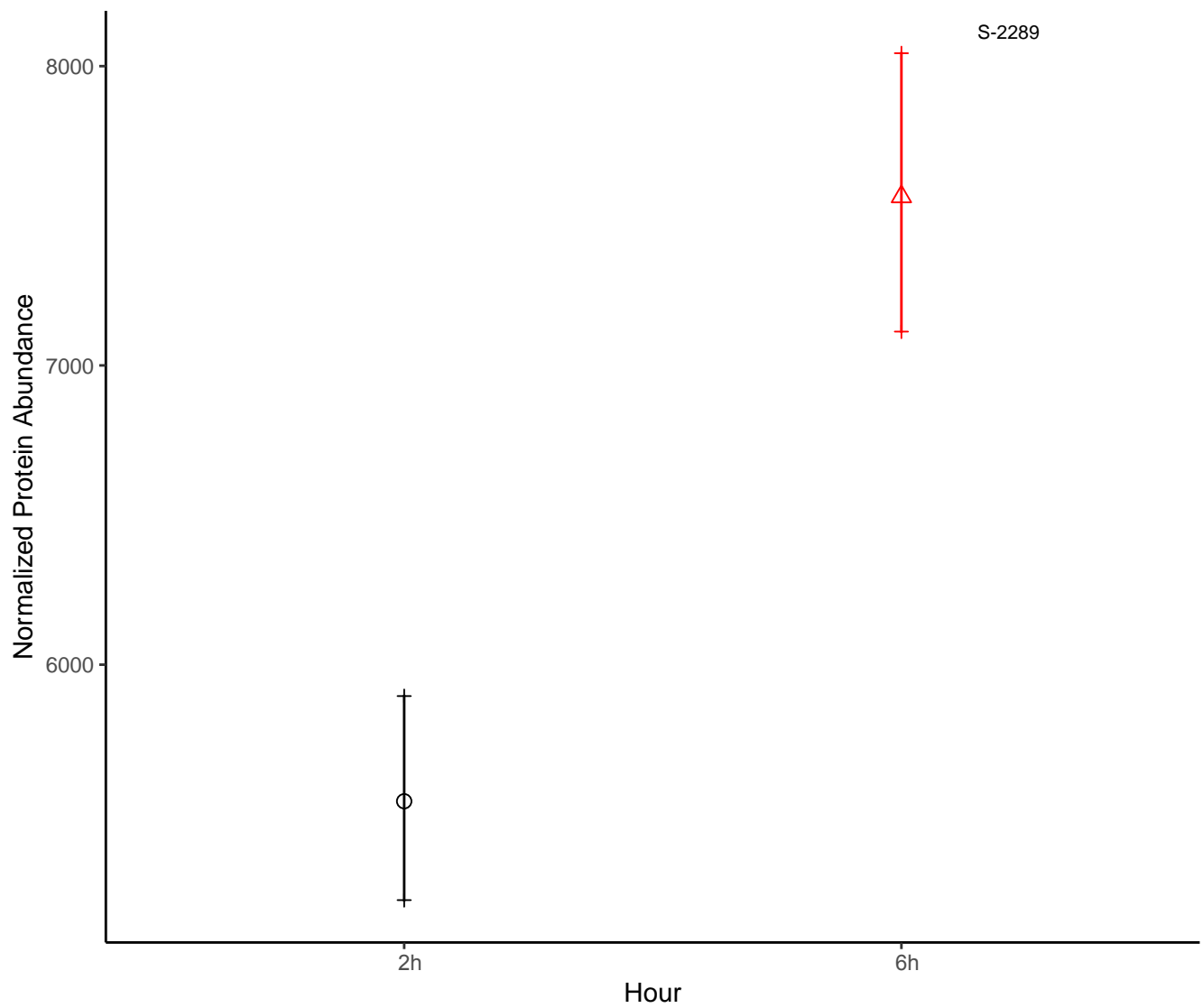


⊕ 2h

△ 6h



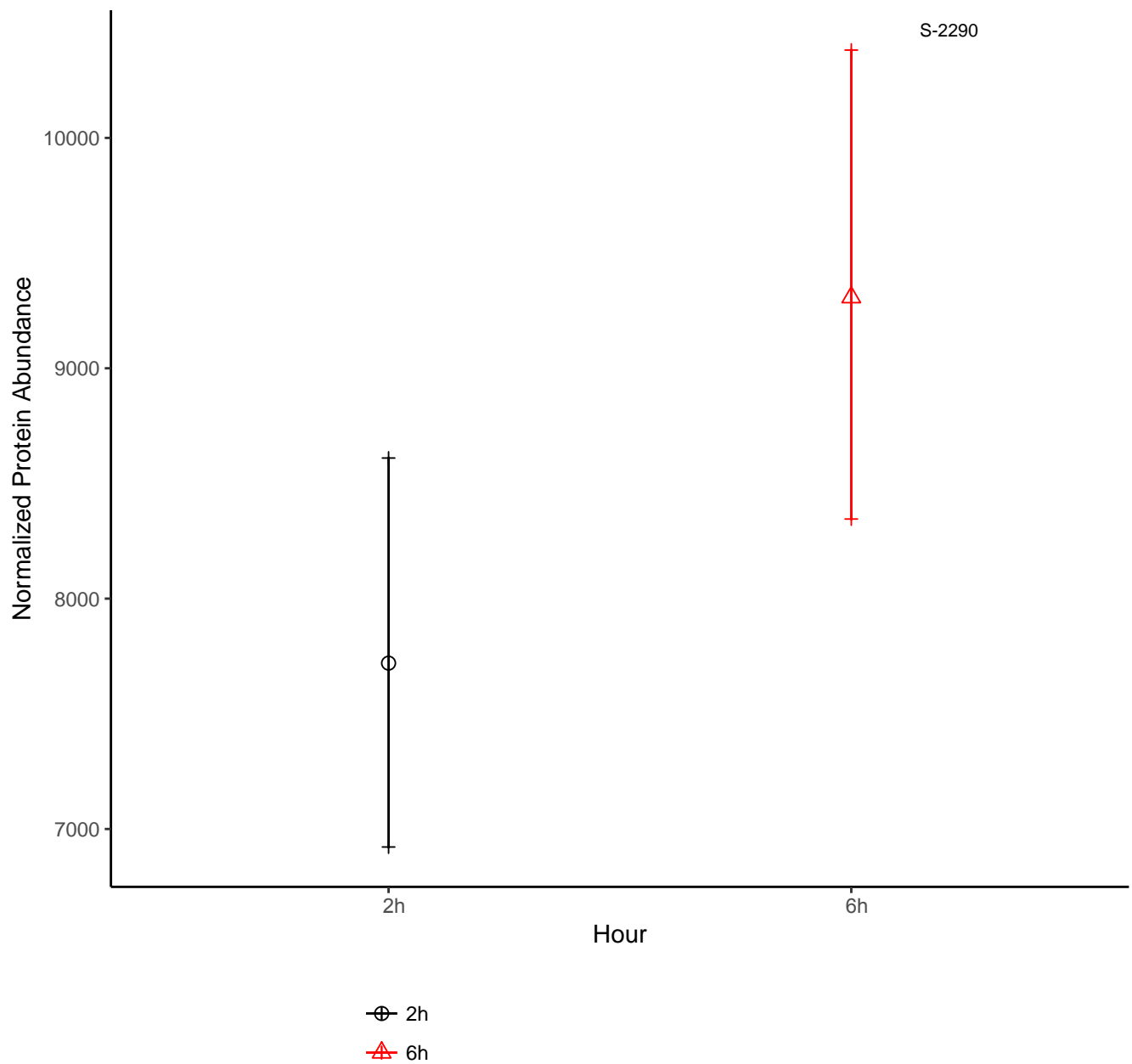
# PURA\_STAAM



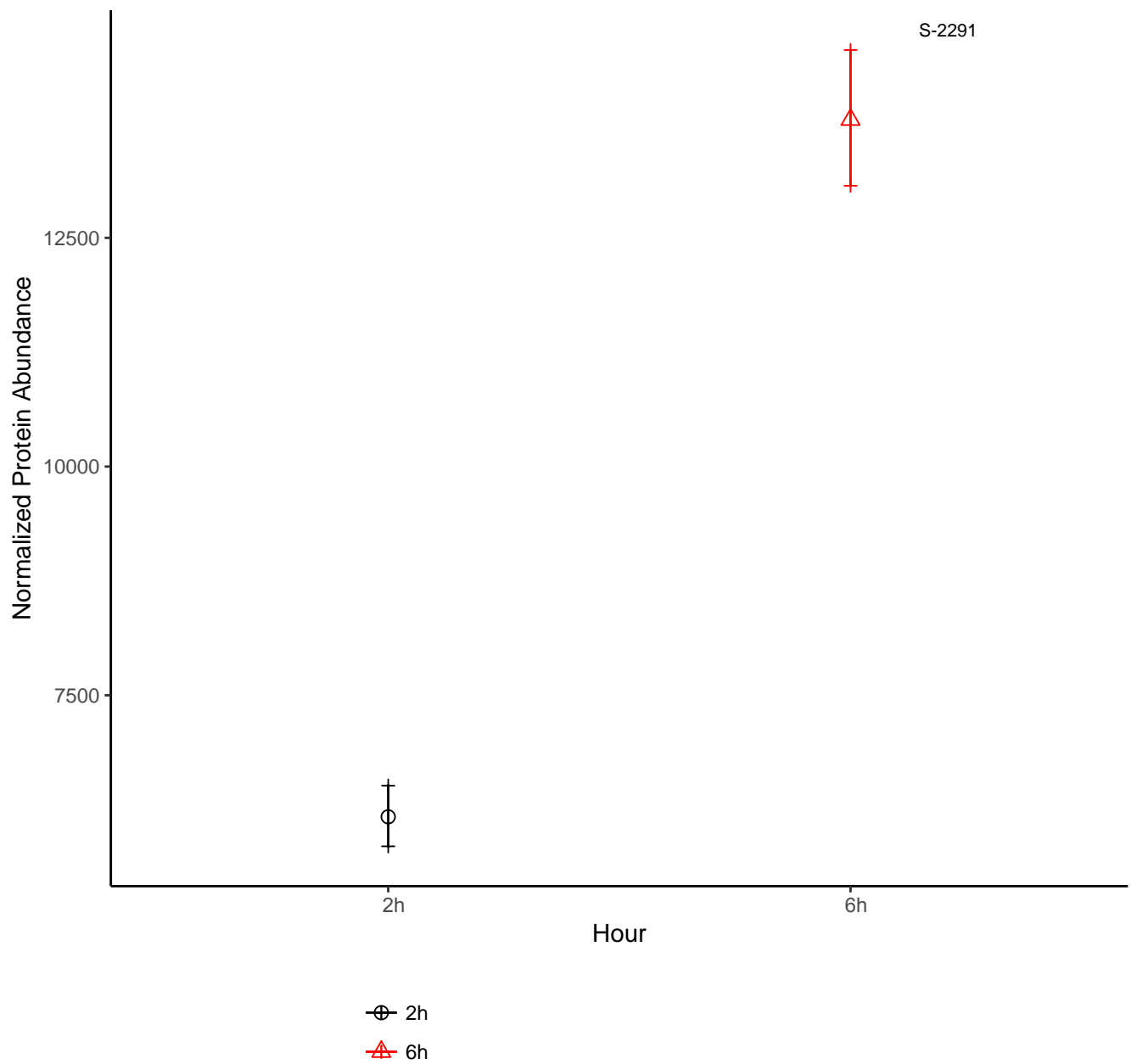
⊕ 2h

⊕ 6h

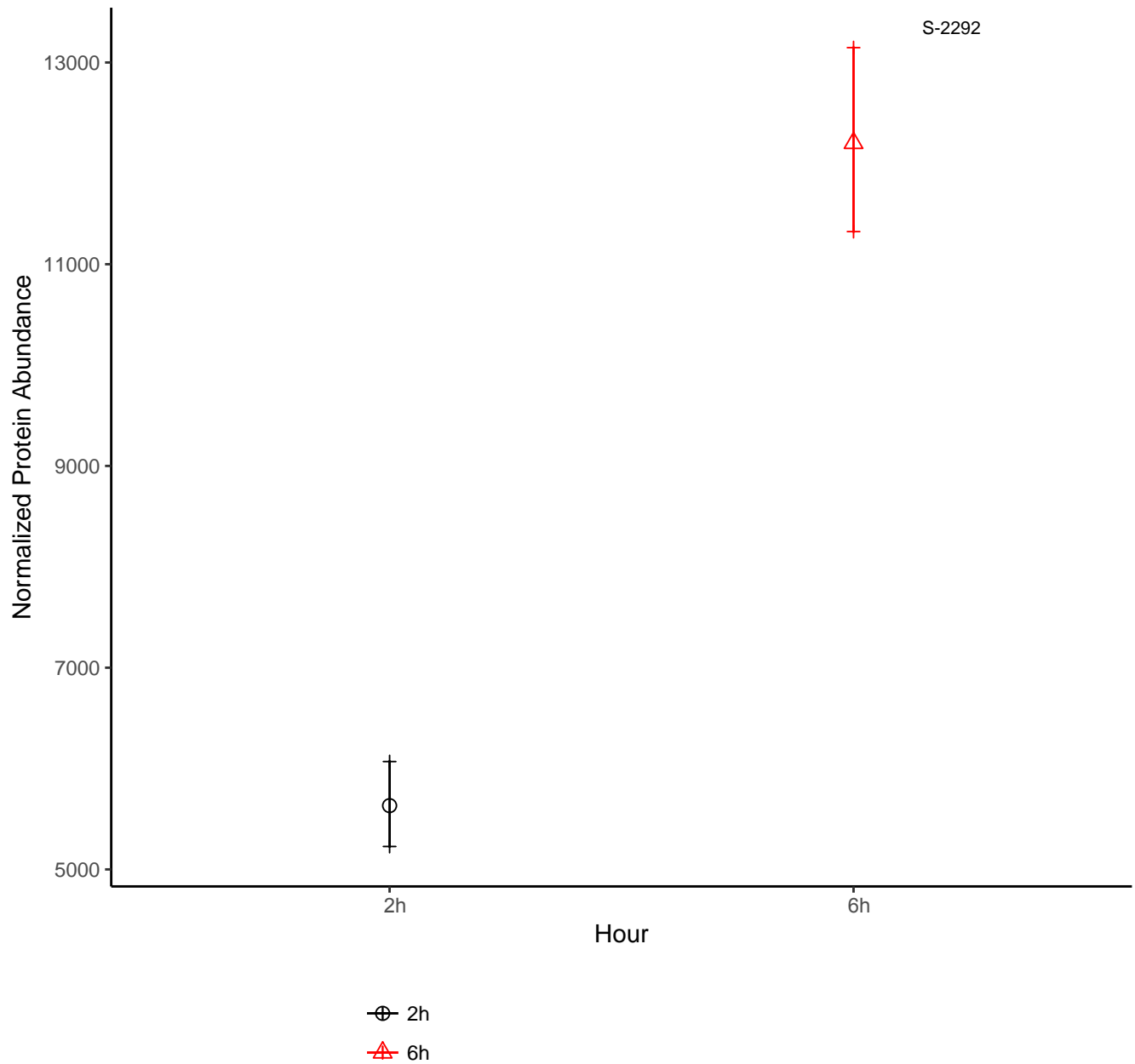
# PURK\_STAAM



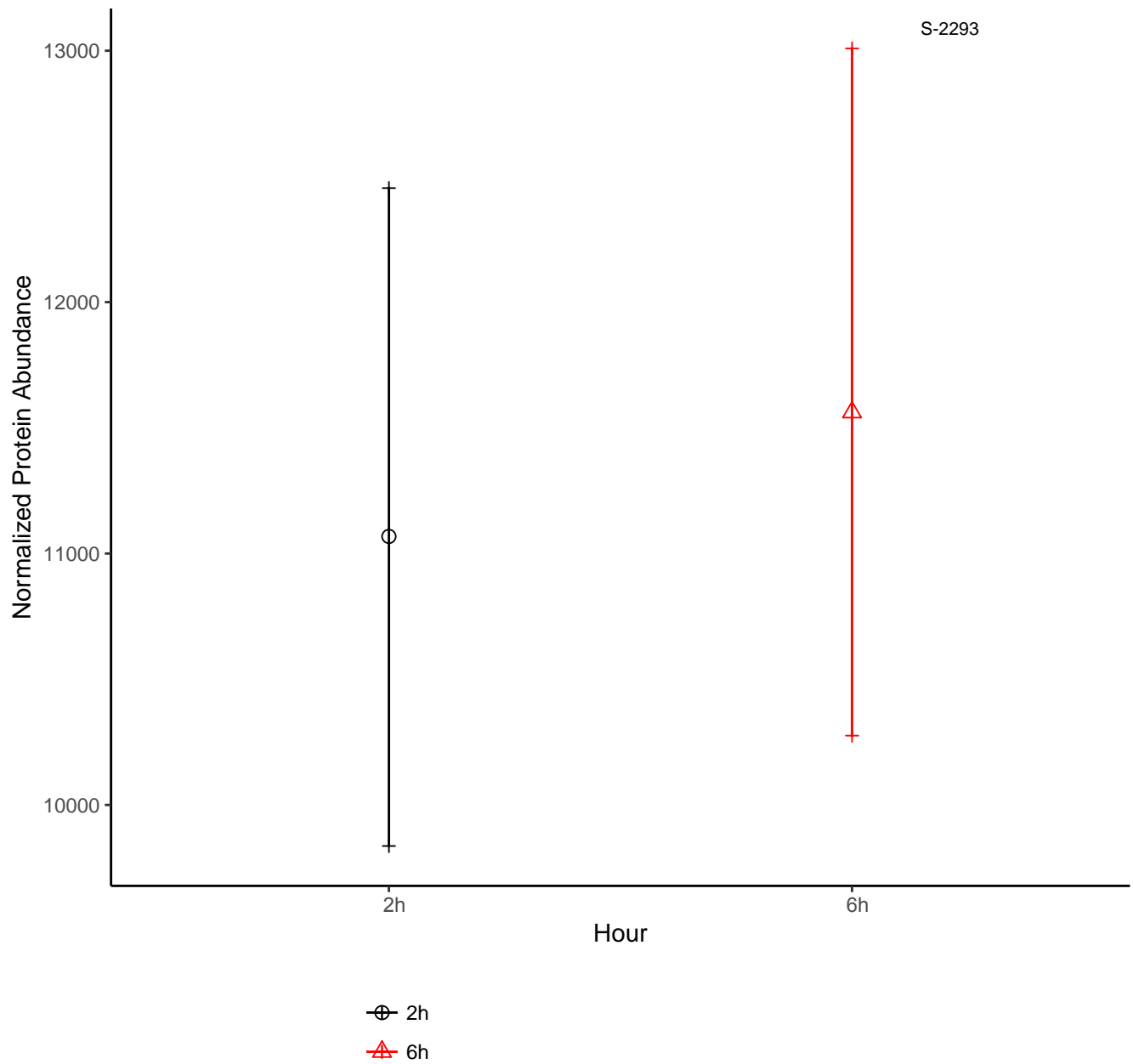
# PURL\_STAAM



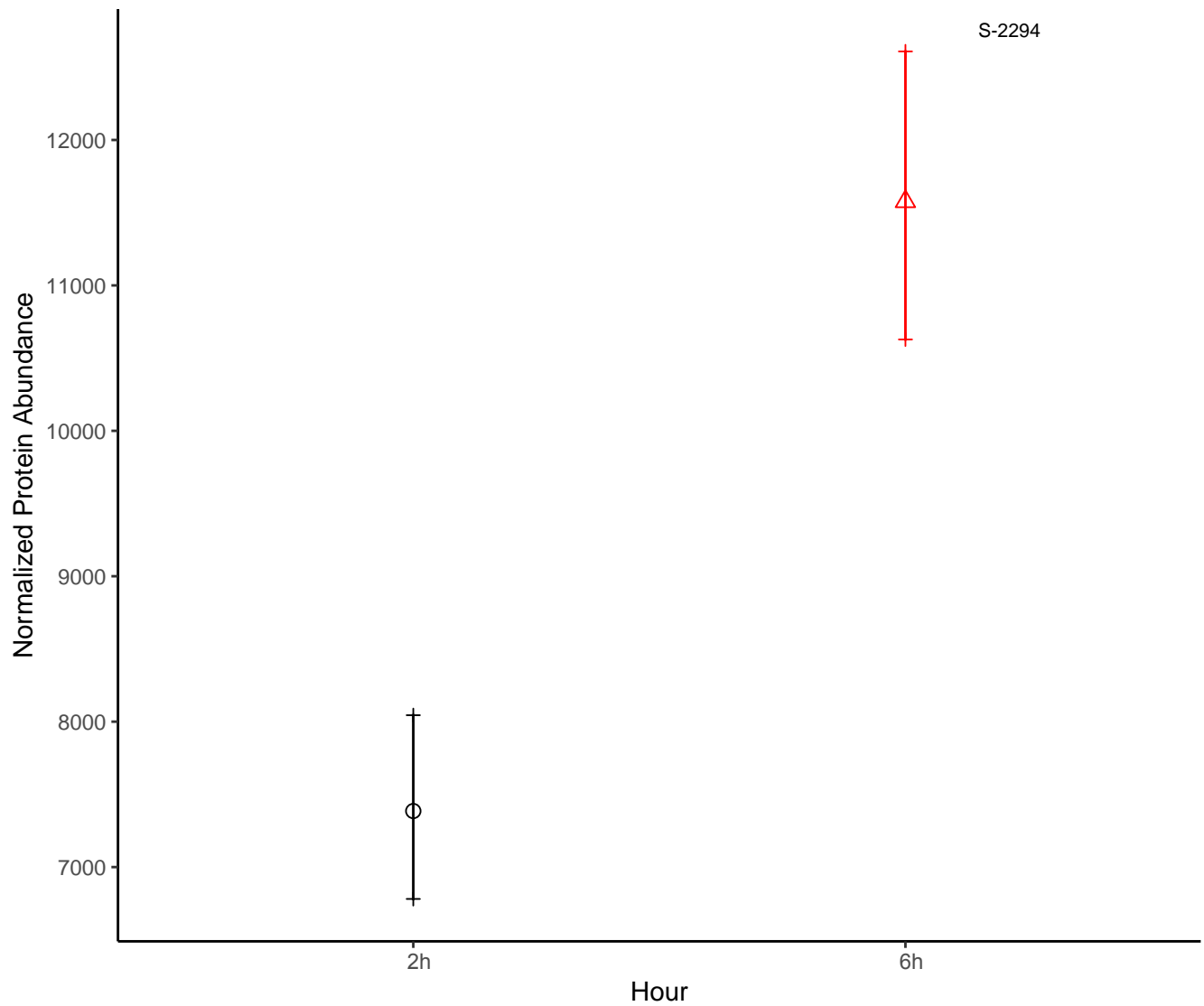
# PURQ\_STAAM



# PYRB\_STAAM



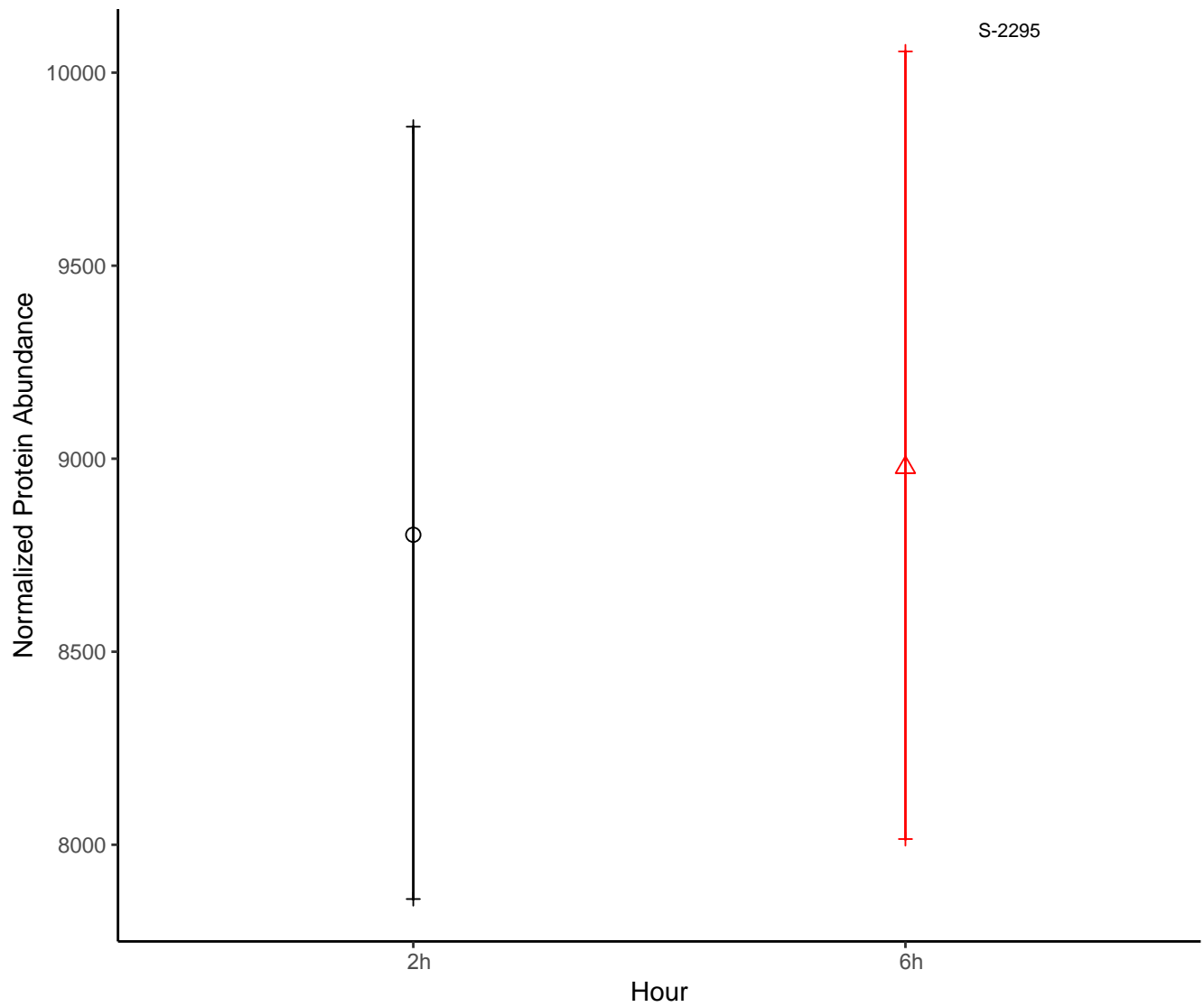
# PYRC\_STAAM



⊕ 2h

△ 6h

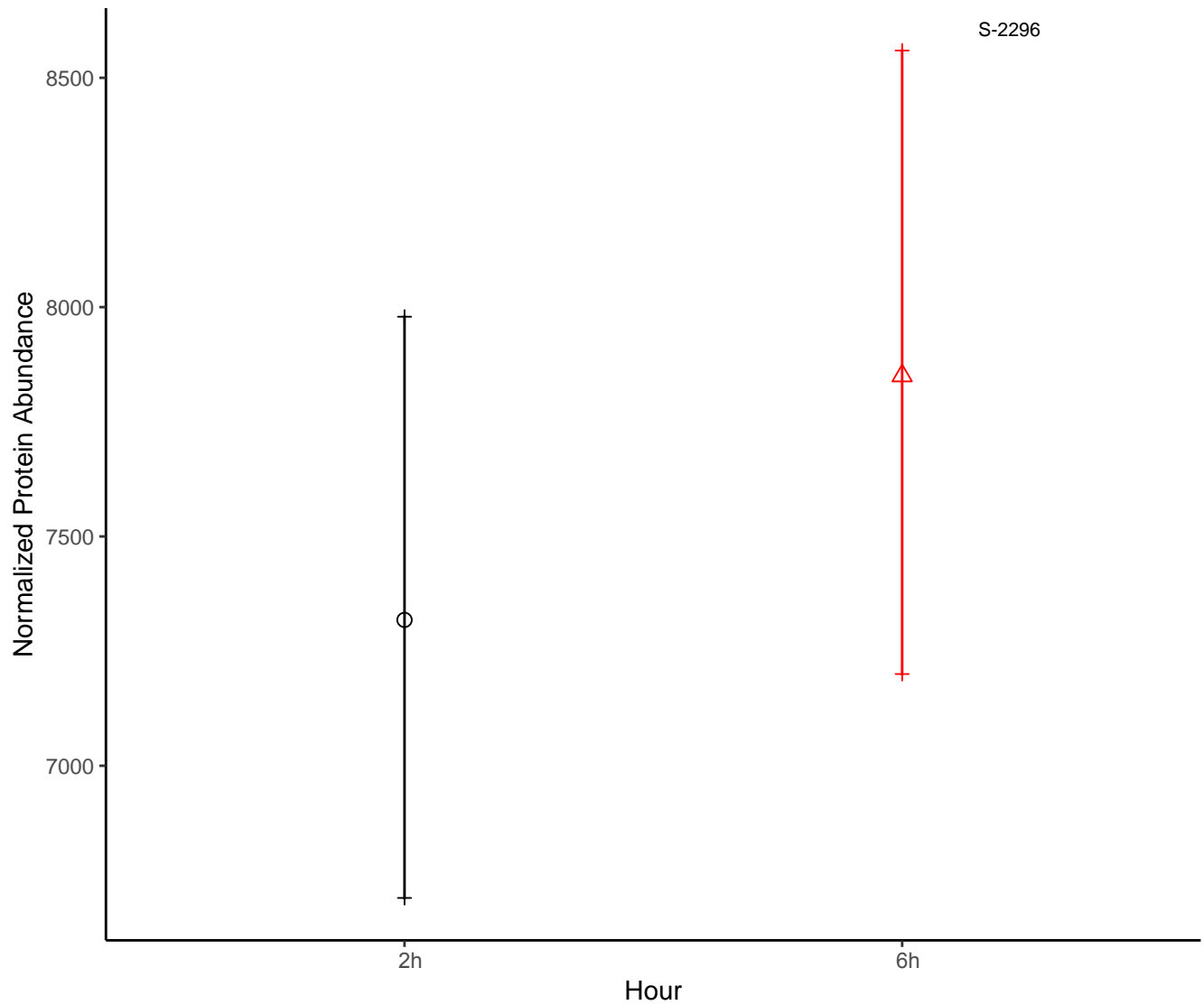
# PYRE\_STAAM



⊕ 2h

△ 6h

# PYRF\_STAAM



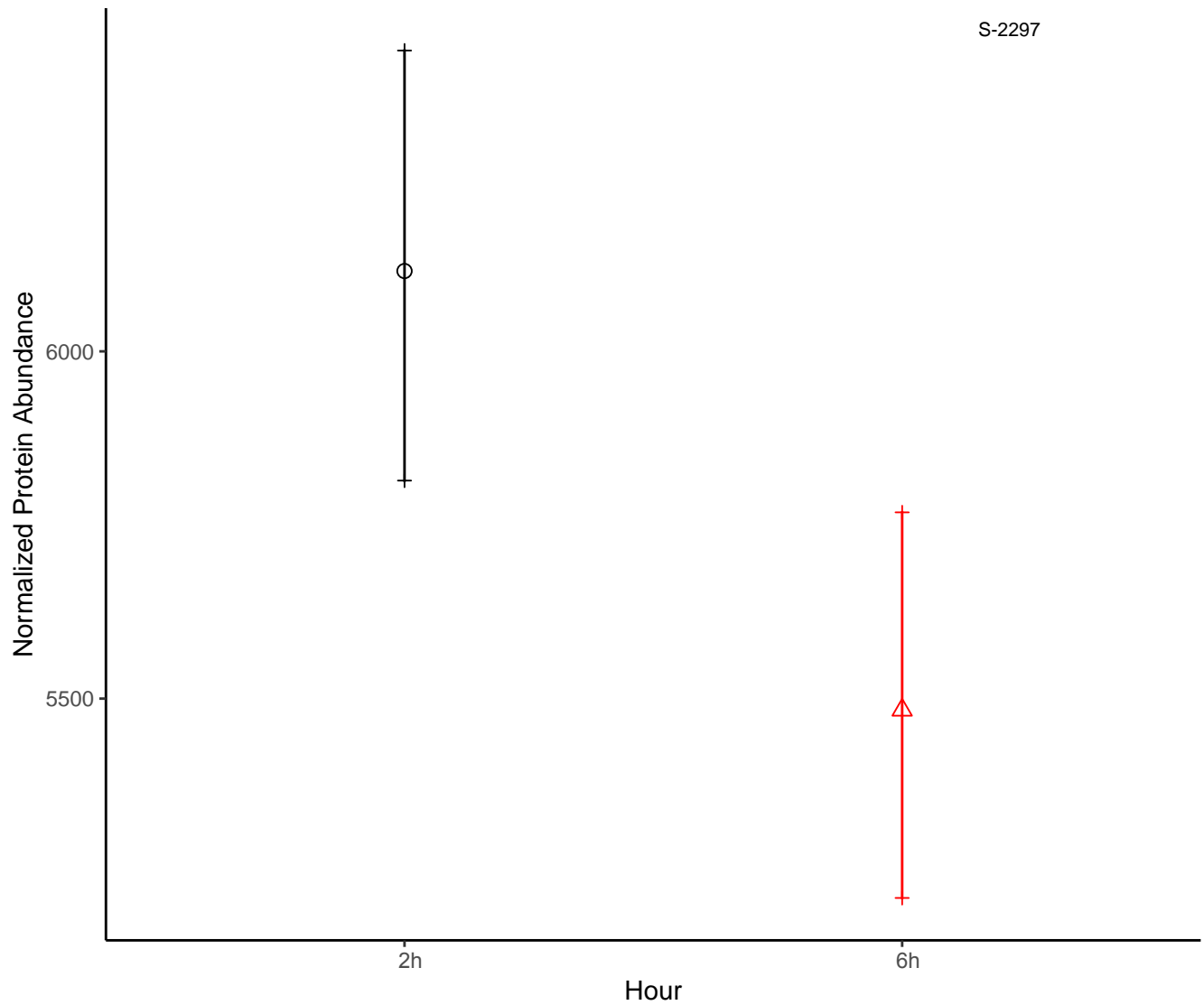
⊕ 2h

△ 6h



# PYRG\_STAAM

S-2297

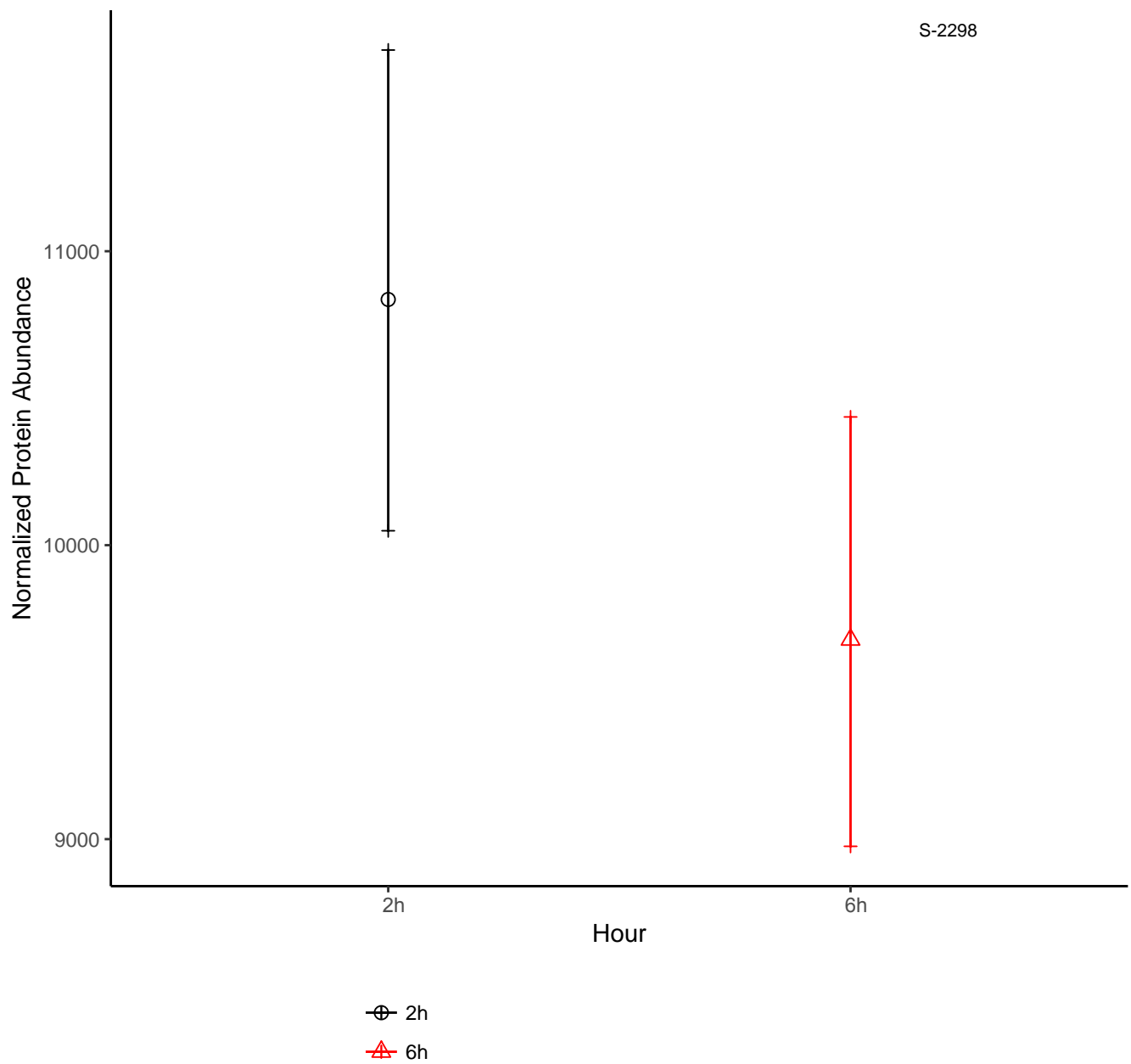


⊕ 2h

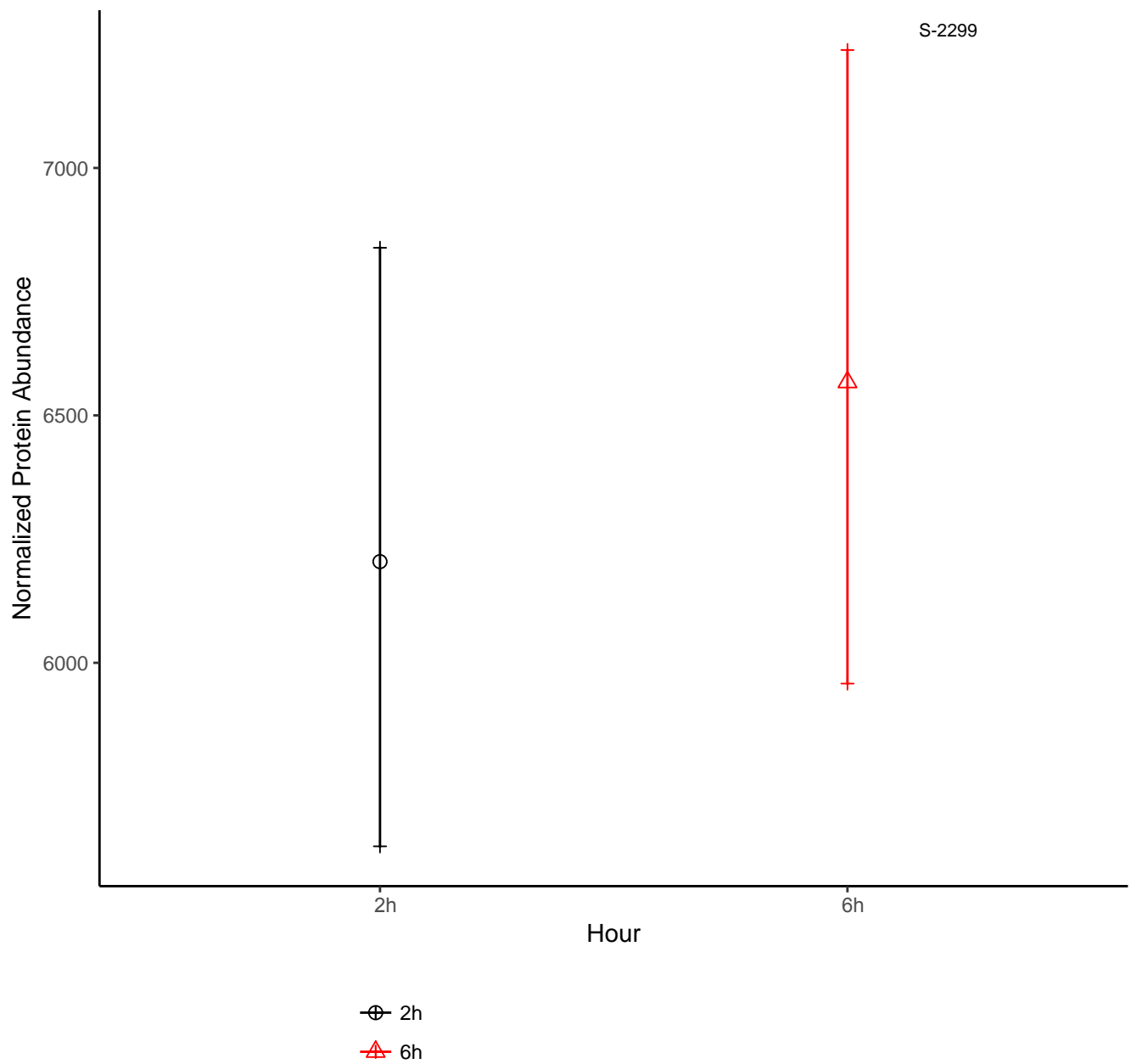
△ 6h

# PYRH\_STAAM

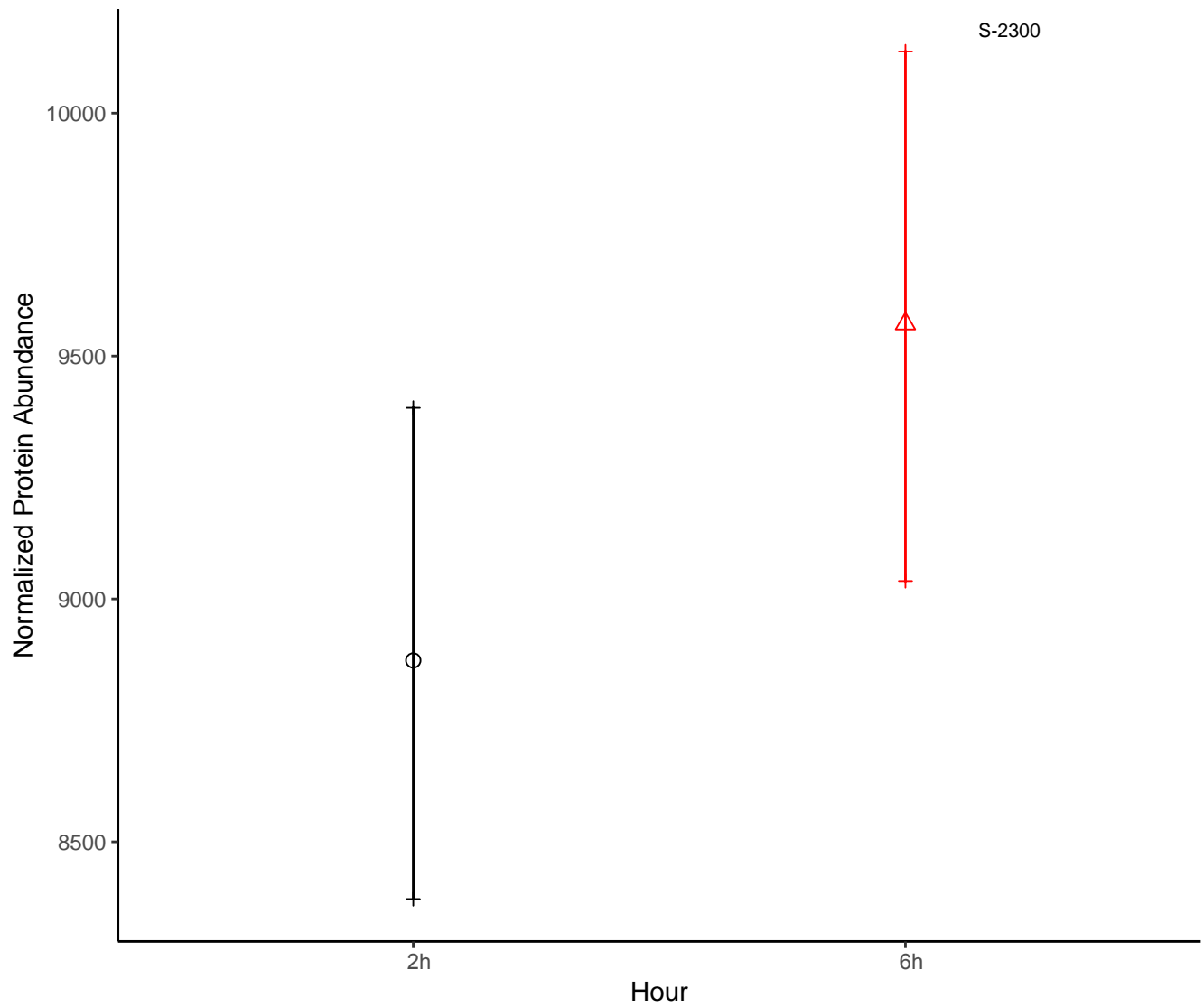
S-2298



# PYRR\_STAAM



# QOX2\_STAAM

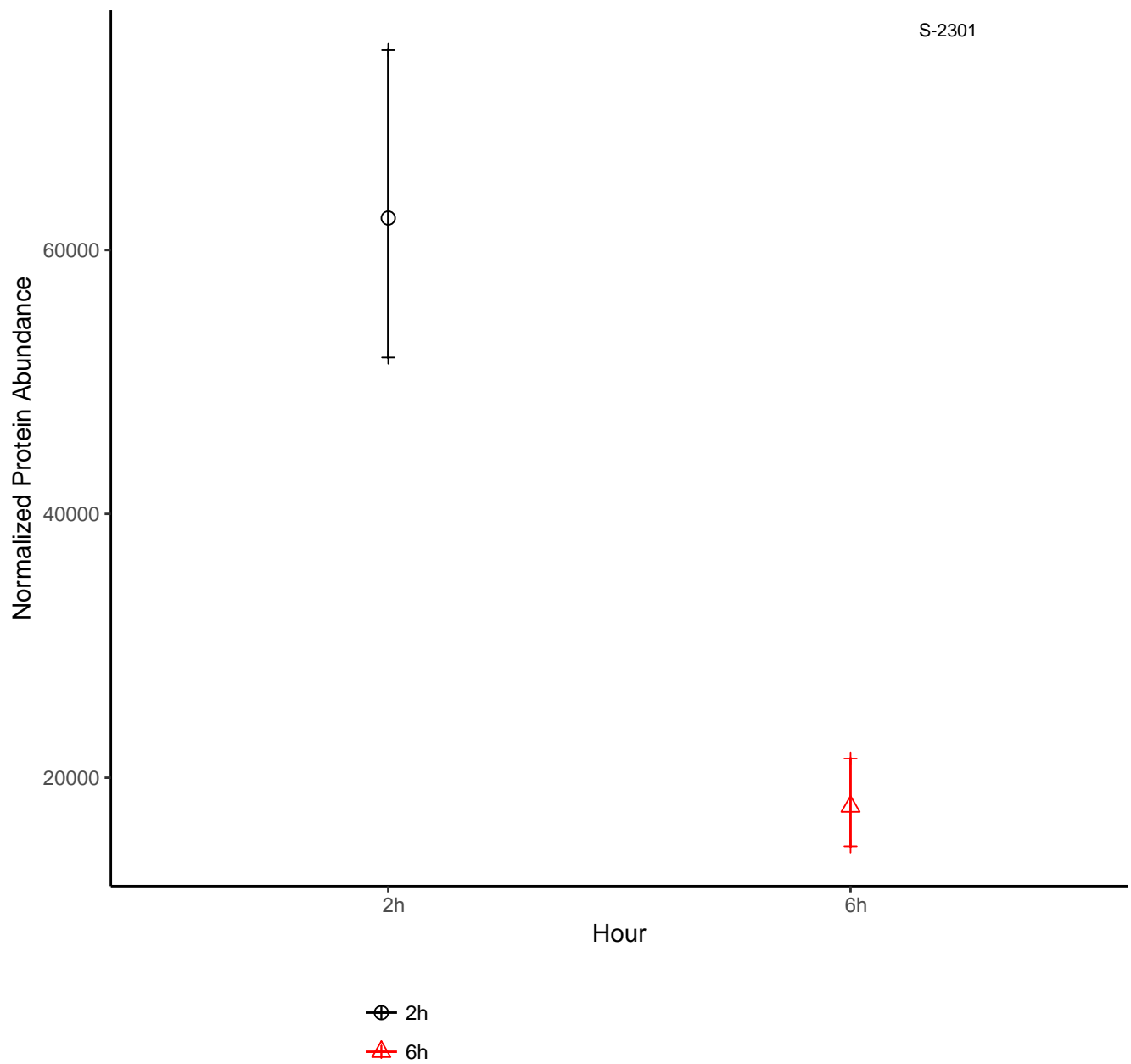


⊕ 2h

△ 6h

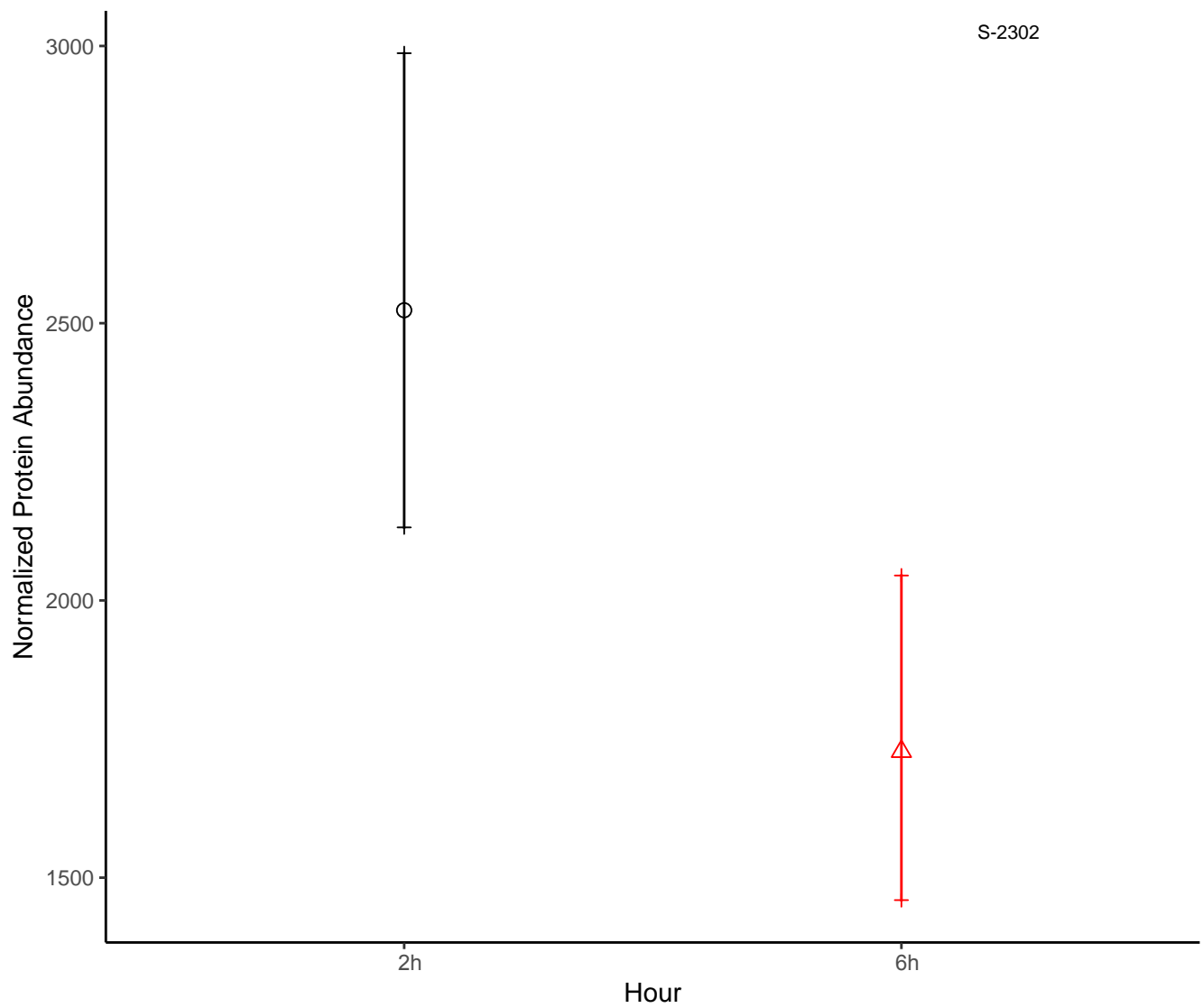
# QUEA\_STAAM

S-2301



# QUEC\_STAAM

S-2302

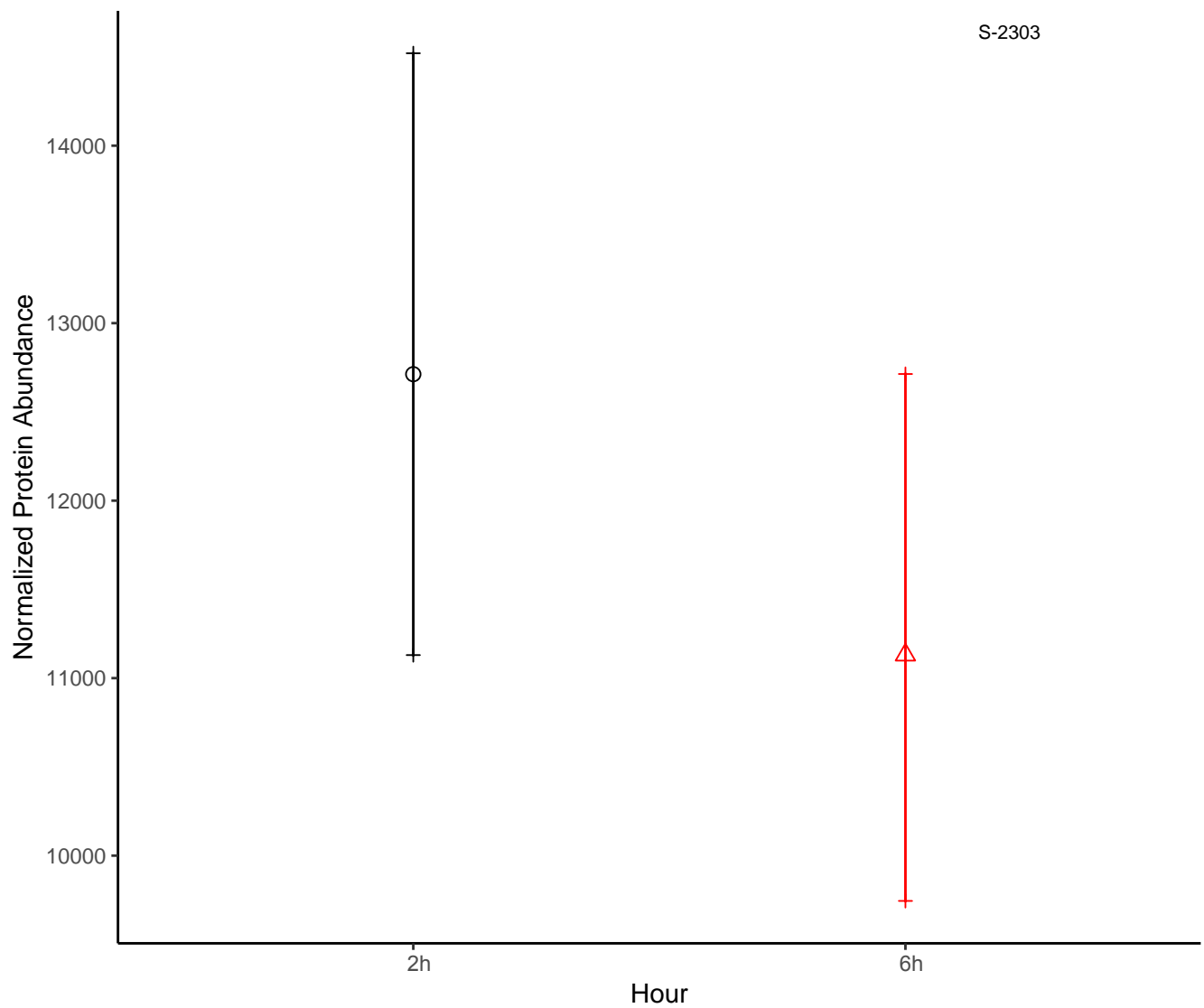


⊕ 2h

△ 6h

# RBFA\_STAAM

S-2303

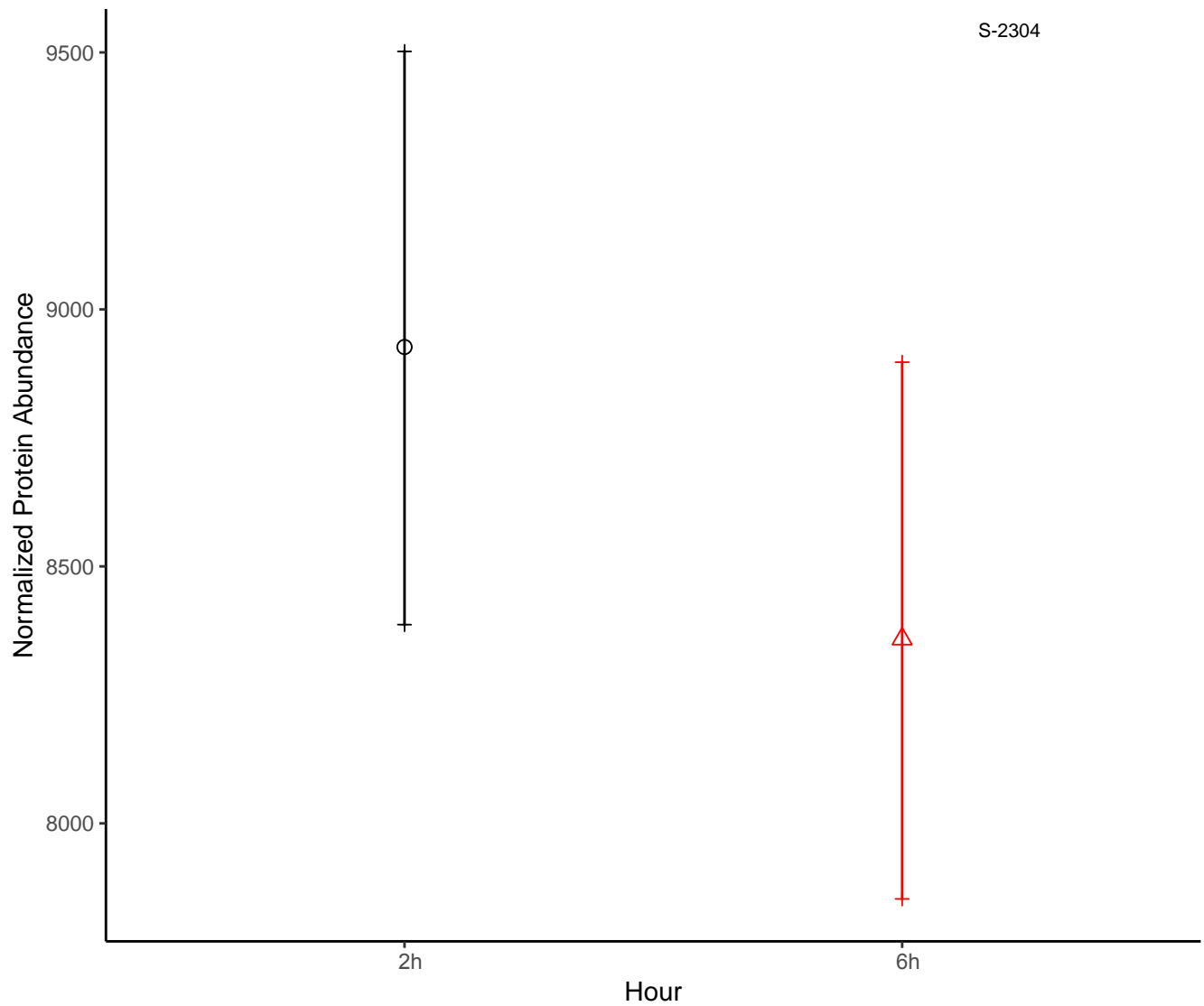


⊕ 2h

△ 6h

# RECA\_STAAM

S-2304

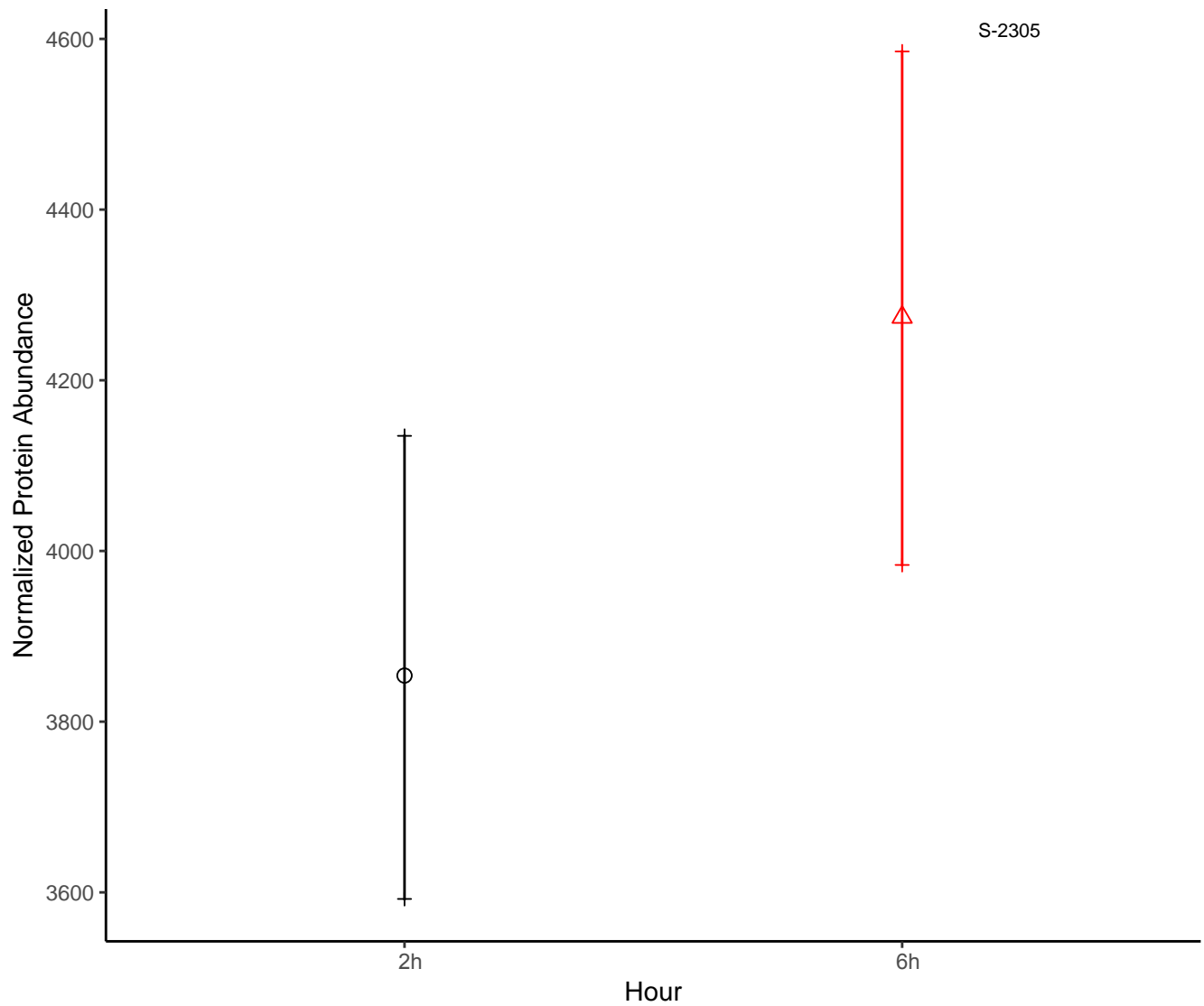


⊕ 2h

△ 6h



# RELA\_STAAM

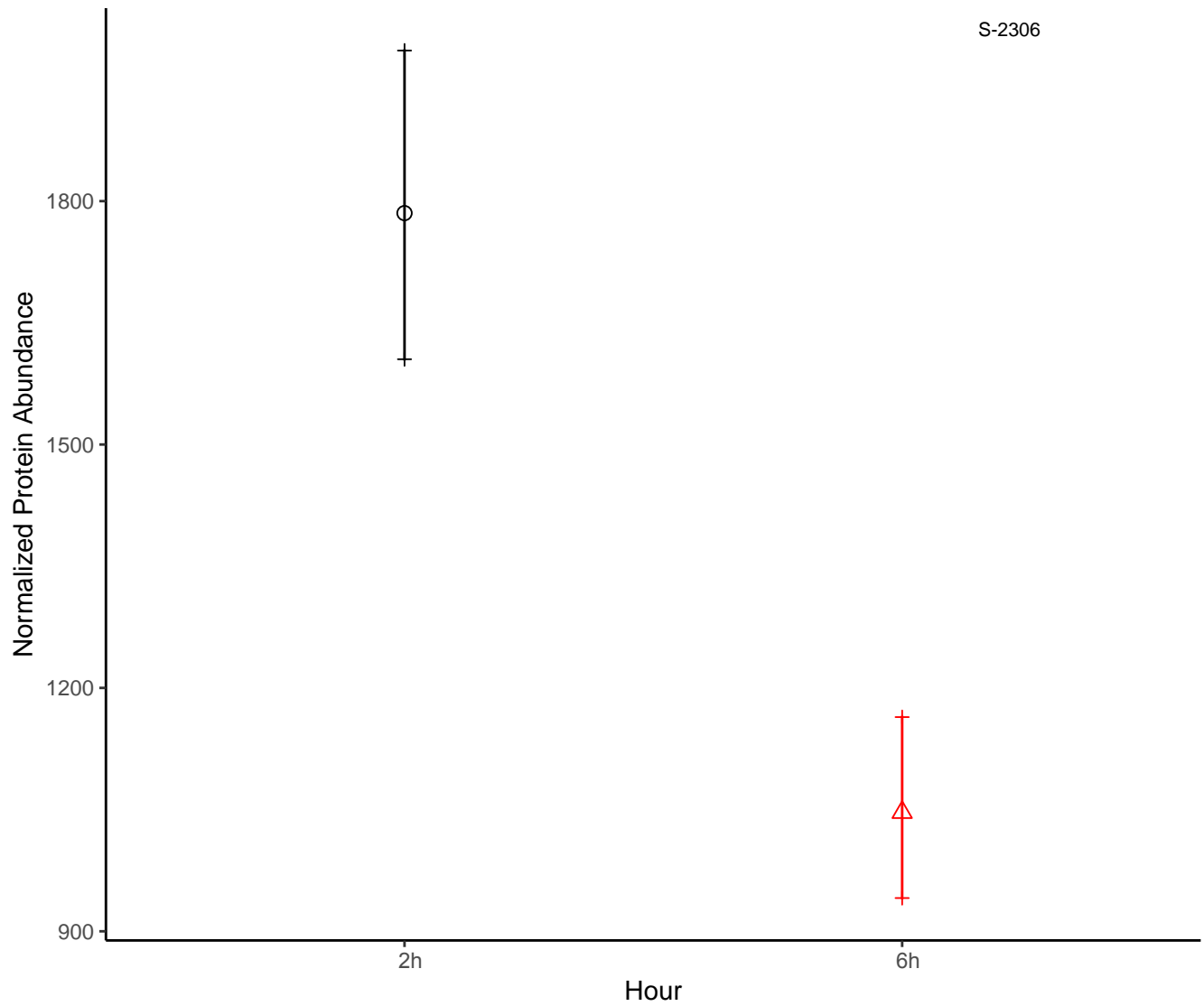


⊕ 2h

△ 6h

# REX\_STAAM

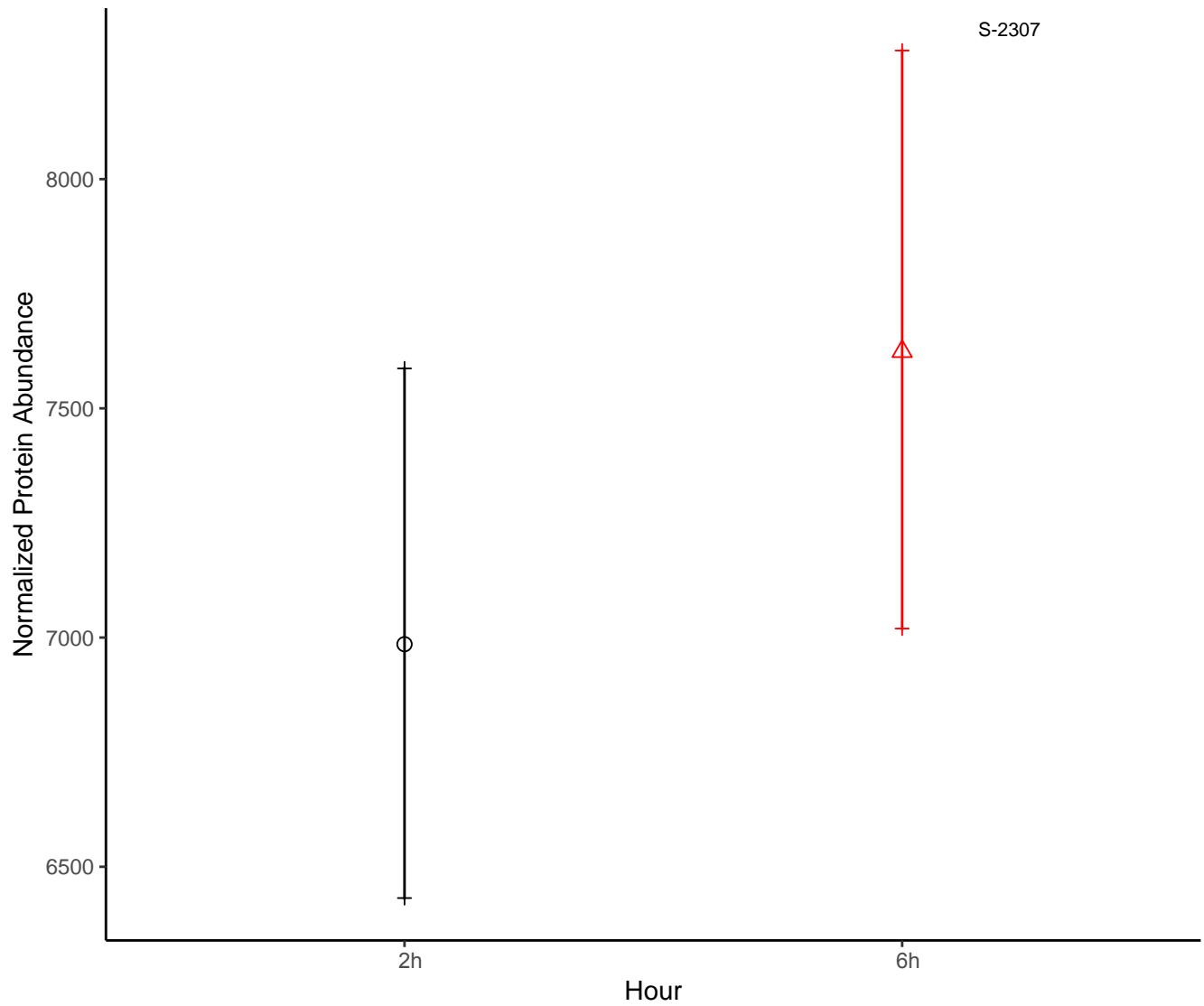
S-2306



⊕ 2h

△ 6h

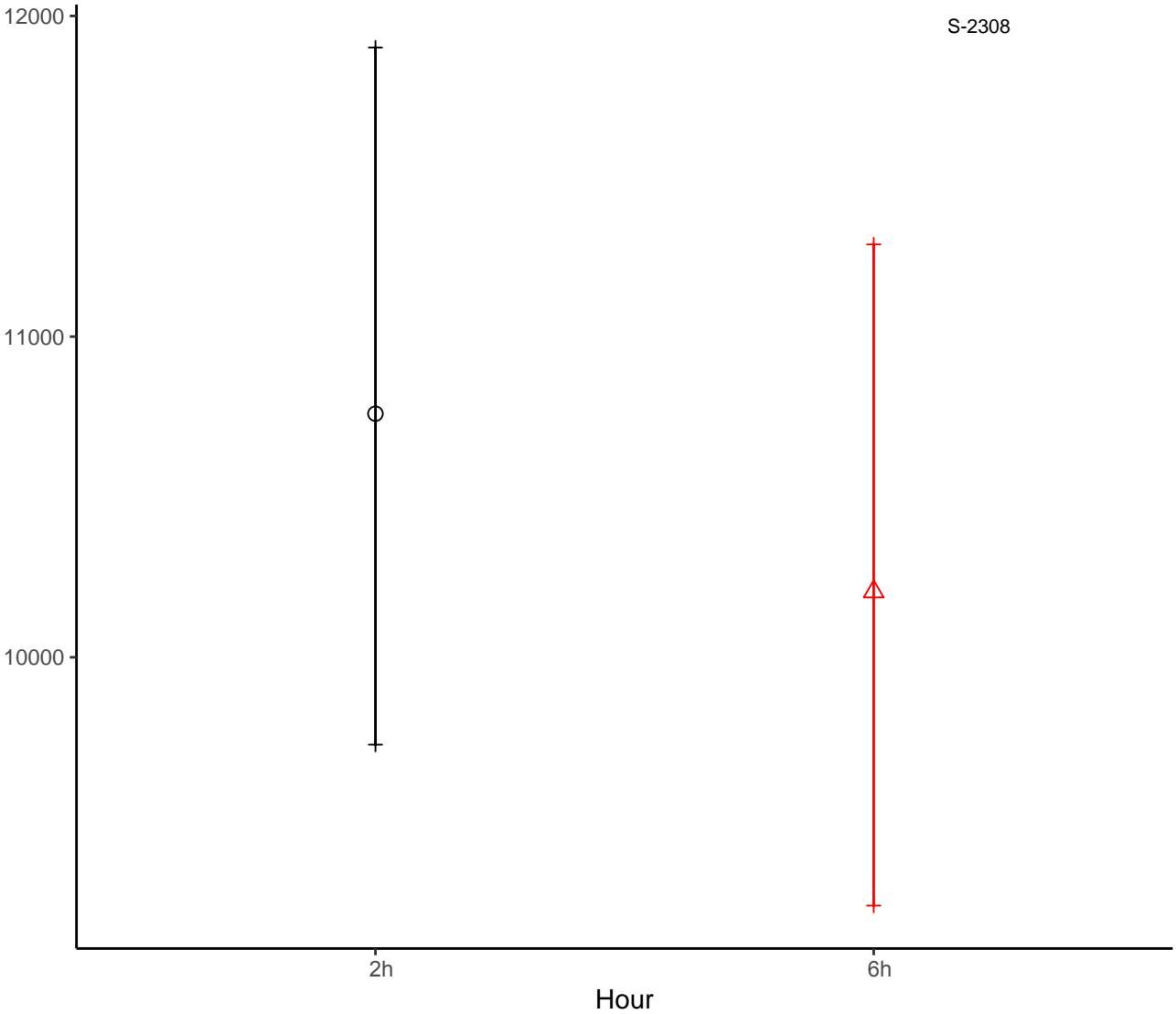
# RF1\_STAAM



⊕ 2h

△ 6h

# RIBBA\_STAAM

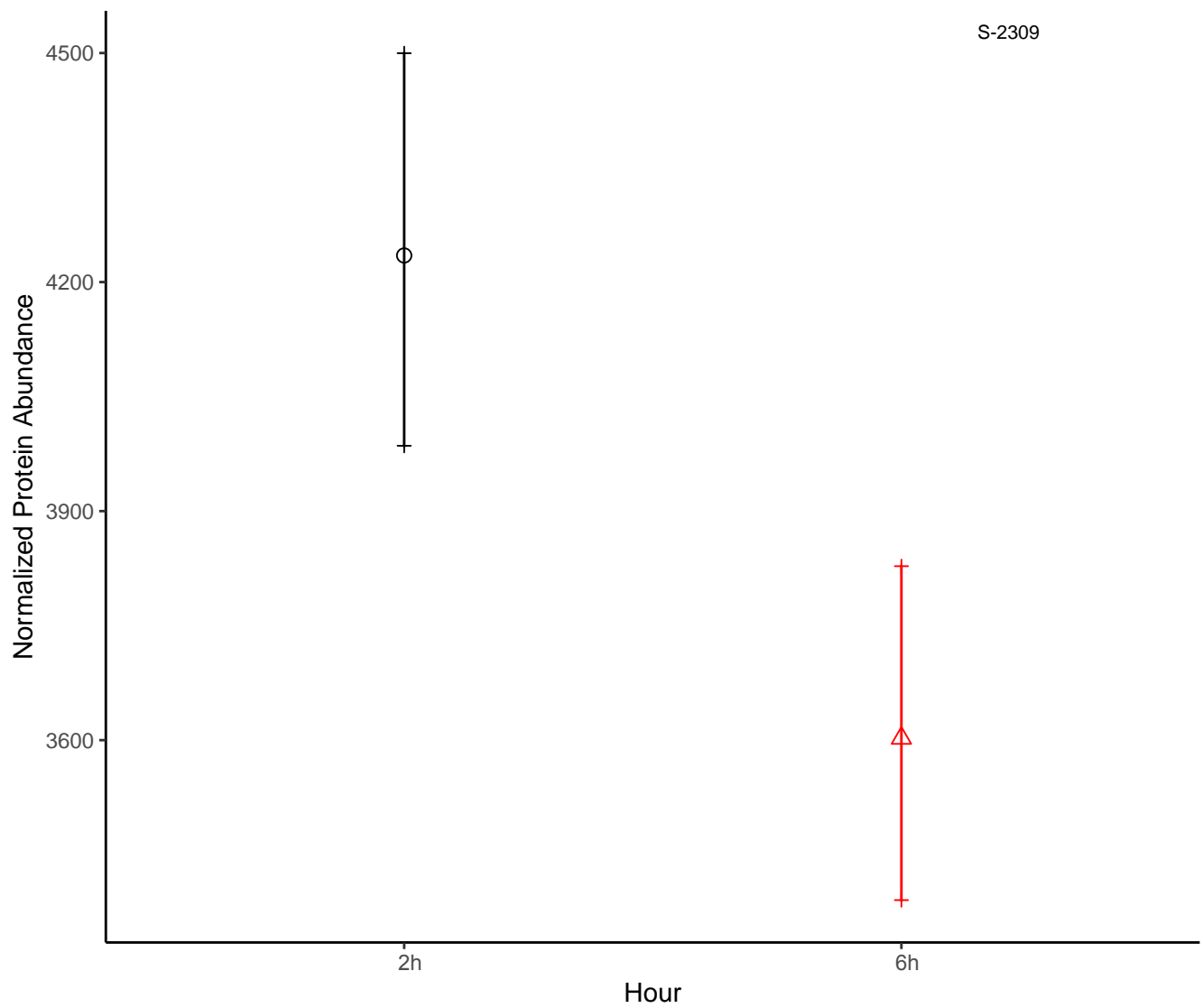


⊕ 2h

△ 6h

# RIMM\_STAAM

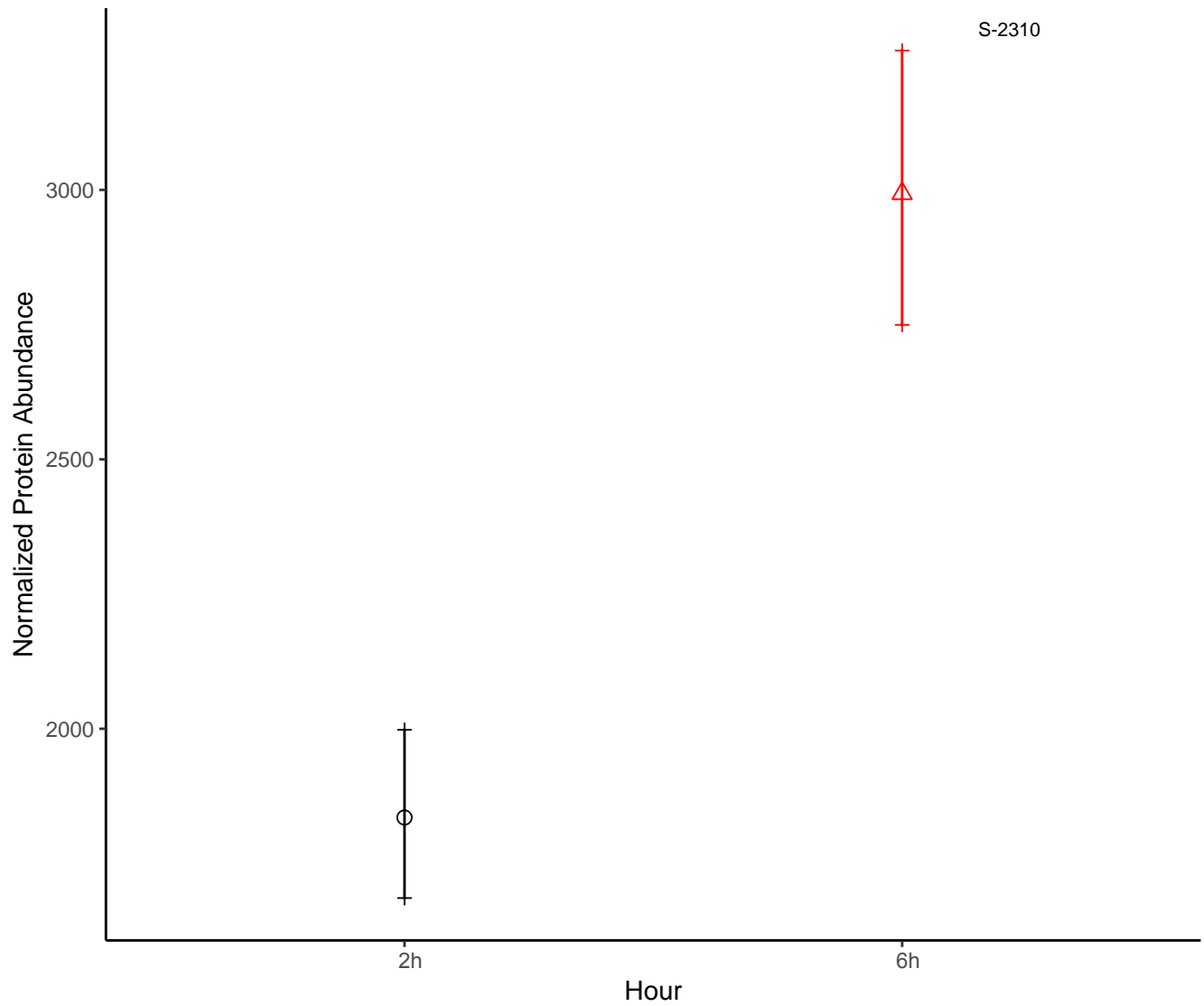
S-2309



⊕ 2h

△ 6h

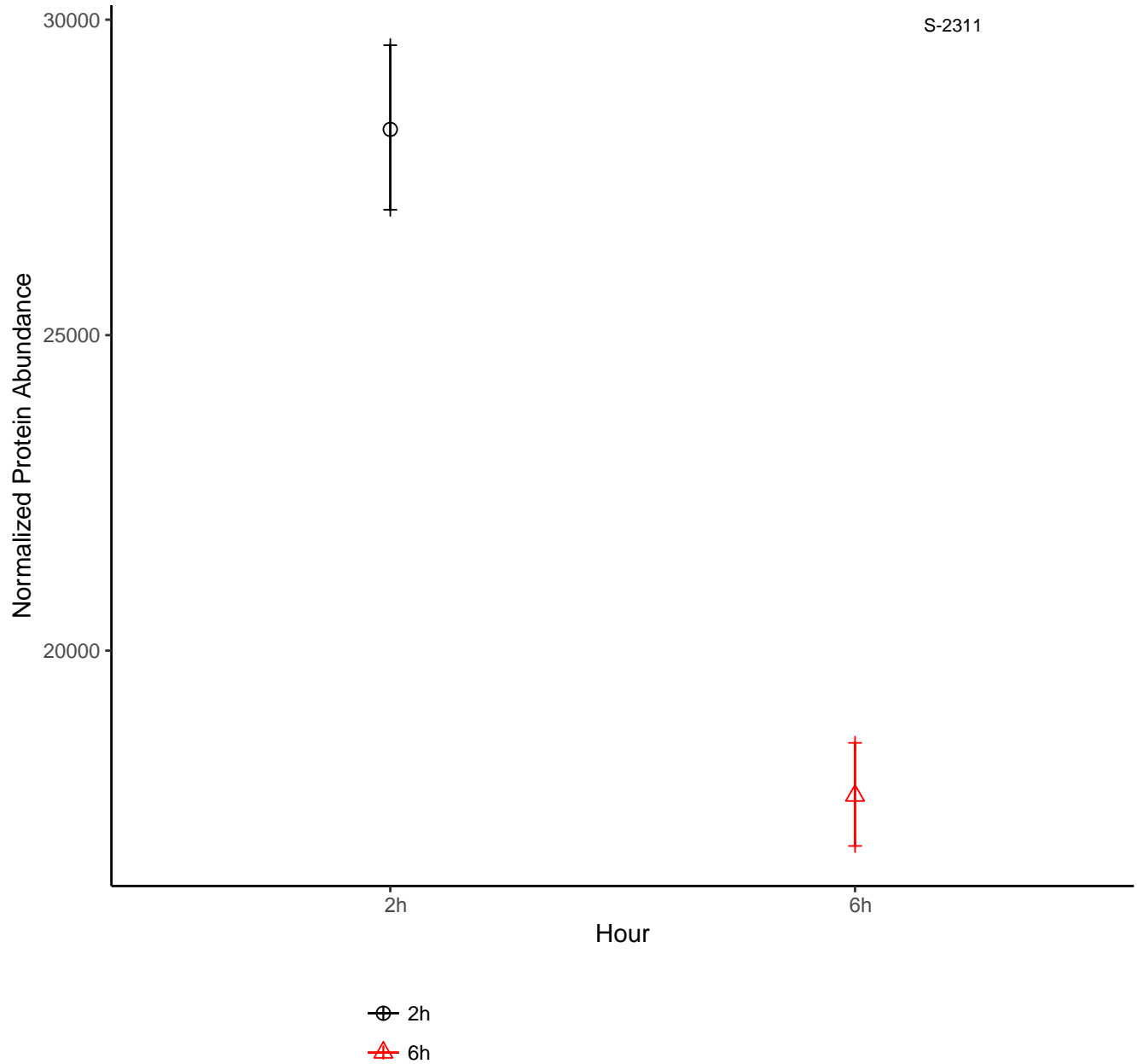
# RISB\_STAAM



⊕ 2h

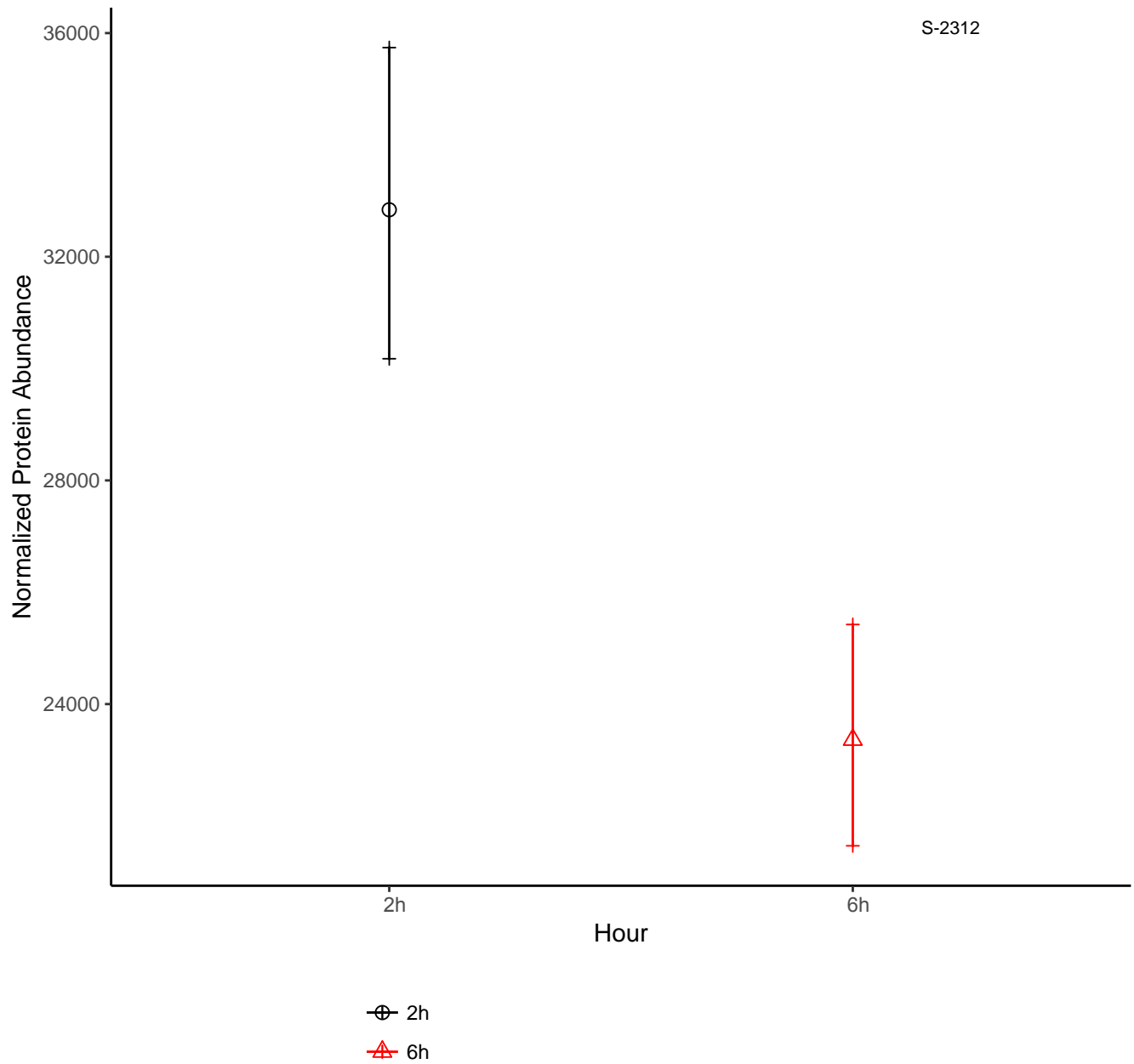
⊕ 6h

# RL1\_STAAM



# RL10\_STAAM

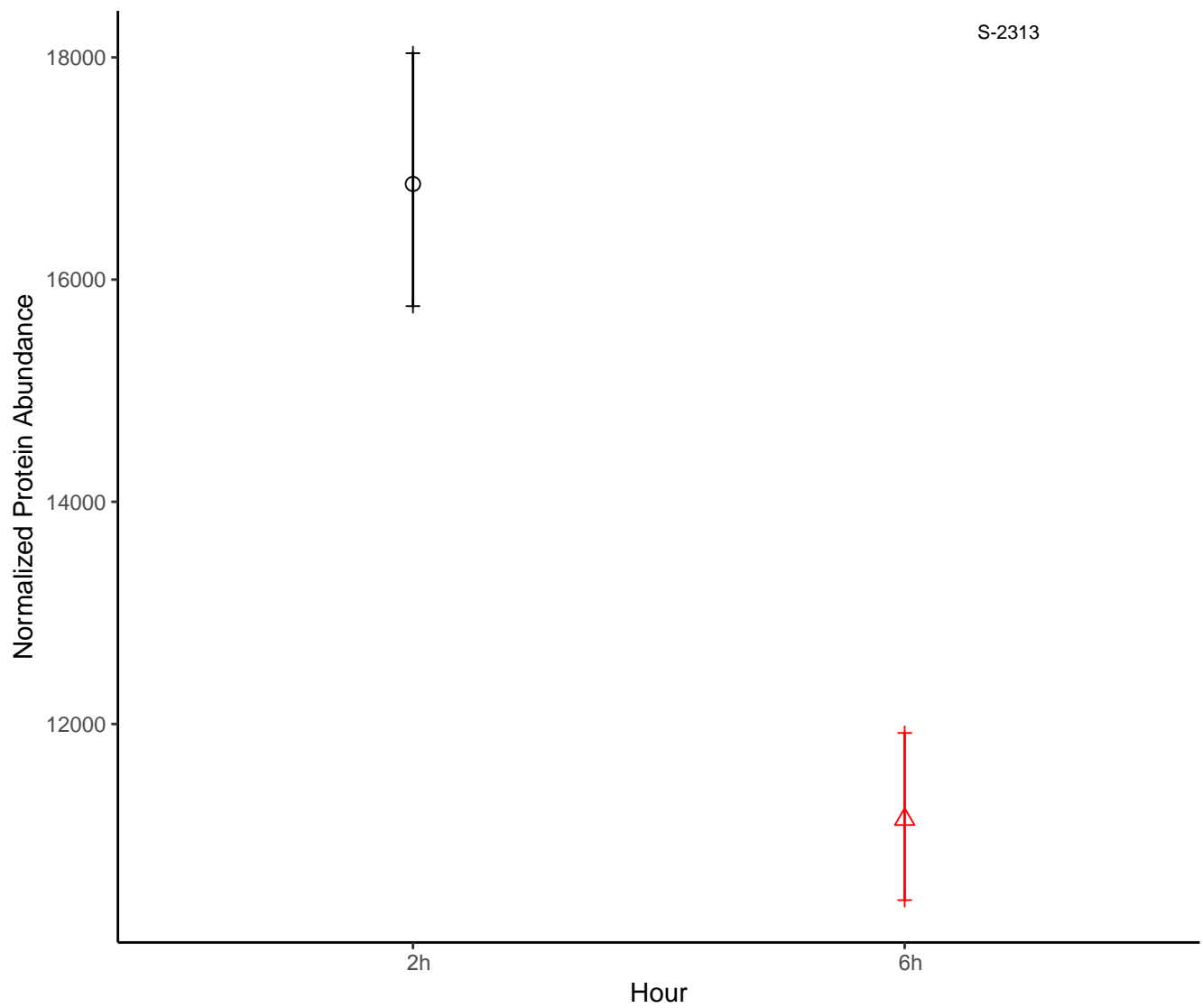
S-2312





# RL11\_STAAM

S-2313

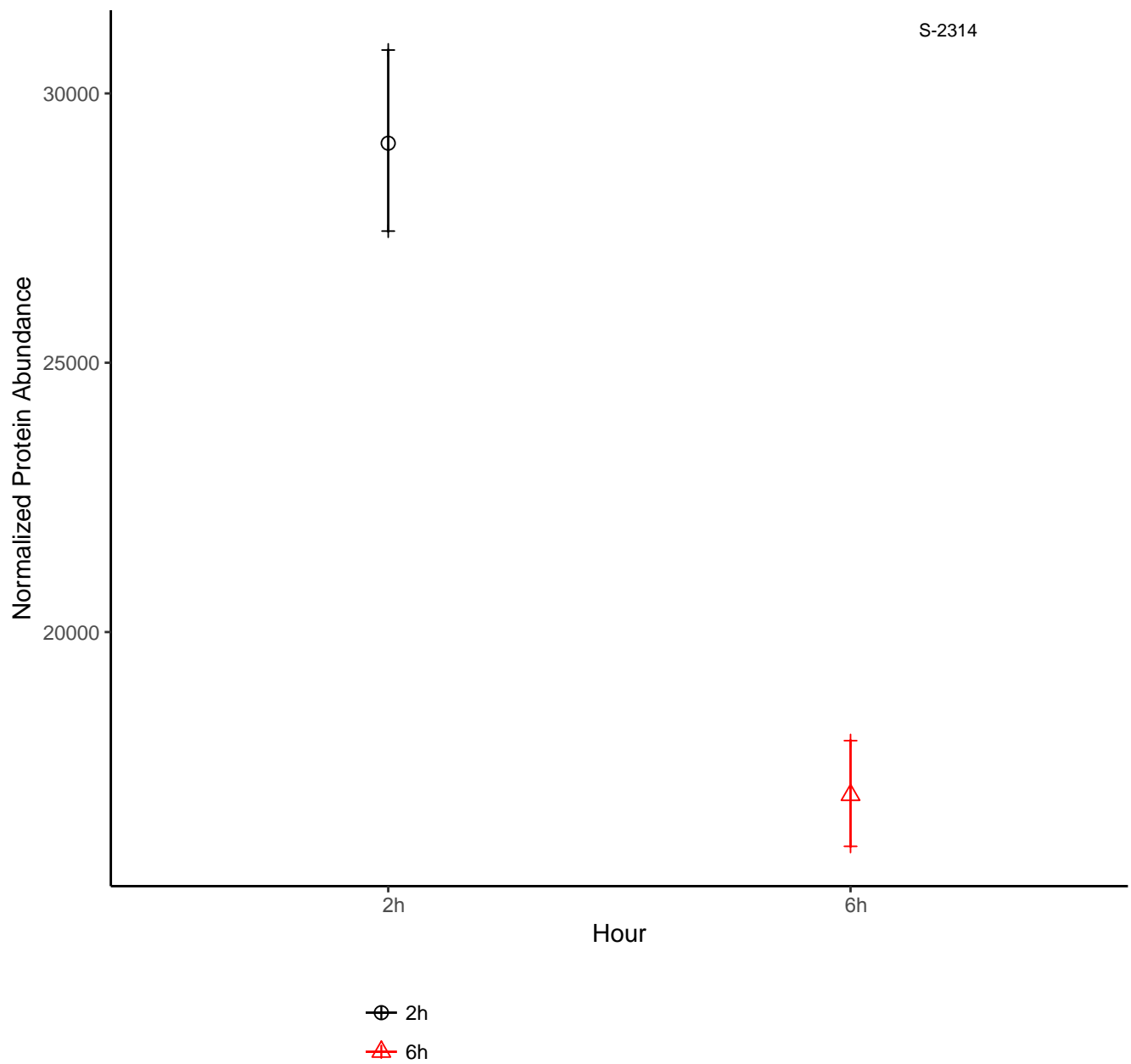


⊕ 2h

△ 6h

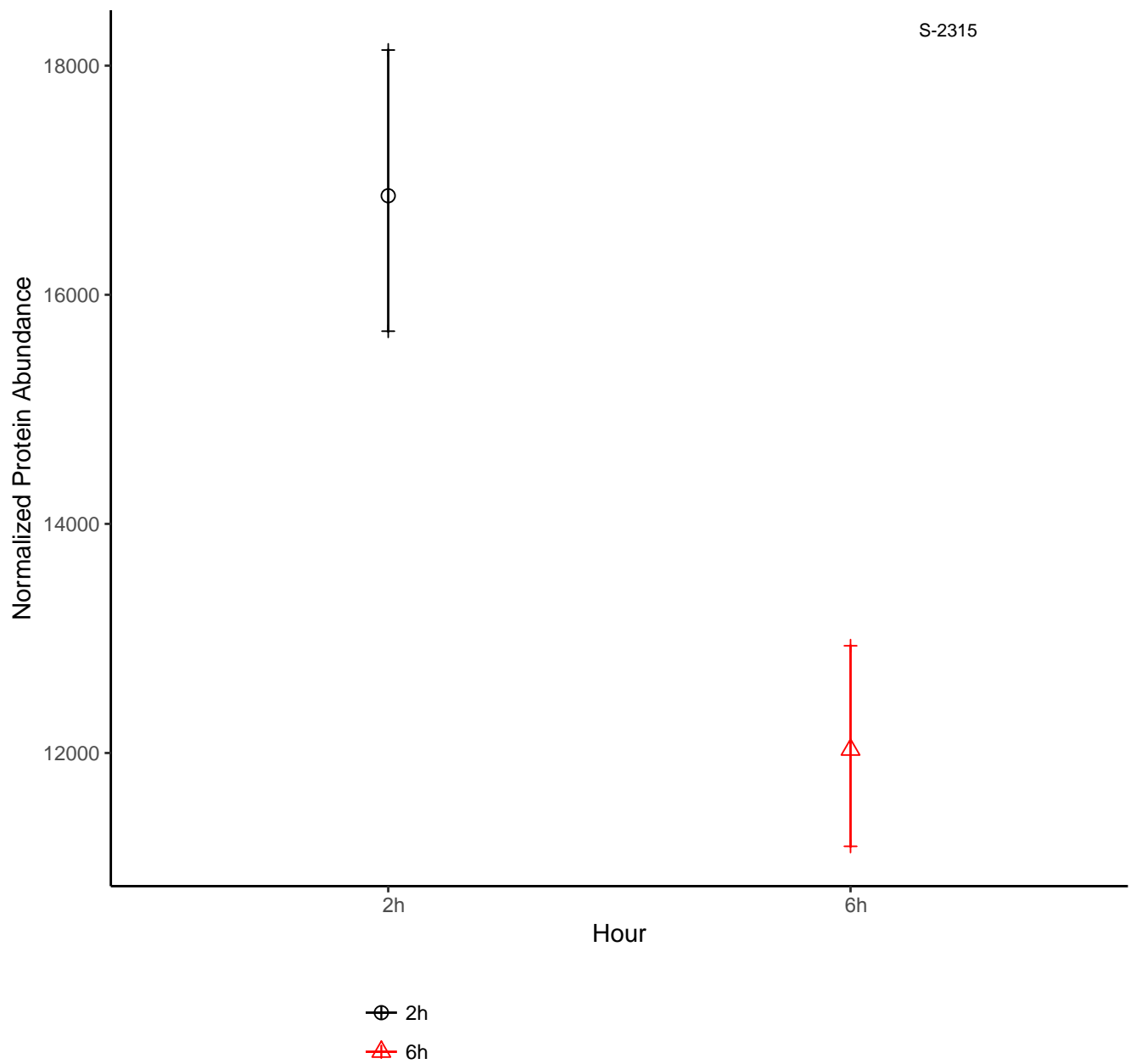
# RL13\_STAAM

S-2314



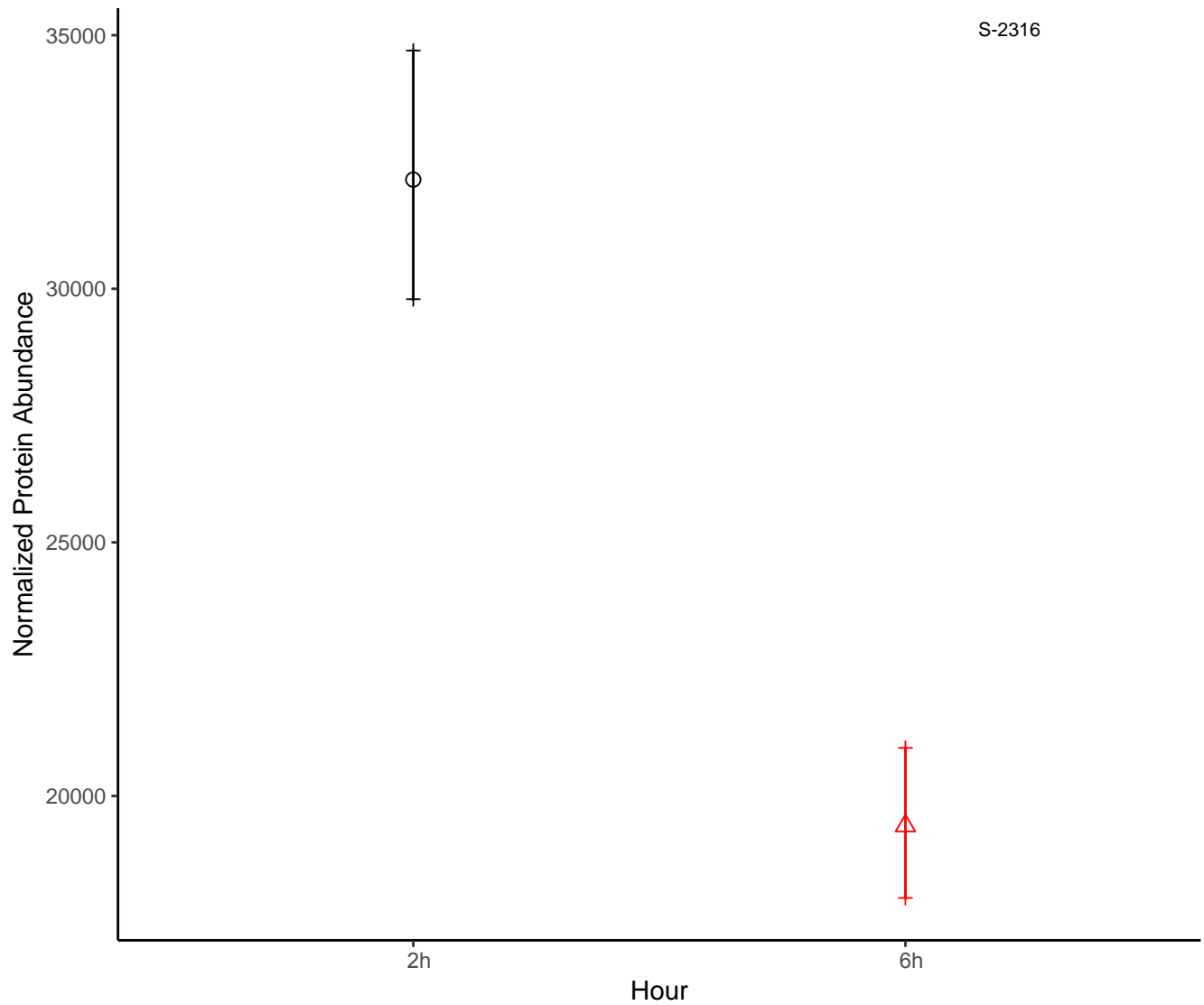
# RL14\_STAAM

S-2315



# RL15\_STAAM

S-2316

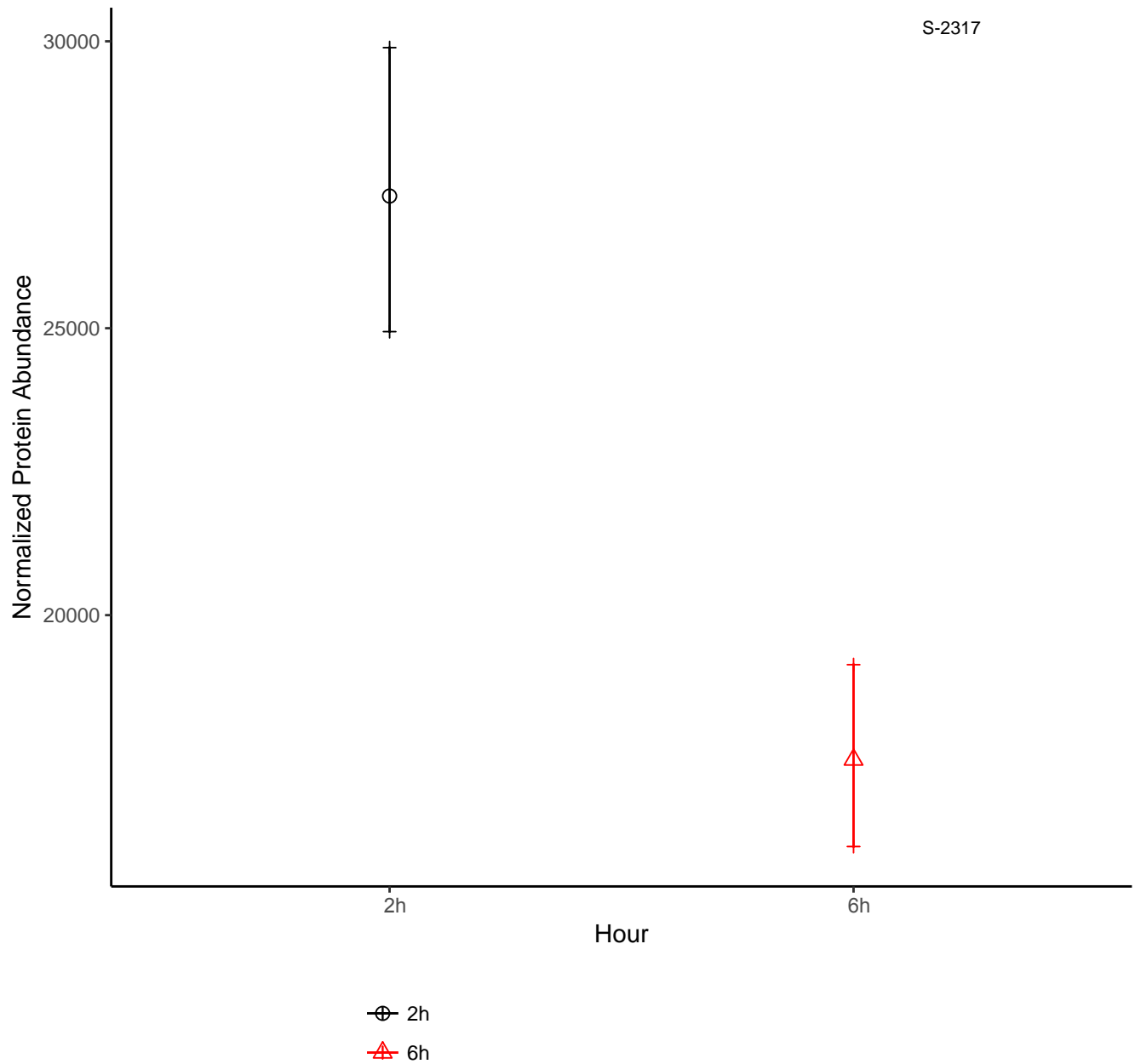


⊕ 2h

△ 6h

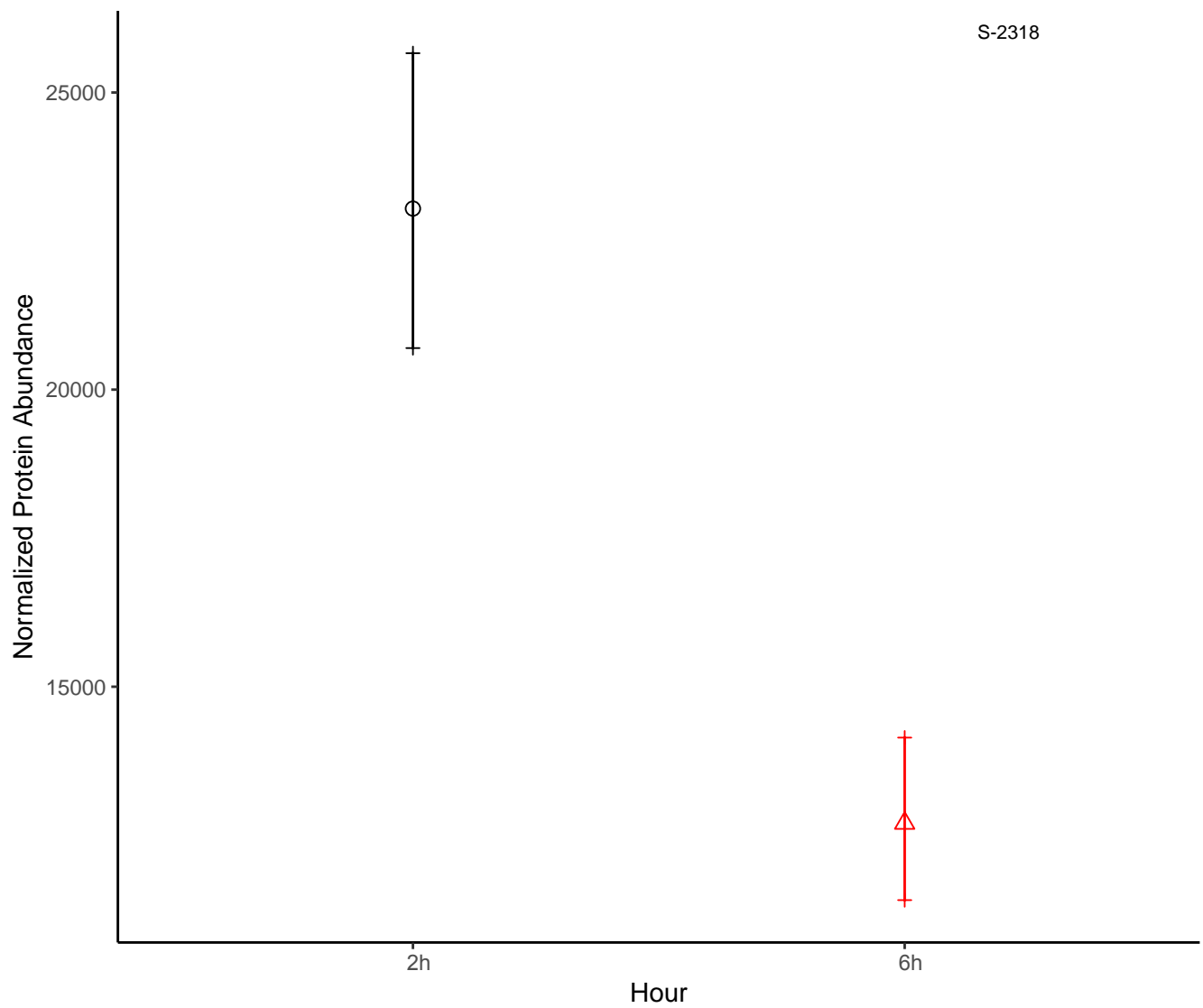
# RL16\_STAAM

S-2317



# RL17\_STAAM

S-2318

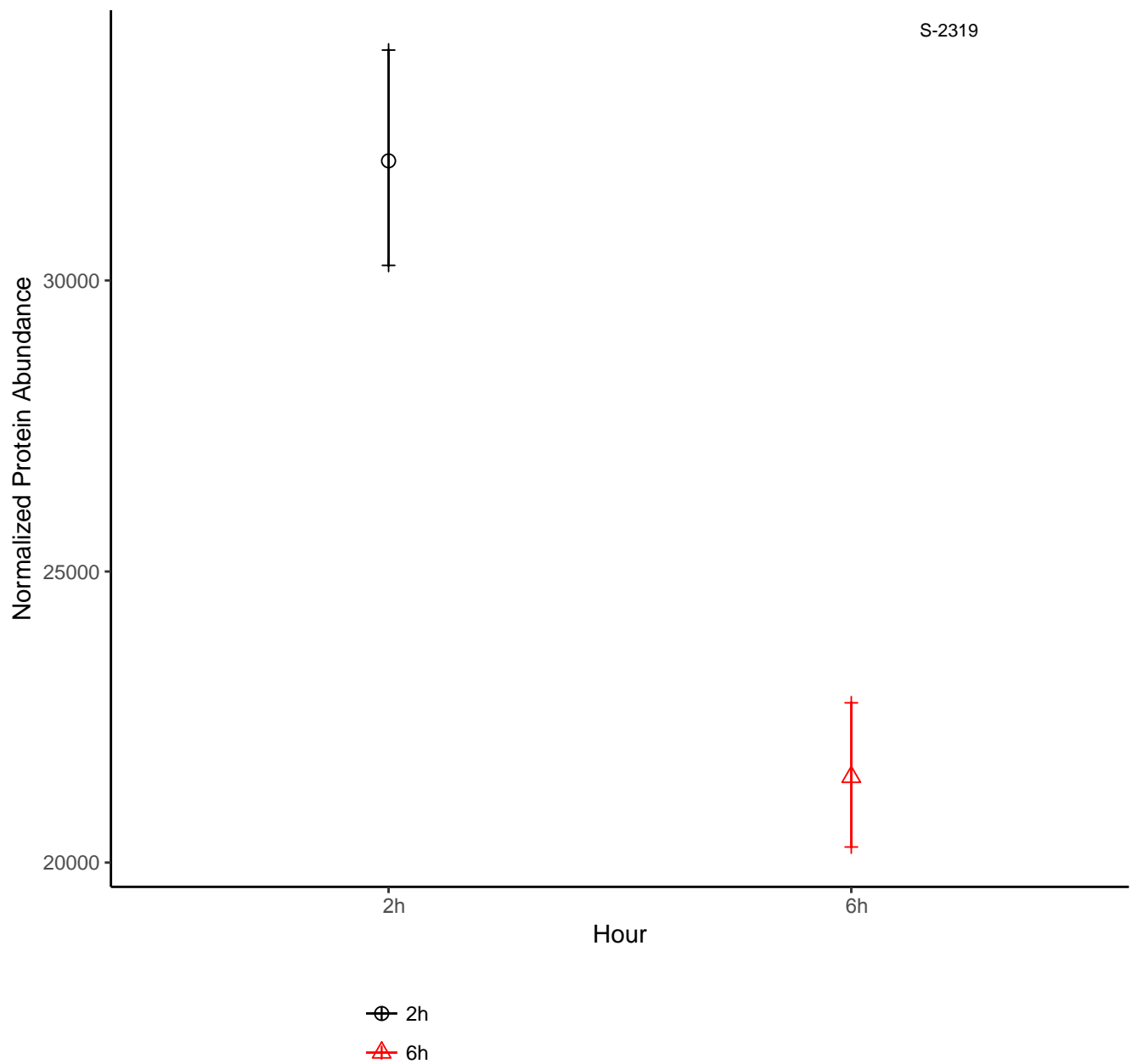


⊕ 2h

△ 6h

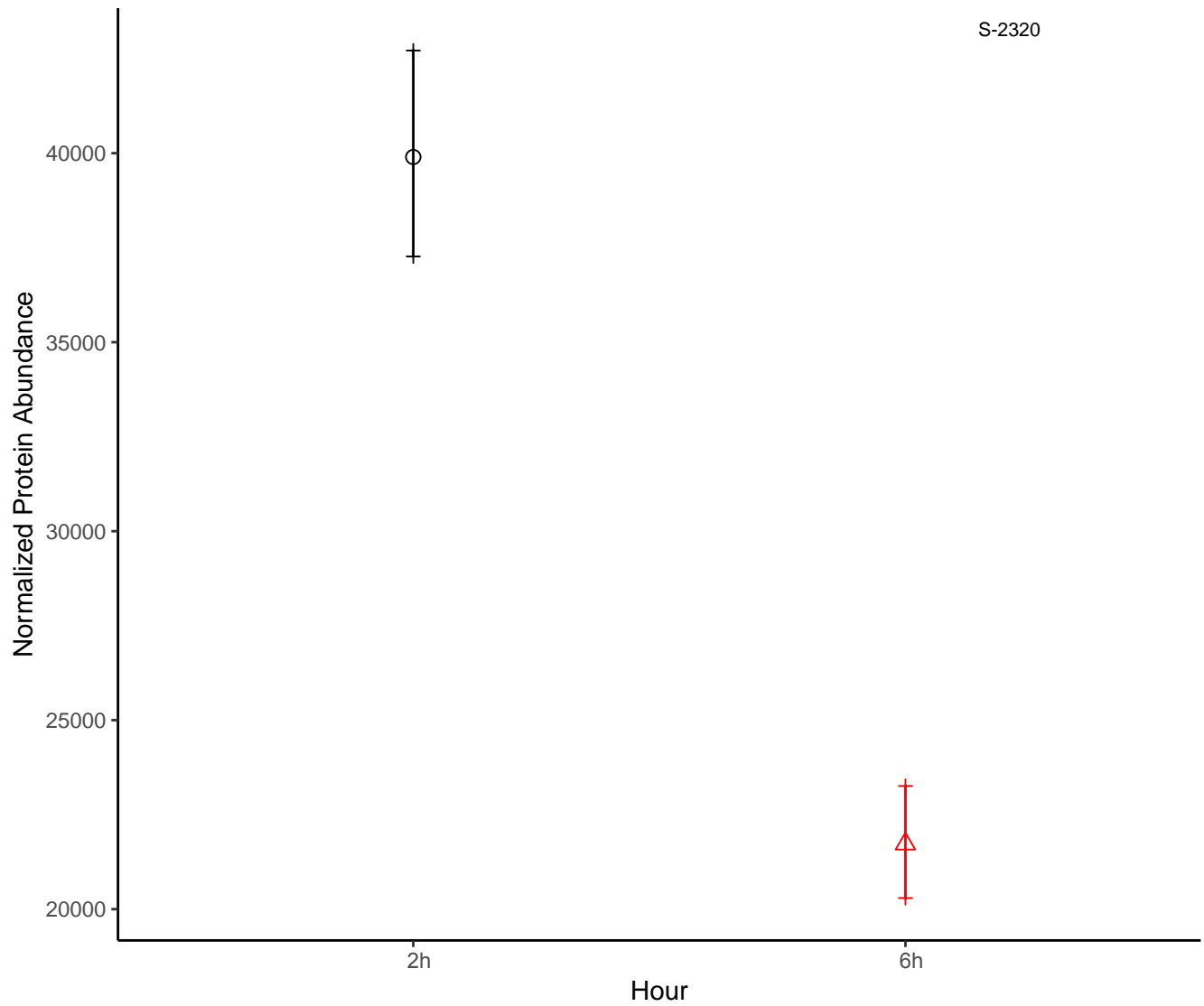
# RL18\_STAAM

S-2319



# RL19\_STAAM

S-2320



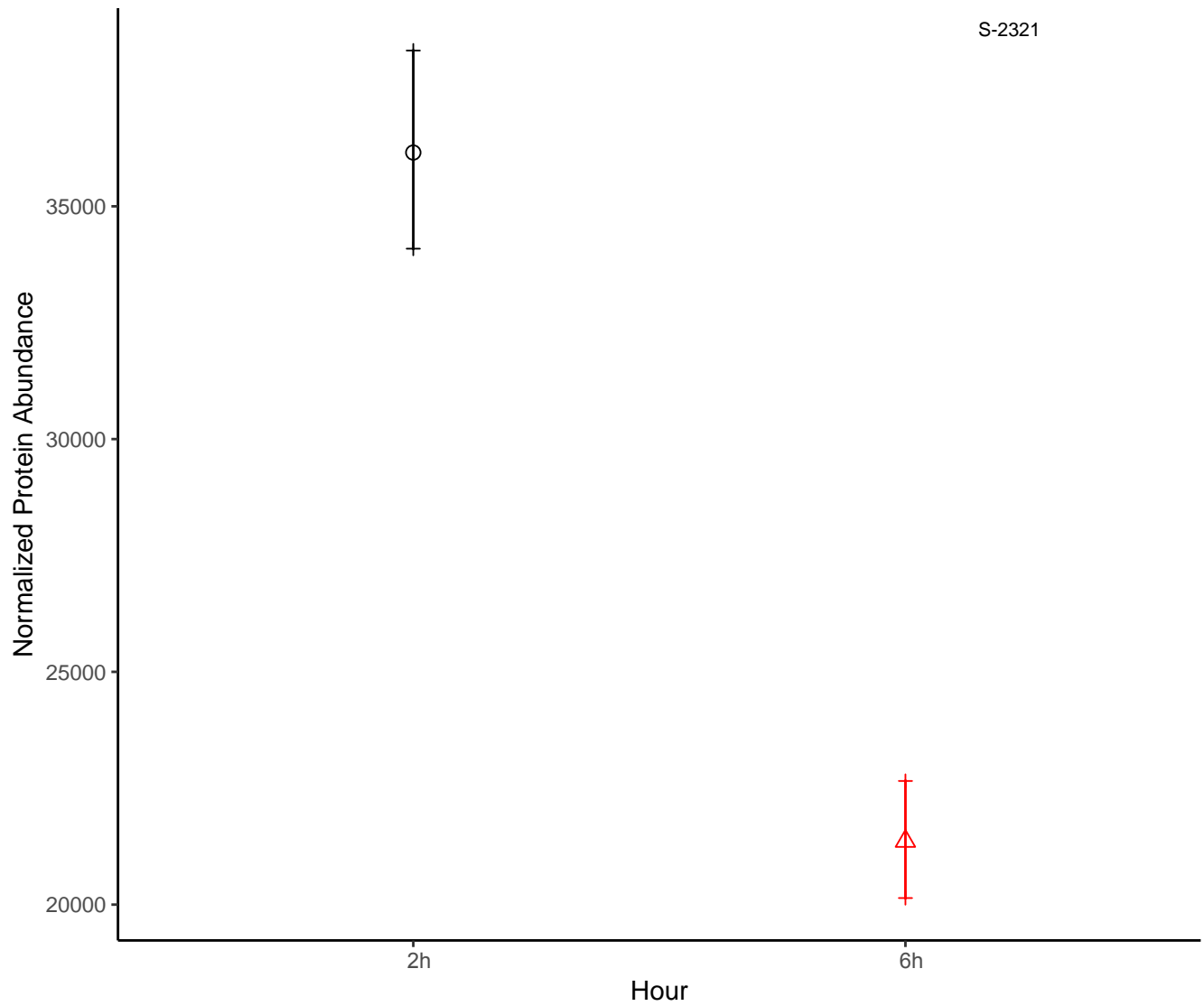
⊕ 2h

△ 6h



# RL2\_STAAM

S-2321

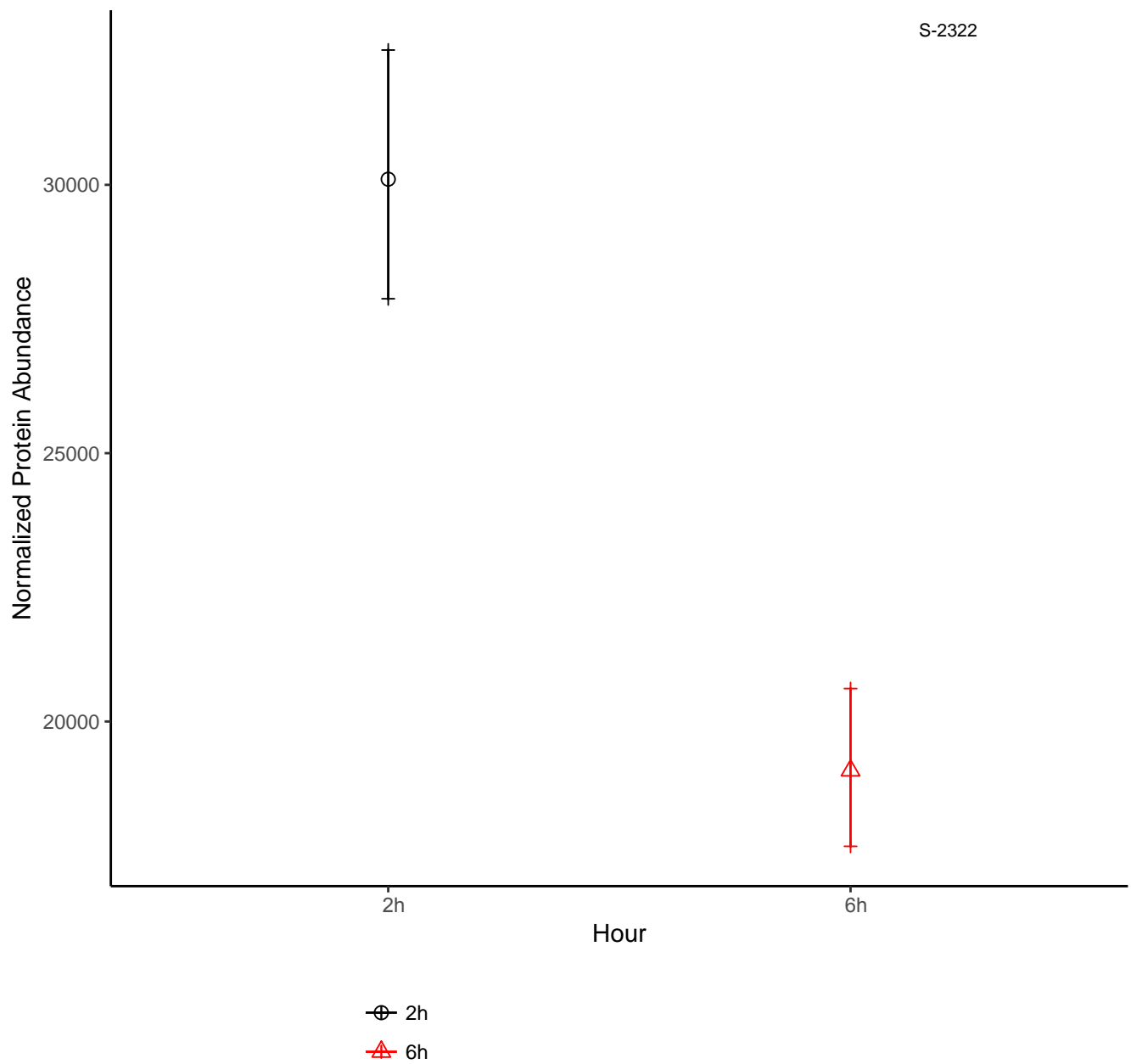


⊕ 2h

△ 6h

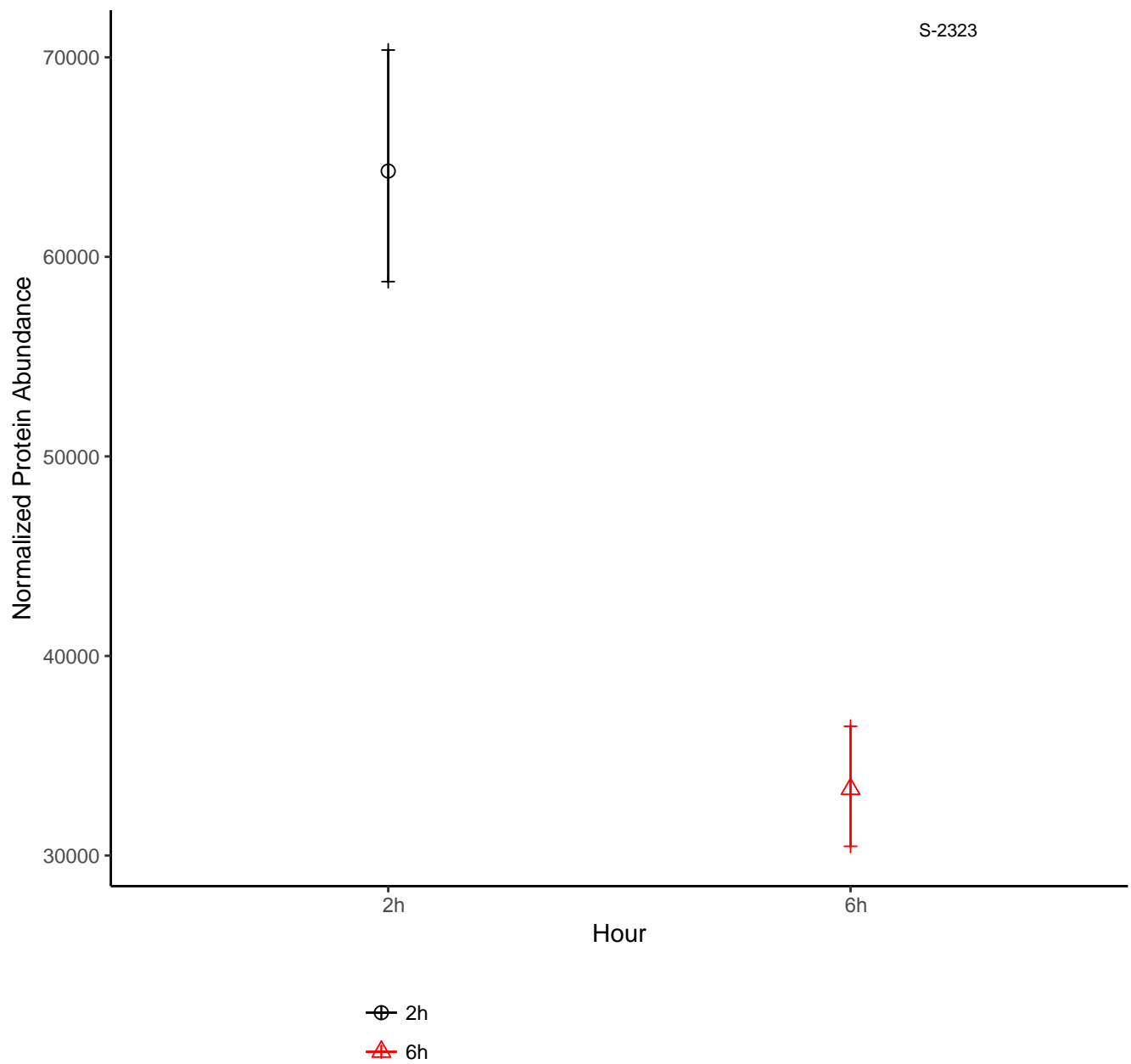
# RL20\_STAAM

S-2322



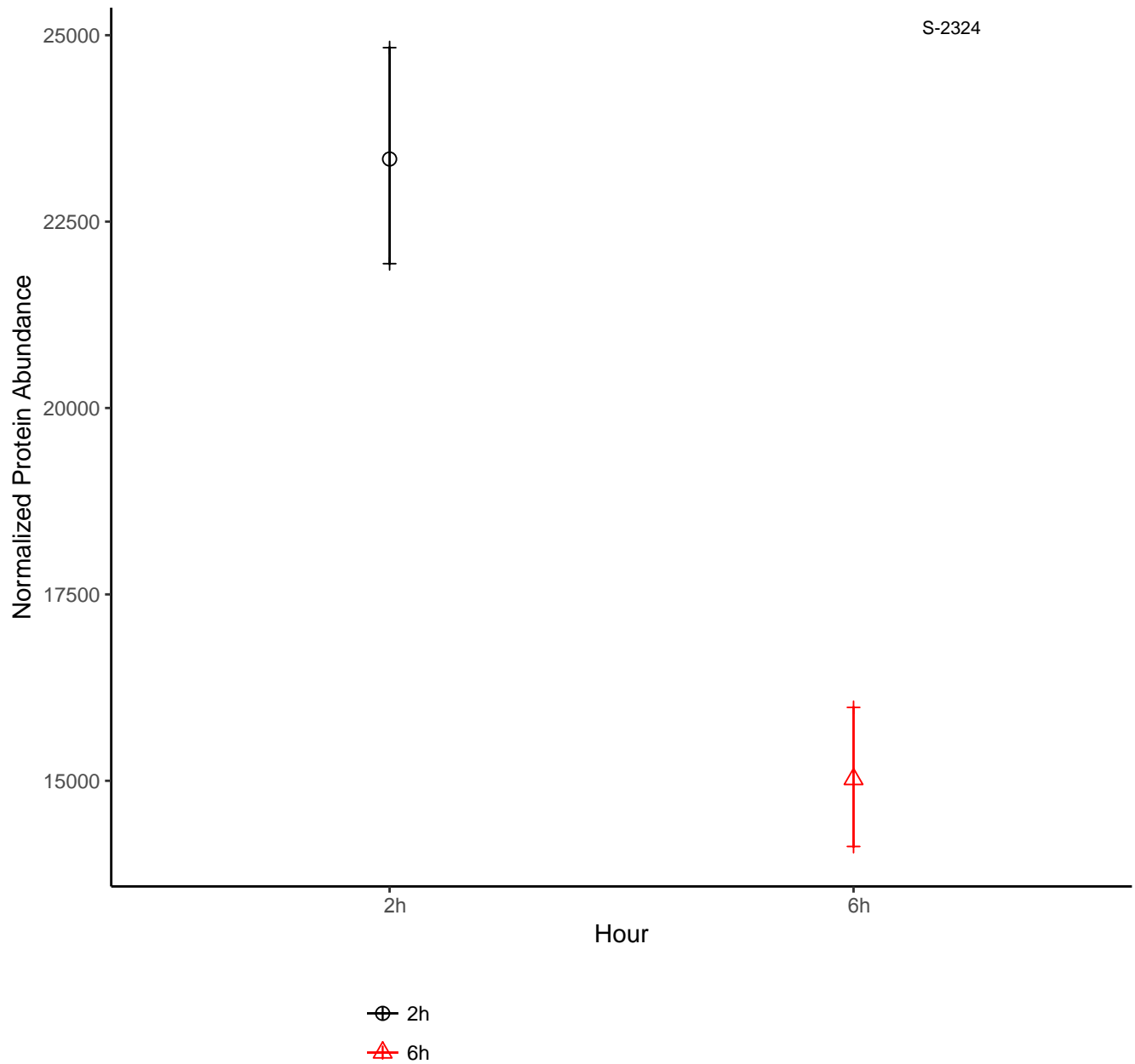
# RL21\_STAAM

S-2323



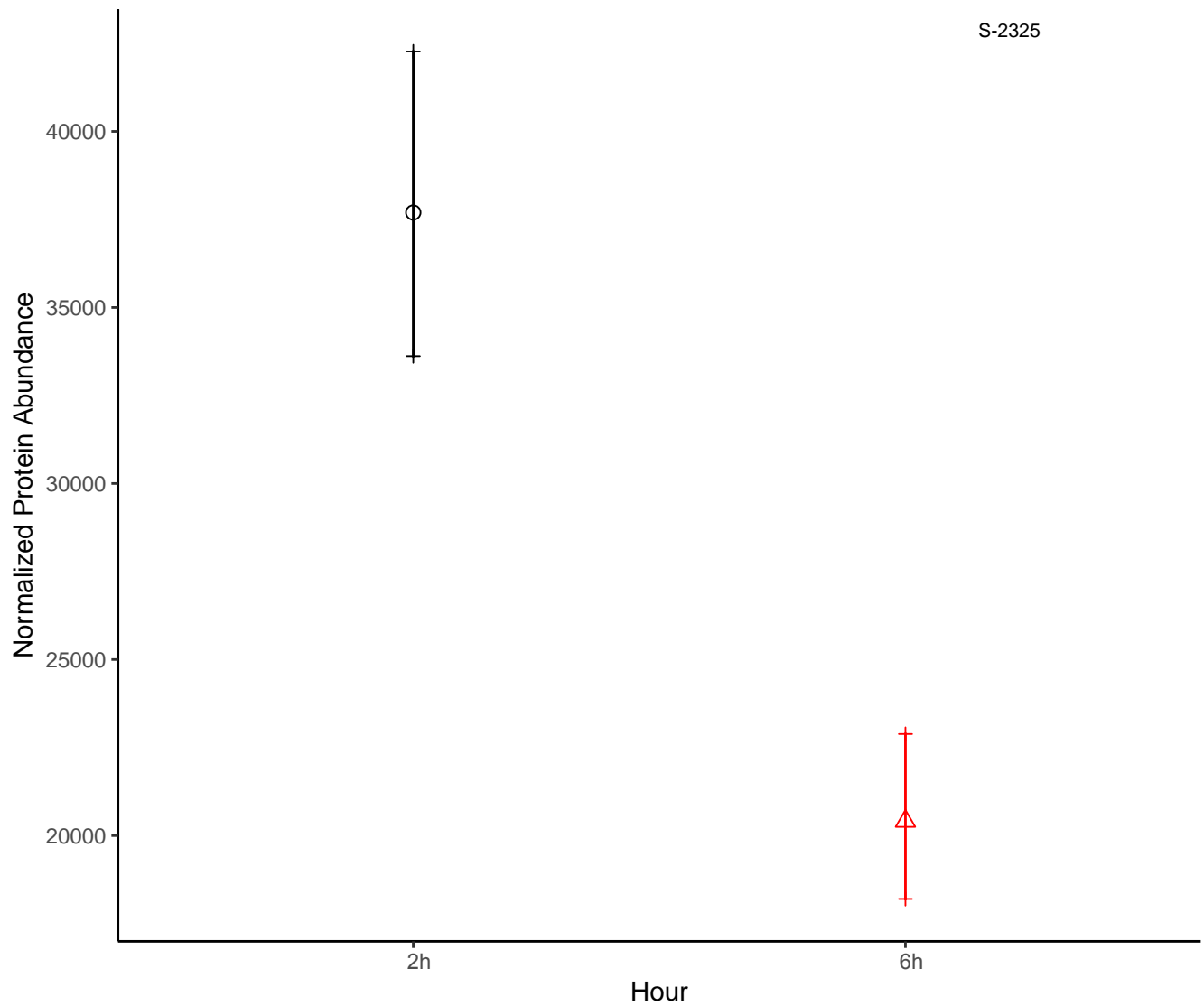
# RL22\_STAAM

S-2324



# RL23\_STAAM

S-2325

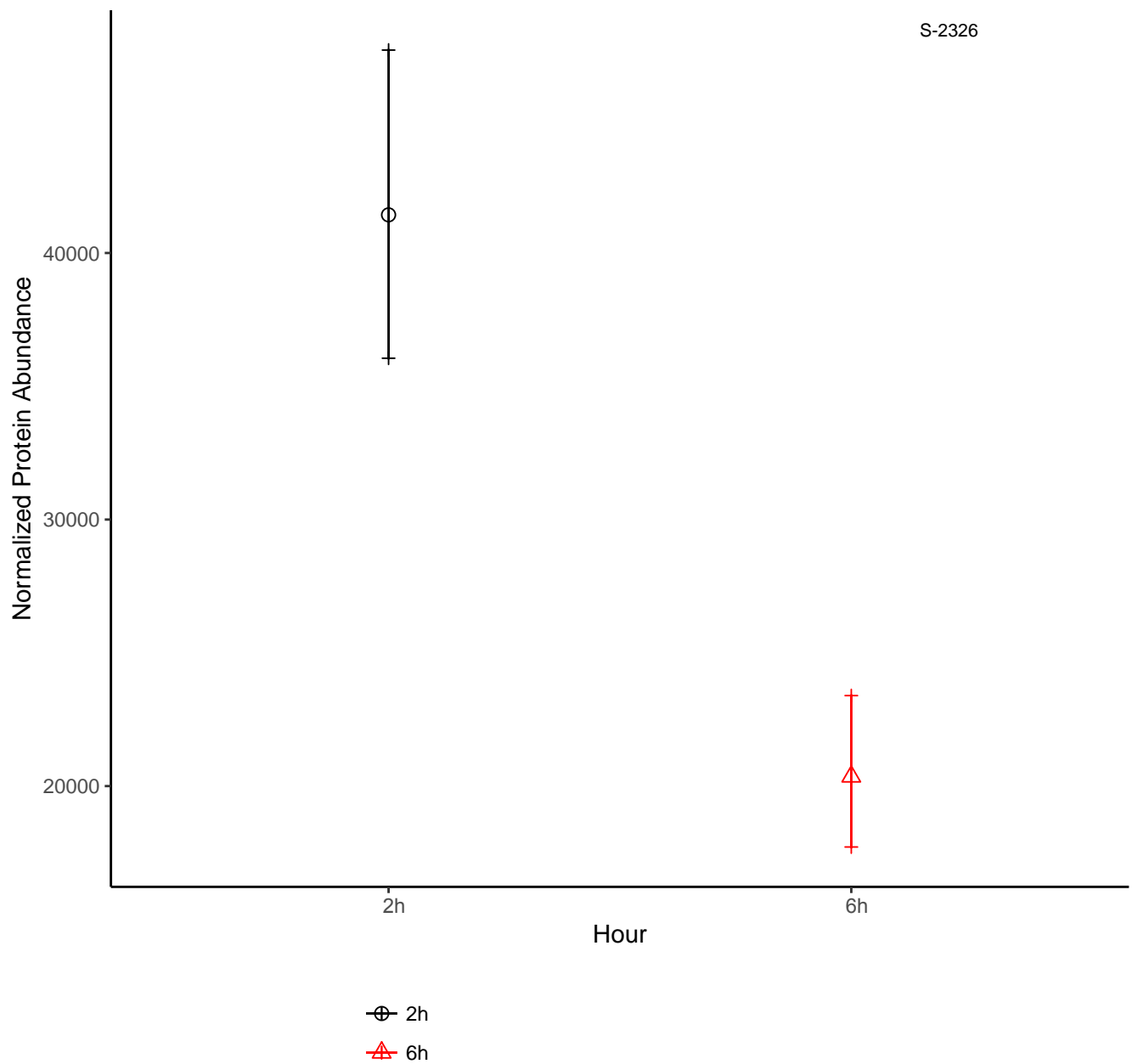


⊕ 2h

△ 6h

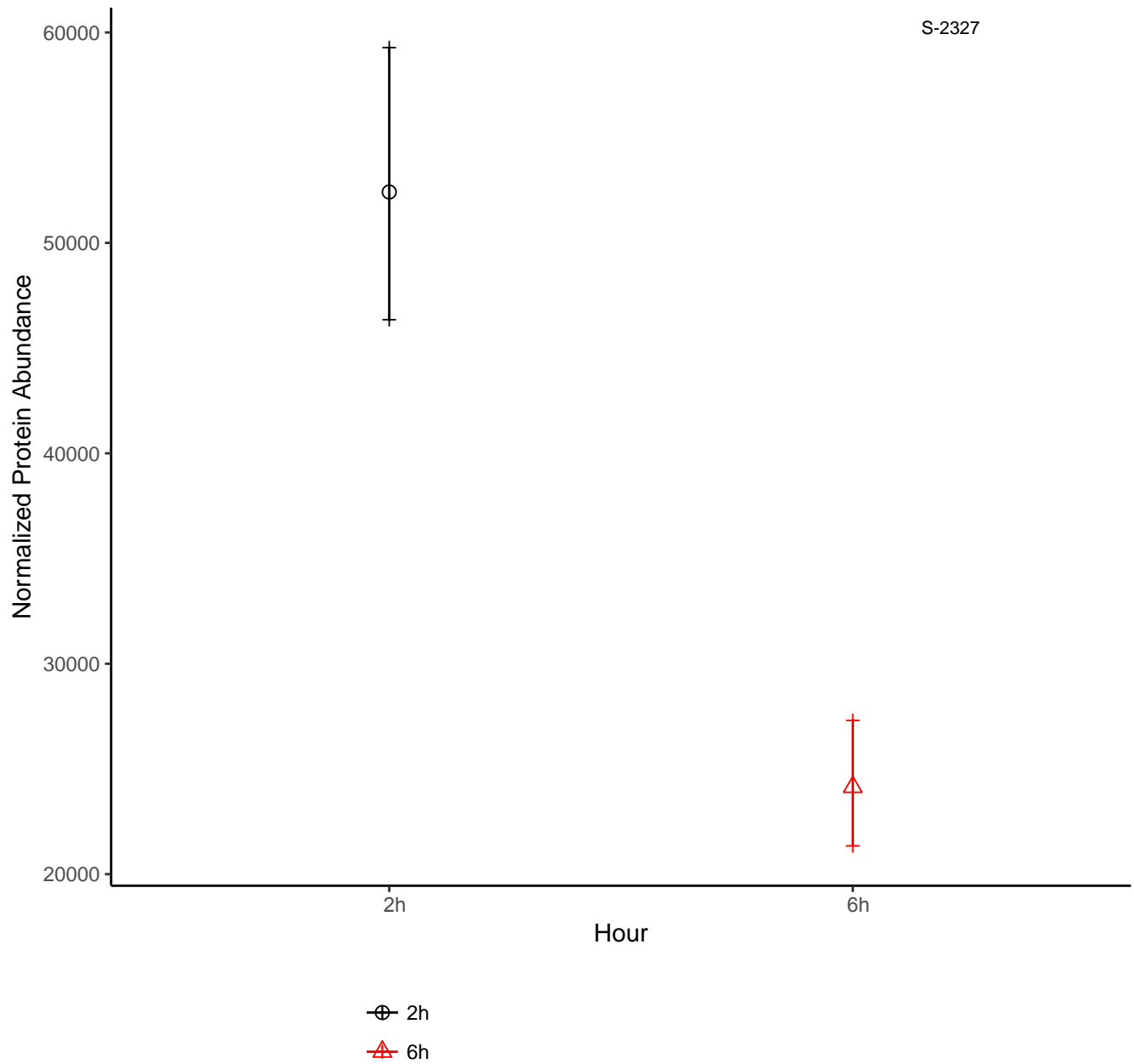
# RL24\_STAAM

S-2326

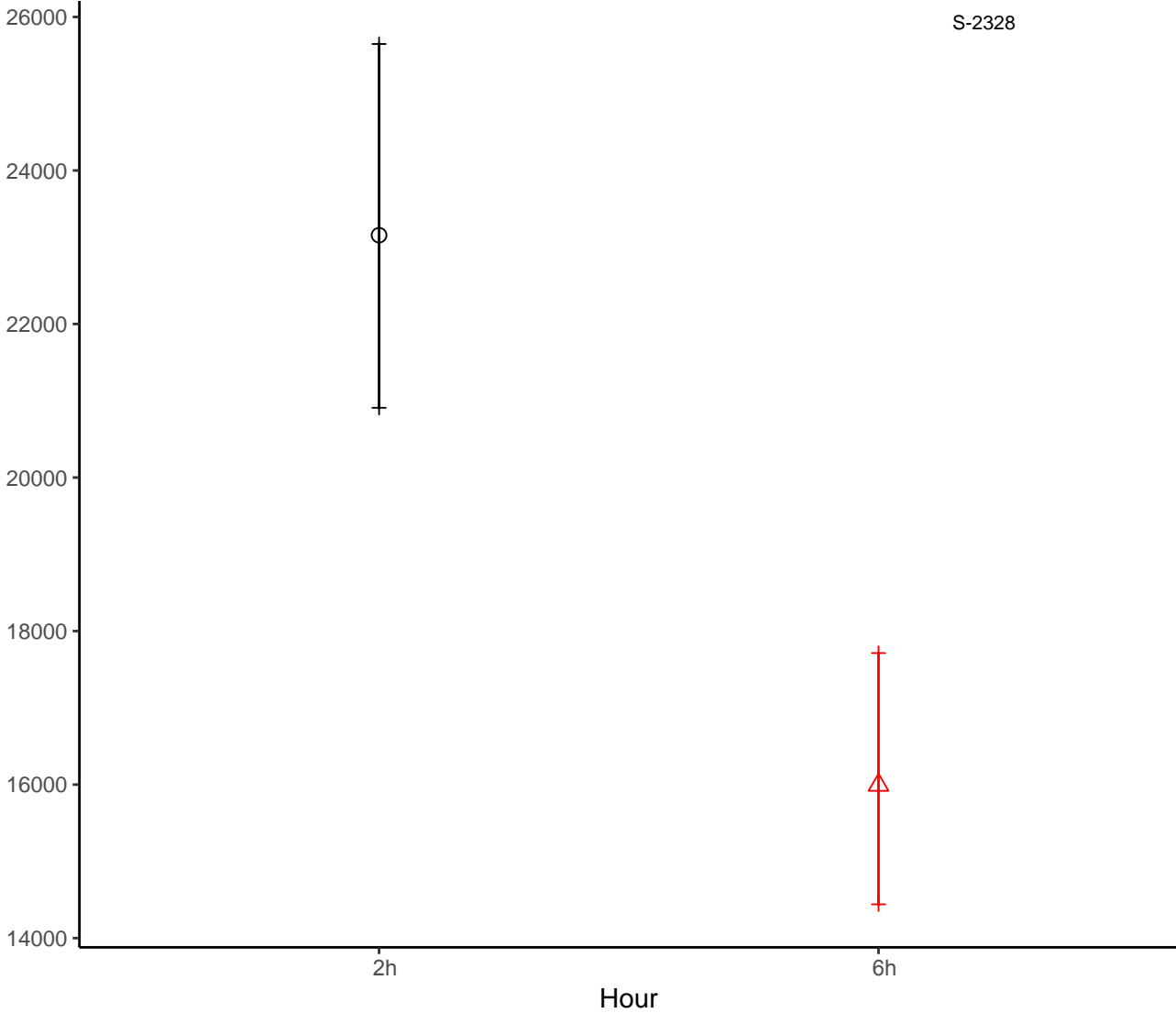


# RL25\_STAAM

S-2327



# RL27\_STAAM



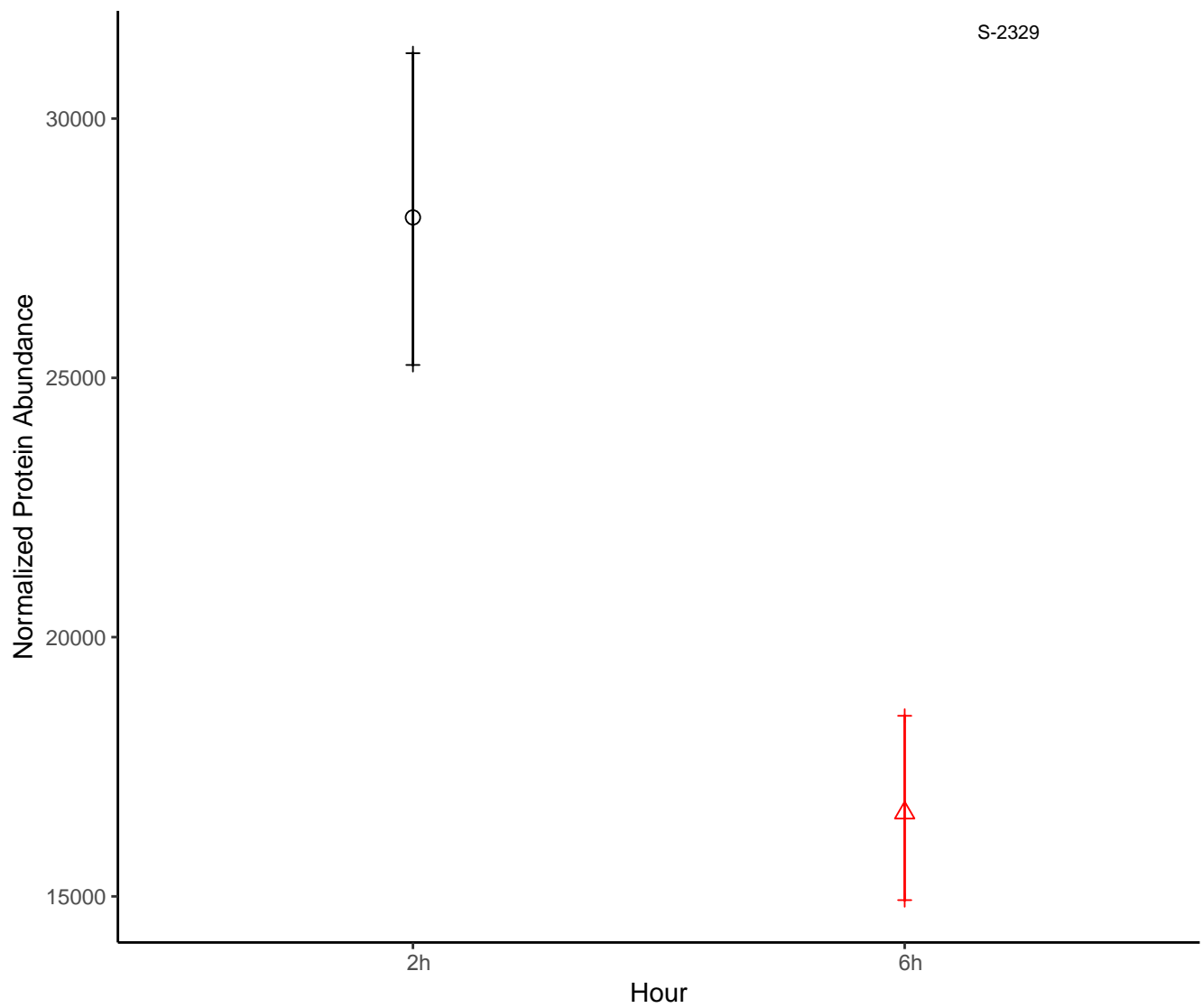
⊕ 2h

△ 6h



# RL28\_STAAM

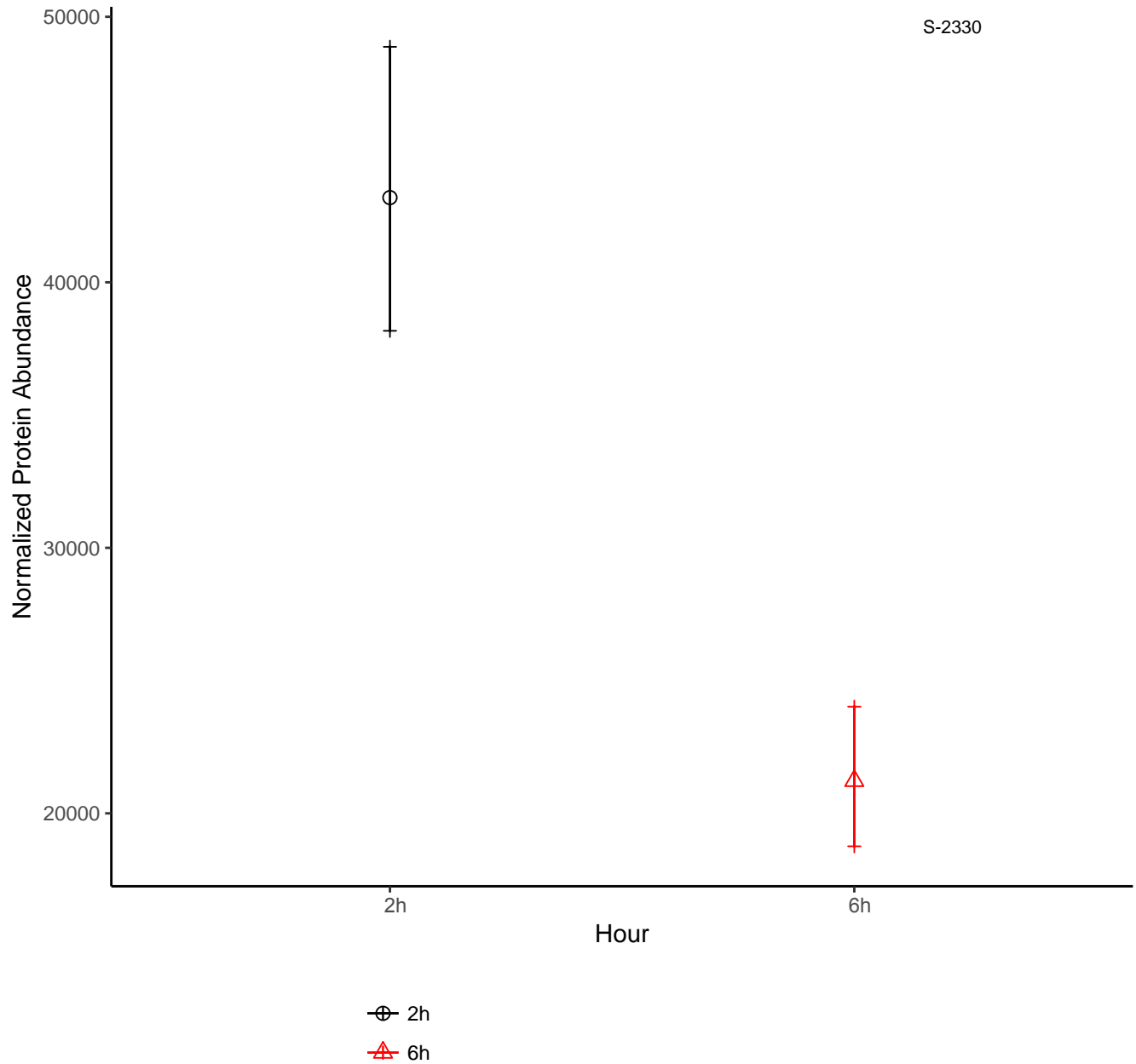
S-2329



⊕ 2h

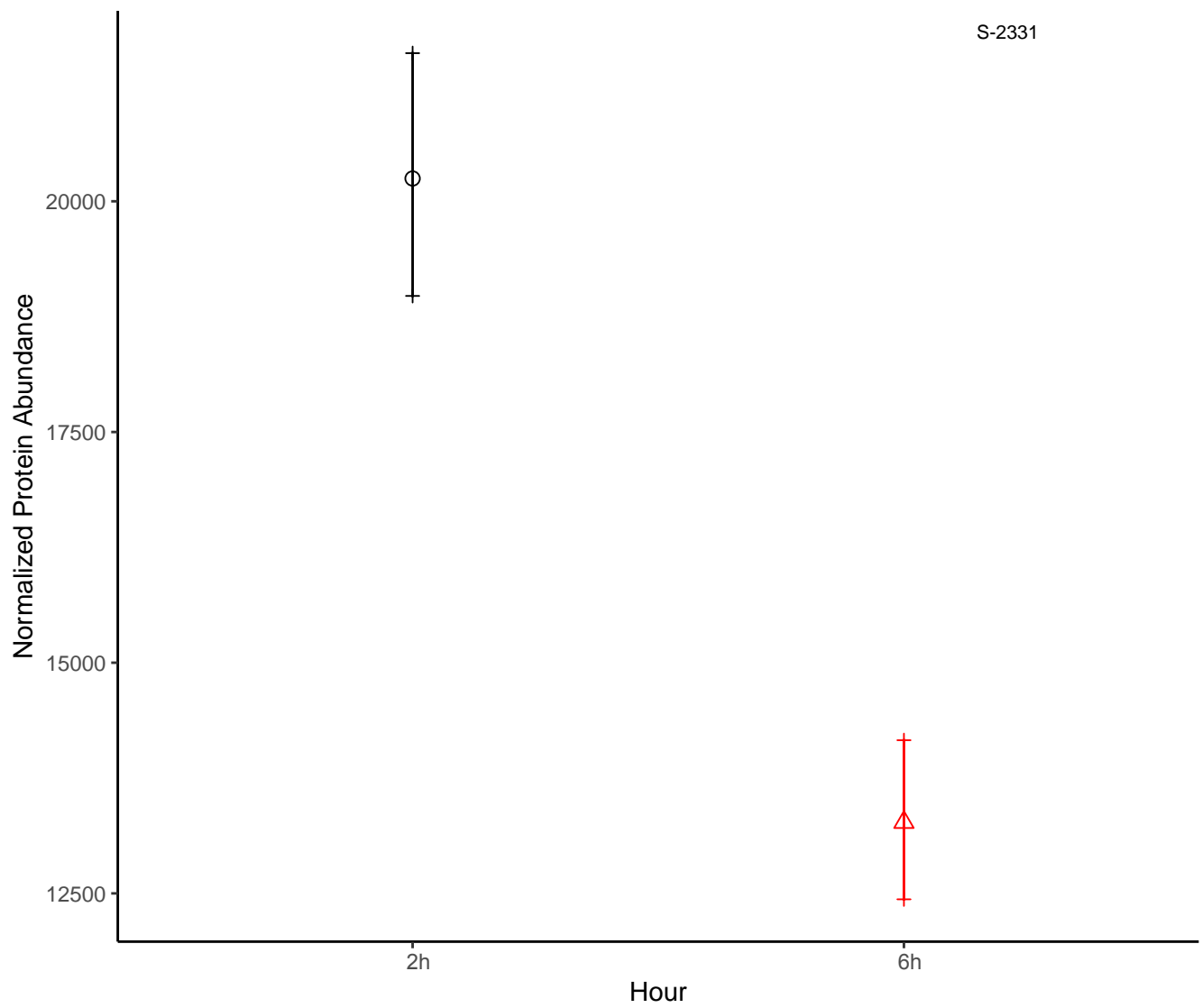
△ 6h

# RL29\_STAAM



# RL3\_STAAM

S-2331

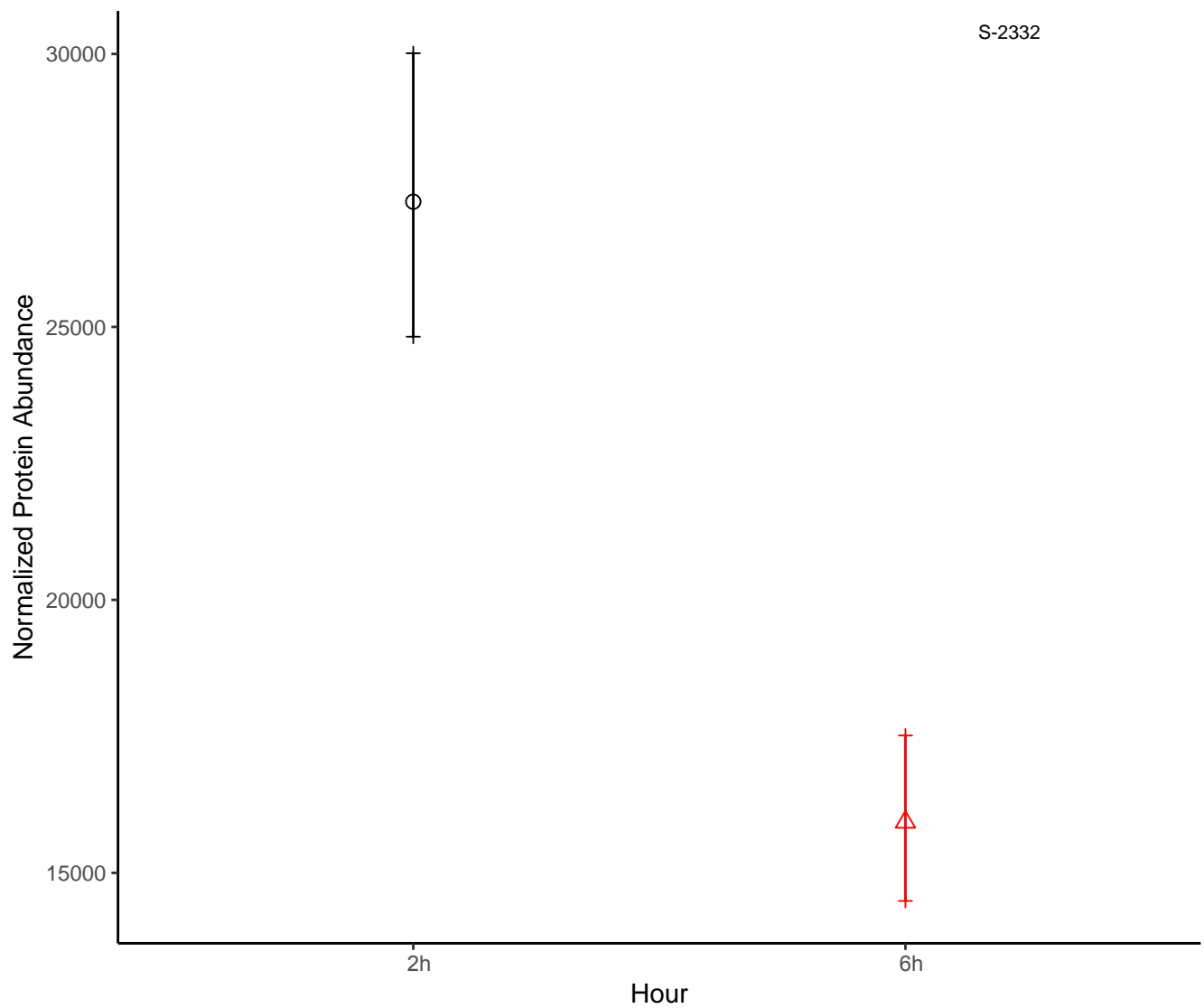


⊕ 2h

△ 6h

# RL30\_STAAM

S-2332

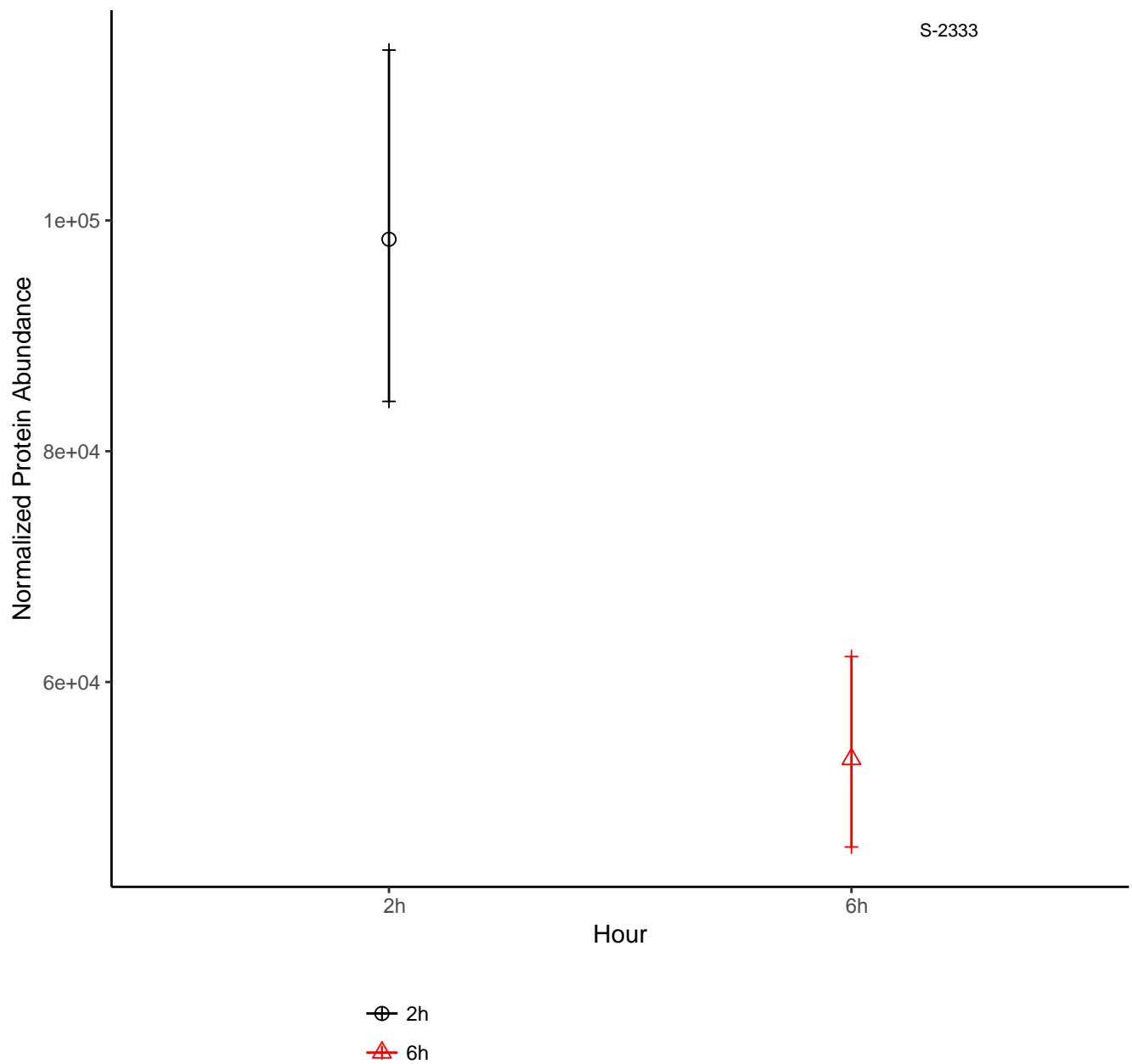


⊕ 2h

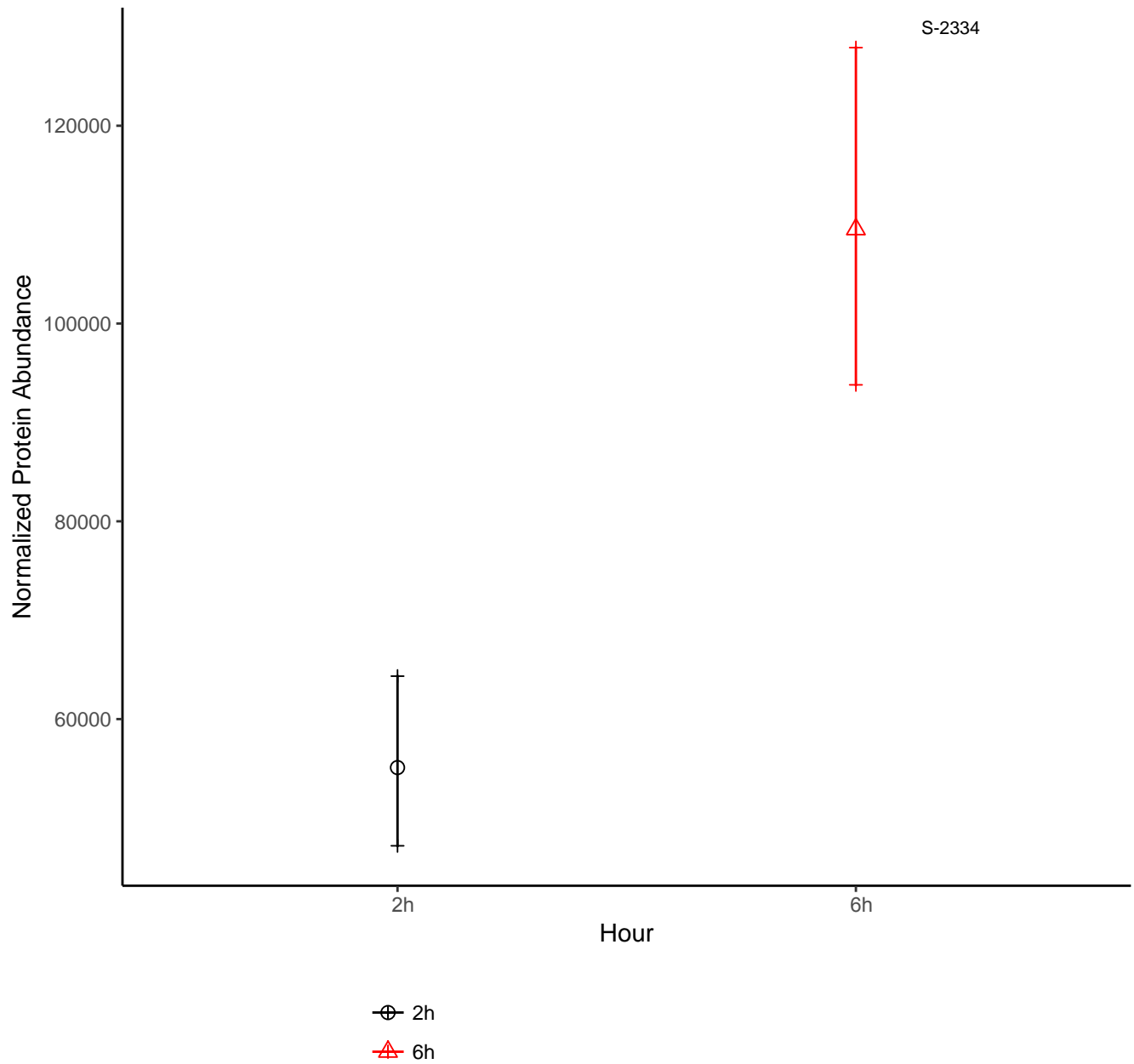
△ 6h

# RL31B\_STAAM

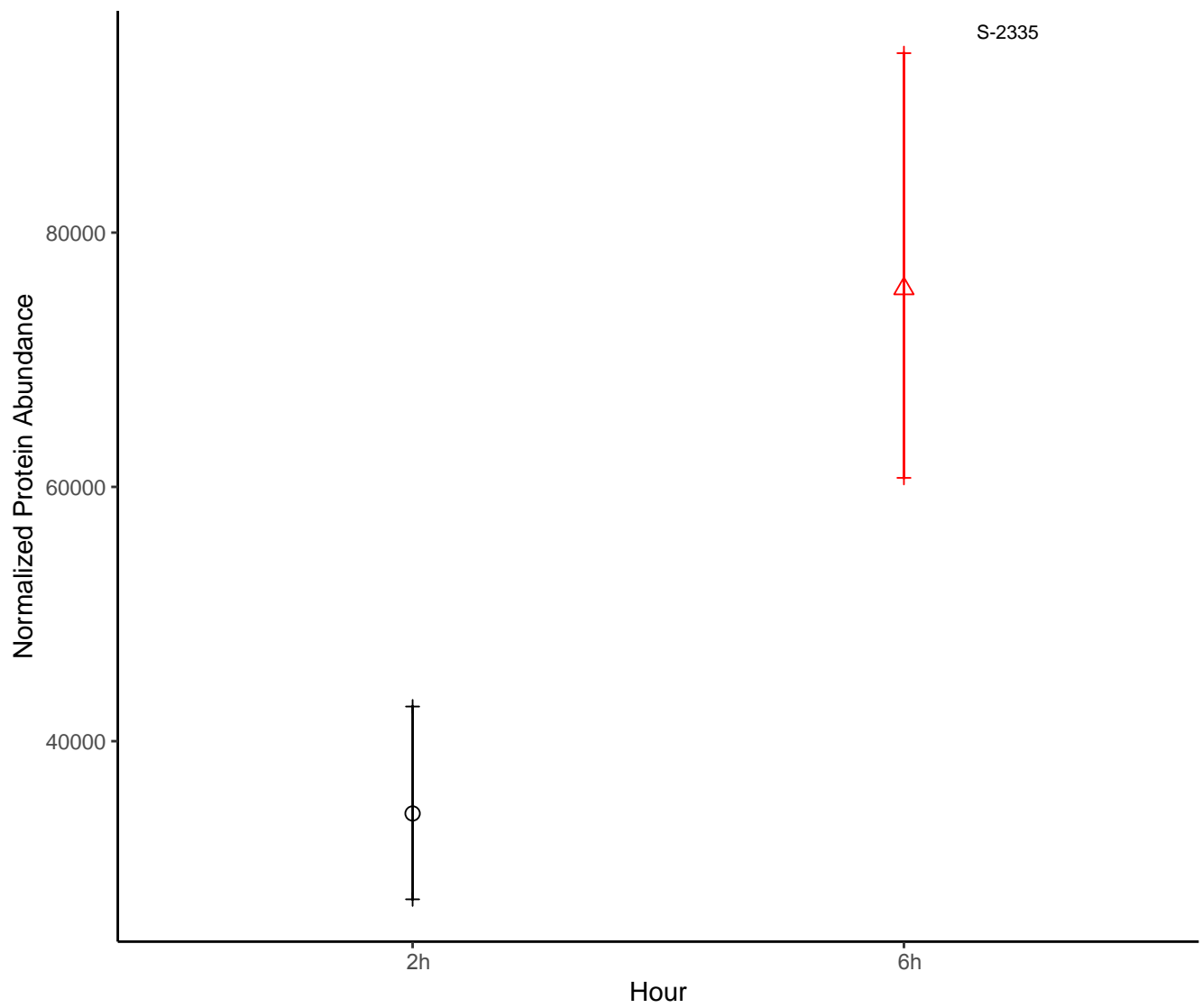
S-2333



# RL32\_STAAM



# RL331\_STAAM

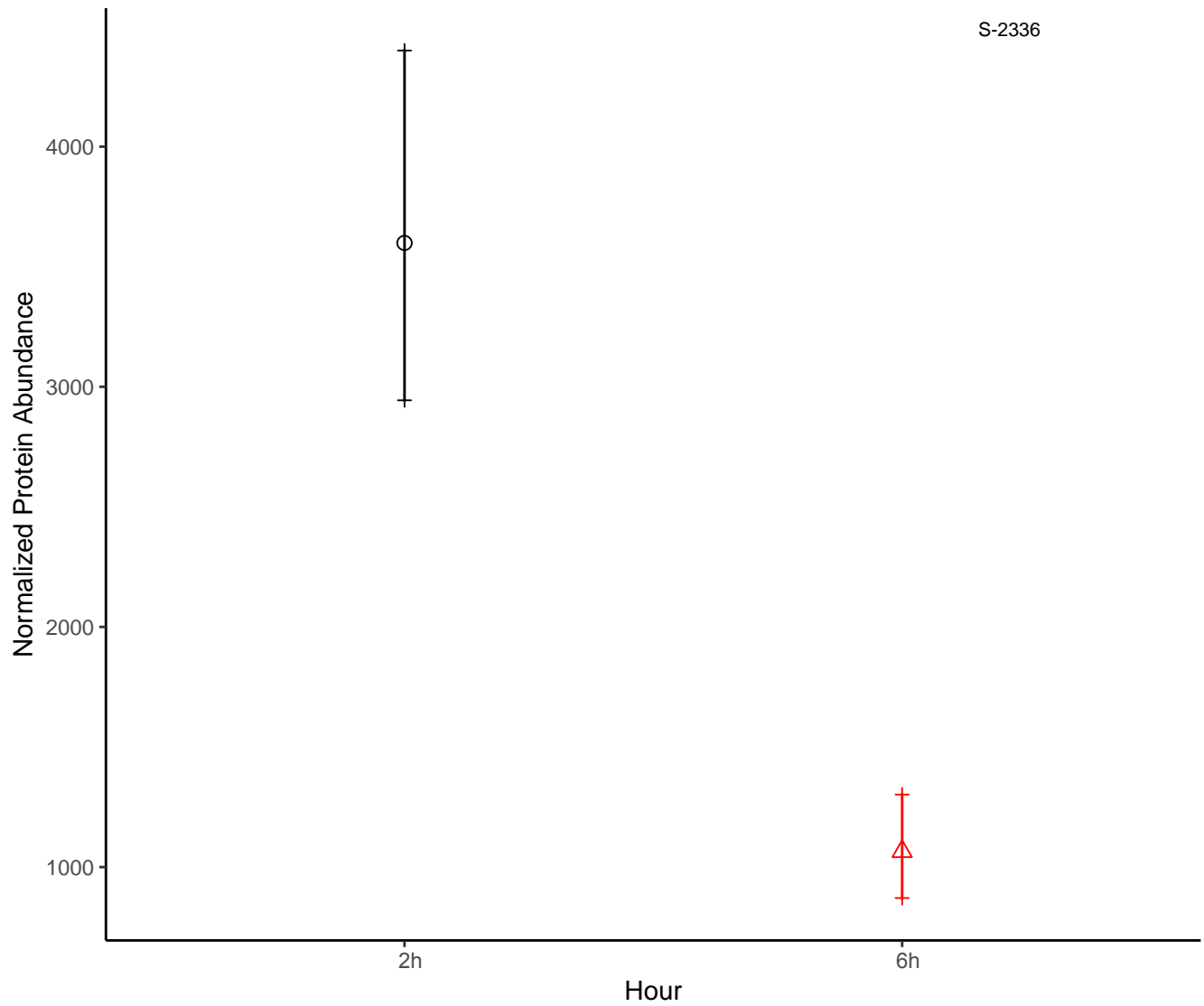


⊕ 2h

△ 6h

# RL332\_STAAM

S-2336



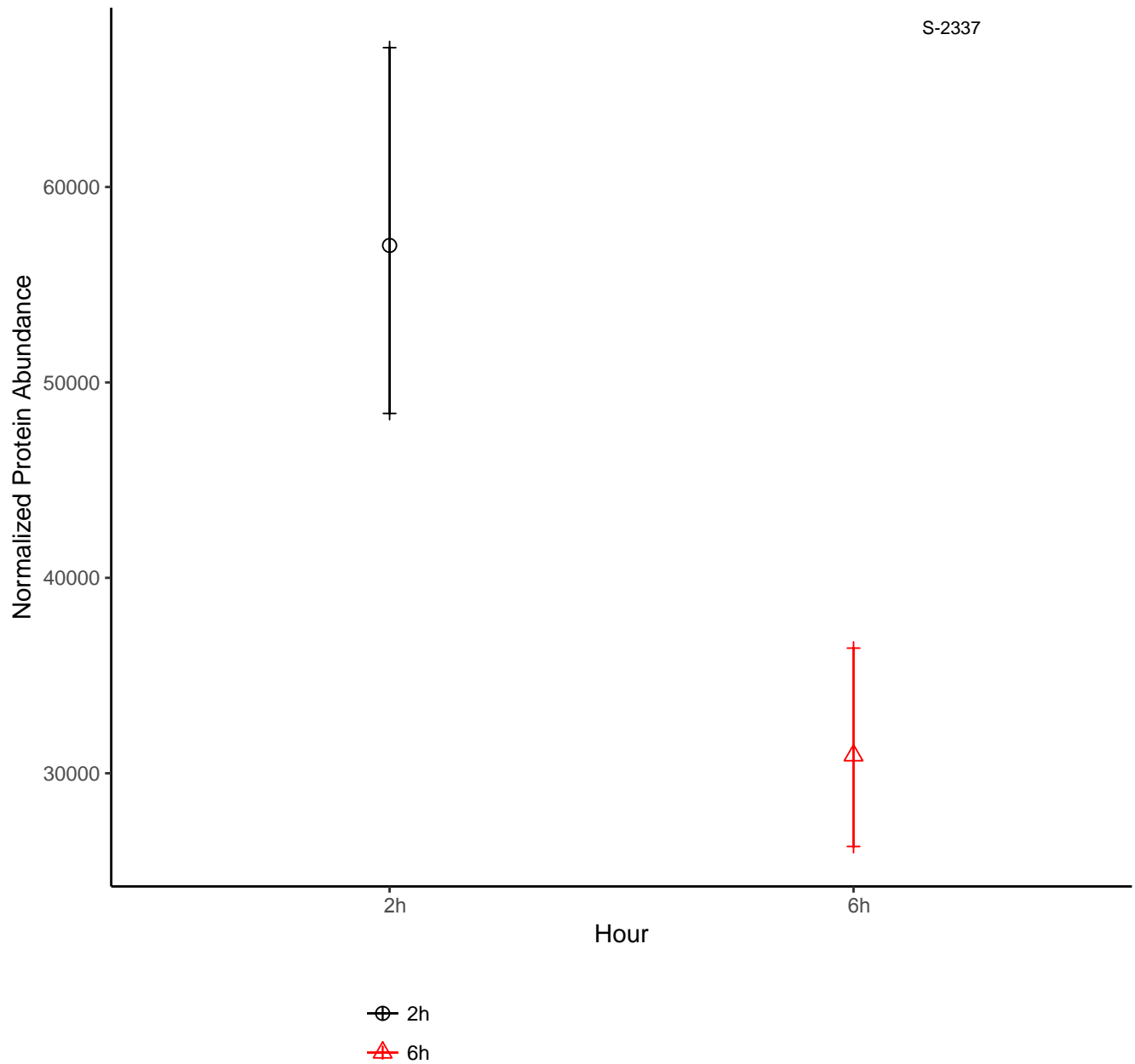
⊕ 2h

△ 6h



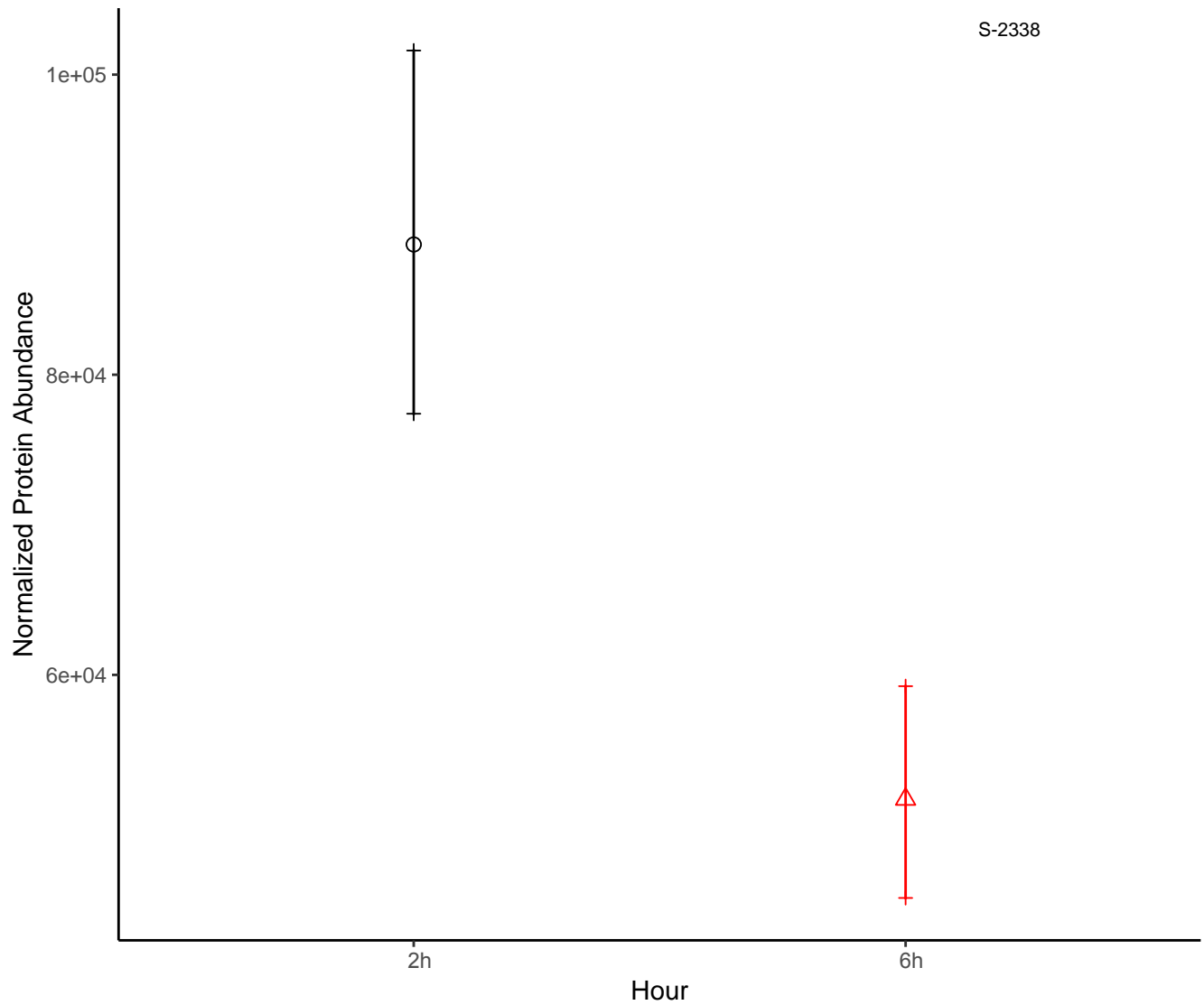
# RL35\_STAAM

S-2337



# RL36\_STAAM

S-2338

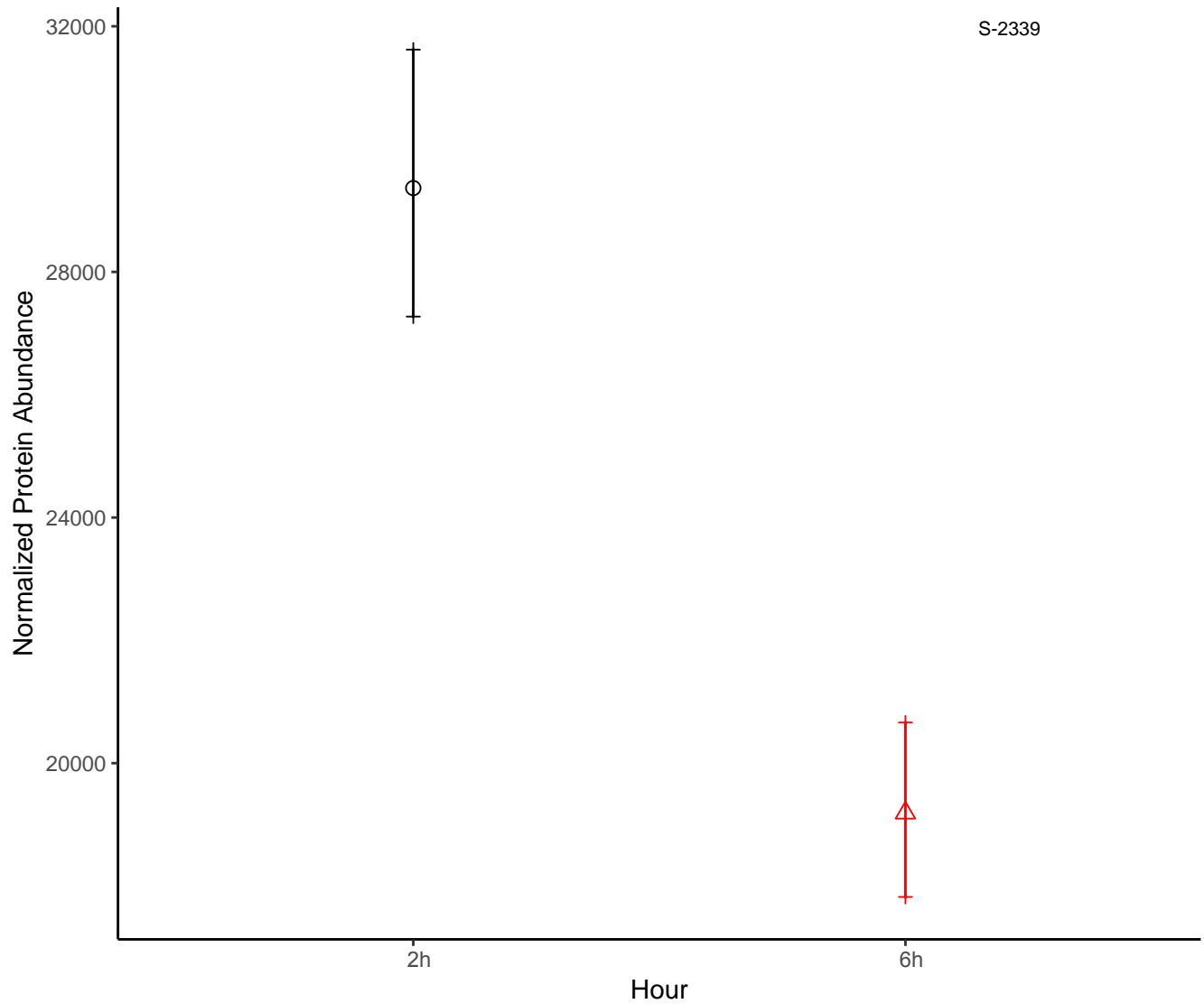


⊕ 2h

△ 6h

# RL4\_STAAM

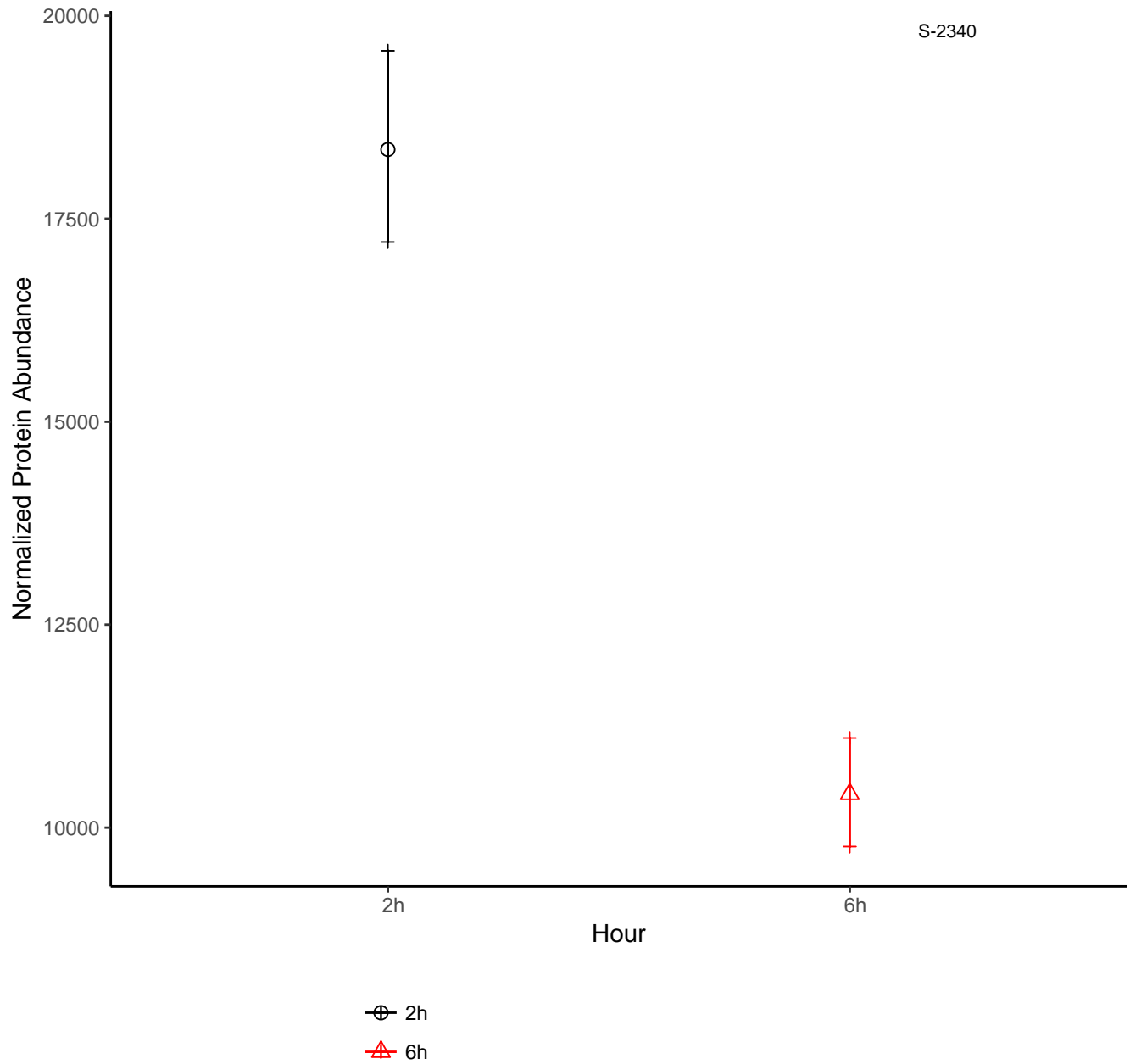
S-2339



⊕ 2h

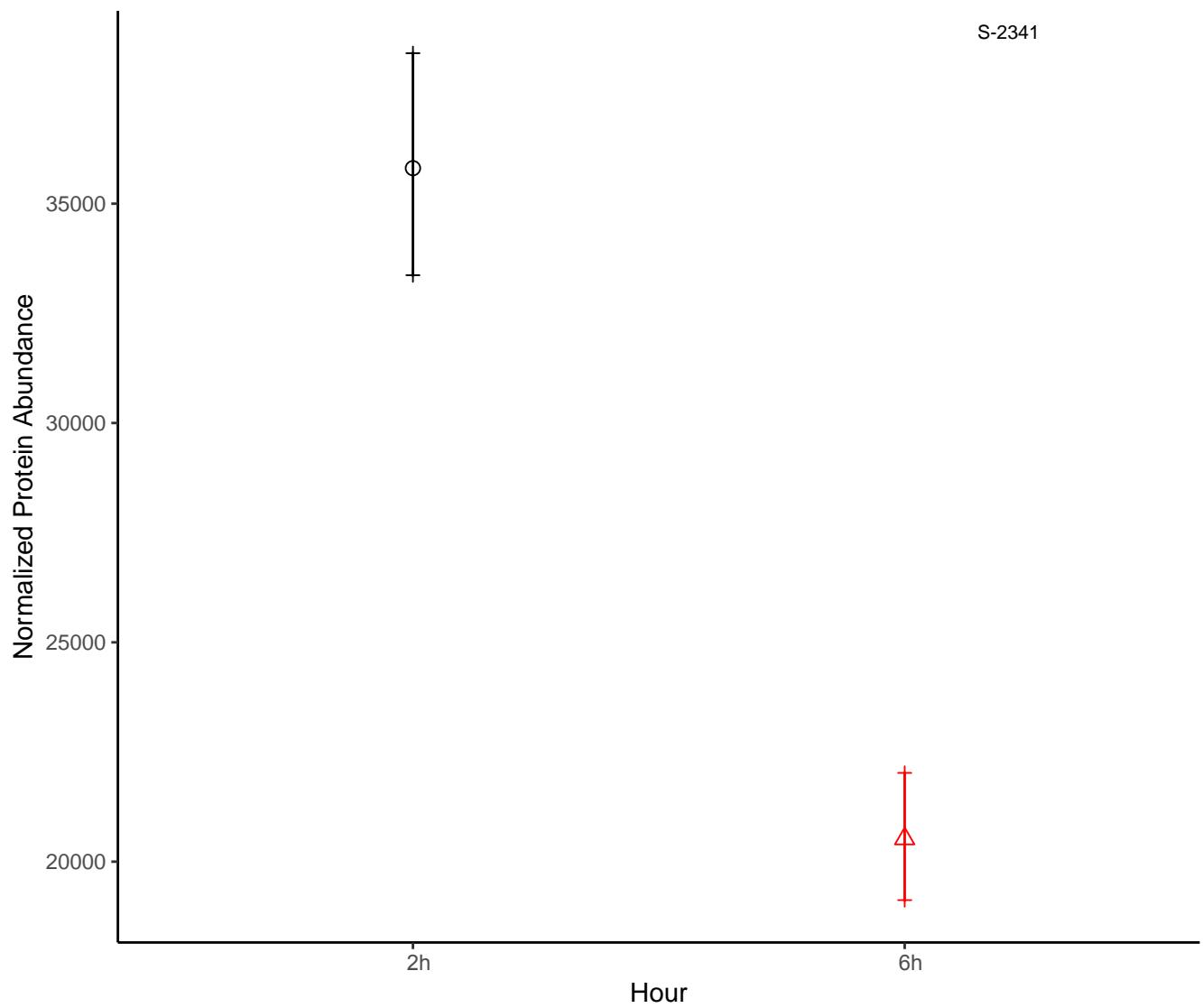
△ 6h

# RL5\_STAAM



# RL6\_STAAM

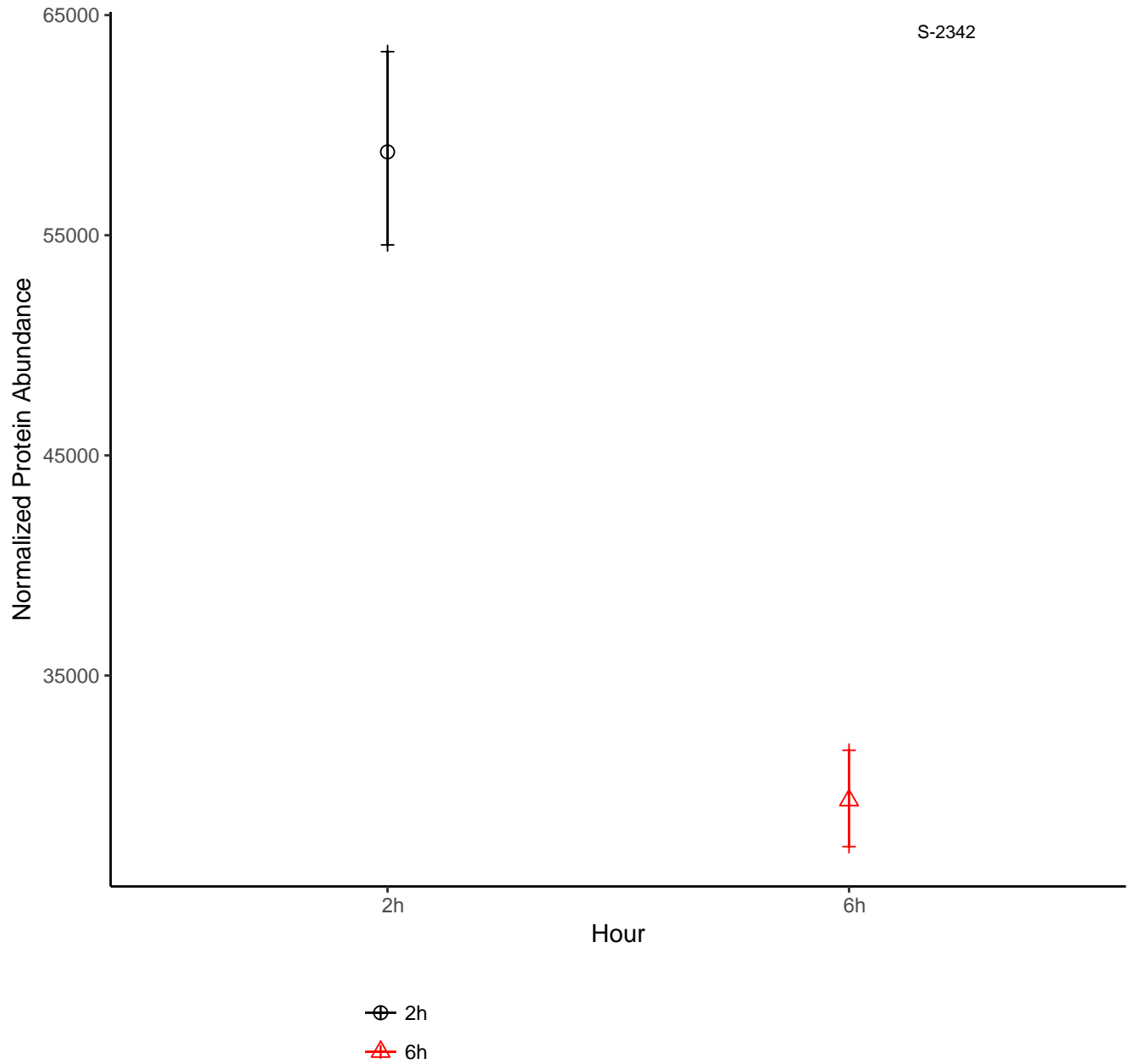
S-2341



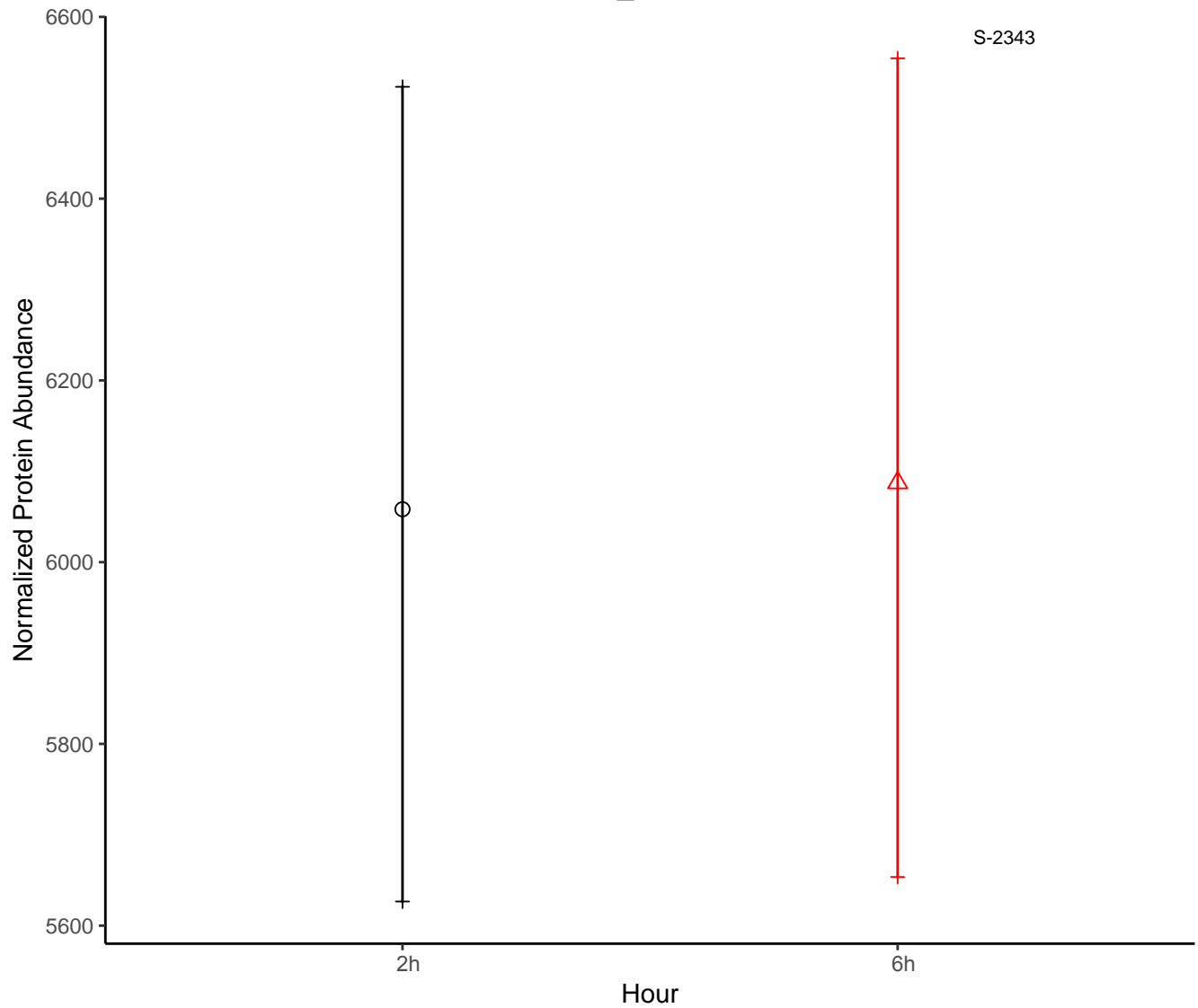
⊕ 2h

△ 6h

# RL7\_STAAM



# RL9\_STAAM

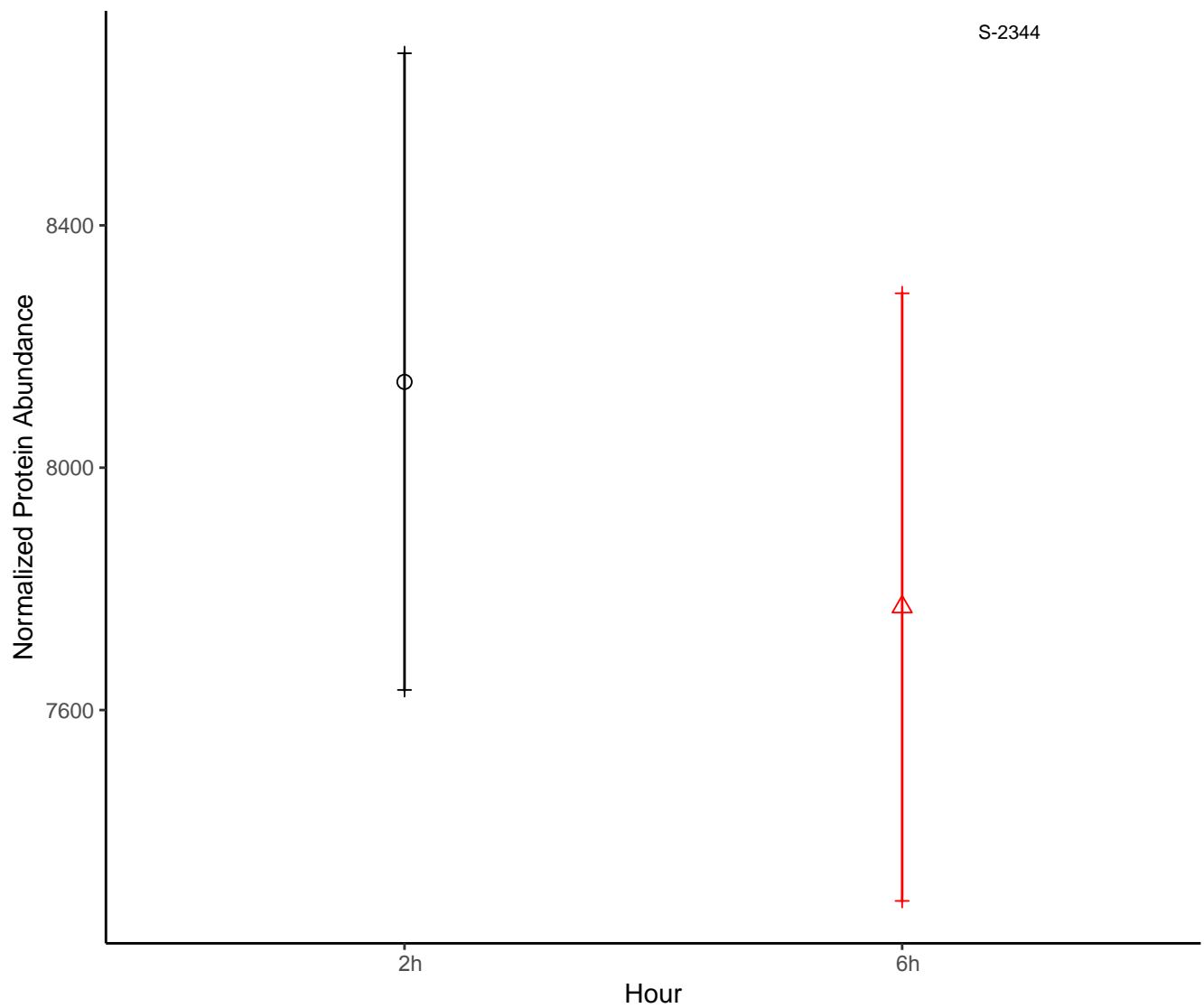


⊕ 2h

△ 6h

# RNJ1\_STAAM

S-2344

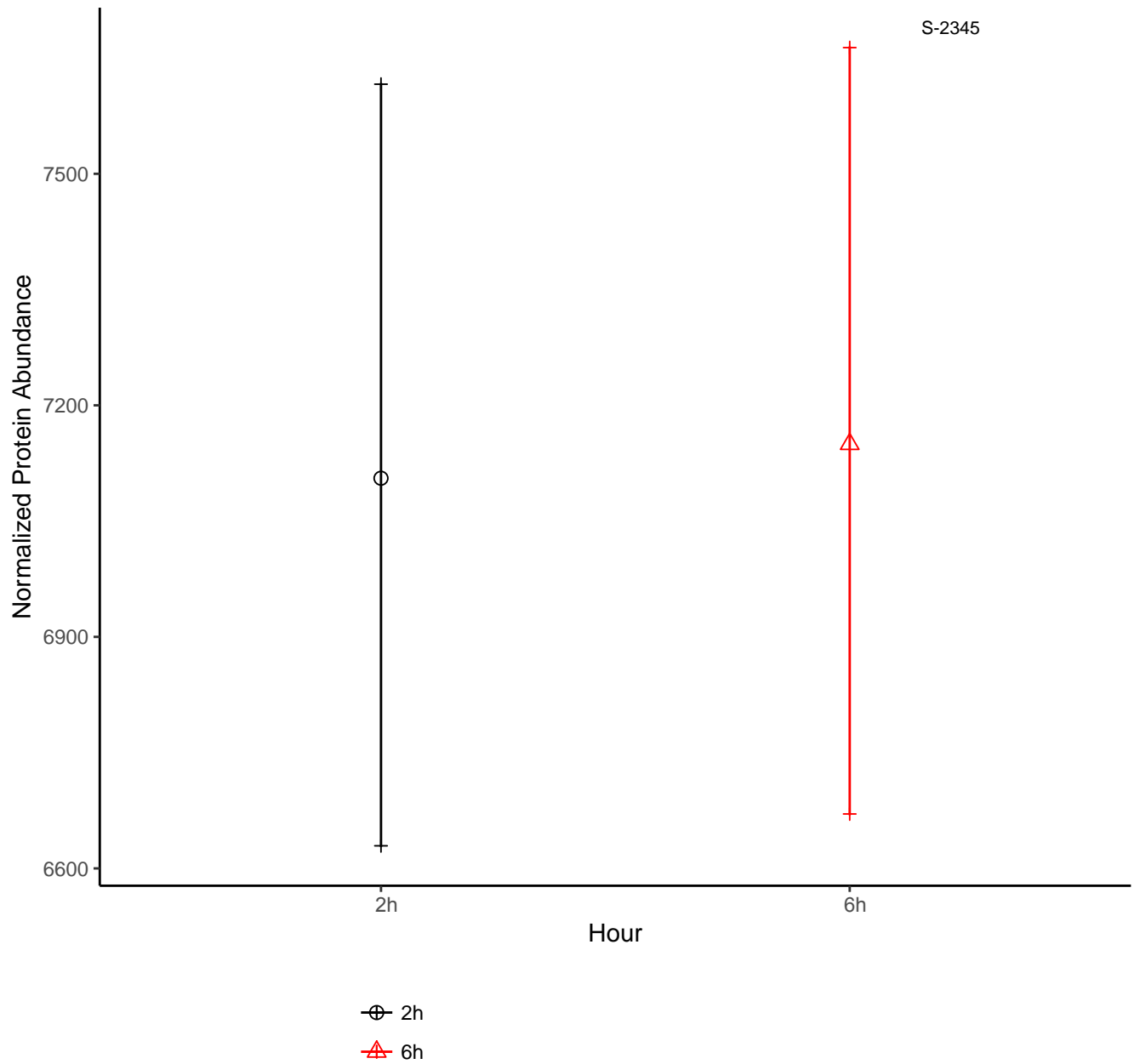


⊕ 2h

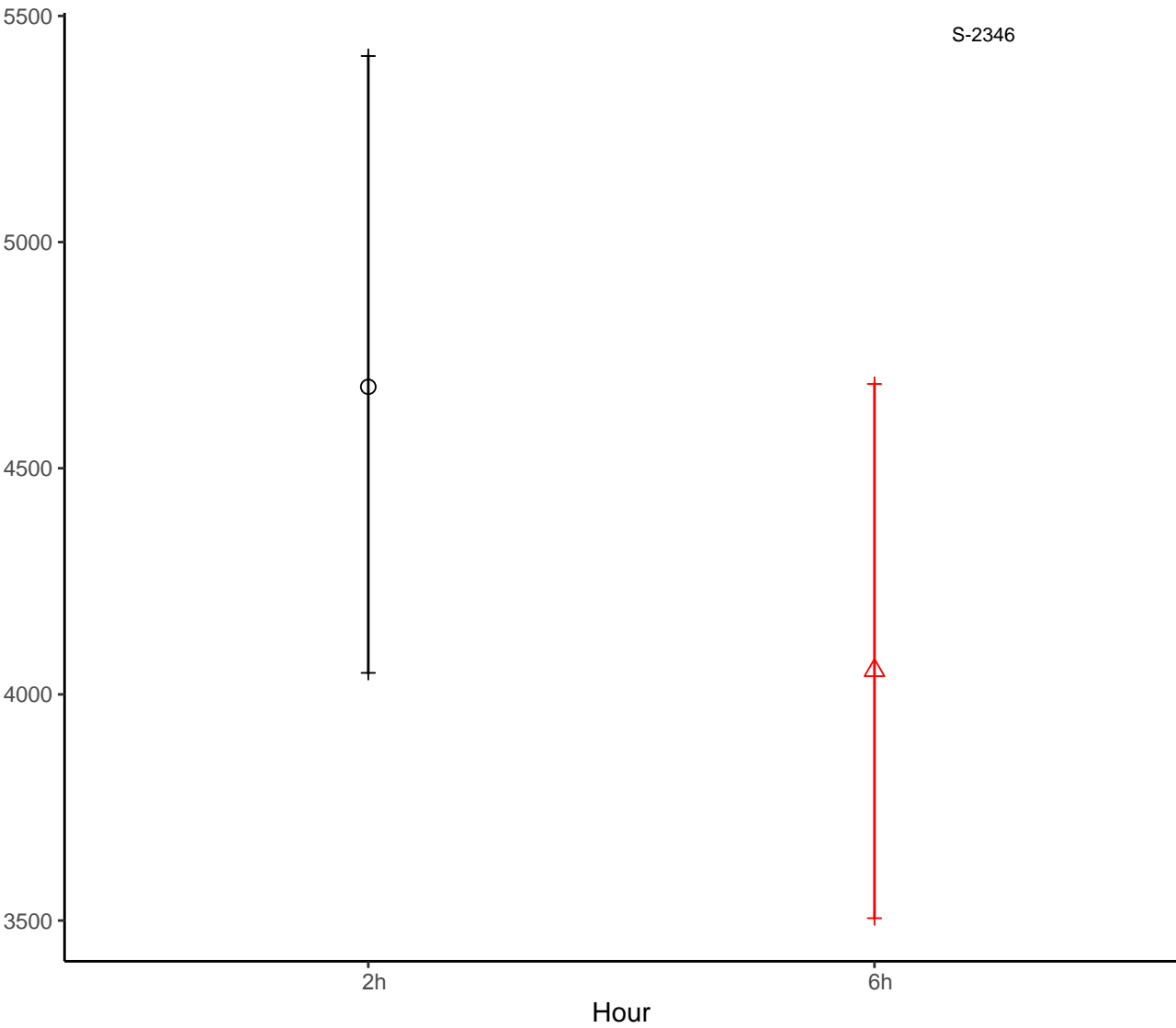
△ 6h



# RNJ2\_STAAM



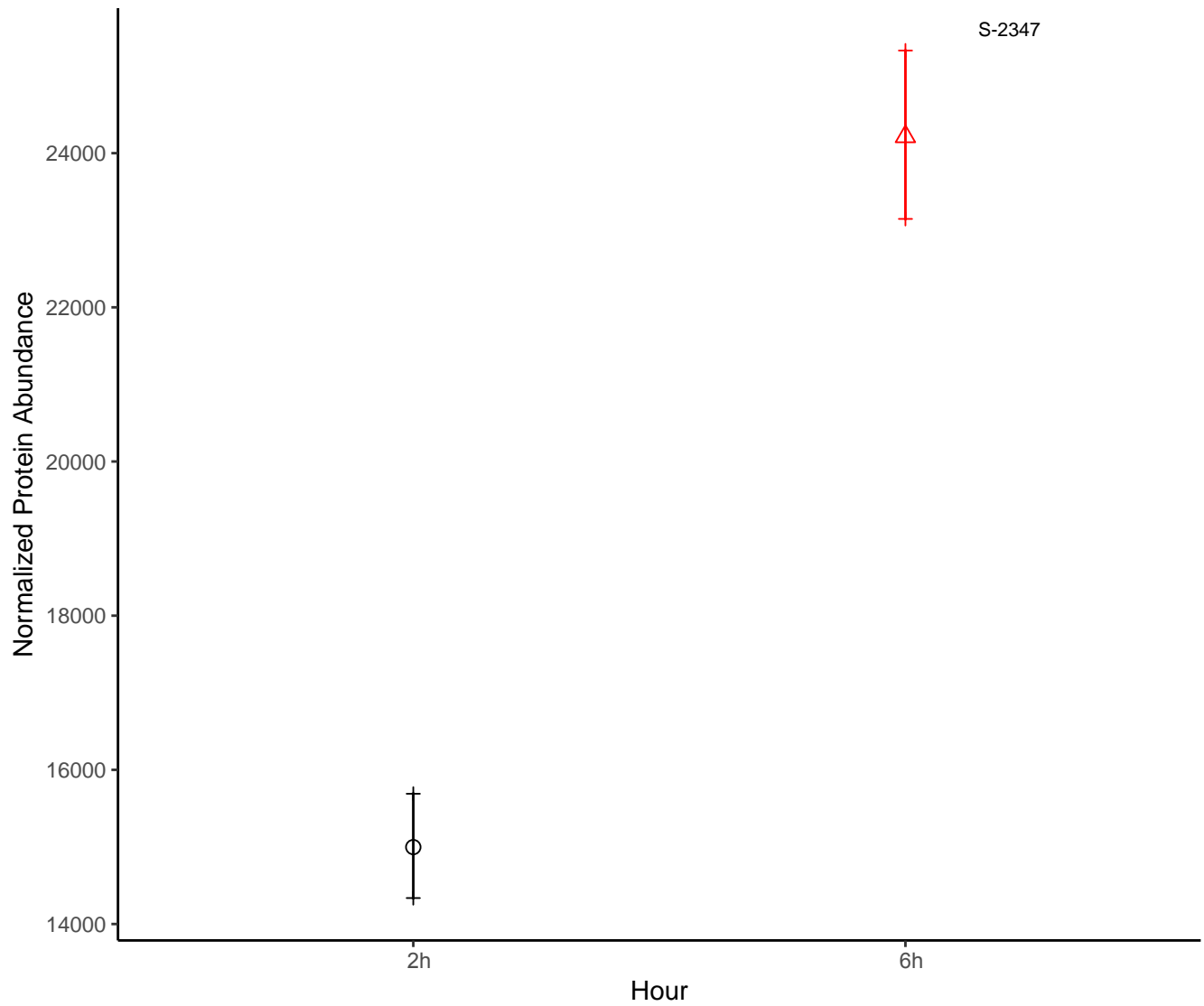
# RNY\_STAAM



⊕ 2h

△ 6h

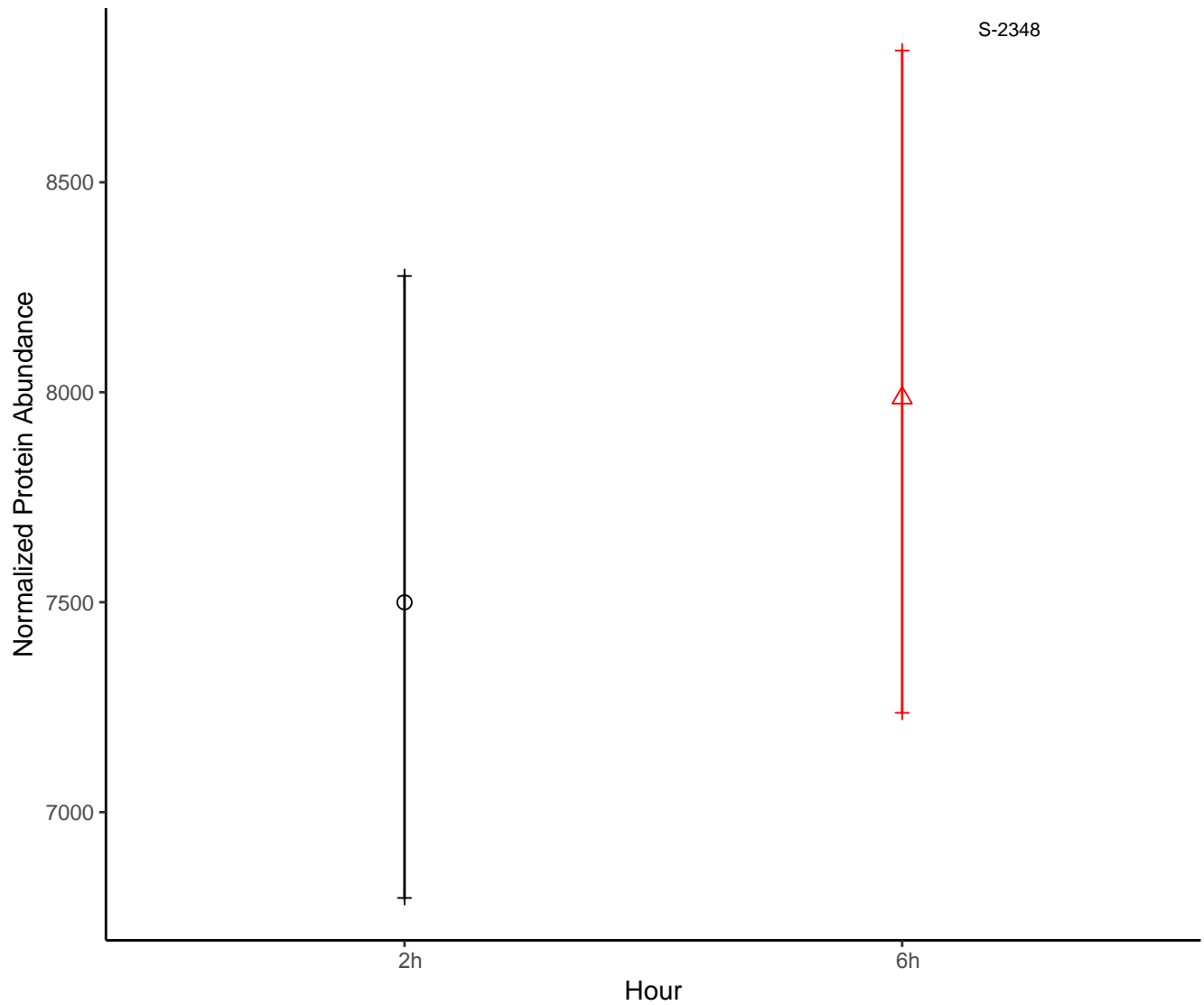
# ROCA\_STAAM



⊕ 2h

△ 6h

# ROT\_STAAM

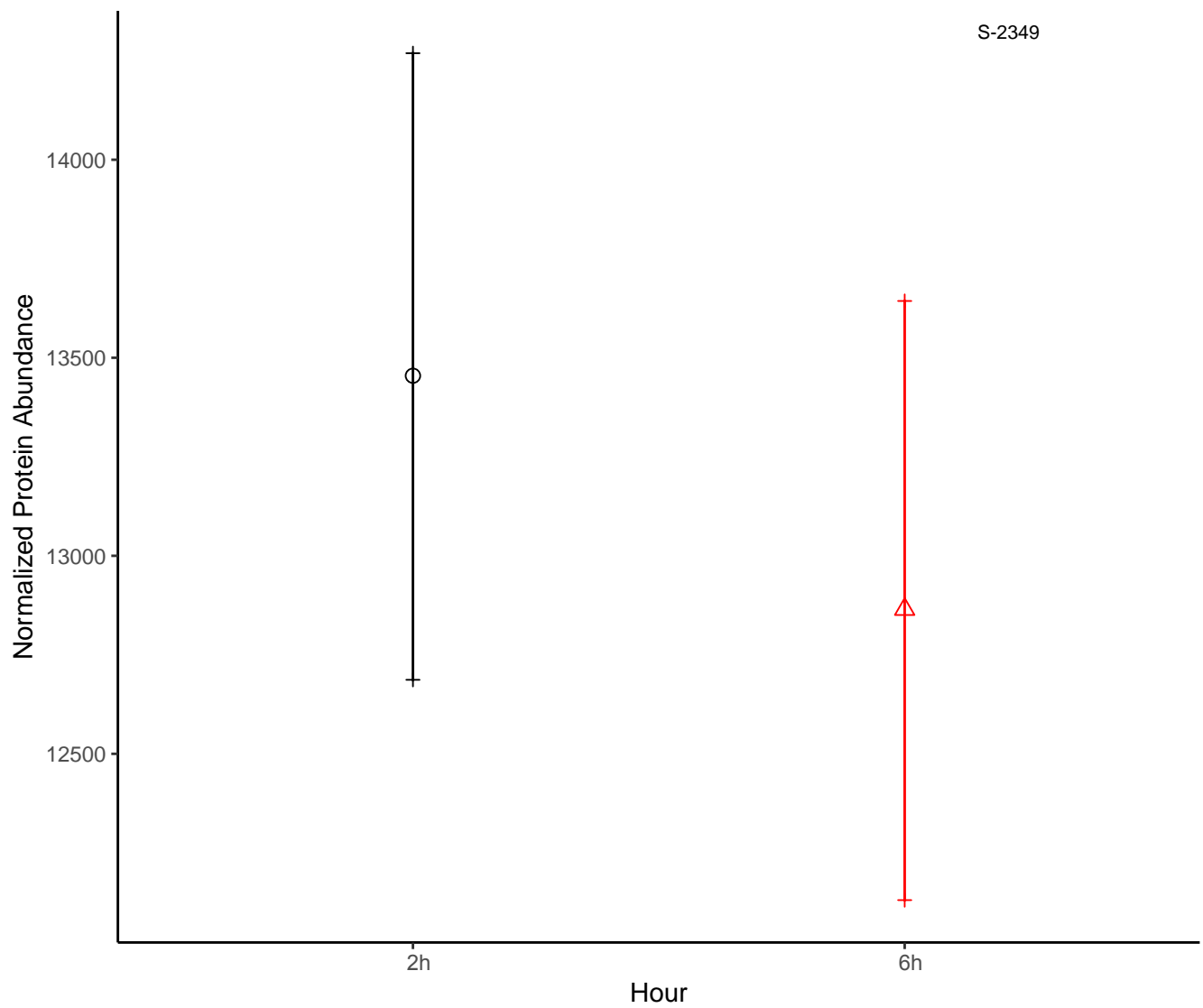


⊕ 2h

△ 6h

# RPOA\_STAAM

S-2349

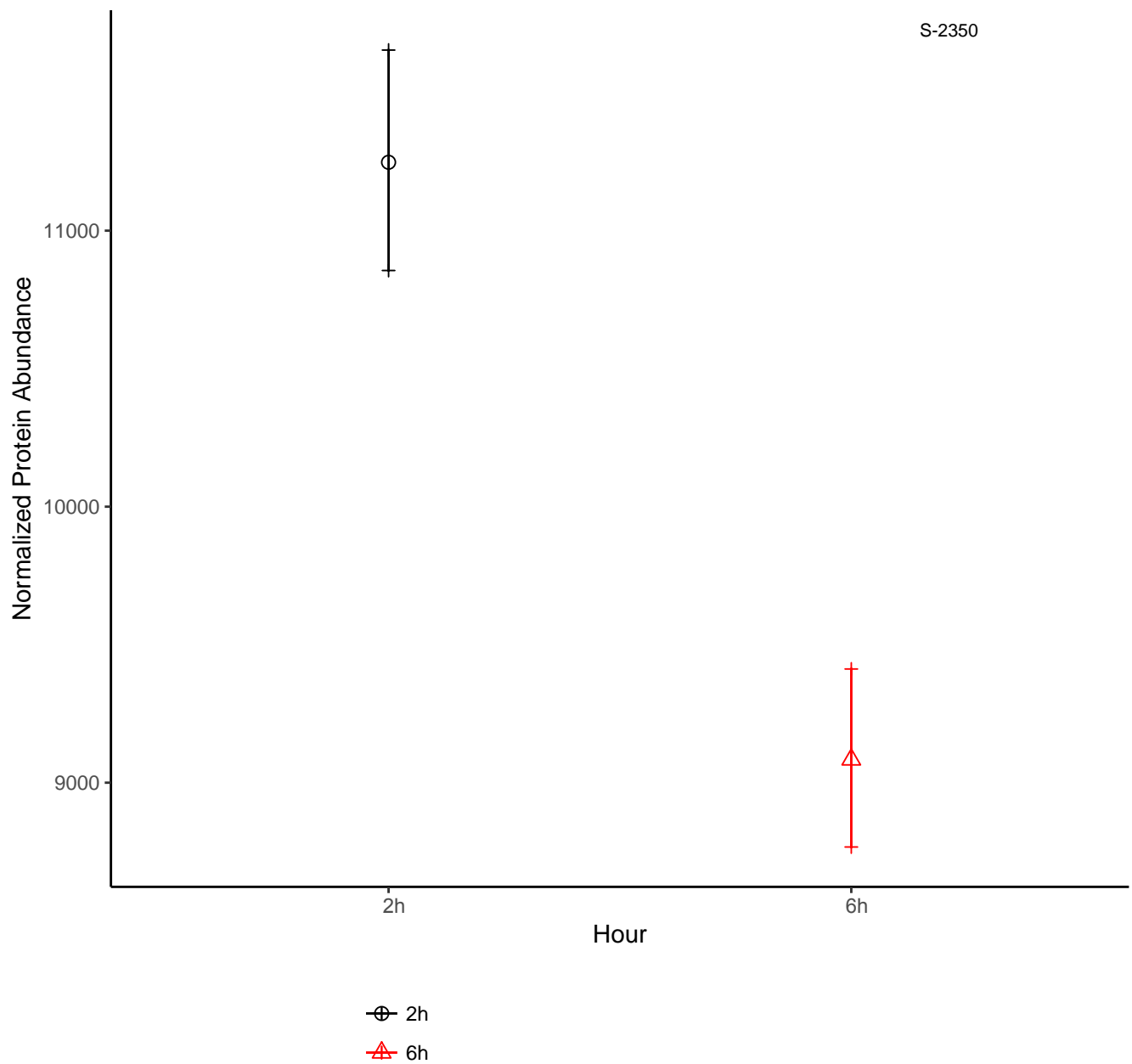


⊕ 2h

△ 6h

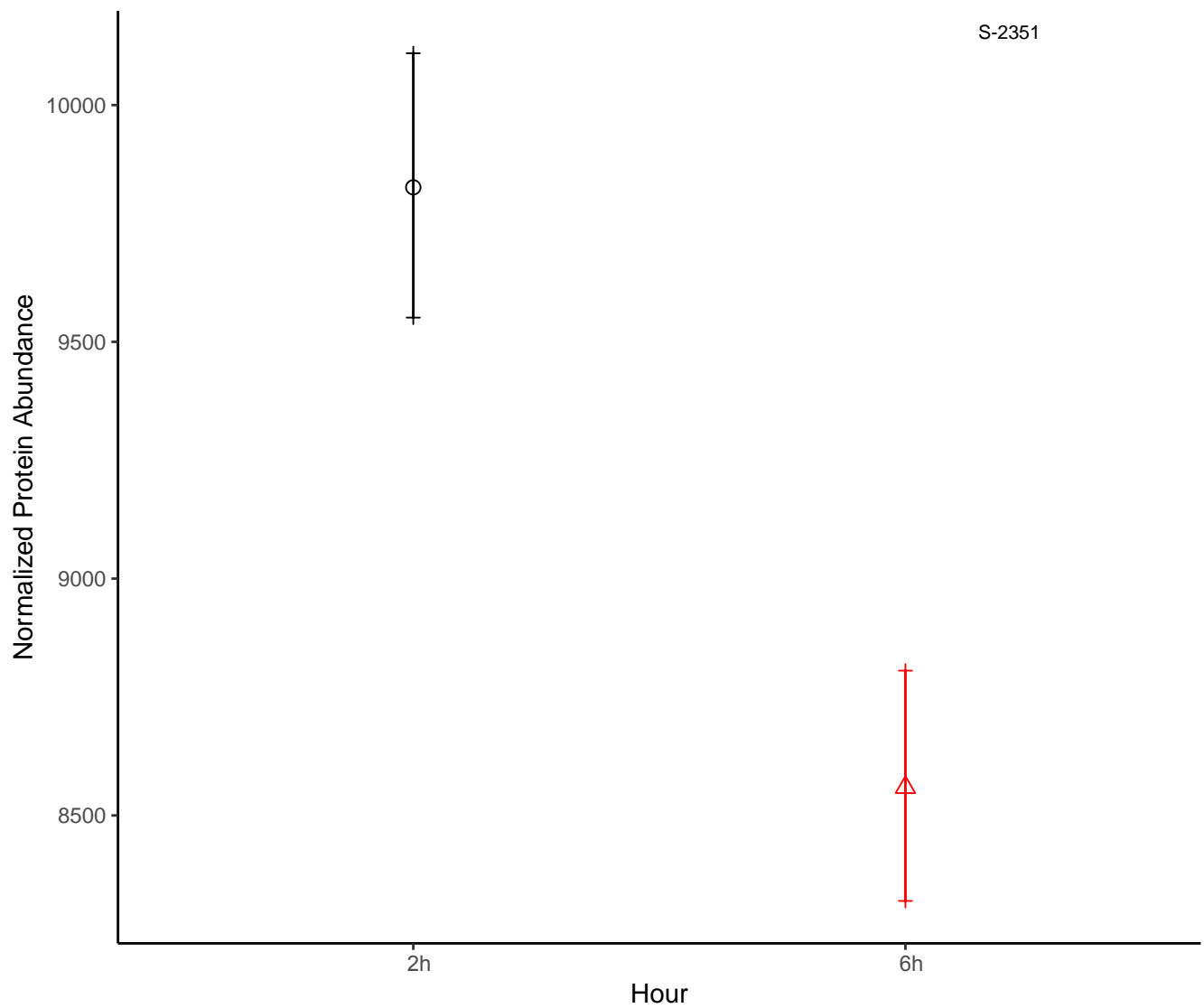
# RPOB\_STAAM

S-2350



# RPOC\_STAAM

S-2351

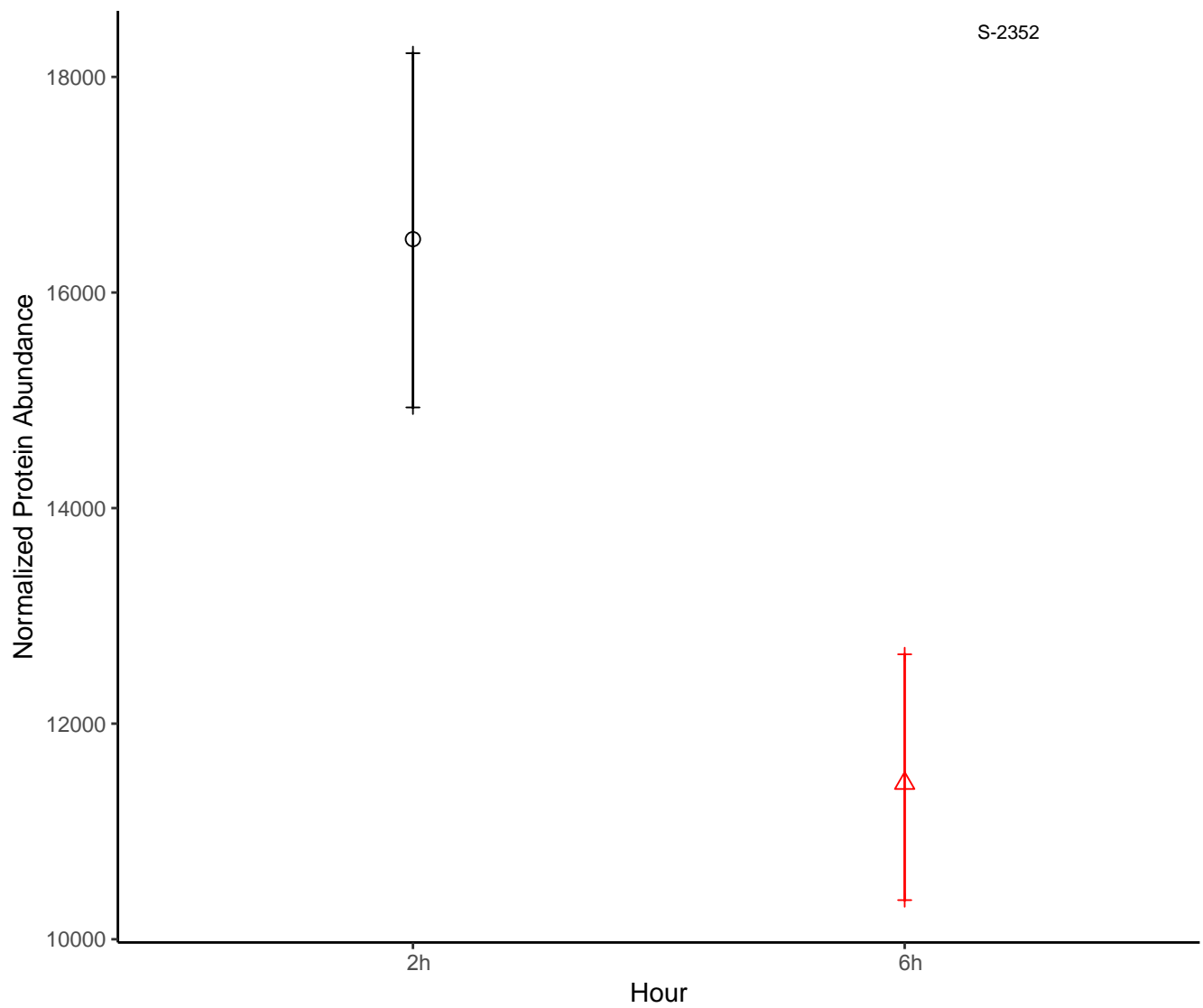


⊕ 2h

△ 6h

# RPOE\_STAAM

S-2352



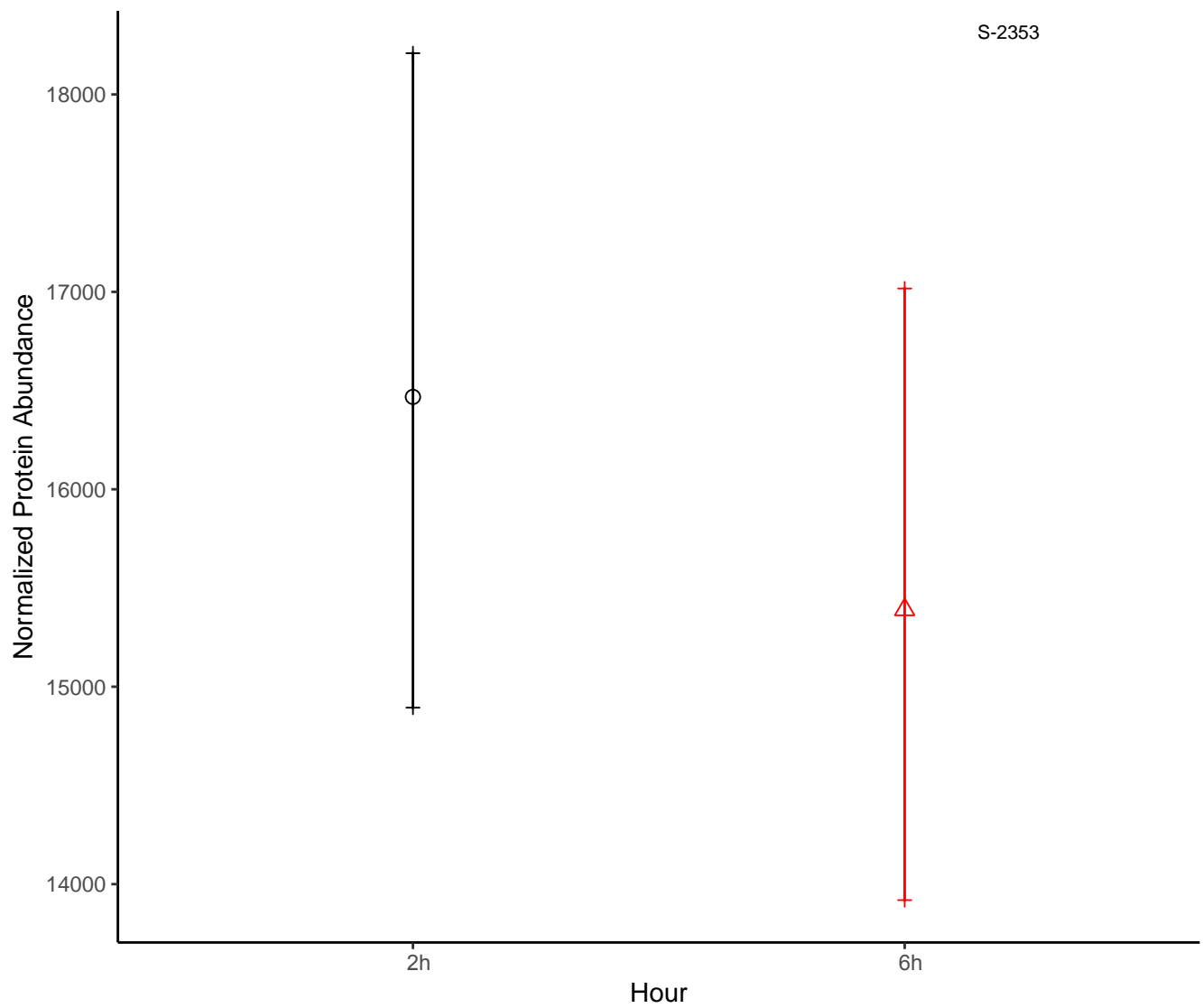
⊕ 2h

△ 6h



# RPOZ\_STAAM

S-2353

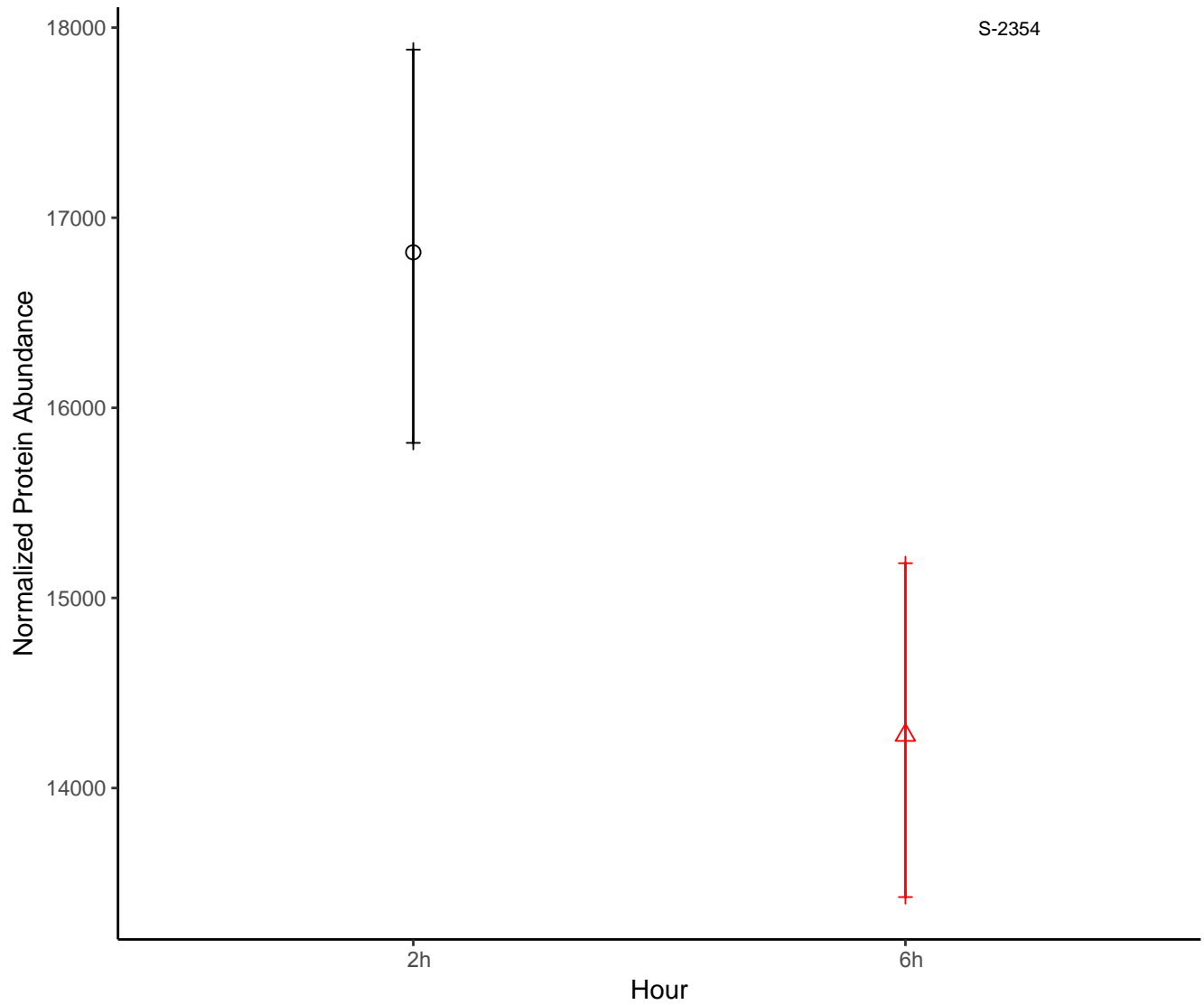


⊕ 2h

△ 6h

# RRF\_STAAM

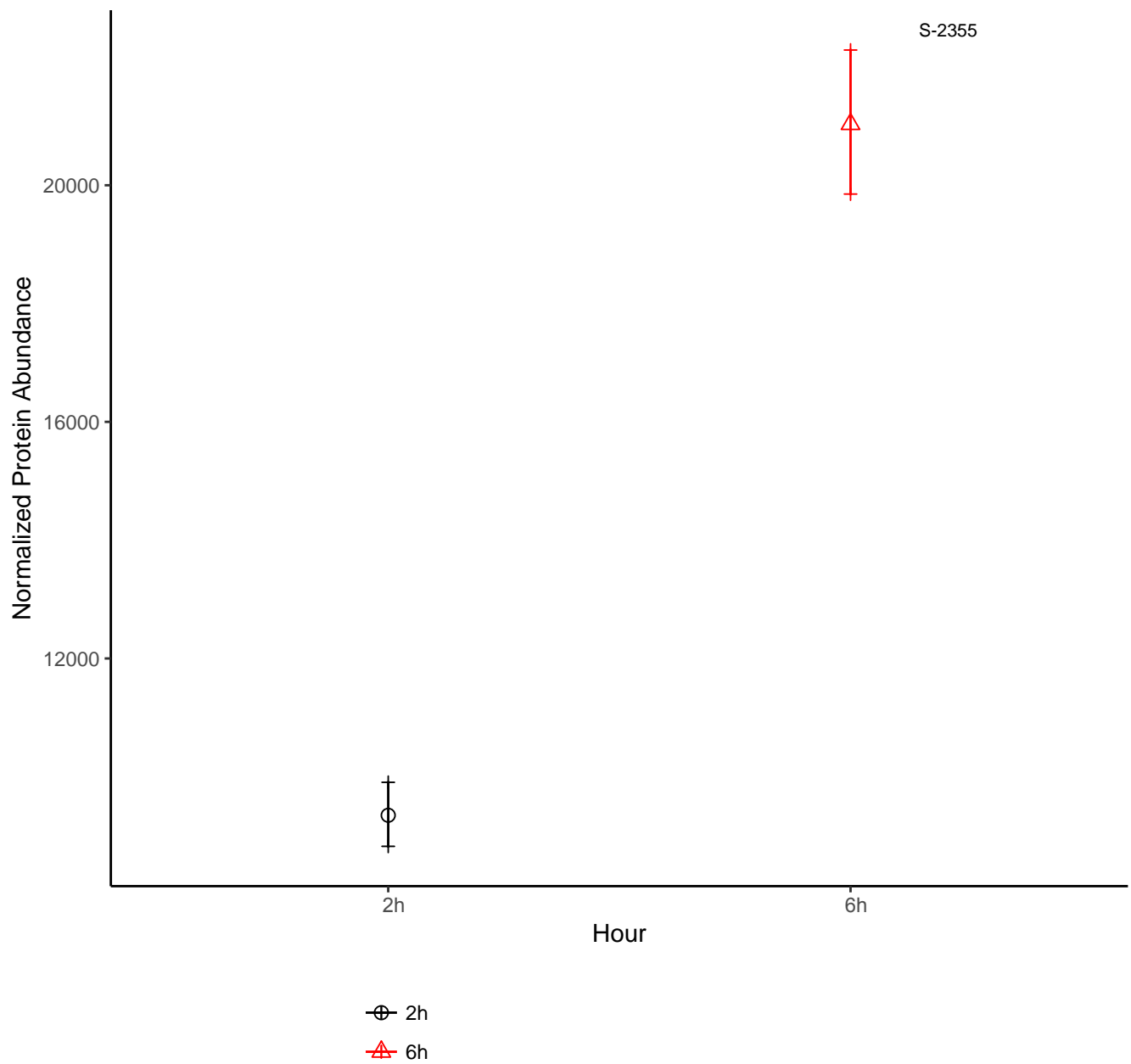
S-2354



⊕ 2h

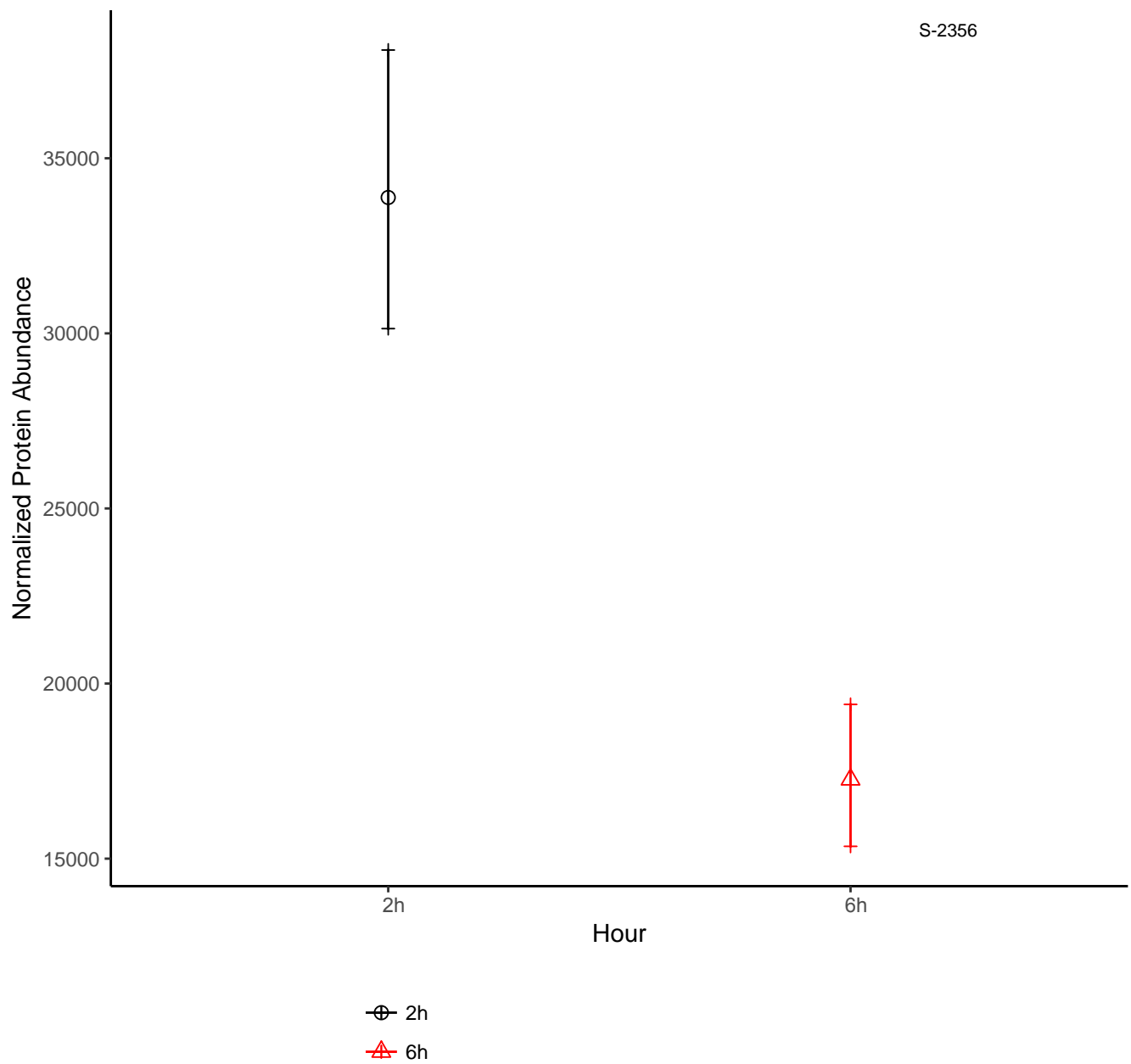
△ 6h

# RS1\_STAAM



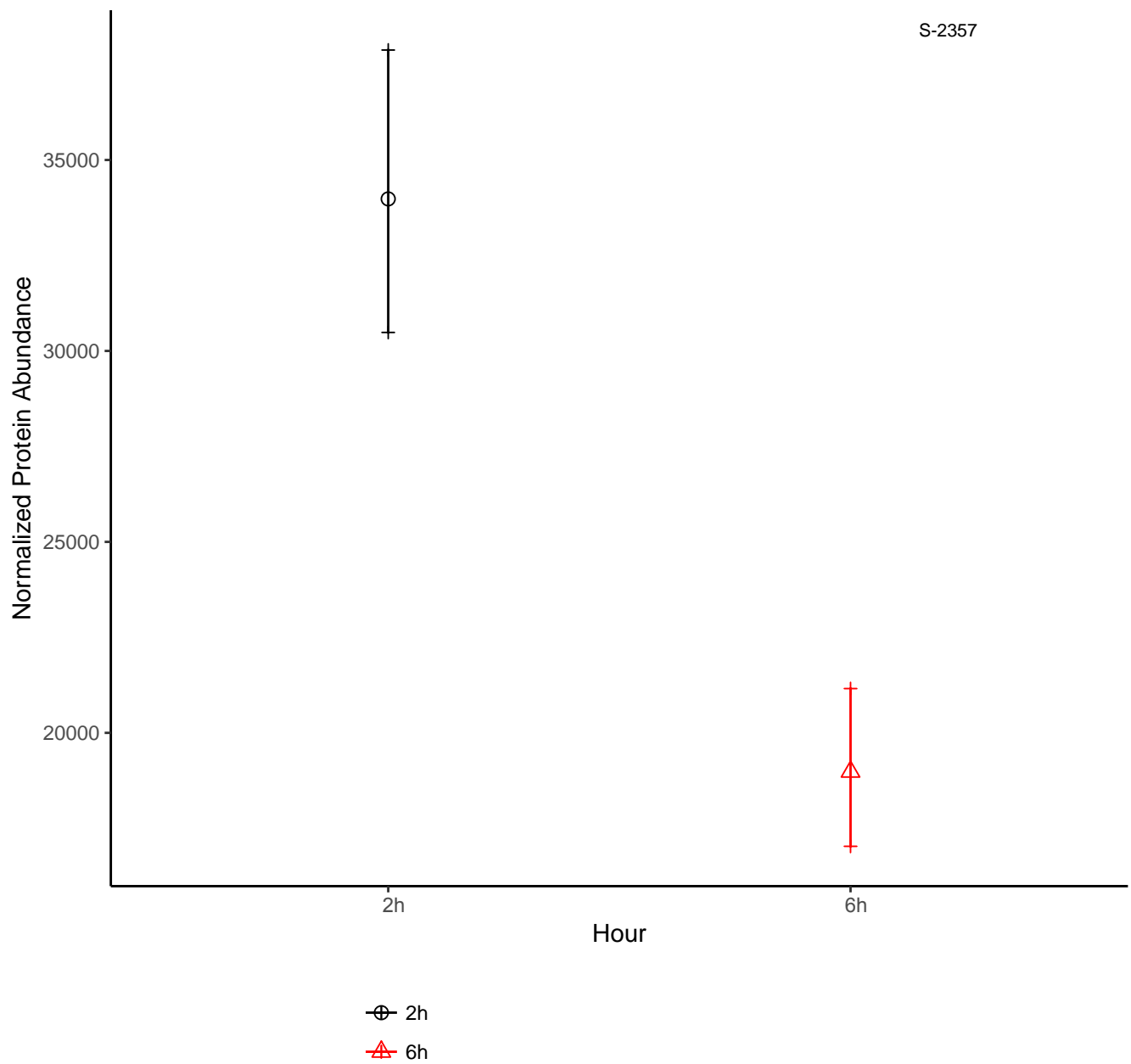
# RS10\_STAAM

S-2356



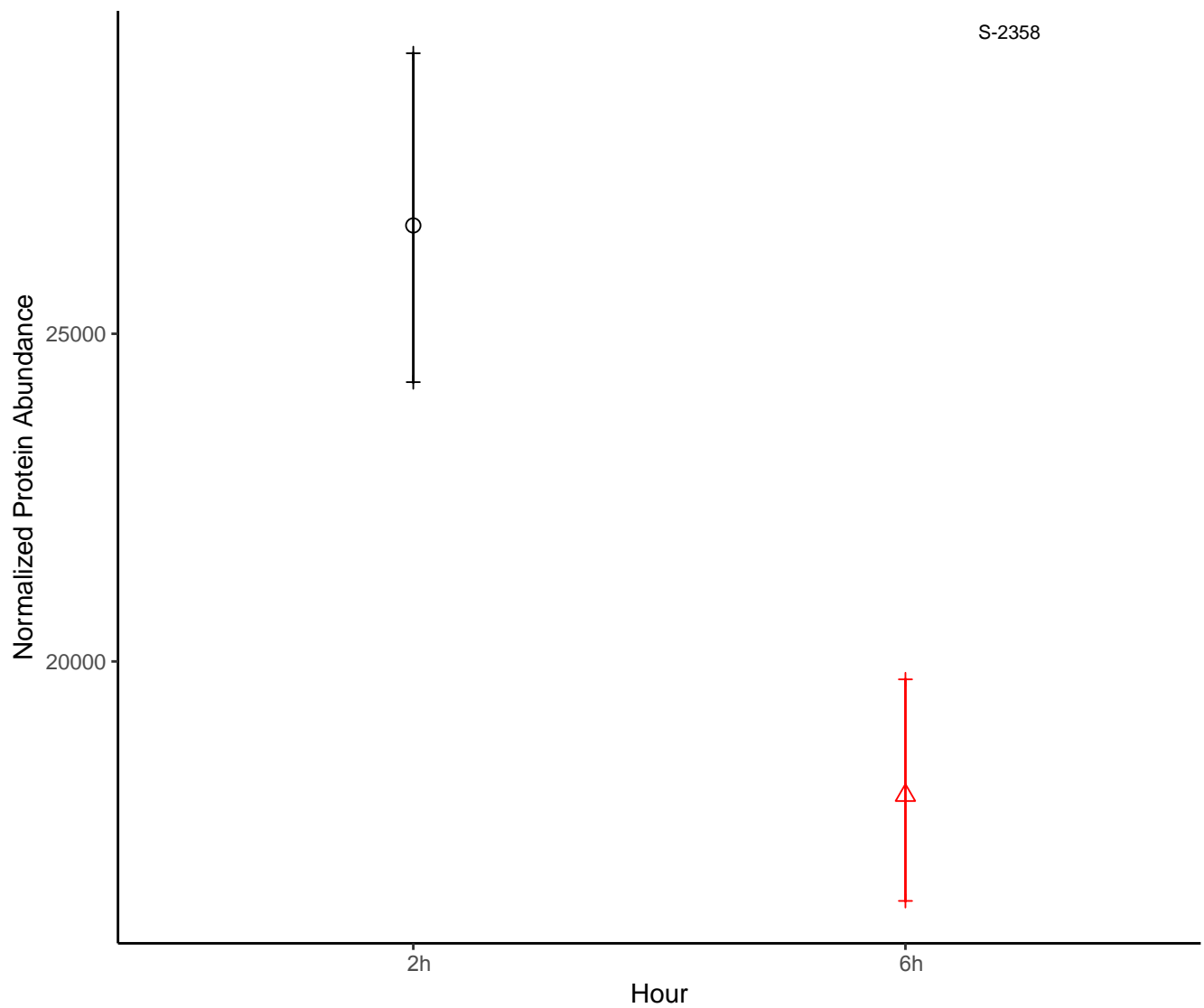
# RS11\_STAAM

S-2357



# RS12\_STAAM

S-2358

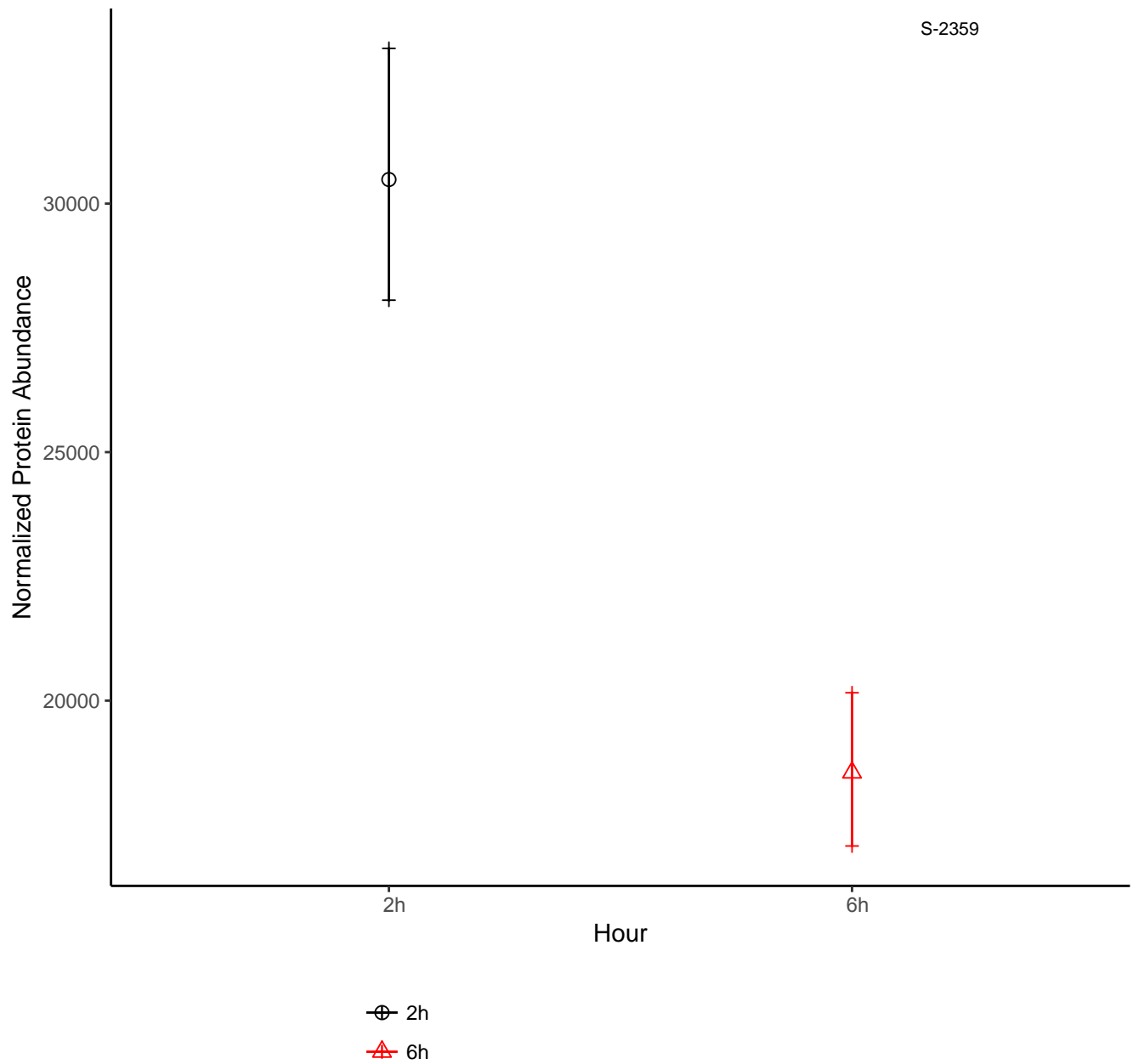


⊕ 2h

△ 6h

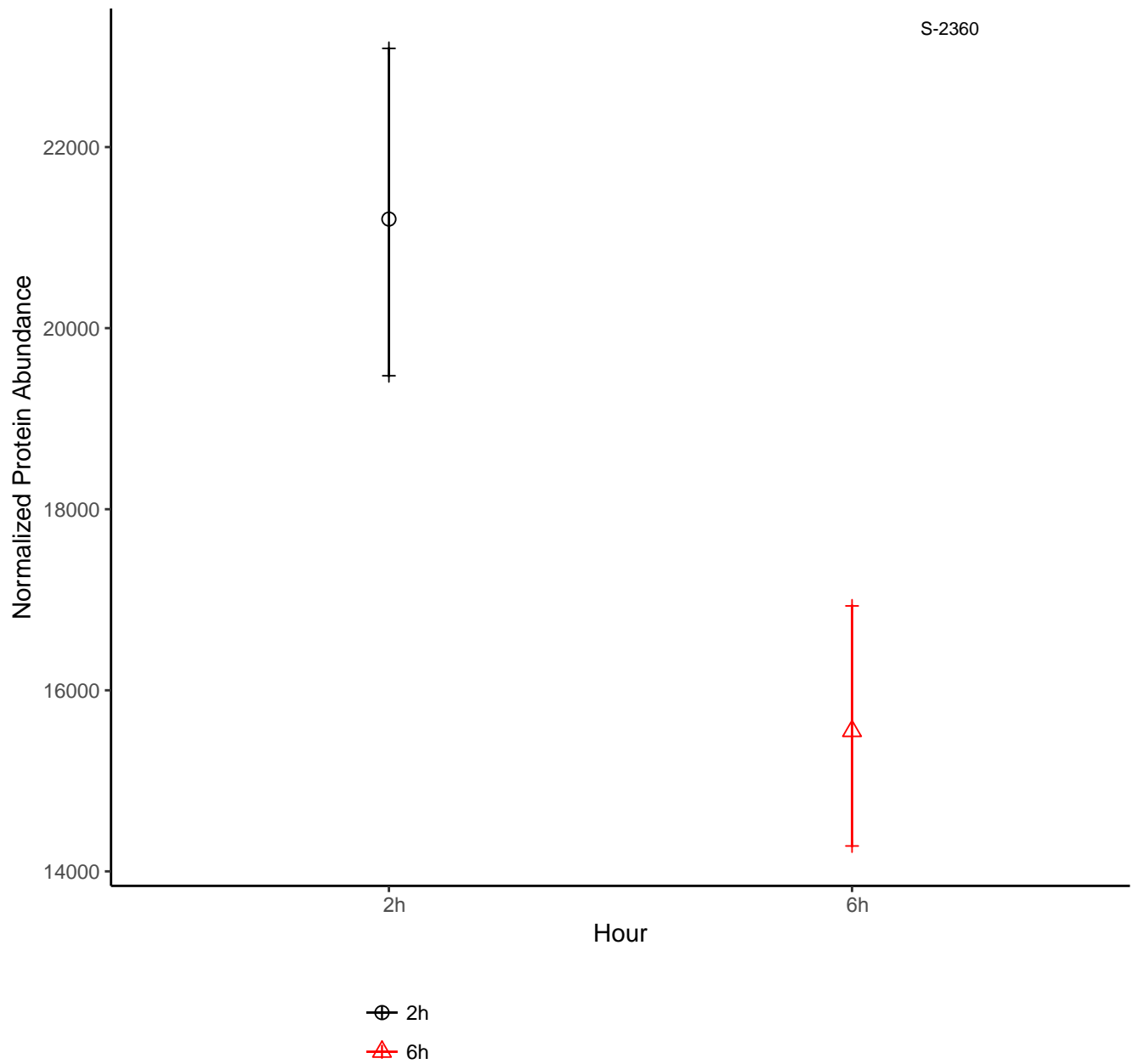
# RS13\_STAAM

S-2359



# RS15\_STAAM

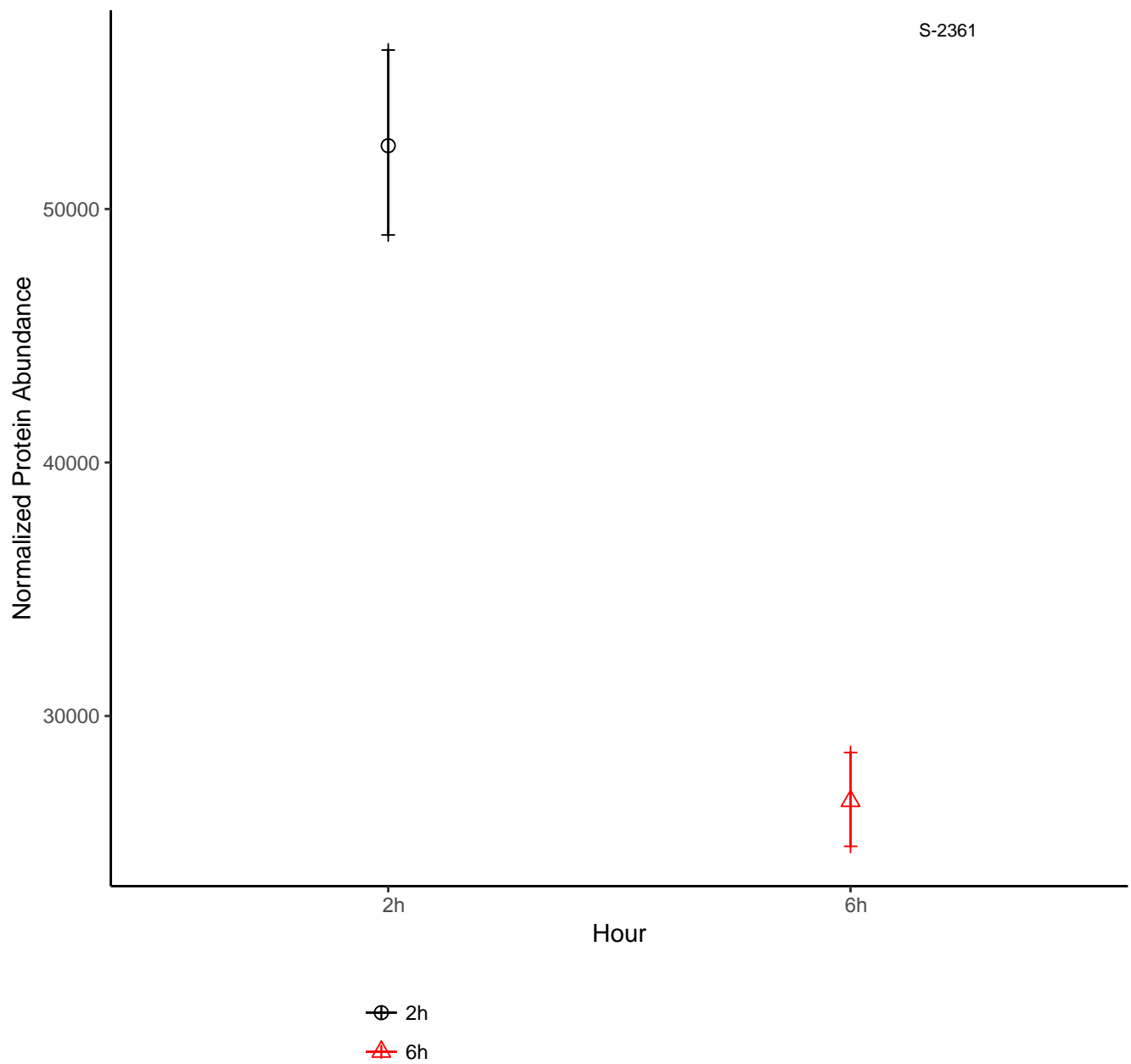
S-2360





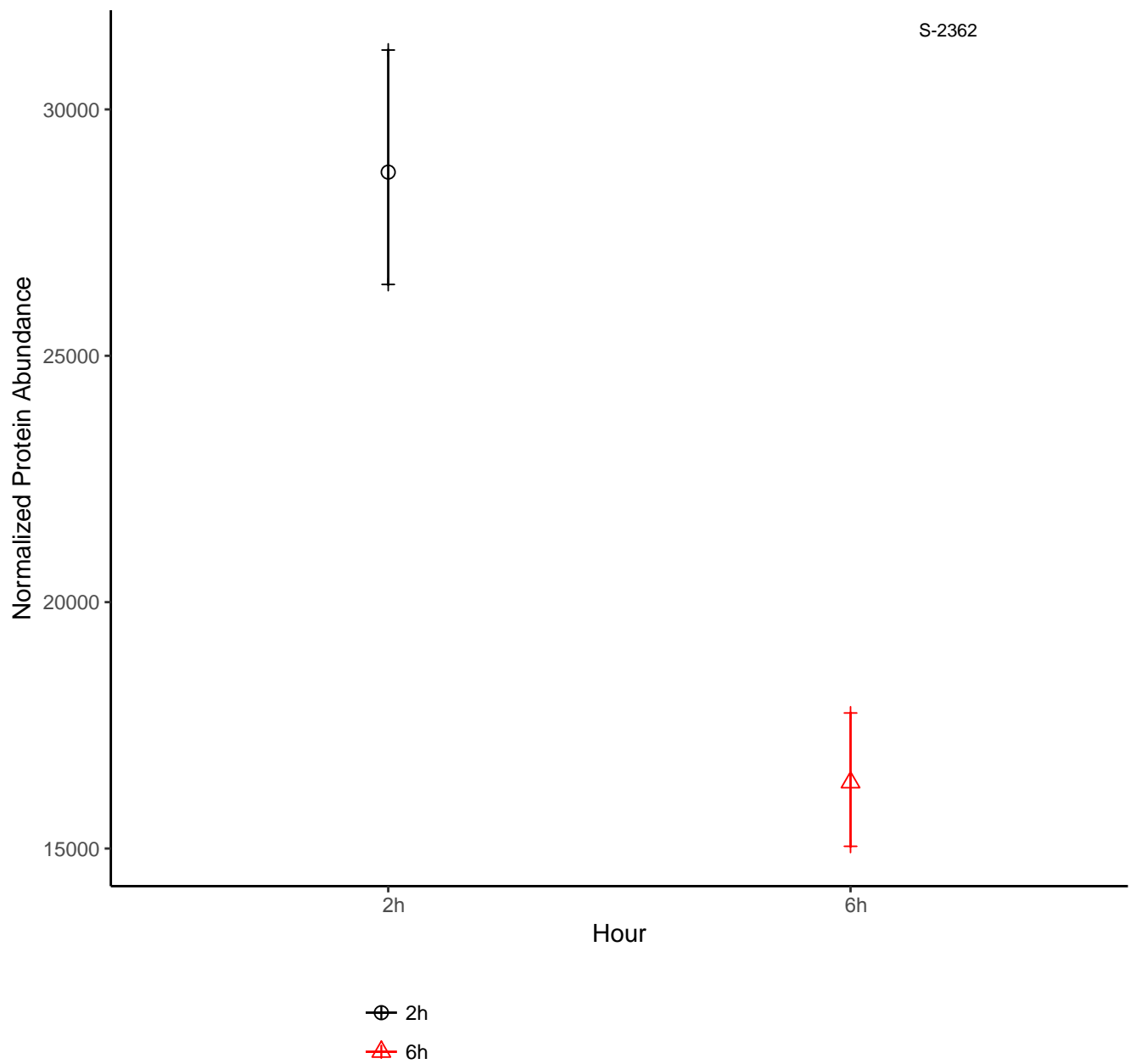
# RS16\_STAAM

S-2361

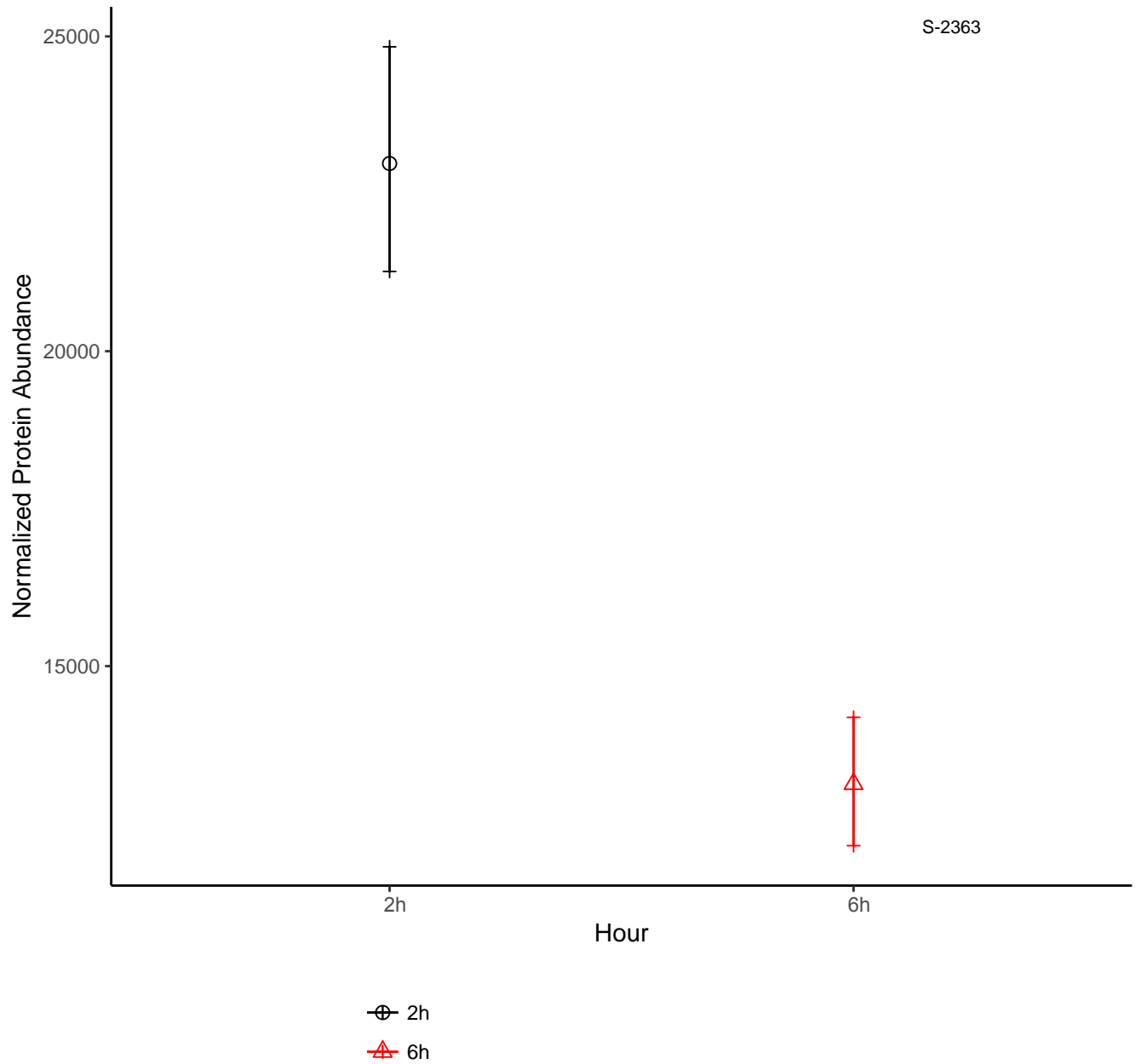


# RS17\_STAAM

S-2362

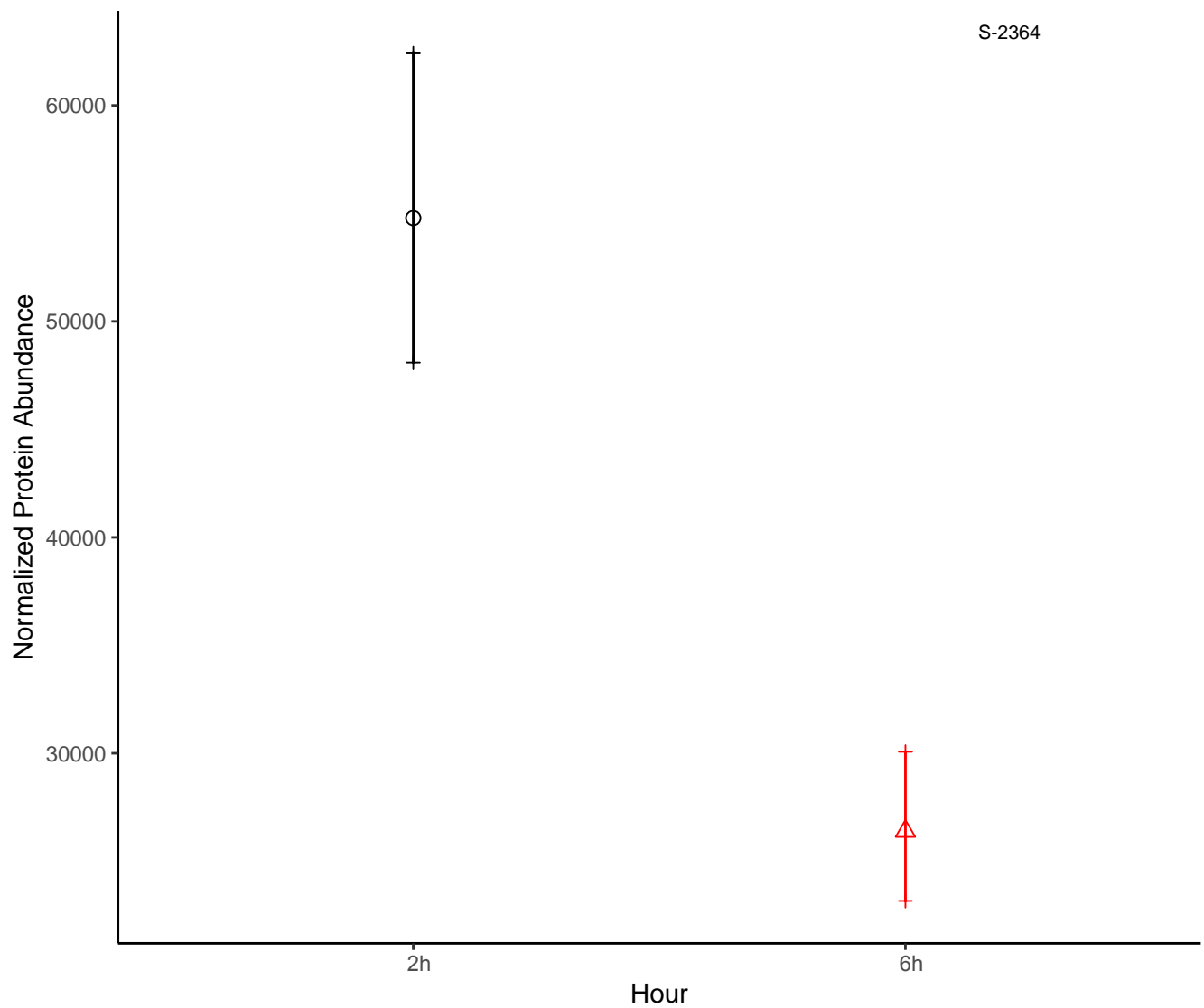


# RS18\_STAAM



# RS19\_STAAM

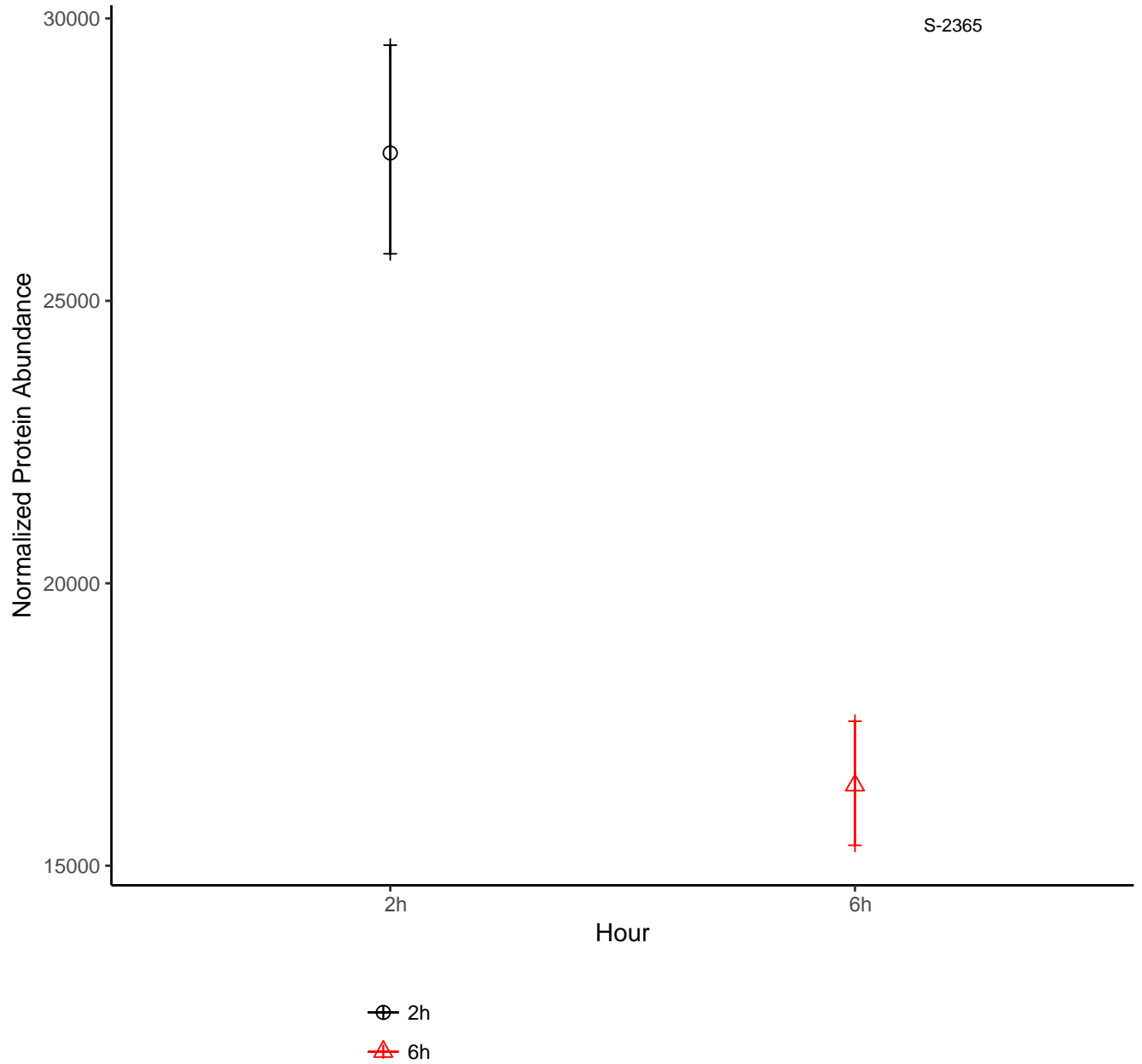
S-2364



⊕ 2h

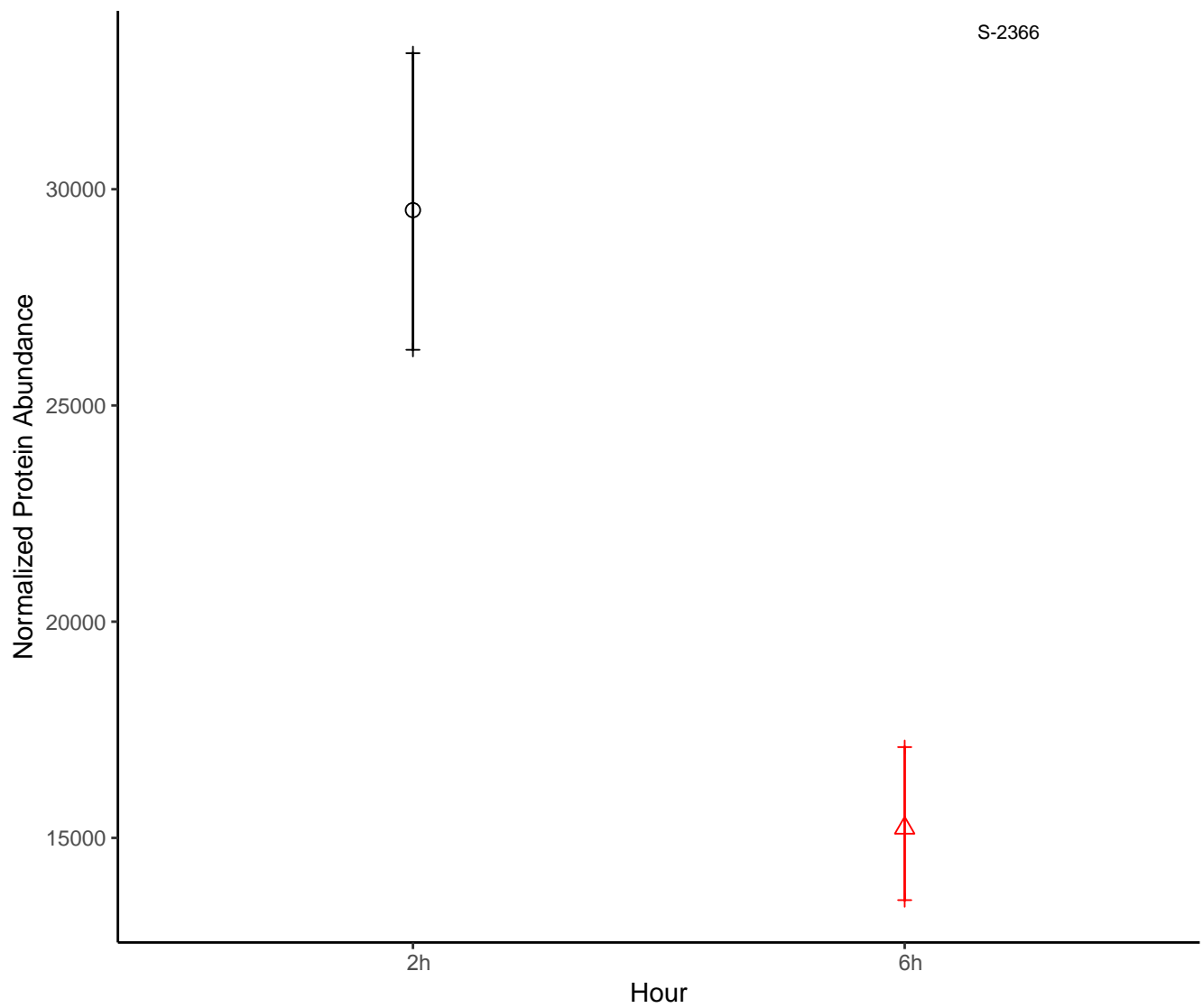
△ 6h

# RS2\_STAAM



# RS20\_STAAM

S-2366

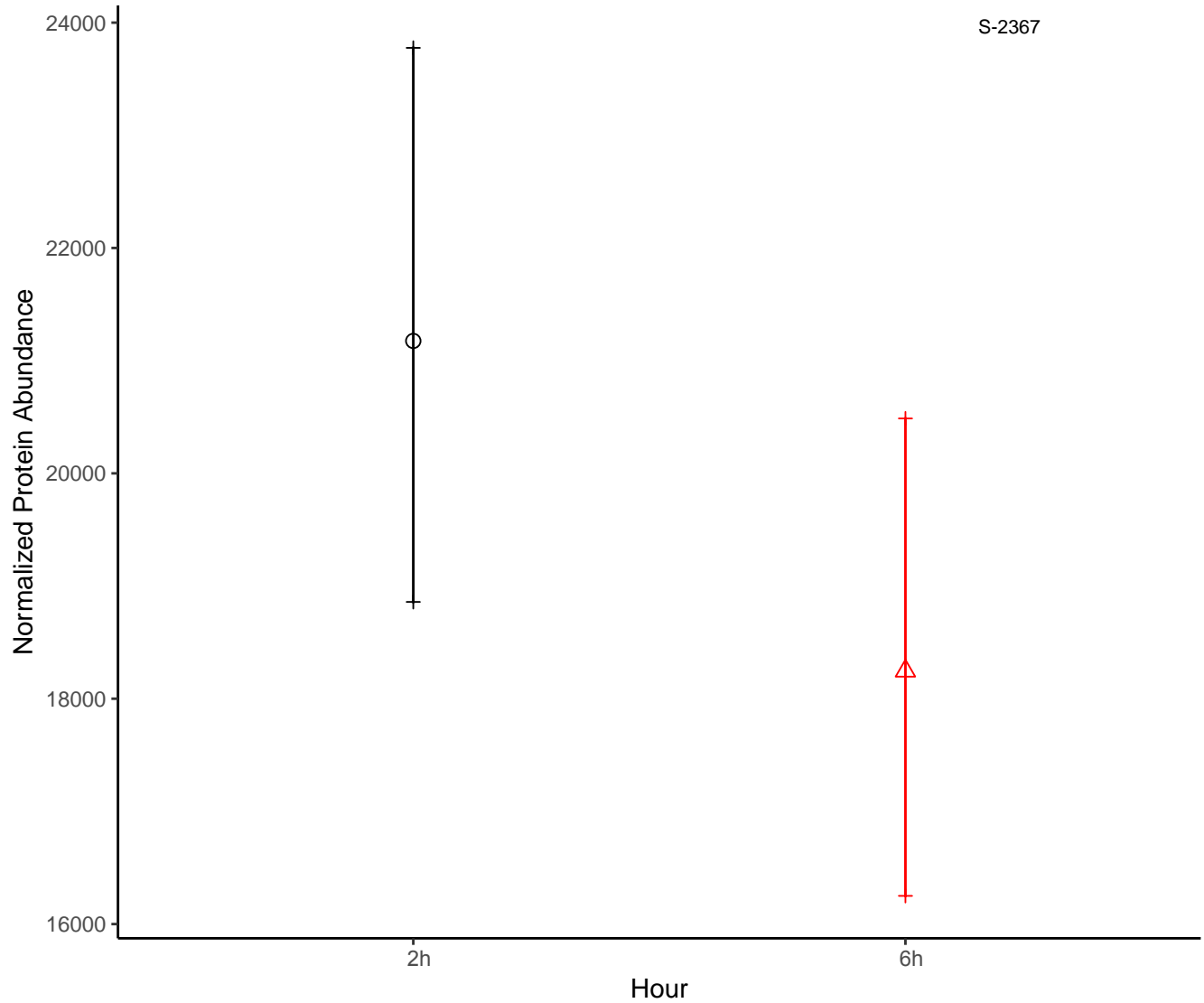


⊕ 2h

△ 6h

# RS21\_STAAM

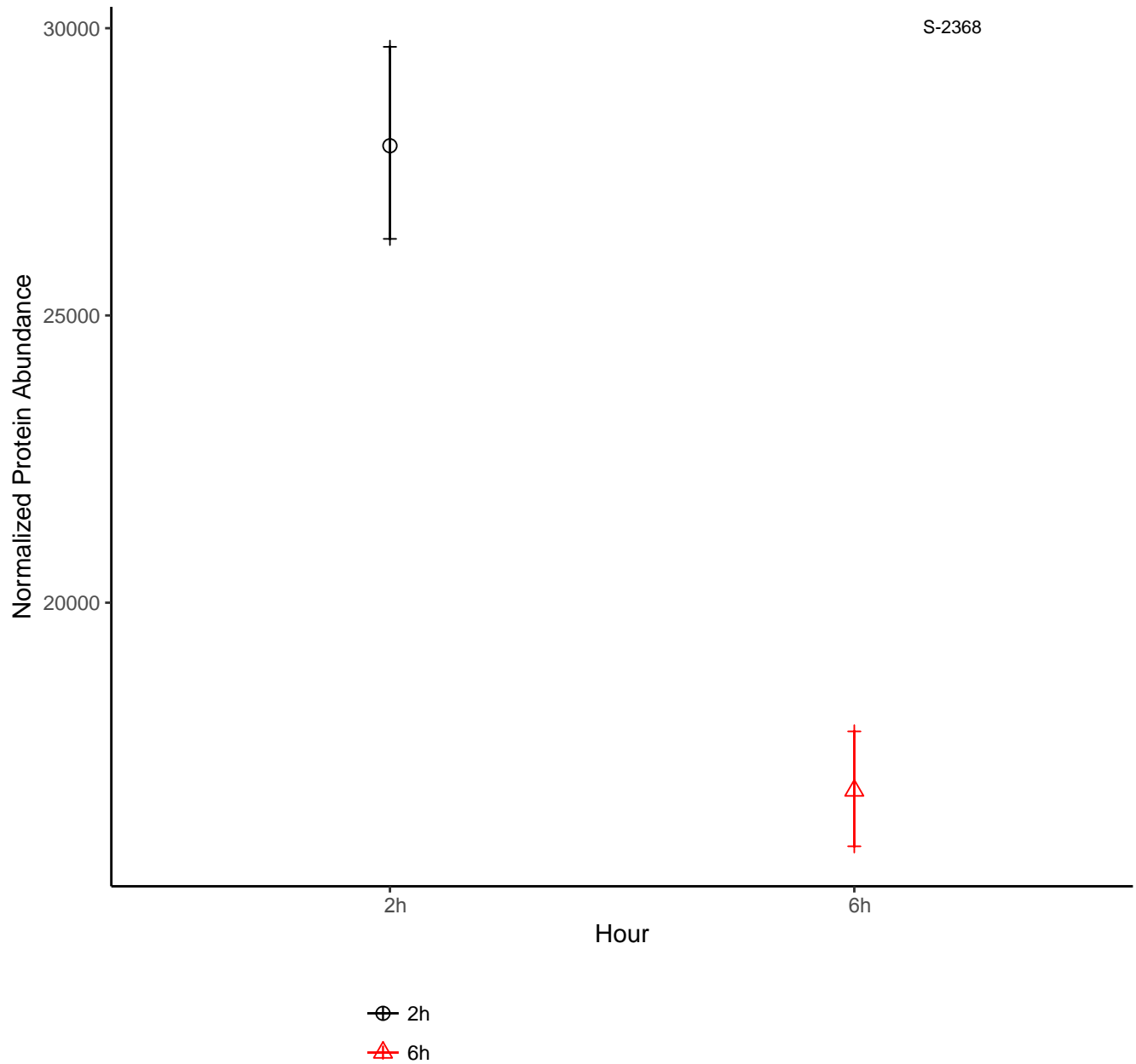
S-2367



⊕ 2h

△ 6h

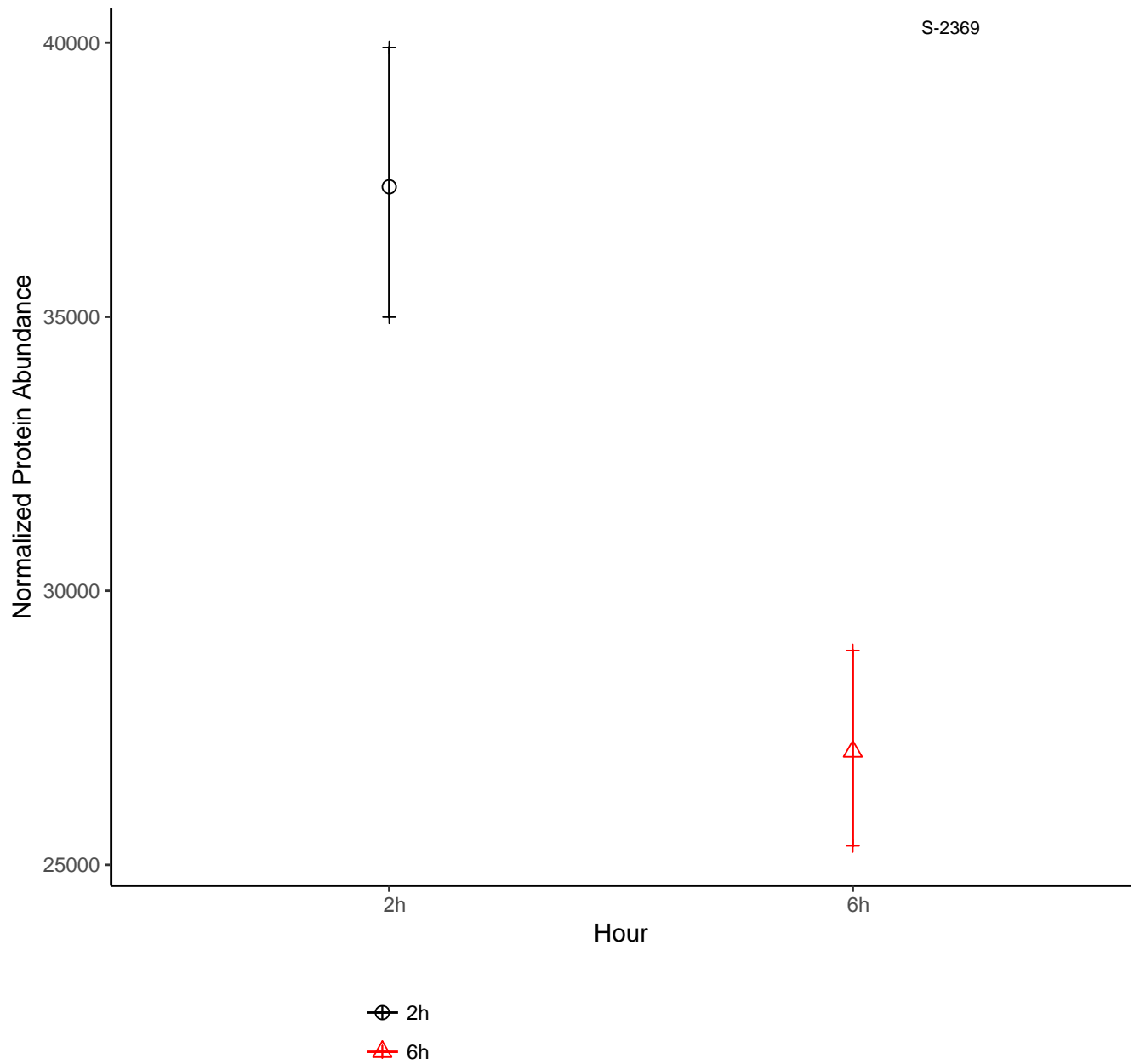
# RS3\_STAAM





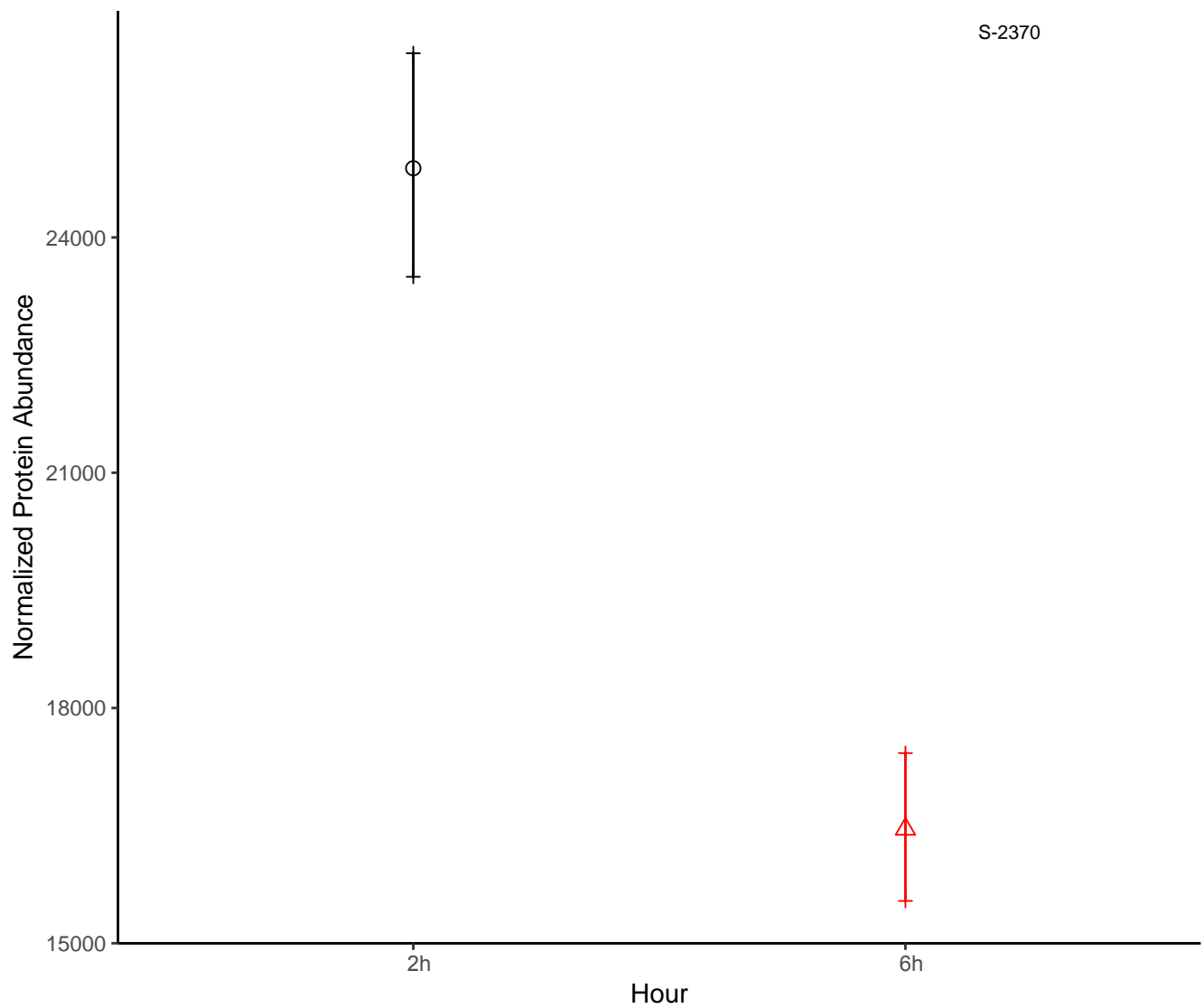
# RS4\_STAAM

S-2369



# RS5\_STAAM

S-2370

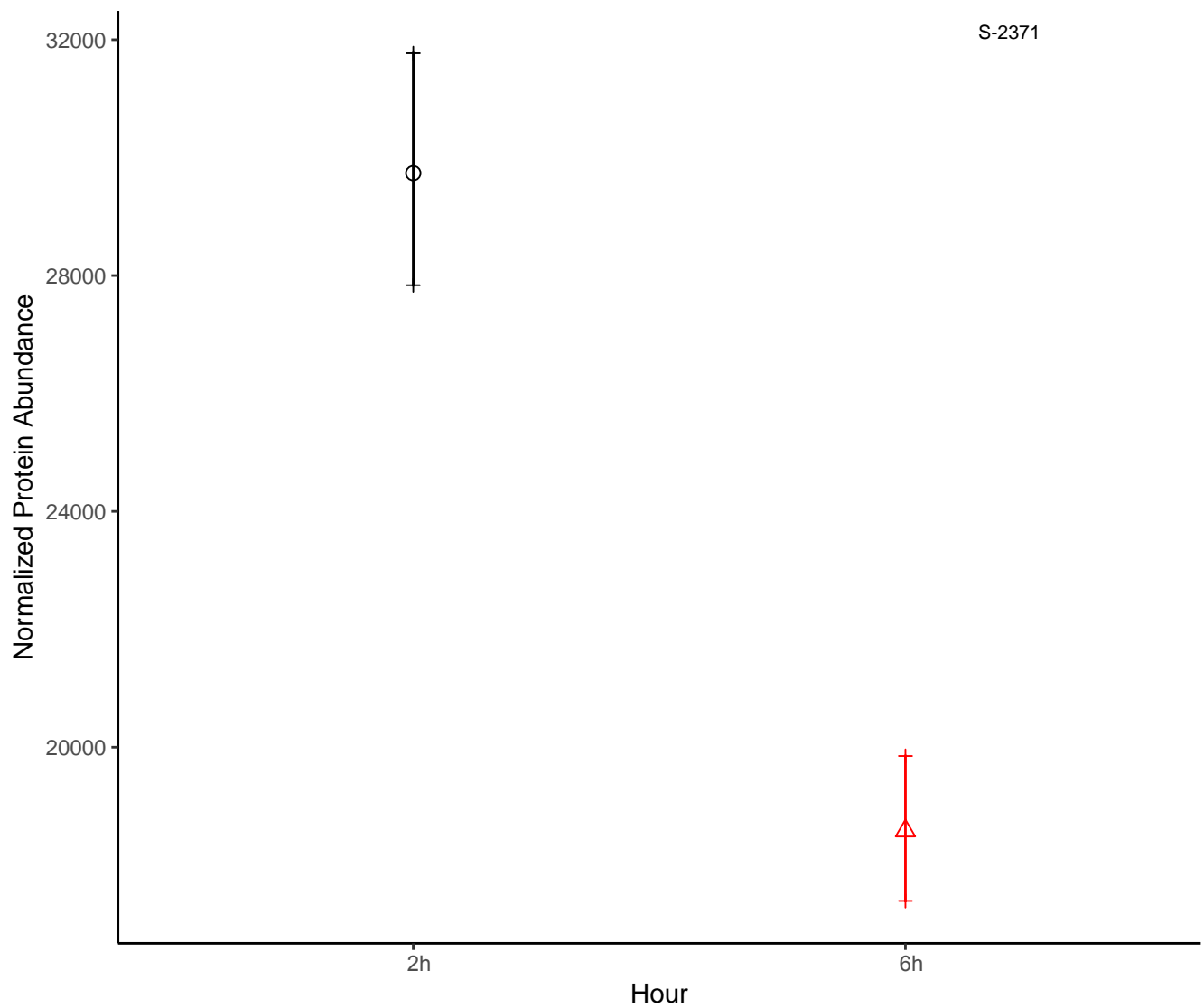


⊕ 2h

△ 6h

# RS6\_STAAM

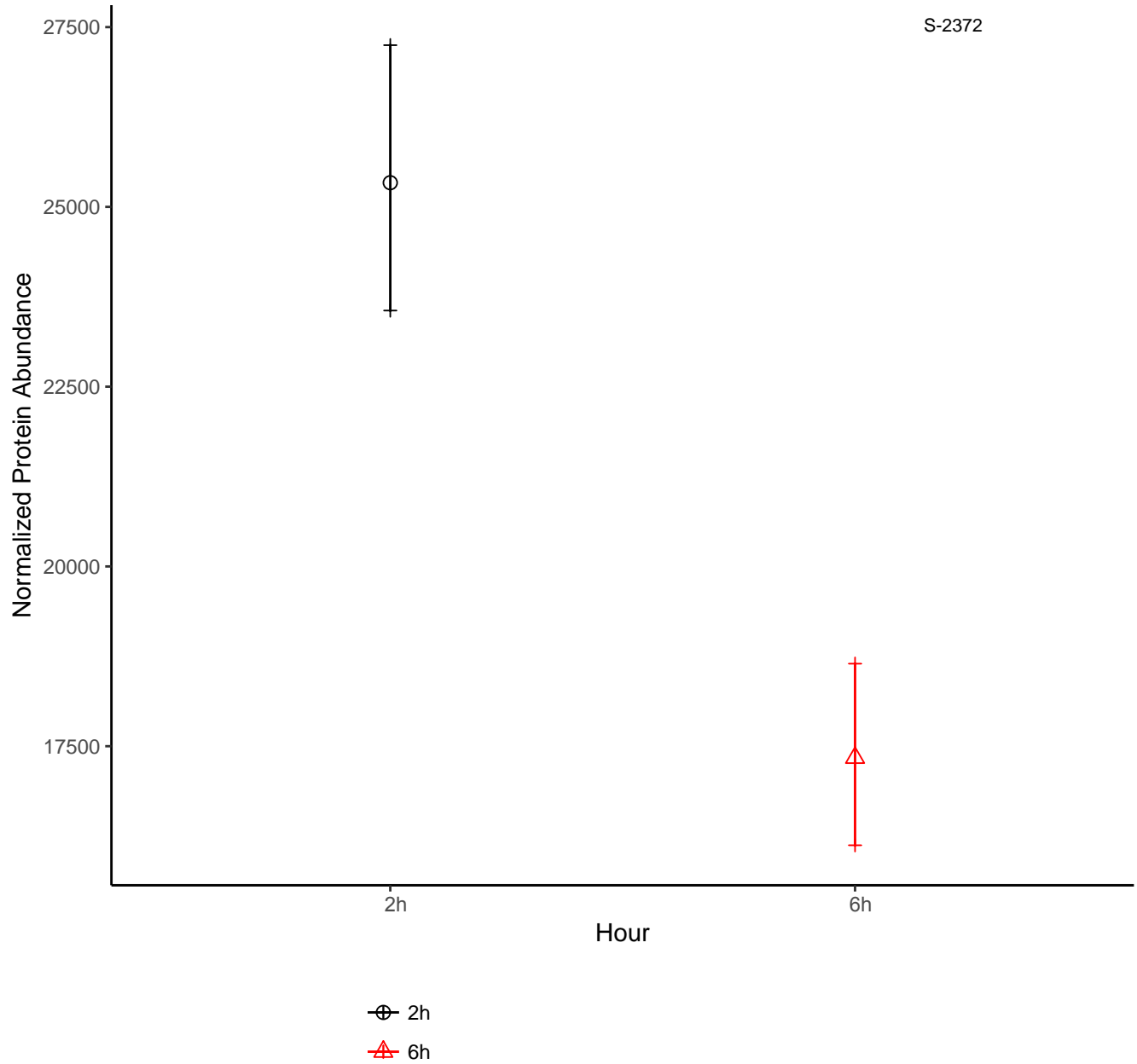
S-2371



⊕ 2h

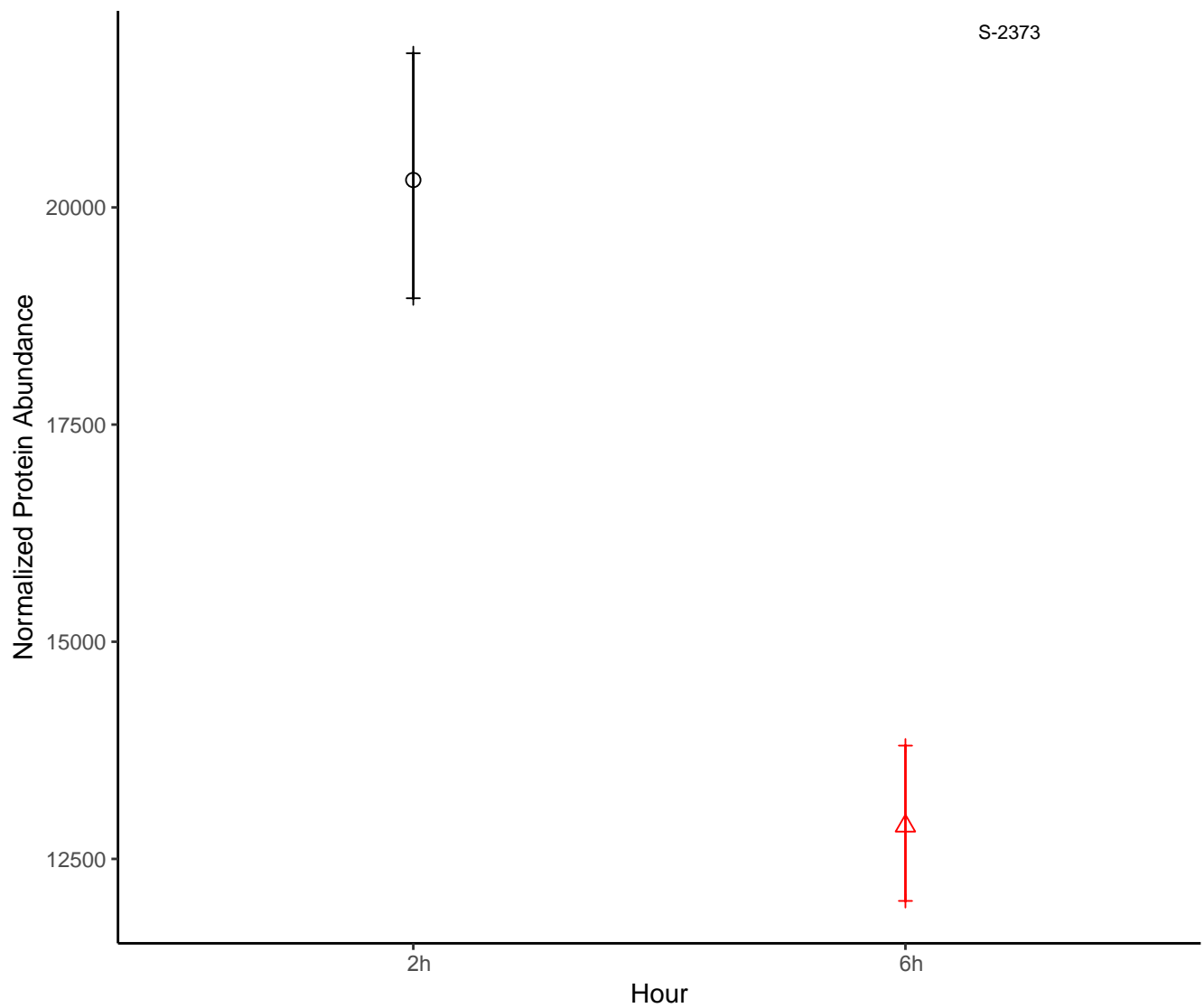
△ 6h

# RS7\_STAAM



# RS8\_STAAM

S-2373

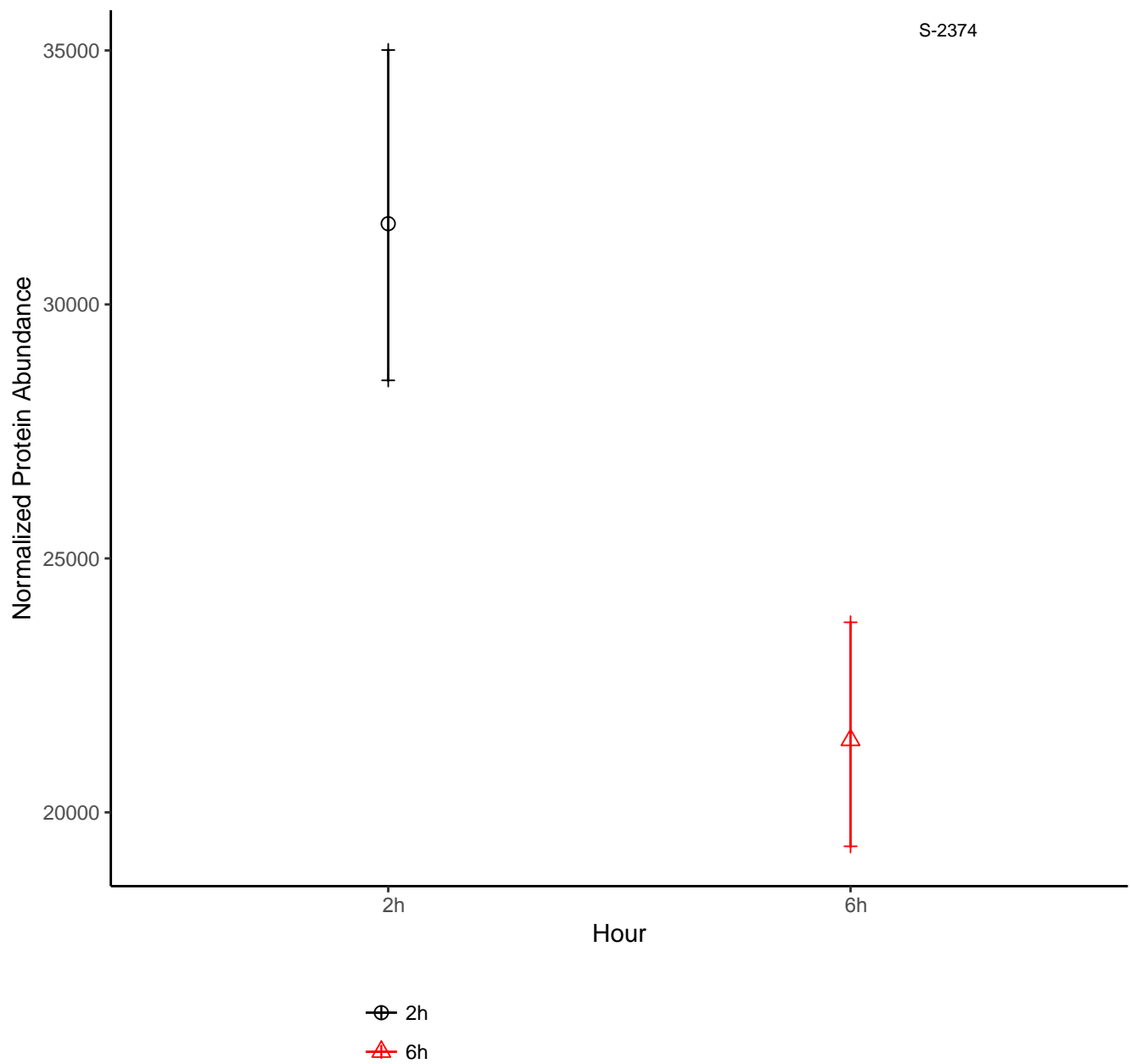


⊕ 2h

△ 6h

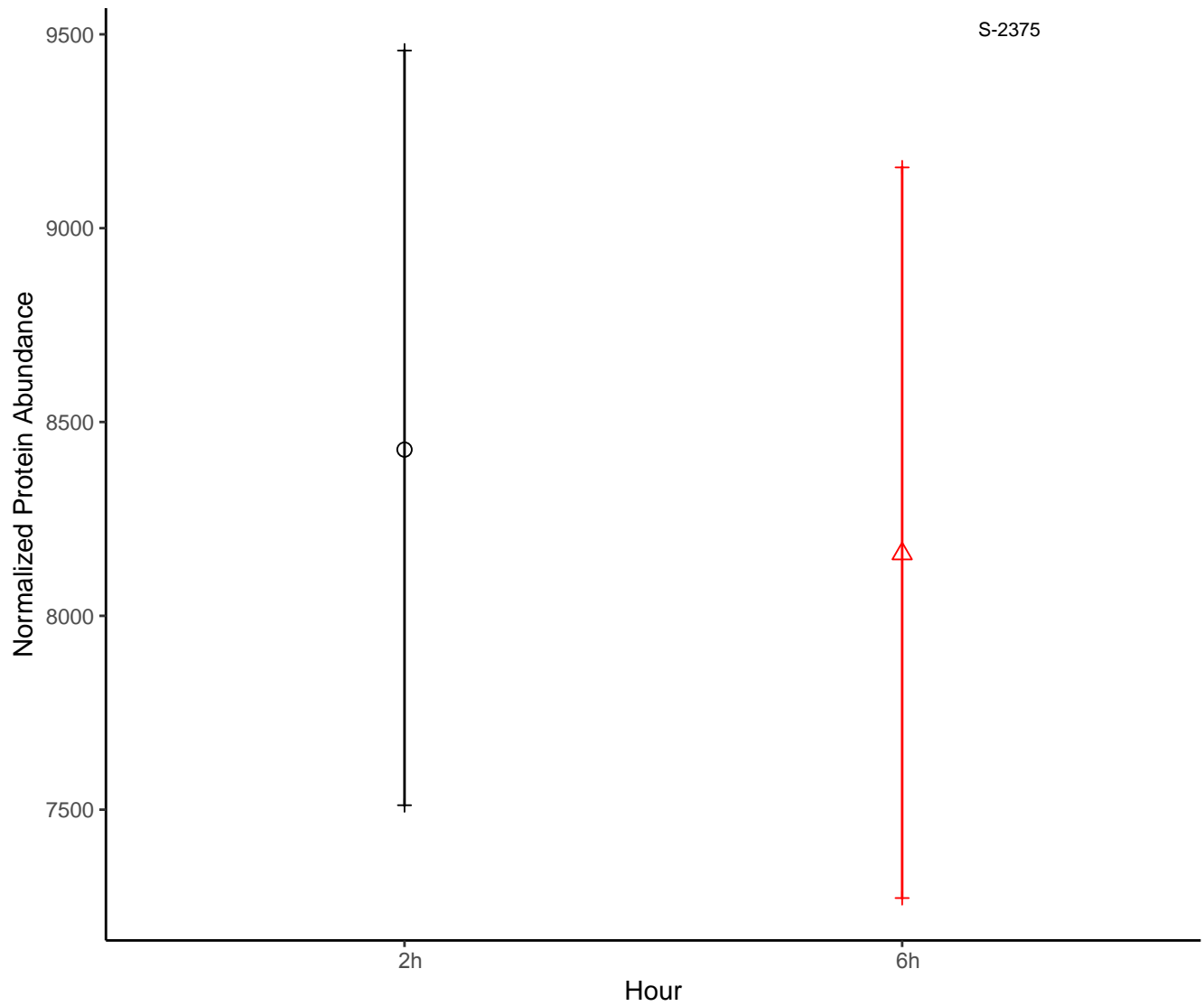
# RS9\_STAAM

S-2374



# RSBV\_STAAM

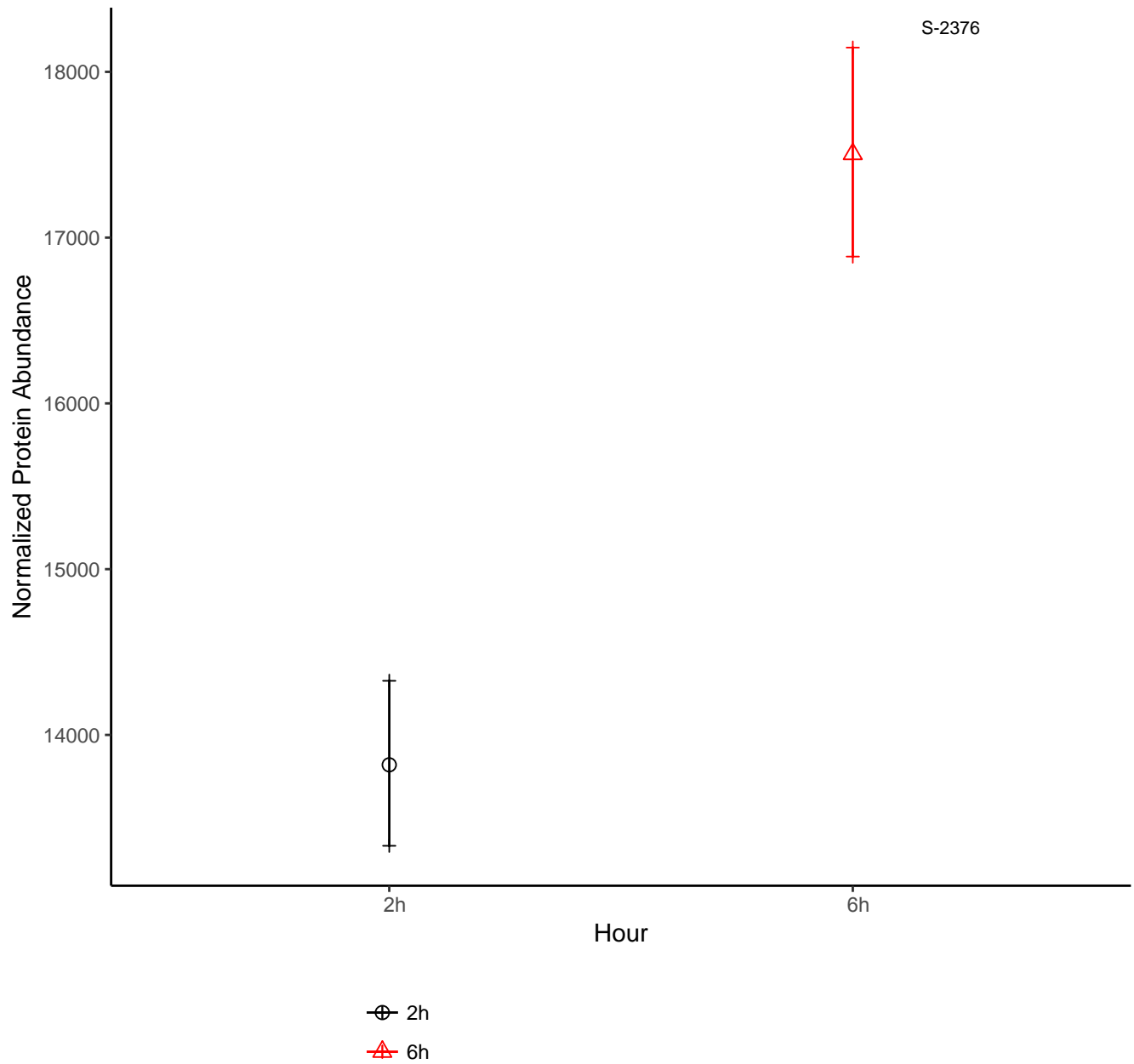
S-2375



⊕ 2h

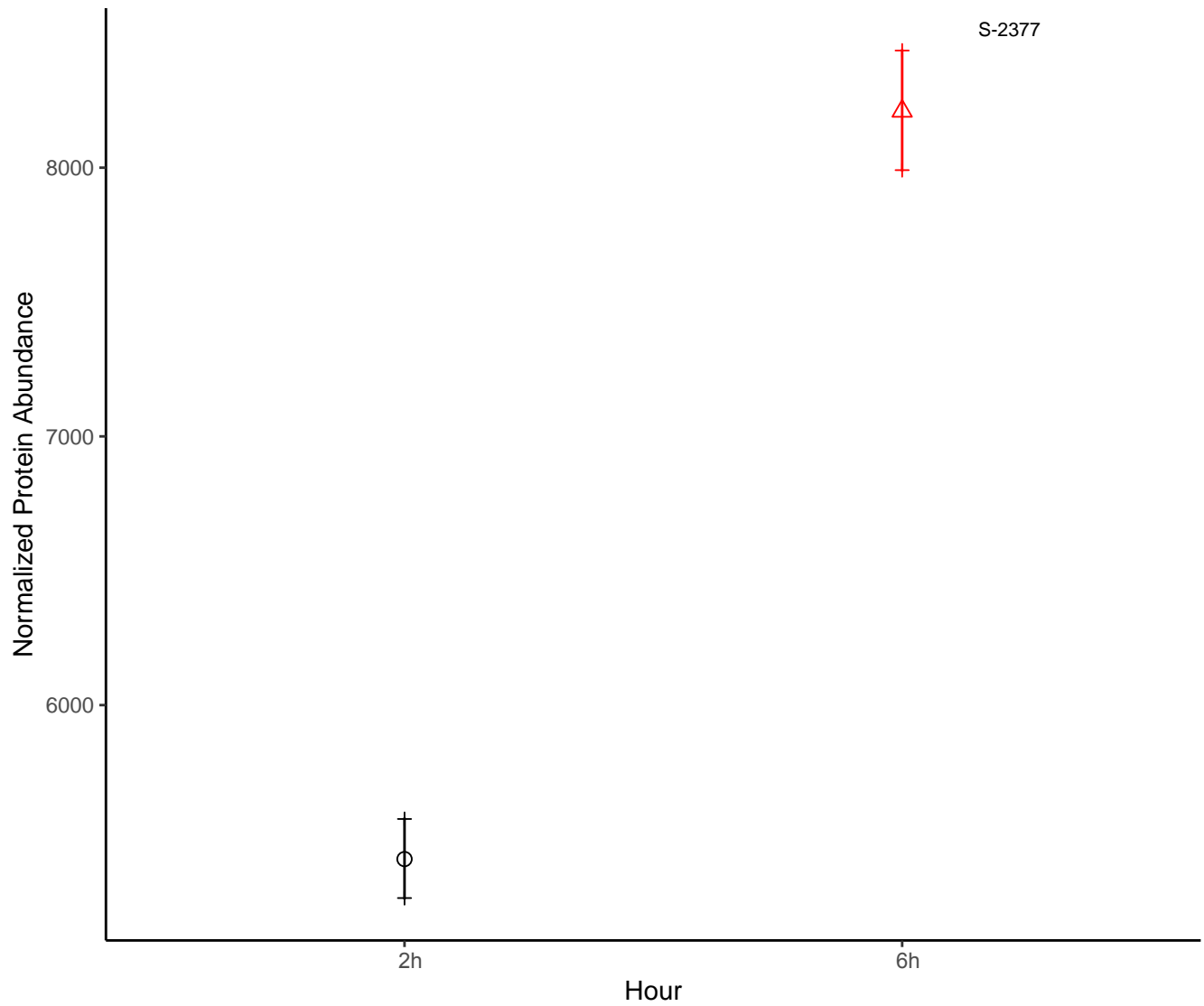
△ 6h

# RSBW\_STAAM





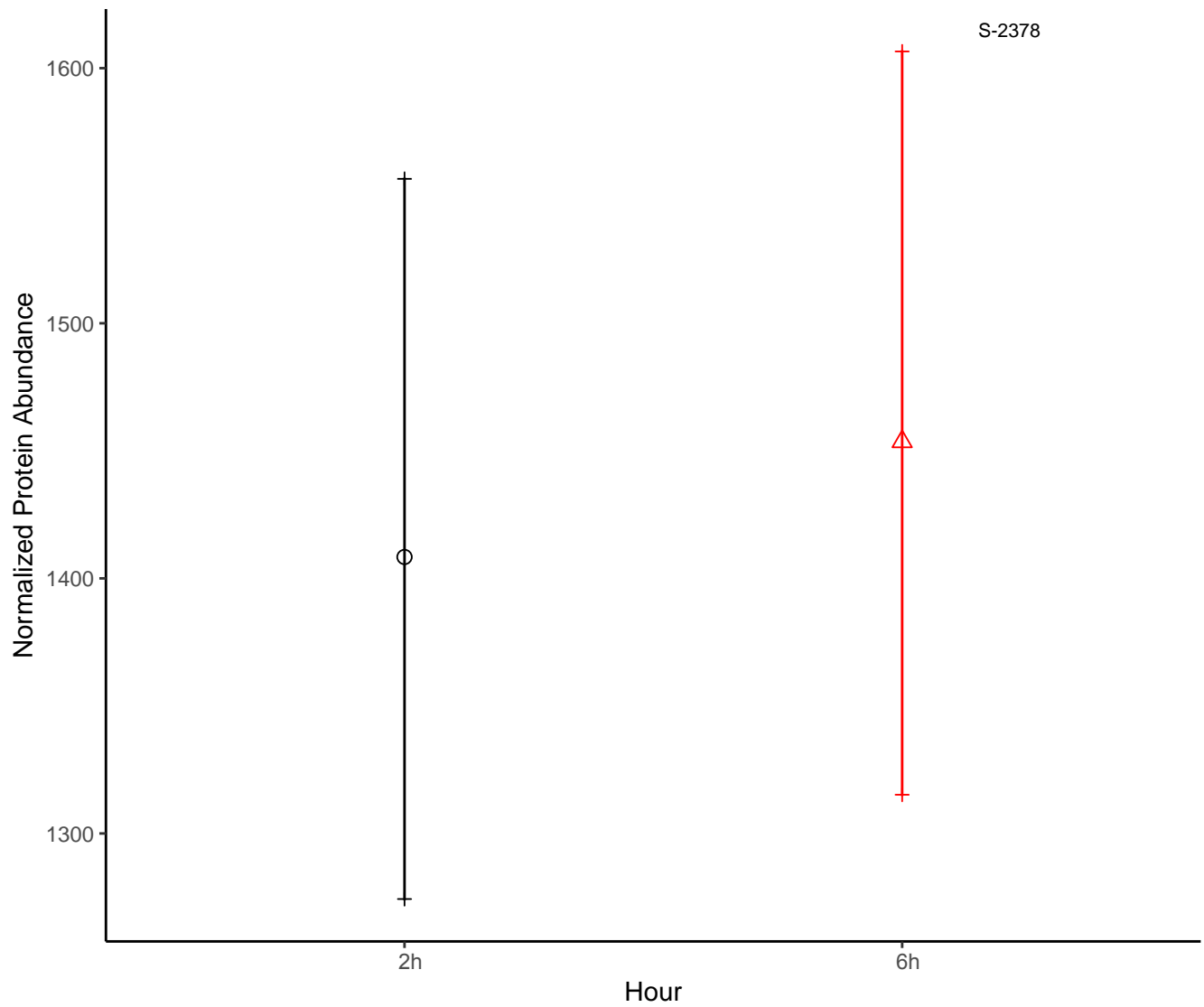
# RSMA\_STAAM



⊕ 2h

△ 6h

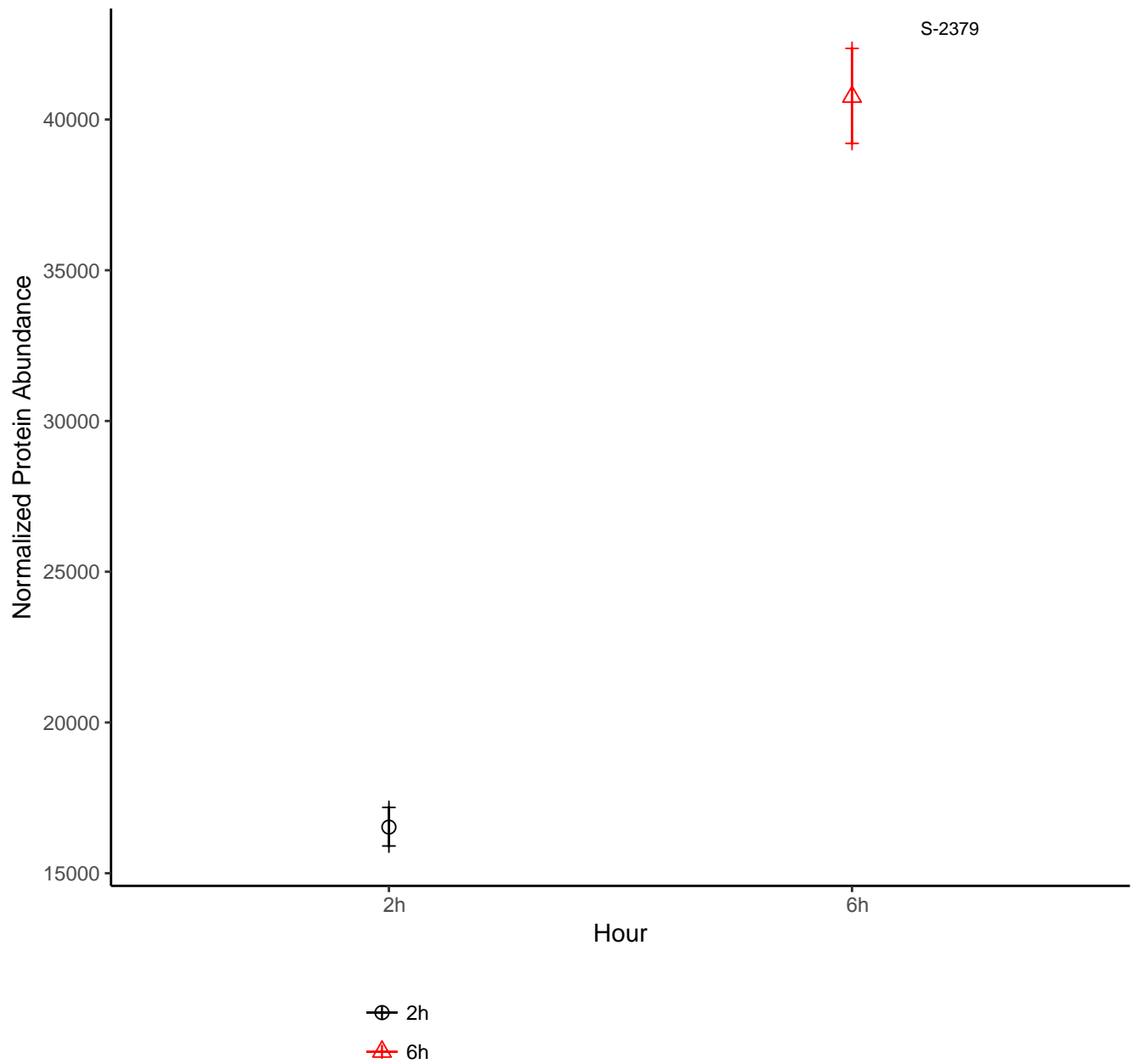
# RSMG\_STAAM



⊕ 2h

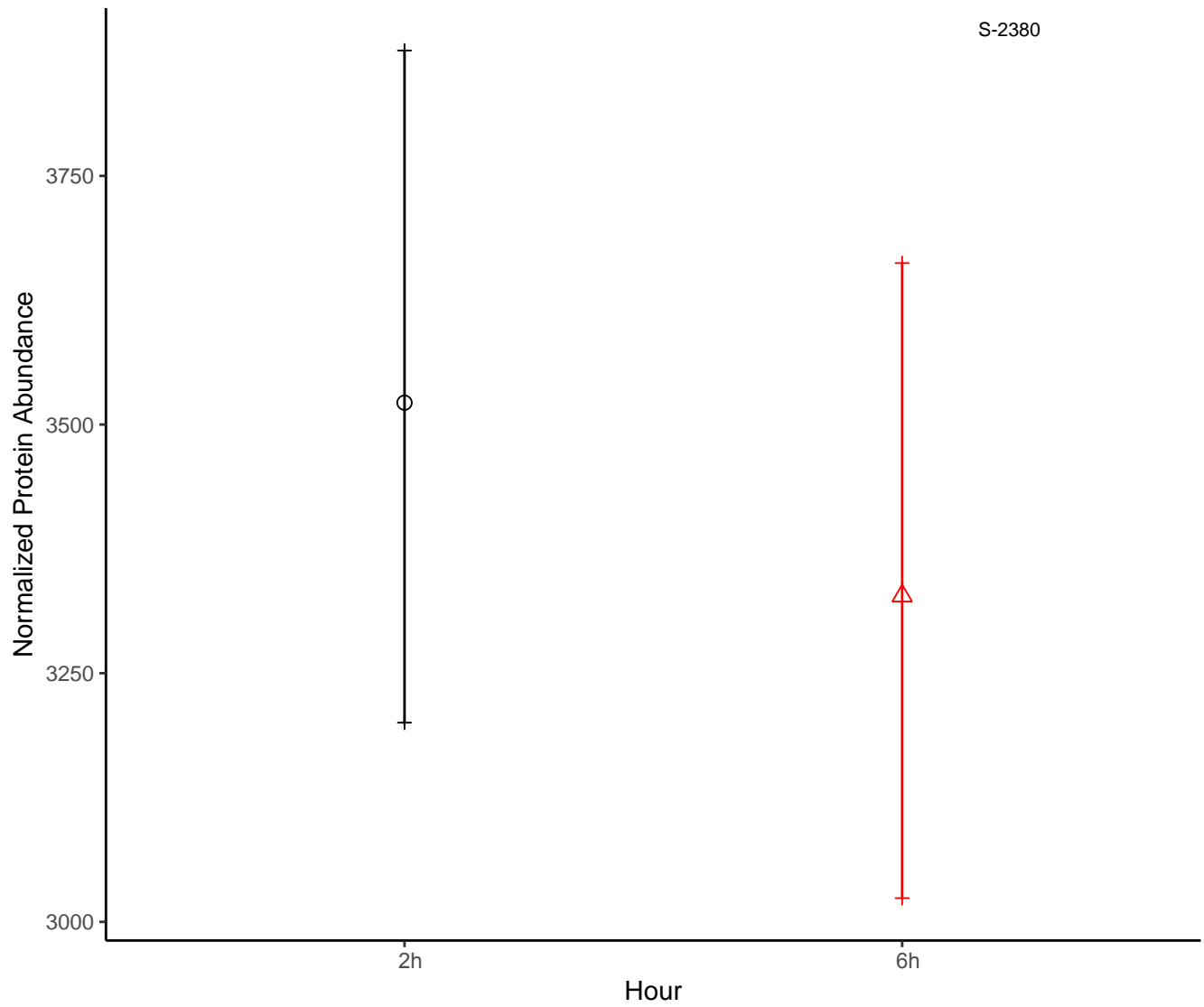
△ 6h

# RUVX\_STAAM



# S3AD\_STAAM

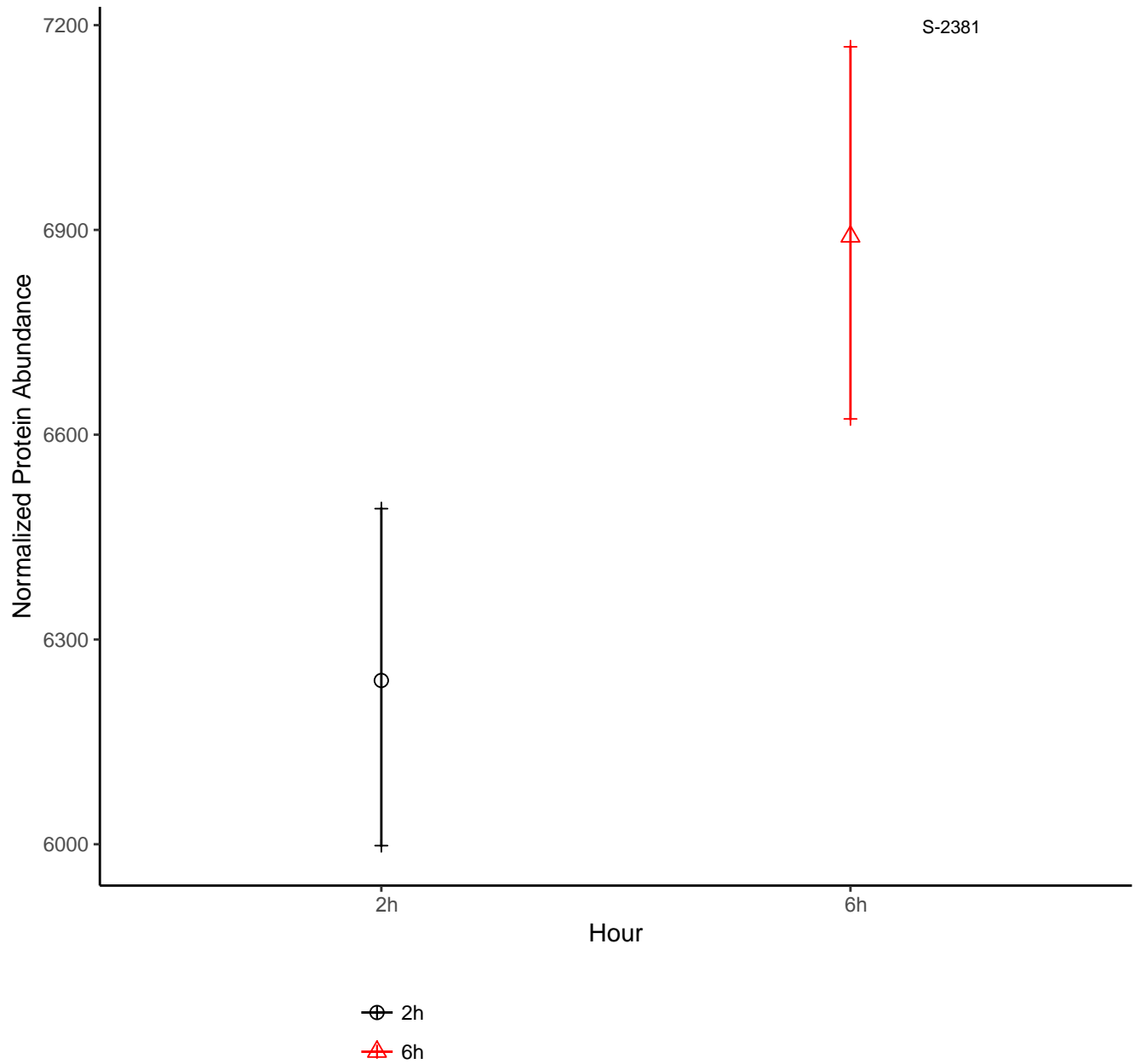
S-2380



⊕ 2h

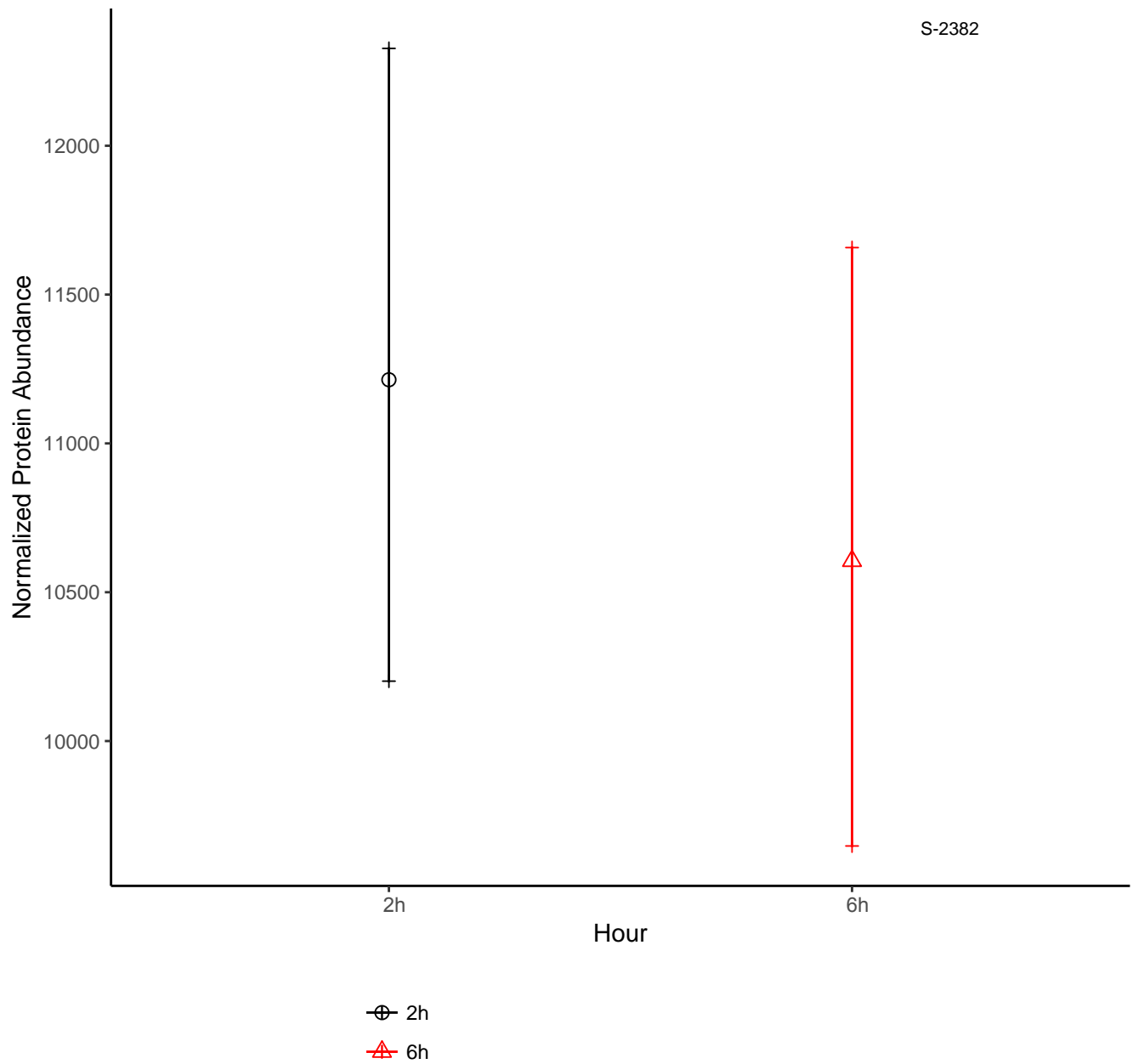
△ 6h

# SAER\_STAAM

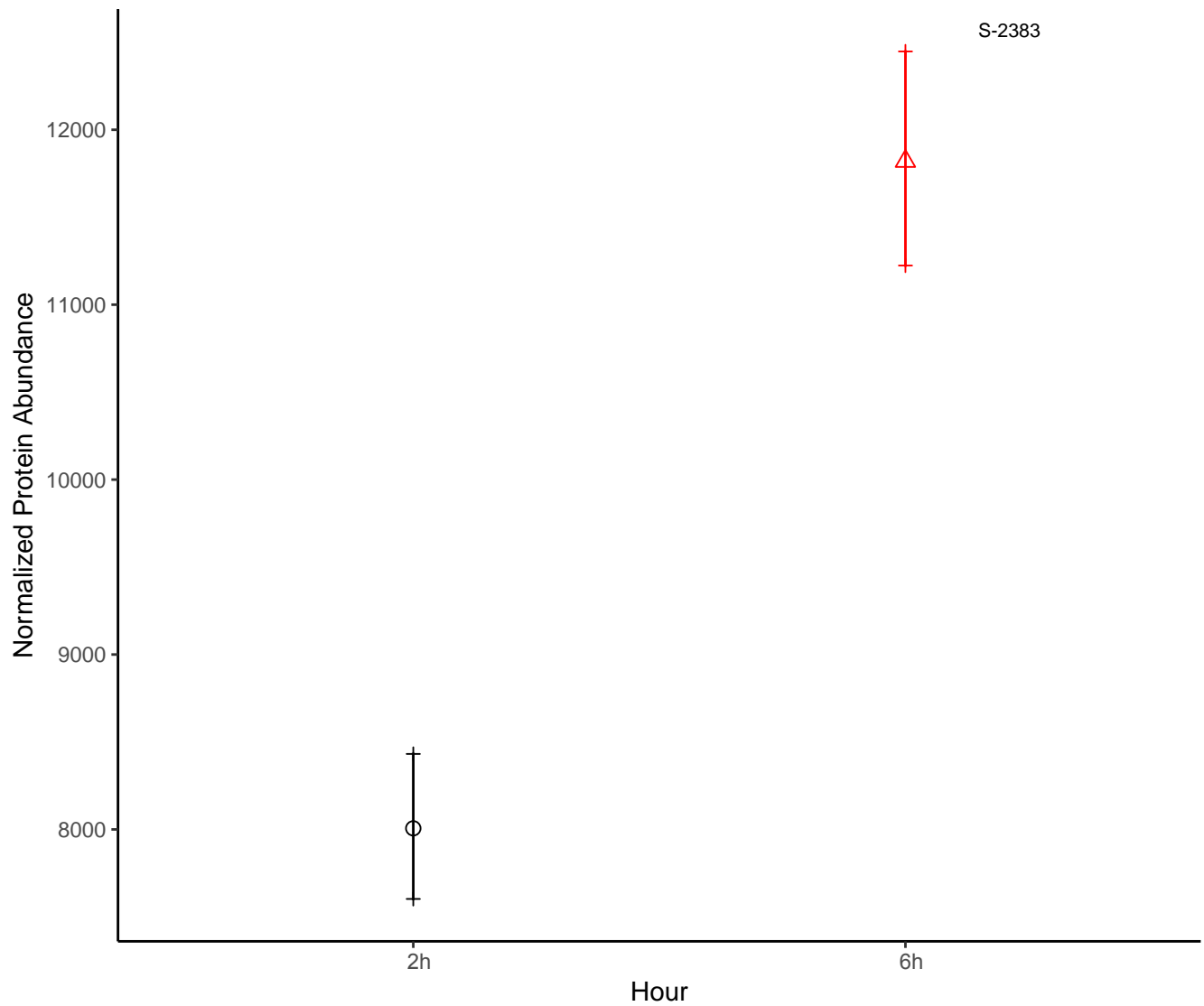


# SARA\_STAAM

S-2382



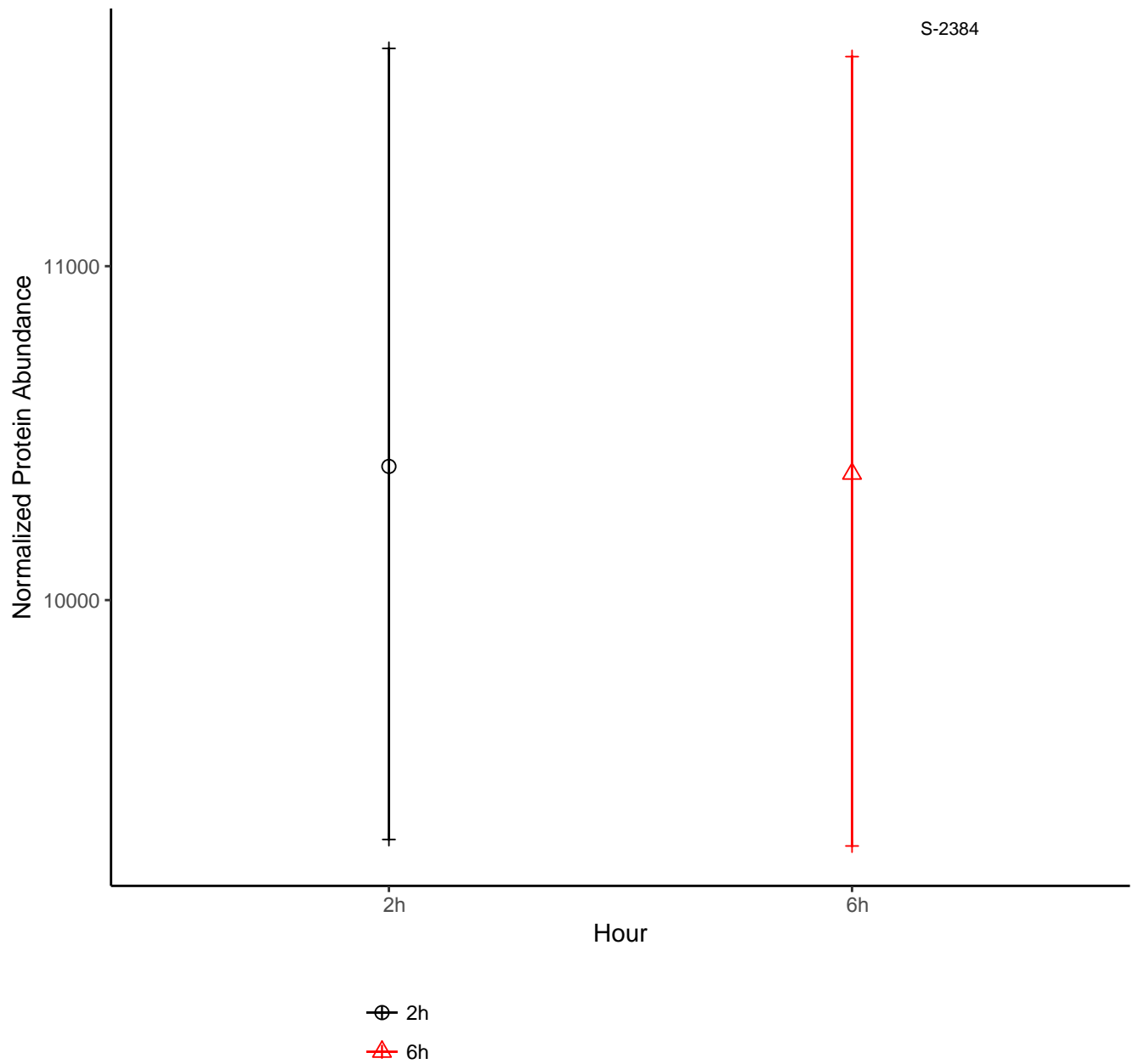
# SARR\_STAAM



⊕ 2h

△ 6h

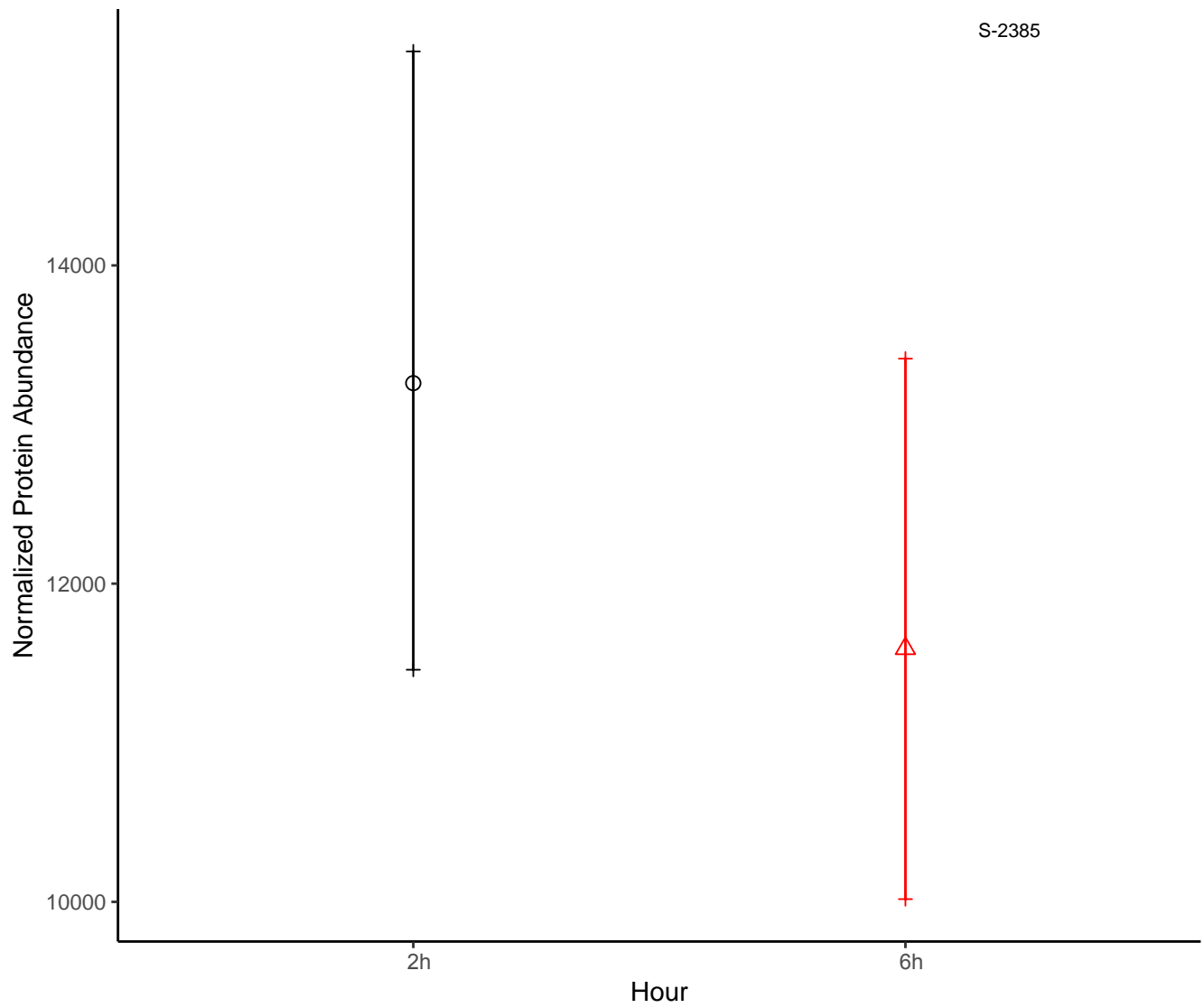
# SARS\_STAAM





# SBCC\_STAAM

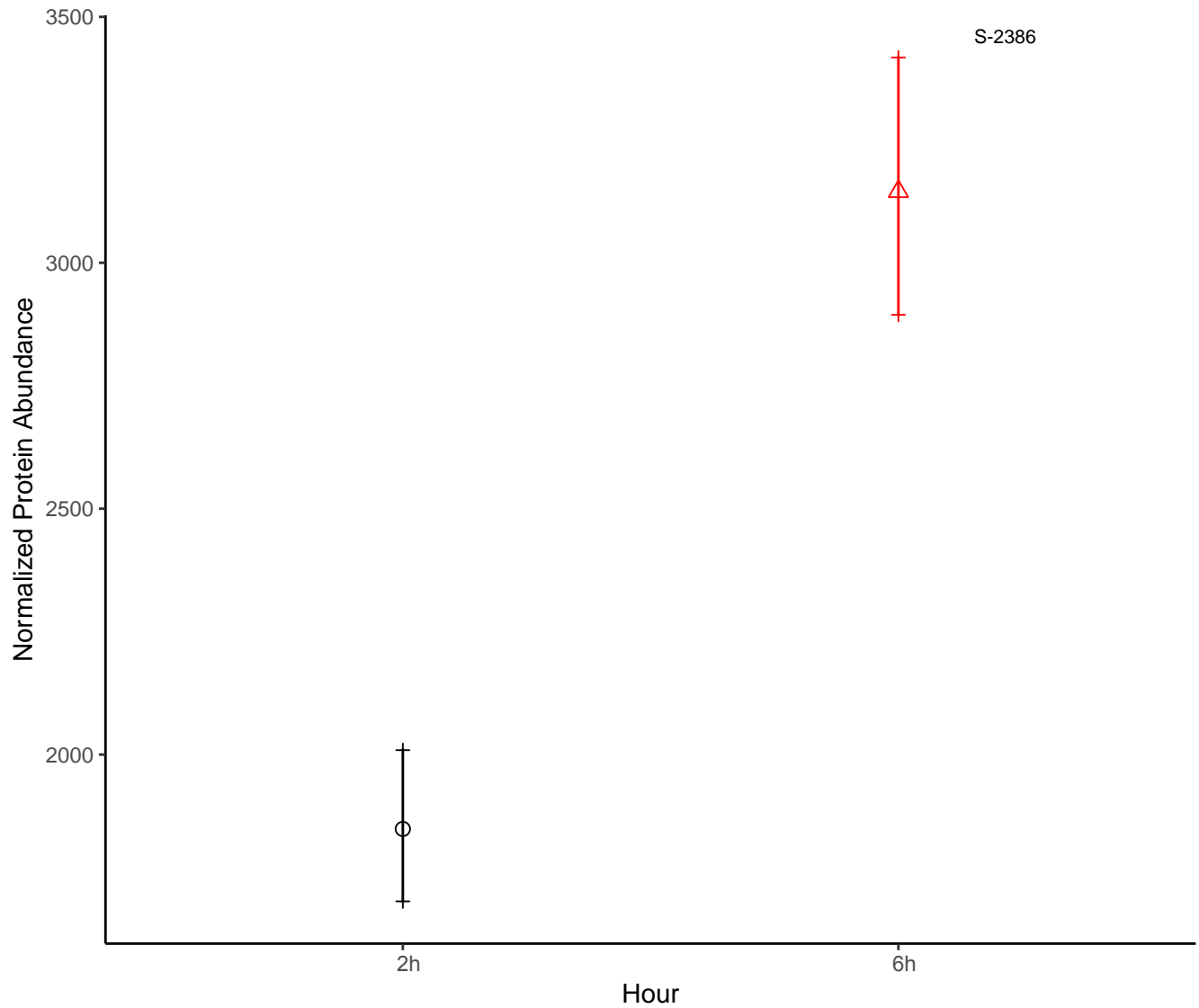
S-2385



⊕ 2h

△ 6h

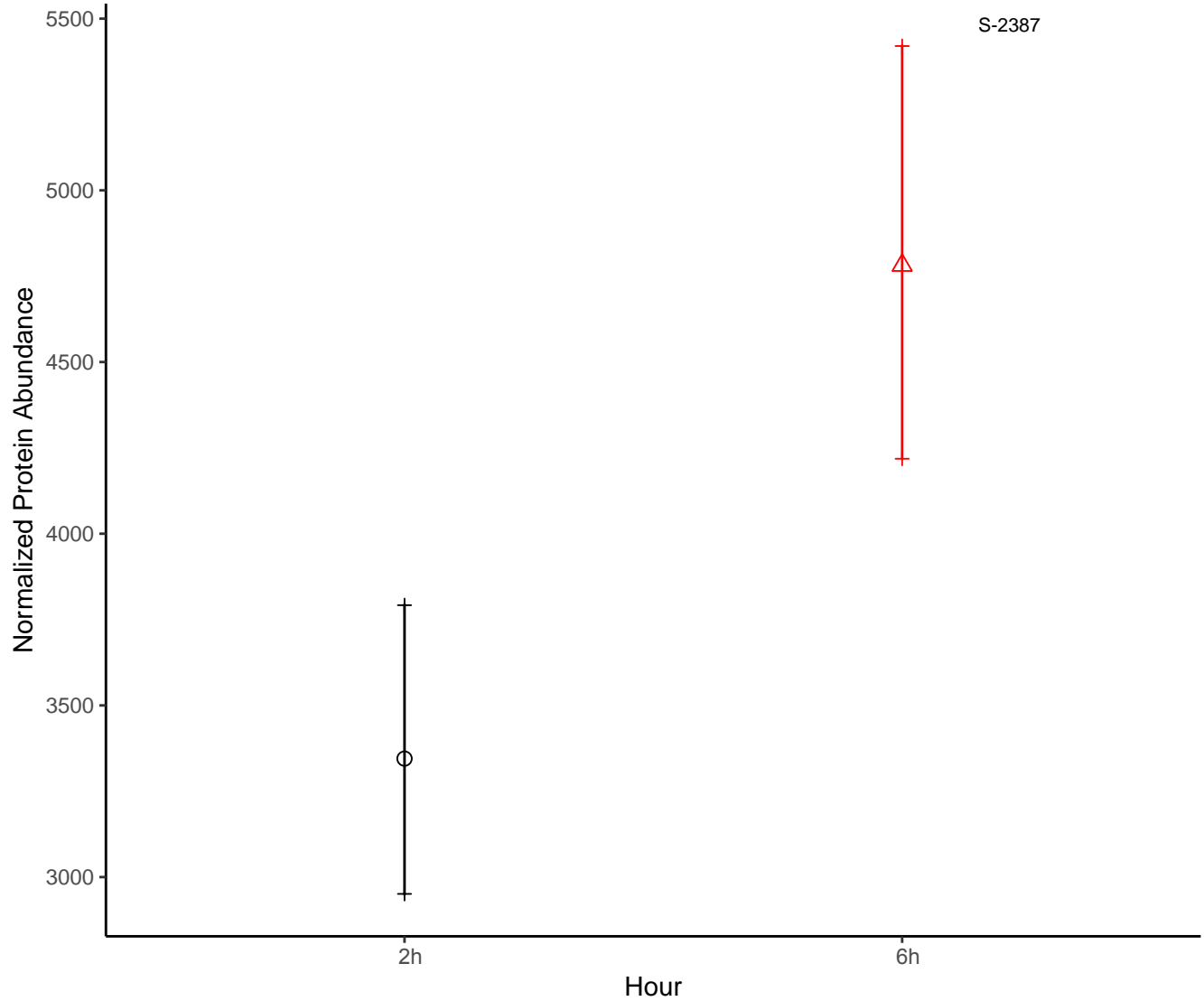
# SBI\_STAAM



⊕ 2h

△ 6h

# SCPA\_STAAM

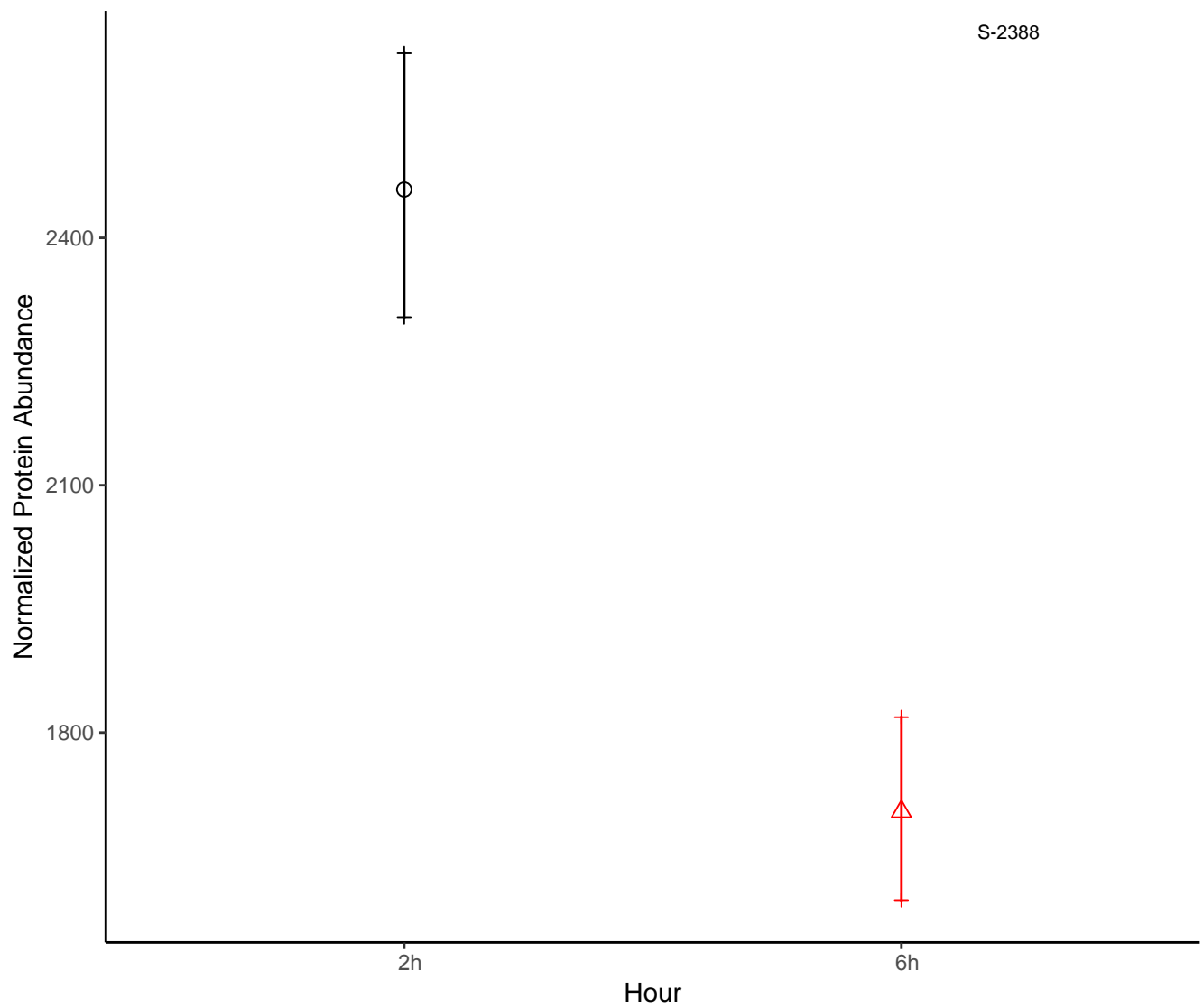


⊕ 2h

△ 6h

# SCPB\_STAAM

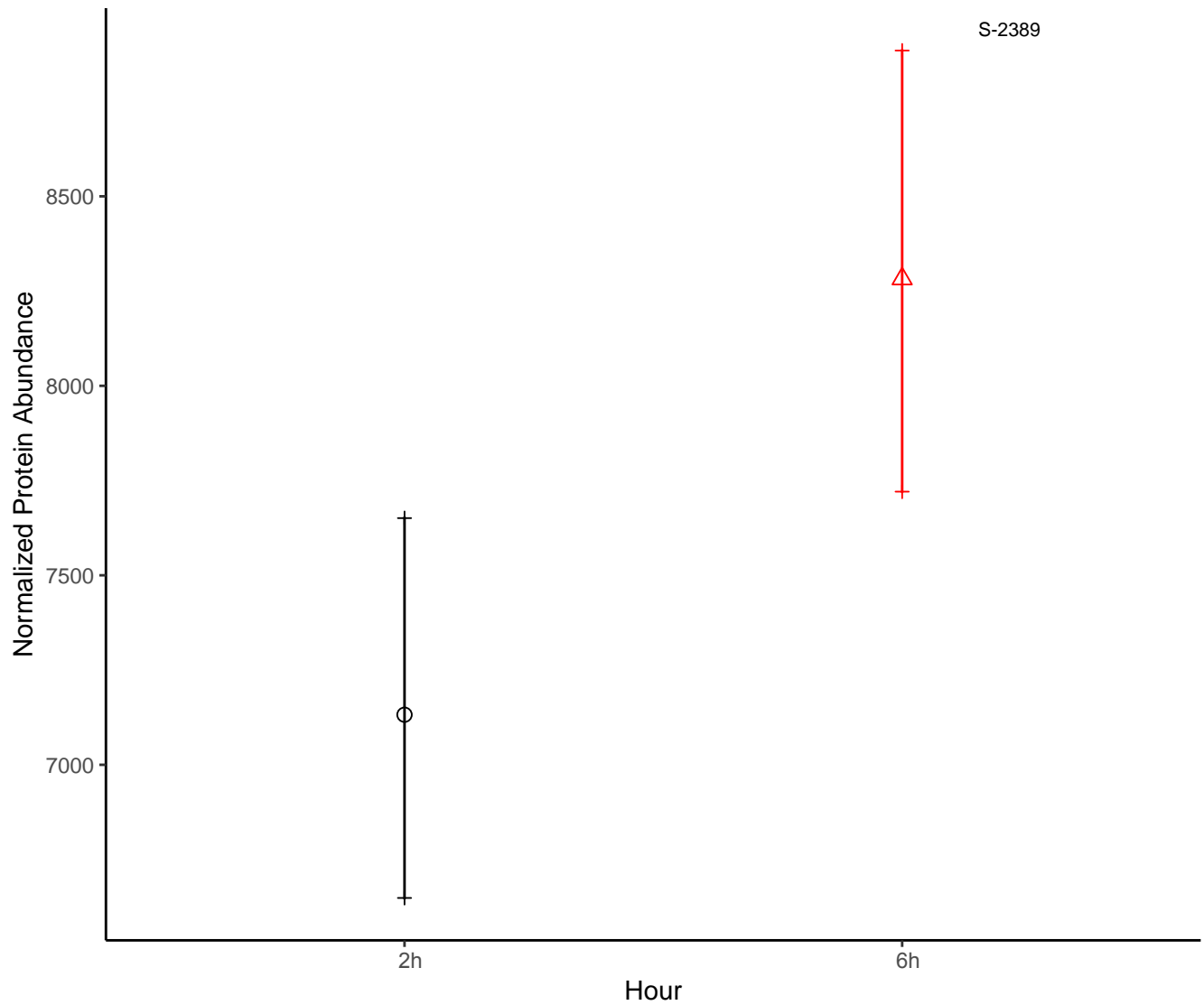
S-2388



⊕ 2h

△ 6h

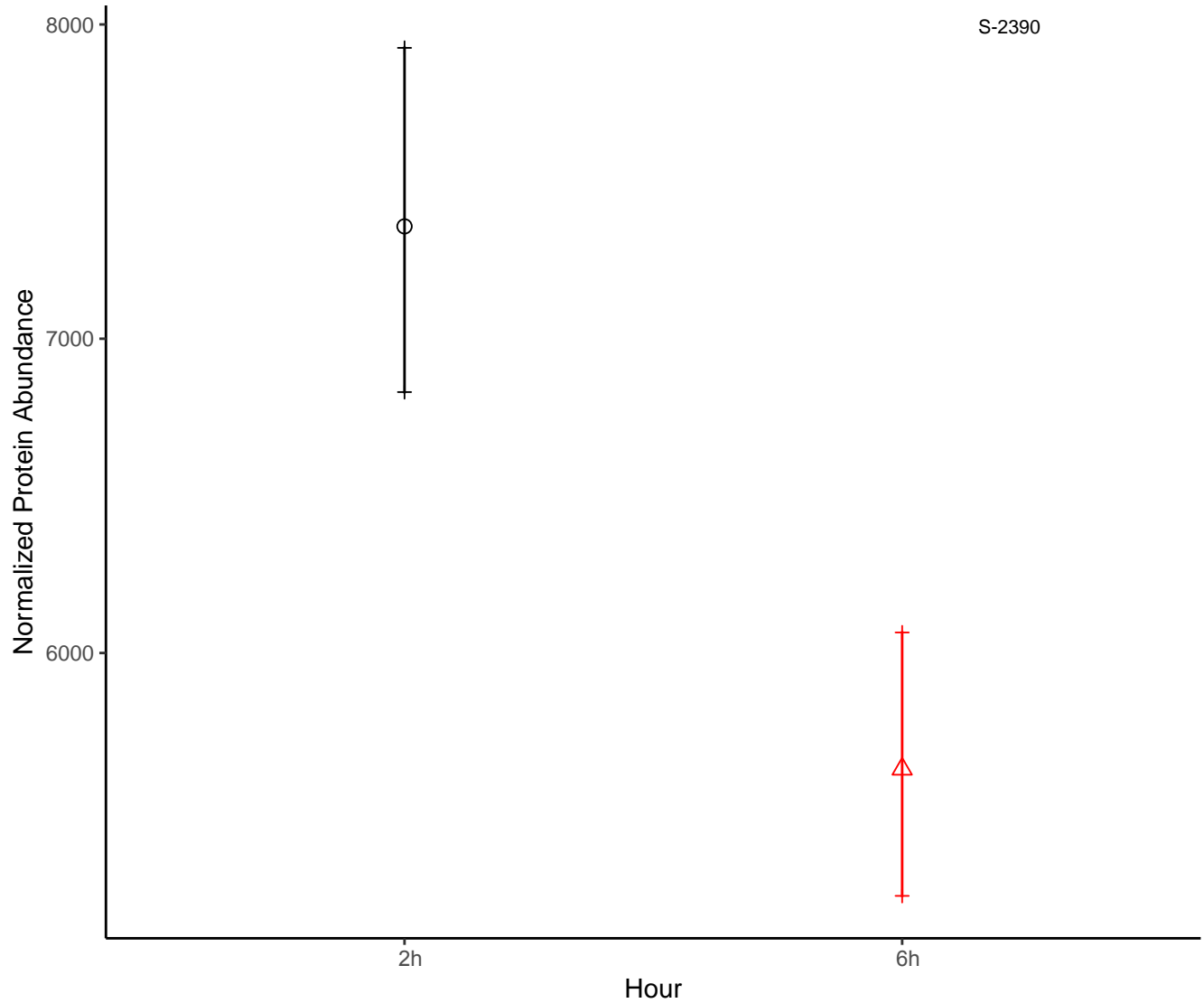
# SECA1\_STAAM



⊕ 2h

△ 6h

# SIGA\_STAAM

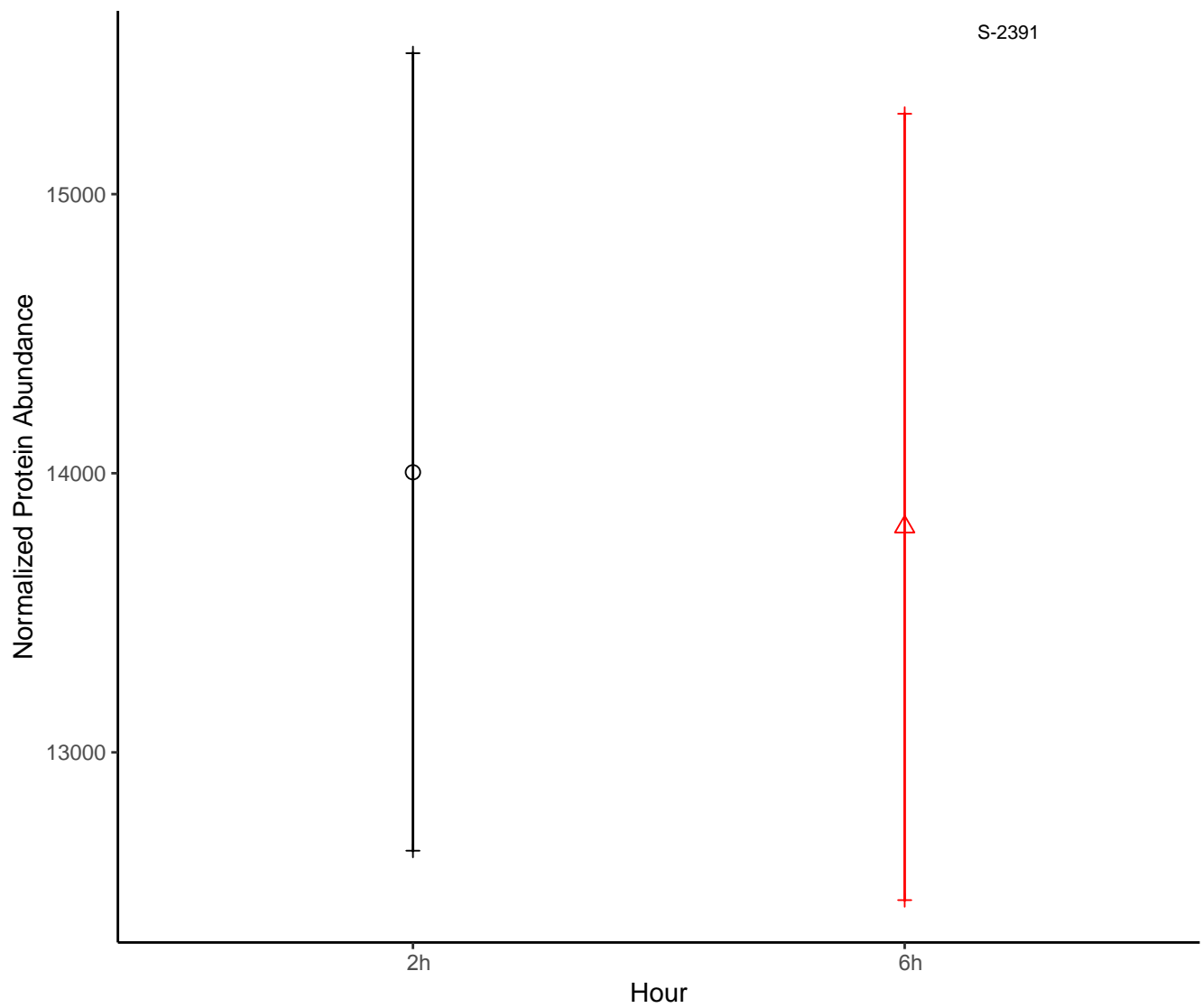


⊕ 2h

△ 6h

# SODM1\_STAAM

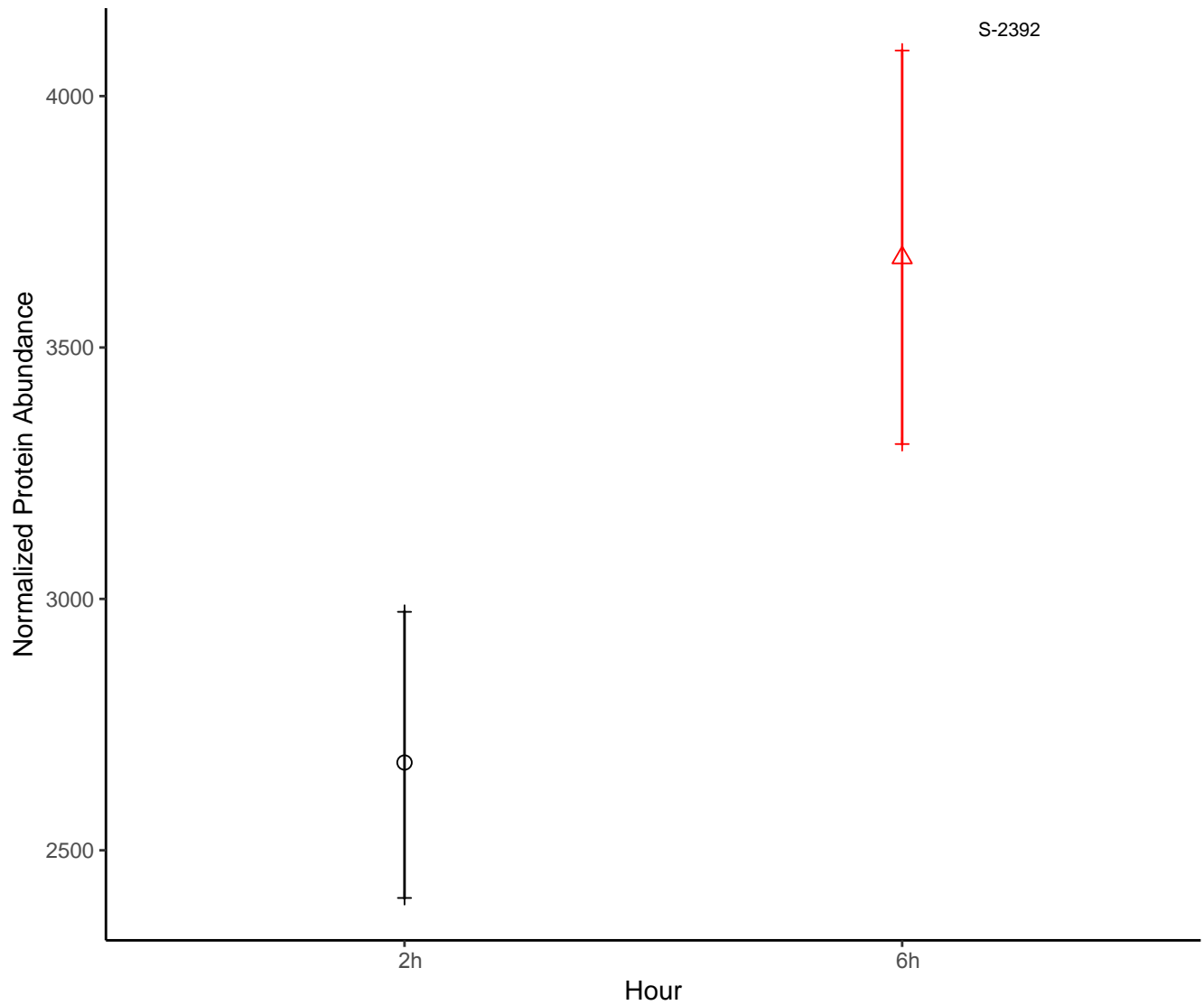
S-2391



⊕ 2h

△ 6h

# SODM2\_STAAM

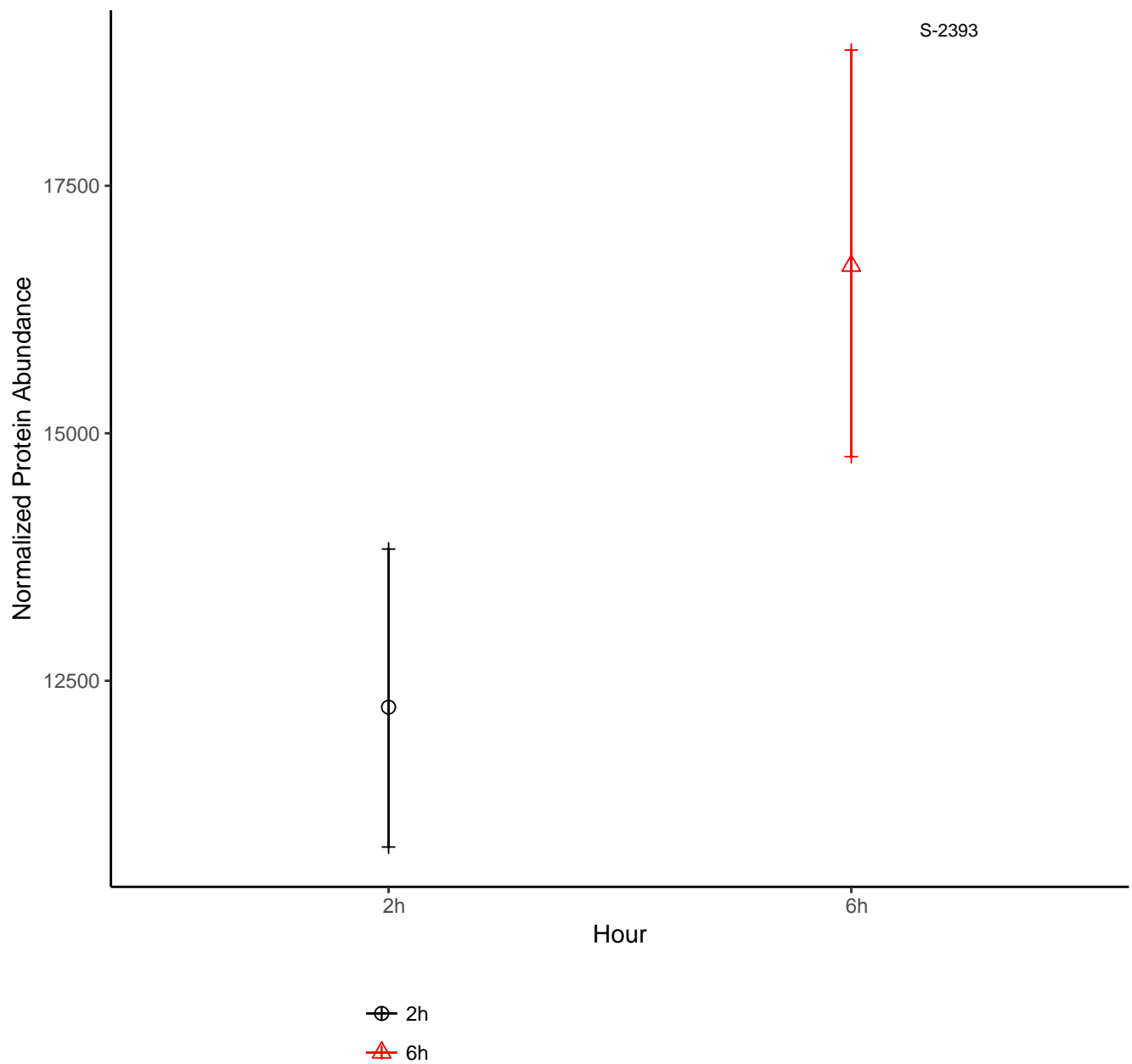


⊕ 2h

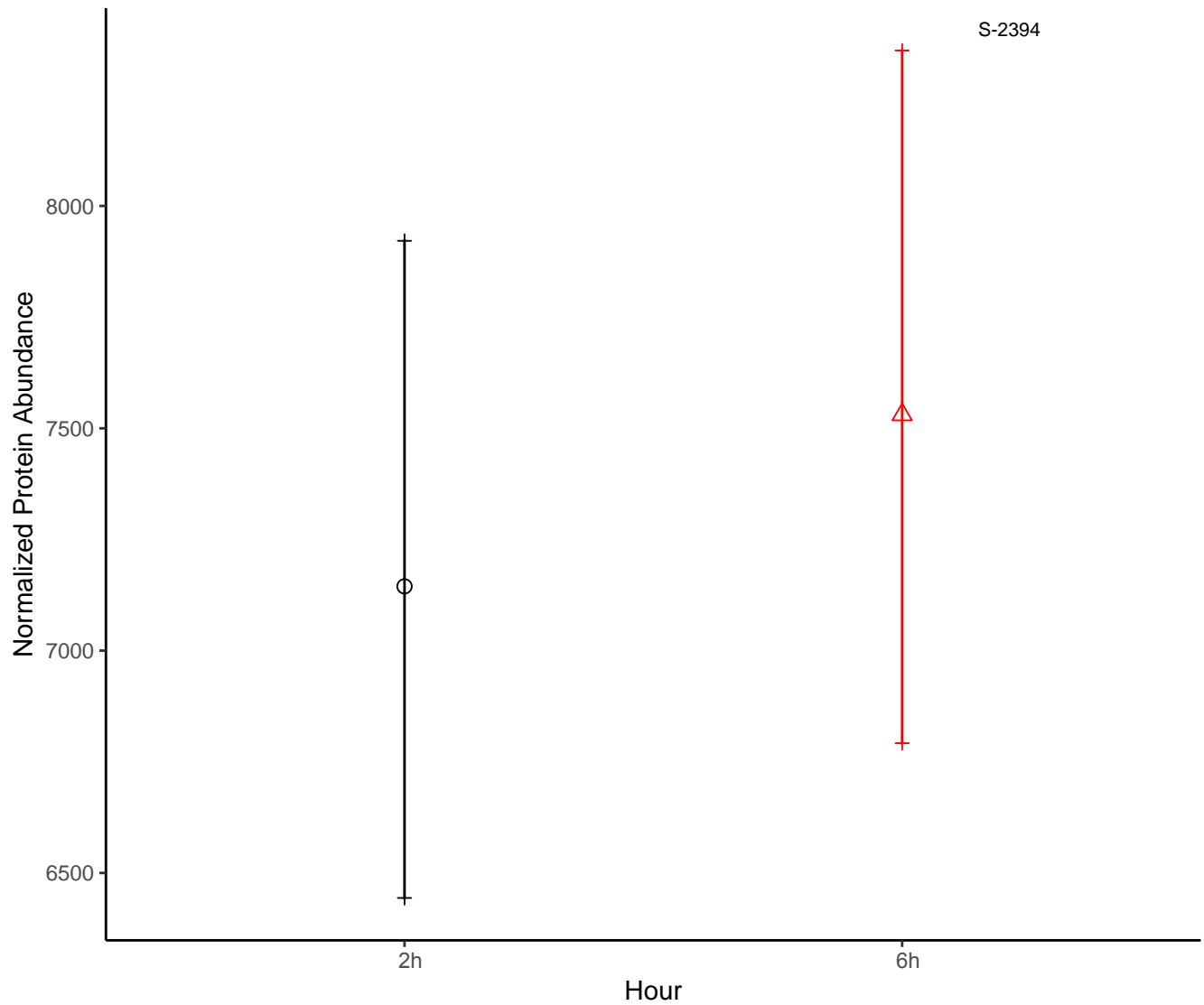
△ 6h



# SP5G\_STAAM



# SPA\_STAAM



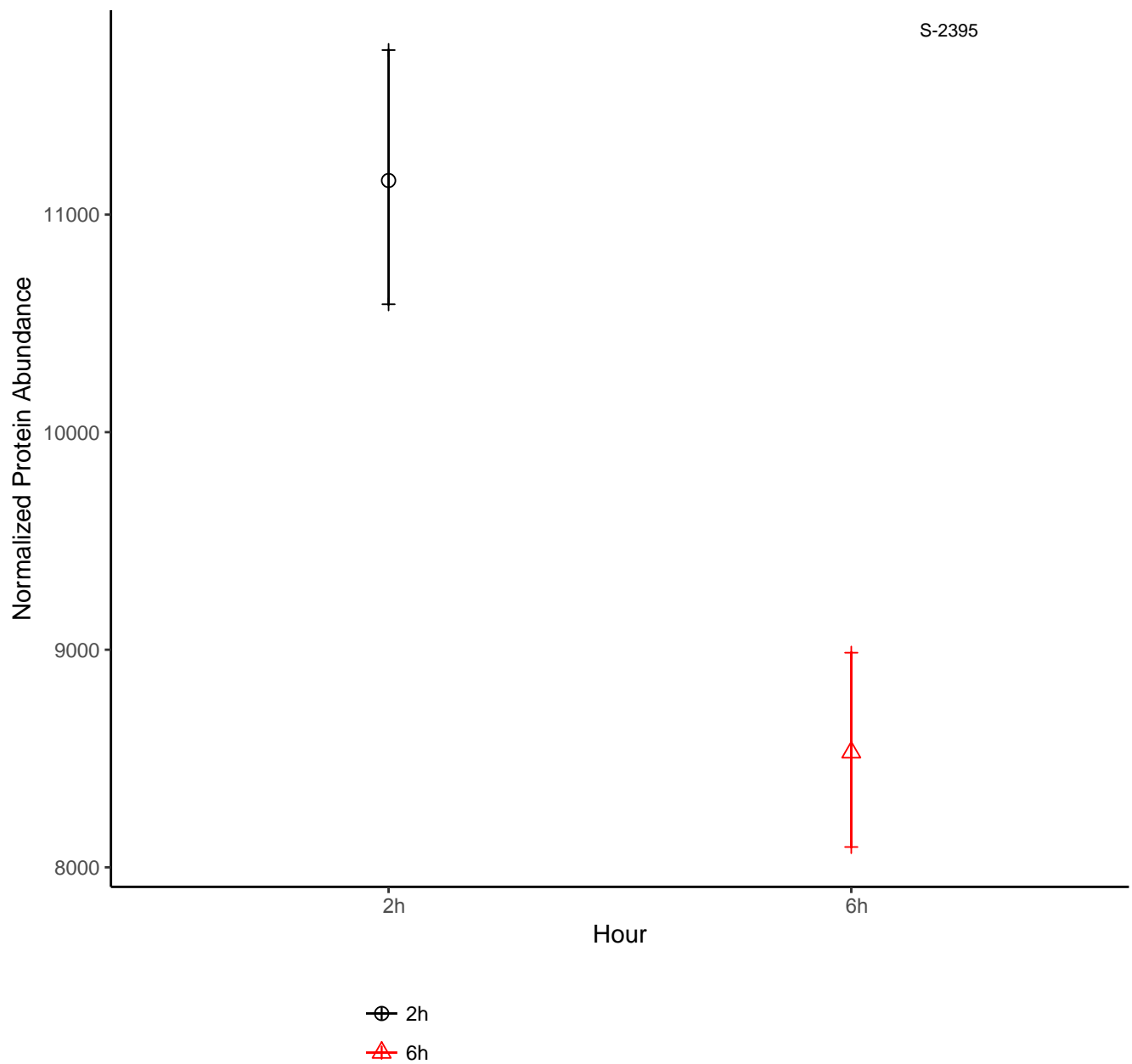
S-2394

⊕ 2h

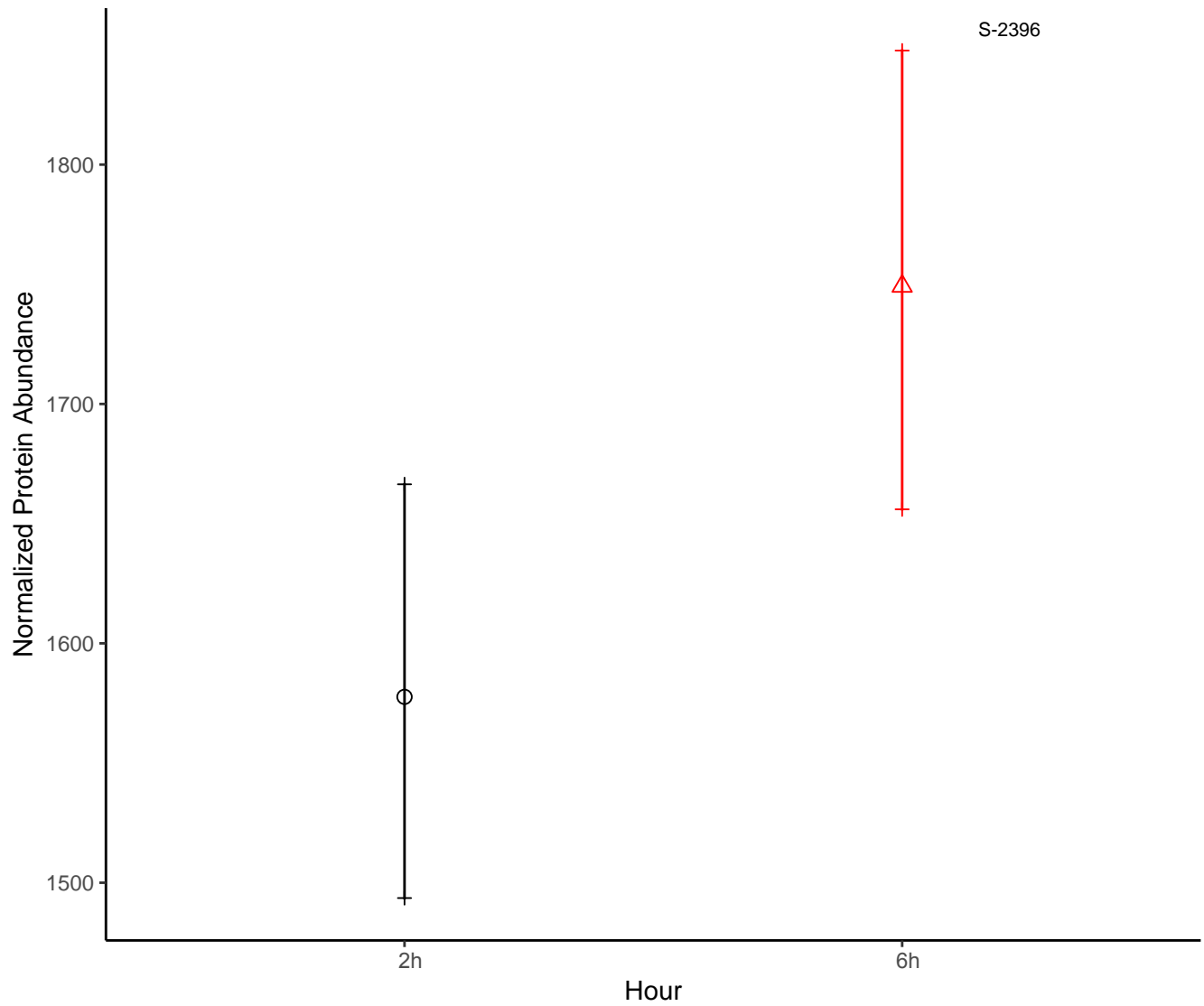
△ 6h

# SPLD\_STAAM

S-2395



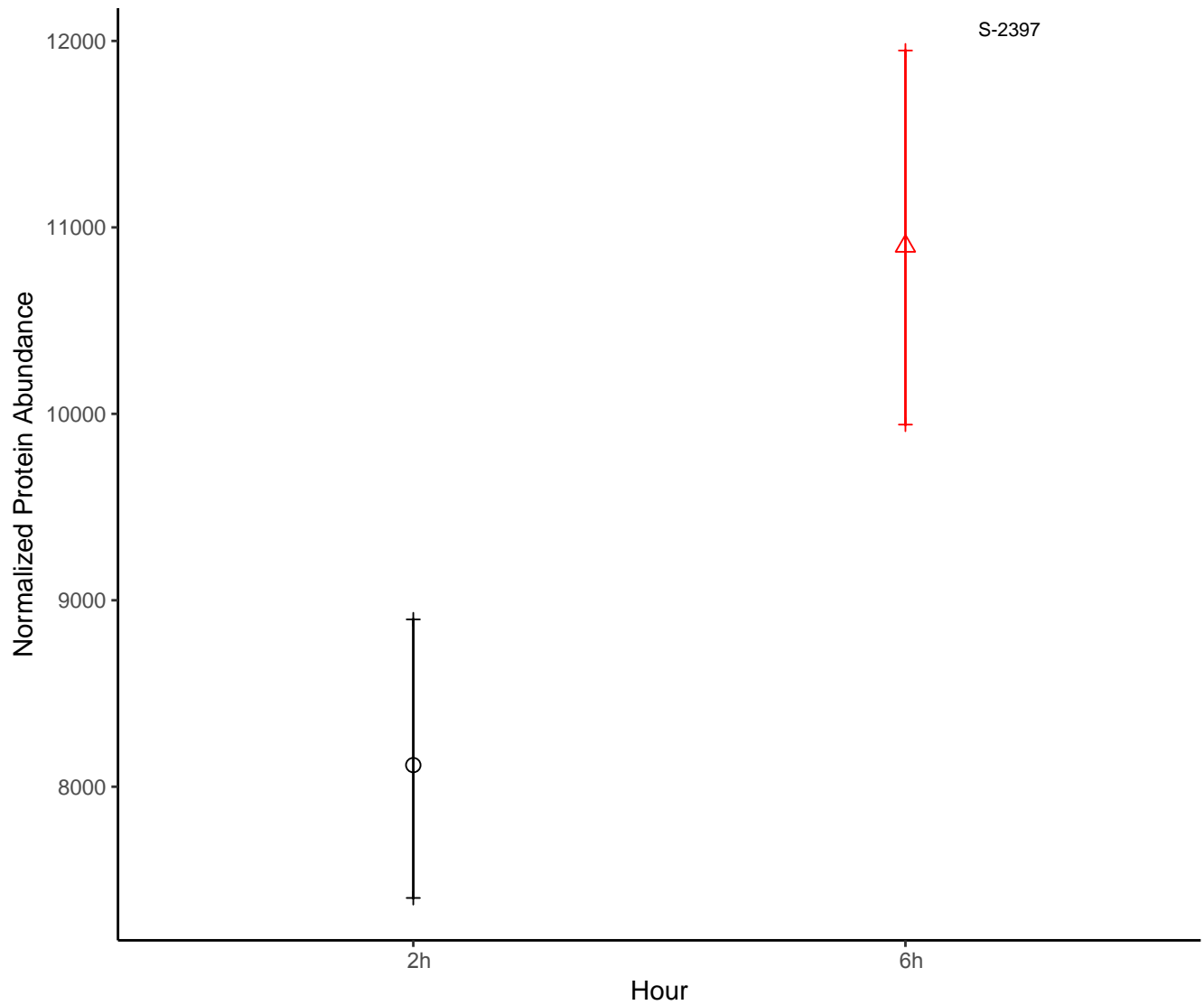
# SPX\_STAAM



⊕ 2h

△ 6h

# SRRRA\_STAAM

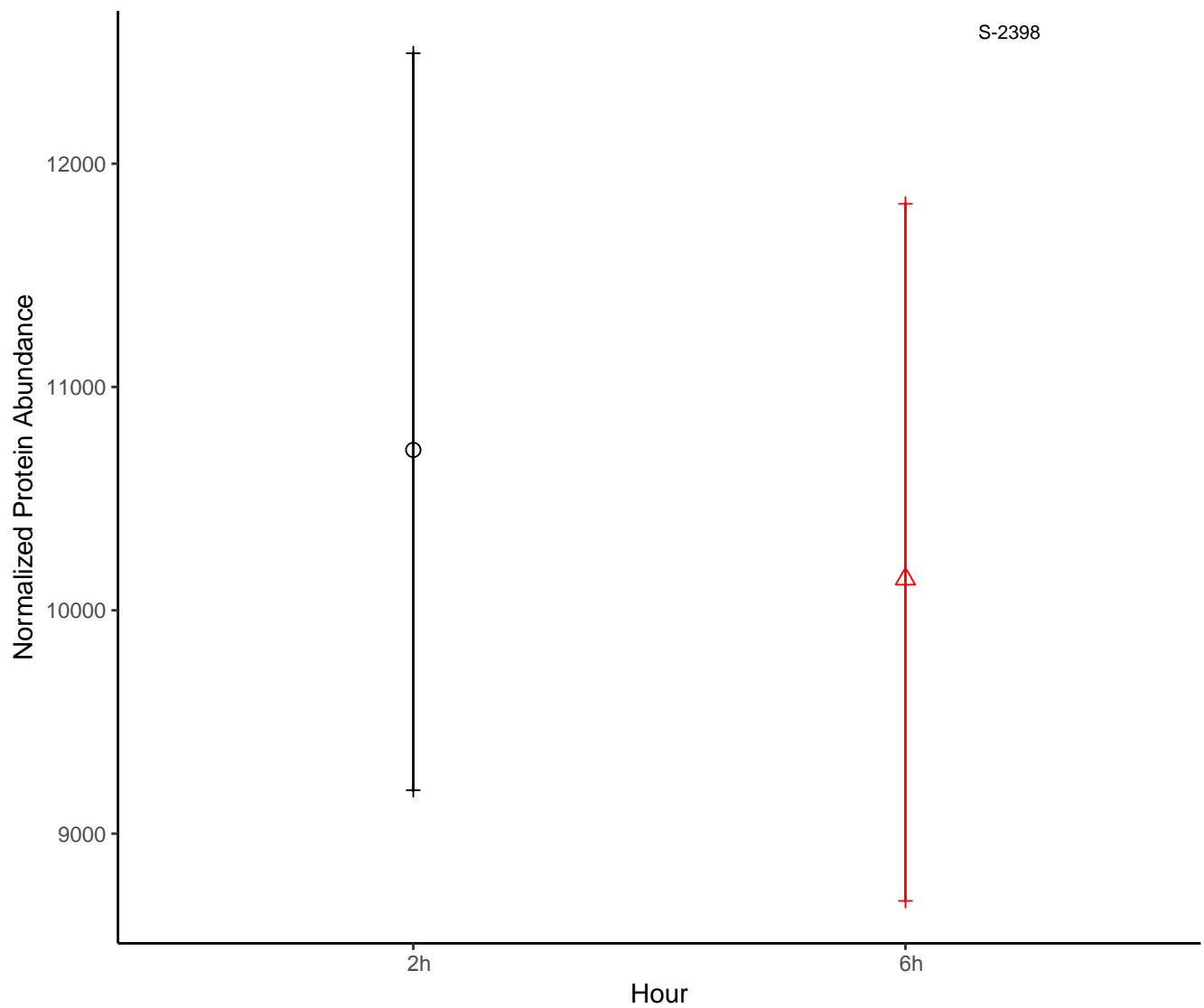


⊕ 2h

△ 6h

# SSAA2\_STAAM

S-2398

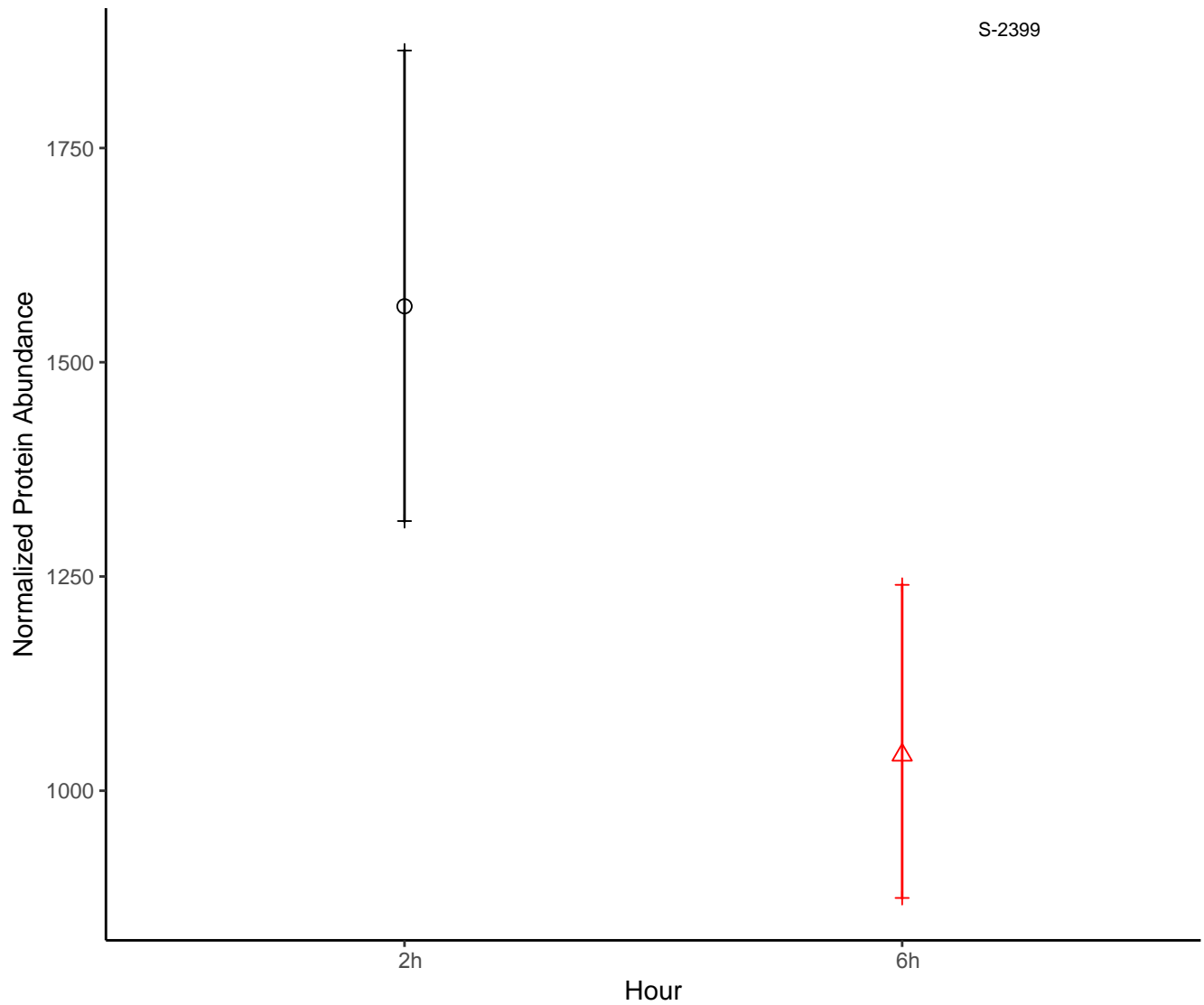


⊕ 2h

△ 6h

# SSB1\_STAAM

S-2399

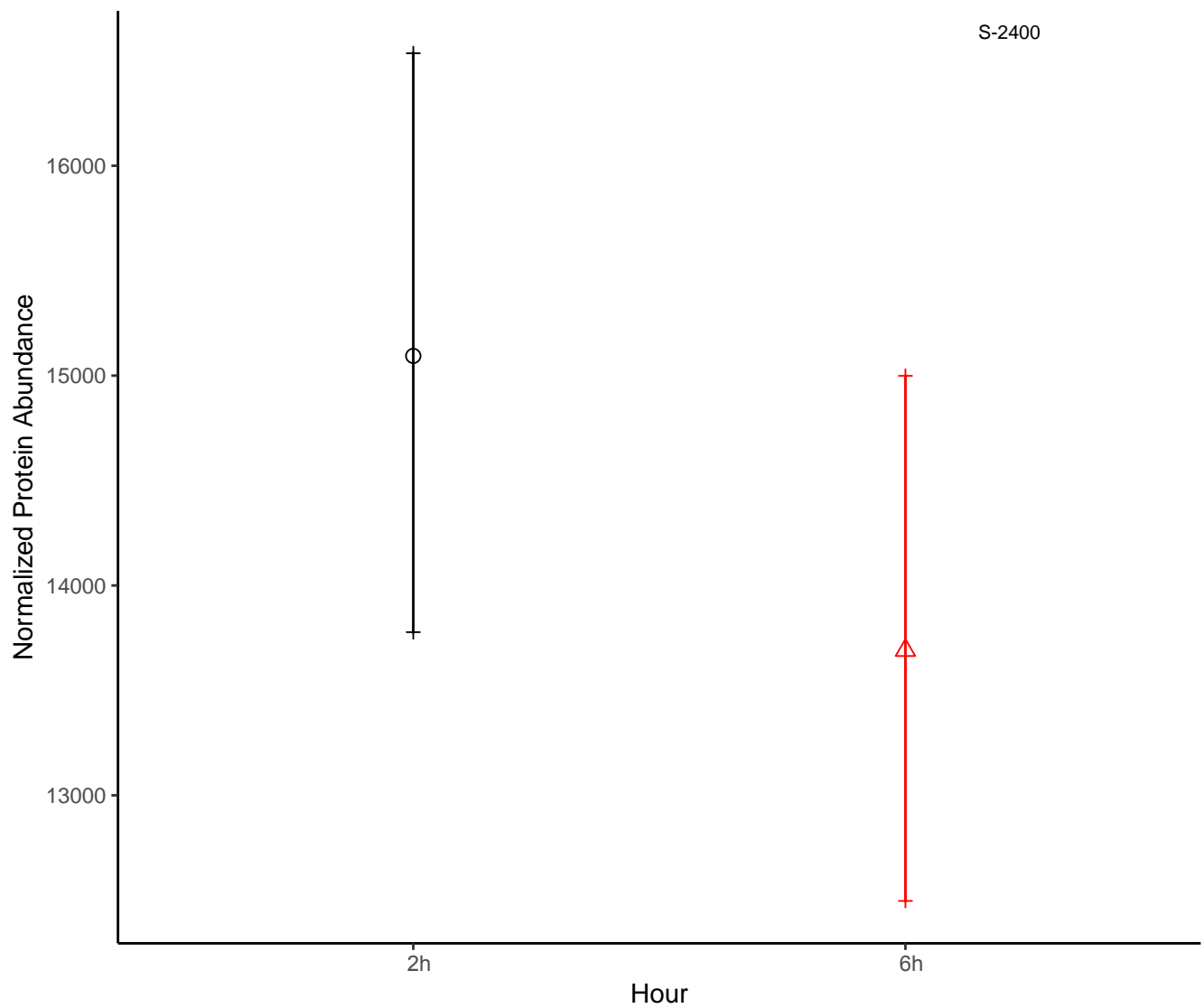


⊕ 2h

△ 6h

# SSB2\_STAAM

S-2400

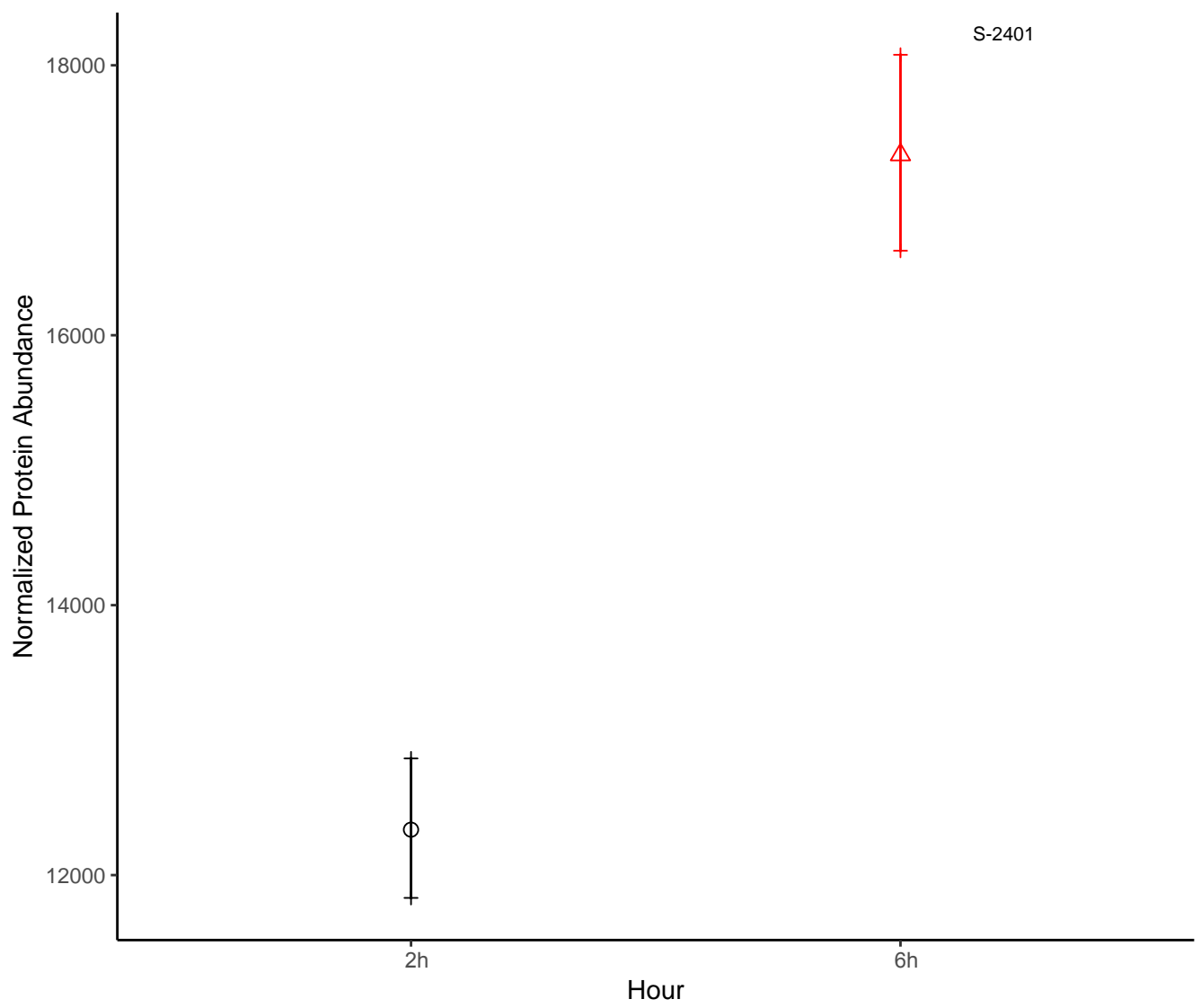


⊕ 2h

△ 6h



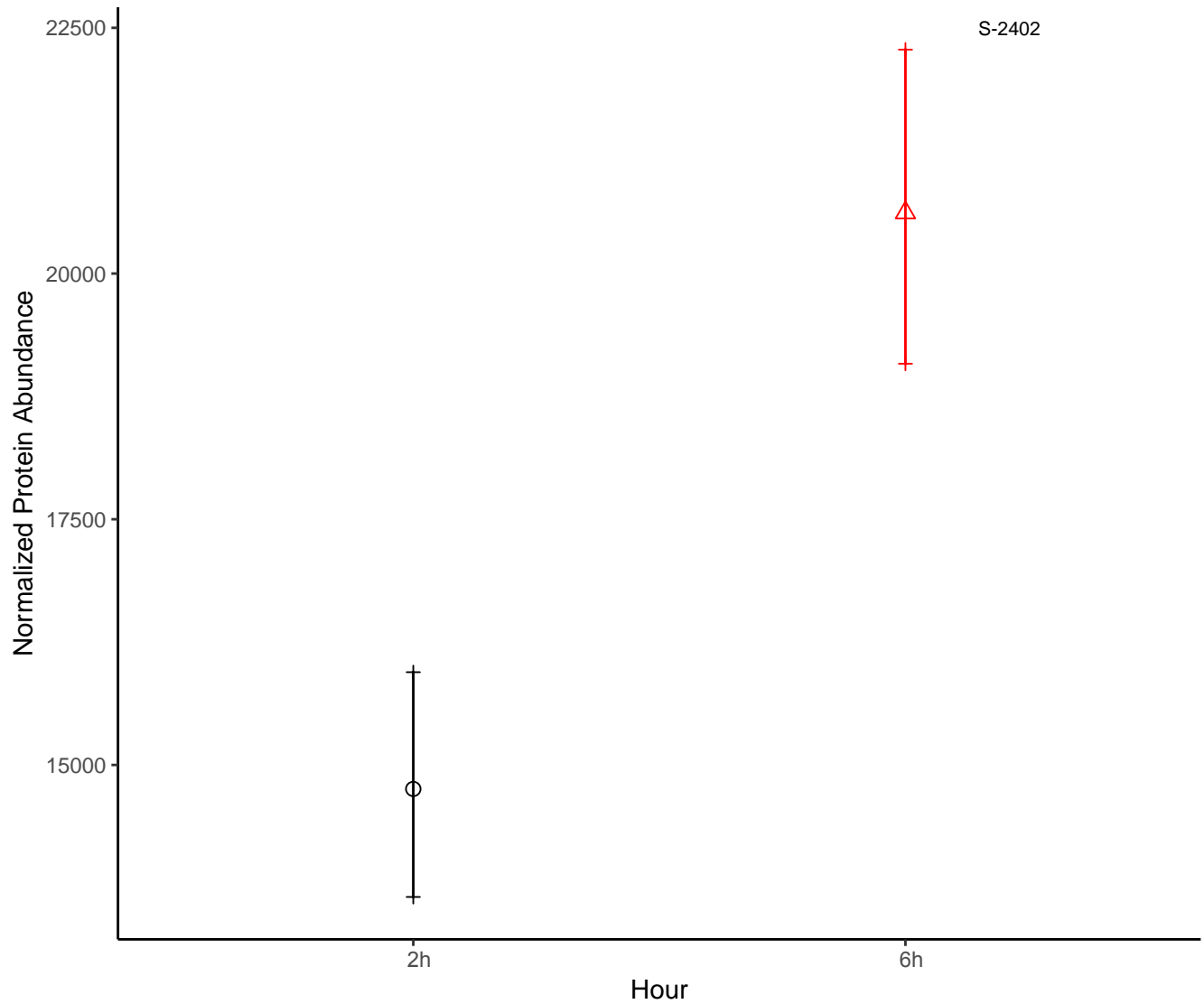
# SUCC\_STAAM



S-2401

- ⊕ 2h
- △ 6h

# SUCD\_STAAM

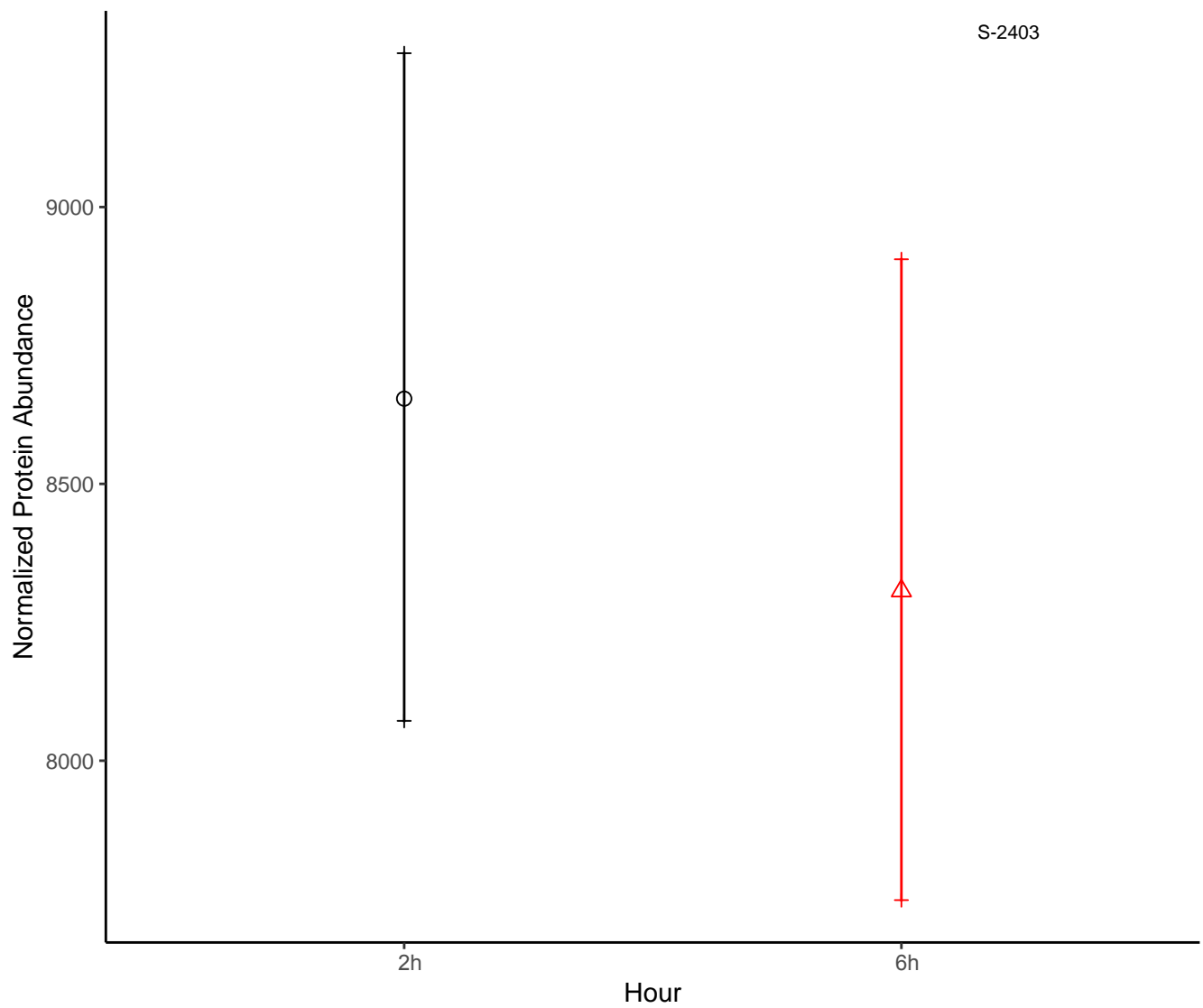


⊕ 2h

△ 6h

# SYA\_STAAM

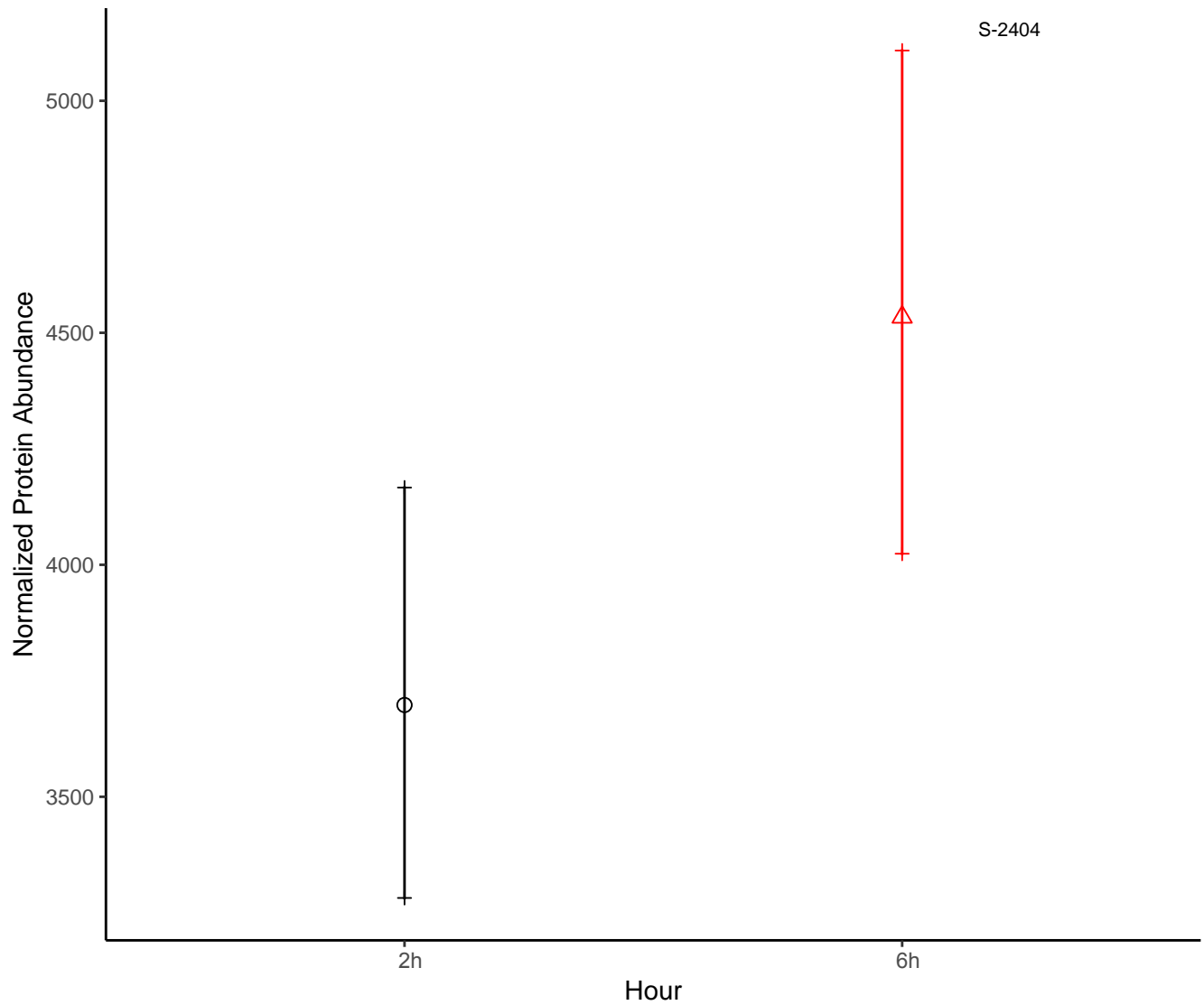
S-2403



⊕ 2h

△ 6h

# SYC\_STAAM

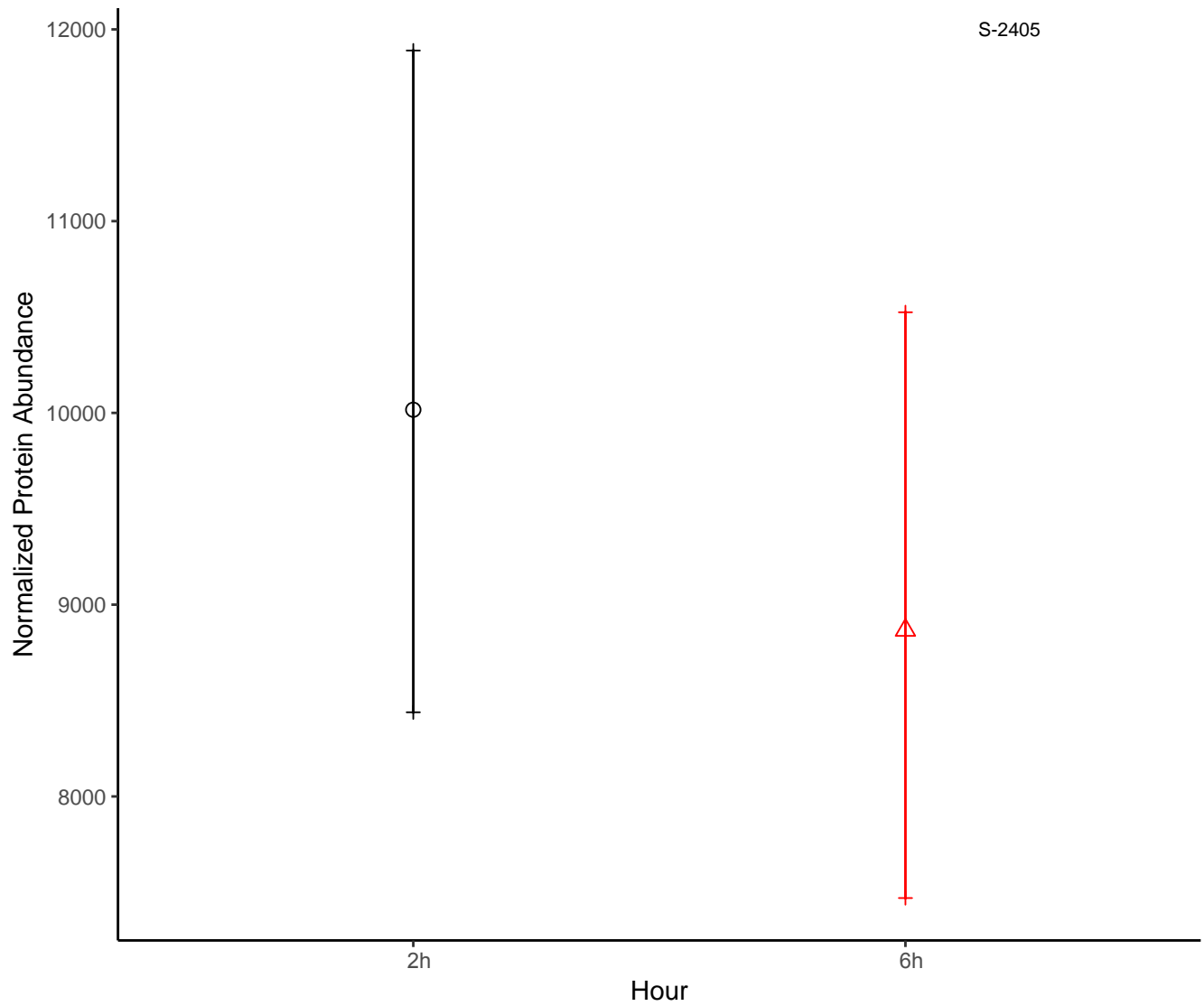


⊕ 2h

△ 6h

# SYD\_STAAM

S-2405

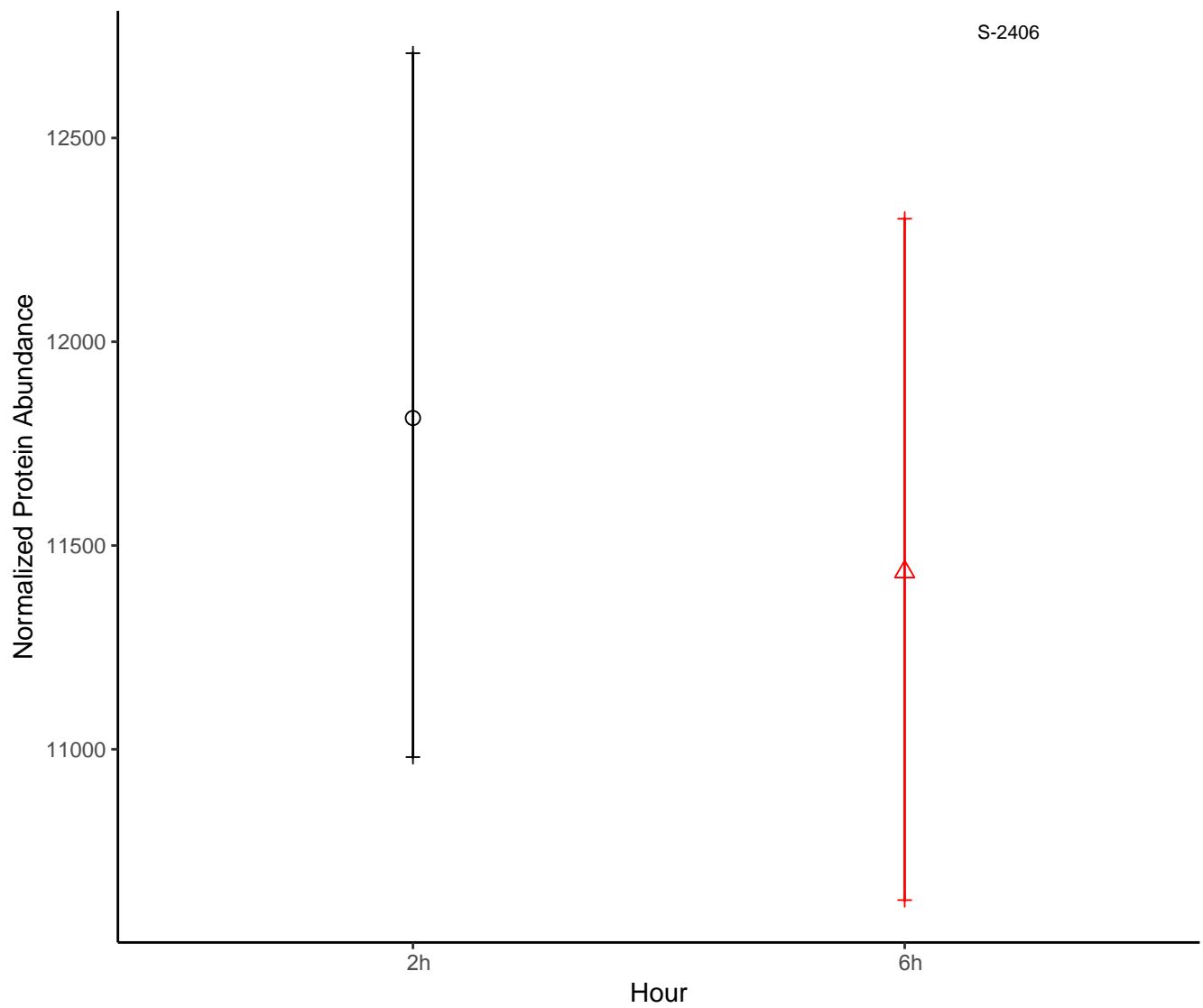


⊕ 2h

△ 6h

# SYE\_STAAM

S-2406

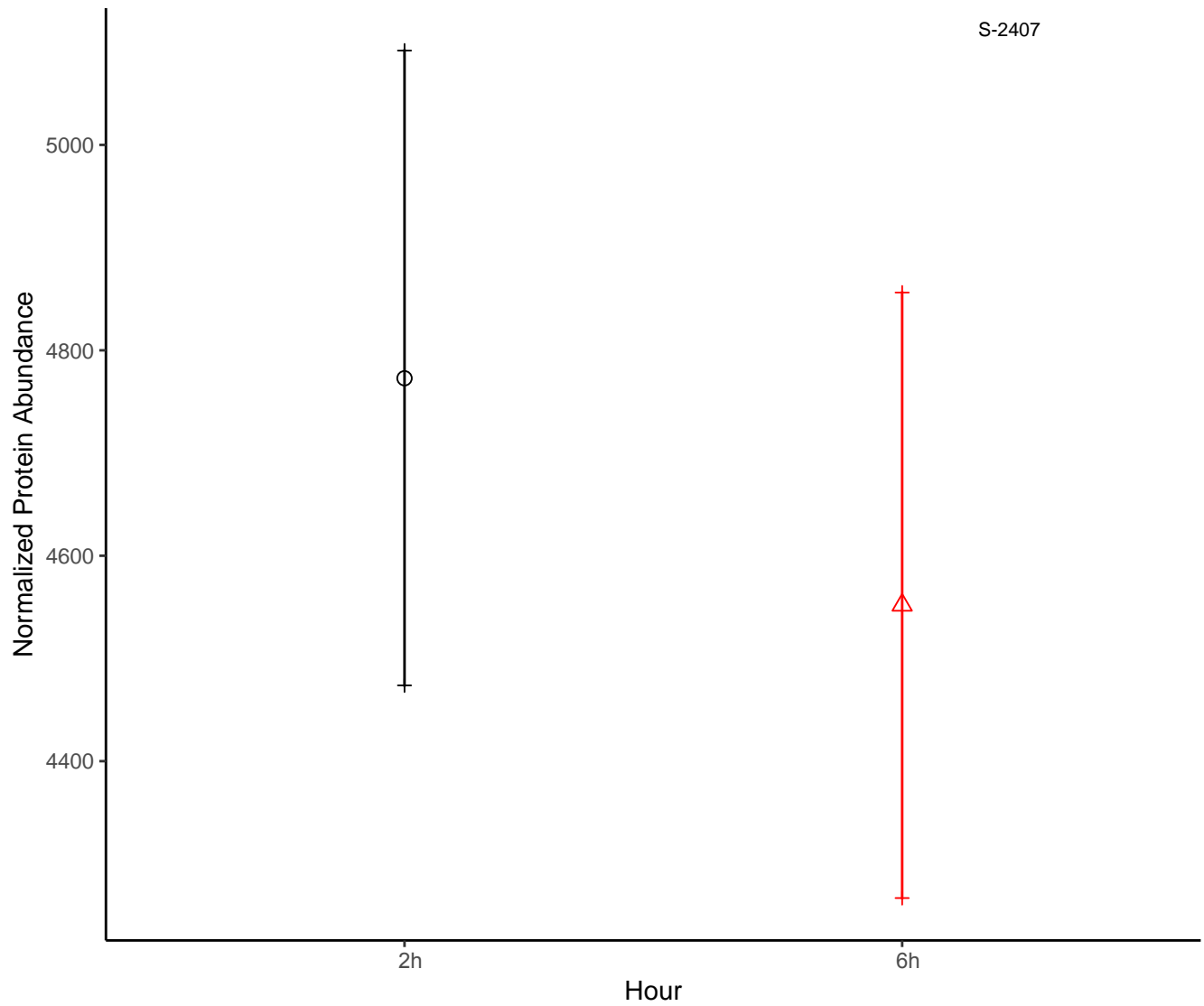


⊕ 2h

△ 6h

# SYFB\_STAAM

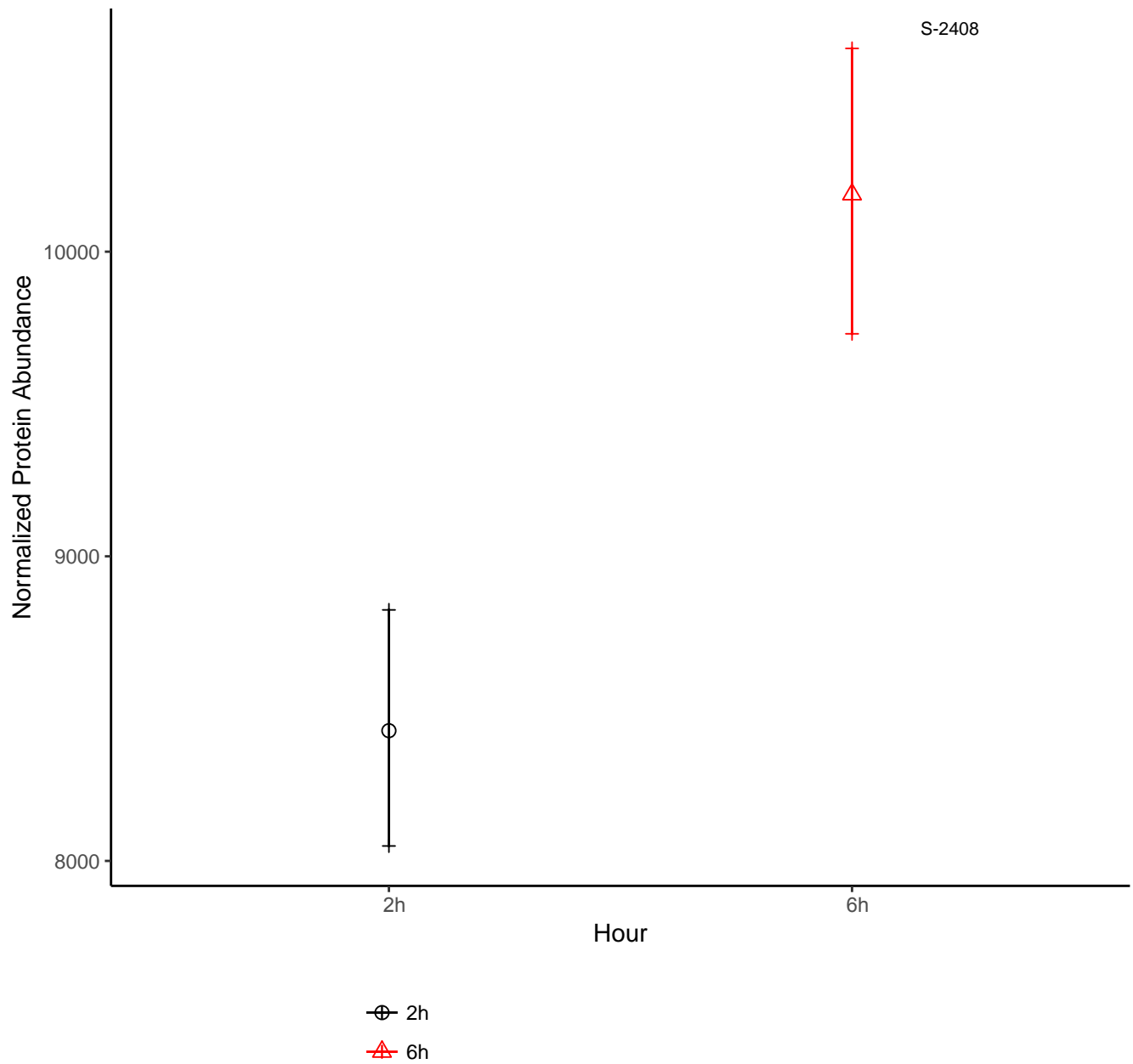
S-2407



⊕ 2h

△ 6h

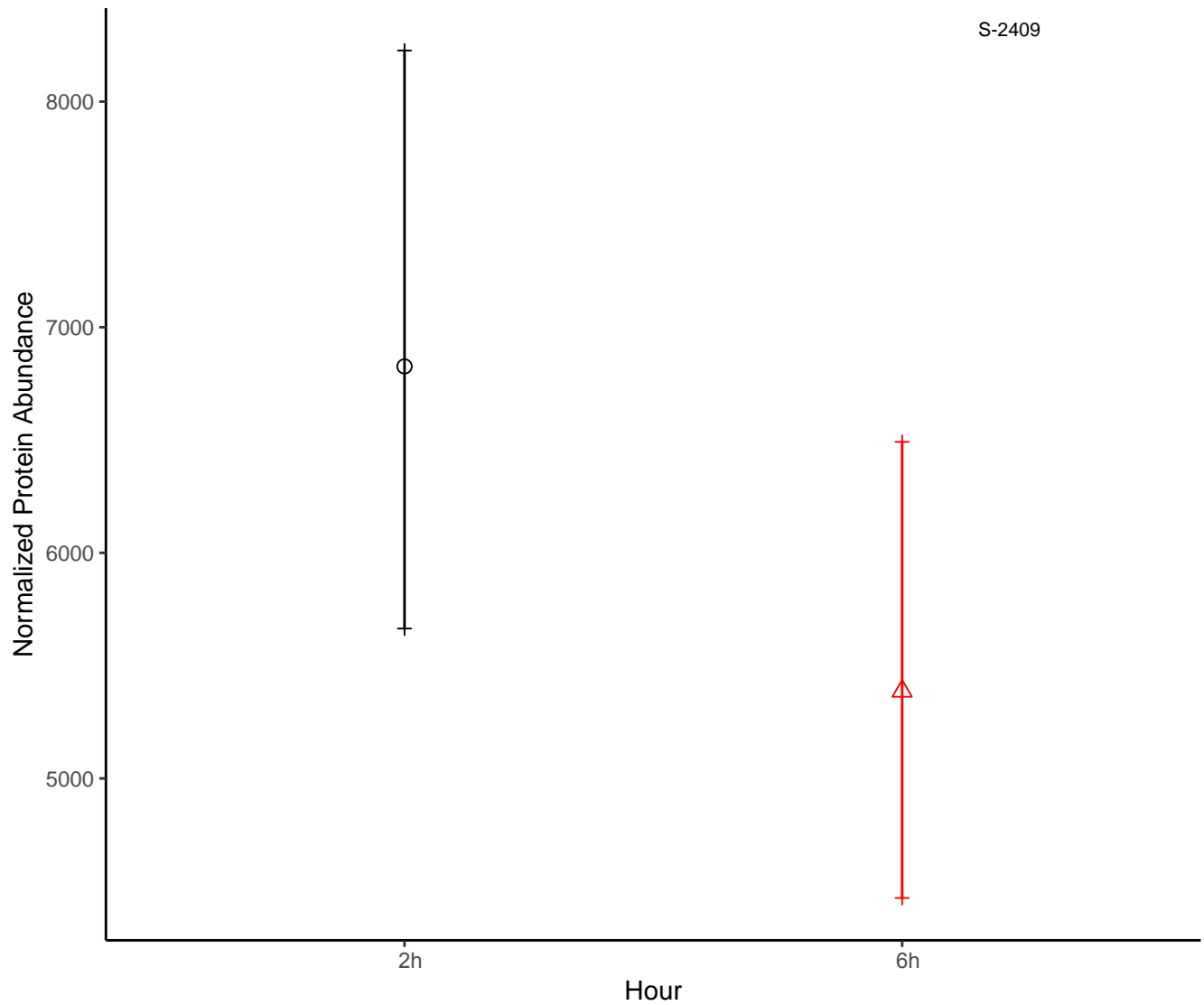
# SYG\_STAAM





# SYH\_STAAM

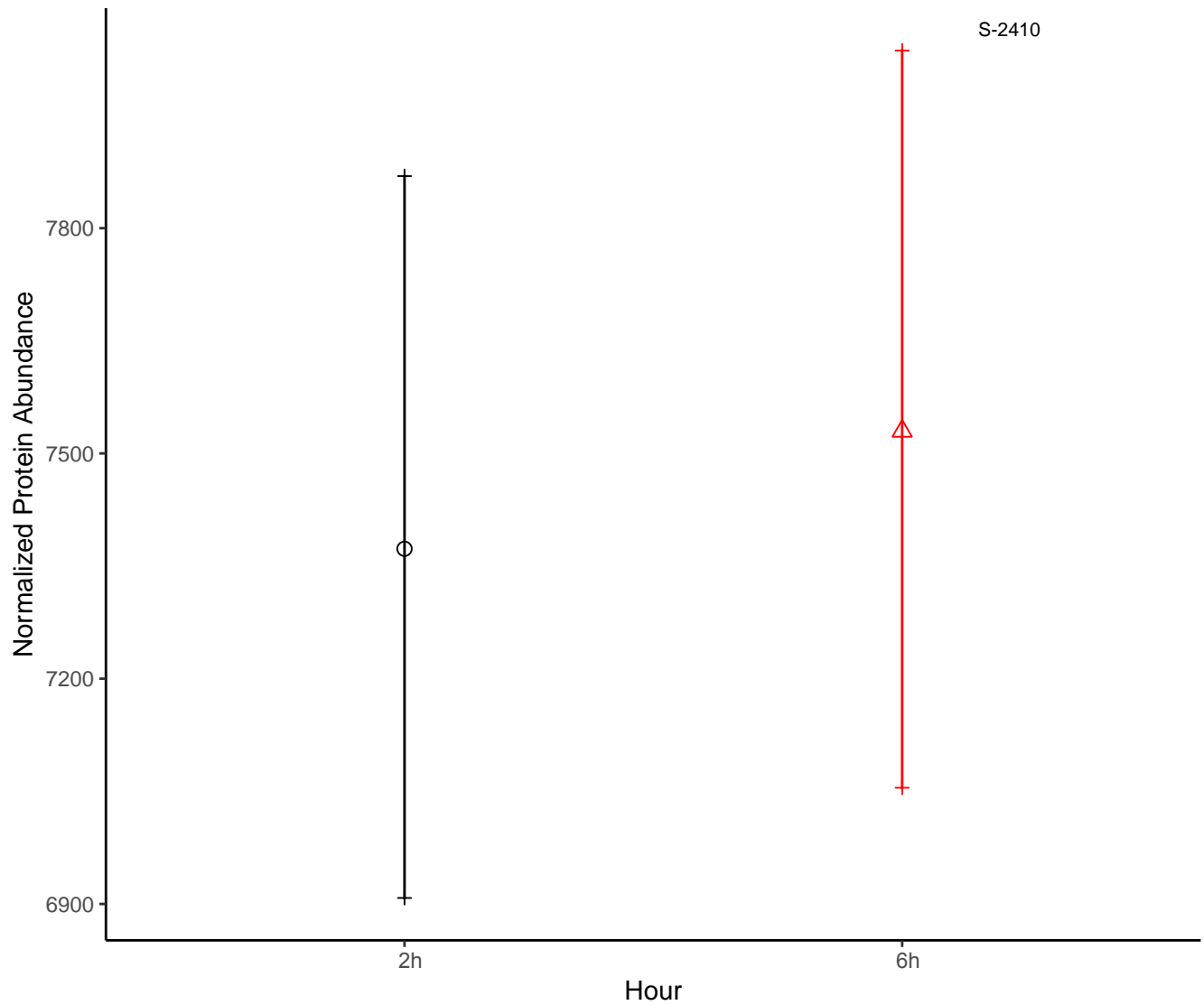
S-2409



⊕ 2h

△ 6h

# SYI\_STAAM

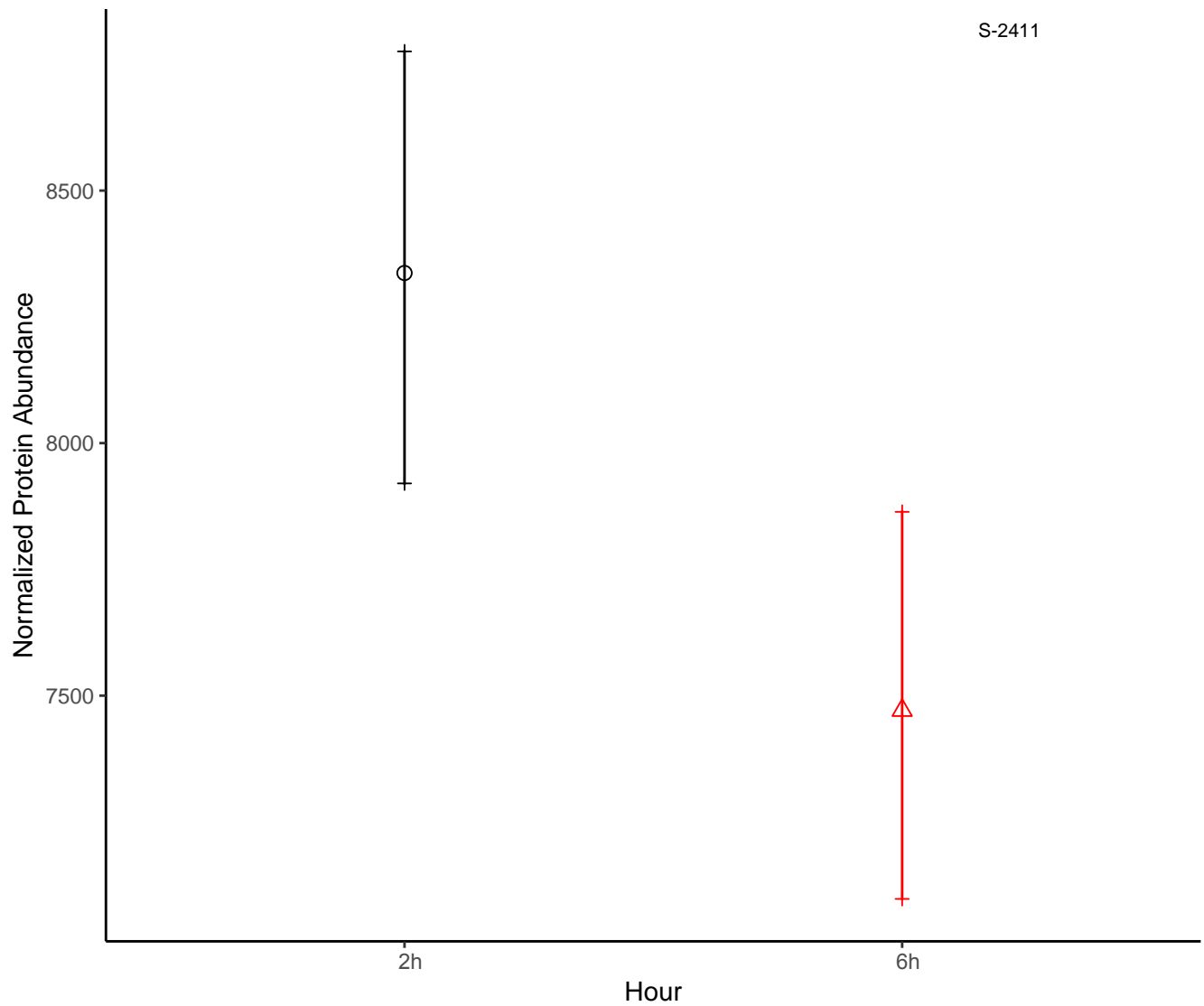


⊕ 2h

△ 6h

# SYK\_STAAM

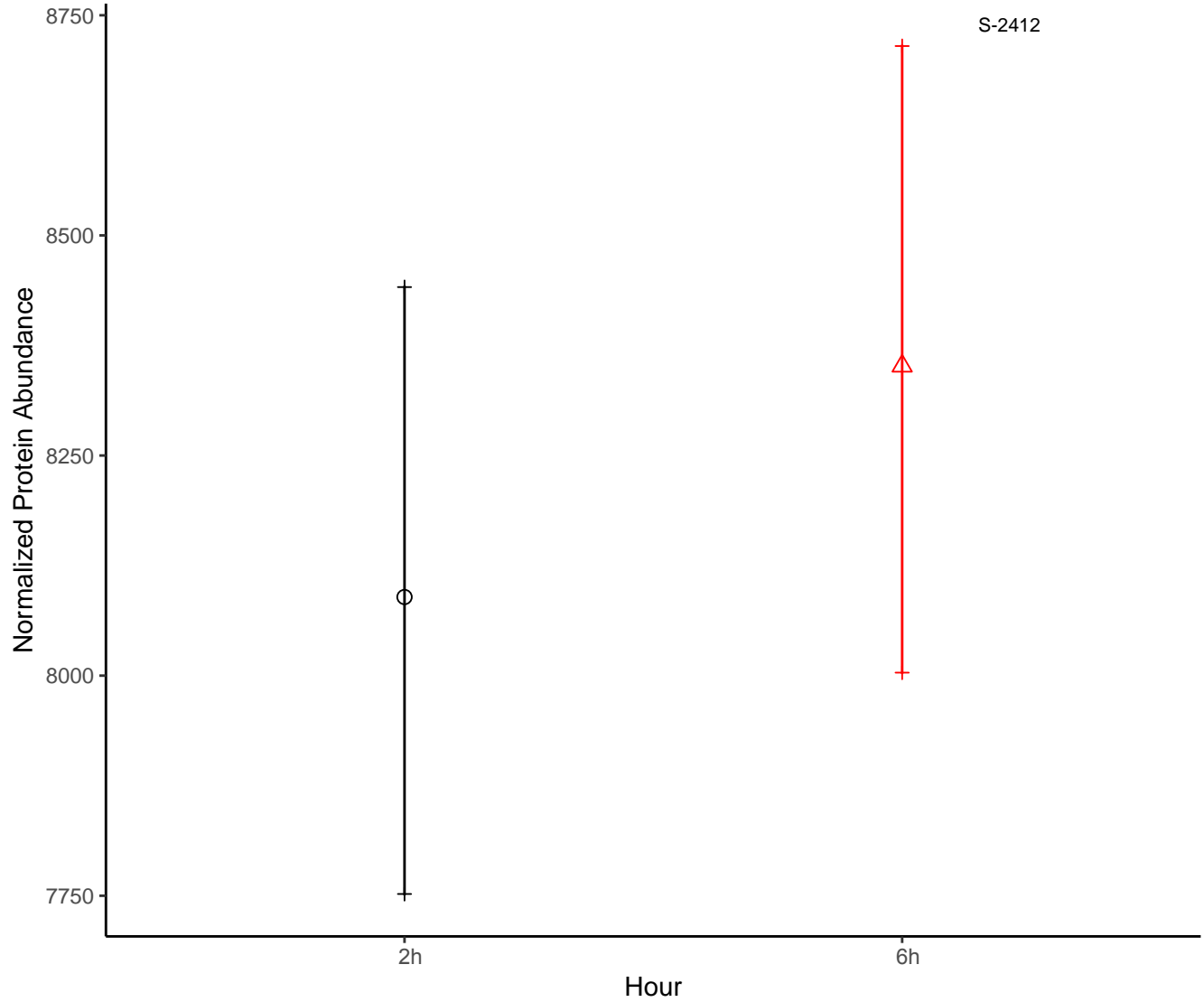
S-2411



⊕ 2h

△ 6h

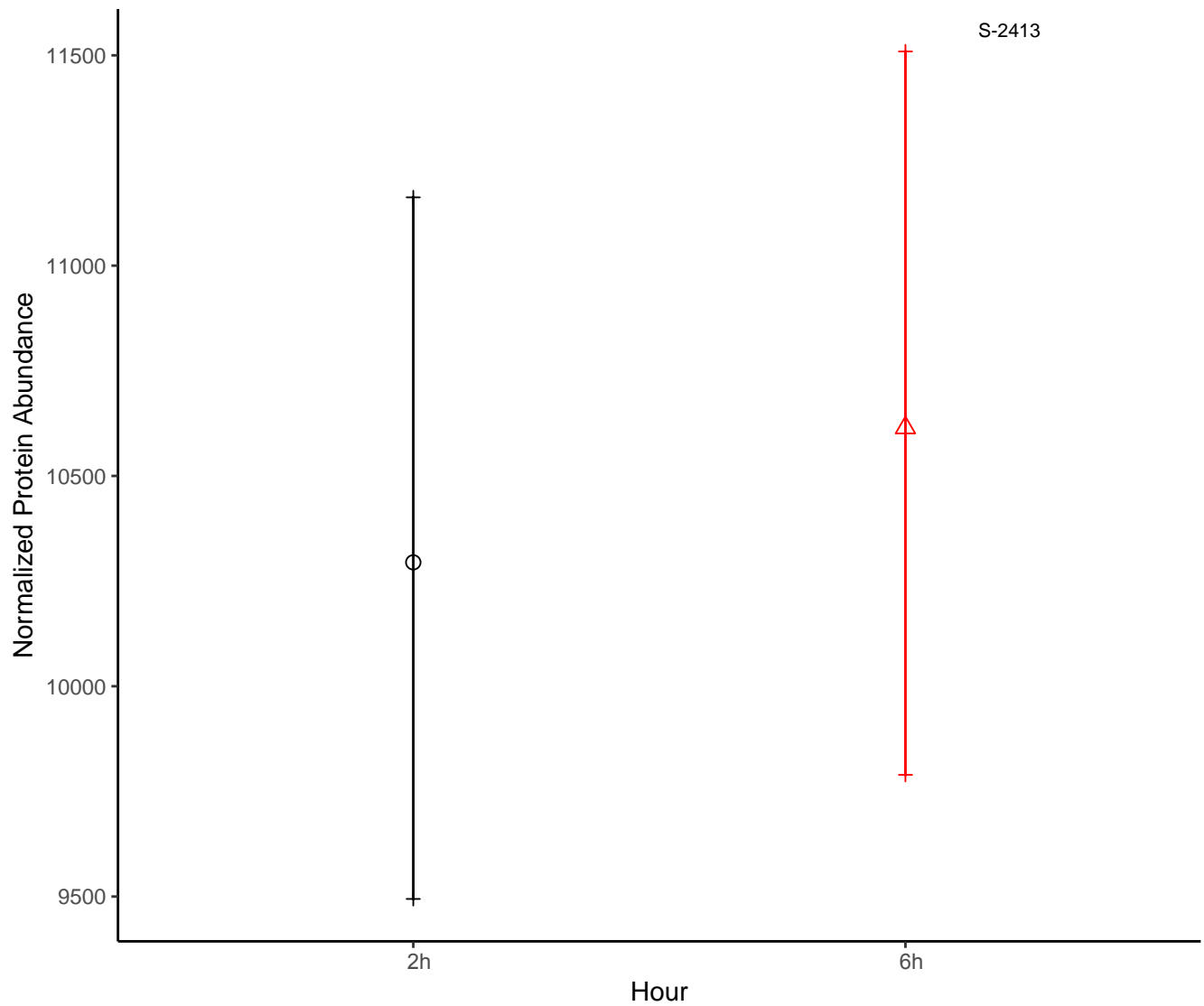
# SYM\_STAAM



⊕ 2h

△ 6h

# SYN\_STAAM

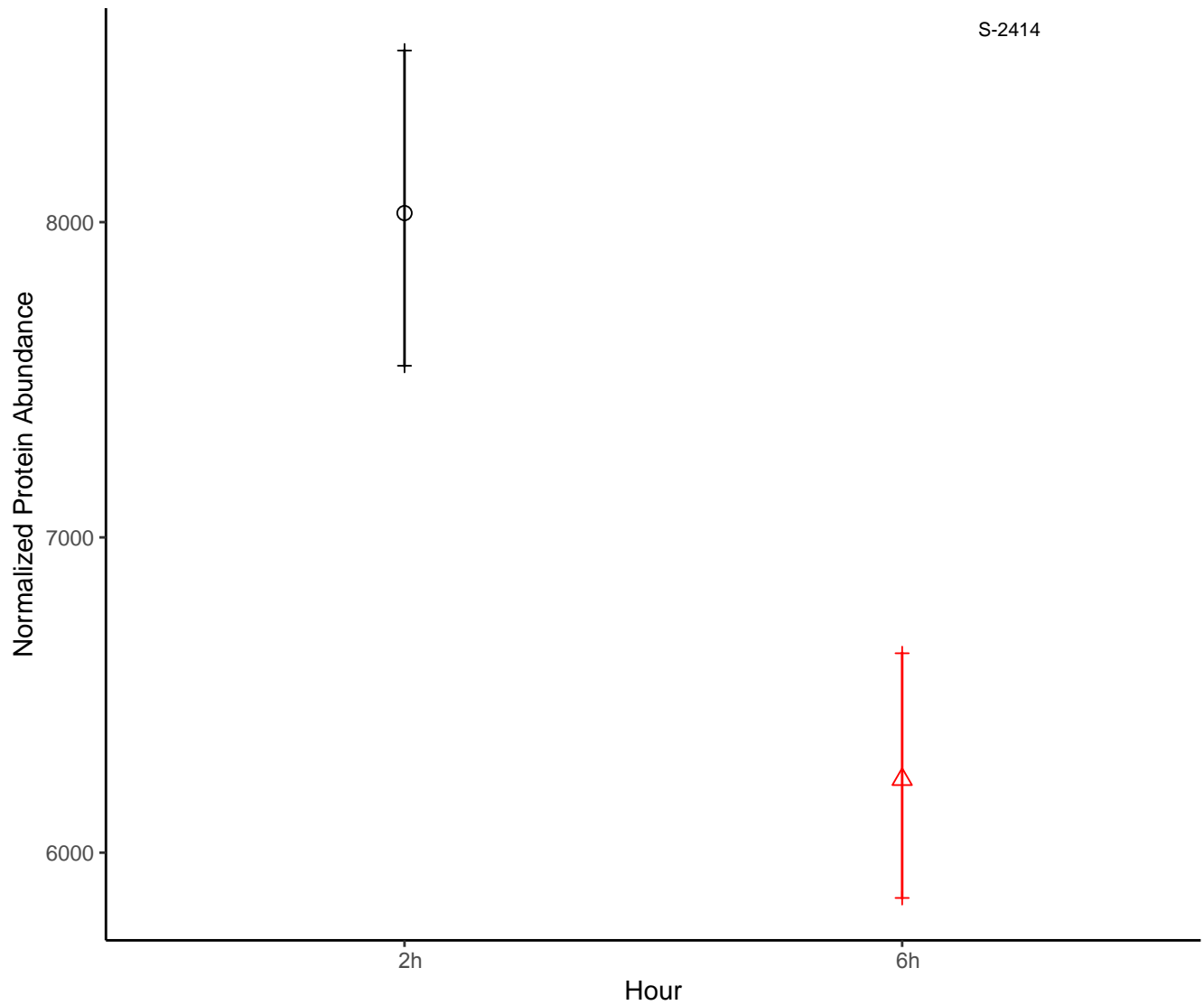


⊕ 2h

△ 6h

# SYP\_STAAM

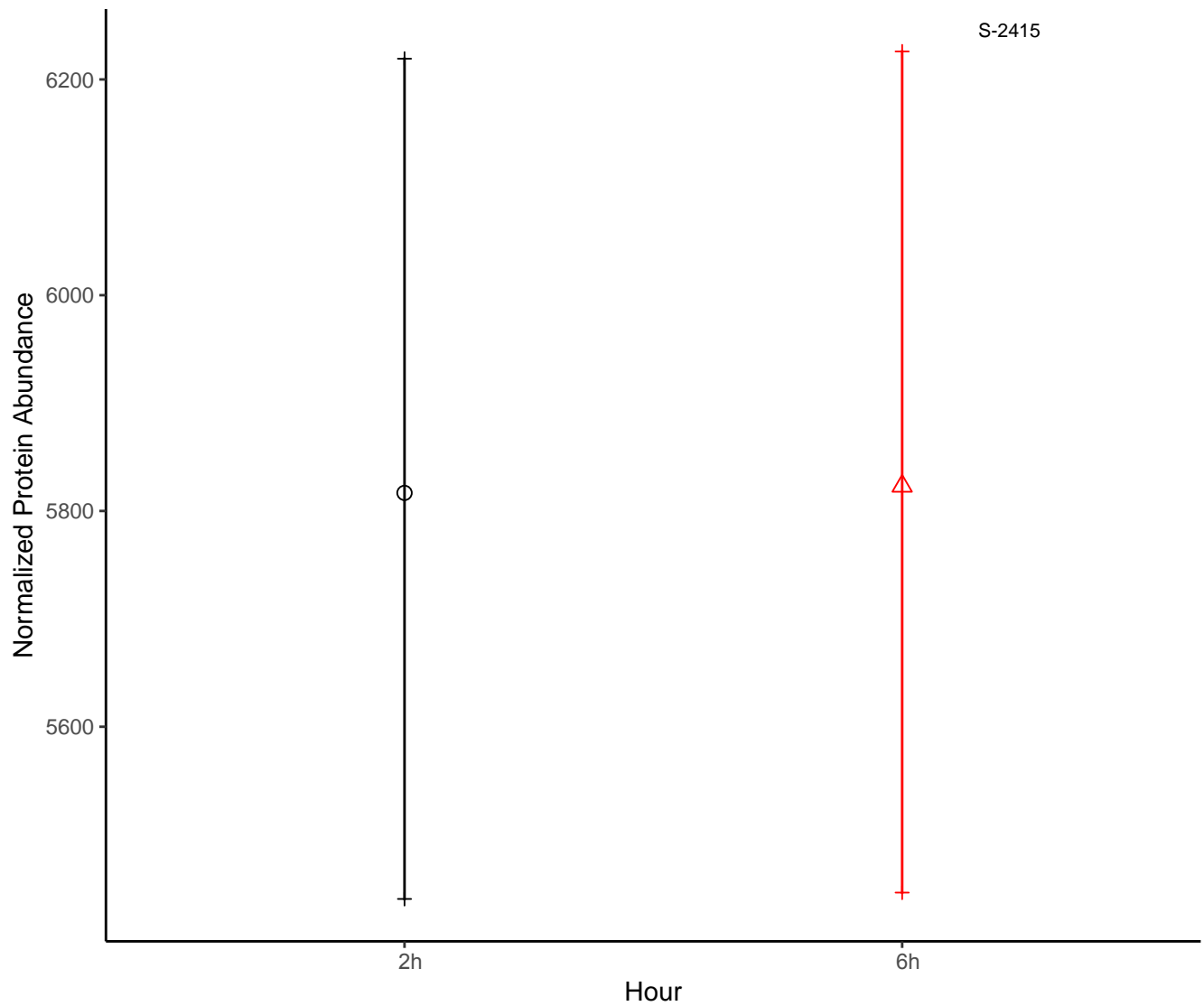
S-2414



⊕ 2h

△ 6h

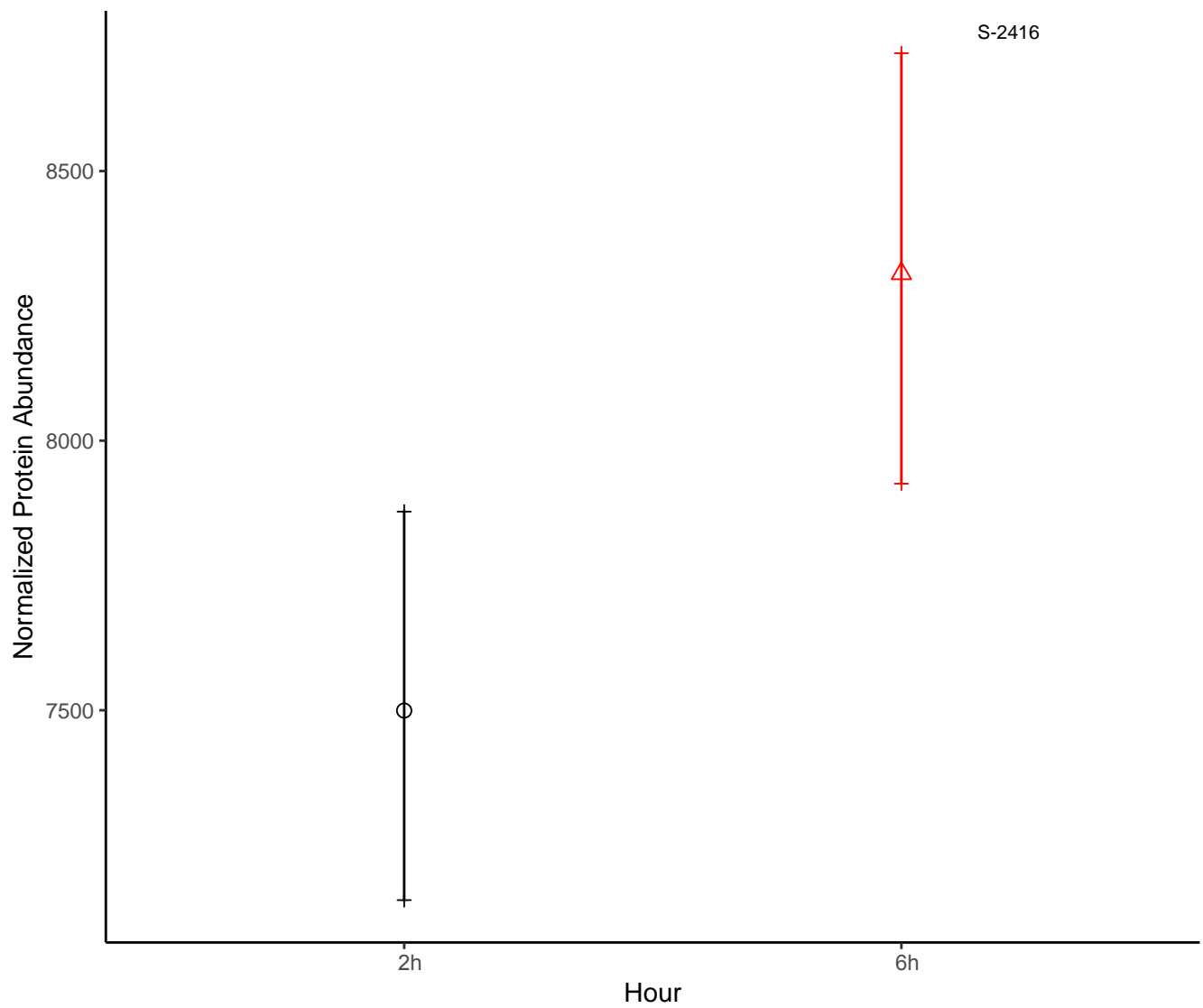
# SYR\_STAAM



⊕ 2h

△ 6h

# SYS\_STAAM

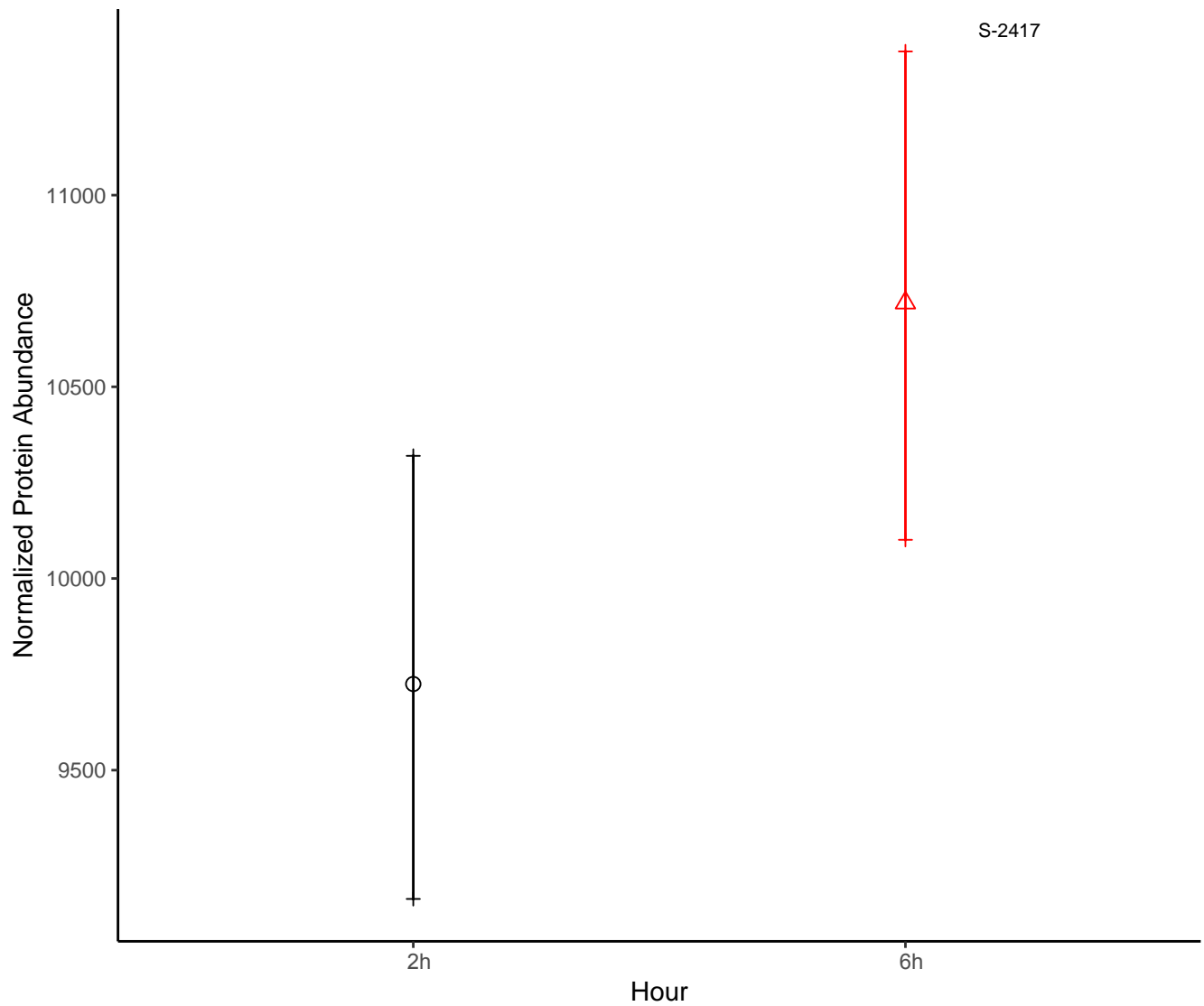


⊕ 2h

△ 6h



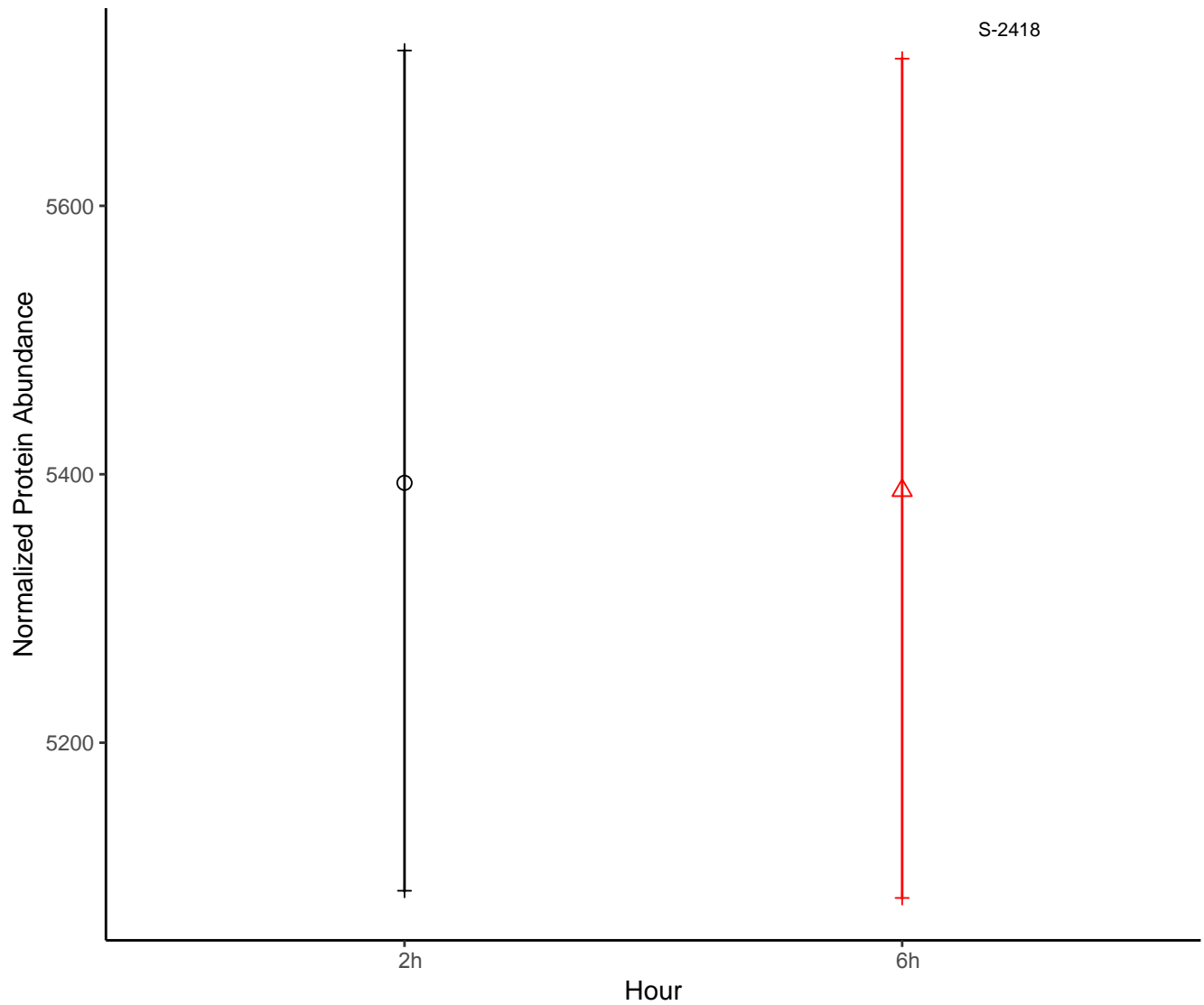
# SYT\_STAAM



⊕ 2h

△ 6h

# SYV\_STAAM

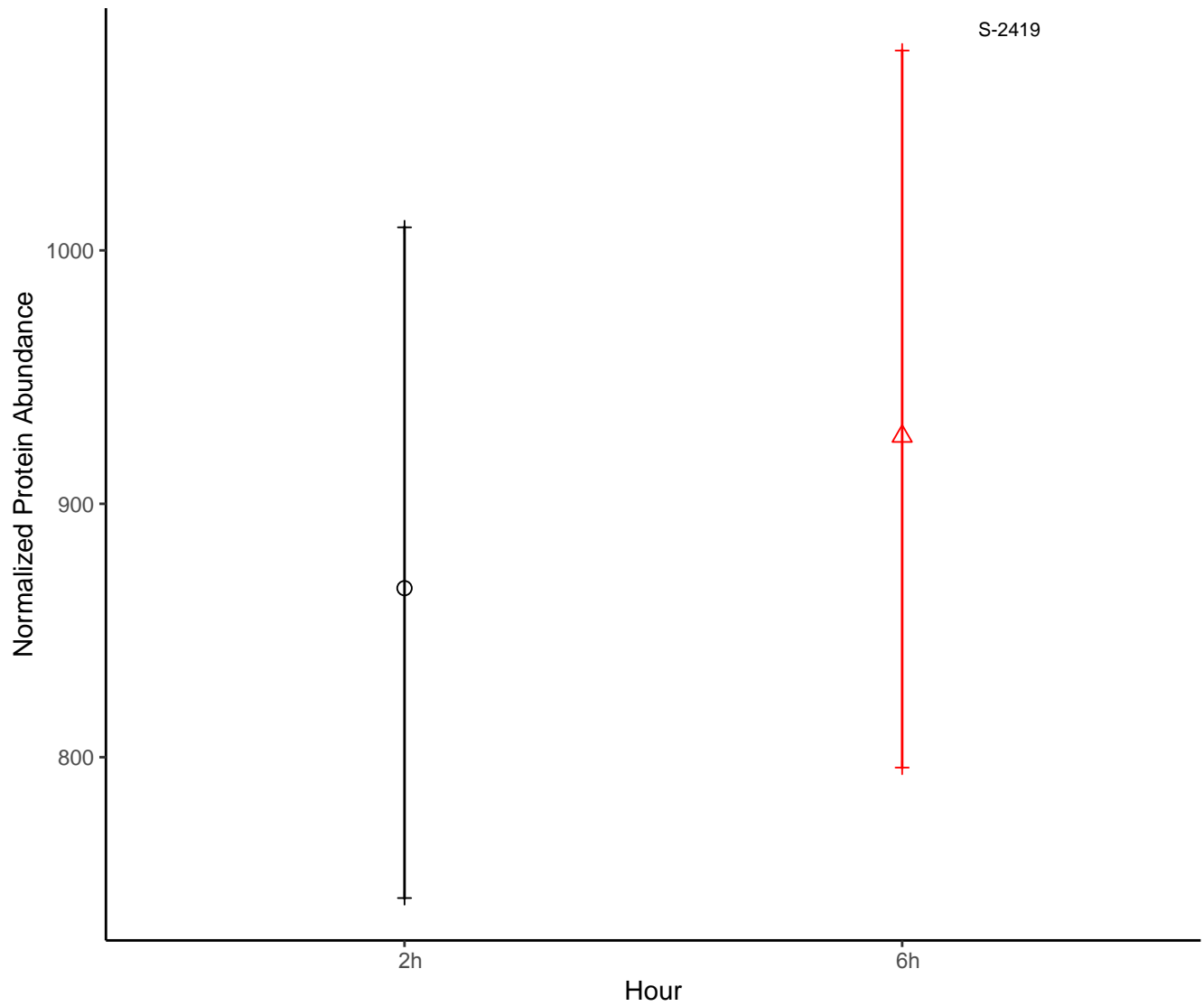


S-2418

⊕ 2h

△ 6h

# SYW\_STAAM

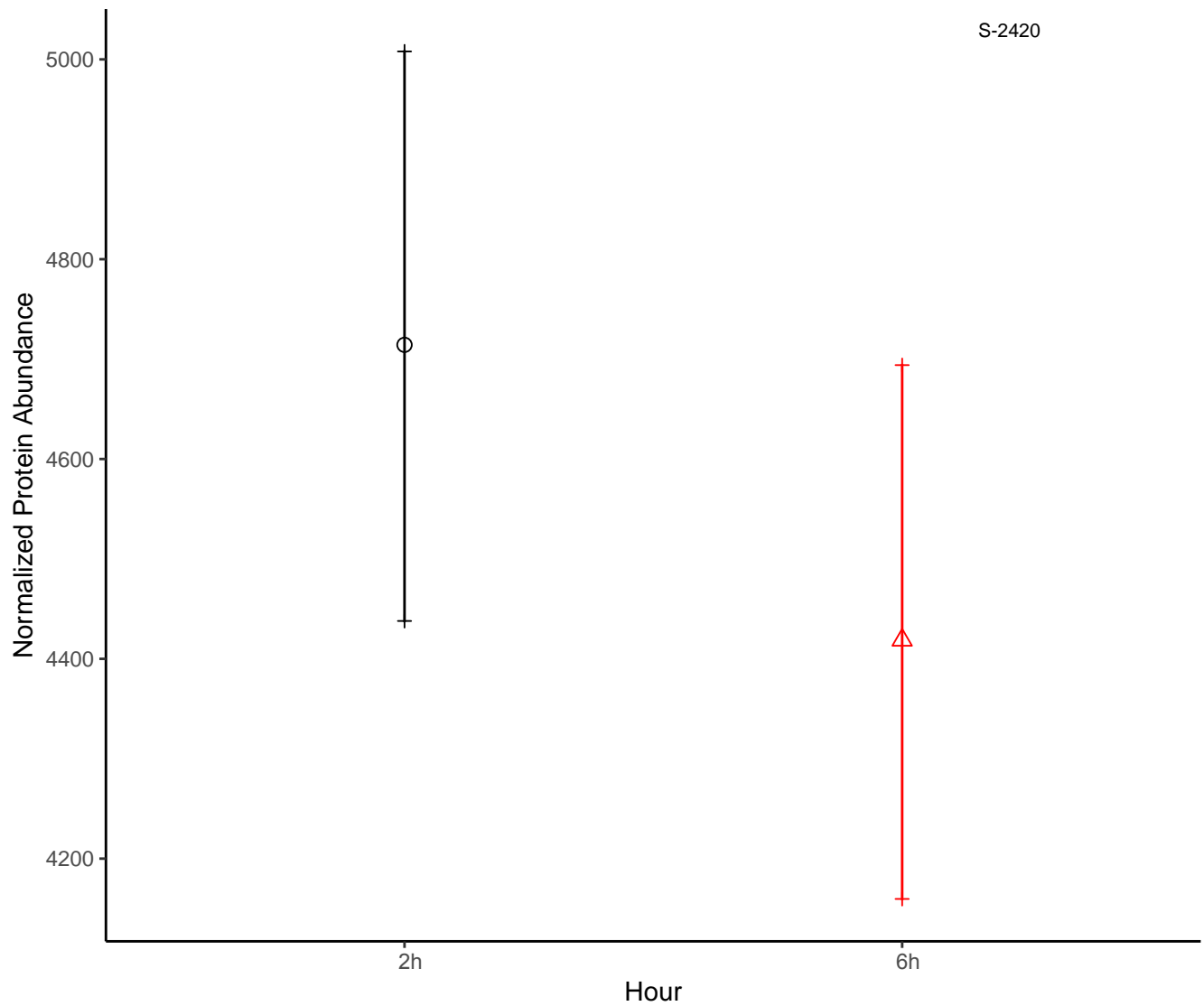


⊕ 2h

△ 6h

# SYT\_STAAM

S-2420

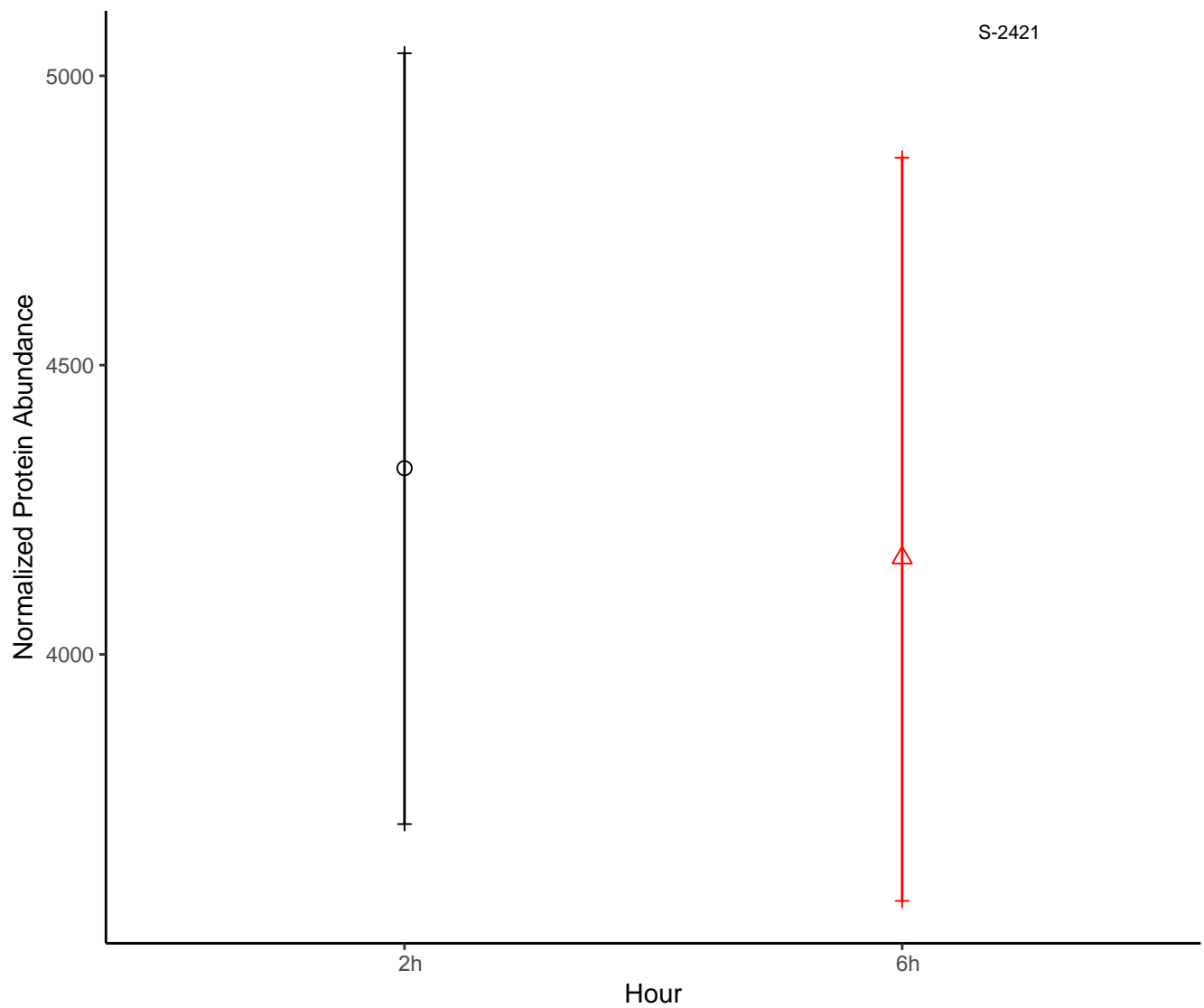


⊕ 2h

△ 6h

# T431\_STAAM

S-2421

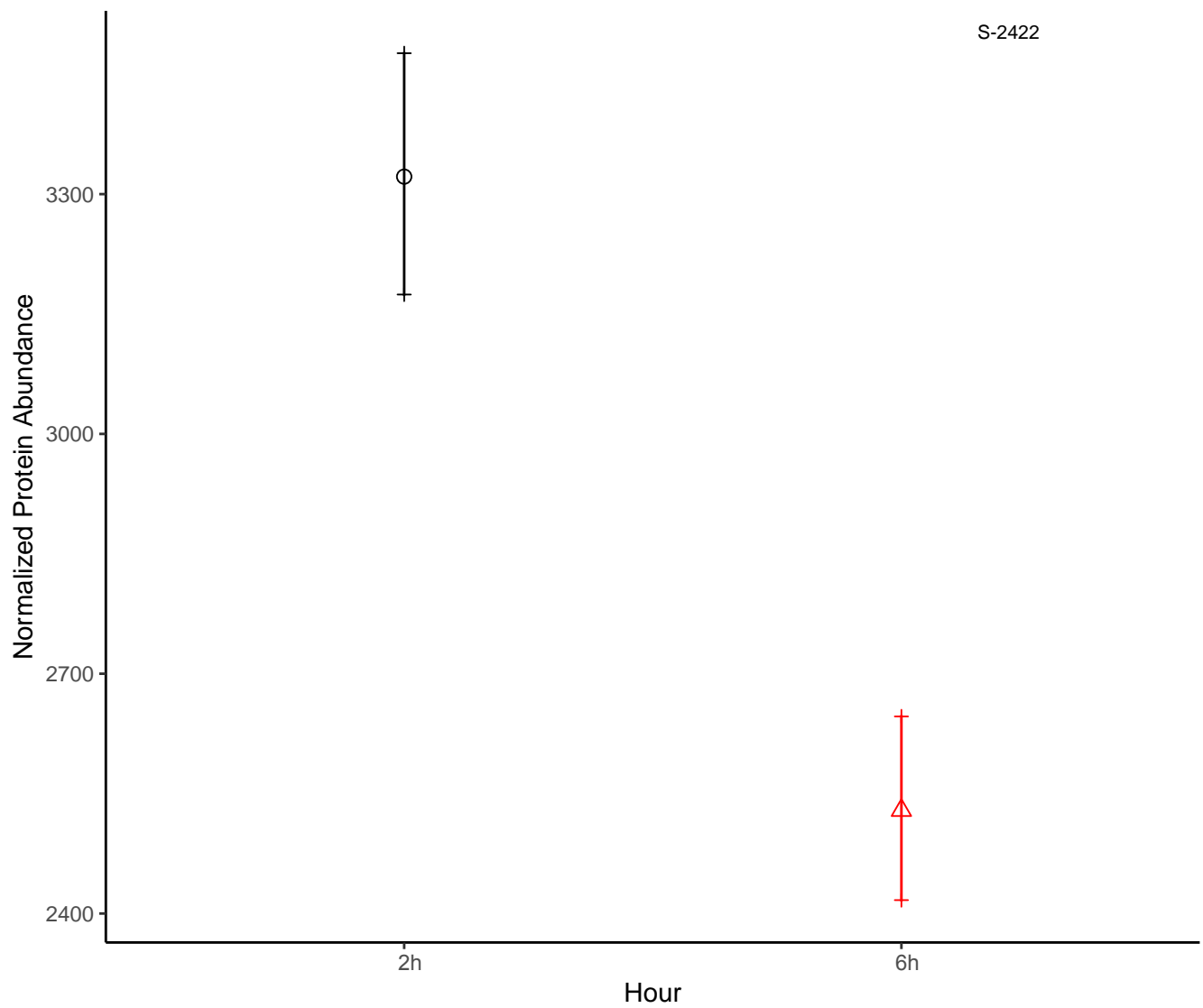


⊕ 2h

△ 6h

# TADA\_STAAM

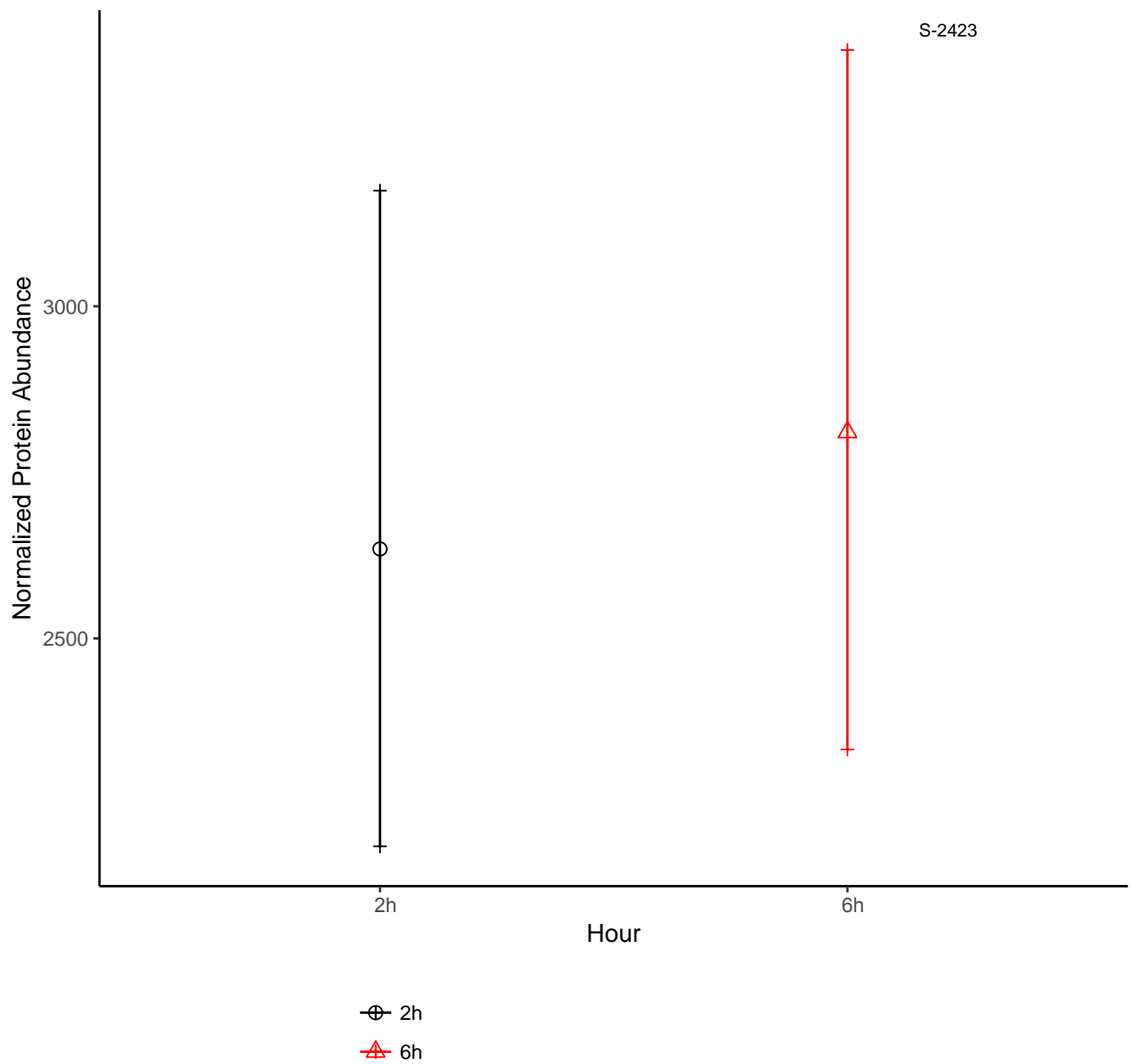
S-2422



⊕ 2h

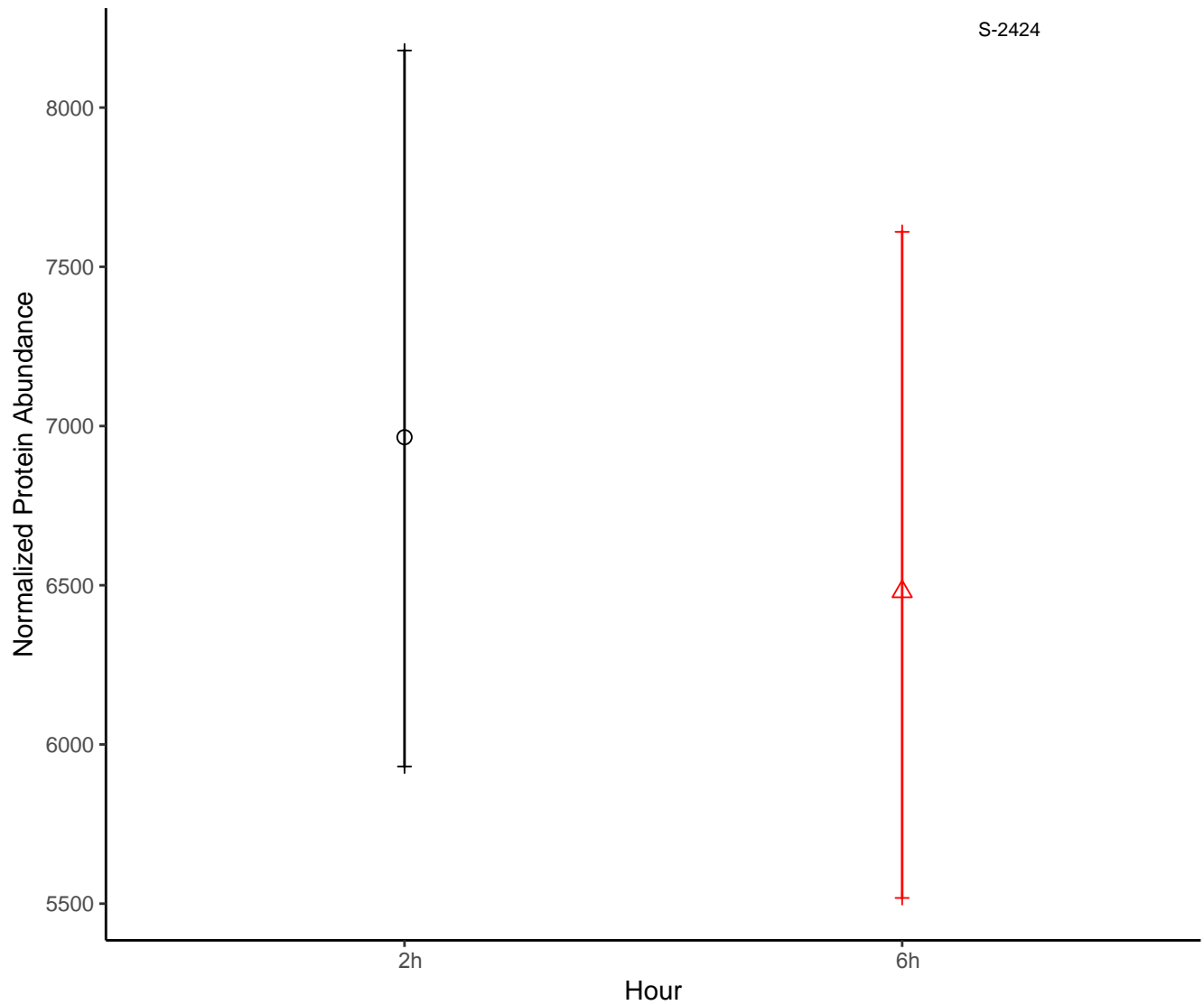
△ 6h

# TAGA\_STAAM



# TDCB\_STAAM

S-2424

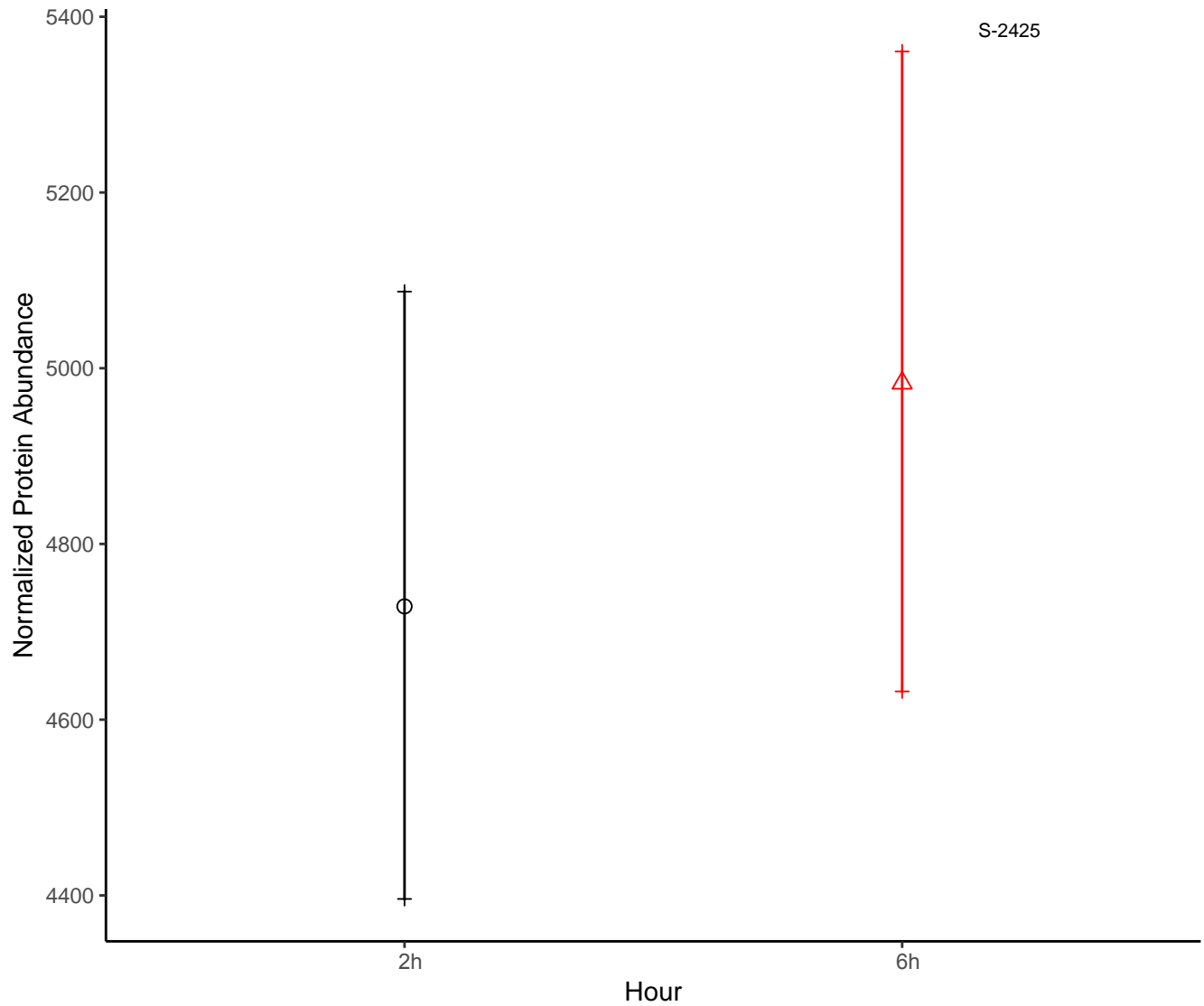


⊕ 2h

△ 6h



# TELL\_STAAM

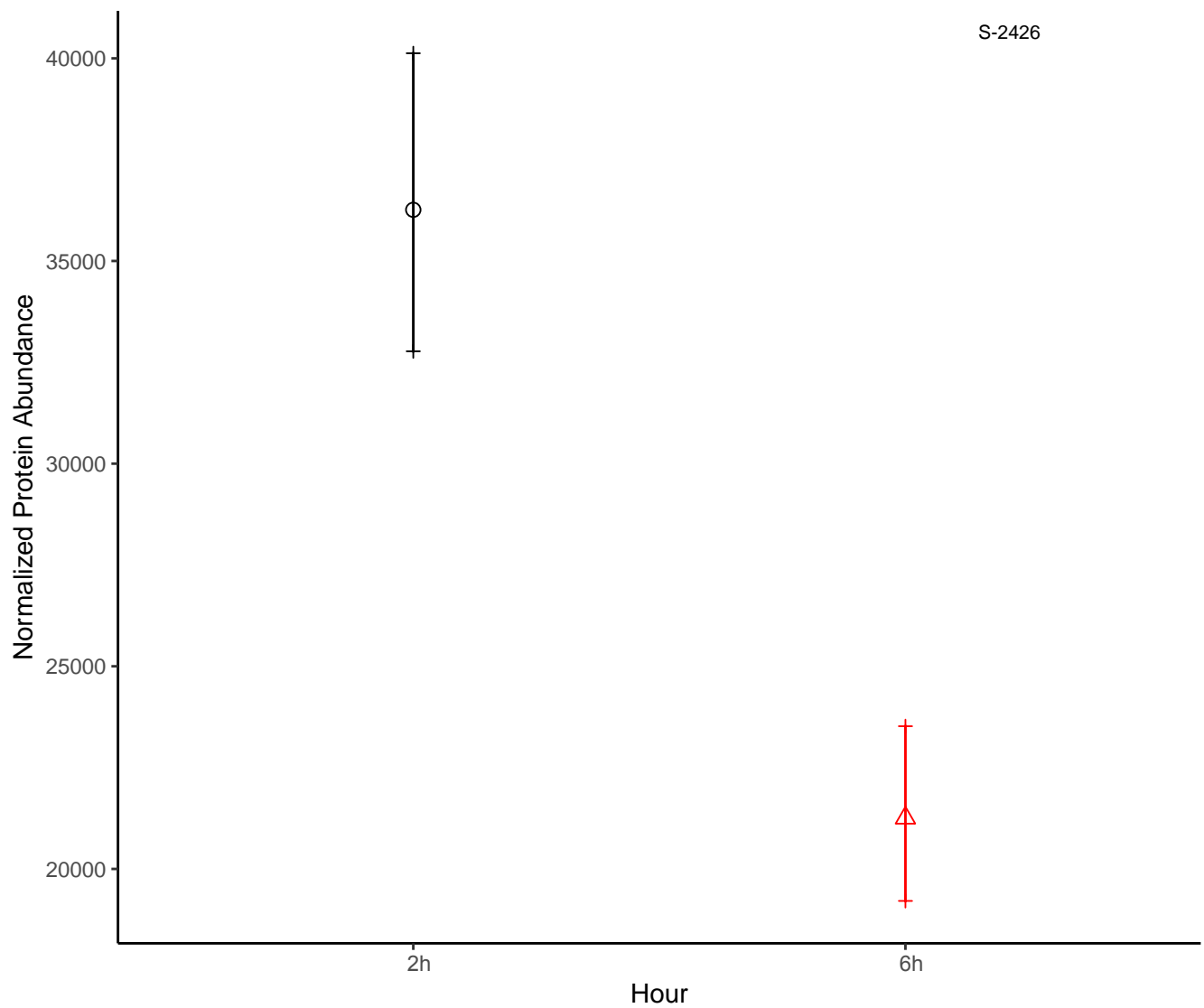


⊕ 2h

△ 6h

# THID\_STAAM

S-2426

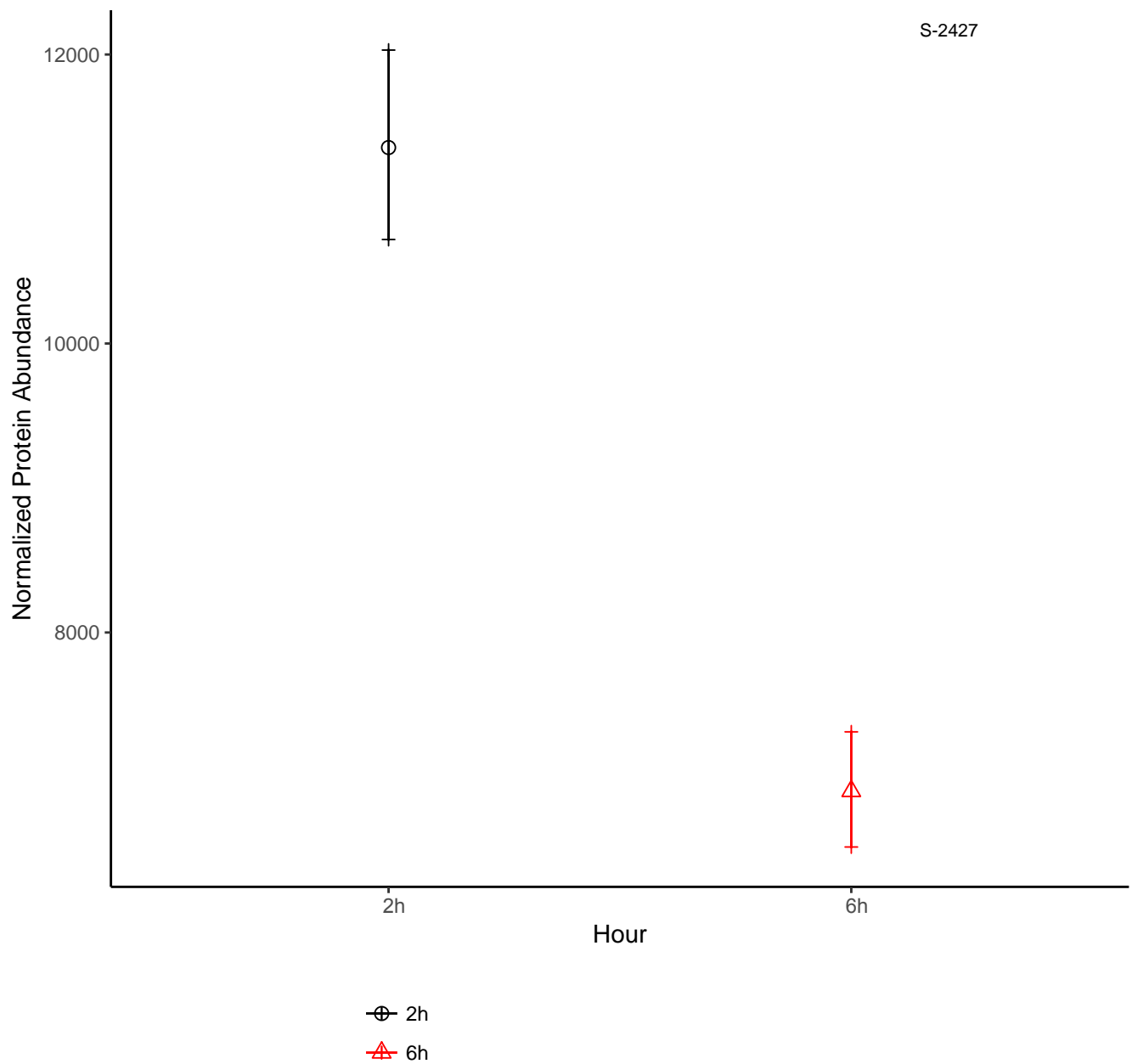


⊕ 2h

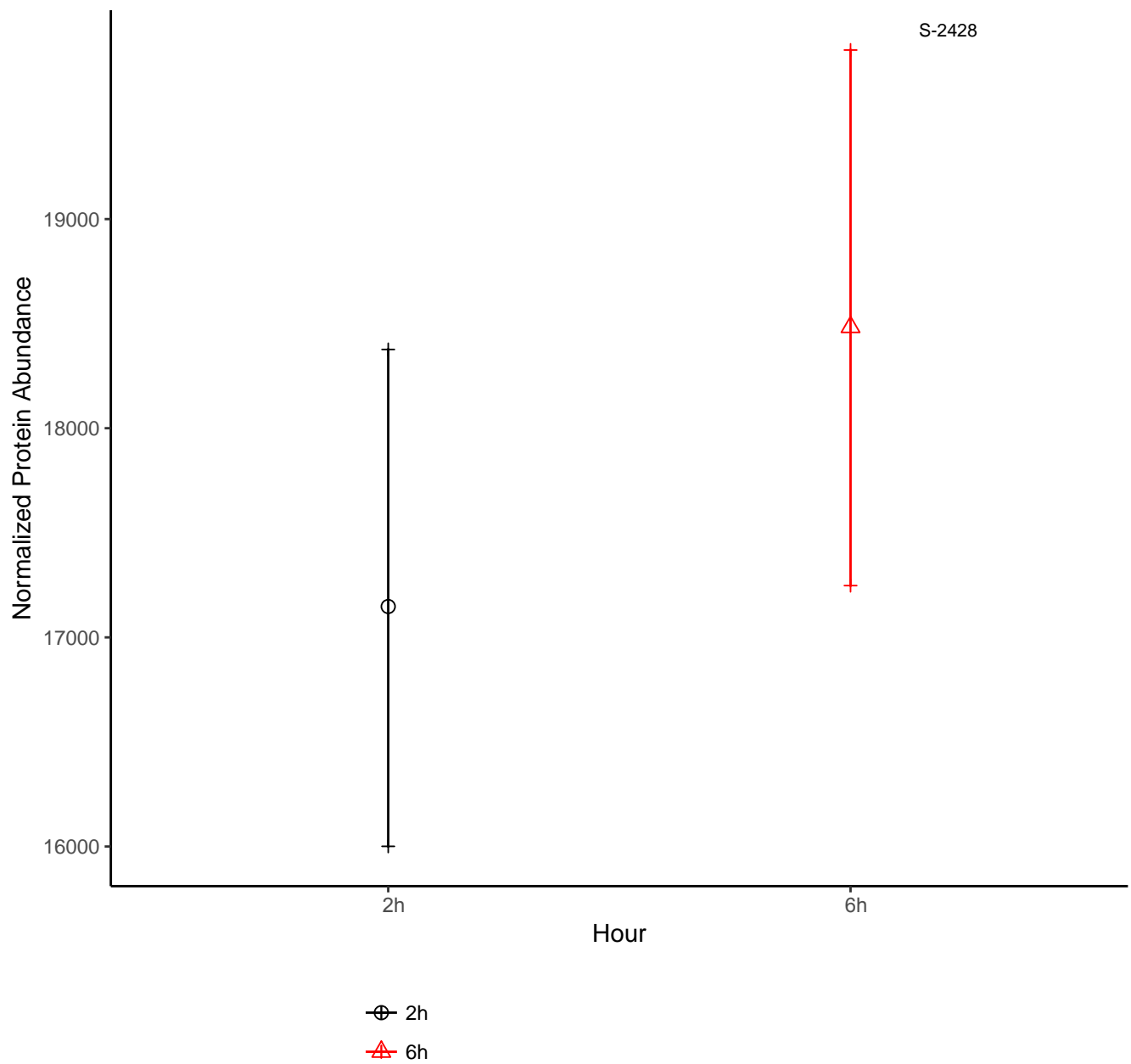
△ 6h

# THIM\_STAAM

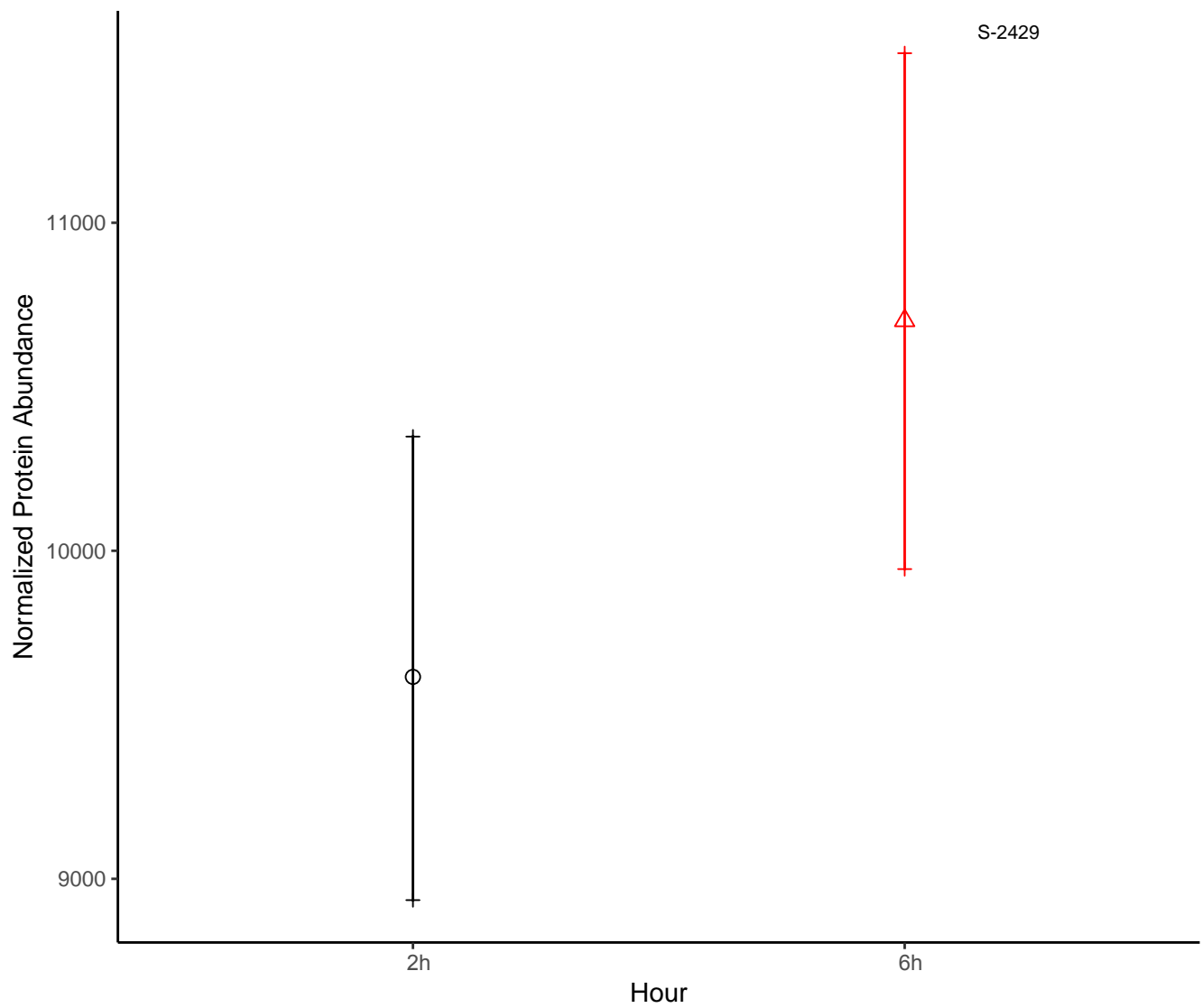
S-2427



# THIO\_STAAM



# THLA\_STAAM

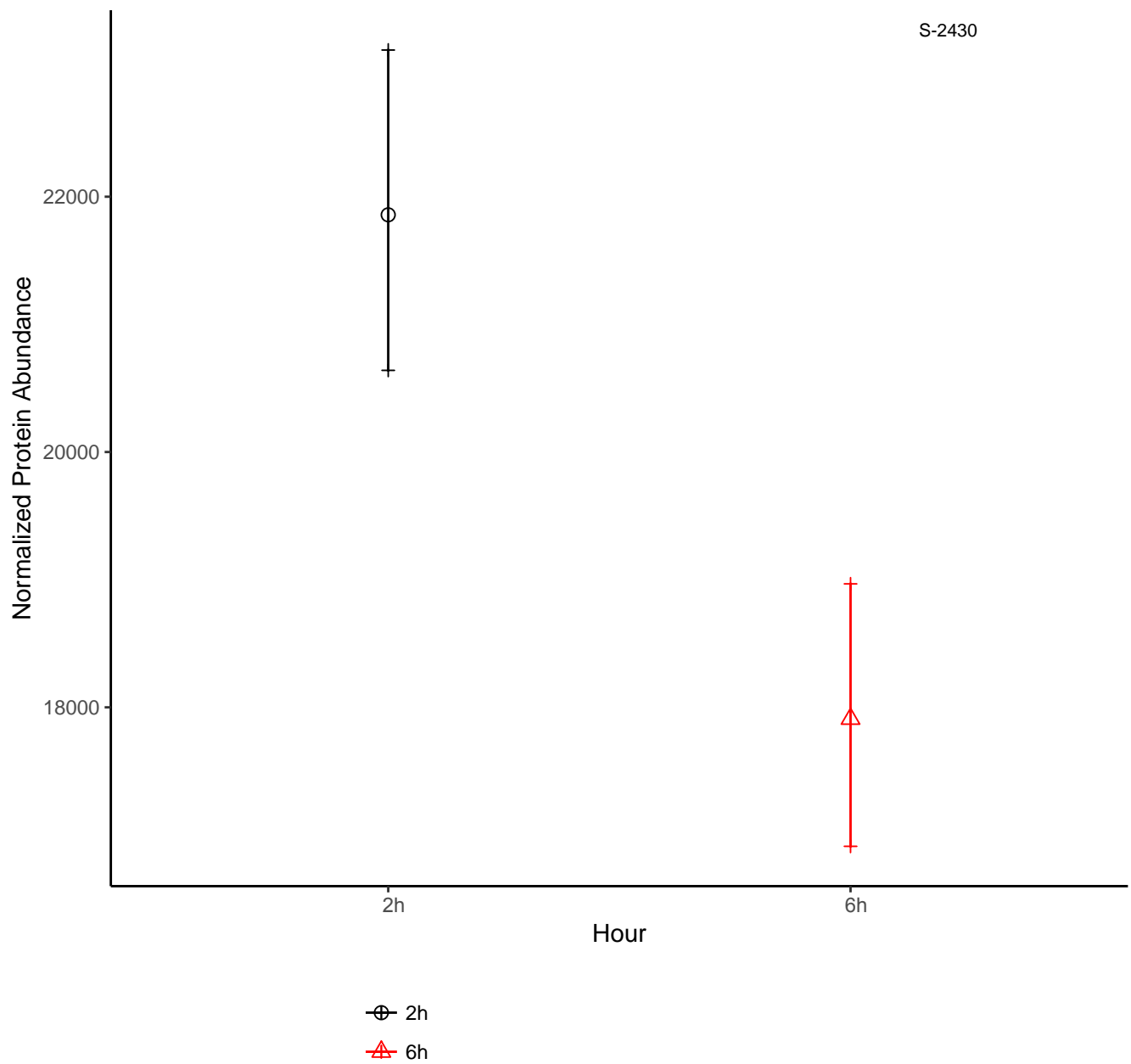


⊕ 2h

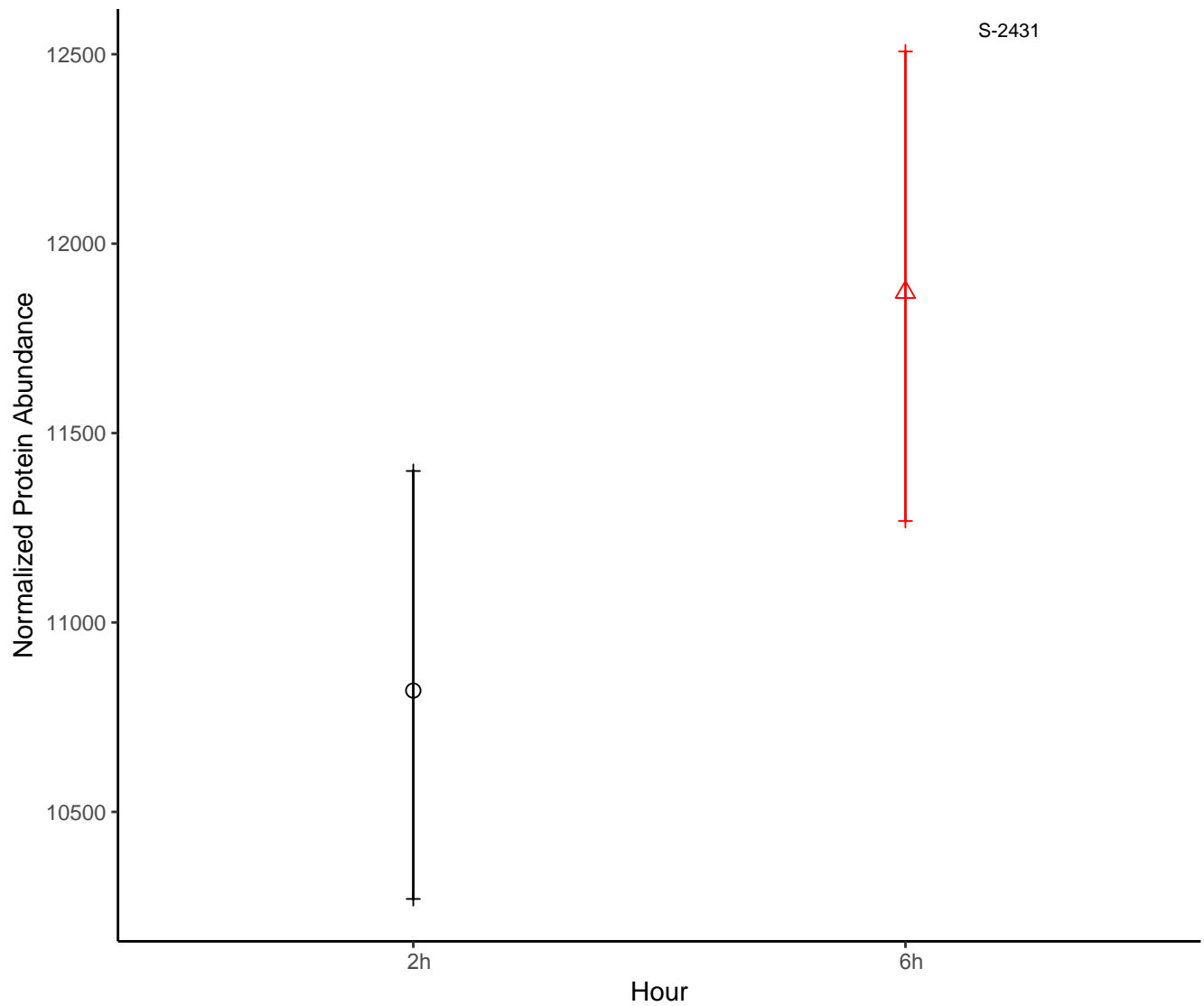
△ 6h

# TIG\_STAAM

S-2430



# TKT\_STAAM

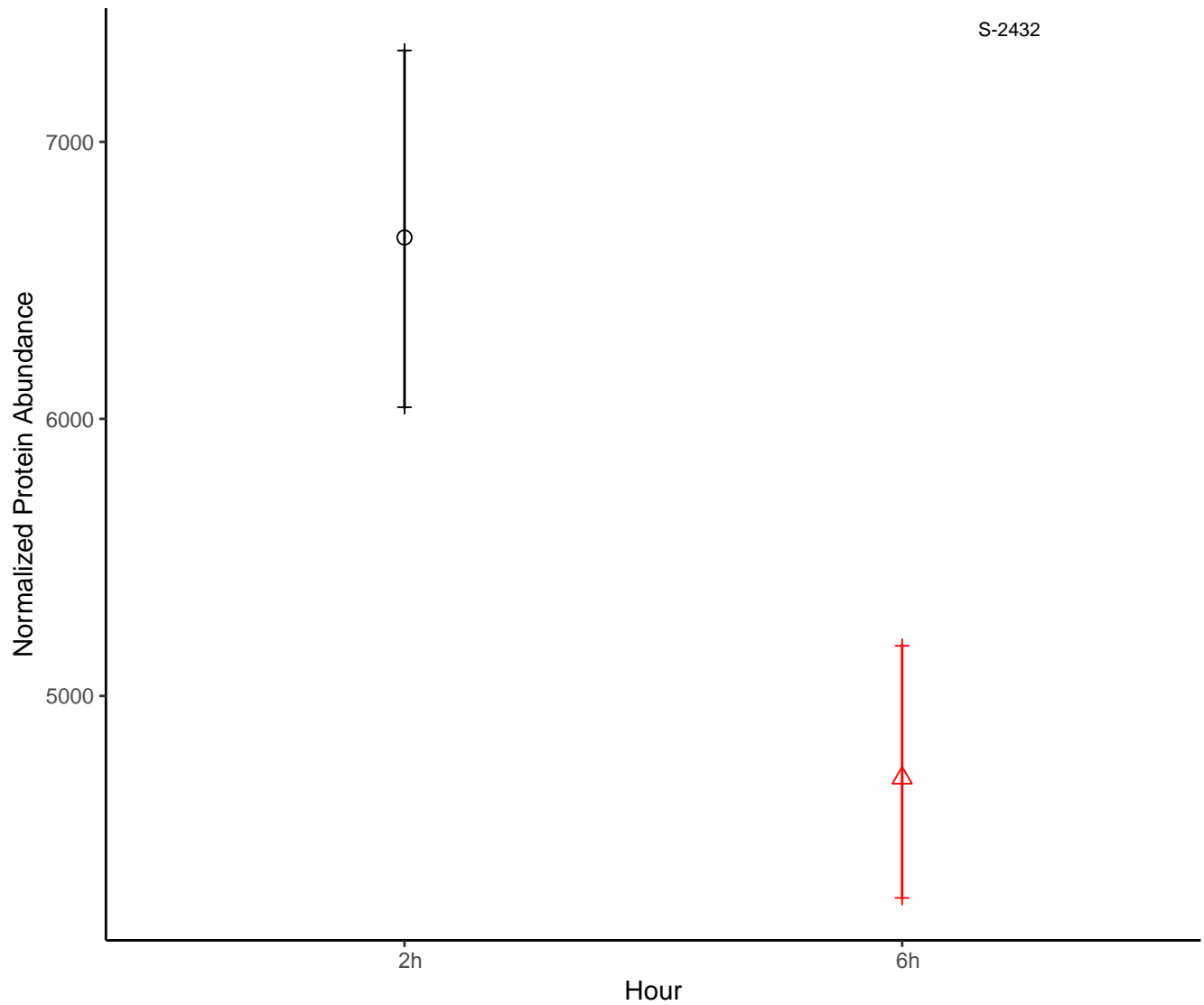


⊕ 2h

△ 6h

# TOP1\_STAAM

S-2432



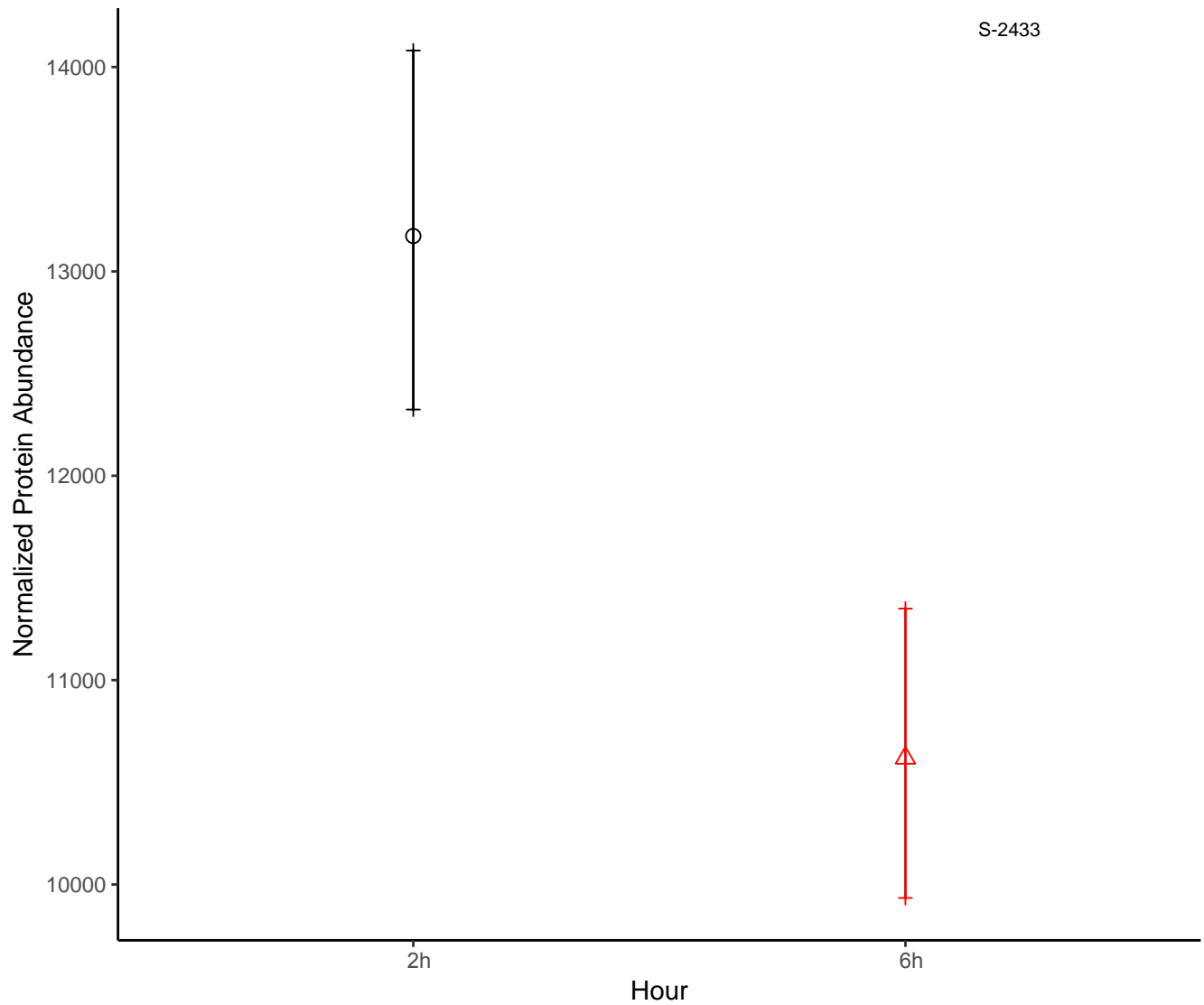
⊕ 2h

△ 6h



# TOP3\_STAAM

S-2433

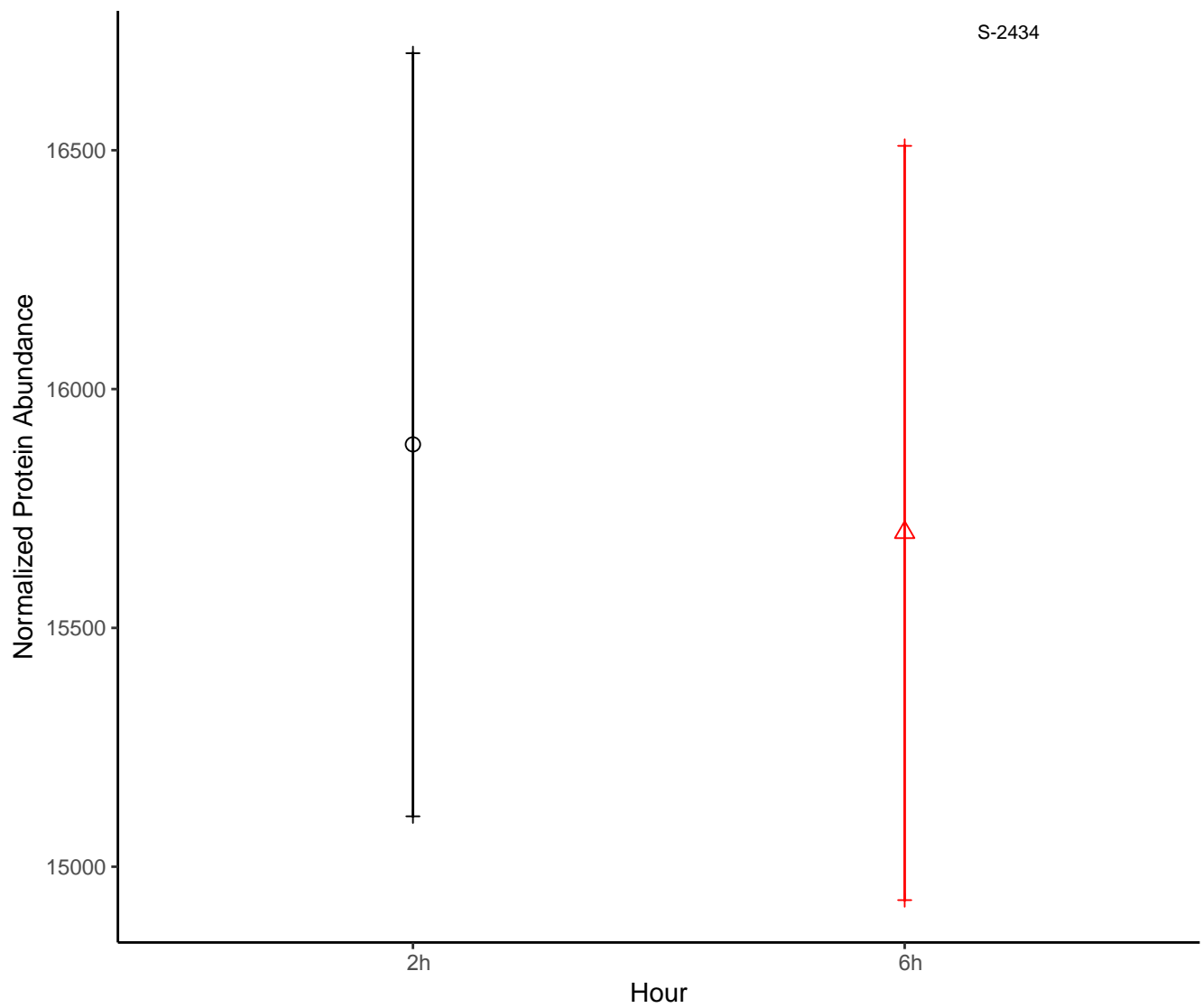


⊕ 2h

△ 6h

# TPIS\_STAAM

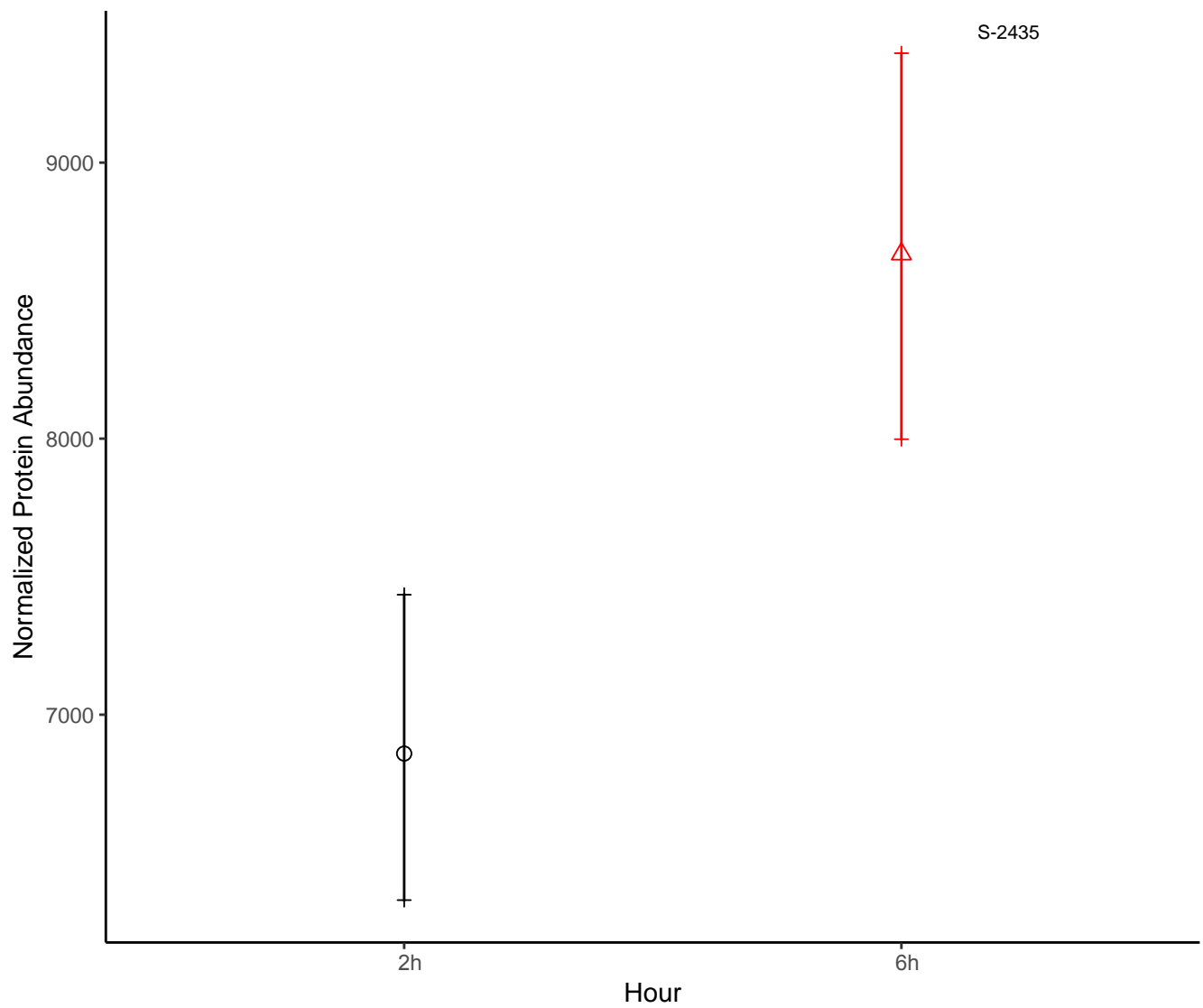
S-2434



⊕ 2h

△ 6h

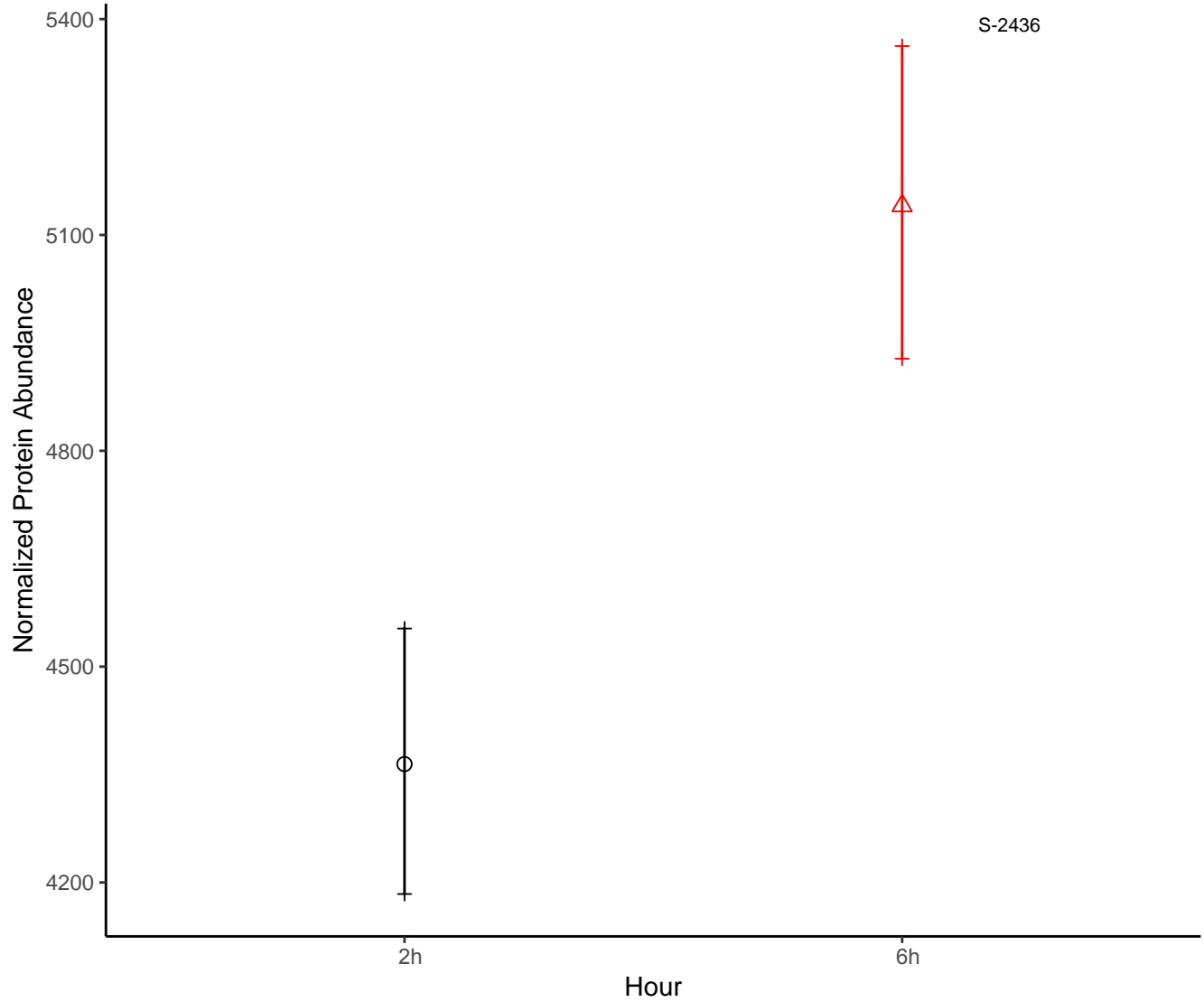
# TPX\_STAAM



⊕ 2h

△ 6h

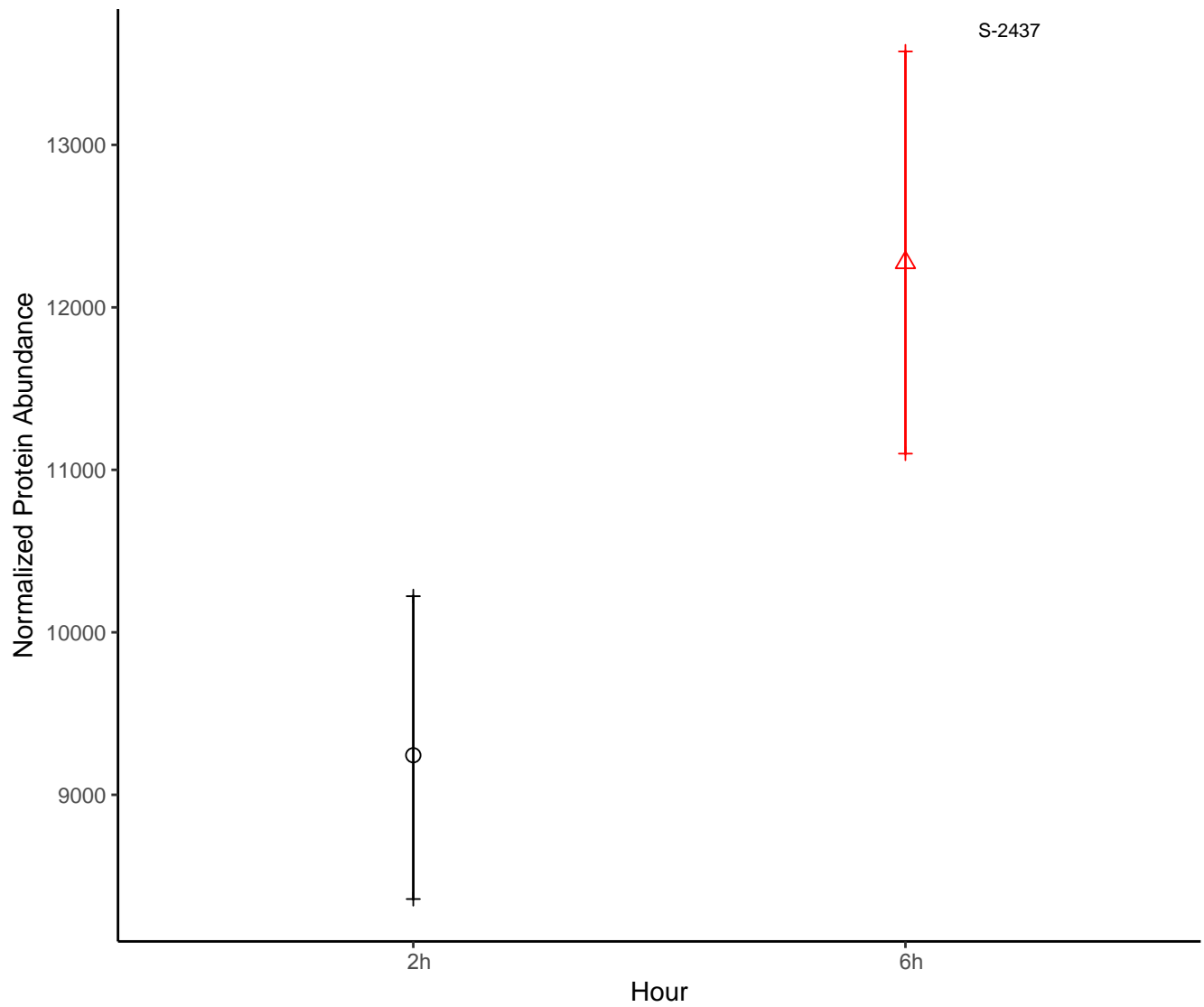
# TRAC\_STAAM



⊕ 2h

△ 6h

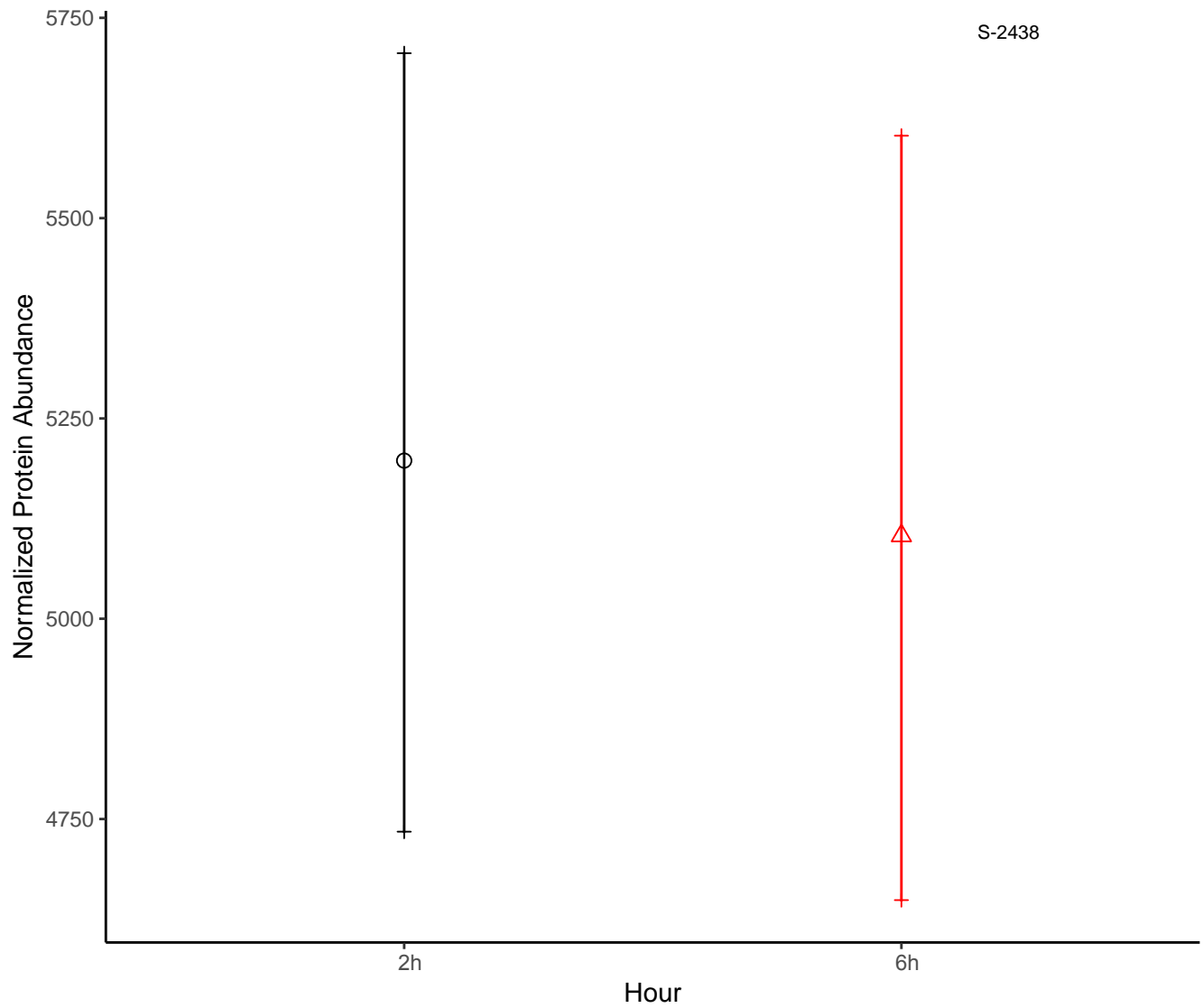
# TRAP\_STAAM



⊕ 2h

△ 6h

# TRMB\_STAAM

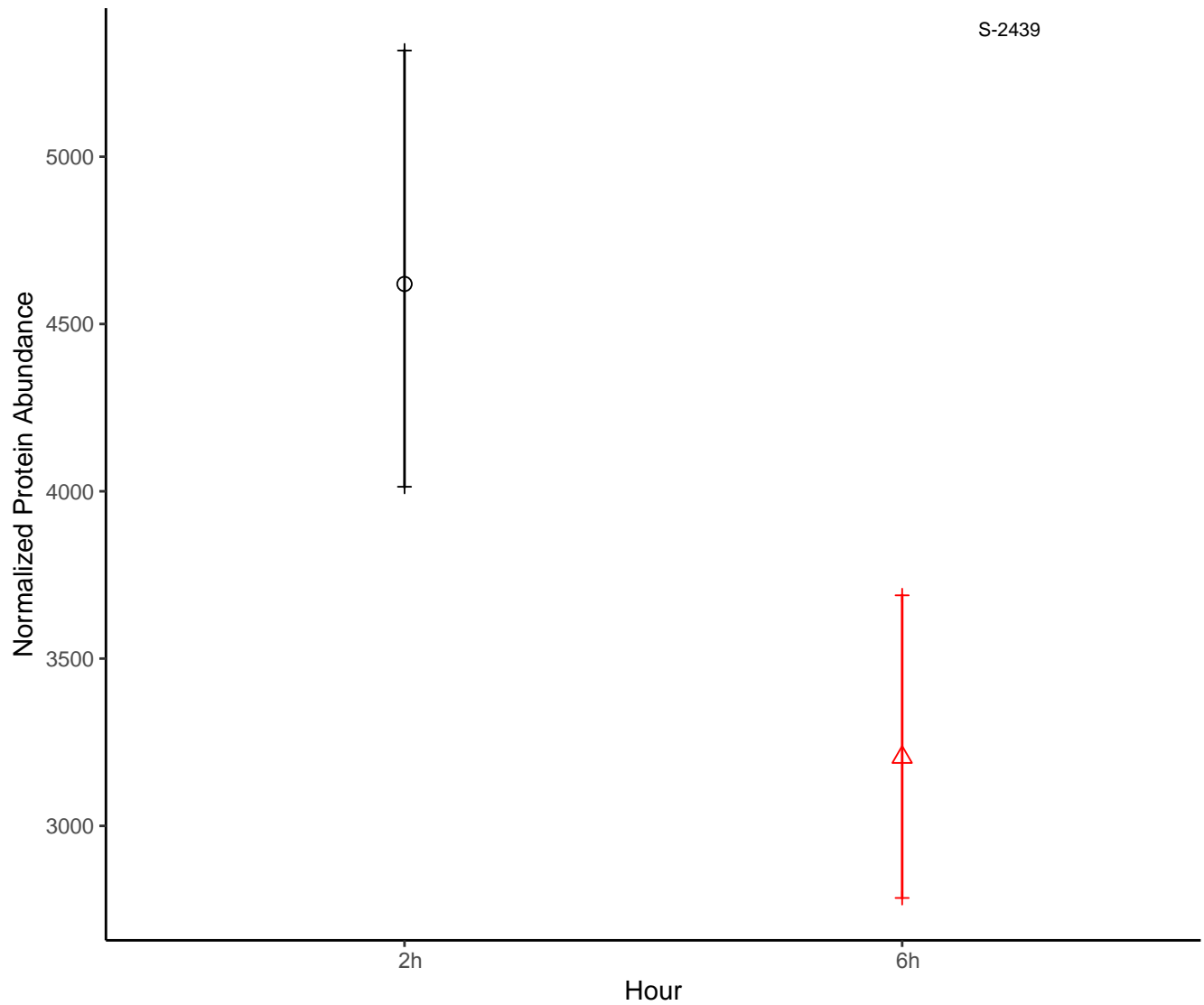


⊕ 2h

△ 6h

# TRMFO\_STAAM

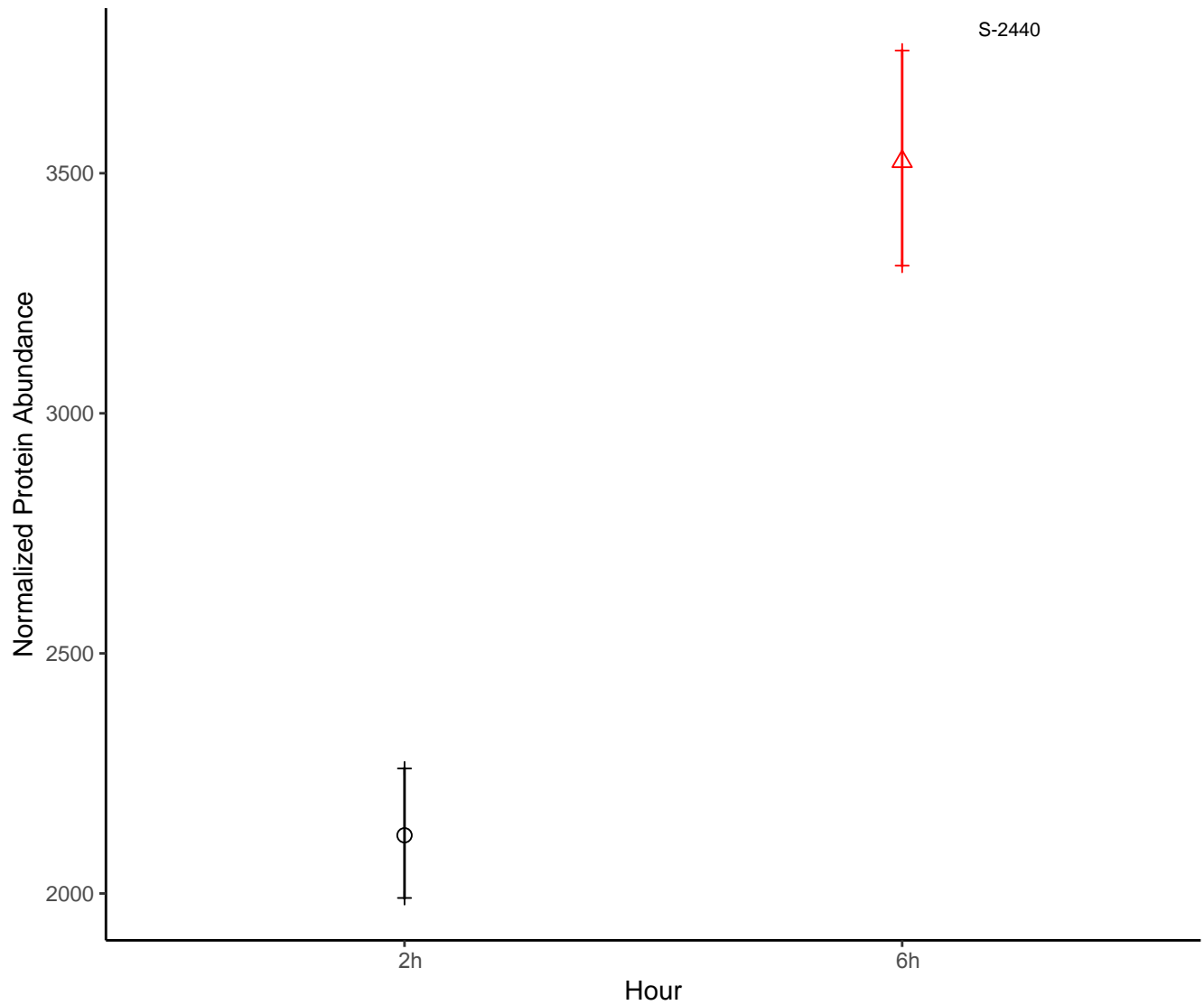
S-2439



⊕ 2h

△ 6h

# TRMHL\_STAAM

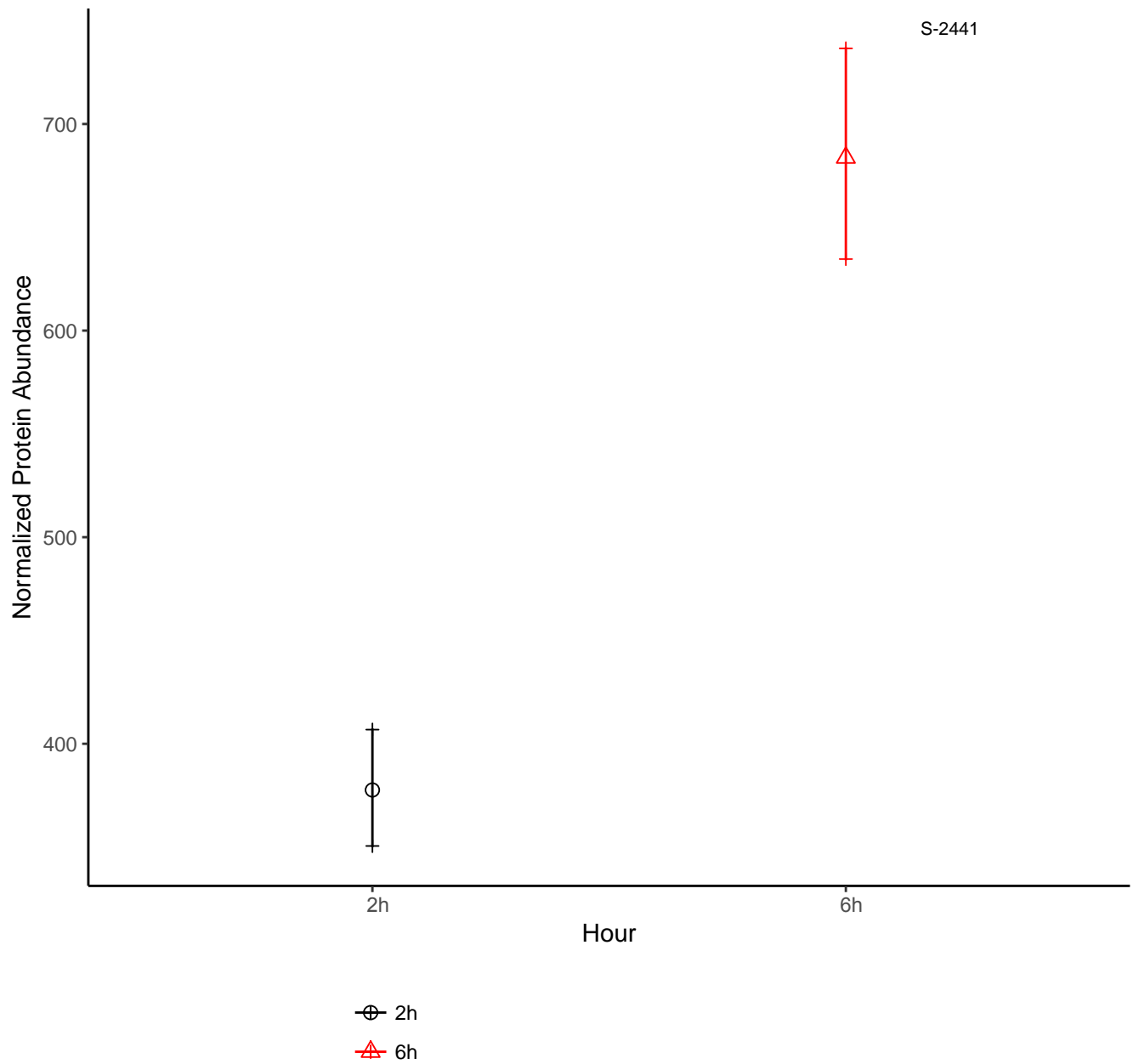


⊕ 2h

△ 6h

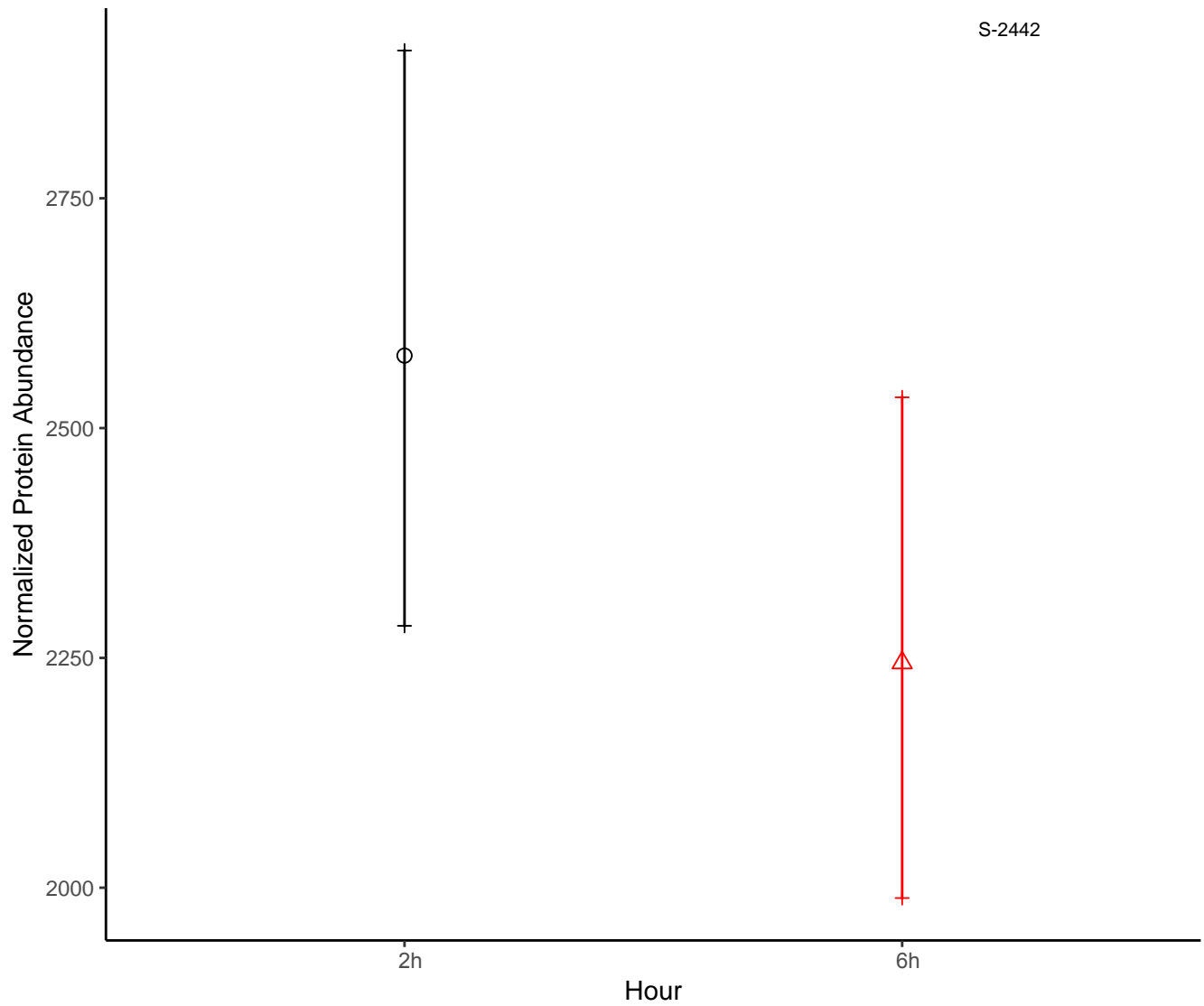


# TRPA\_STAAM



# TRPF\_STAAM

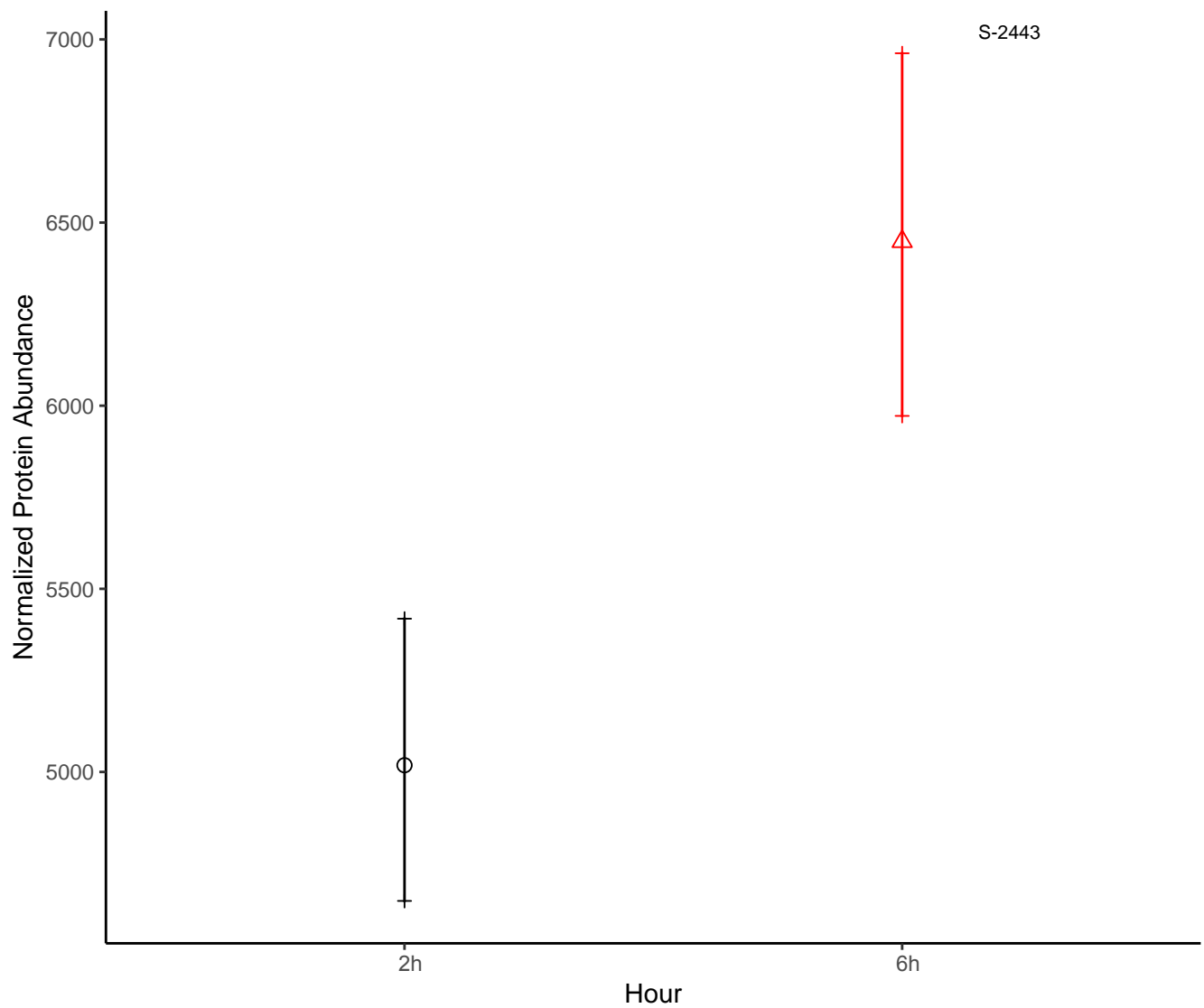
S-2442



⊕ 2h

△ 6h

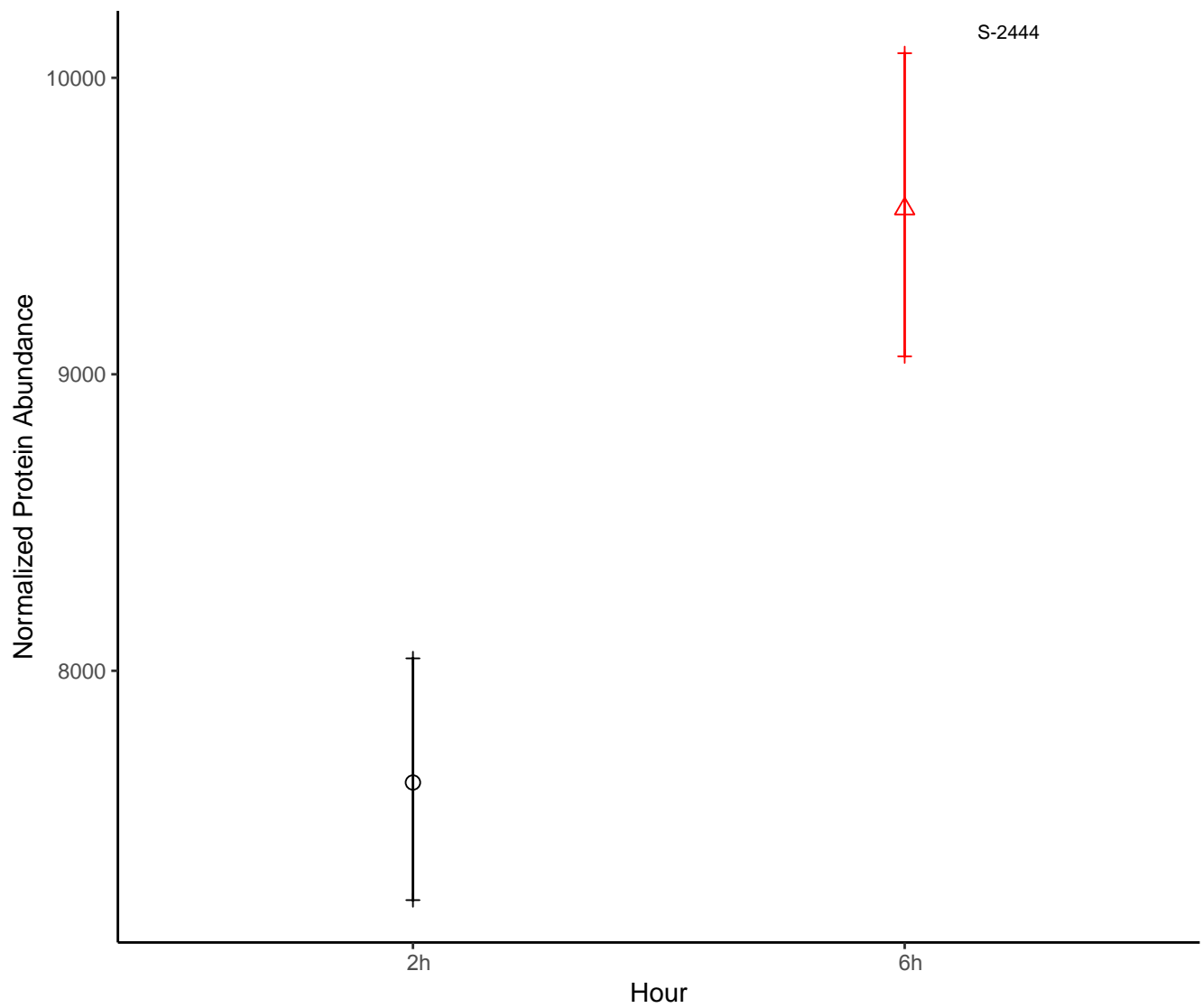
# TRUB\_STAAM



⊕ 2h

△ 6h

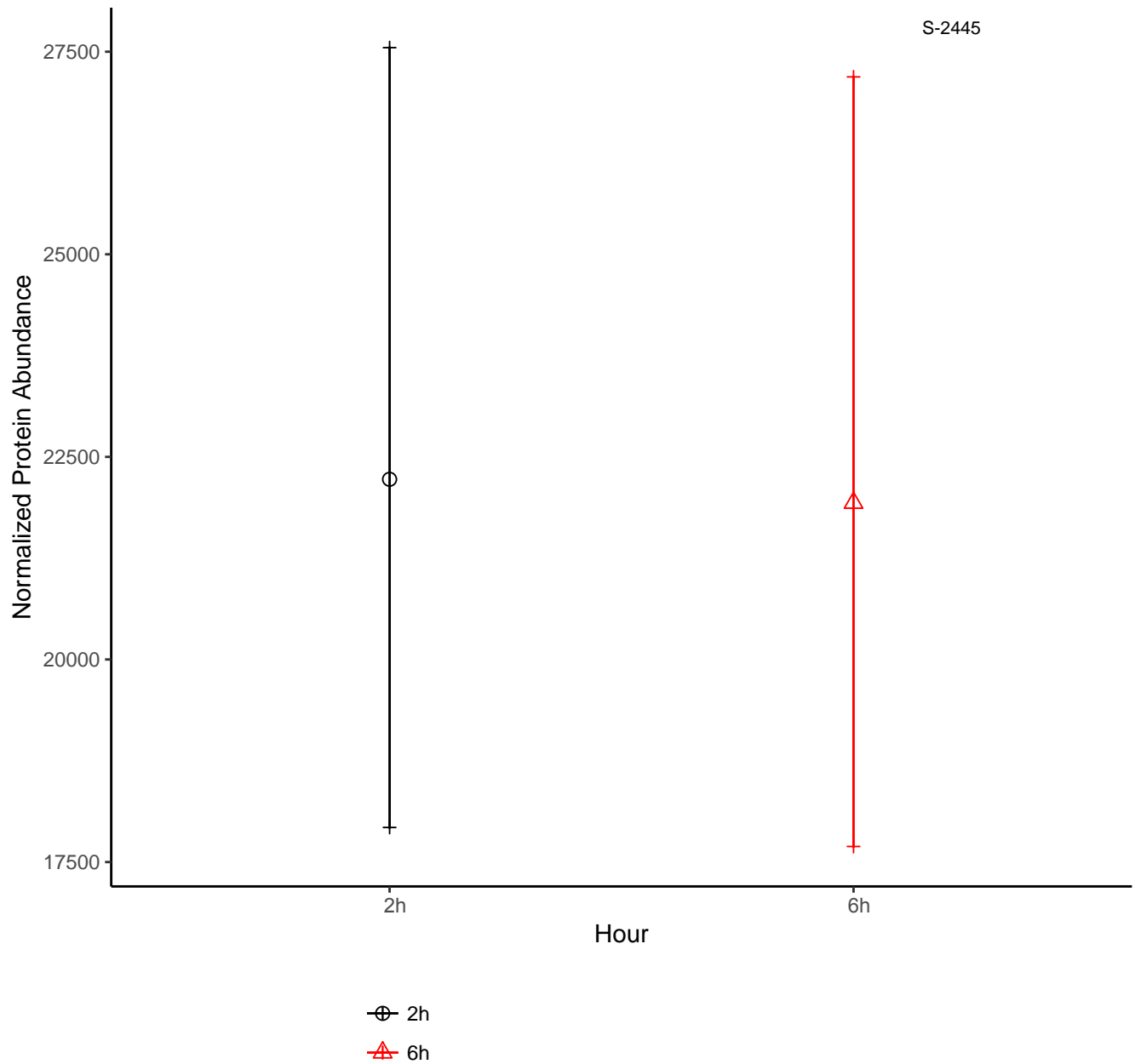
# TRXB\_STAAM



⊕ 2h

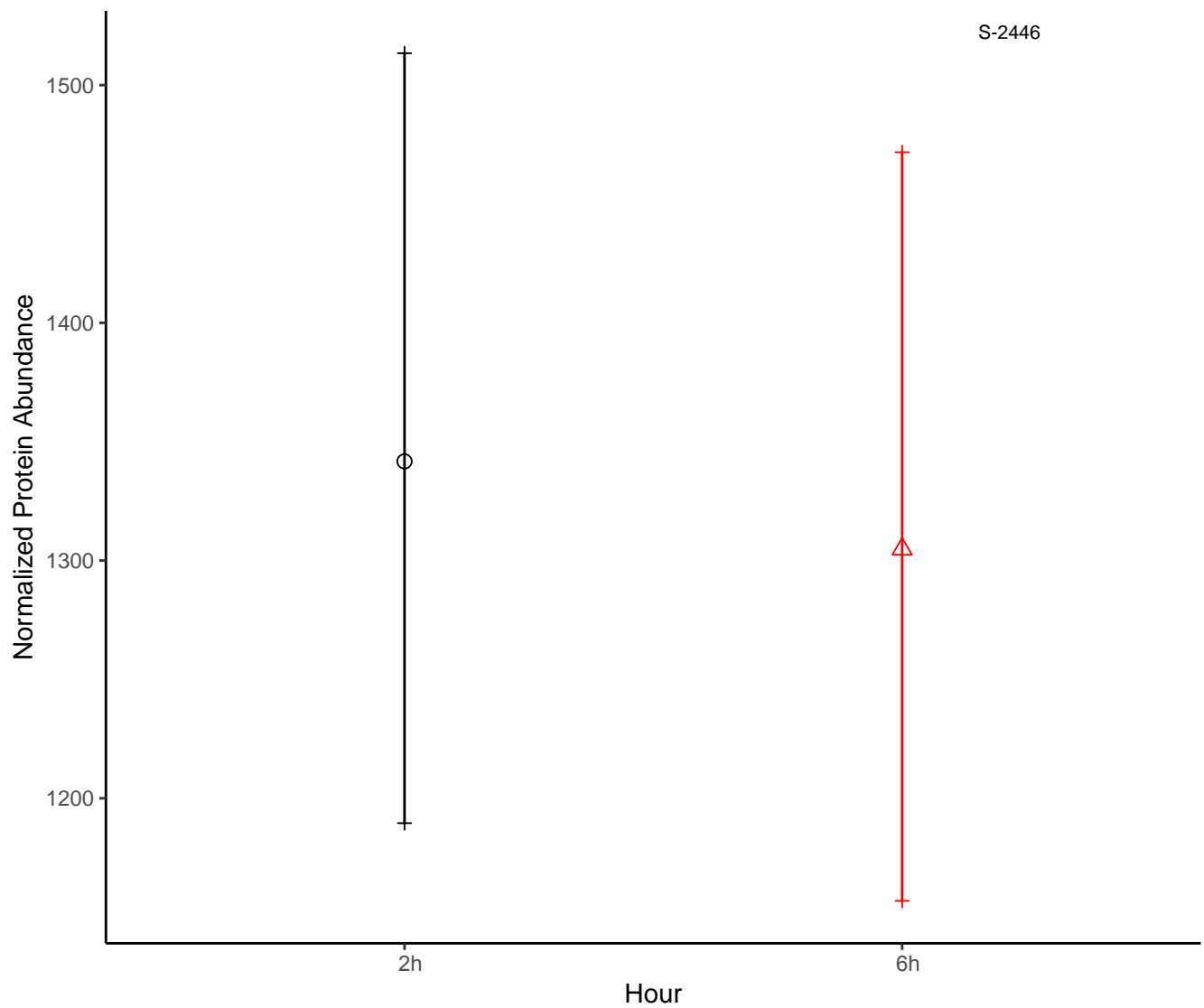
△ 6h

# TSAD\_STAAM



# TYRA\_STAAM

S-2446

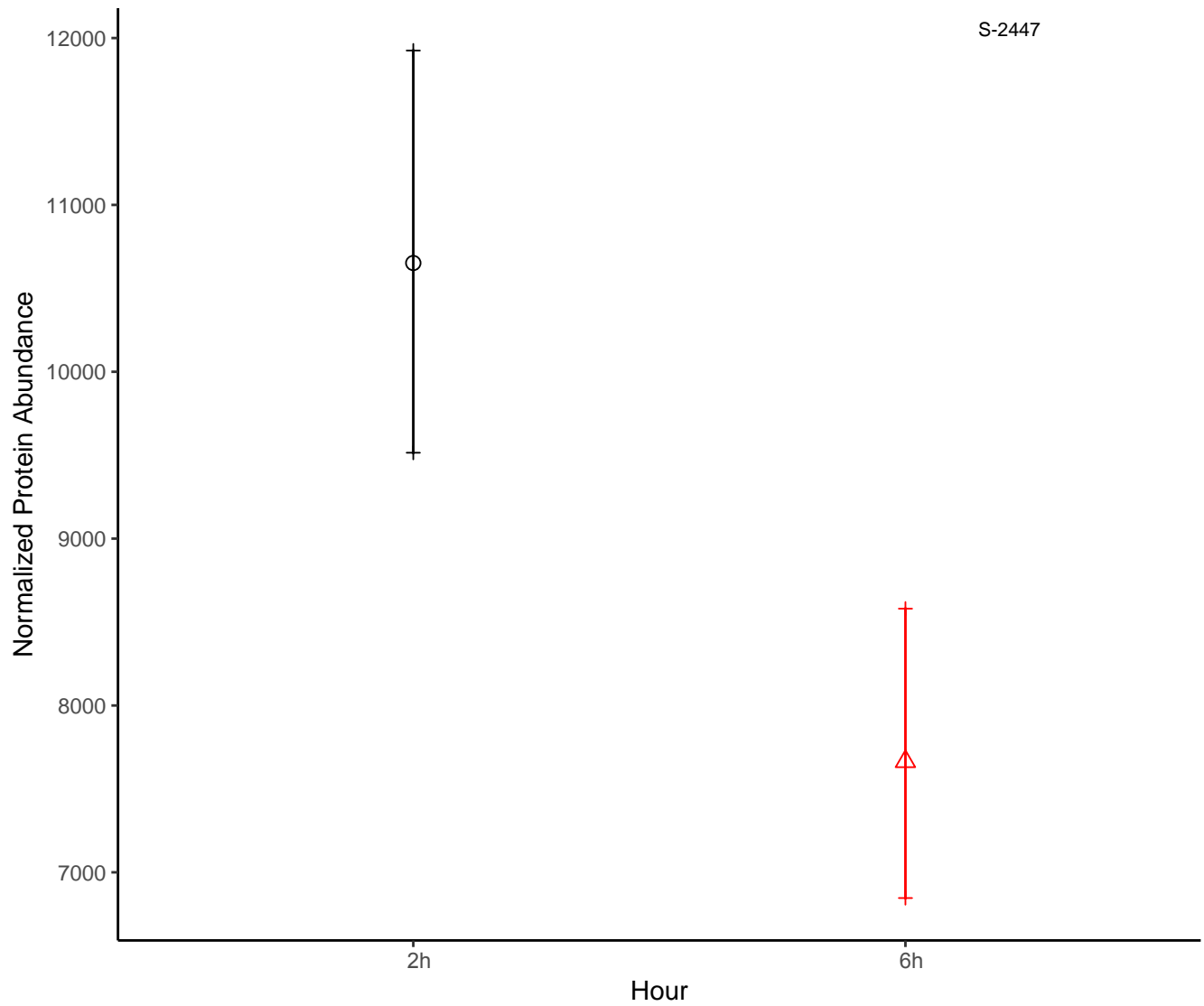


⊕ 2h

△ 6h

# TYSY\_STAAM

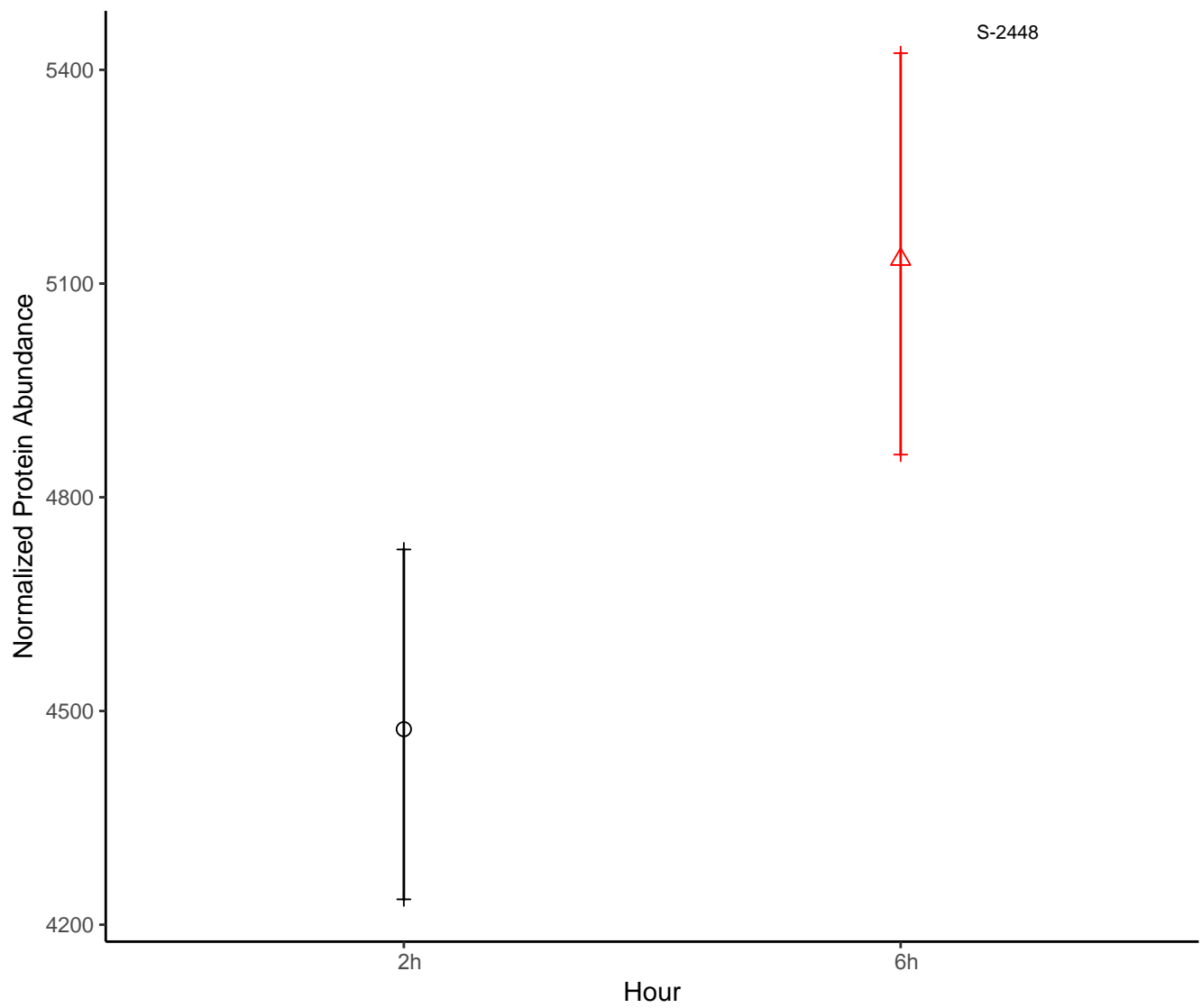
S-2447



⊕ 2h

△ 6h

# UNG\_STAAM

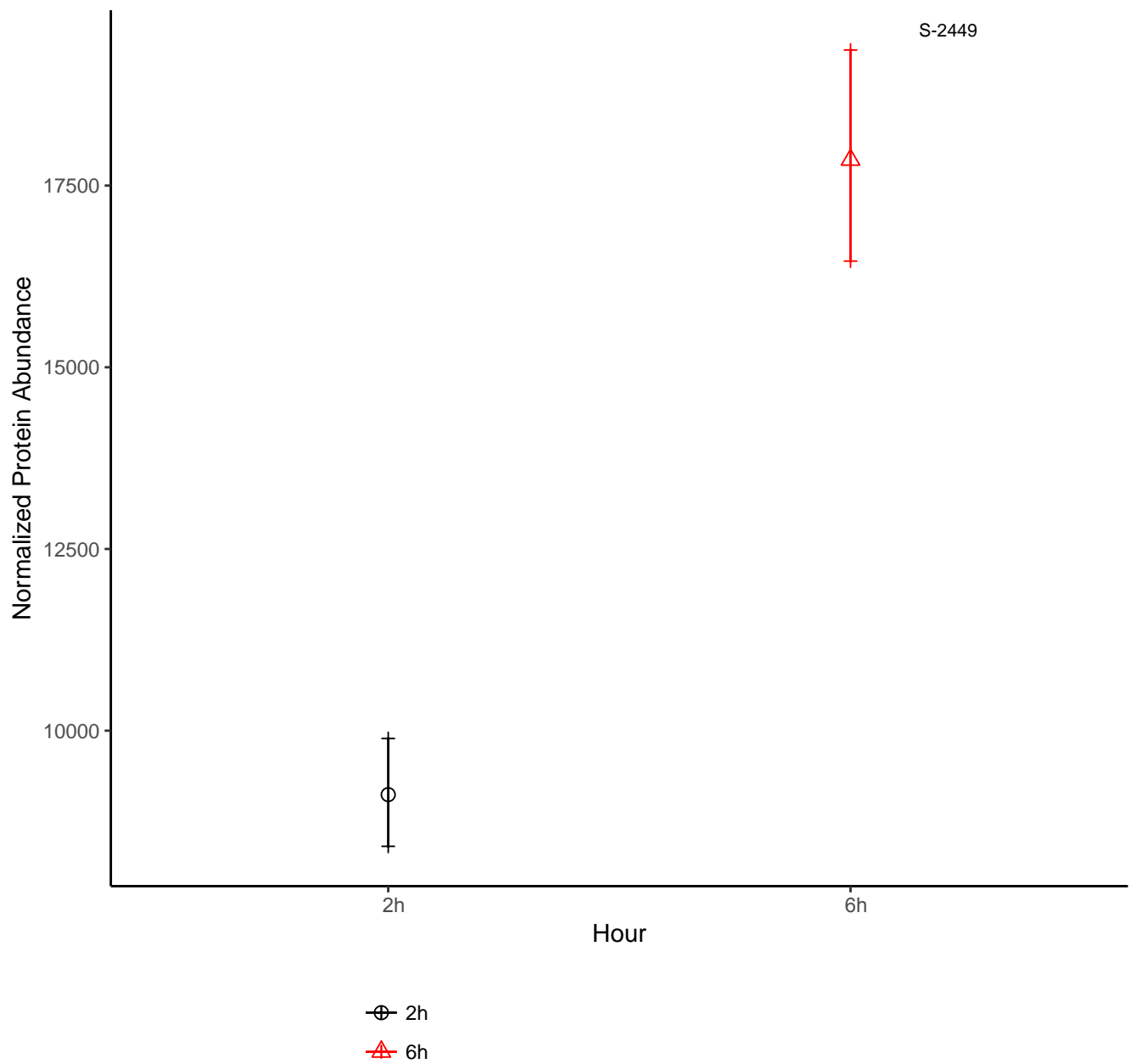


⊕ 2h

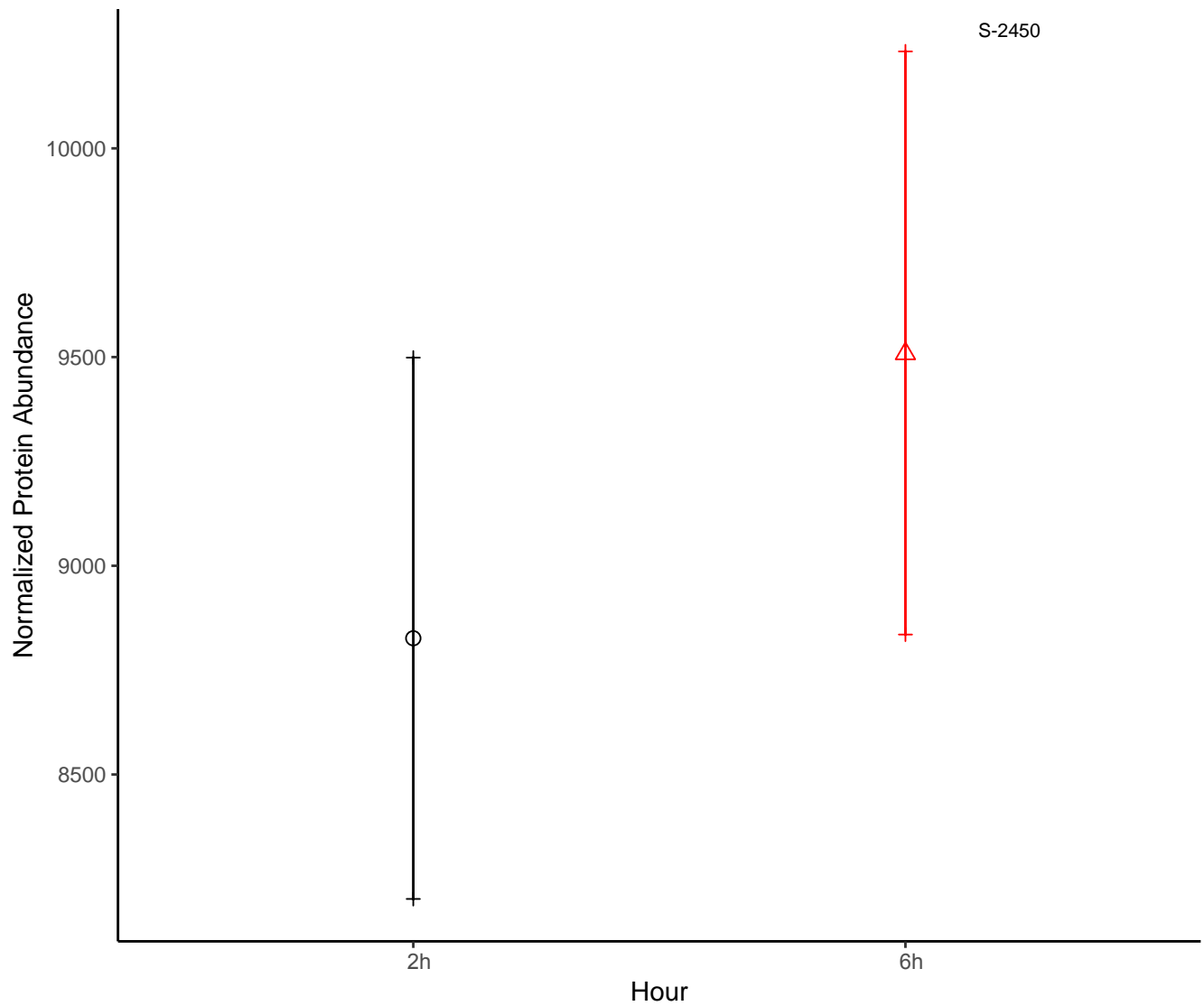
△ 6h



# UP355\_STAAM



# UPP\_STAAM

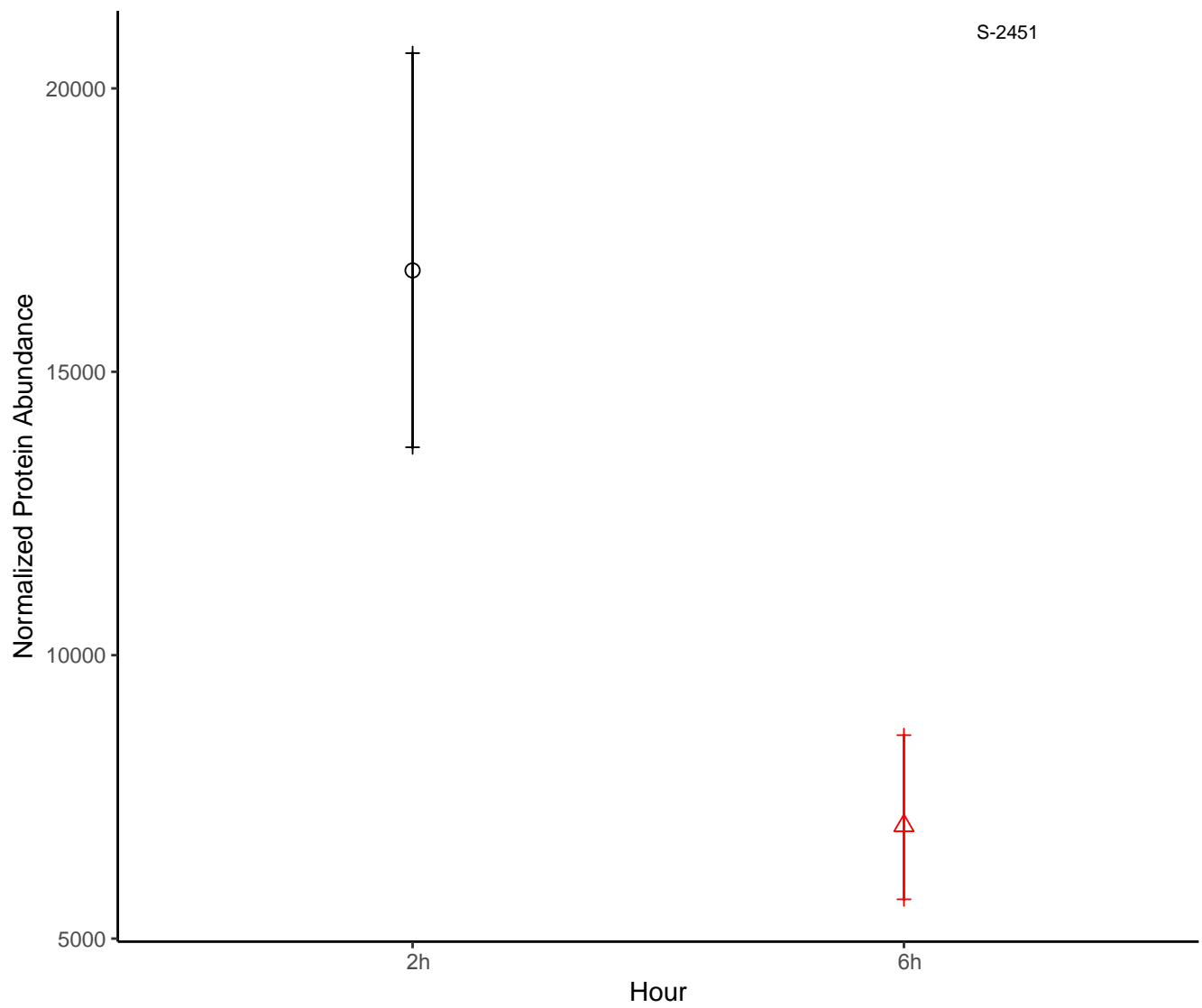


⊕ 2h

△ 6h

# UREE\_STAAM

S-2451

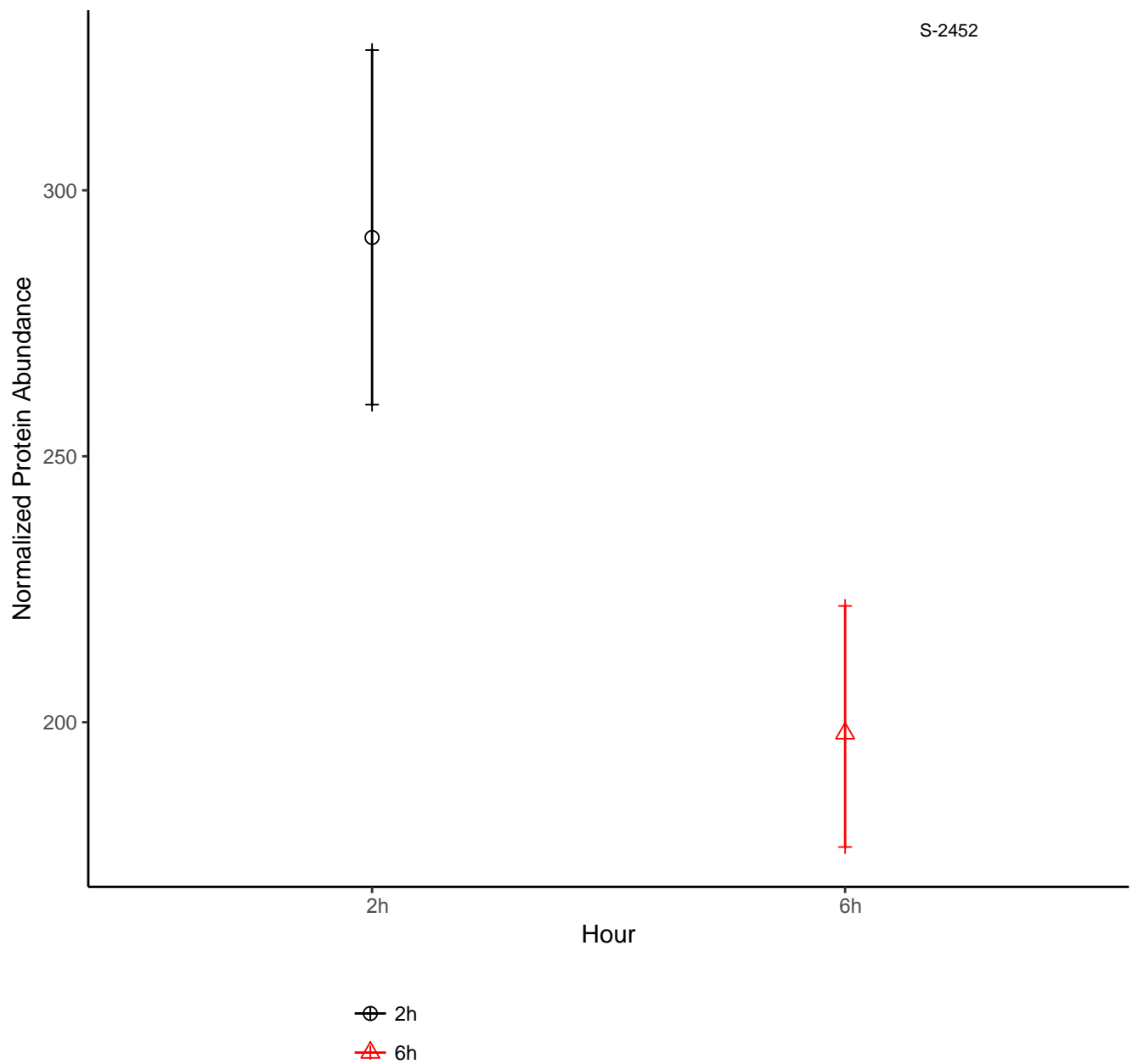


⊕ 2h

△ 6h

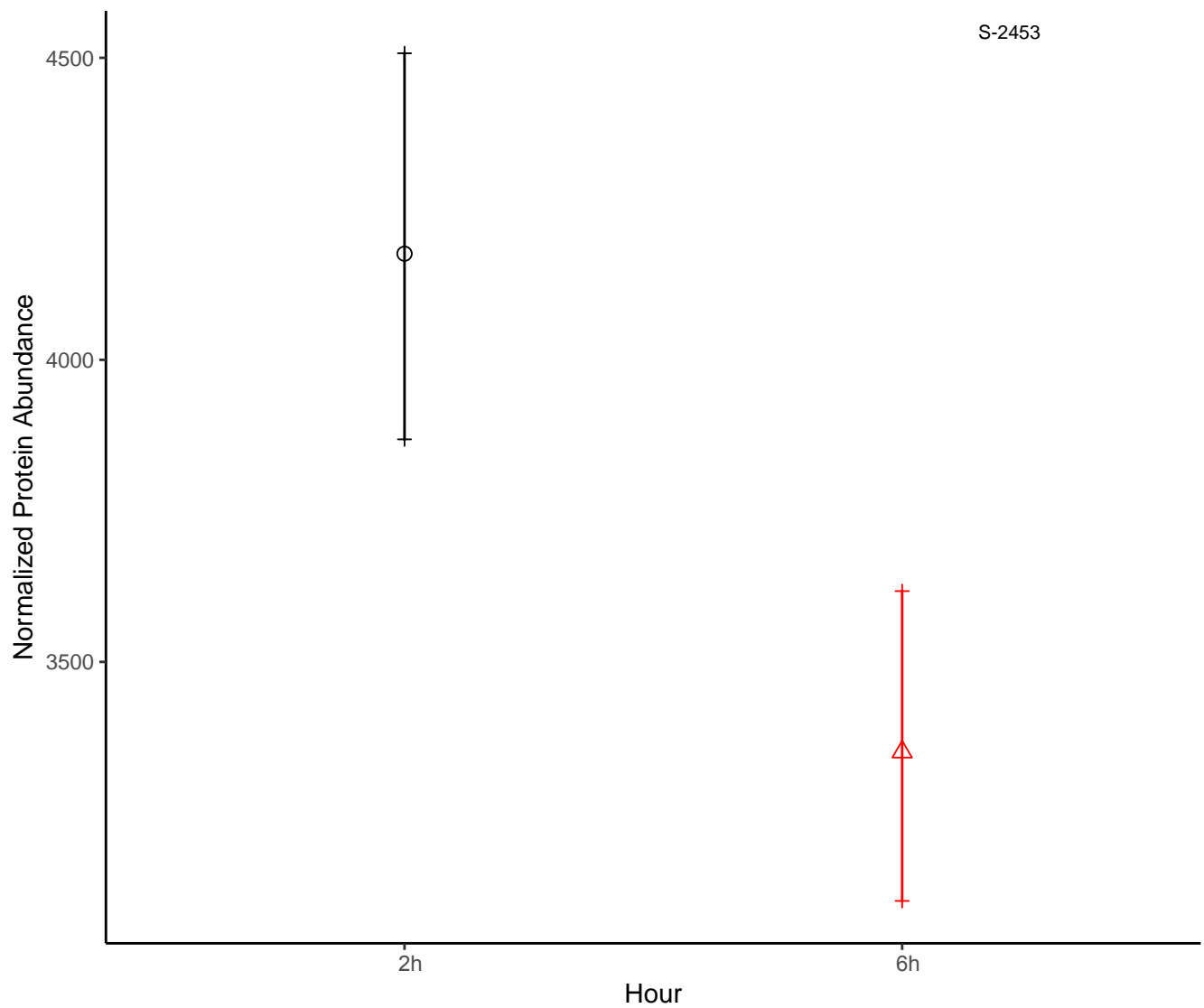
# UREG\_STAAM

S-2452



# URK\_STAAM

S-2453

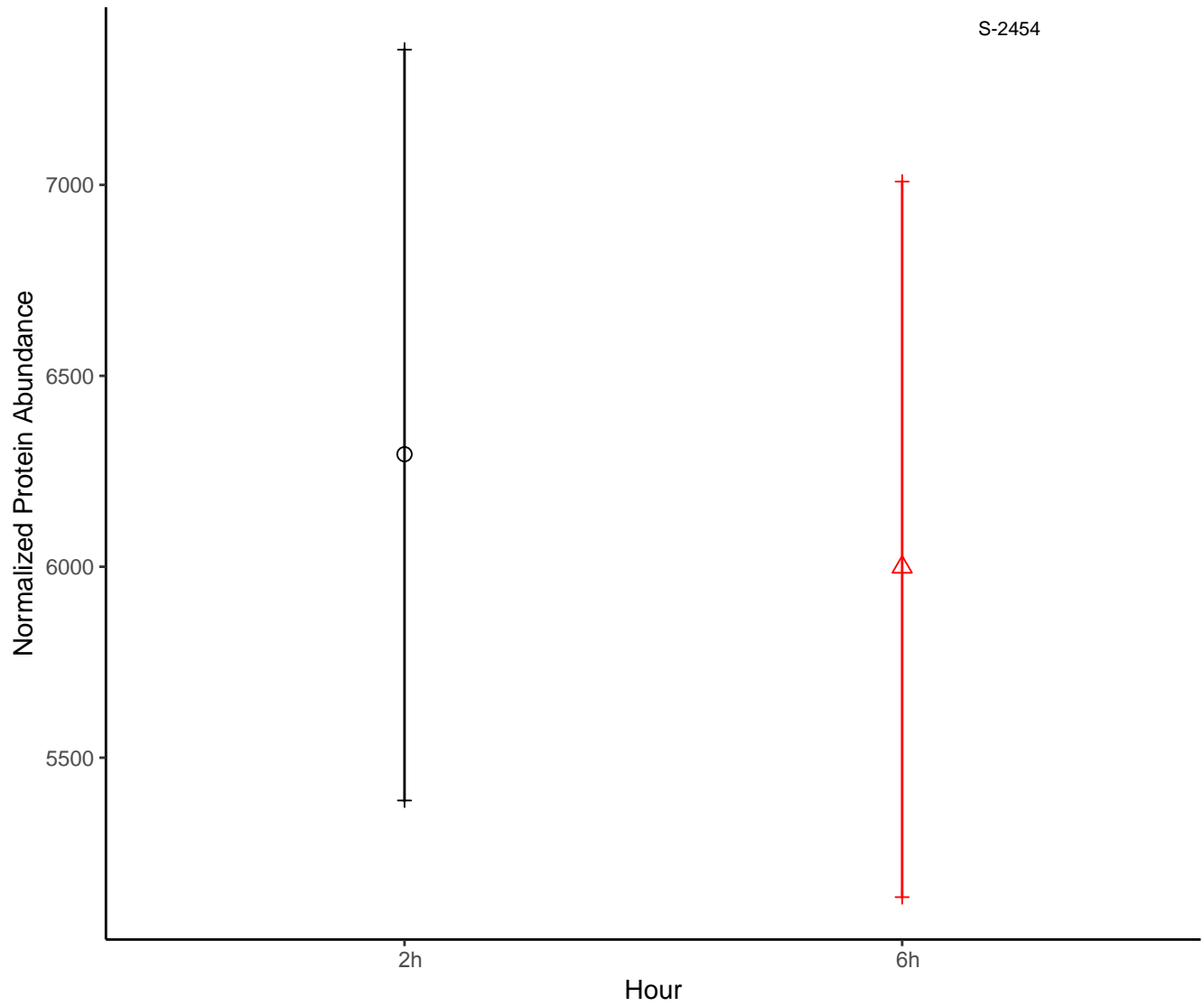


⊕ 2h

△ 6h

# URTF\_STAAM

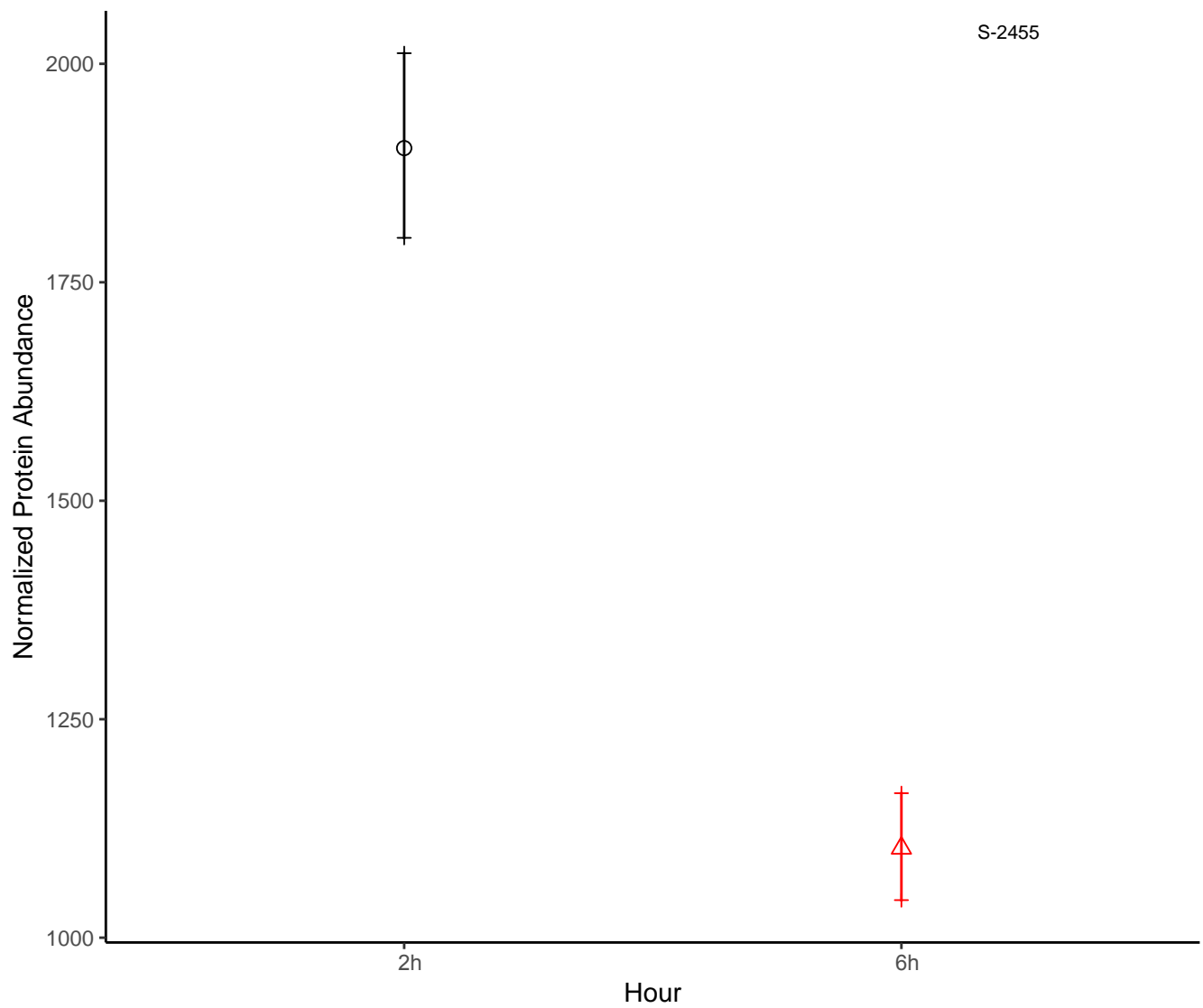
S-2454



⊕ 2h

△ 6h

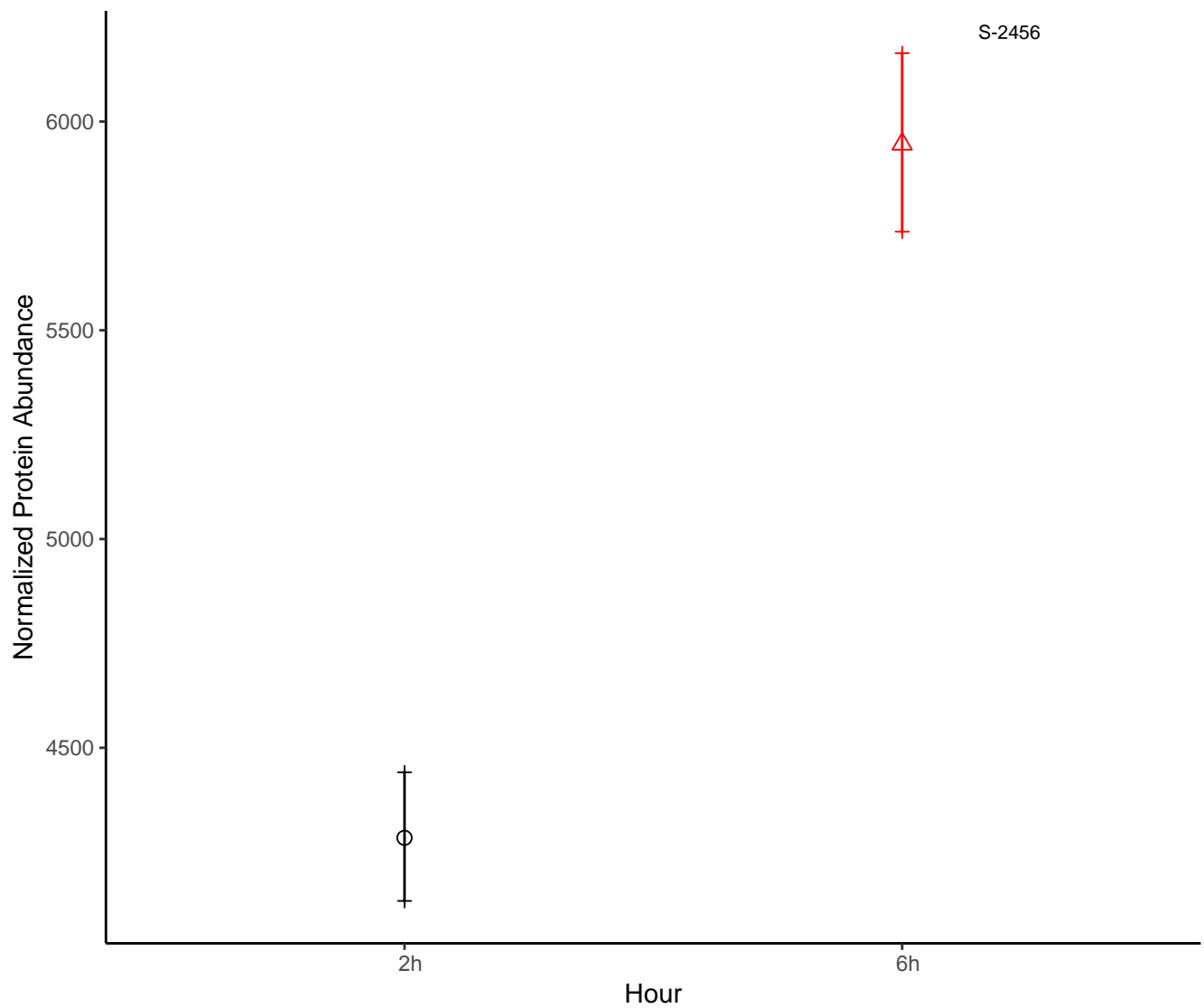
# UVRA\_STAAM



⊕ 2h

△ 6h

# VRAC\_STAAM



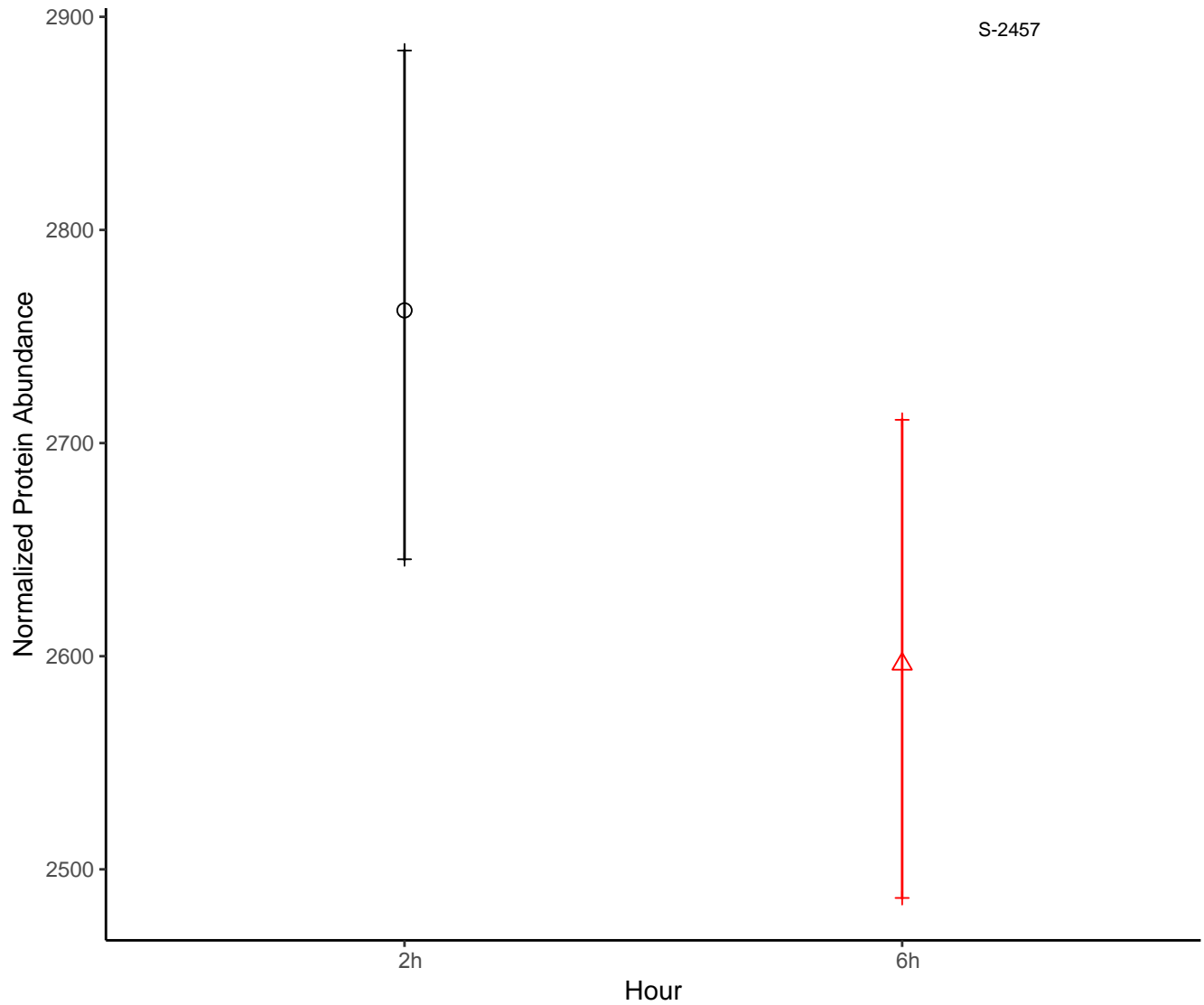
⊕ 2h

△ 6h



# VRAR\_STAAM

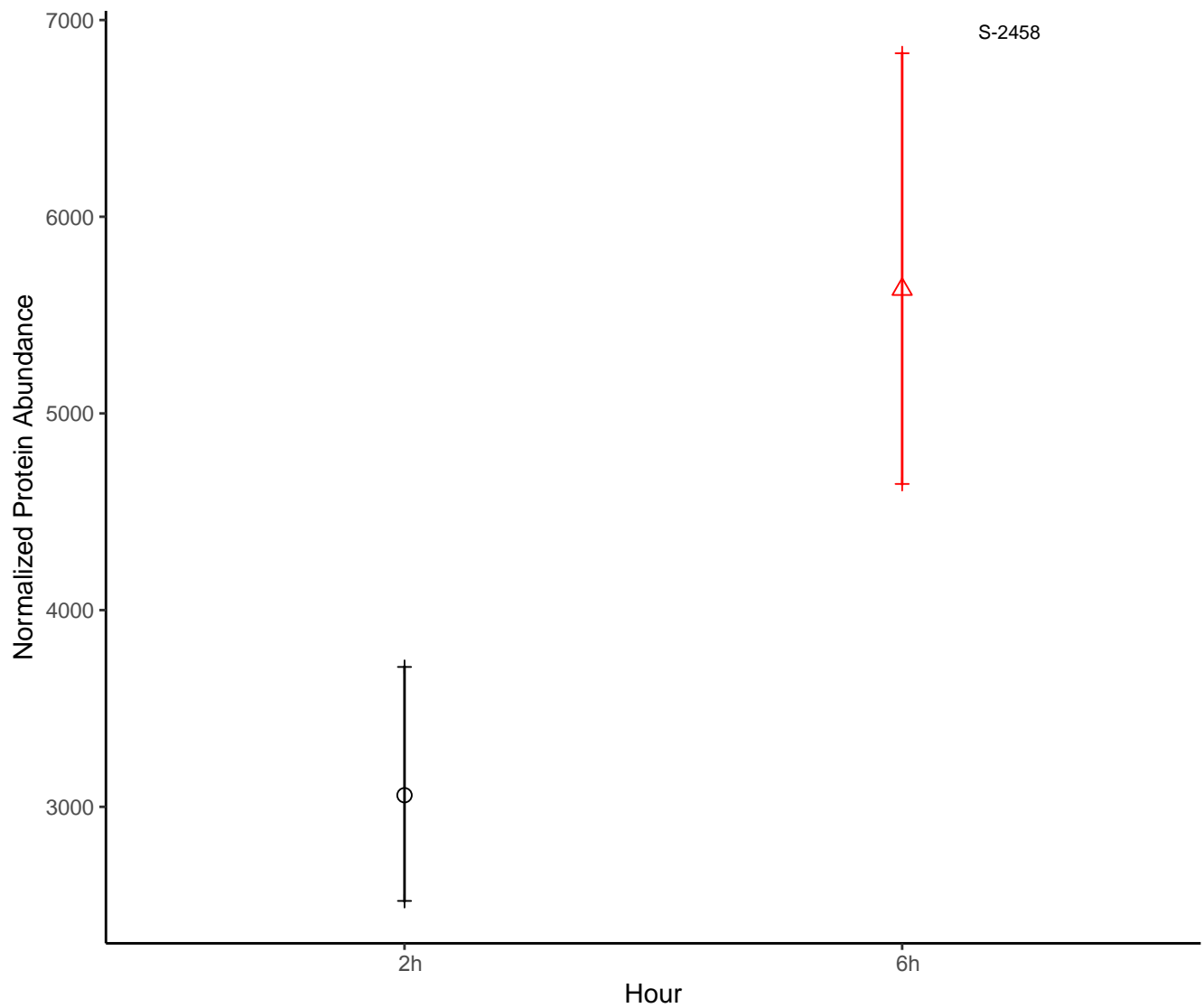
S-2457



⊕ 2h

△ 6h

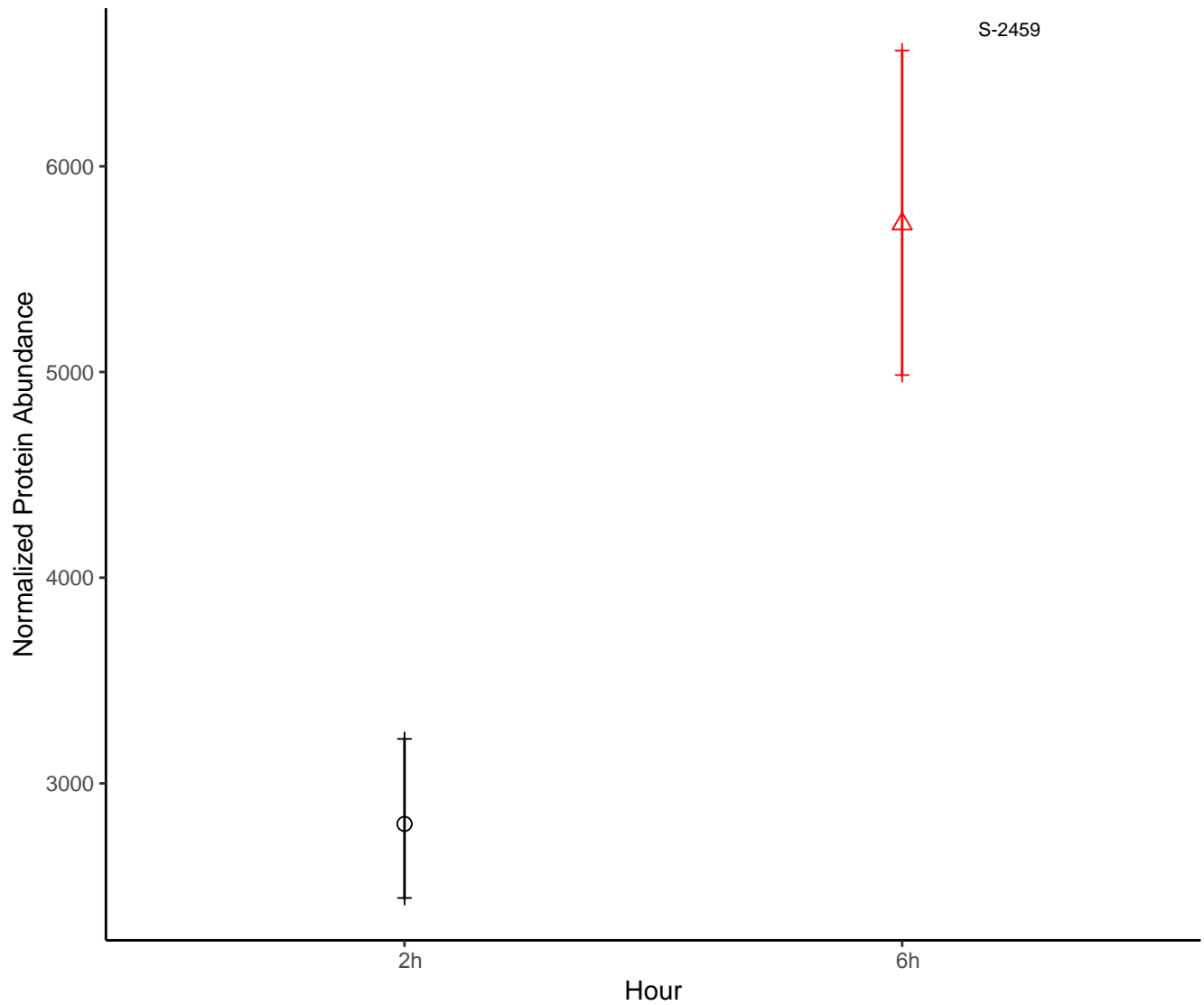
# WALK\_STAAM



⊕ 2h

△ 6h

# WALR\_STAAM

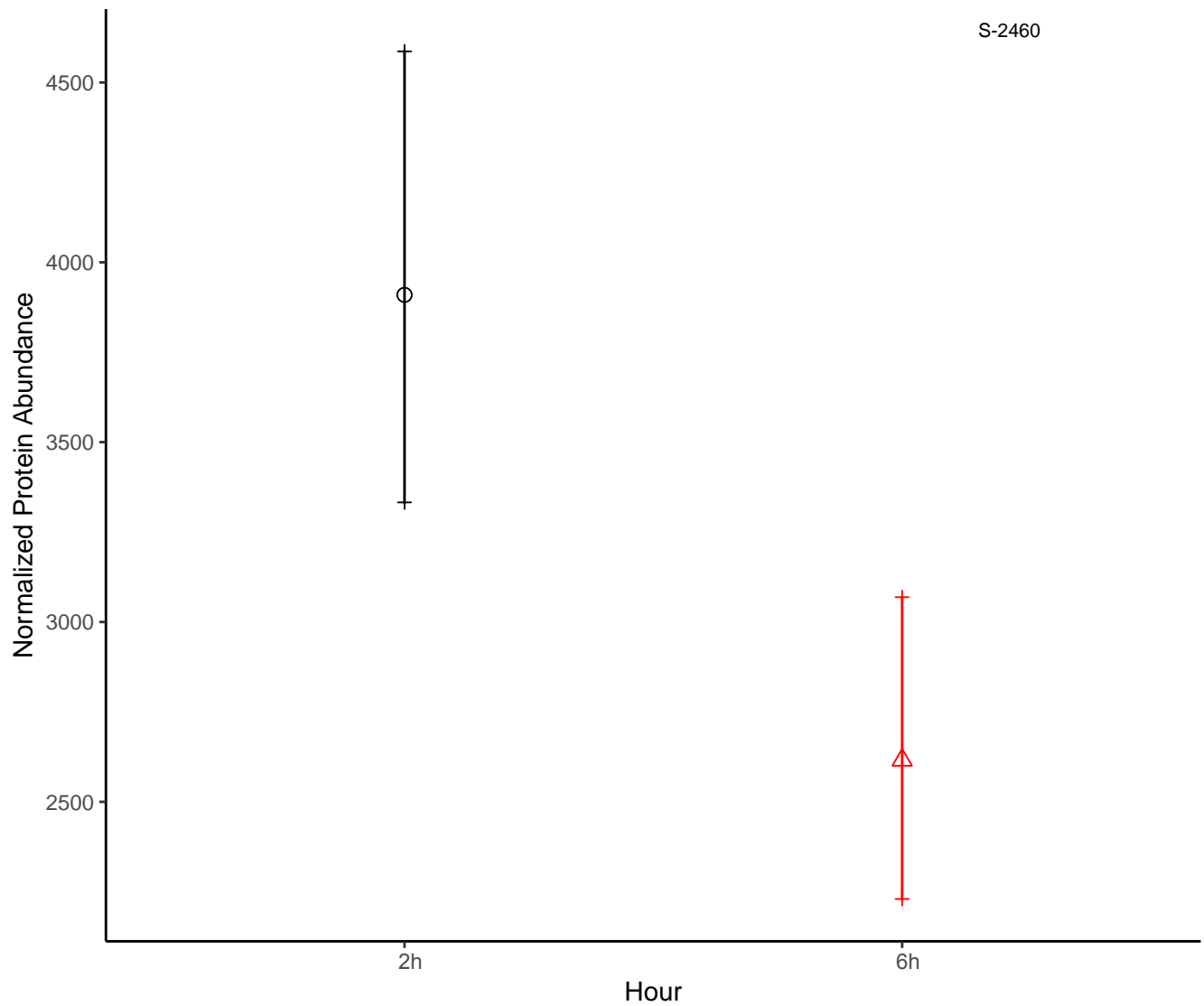


⊕ 2h

△ 6h

# XERD\_STAAM

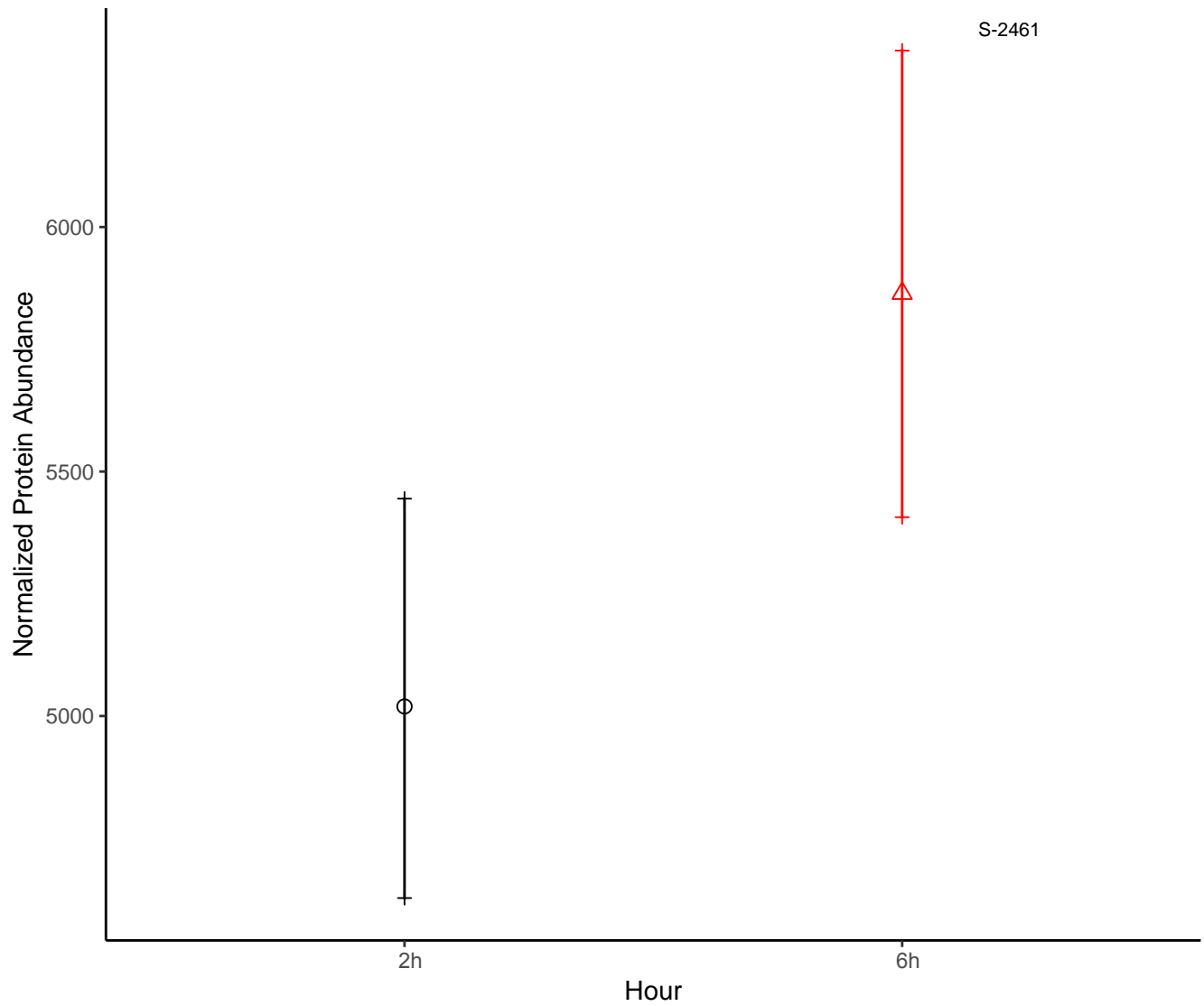
S-2460



⊕ 2h

△ 6h

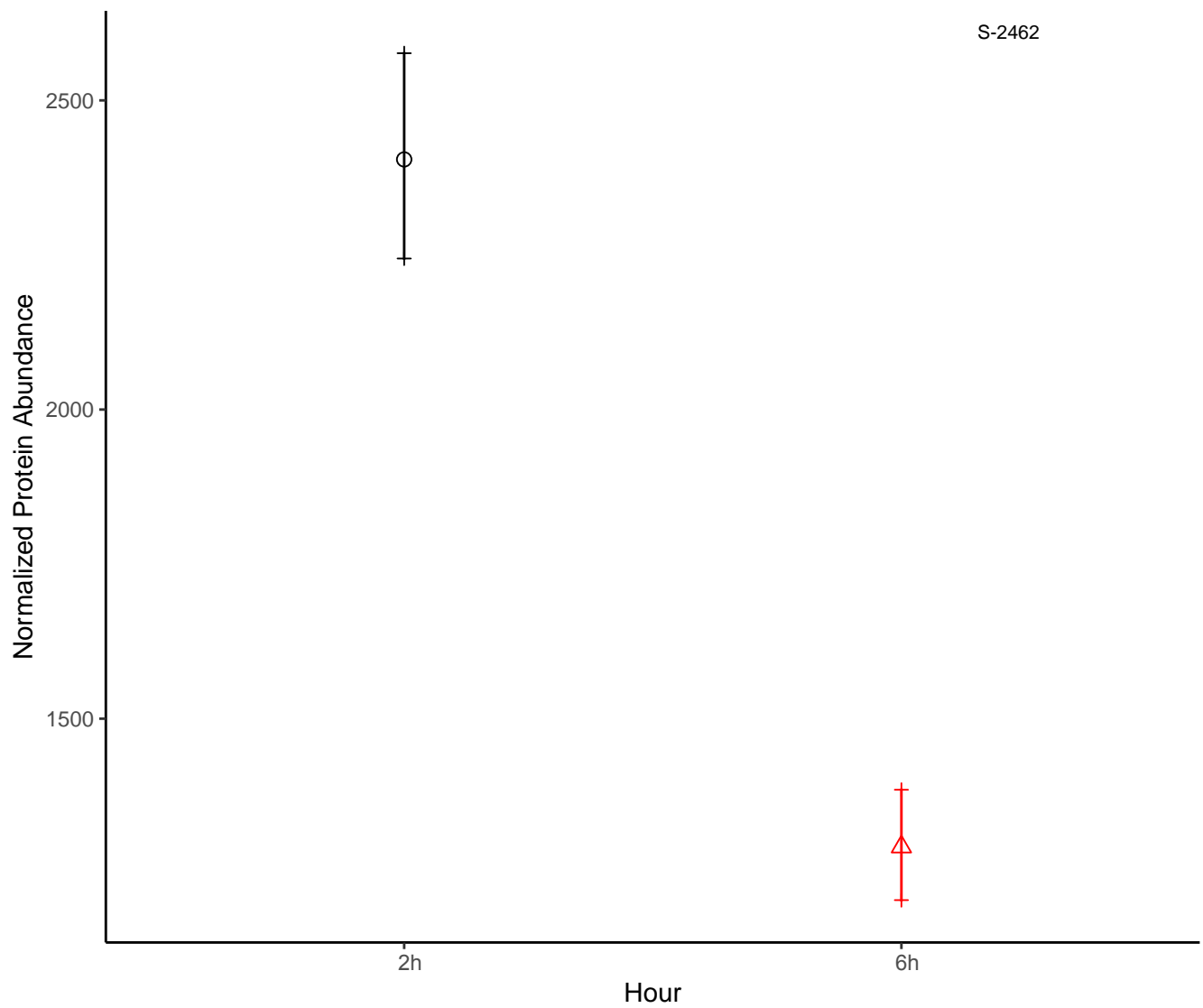
# XPT\_STAAM



⊕ 2h

△ 6h

# Y098\_STAAM

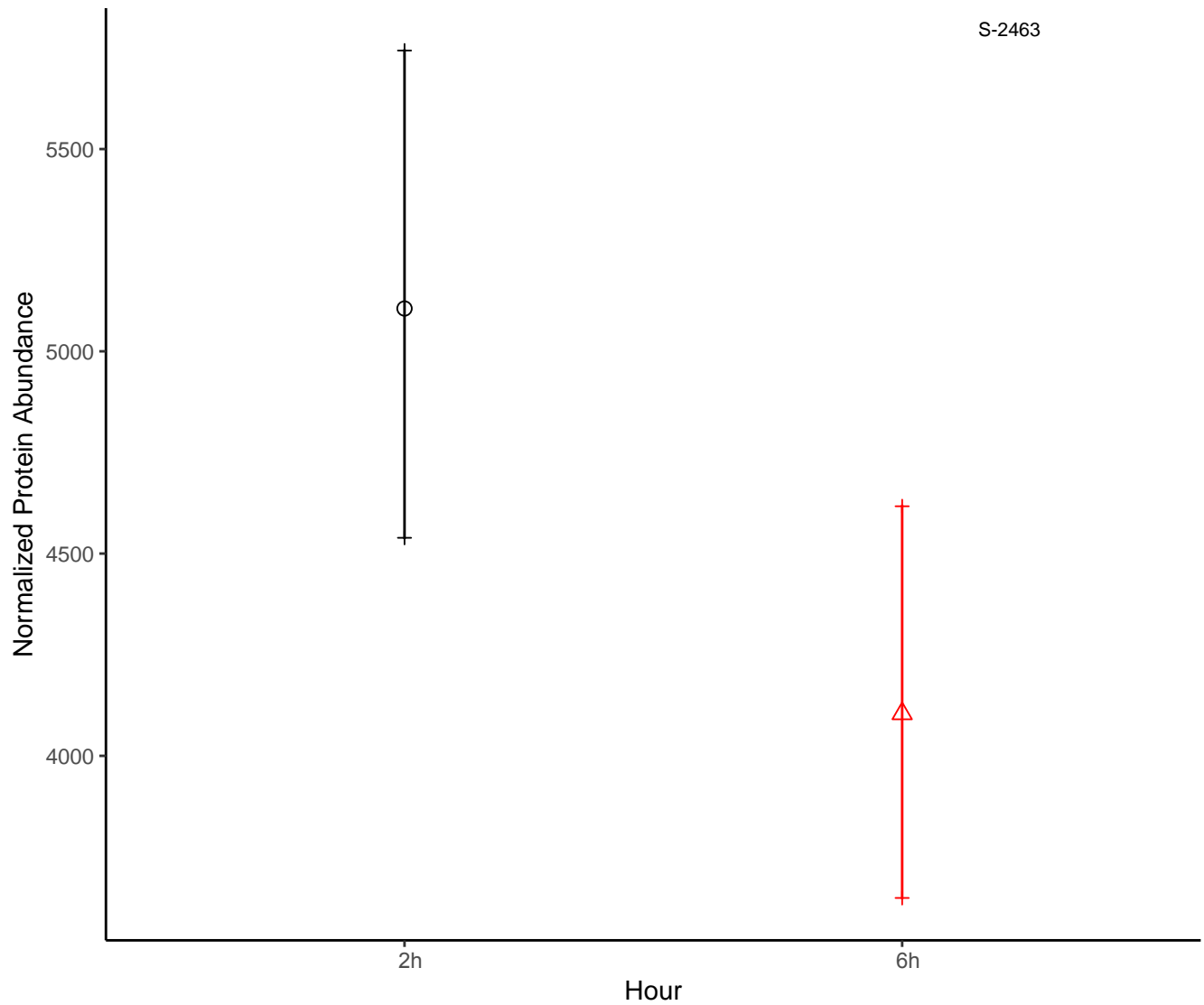


⊕ 2h

△ 6h

# Y099\_STAAM

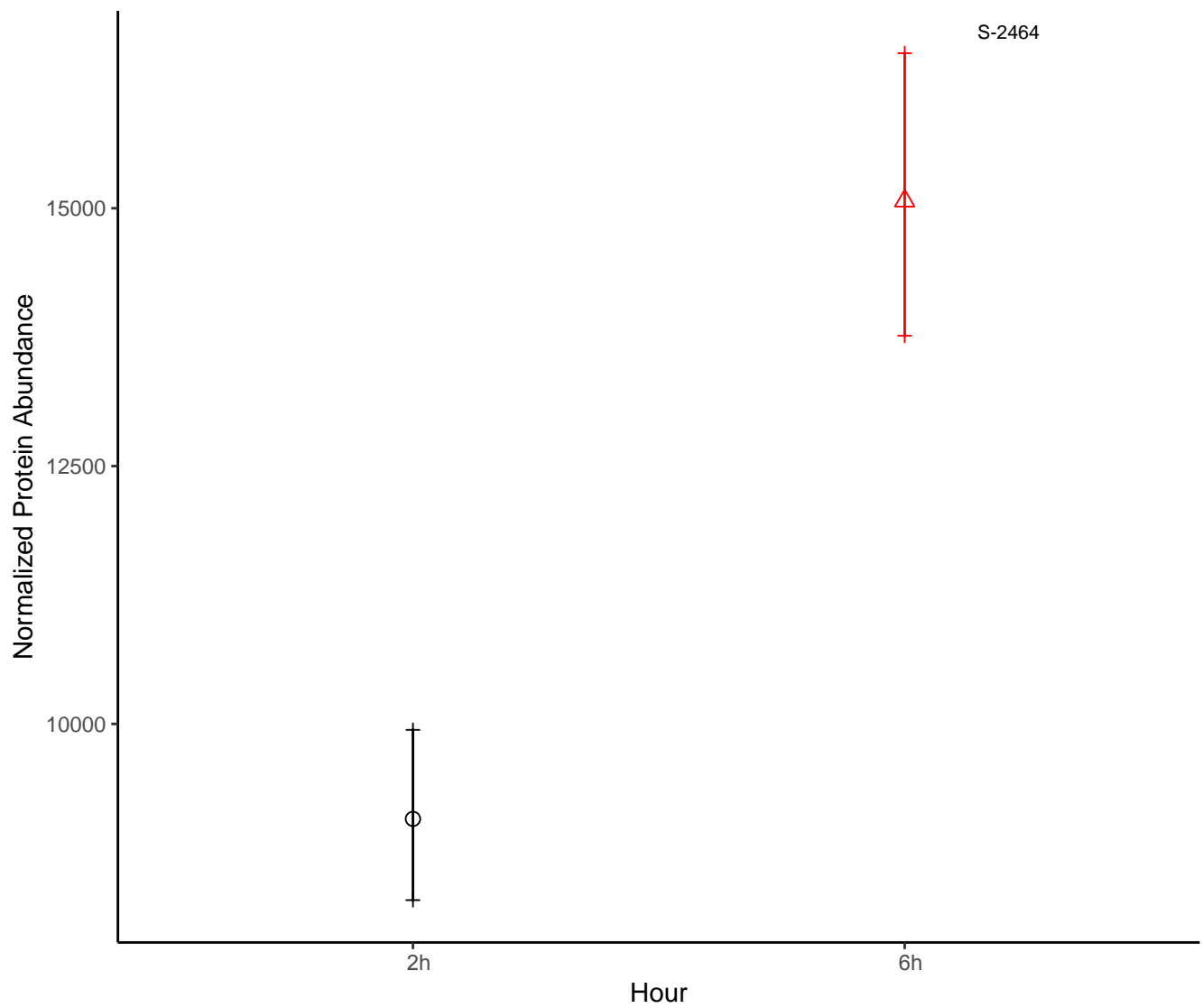
S-2463



⊕ 2h

△ 6h

# Y1015\_STAAM



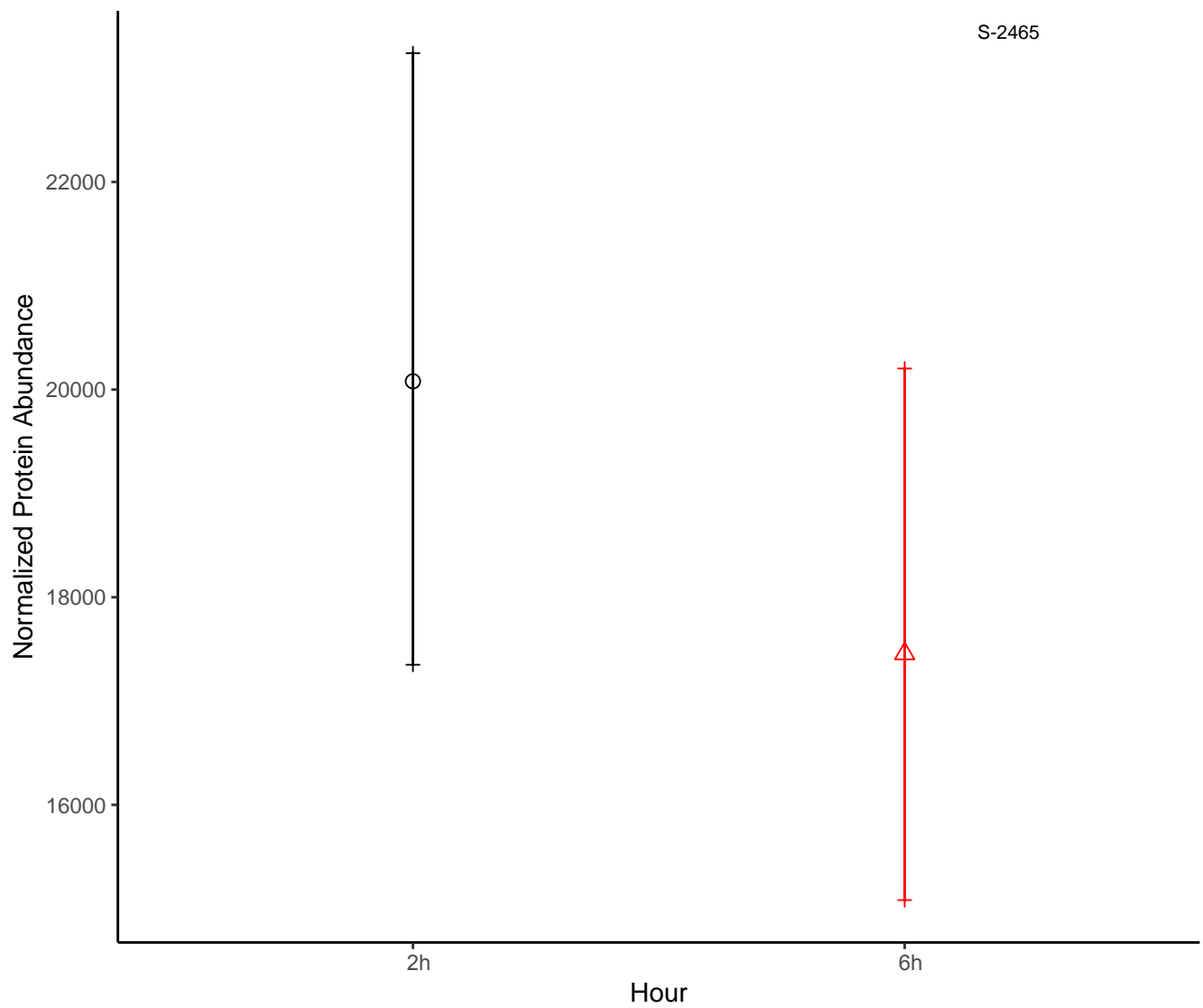
⊕ 2h

△ 6h



# Y1090\_STAAM

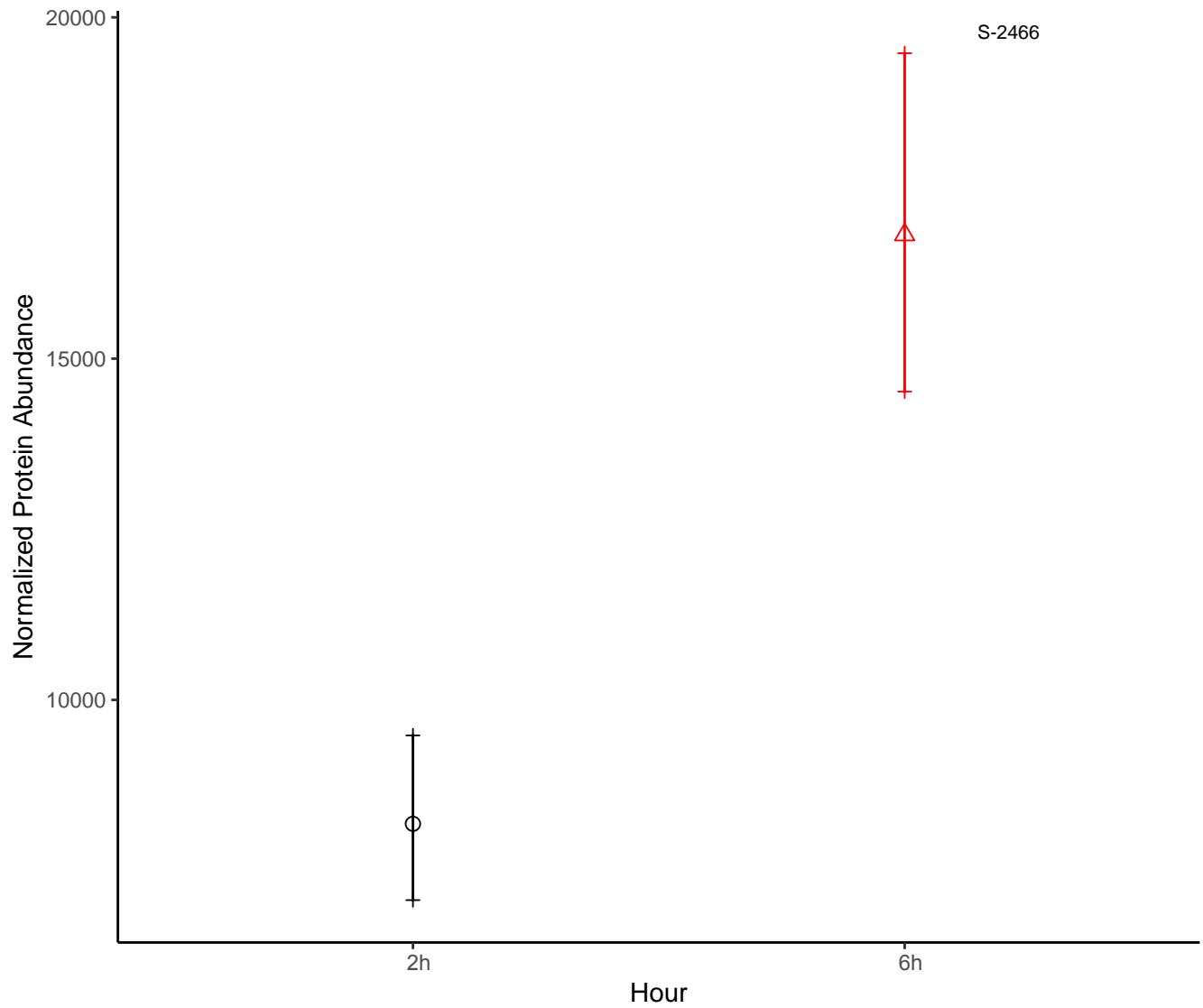
S-2465



⊕ 2h

△ 6h

# Y1176\_STAAM

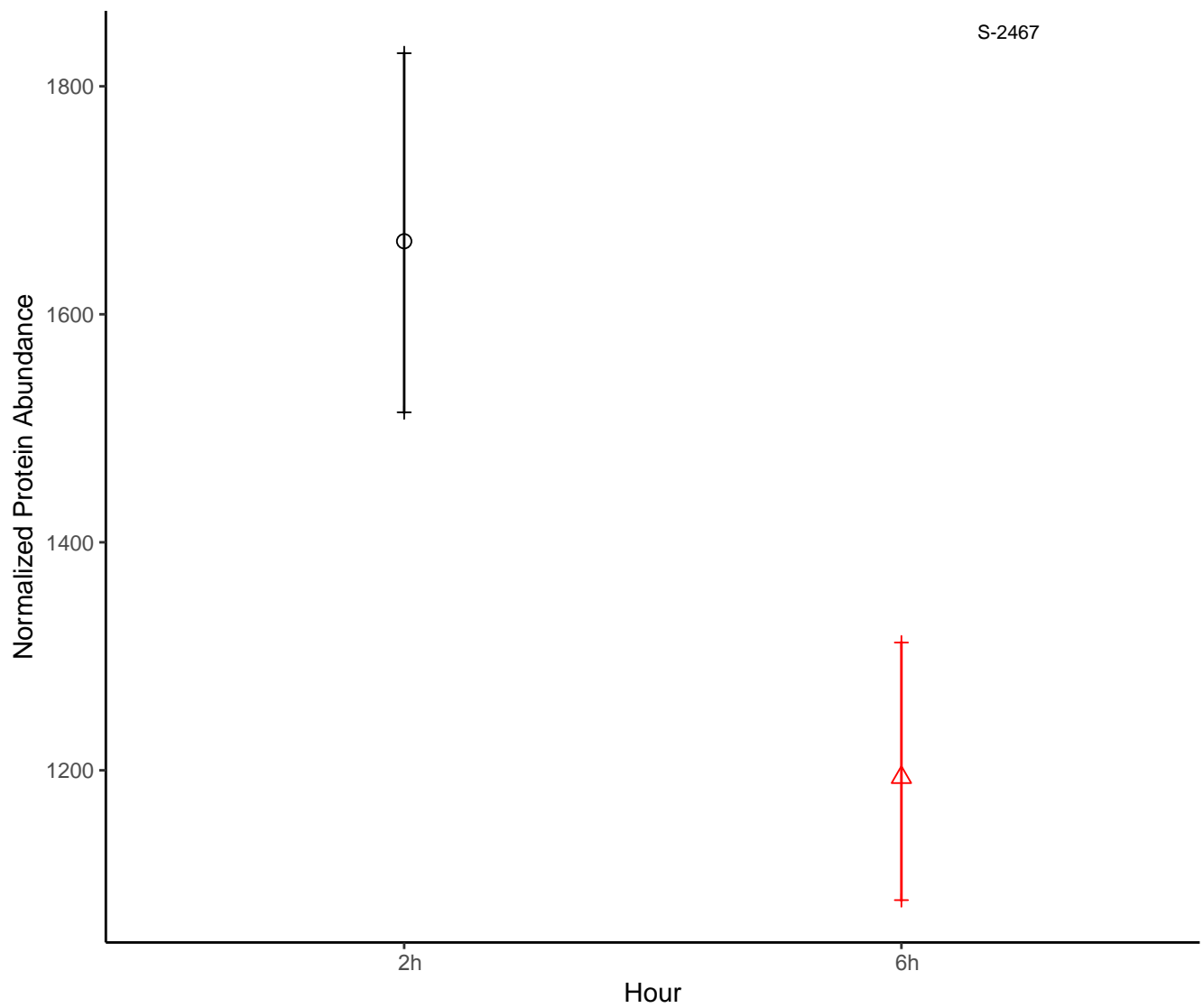


⊕ 2h

△ 6h

# Y1177\_STAAM

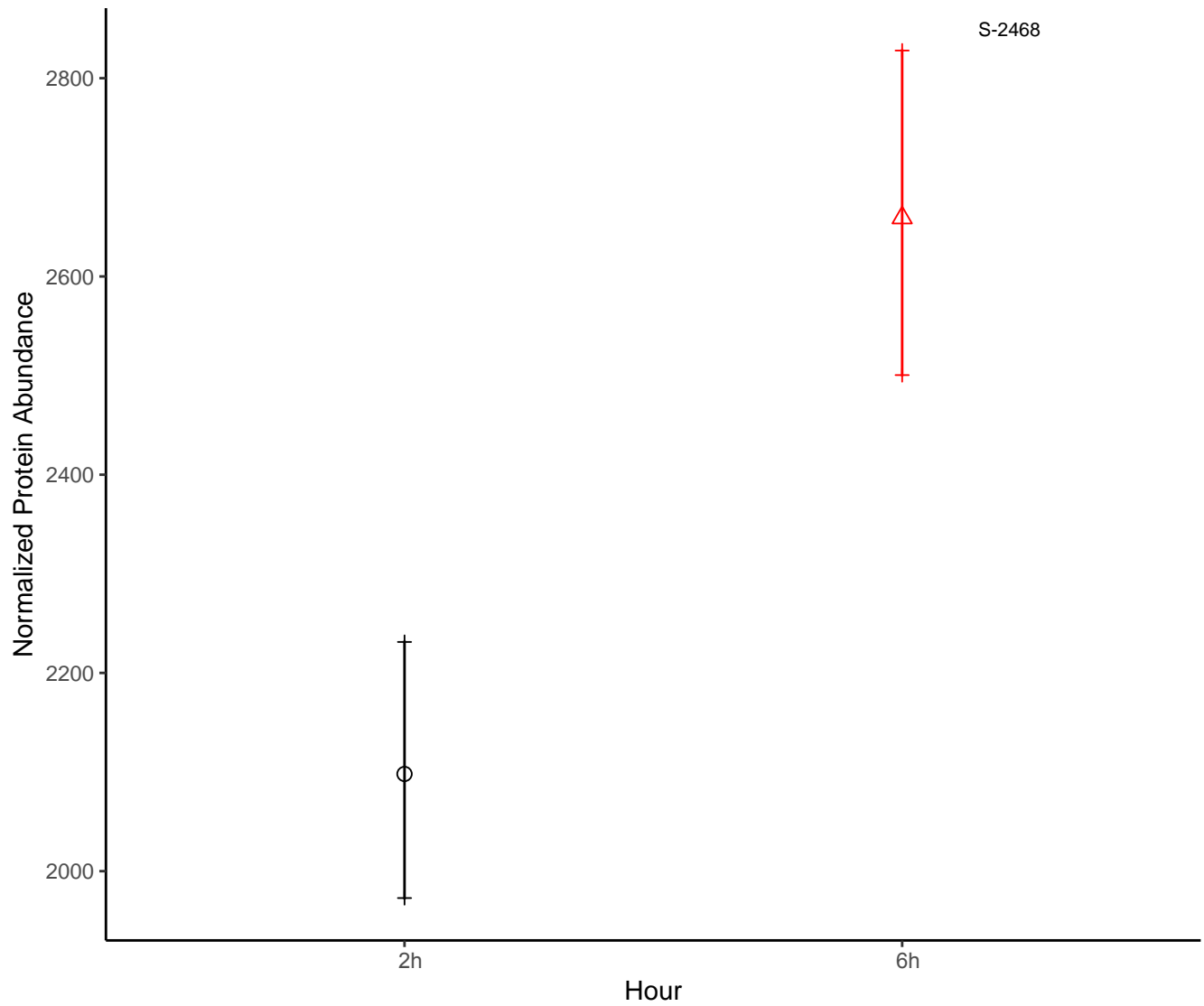
S-2467



⊕ 2h

△ 6h

# Y1187\_STAAM

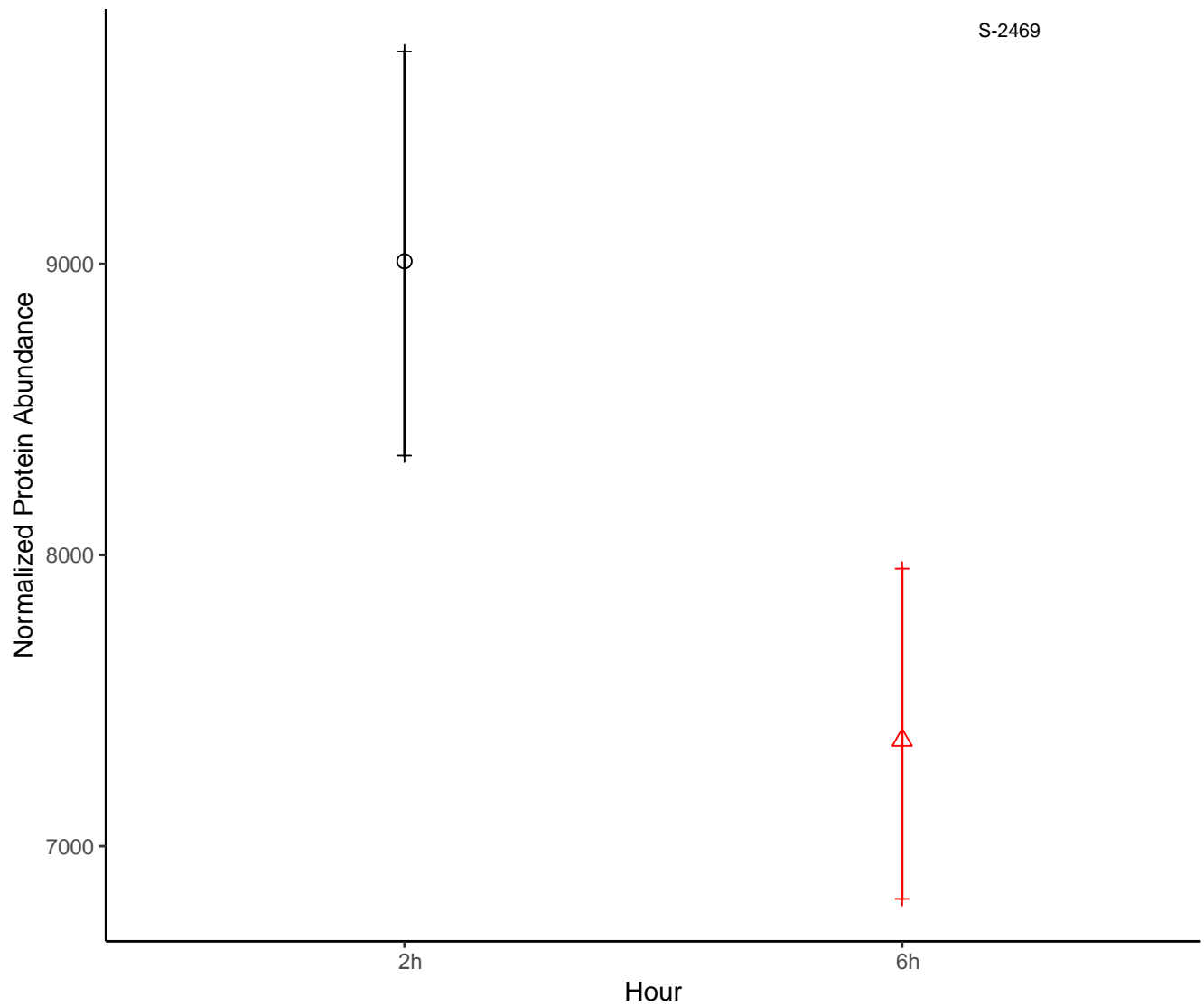


⊕ 2h

△ 6h

# Y1226\_STAAM

S-2469

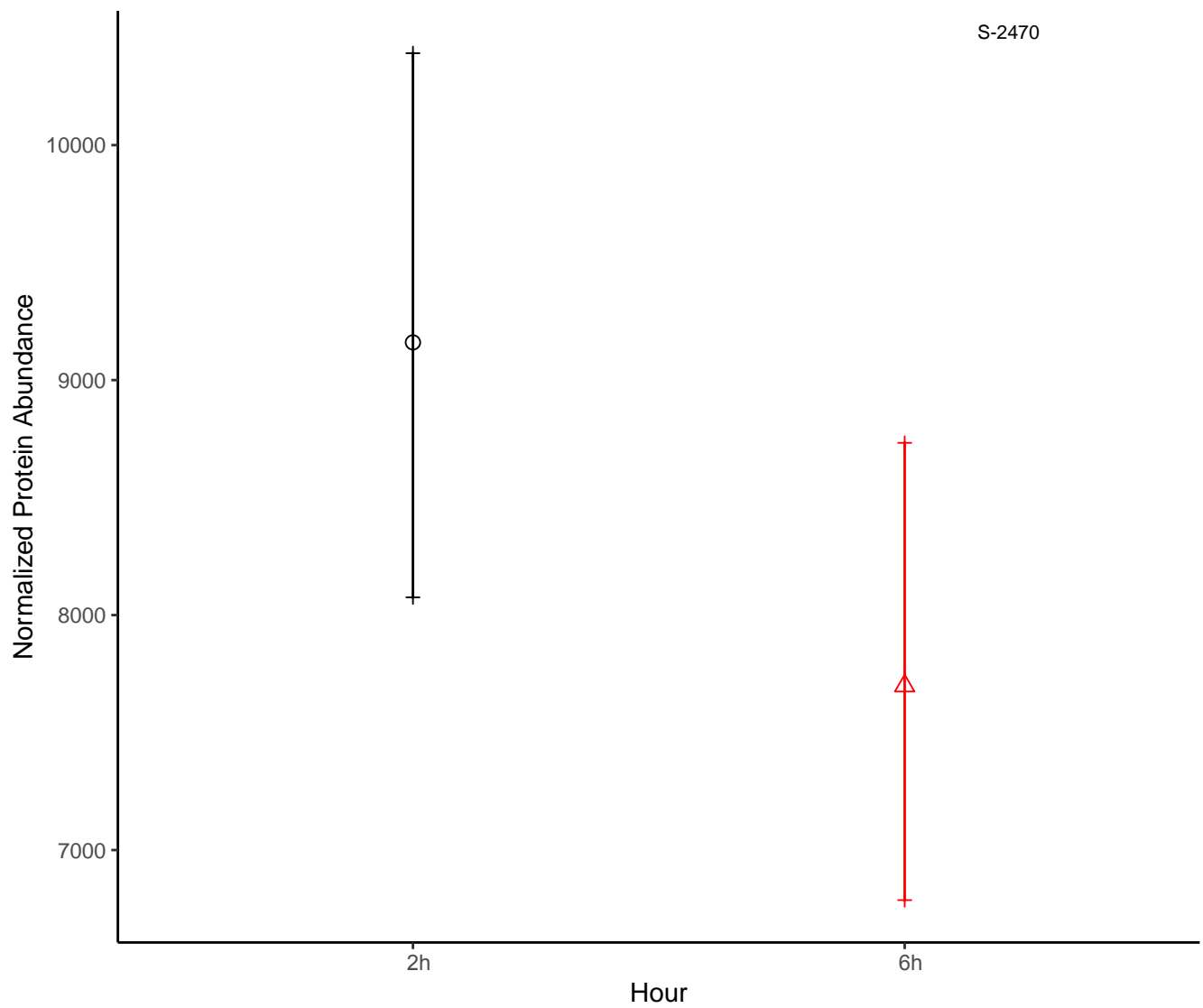


⊕ 2h

△ 6h

# Y1341\_STAAM

S-2470

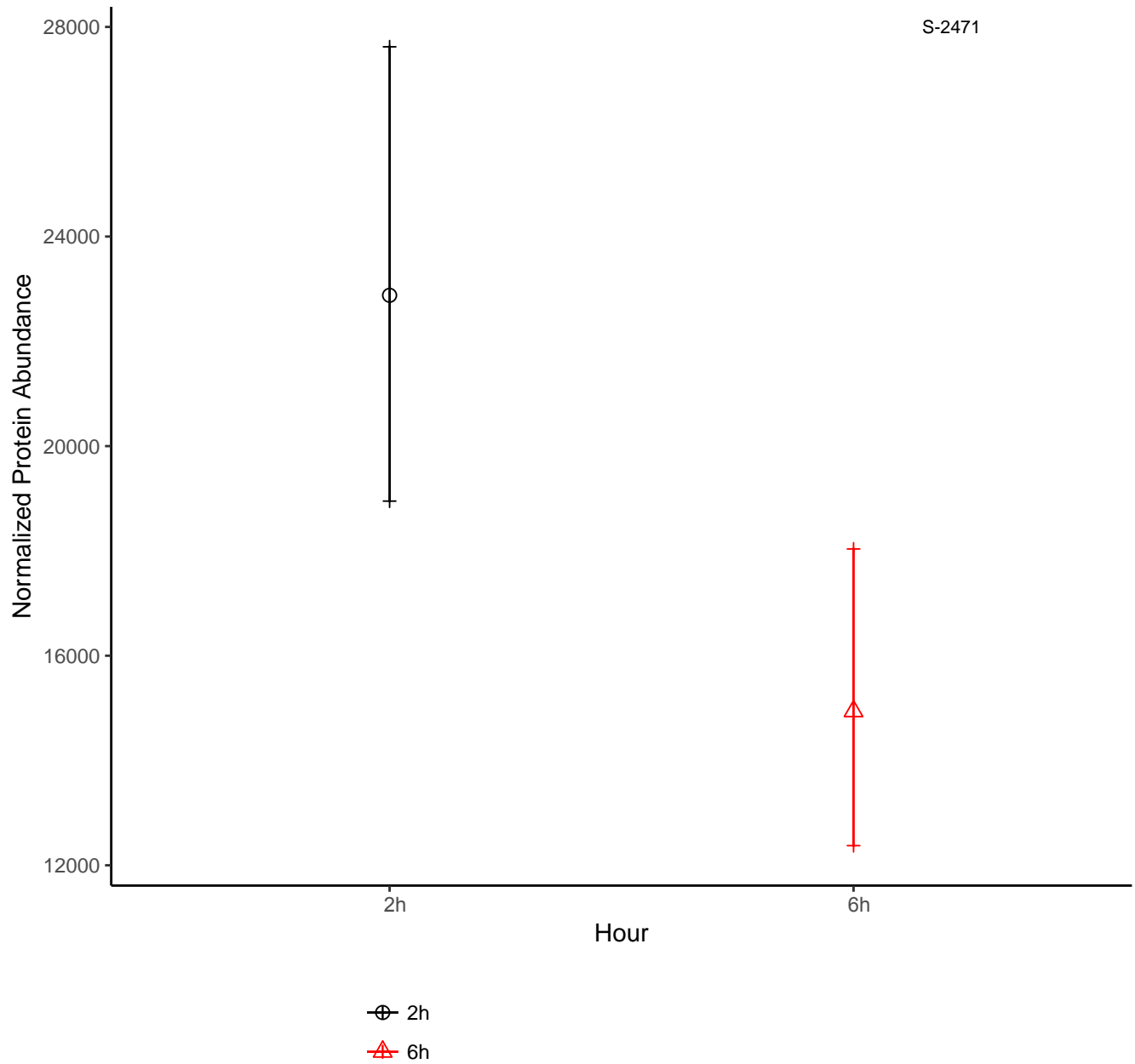


⊕ 2h

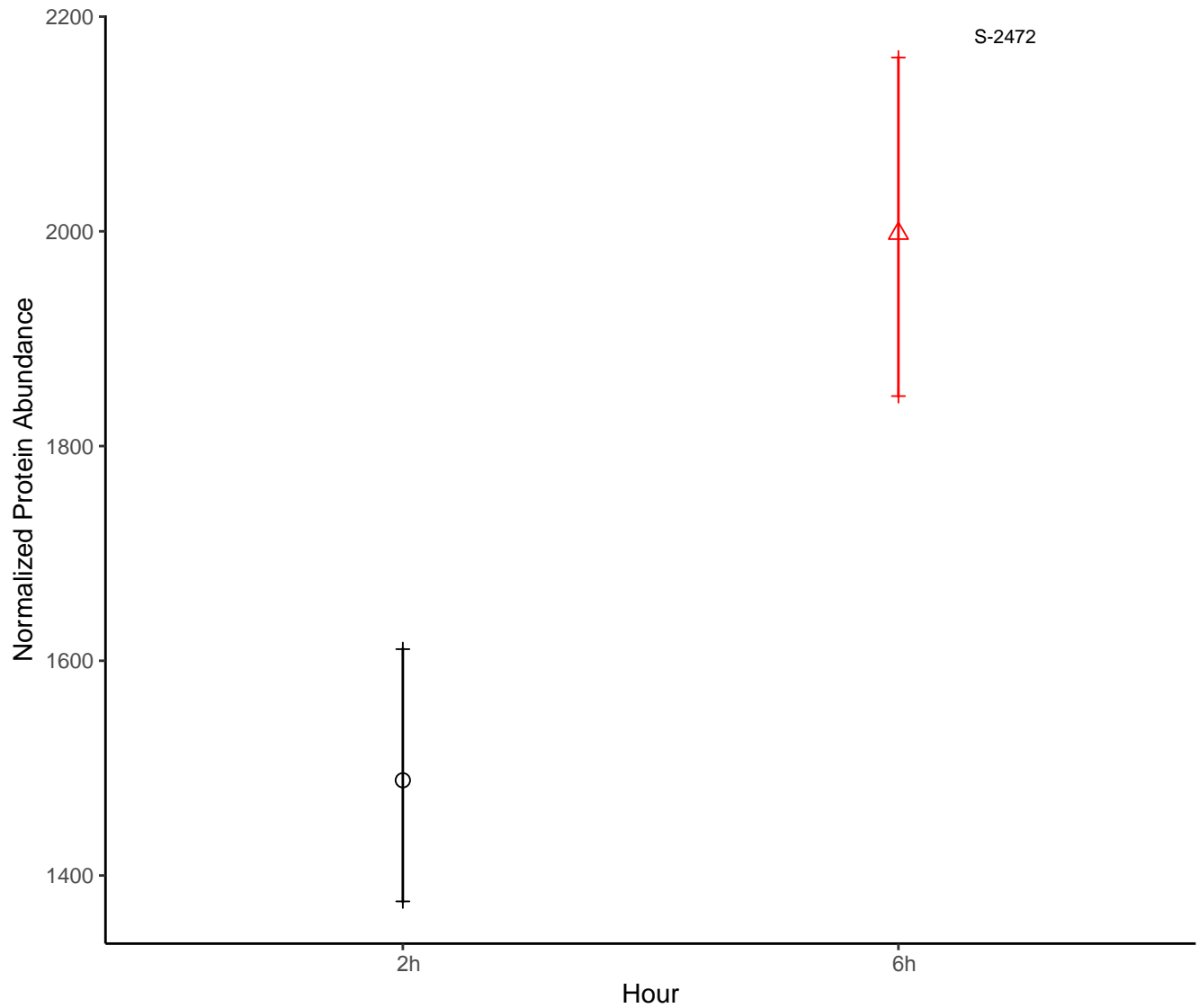
△ 6h

# Y1343\_STAAM

S-2471



# Y1352\_STAAM

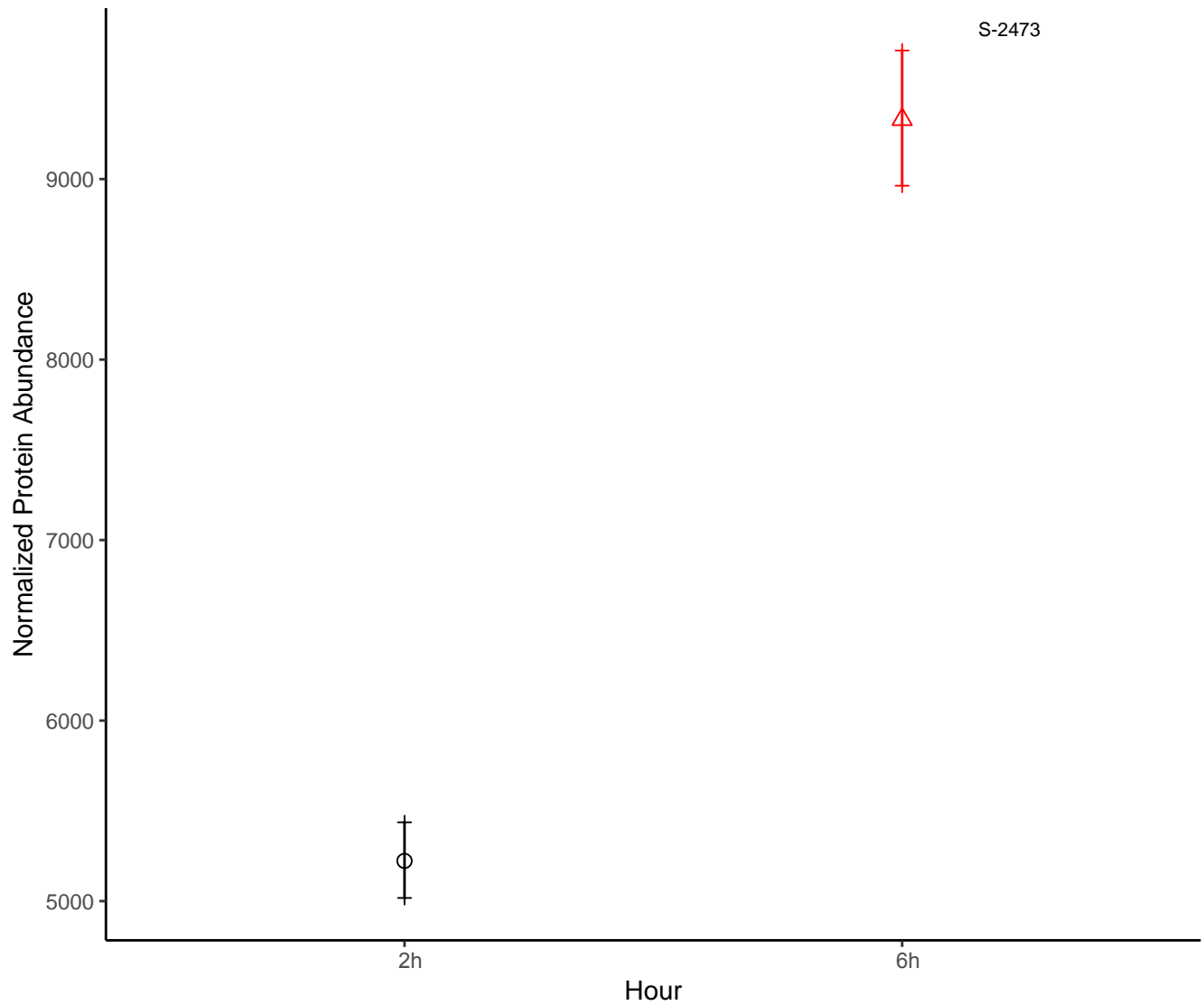


⊕ 2h

△ 6h



# Y1363\_STAAM

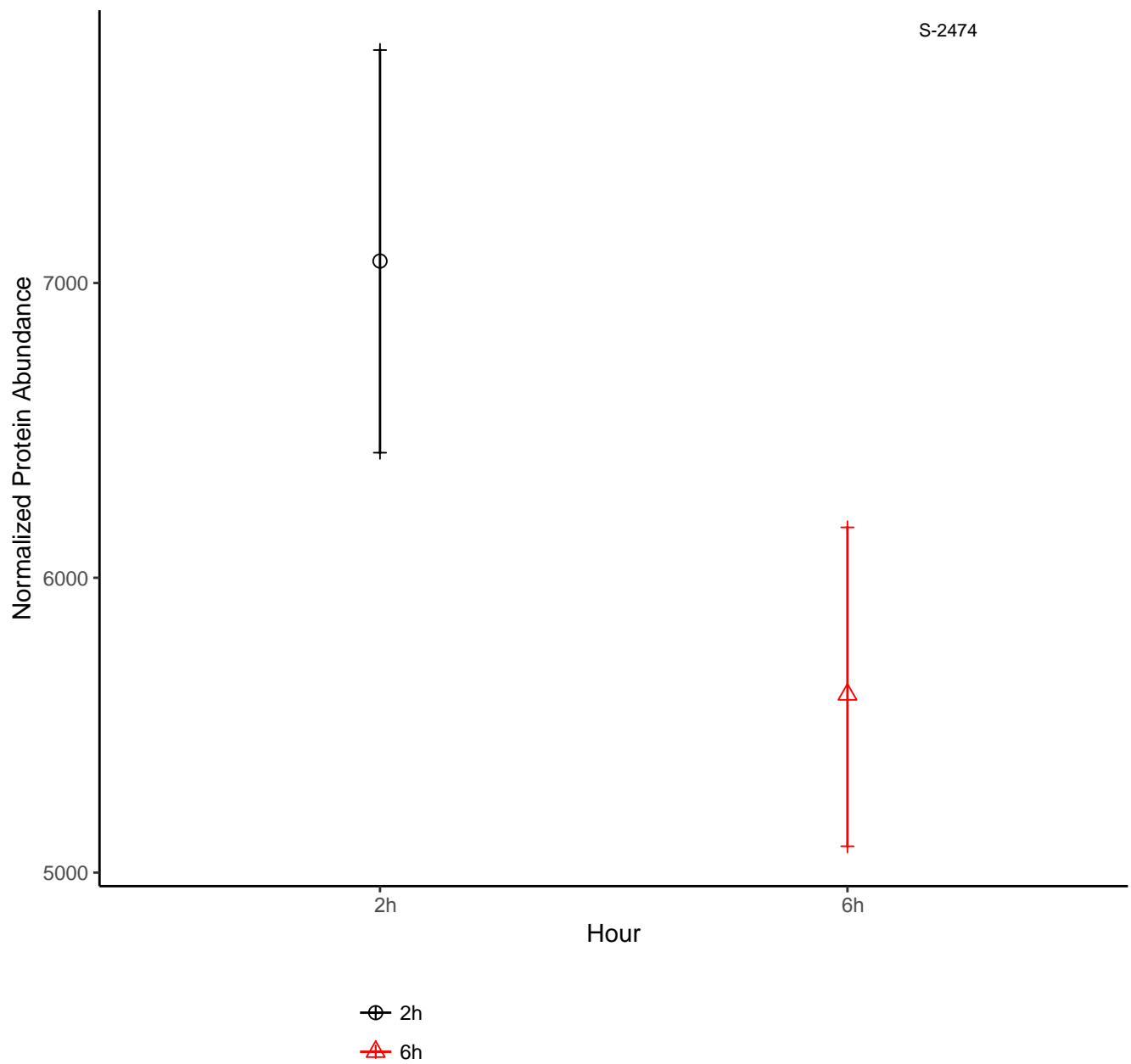


⊕ 2h

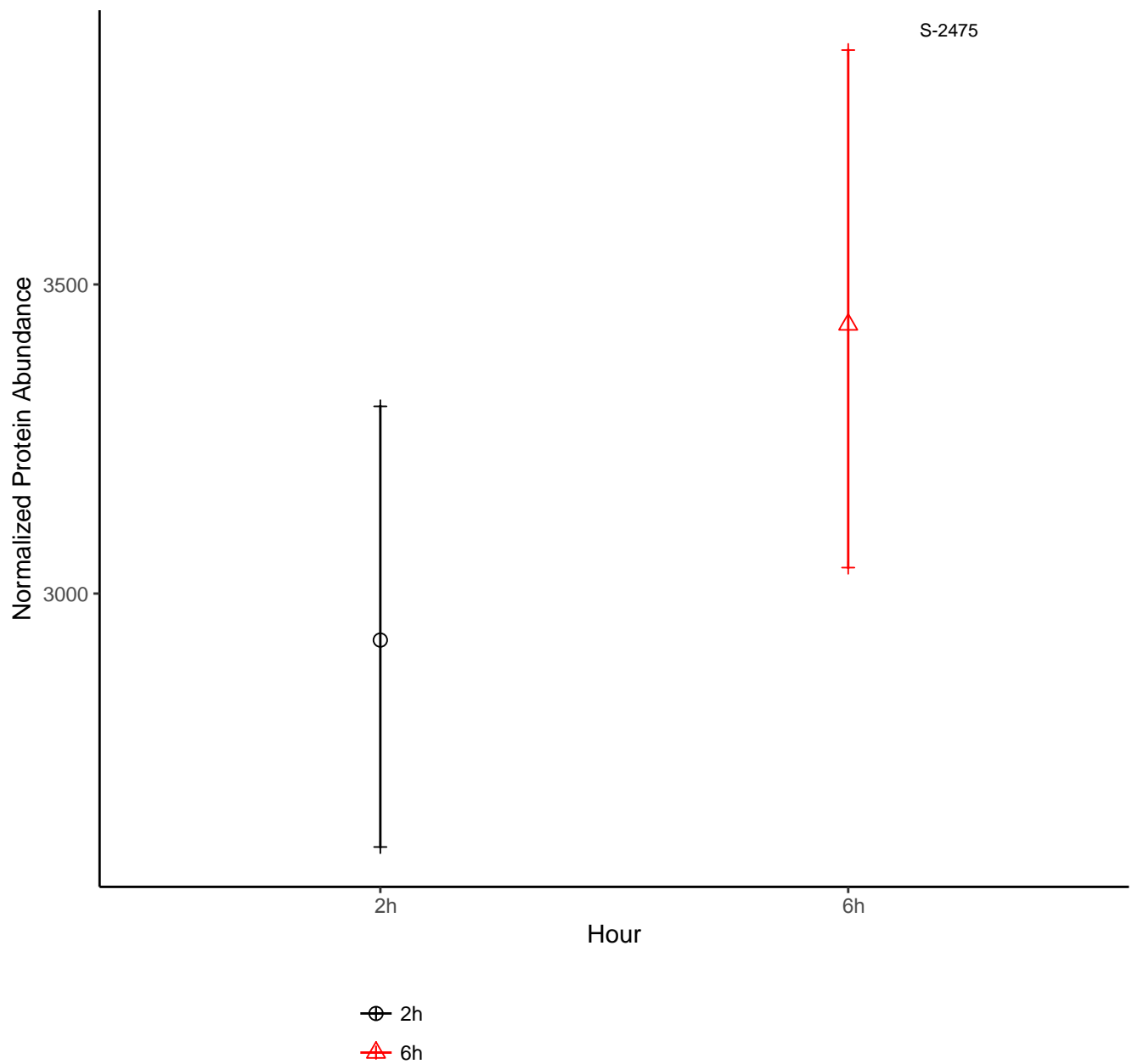
△ 6h

# Y1409\_STAAM

S-2474

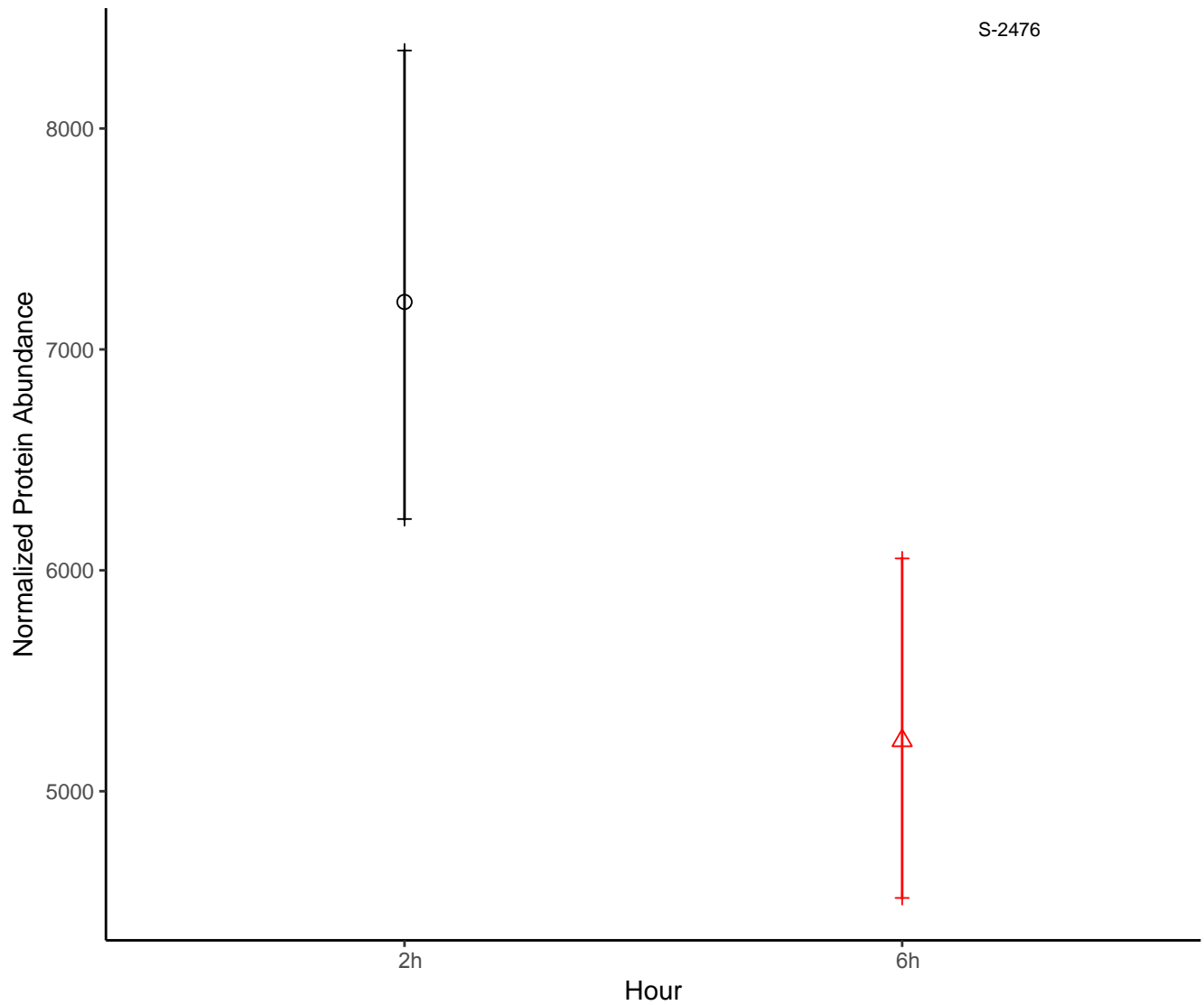


# Y1425\_STAAM



# Y1462\_STAAM

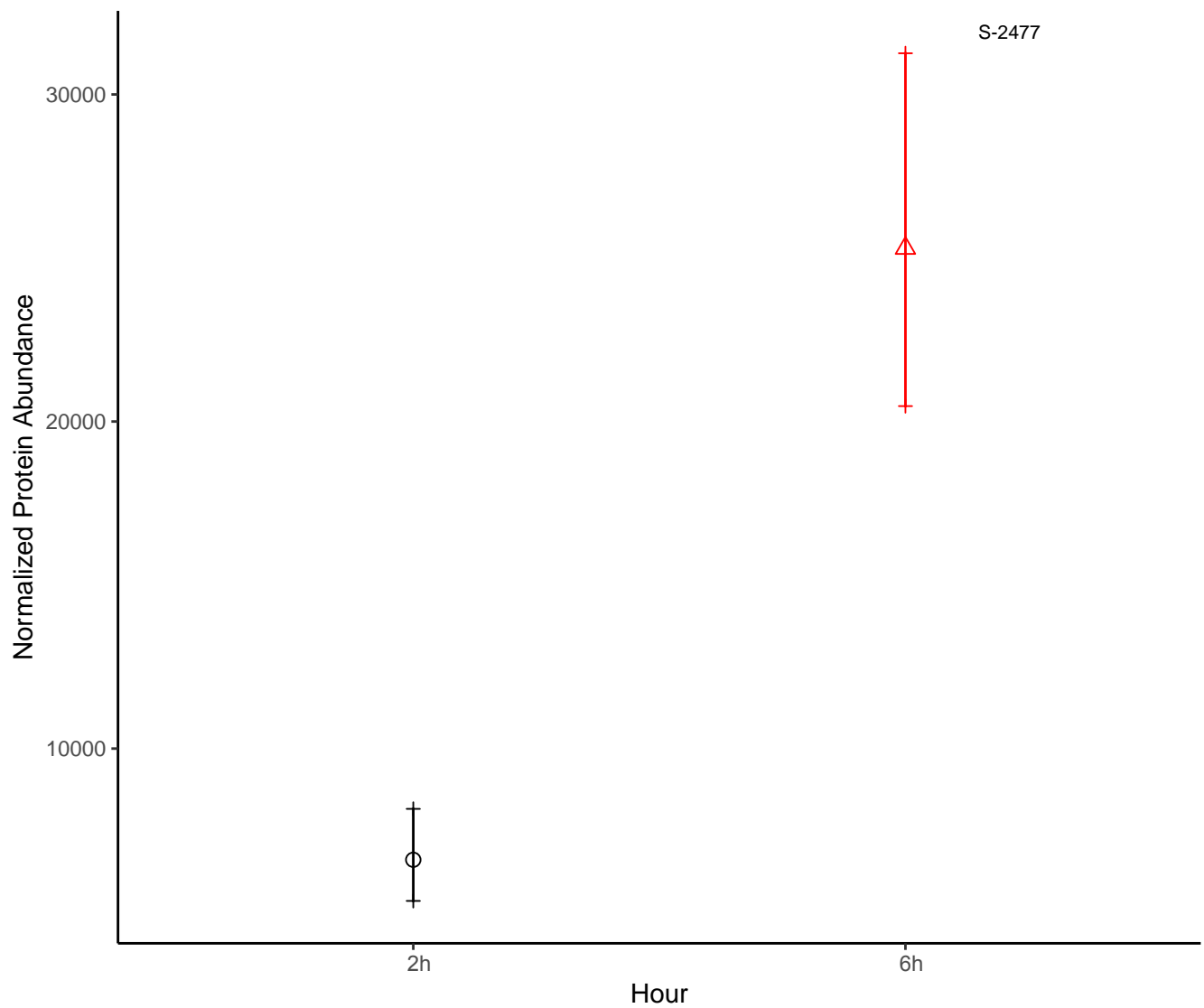
S-2476



⊕ 2h

△ 6h

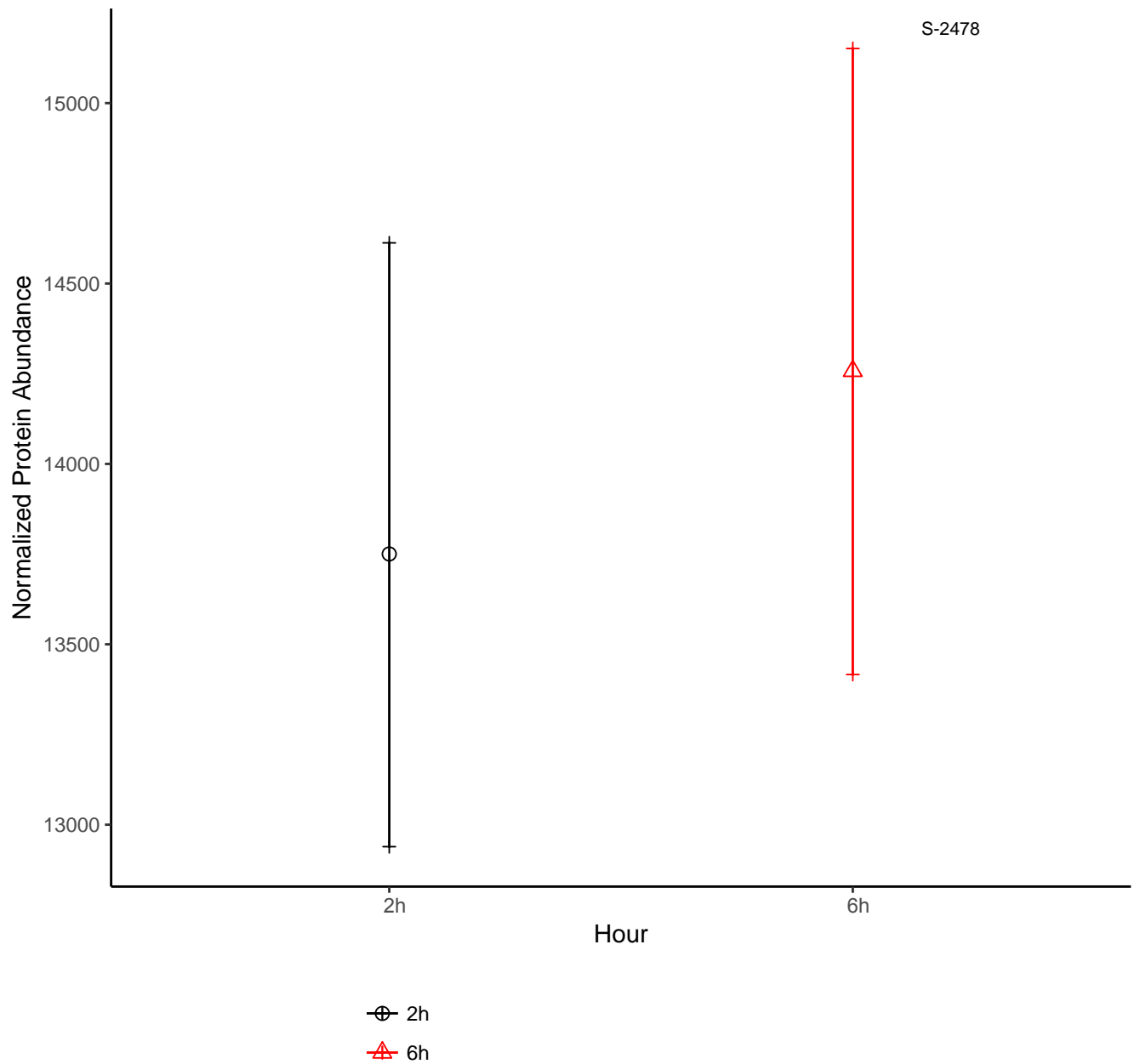
# Y1514\_STAAM



⊕ 2h

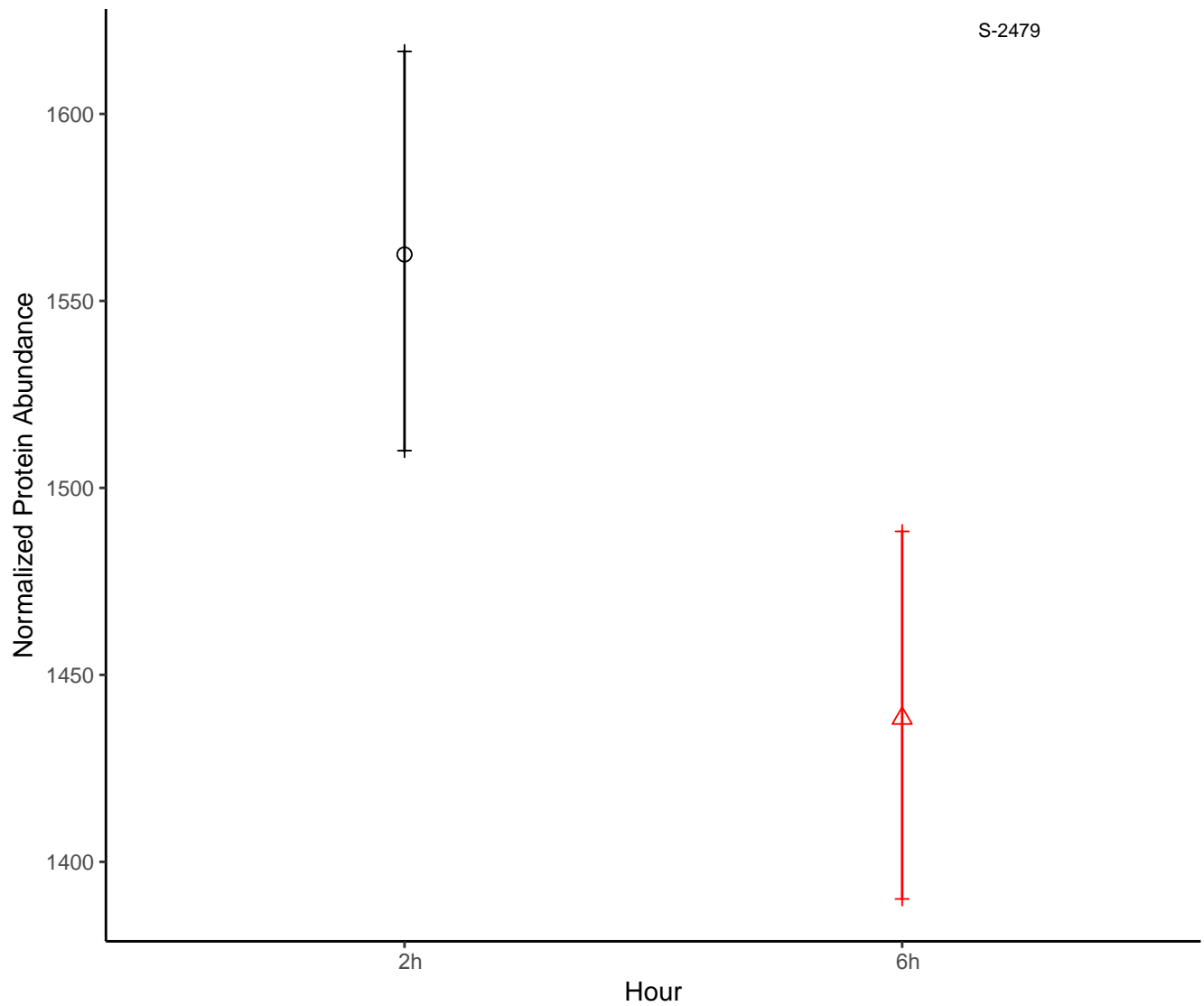
△ 6h

# Y1573\_STAAM



# Y1605\_STAAM

S-2479

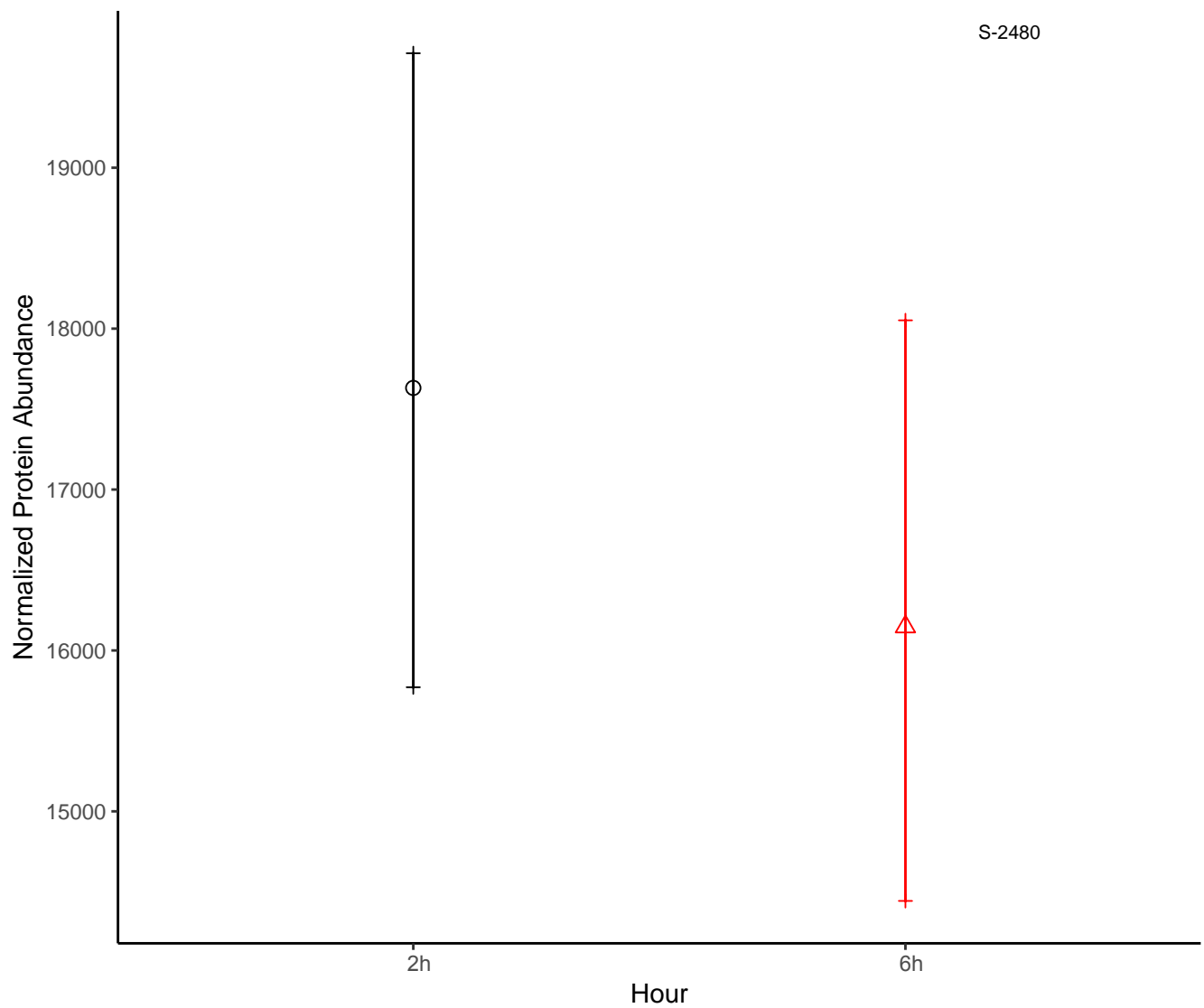


⊕ 2h

△ 6h

# Y1617\_STAAM

S-2480

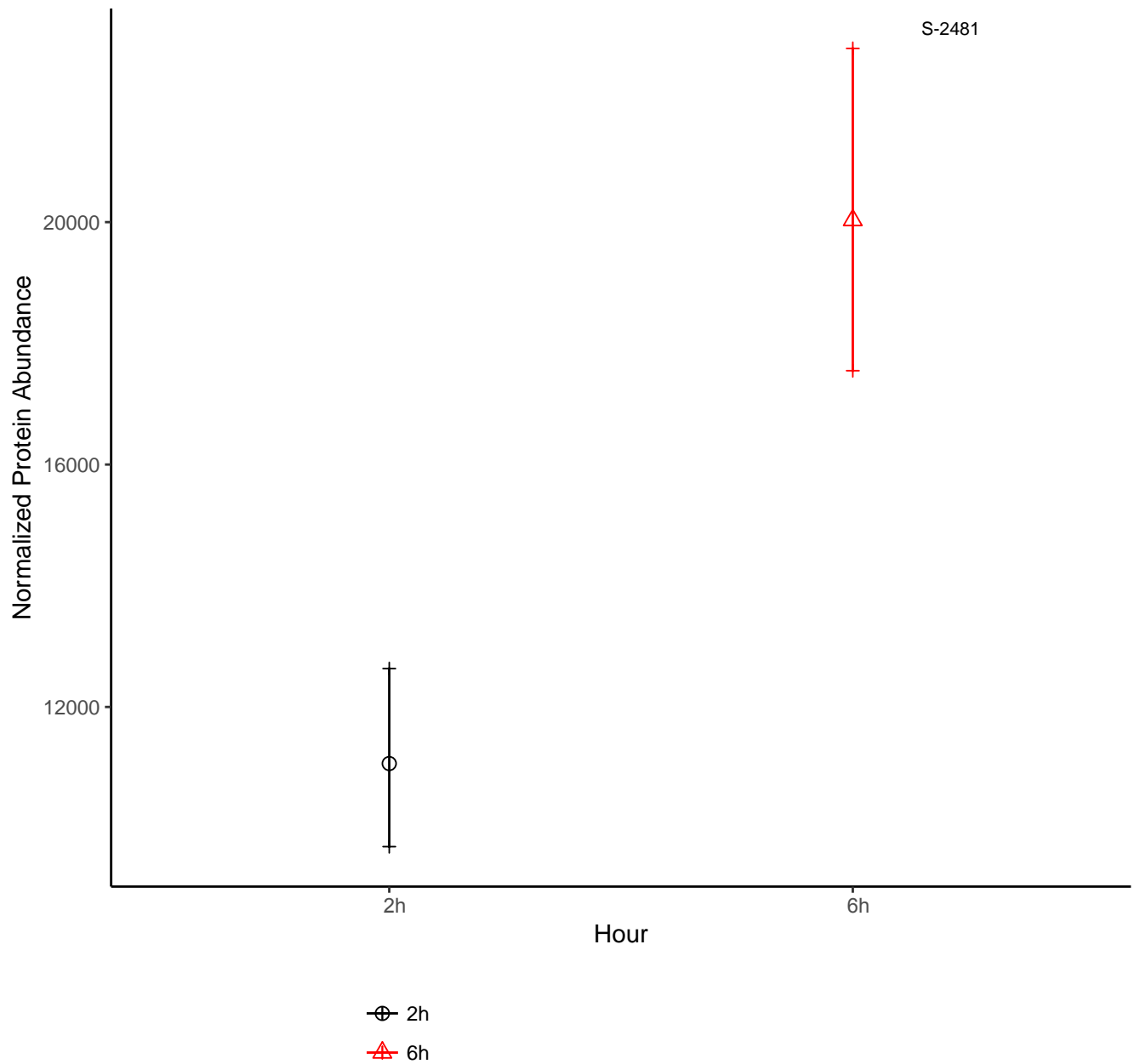


⊕ 2h

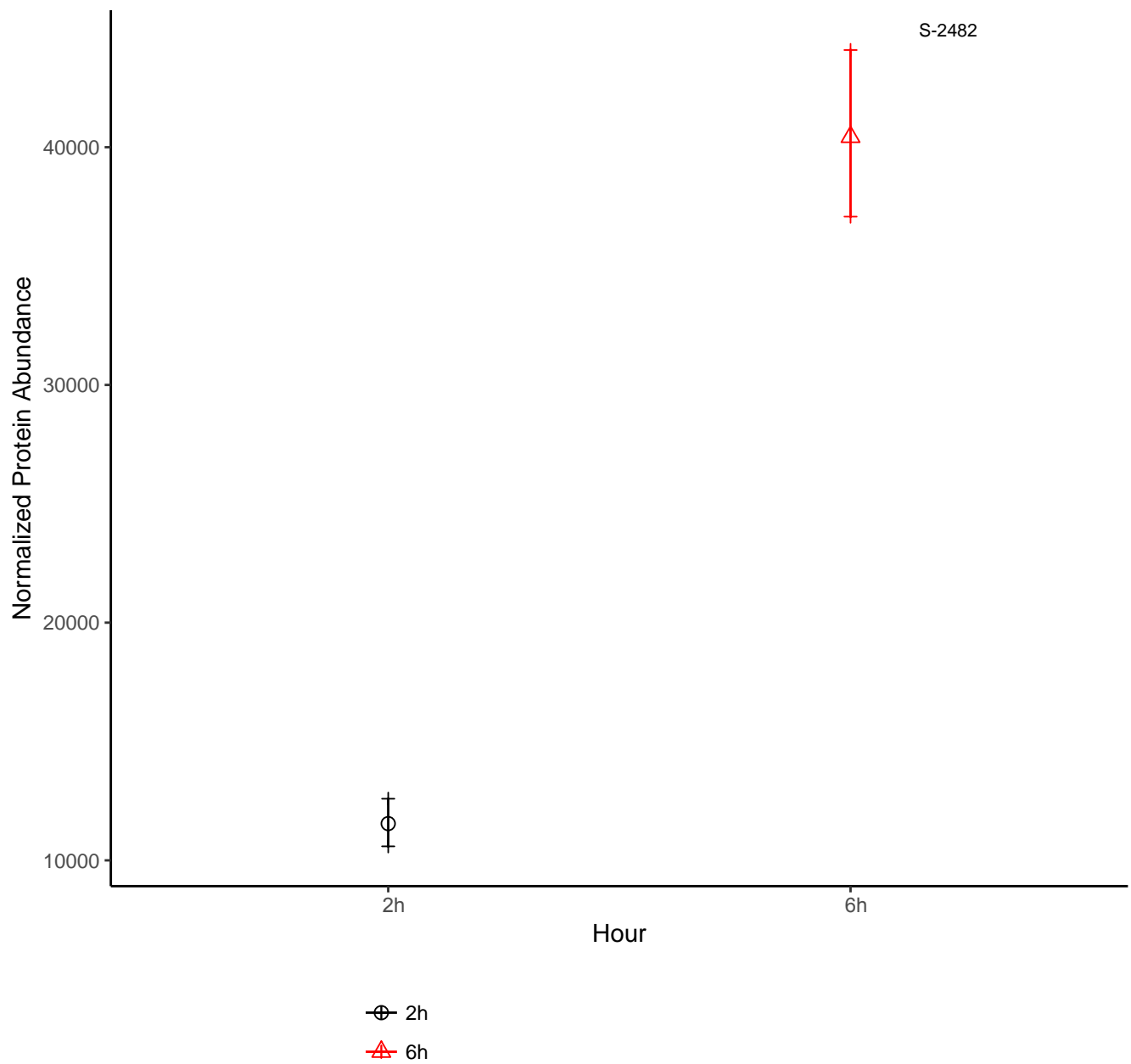
△ 6h



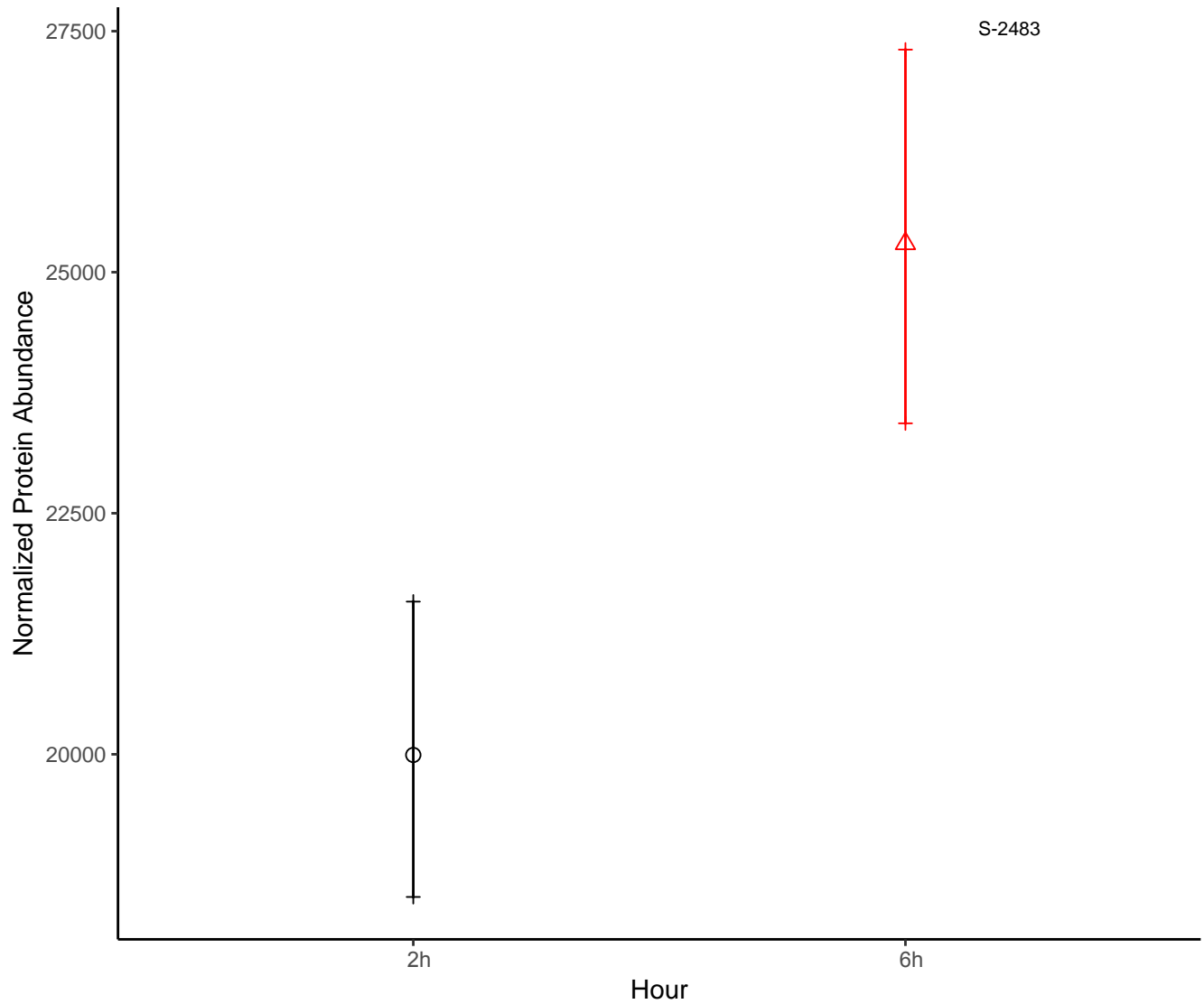
# Y1625\_STAAM



# Y1710\_STAAM



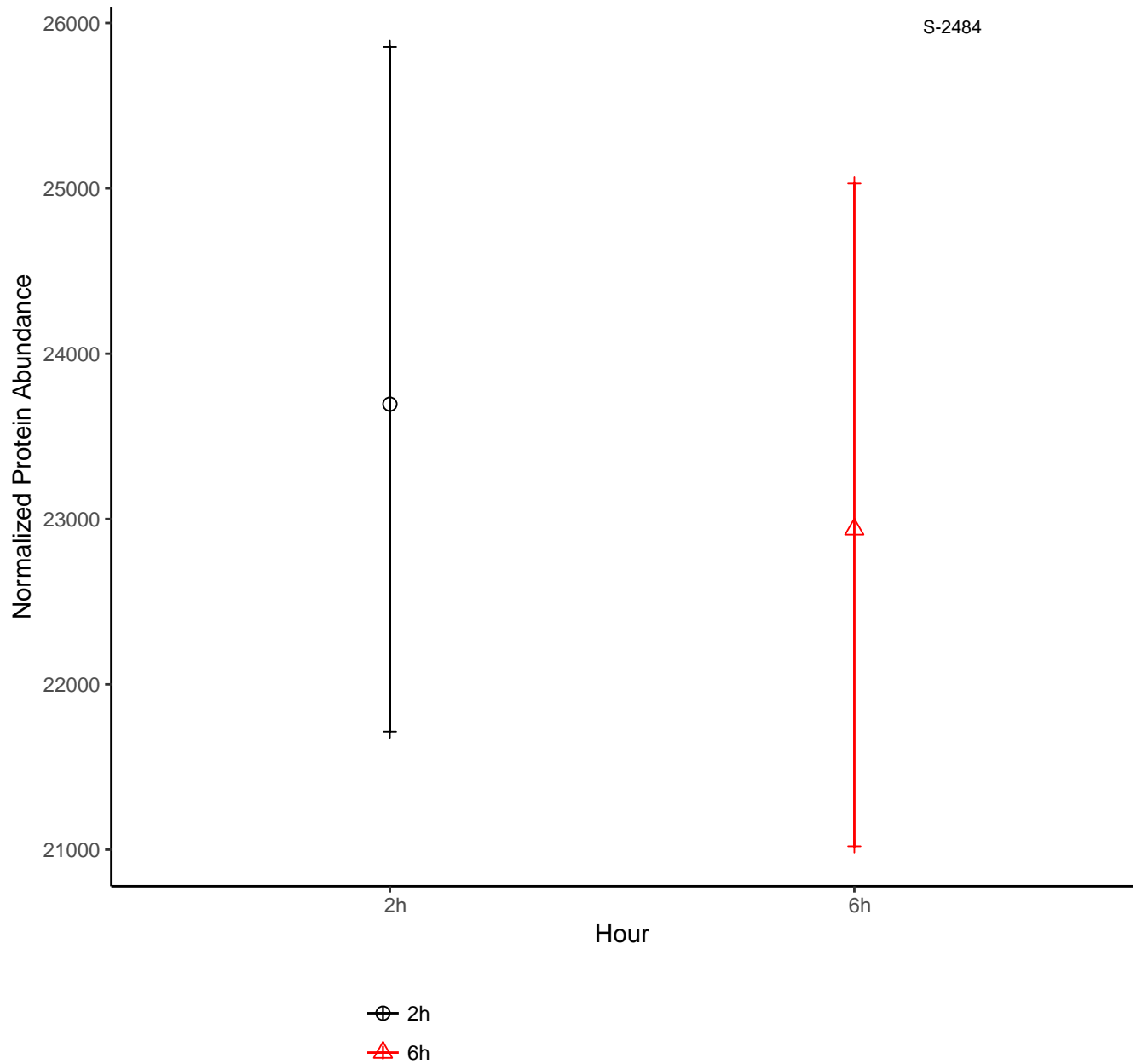
# Y1739\_STAAM



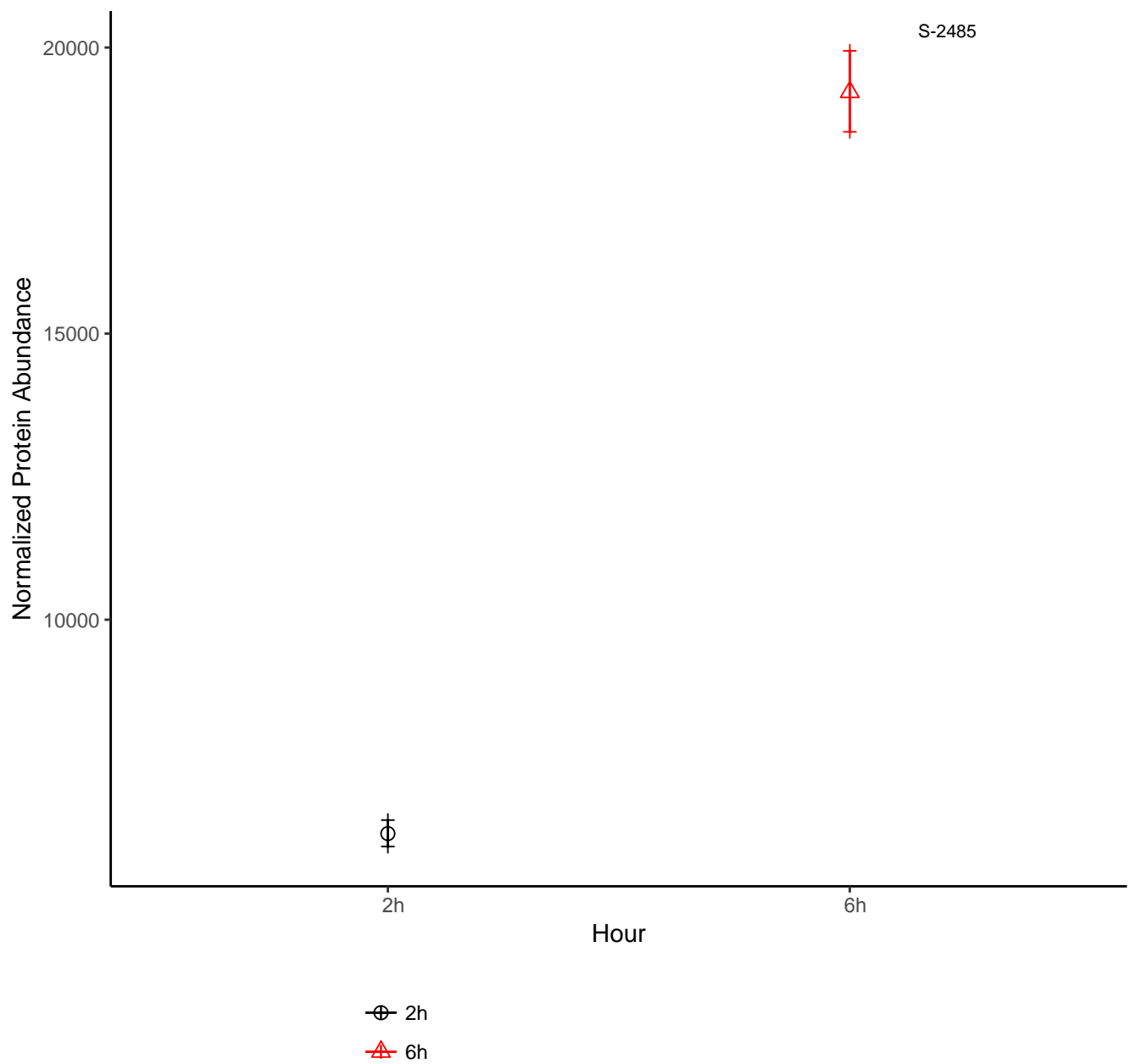
⊕ 2h

△ 6h

# Y1845\_STAAM

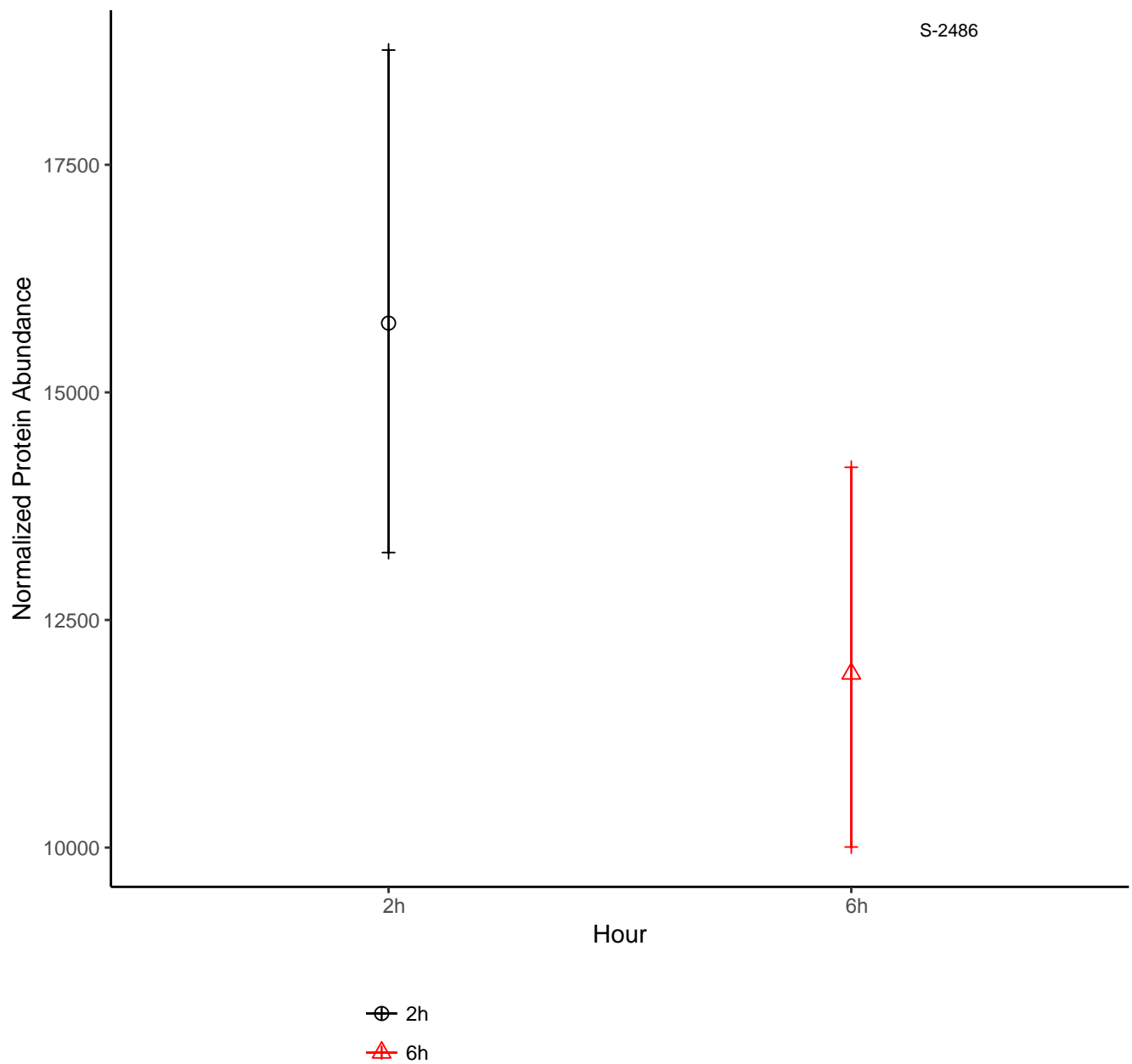


# Y1866\_STAAM

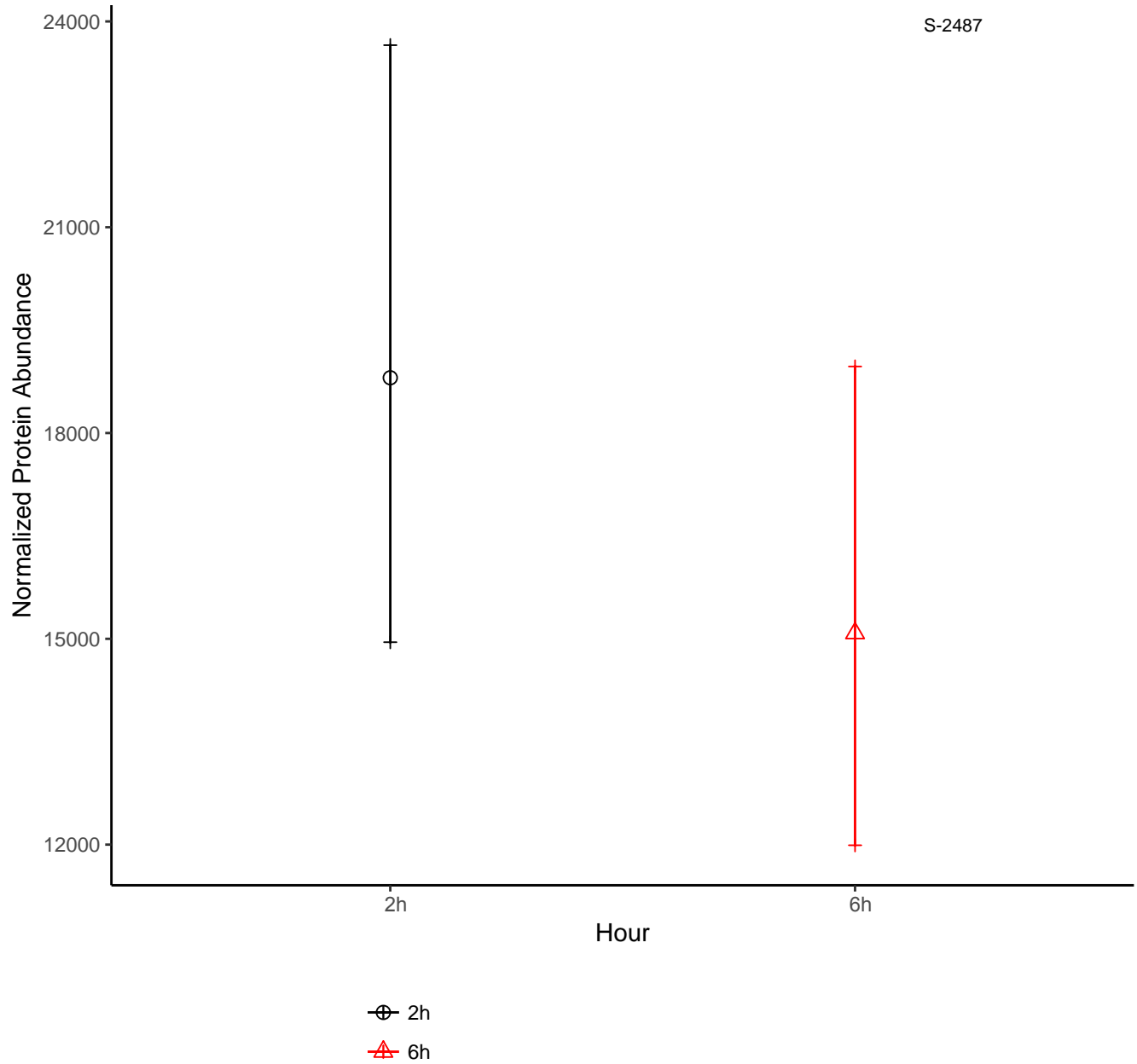


# Y1880\_STAAM

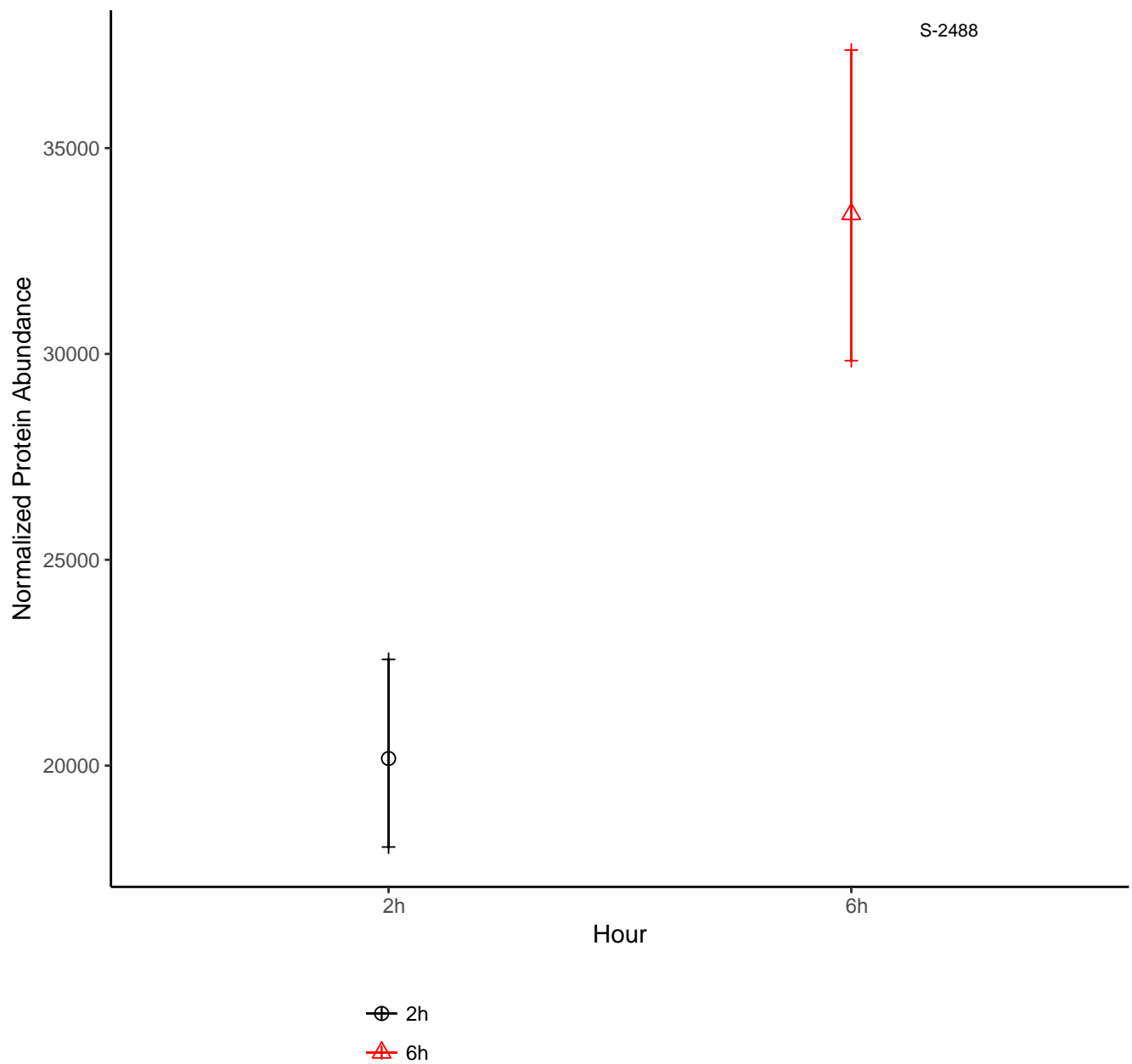
S-2486



# Y1921\_STAAM



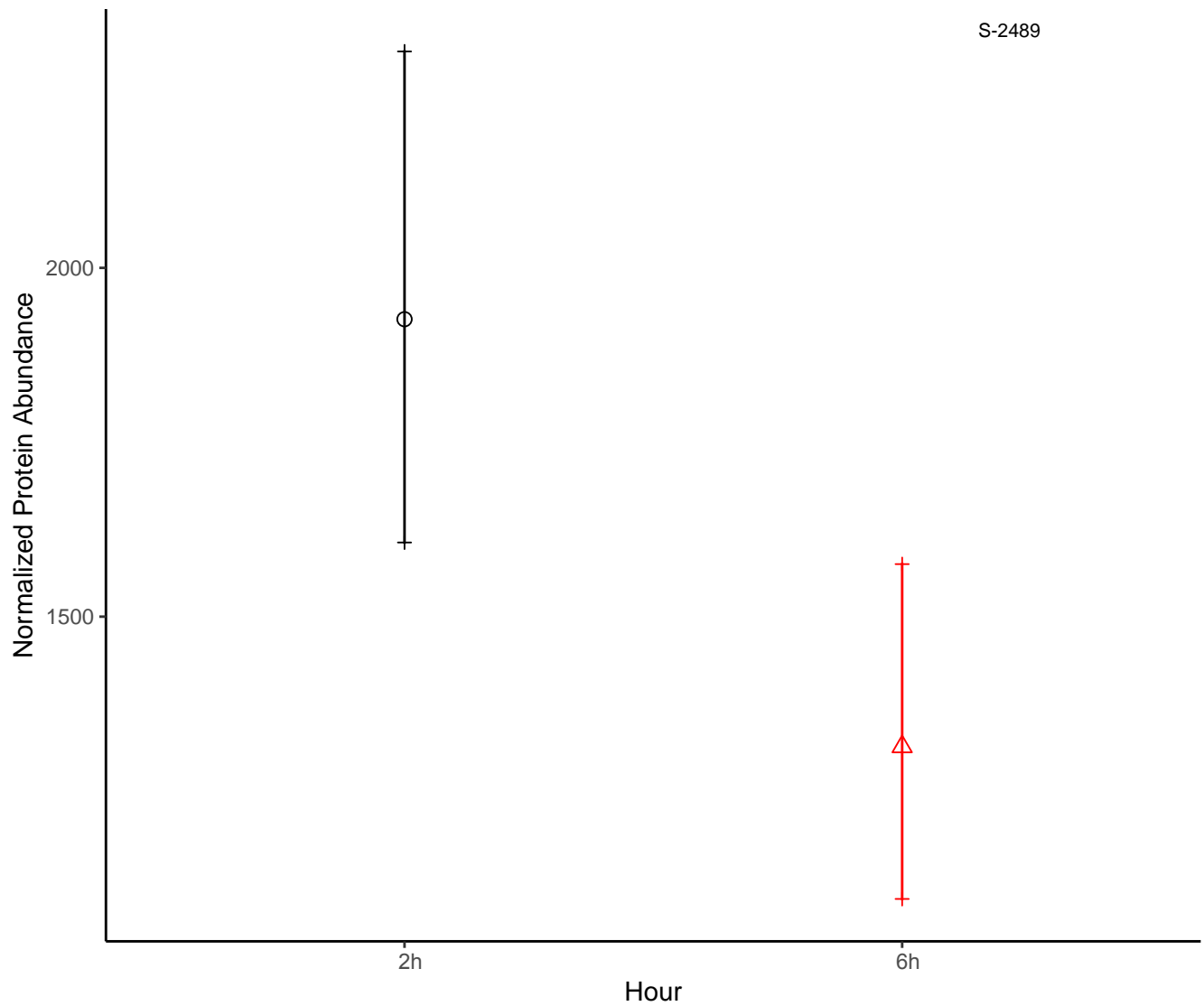
# Y2173\_STAAM





# Y2204\_STAAM

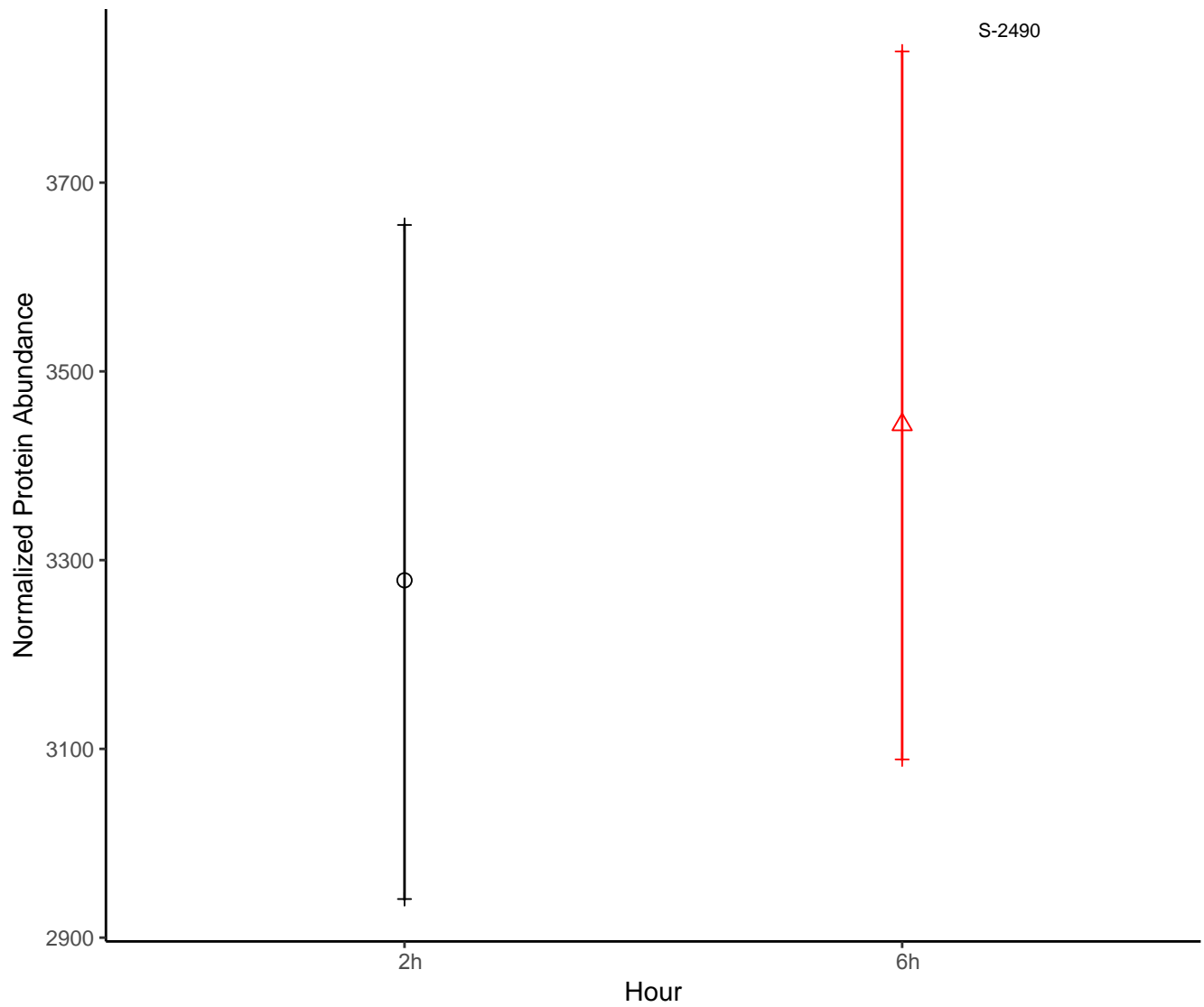
S-2489



⊕ 2h

△ 6h

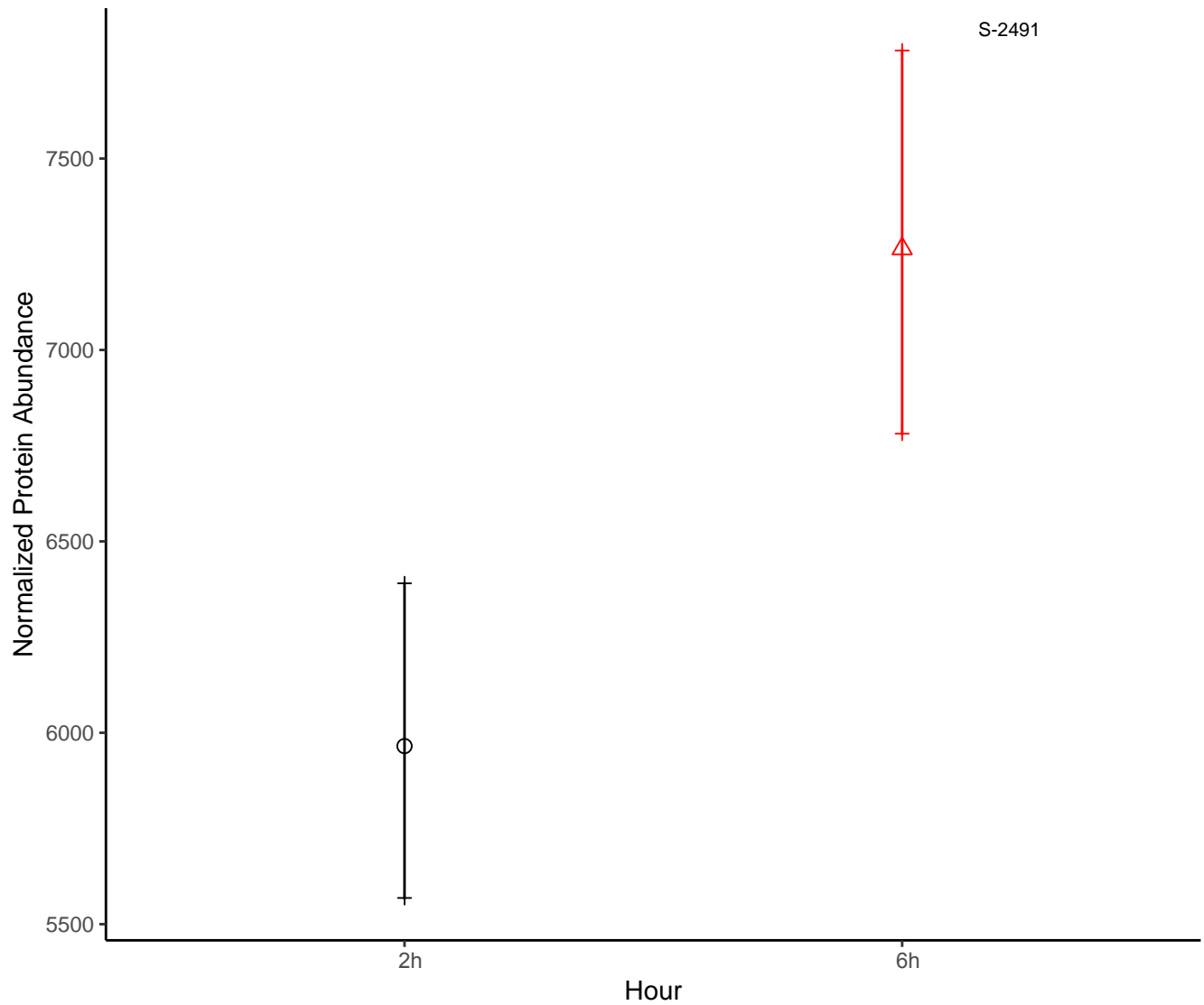
# Y2265\_STAAM



⊕ 2h

△ 6h

# Y2305\_STAAM

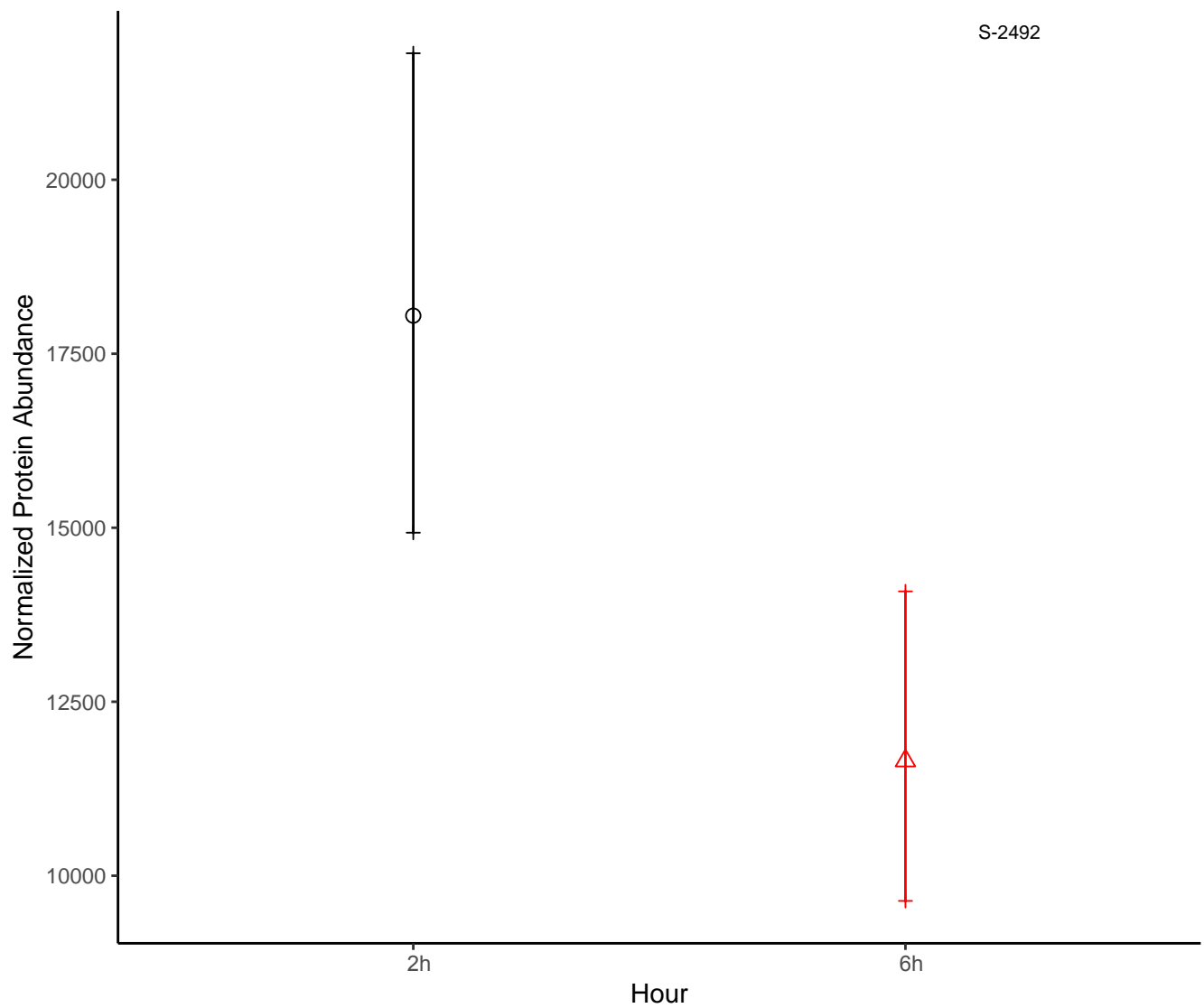


⊕ 2h

△ 6h

# Y2363\_STAAM

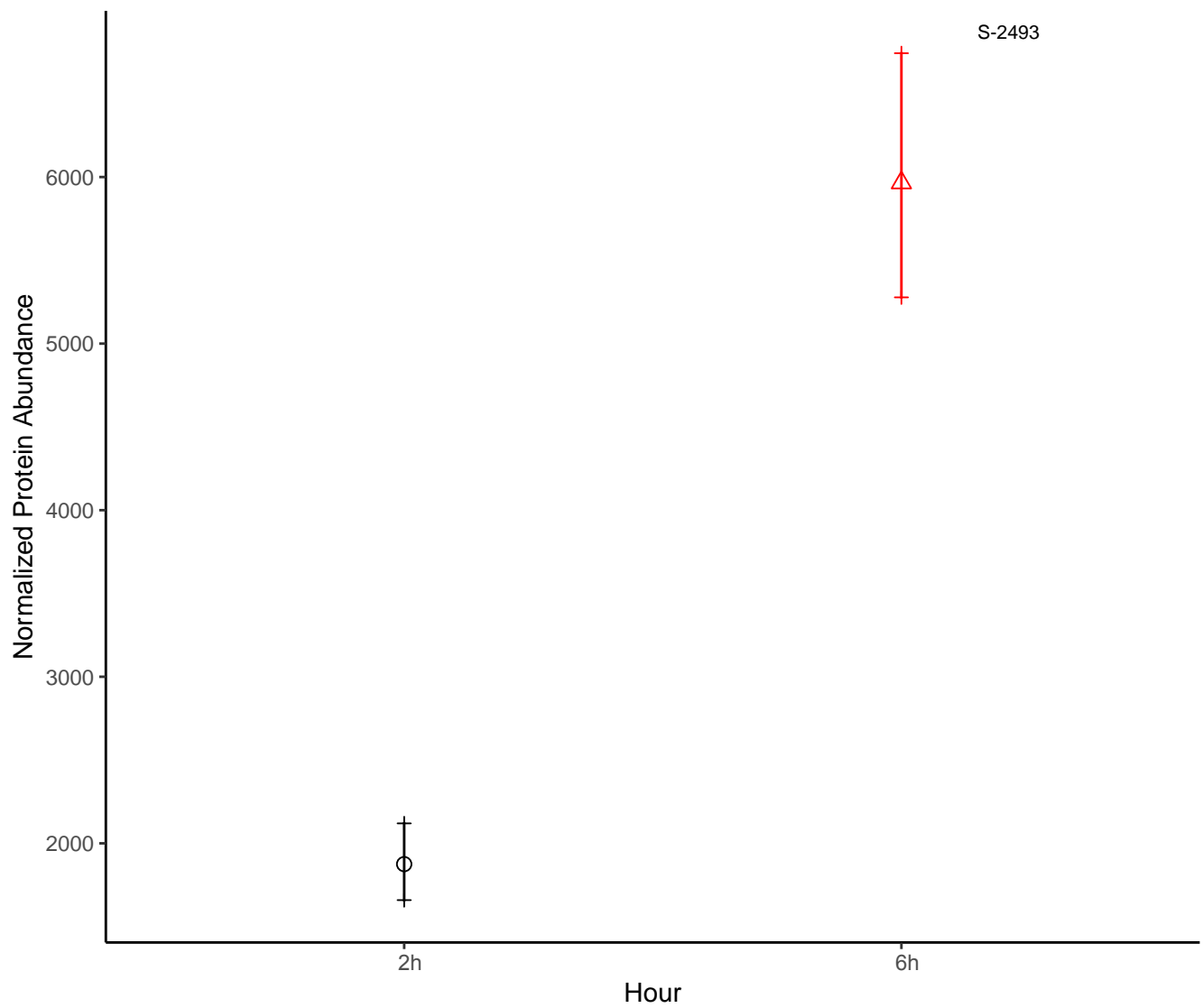
S-2492



⊕ 2h

△ 6h

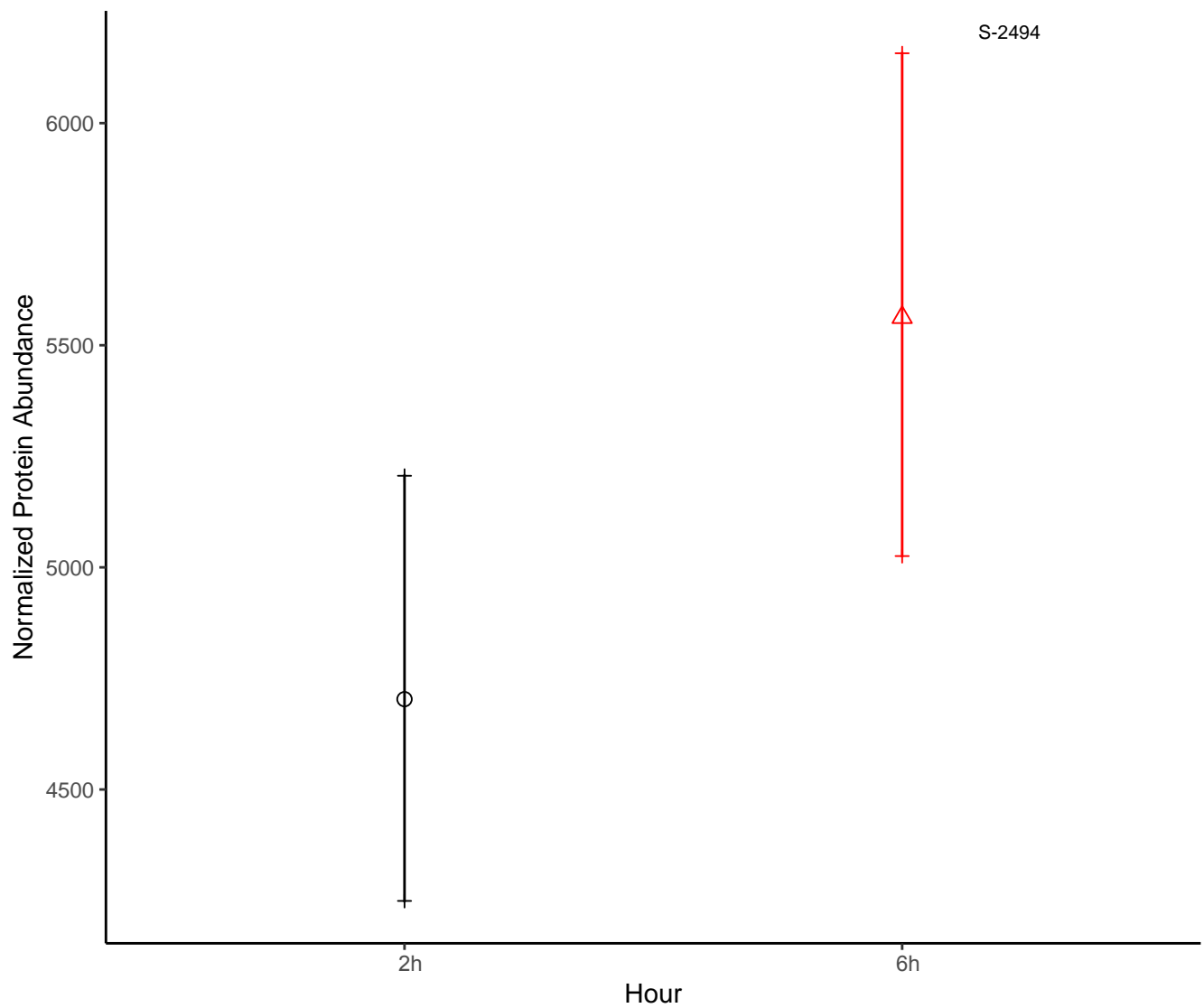
# Y2368\_STAAM



⊕ 2h

△ 6h

# Y2478\_STAAM

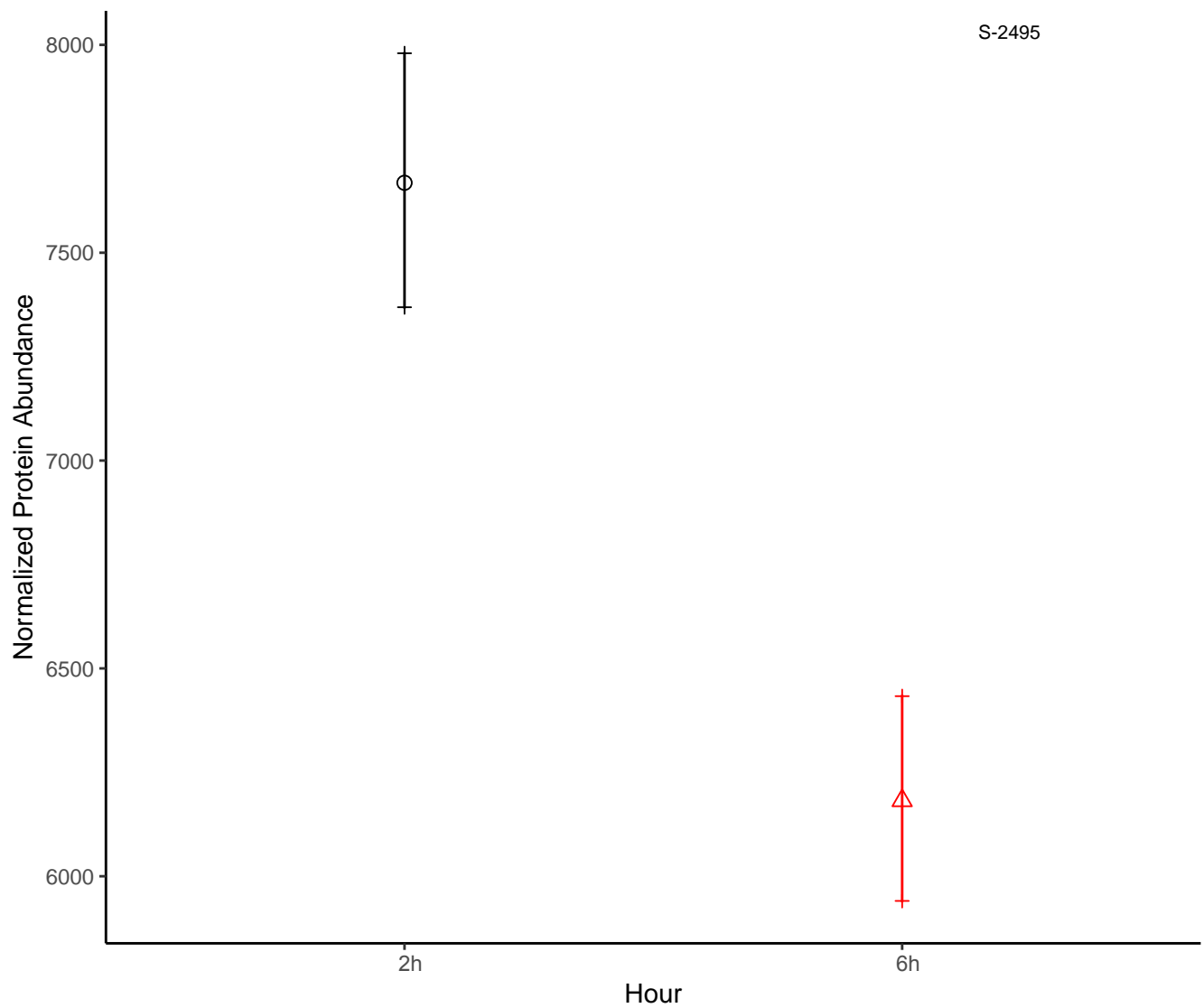


⊕ 2h

△ 6h

# Y2523\_STAAM

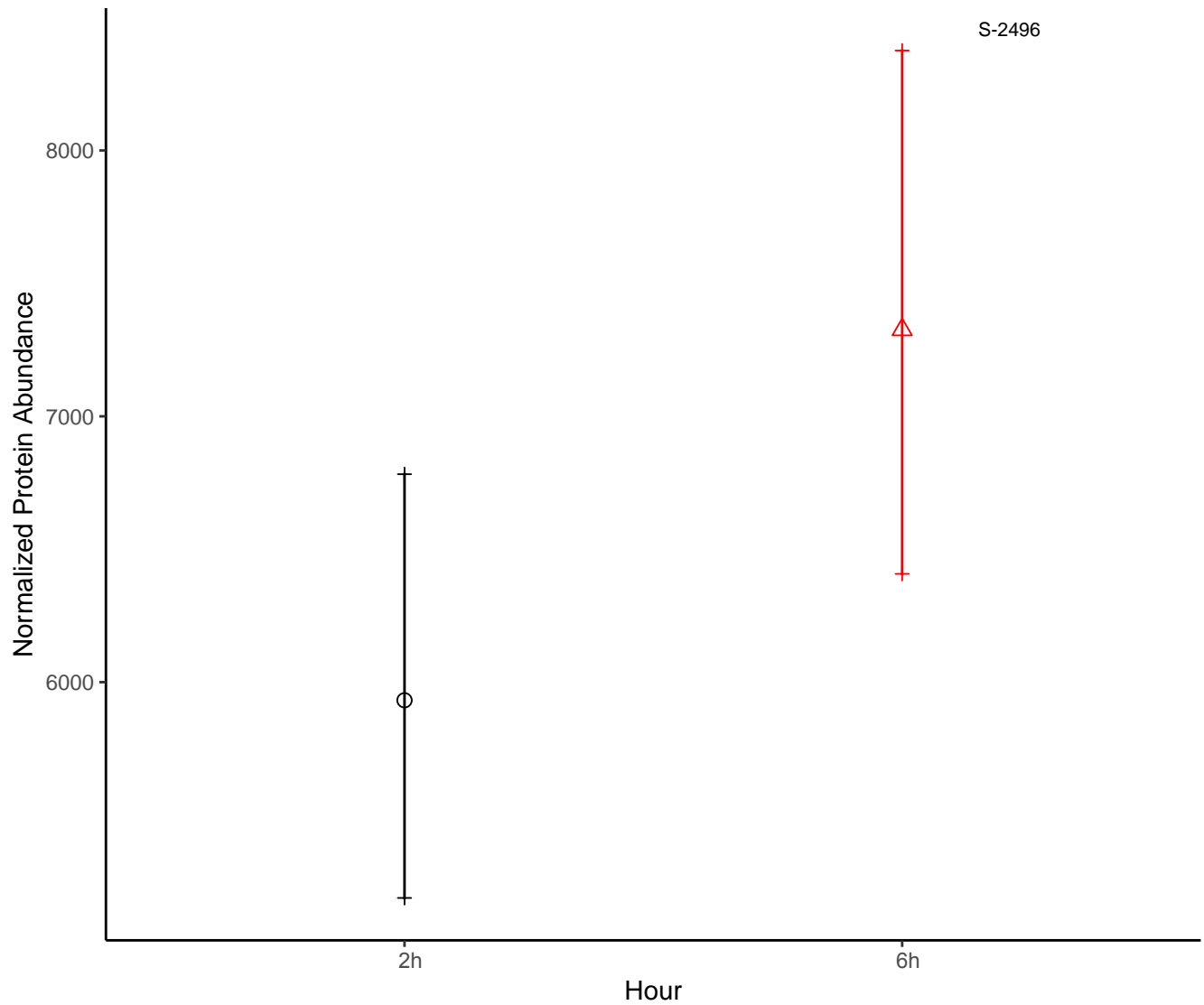
S-2495



⊕ 2h

△ 6h

# Y2573\_STAAM

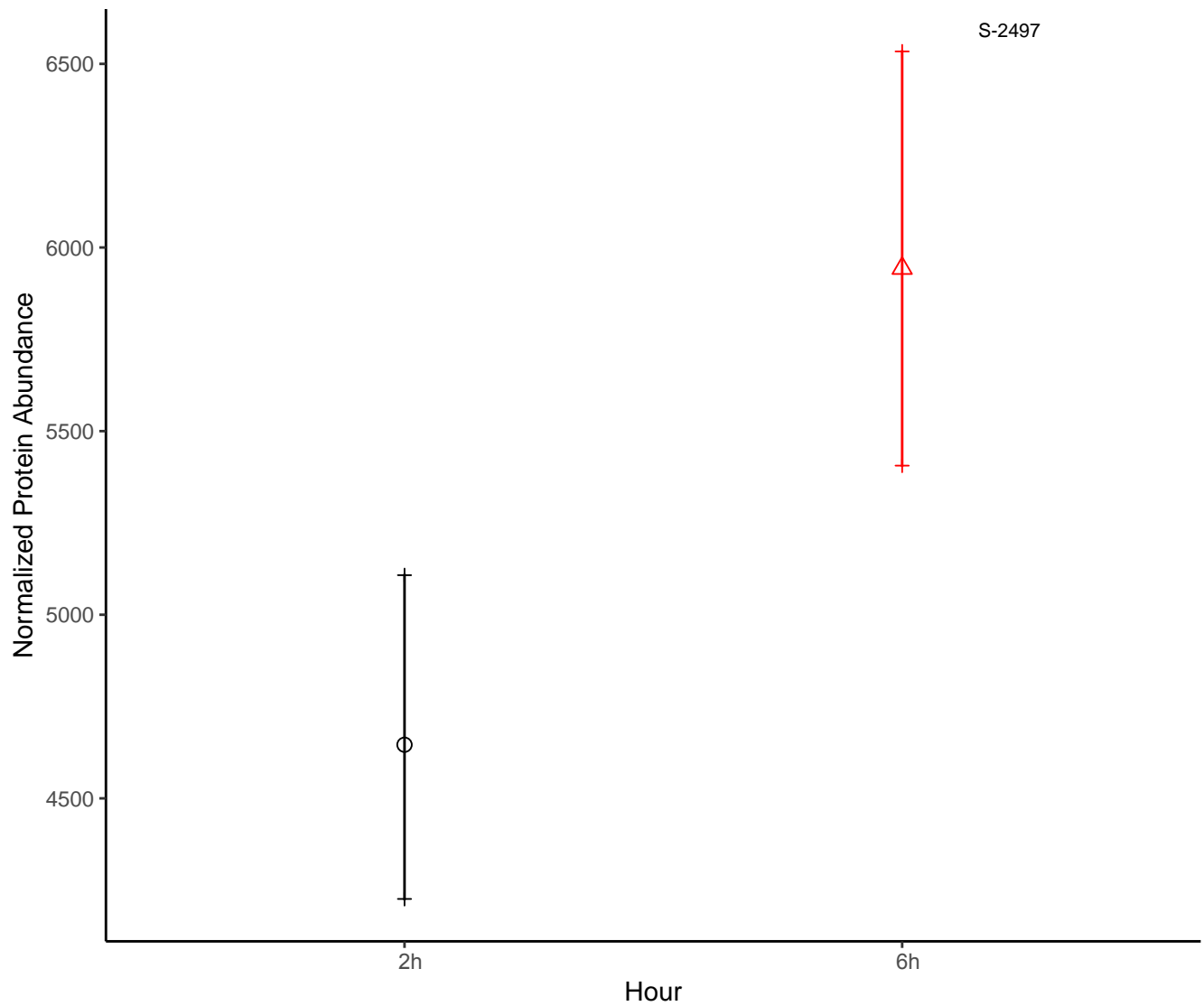


⊕ 2h

△ 6h



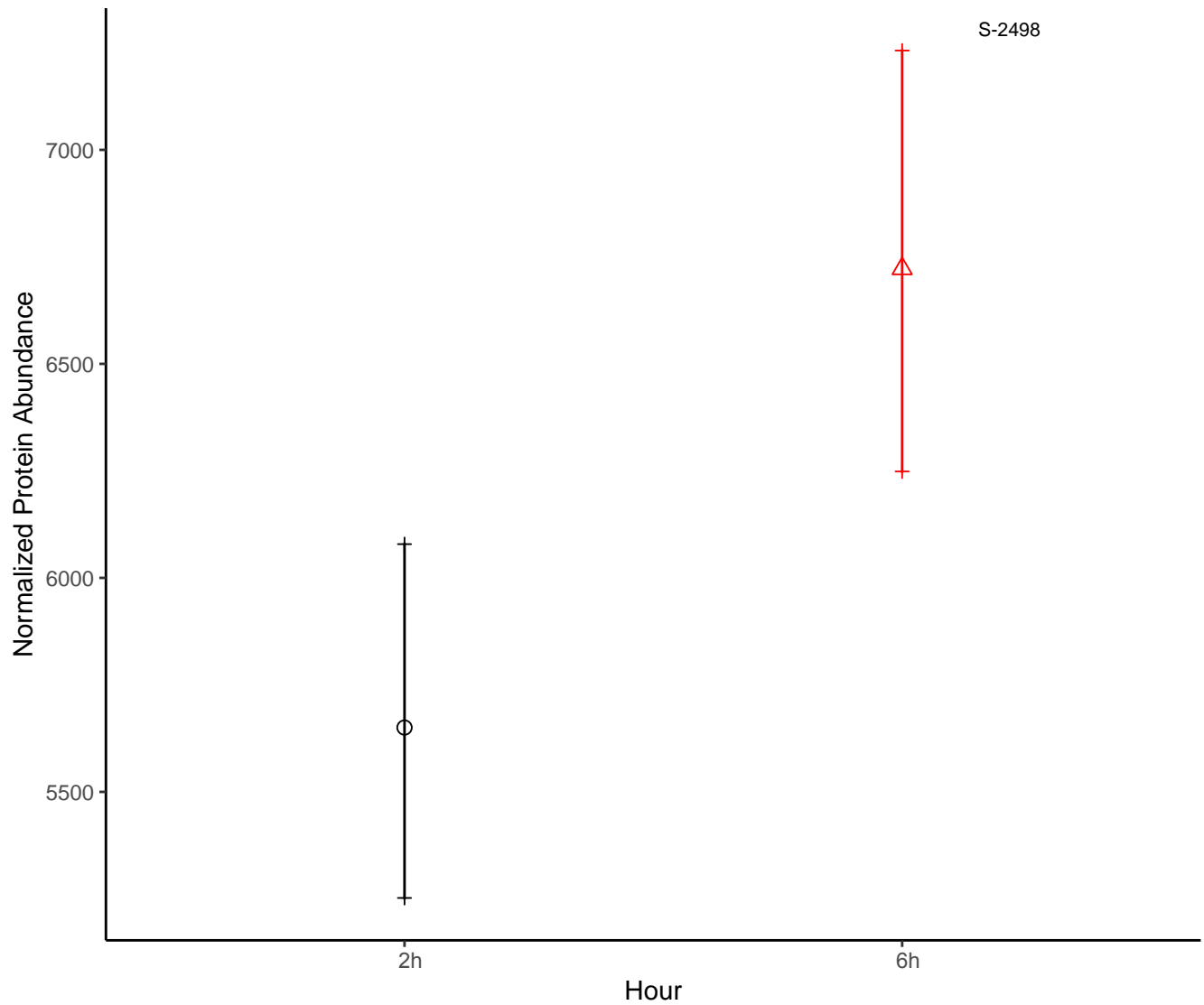
# Y2578\_STAAM



⊕ 2h

△ 6h

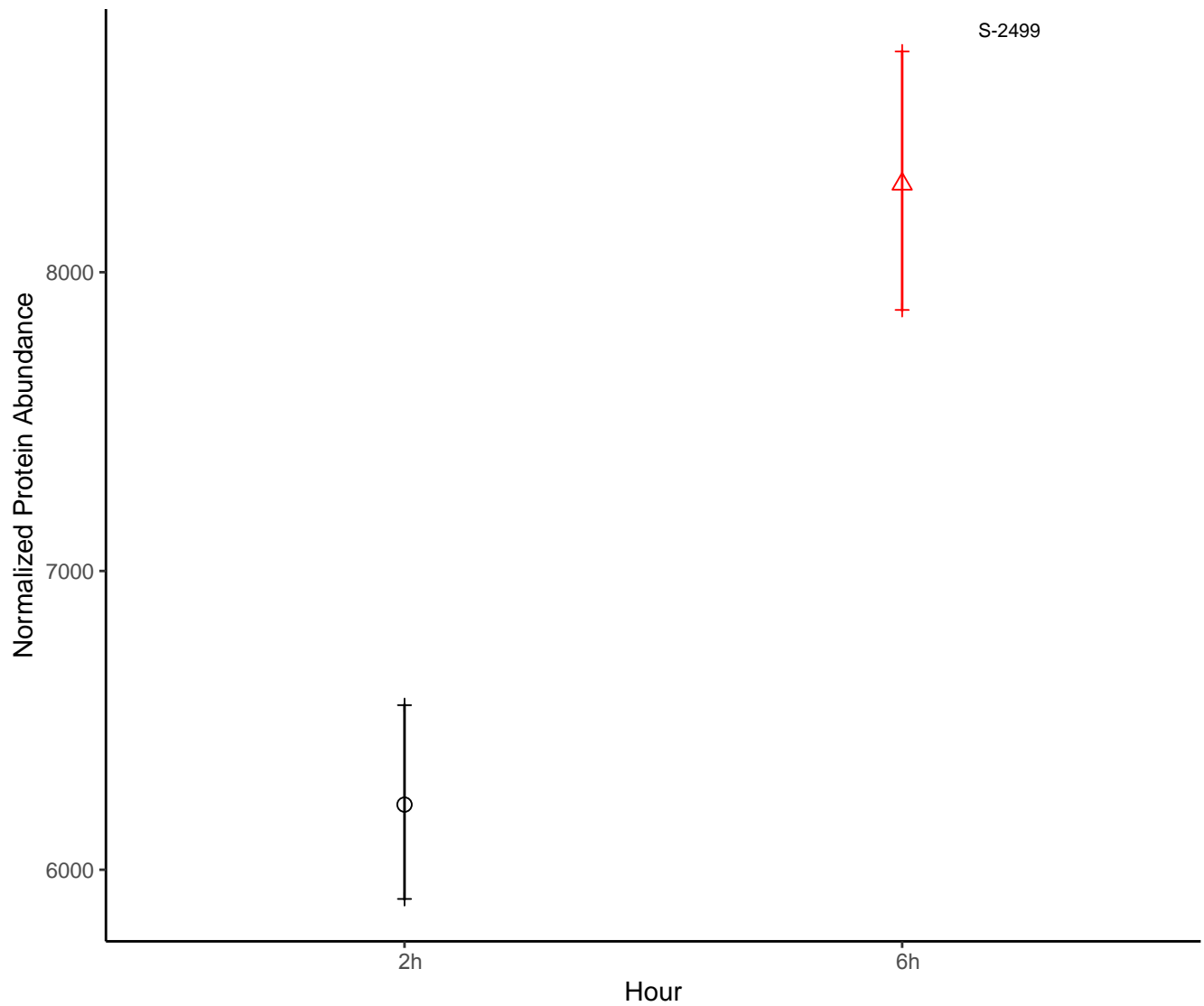
# Y2581\_STAAM



⊕ 2h

△ 6h

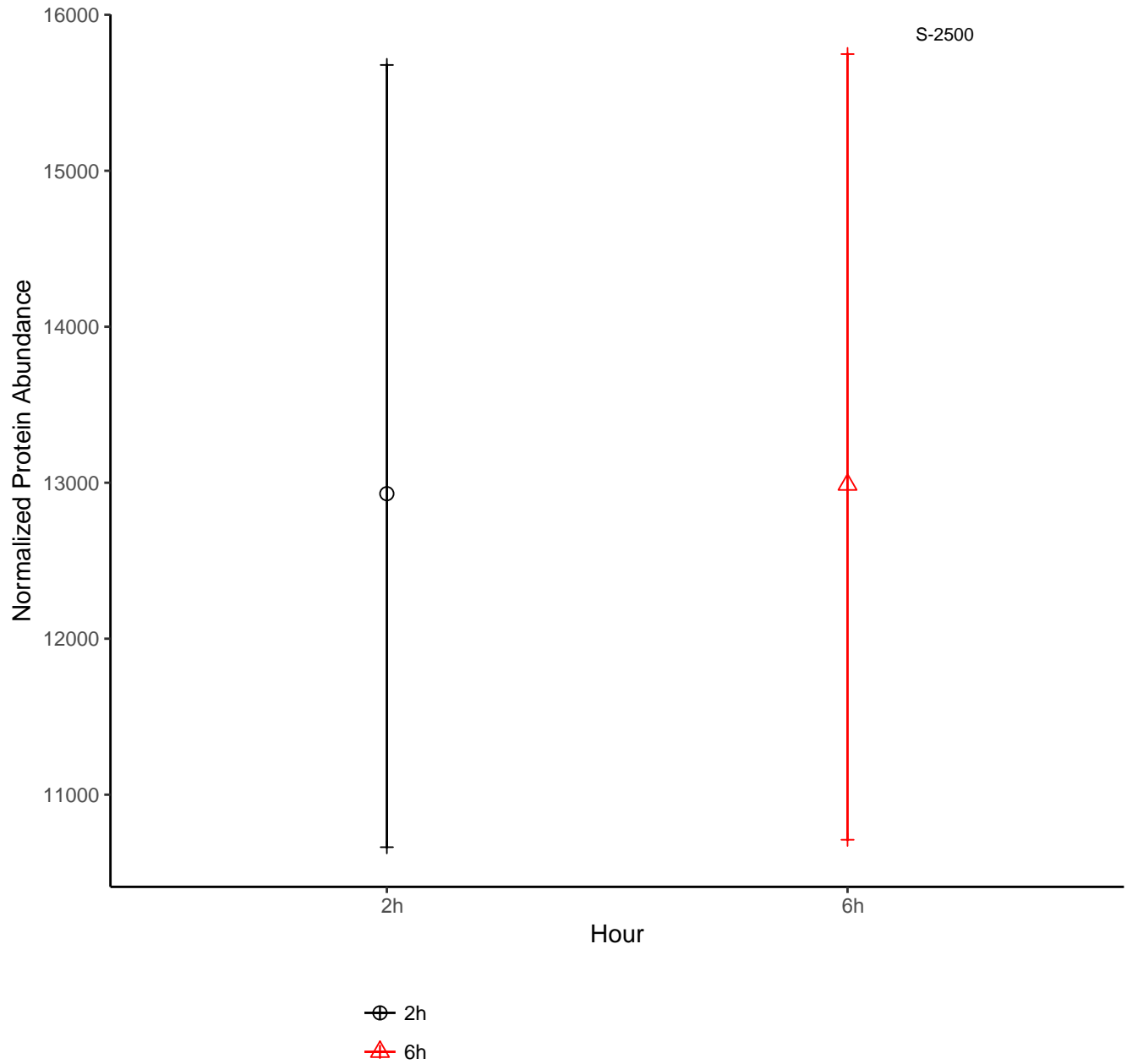
# Y2627\_STAAM



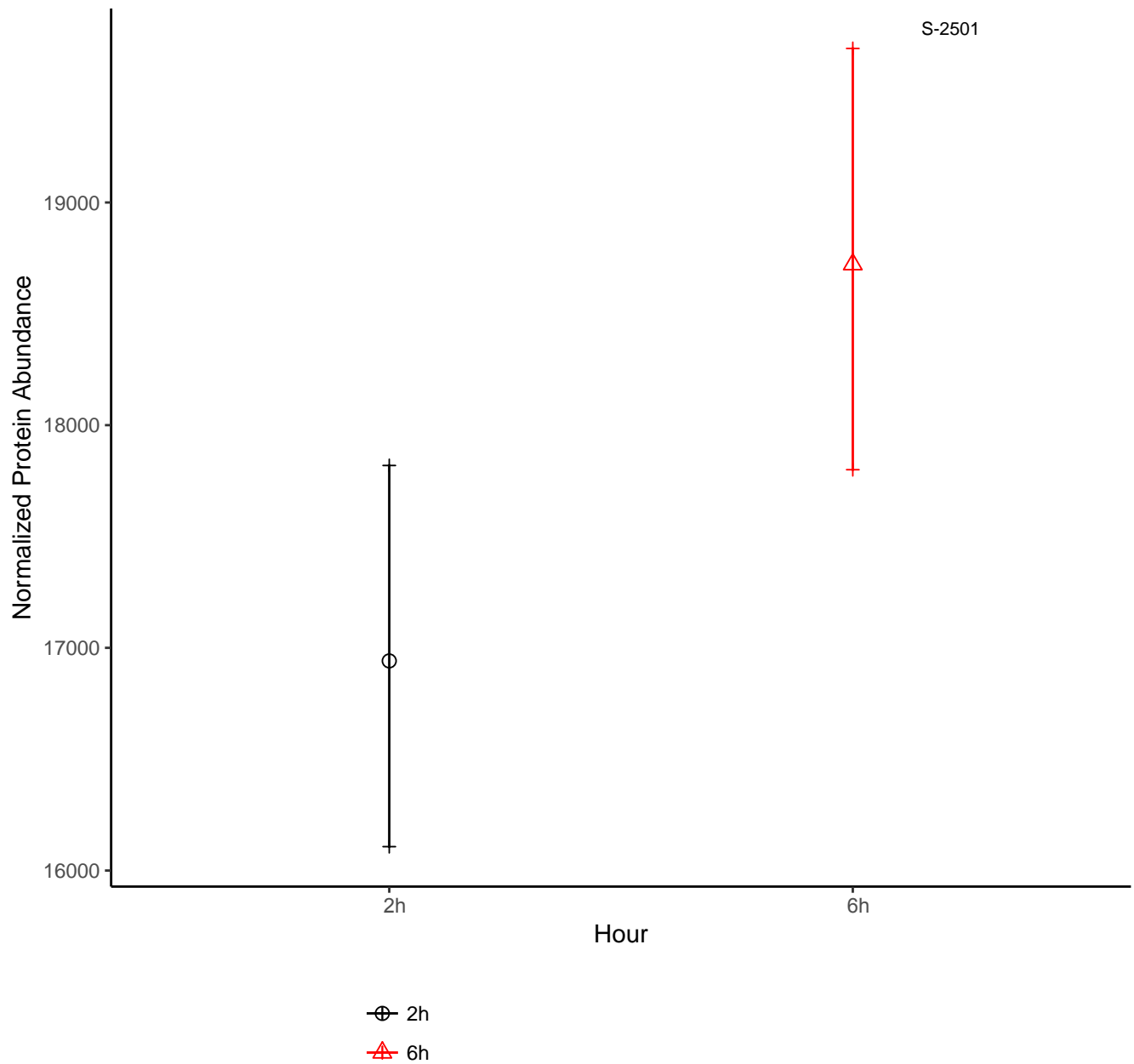
⊕ 2h

△ 6h

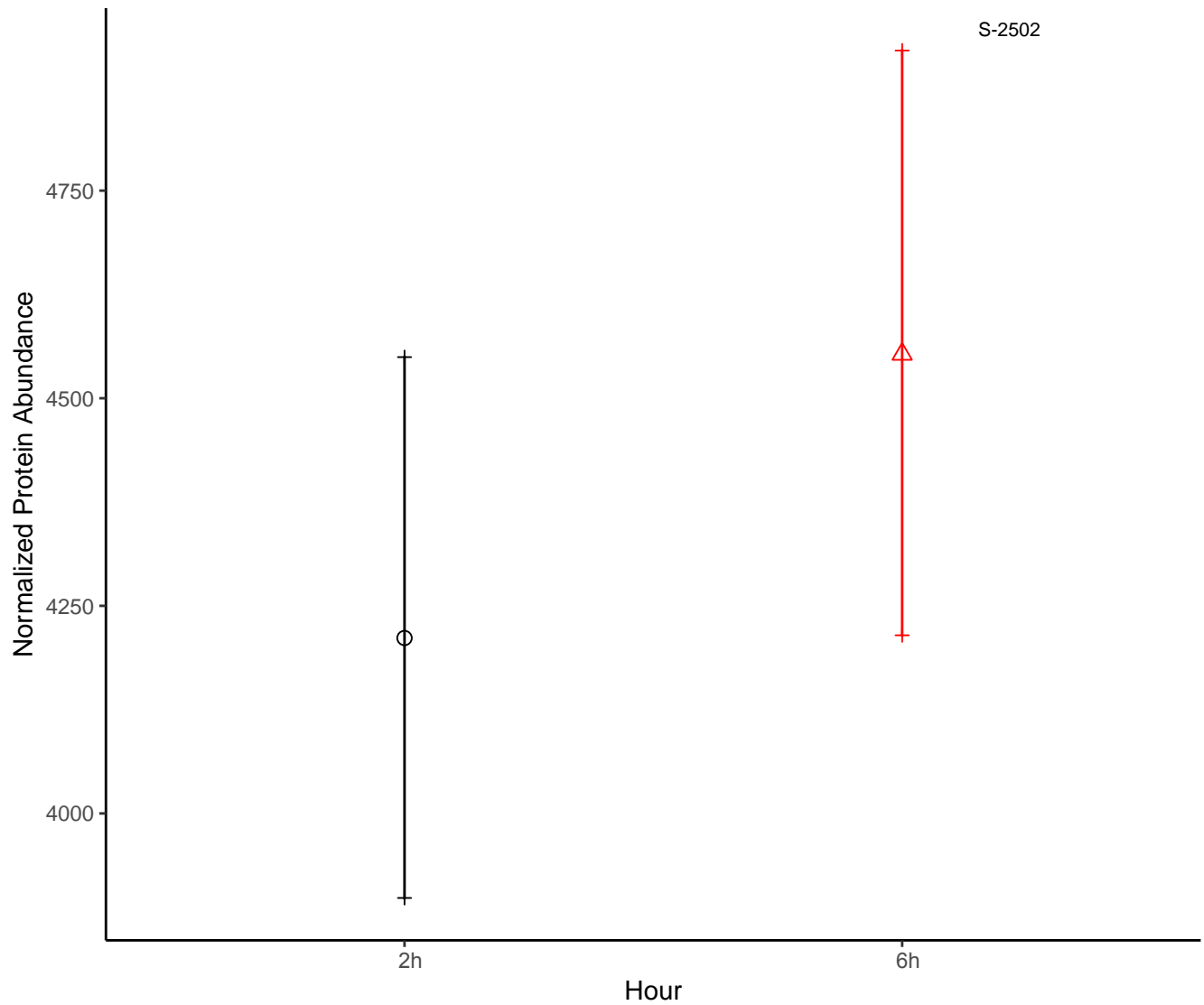
# Y2687\_STAAM



# Y2689\_STAAM



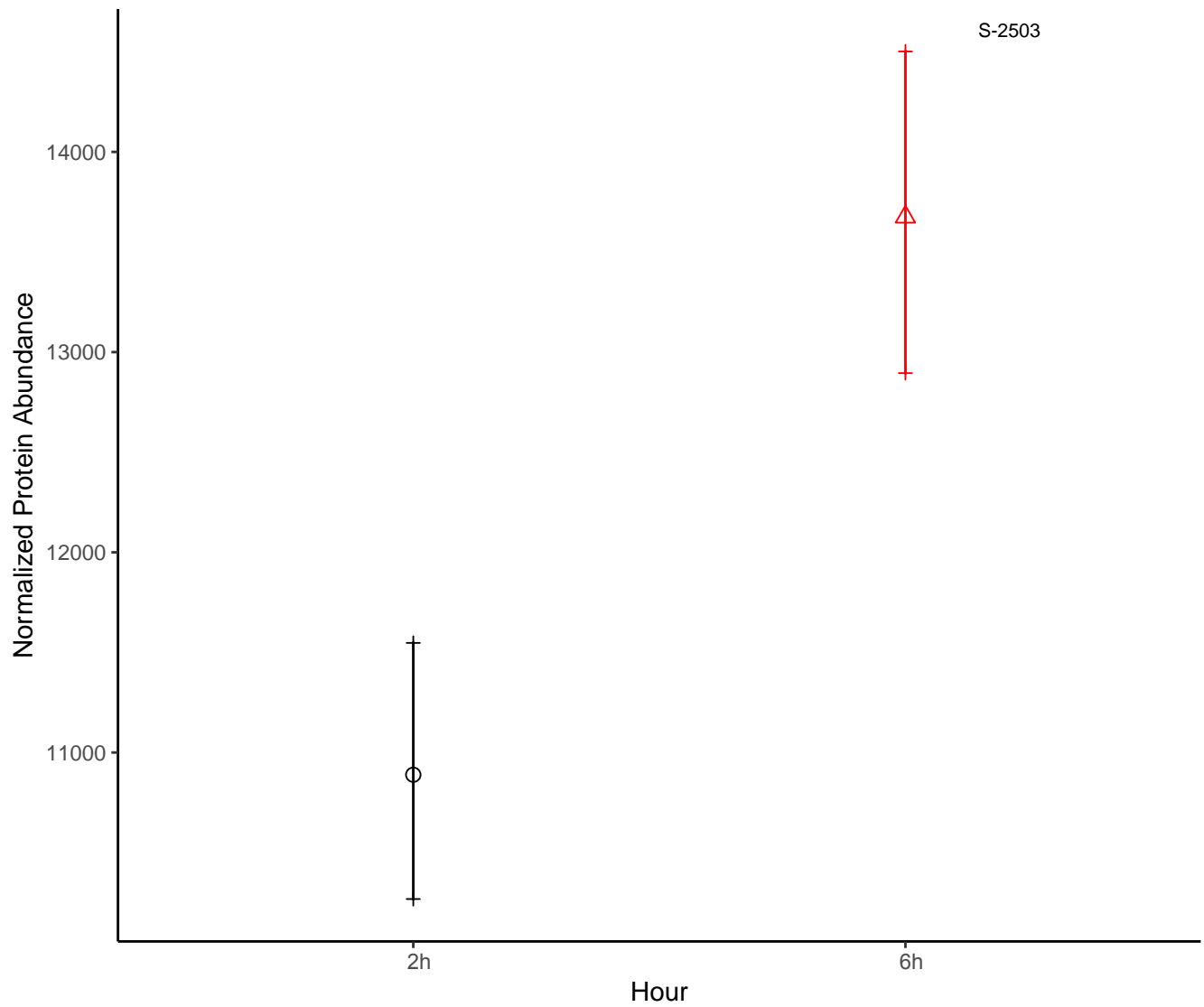
# Y385\_STAAM



⊕ 2h

△ 6h

# Y437\_STAAM

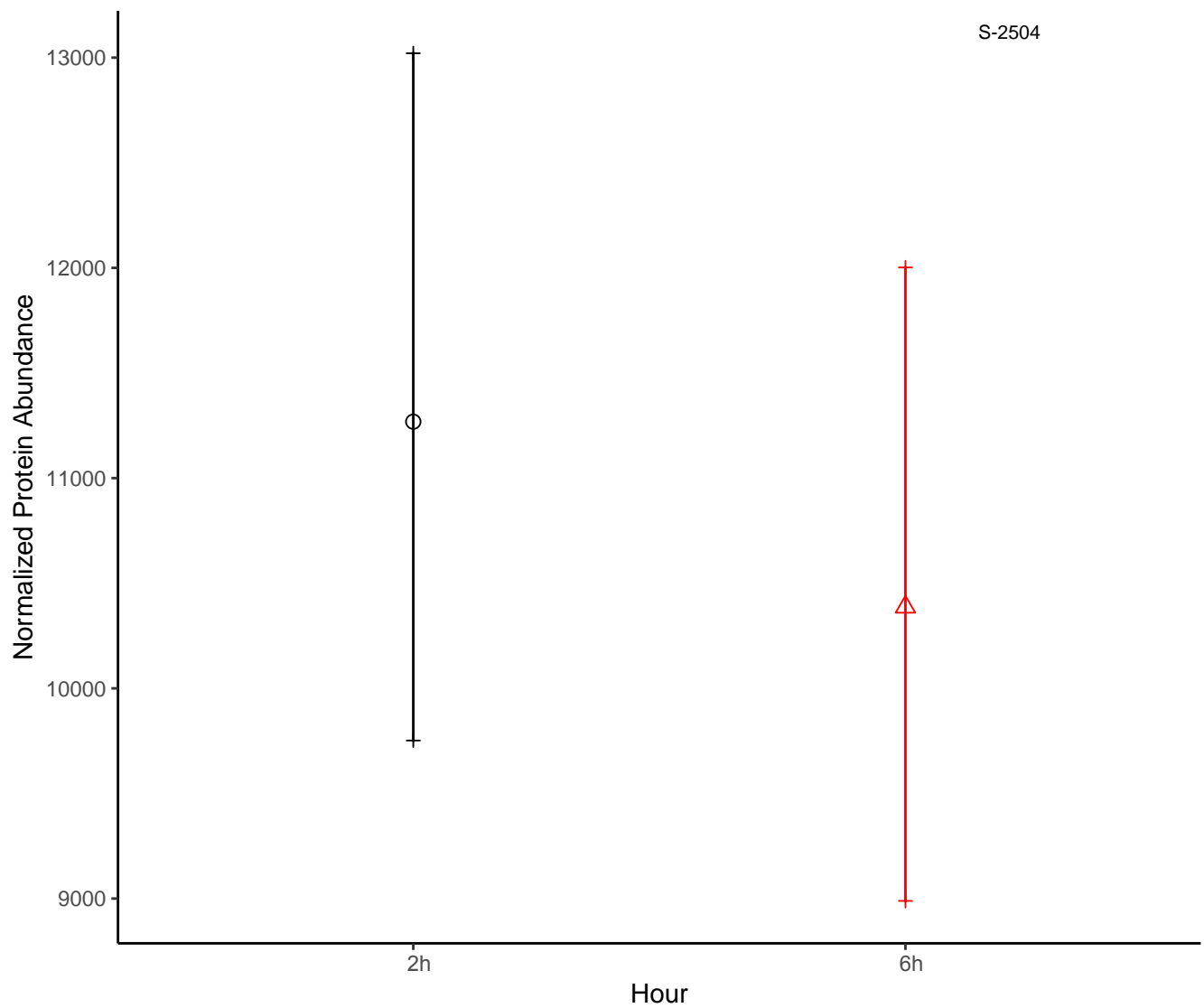


⊕ 2h

△ 6h

# Y479\_STAAM

S-2504



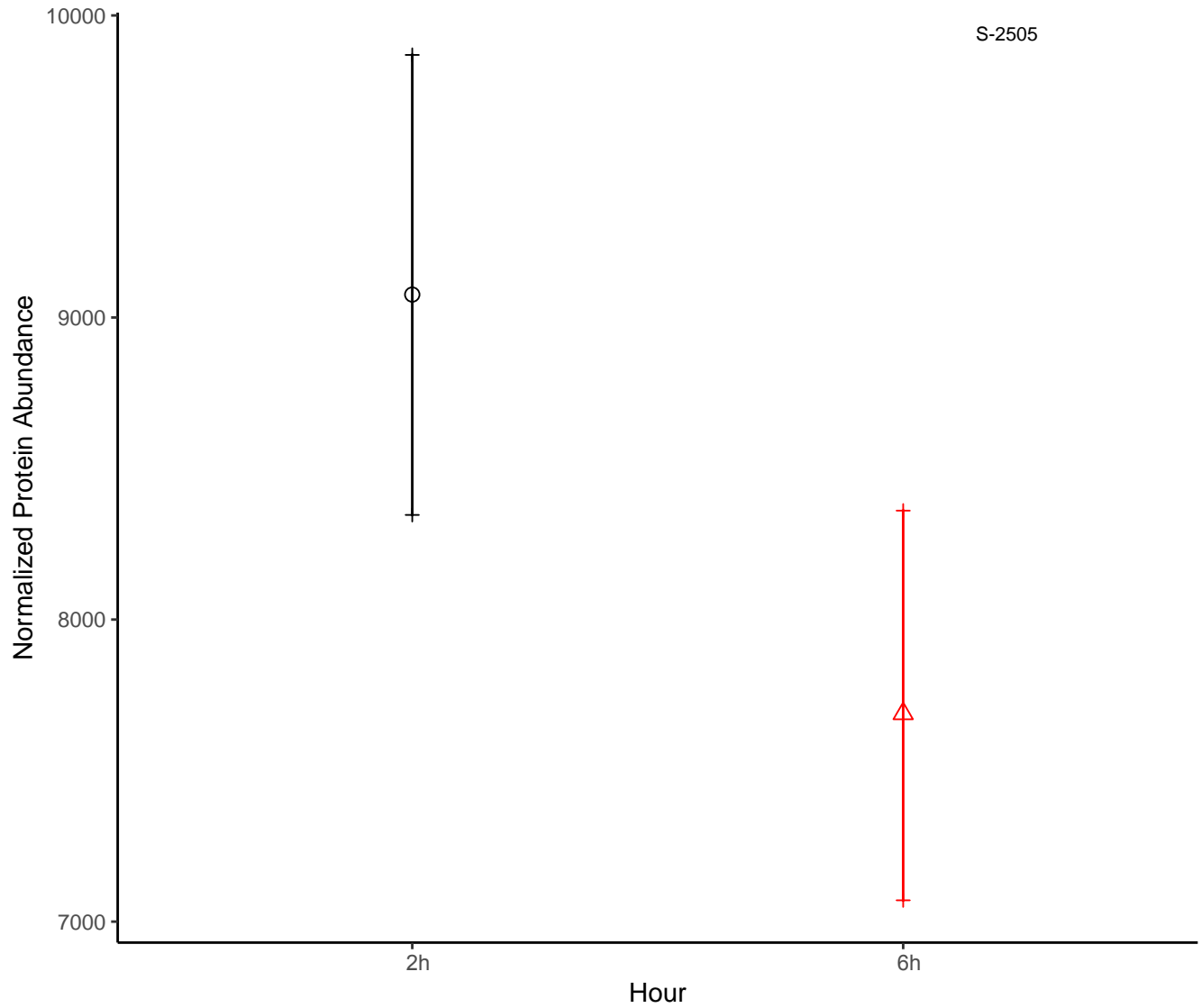
⊕ 2h

△ 6h



# Y553\_STAAM

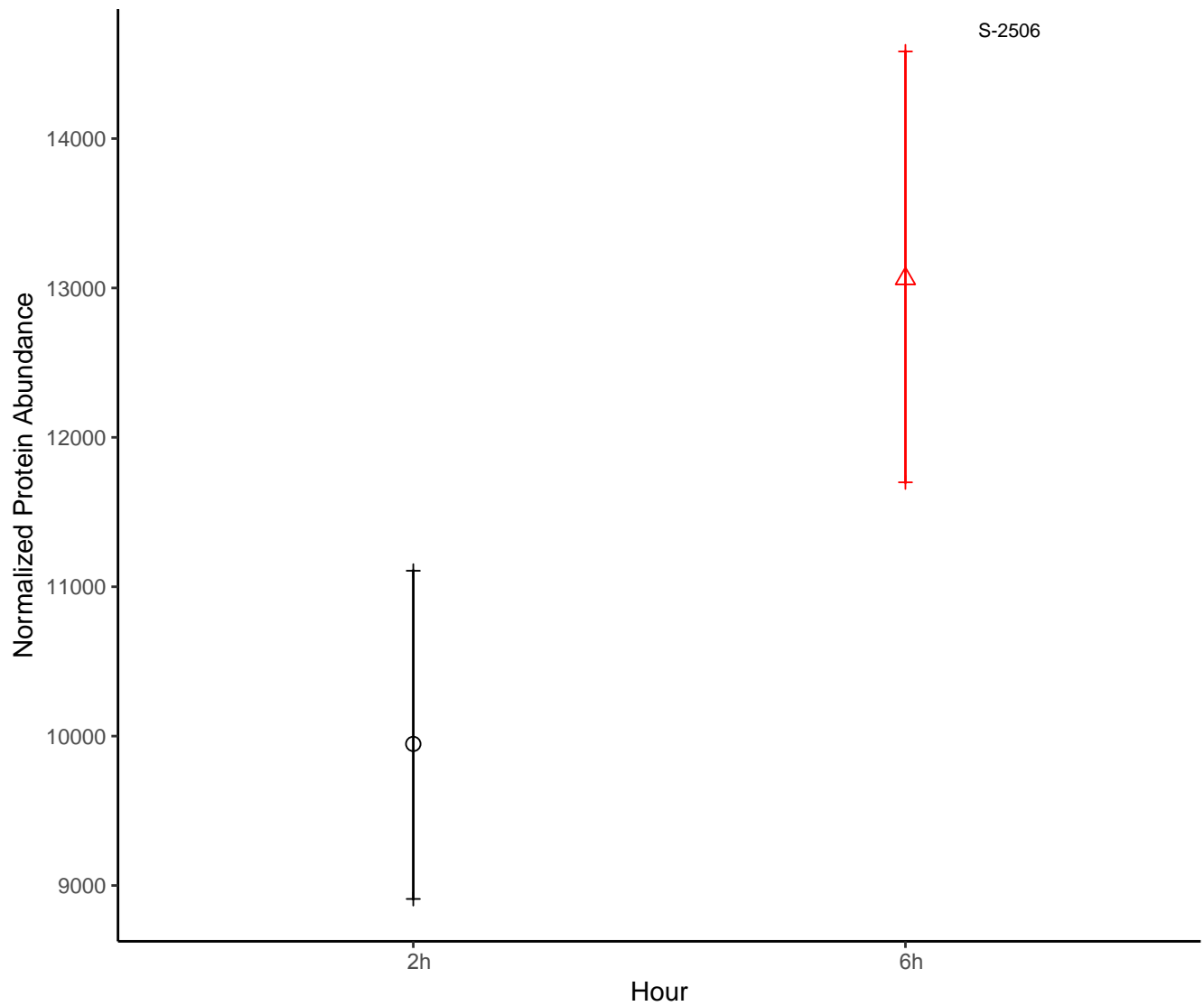
S-2505



⊕ 2h

△ 6h

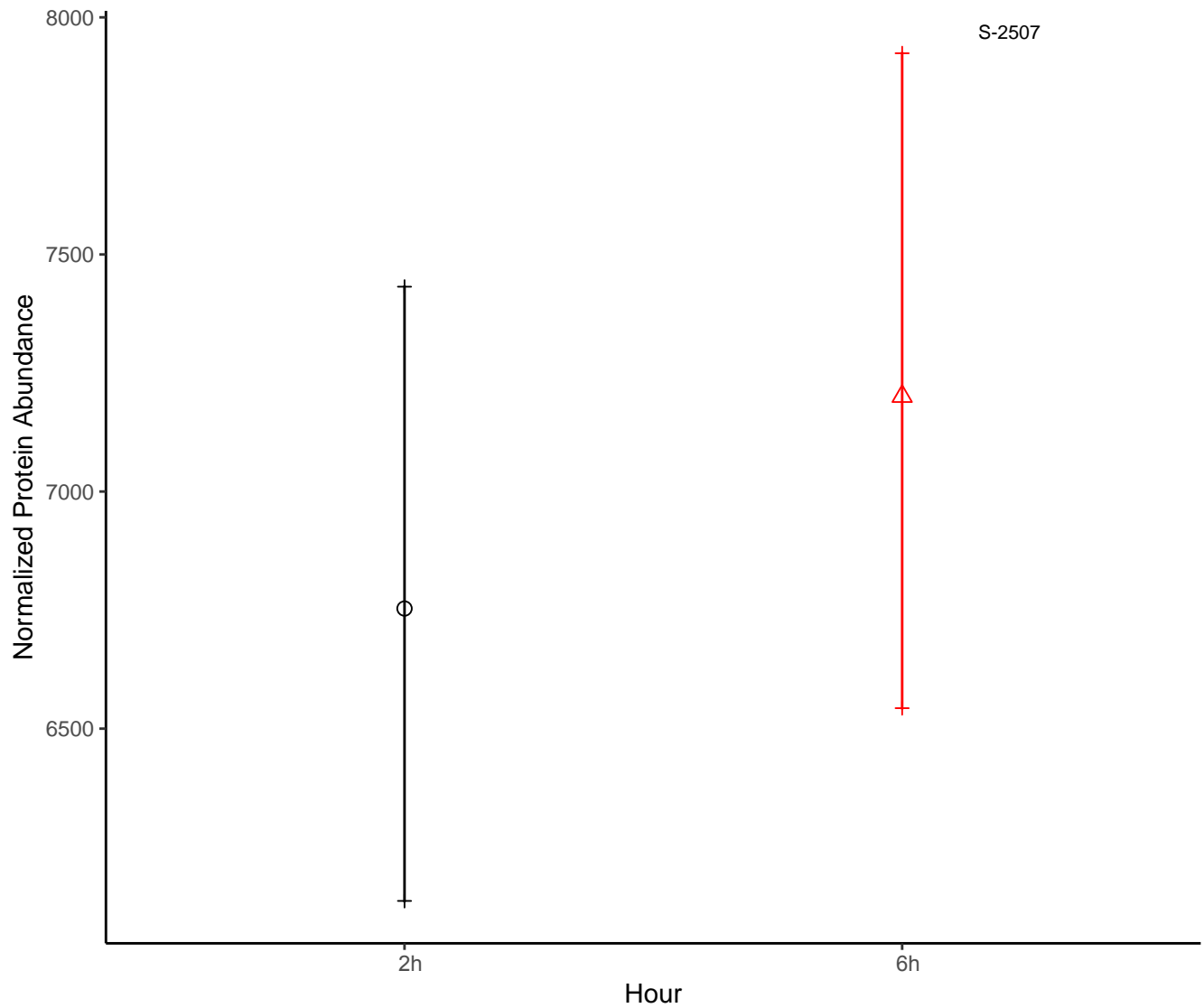
# Y587\_STAAM



⊕ 2h

△ 6h

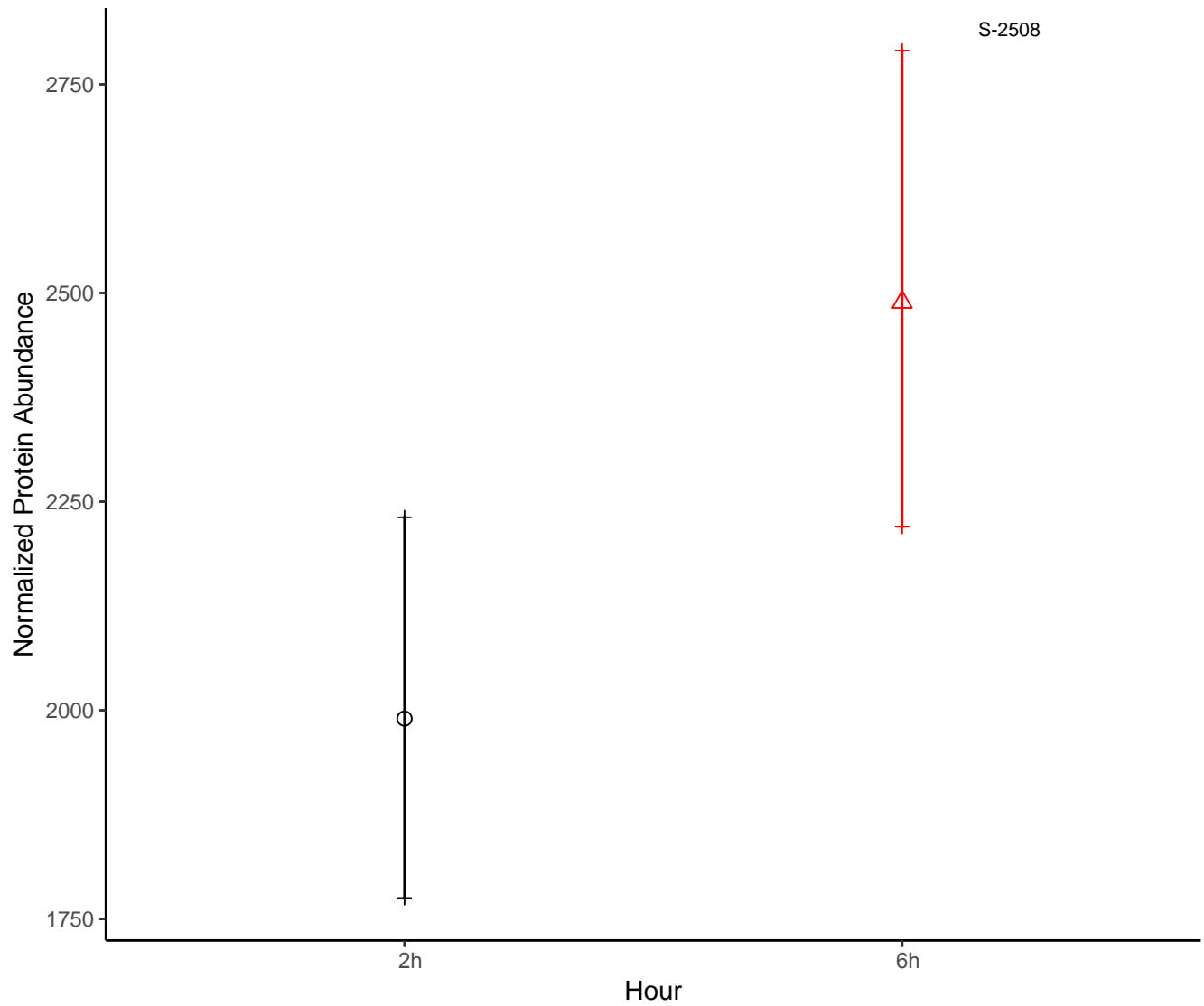
# Y669\_STAAM



⊕ 2h

△ 6h

# Y752\_STAAM

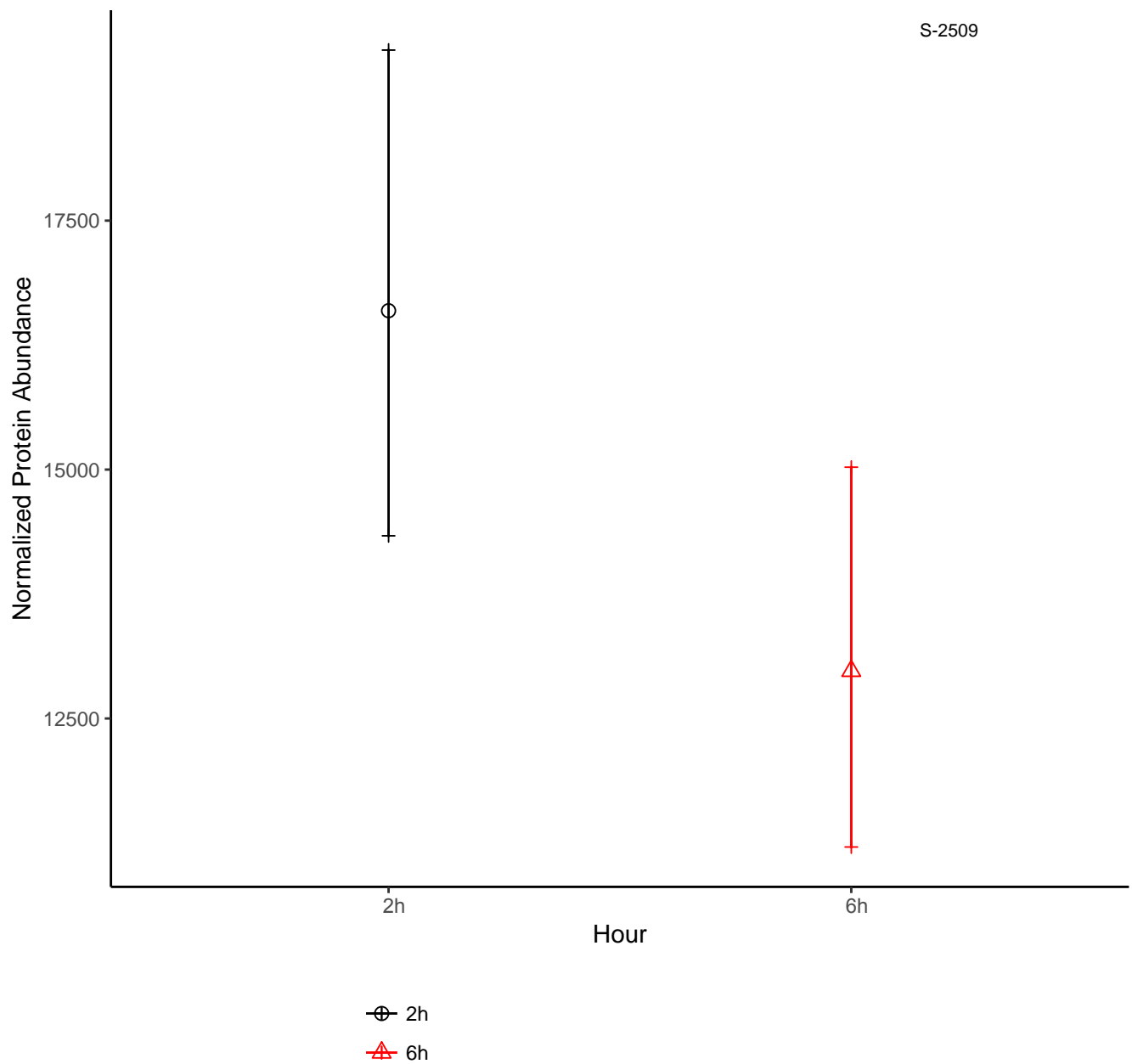


⊕ 2h

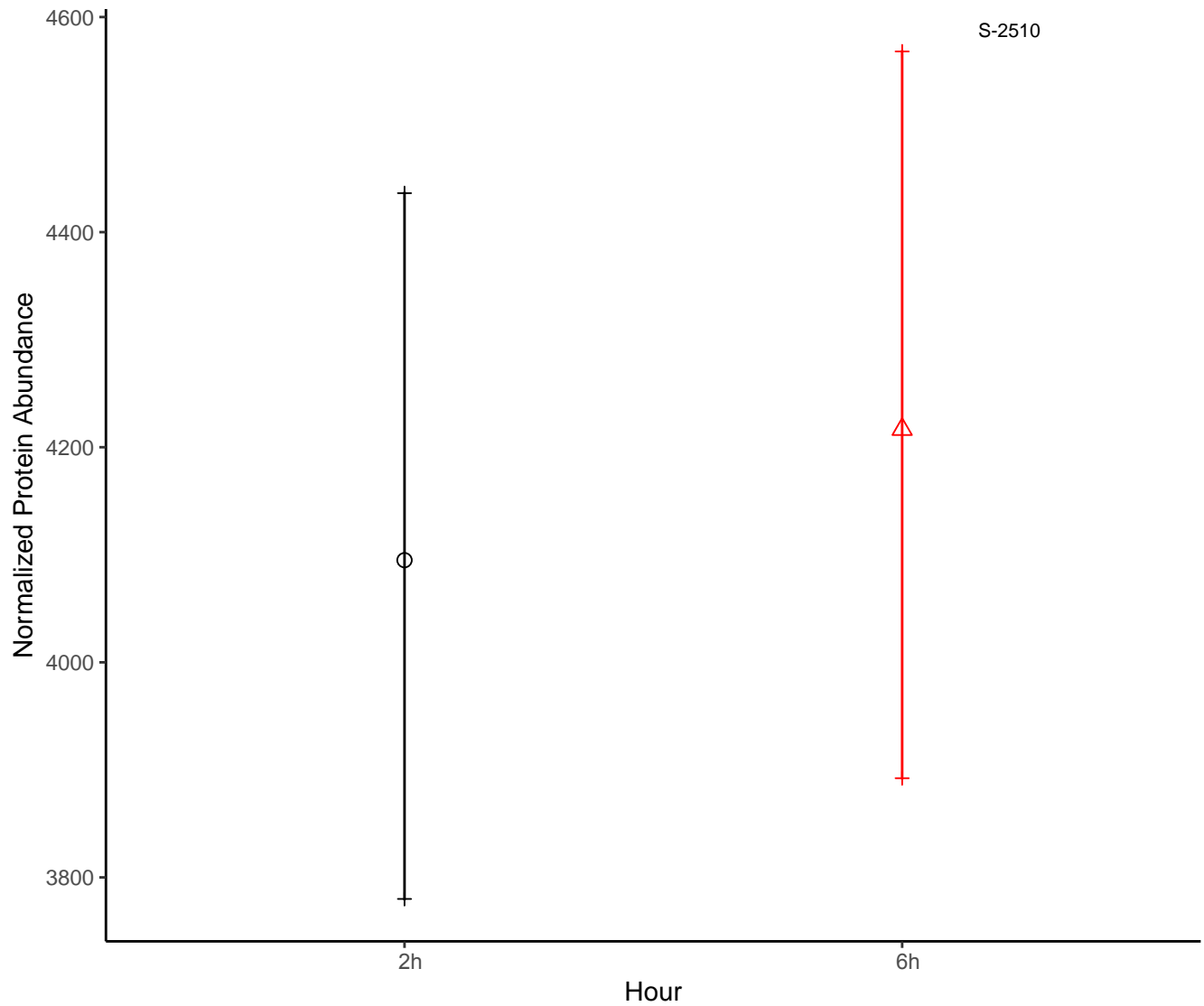
△ 6h

# Y765\_STAAM

S-2509



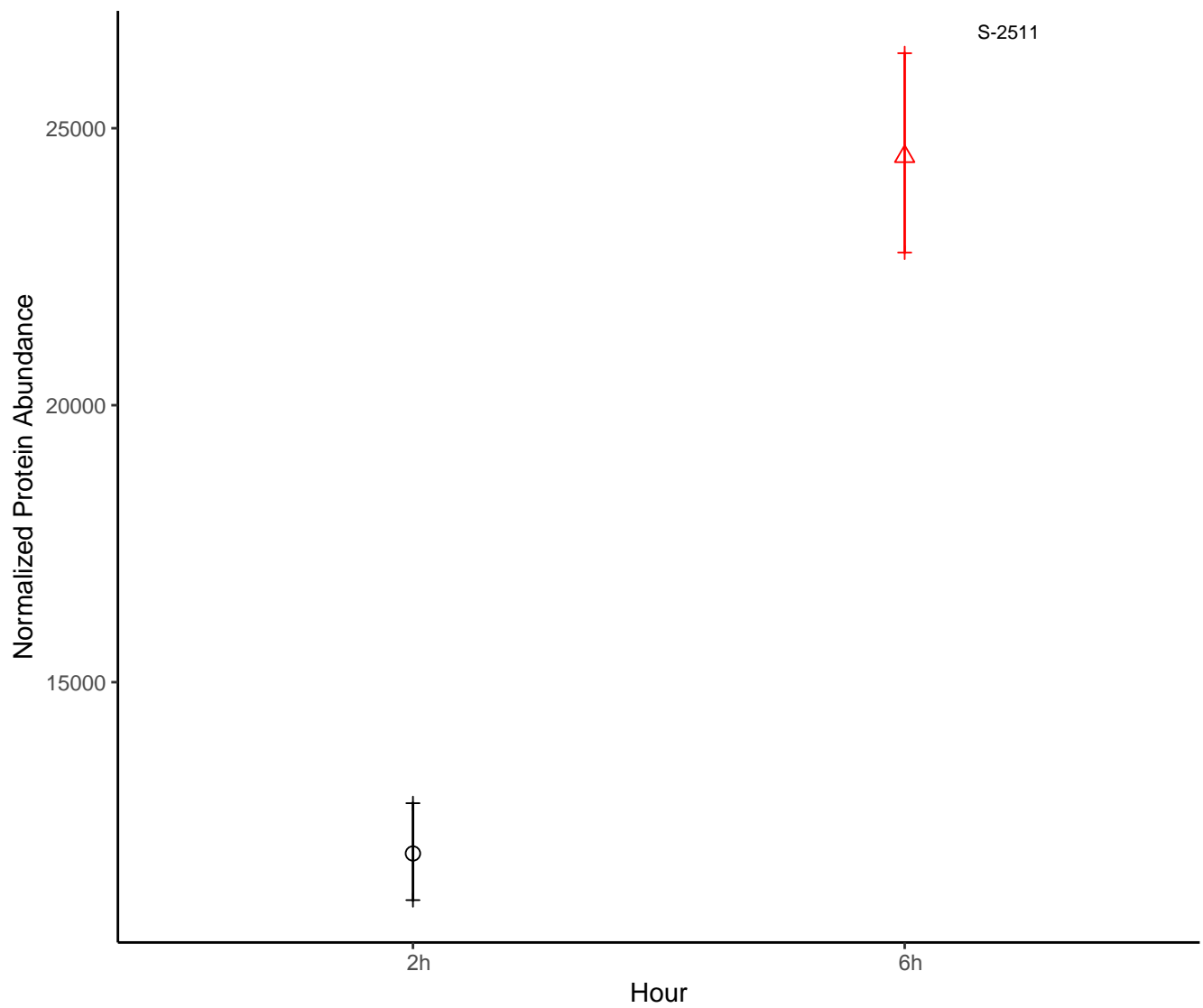
# Y769\_STAAM



⊕ 2h

△ 6h

# Y840\_STAAM

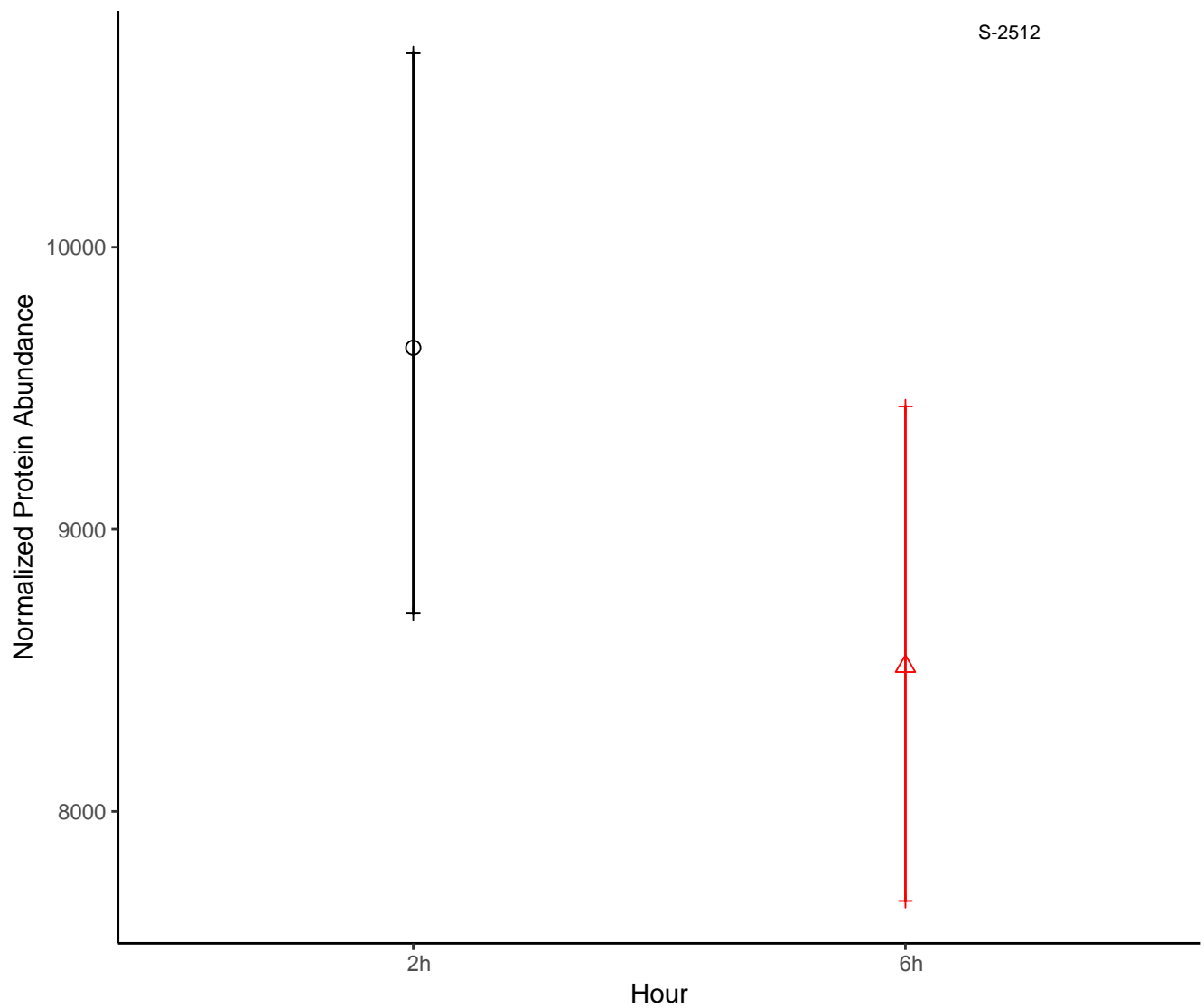


⊕ 2h

△ 6h

# Y846\_STAAM

S-2512



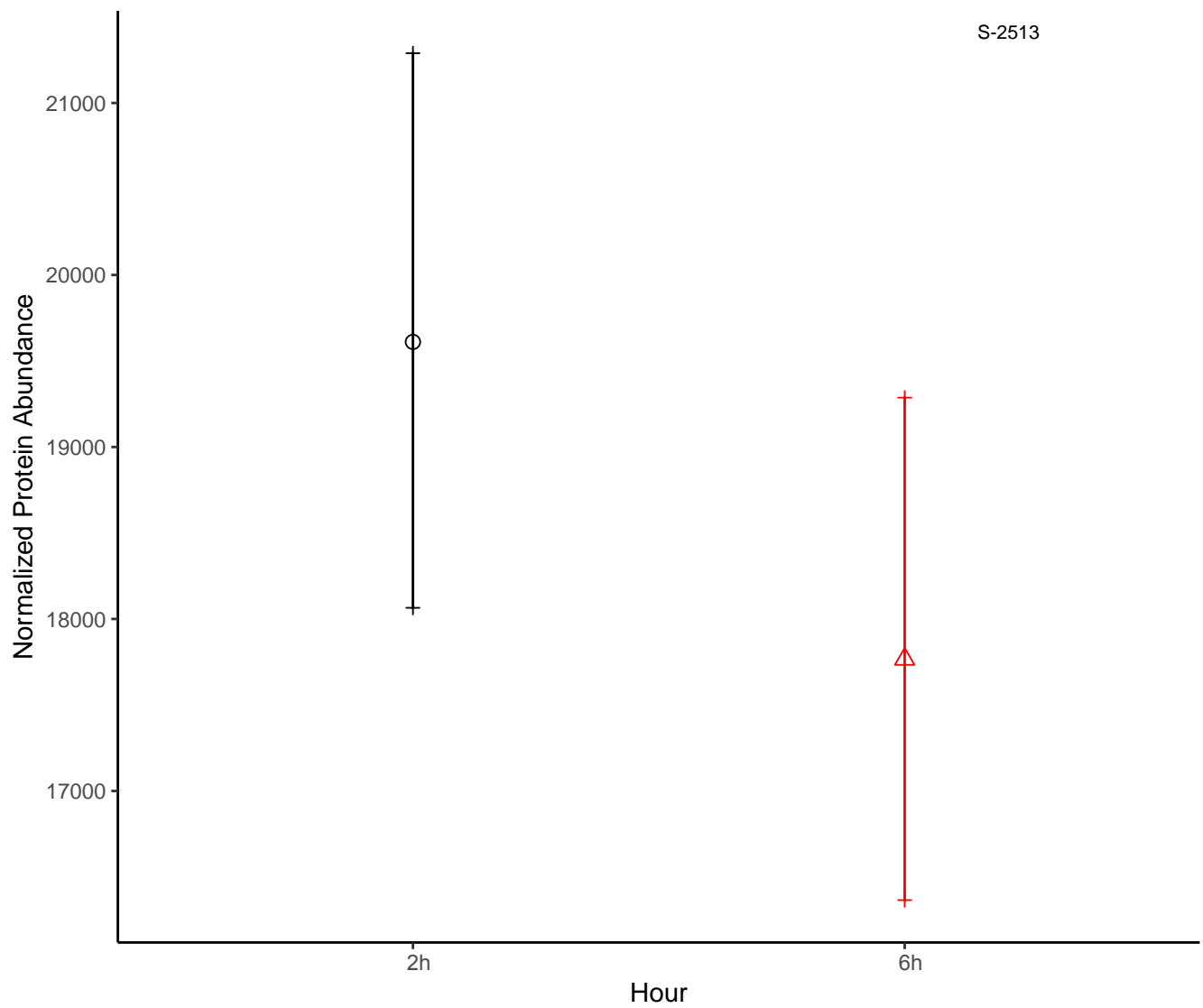
⊕ 2h

△ 6h



# Y941\_STAAM

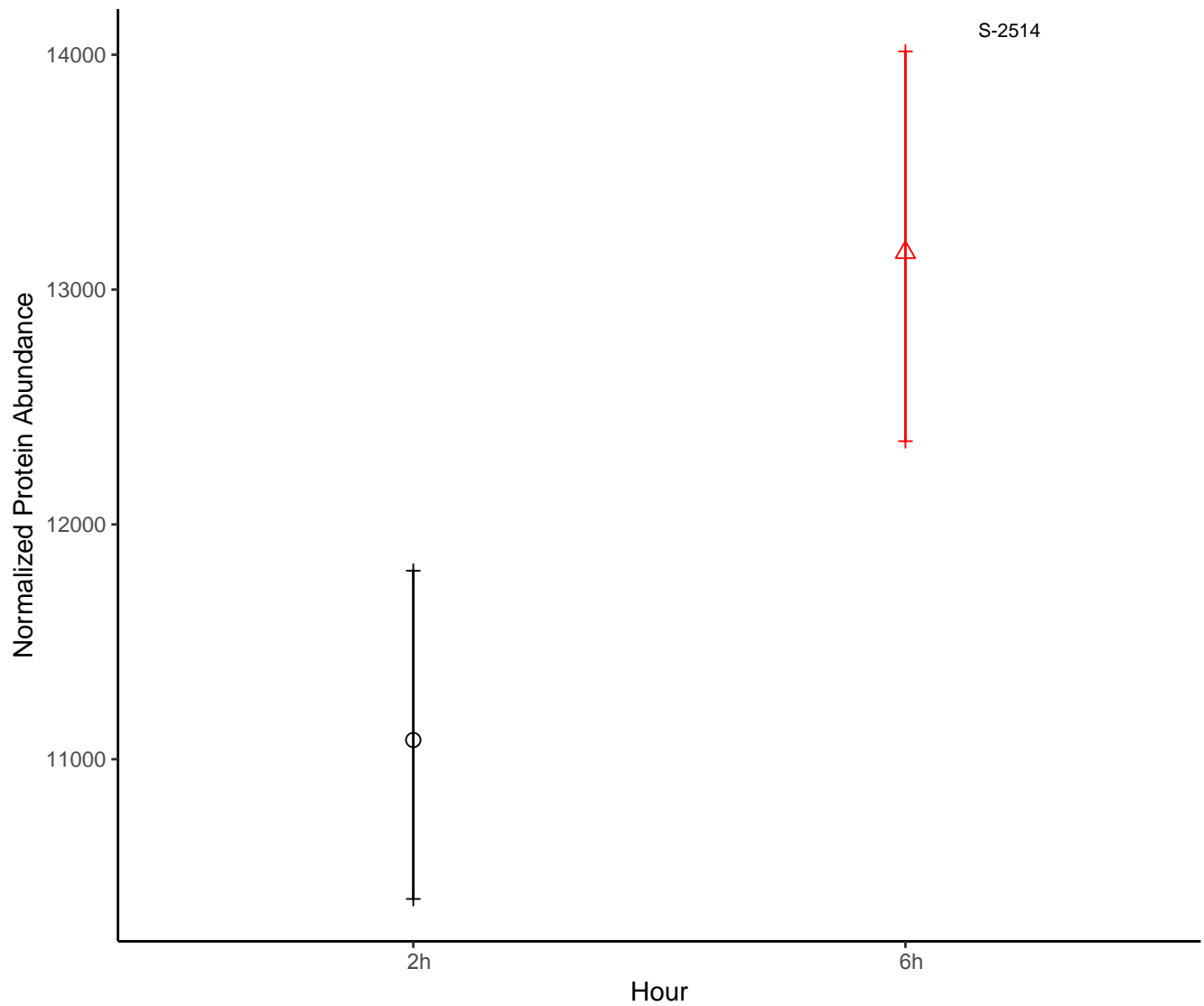
S-2513



⊕ 2h

△ 6h

# Y968\_STAAM

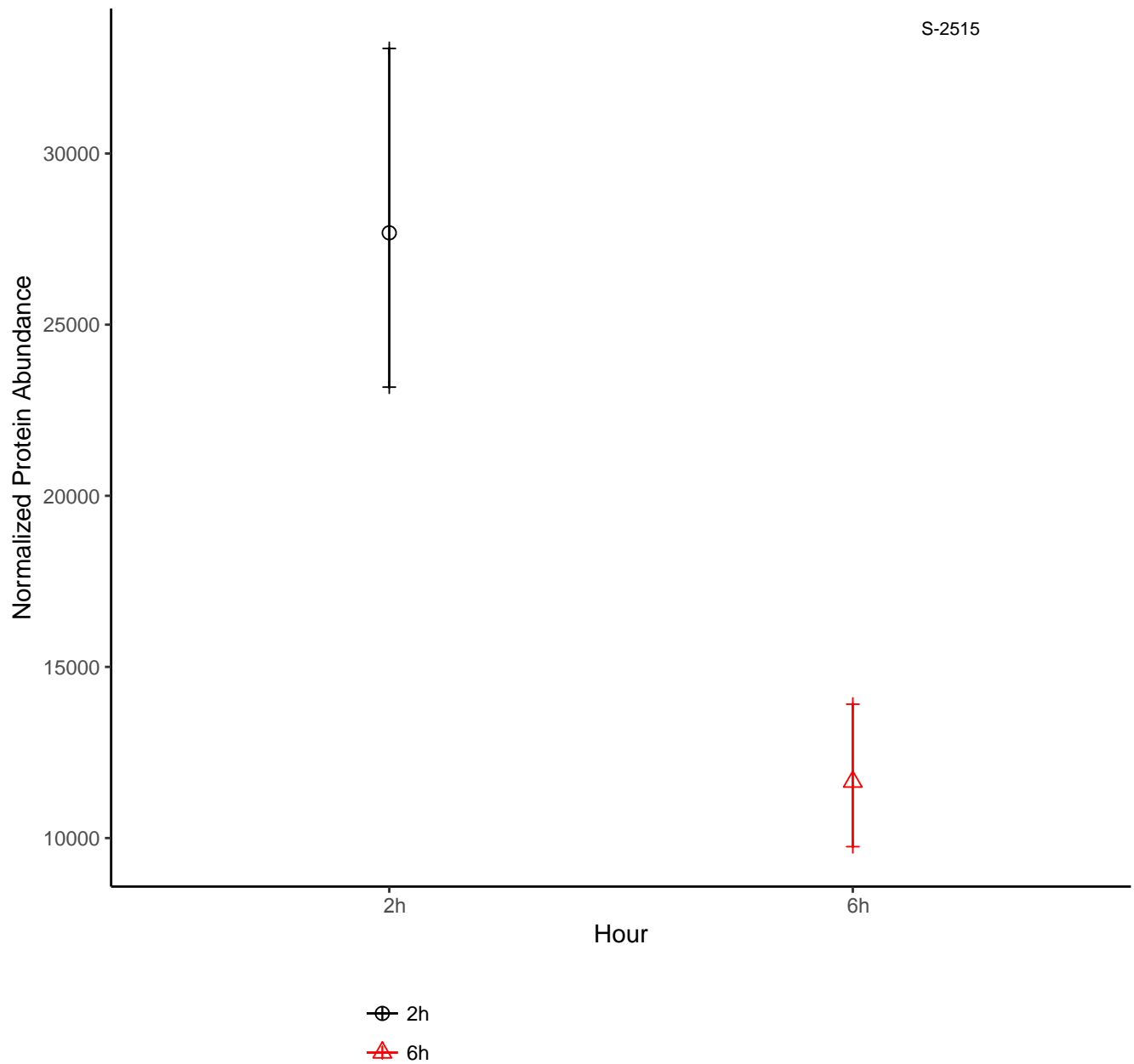


⊕ 2h

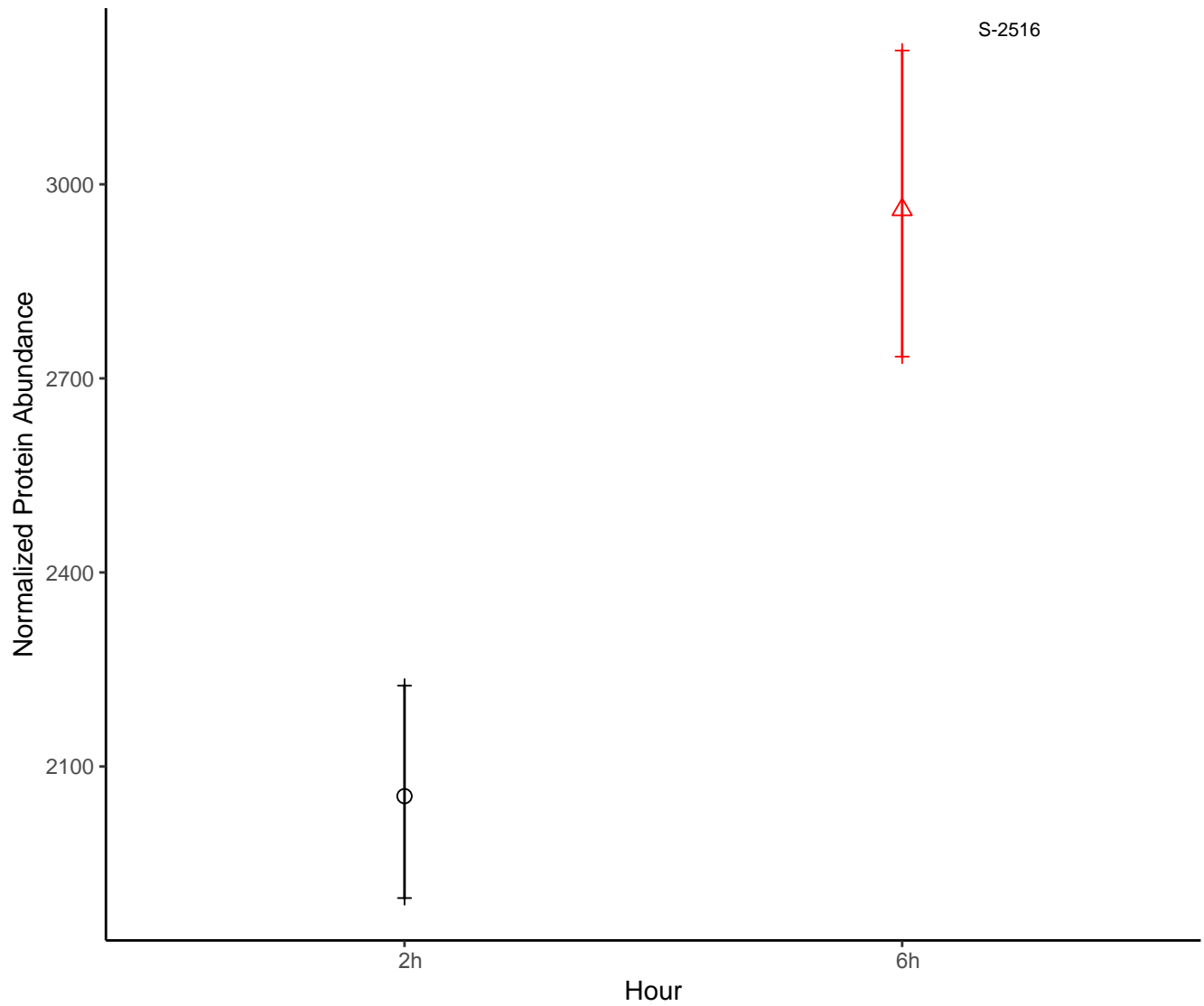
△ 6h

# YABA\_STAAM

S-2515



# YBEY\_STAAM



⊕ 2h

△ 6h

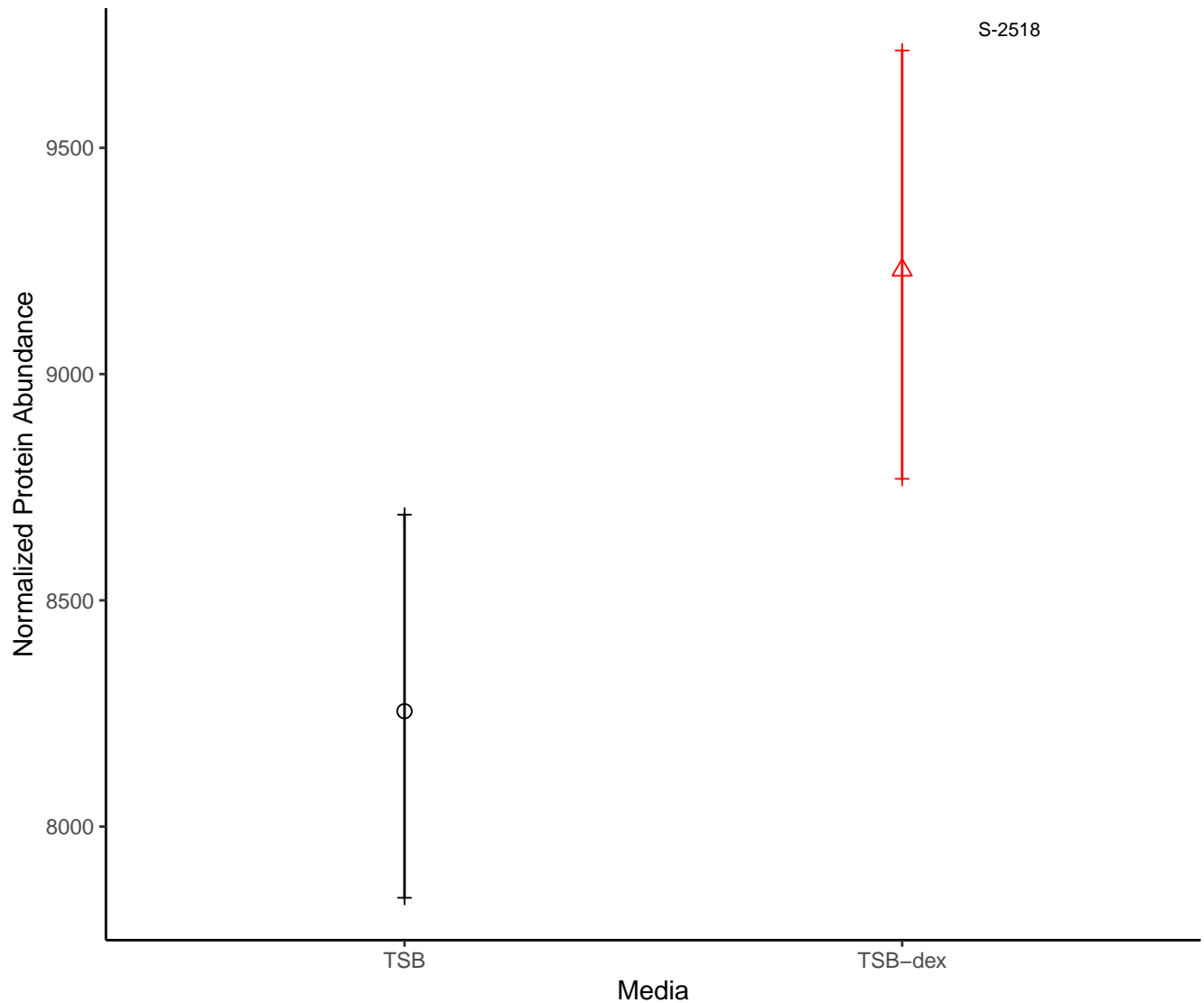
**Figure K.**

1-way analysis: m

Pages: S217-S3018

The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if the 3-way and 2-way interactions were rejected and a significant main effect (1-way) was identified for media.

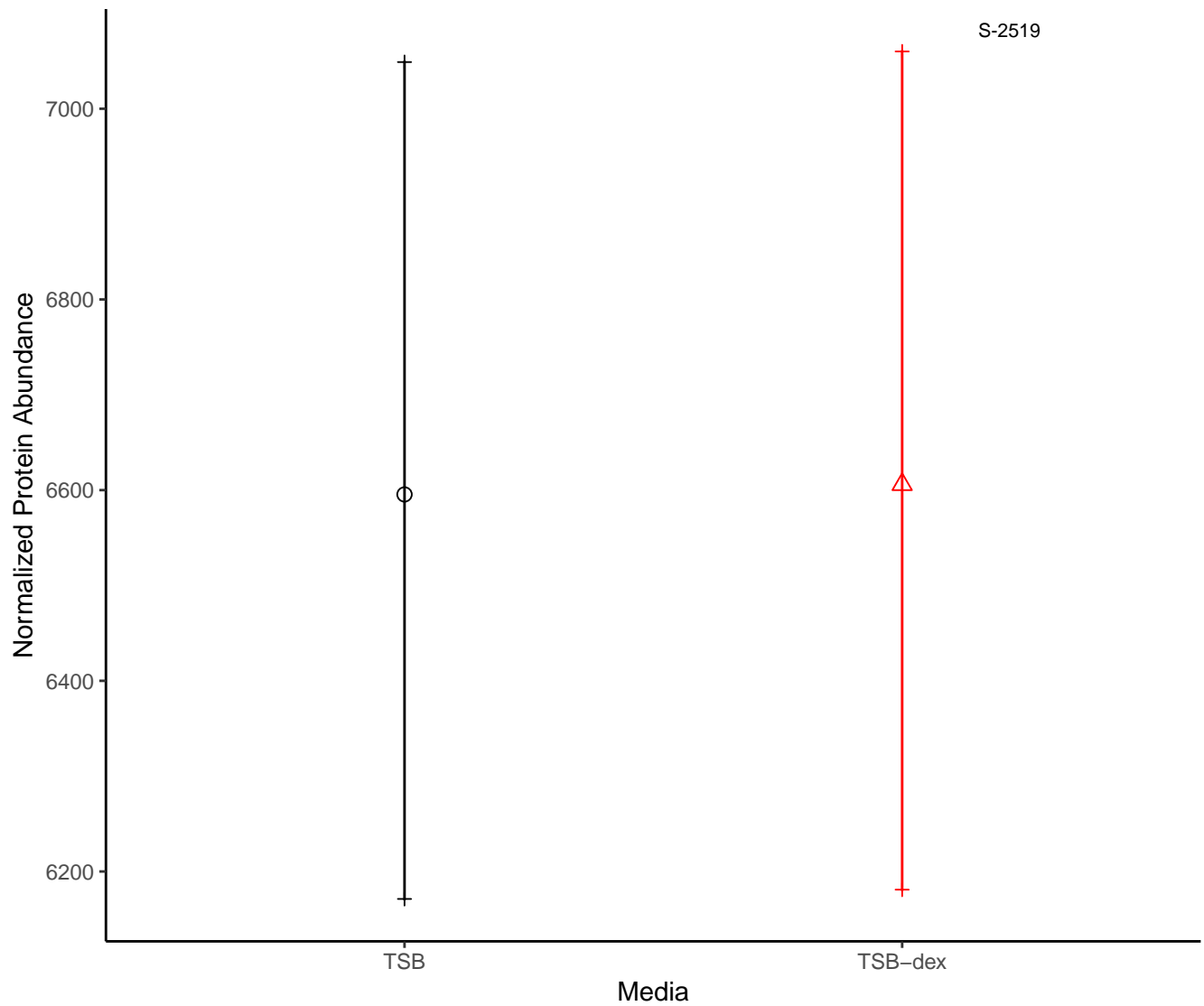
# 6PGD\_STAAM



⊕ TSB-dex

△ TSB

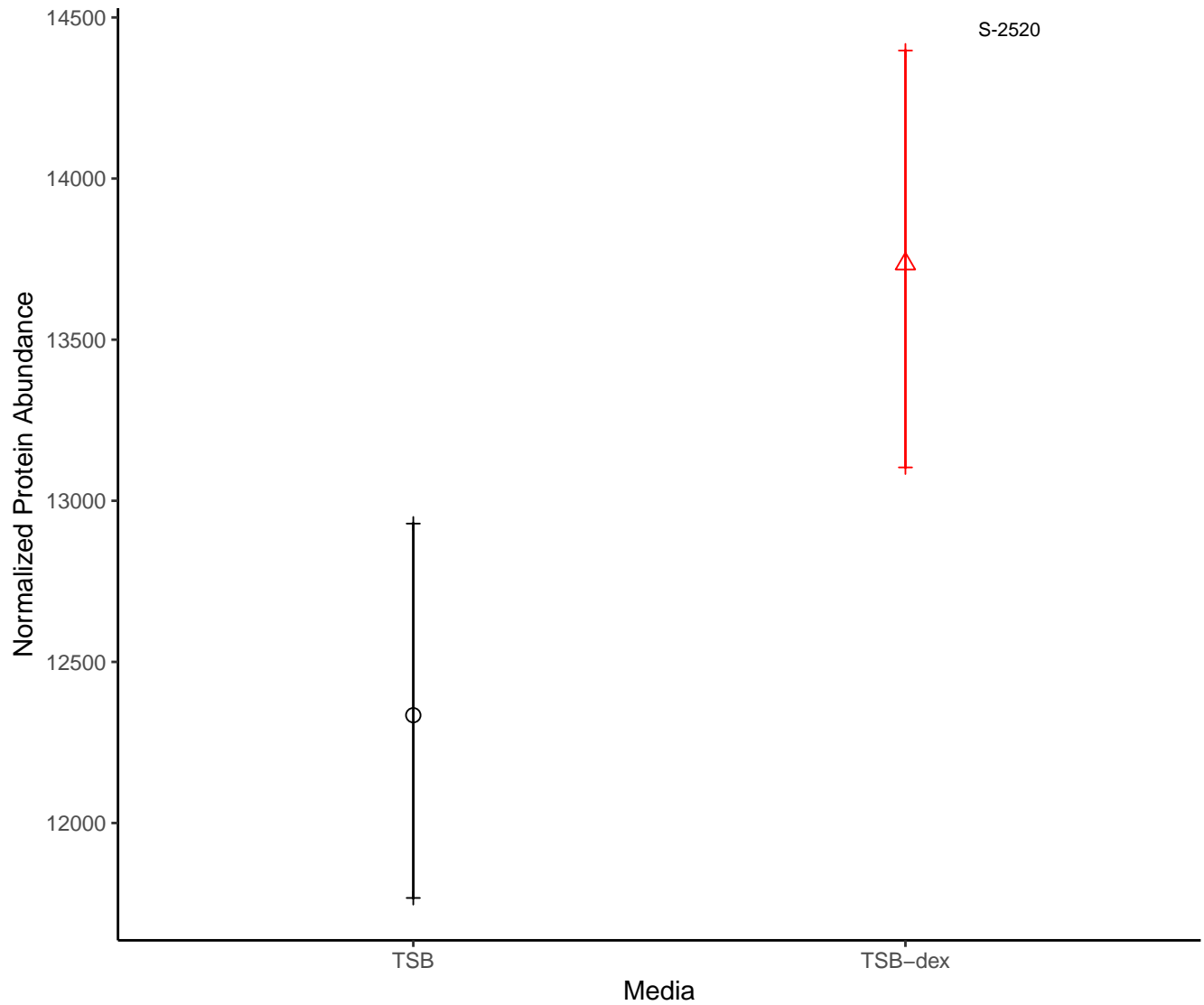
# ACCA\_STAAM



⊕ TSB-dex

△ TSB

# ACKA\_STAAM



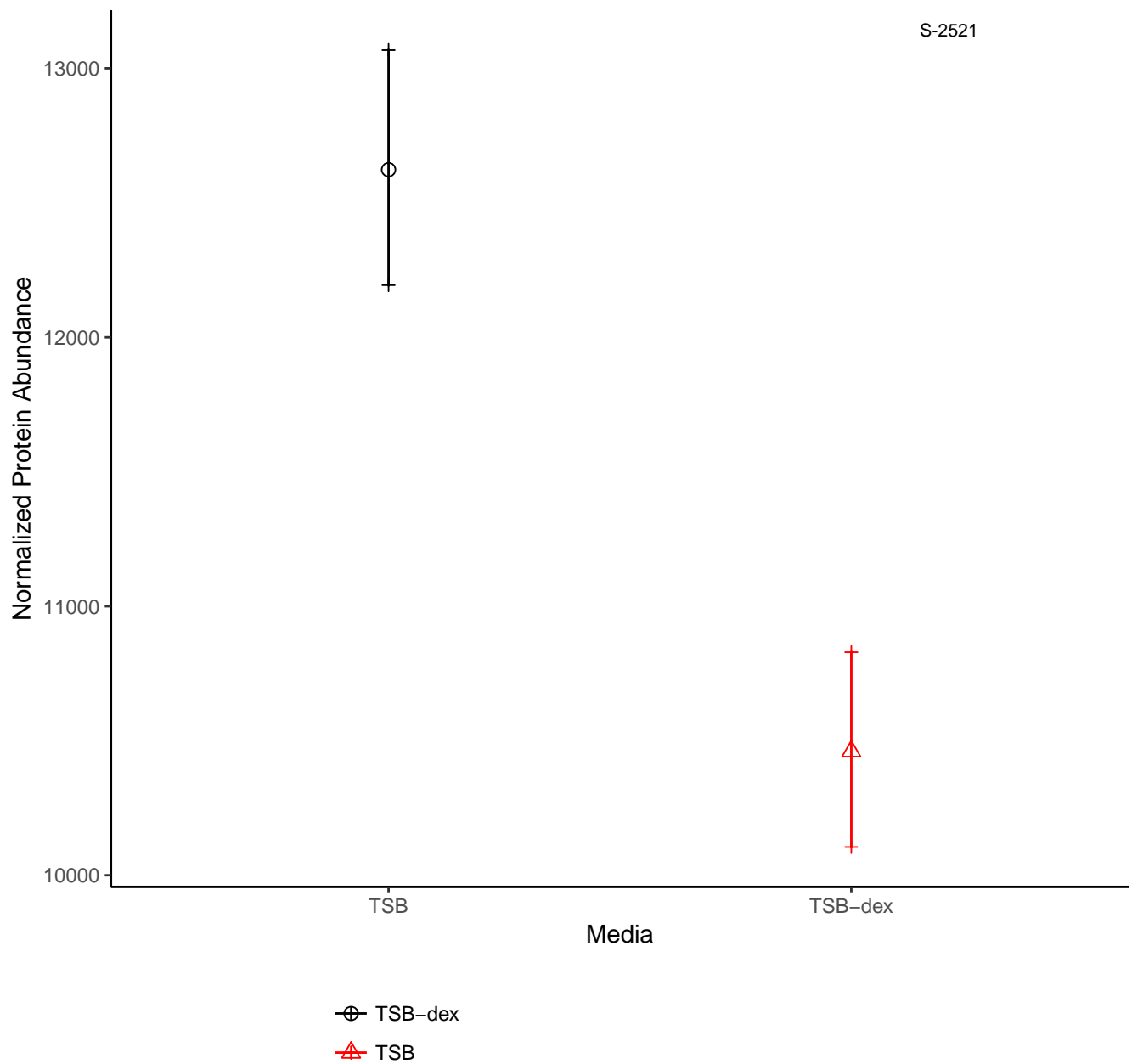
⊖ TSB-dex

△ TSB

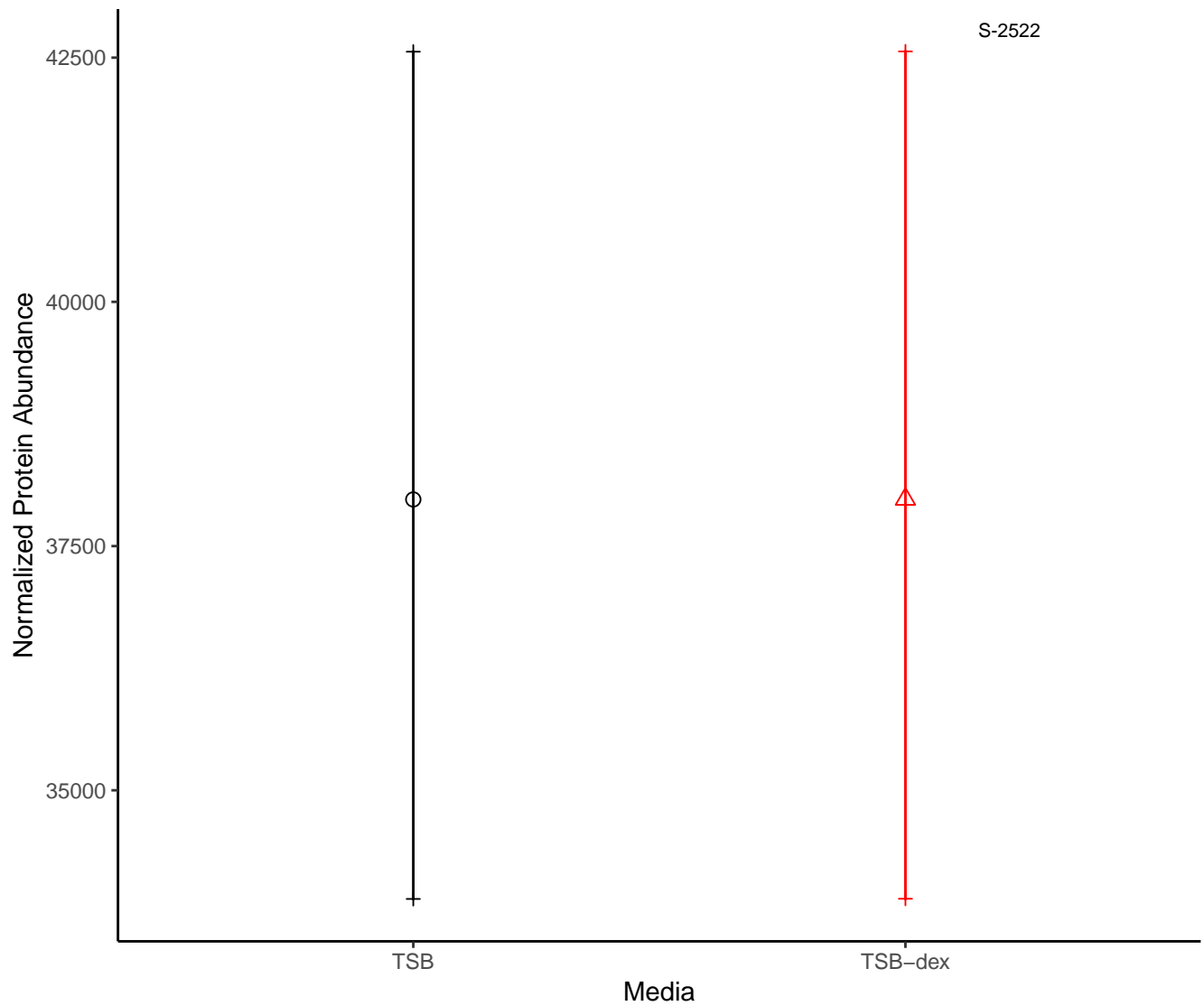


# ACON\_STAAM

S-2521



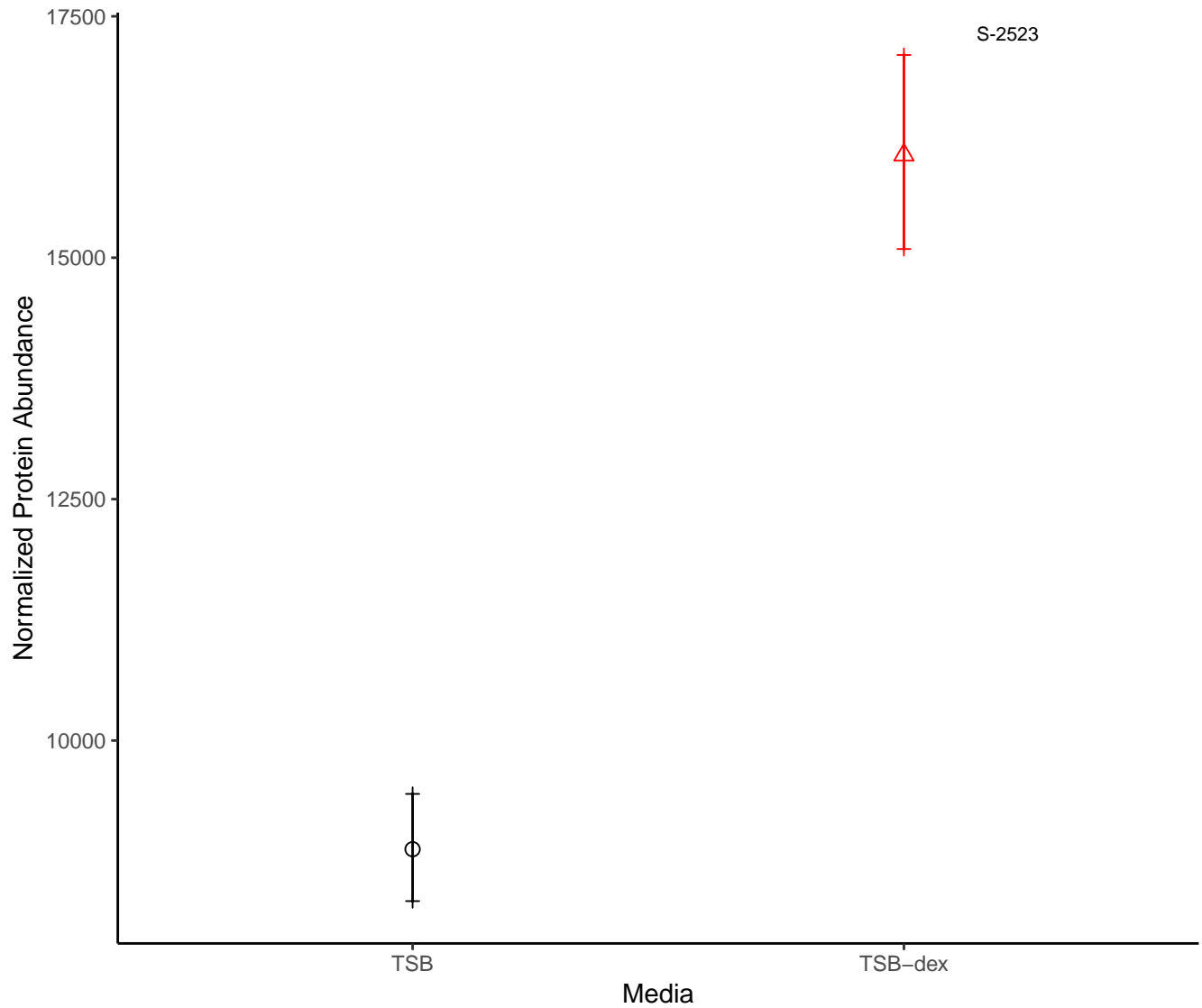
# ACP\_STAAM



⊕ TSB-dex

△ TSB

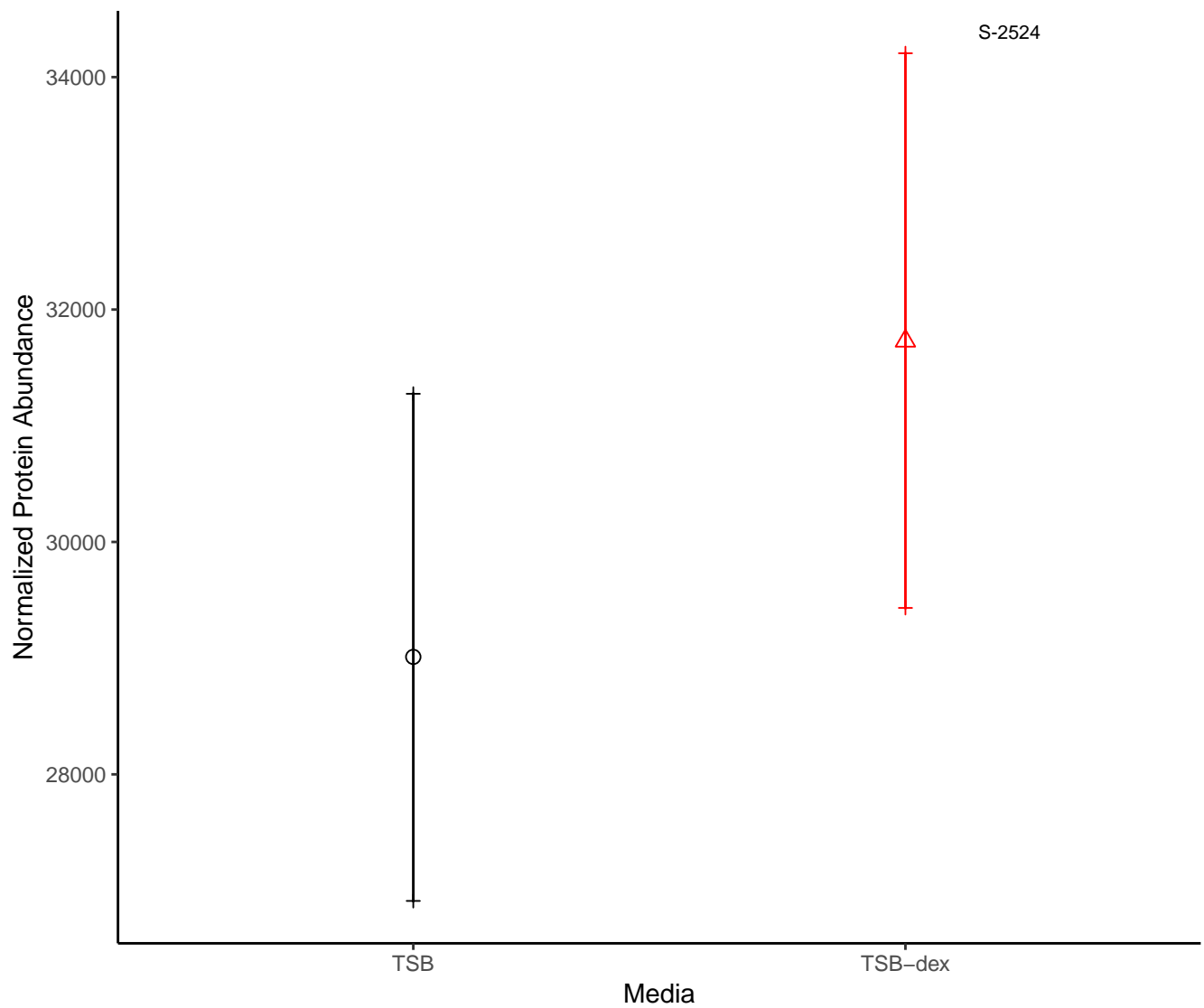
# ADH\_STAAM



⊕ TSB-dex

△ TSB

# AHPC\_STAAM

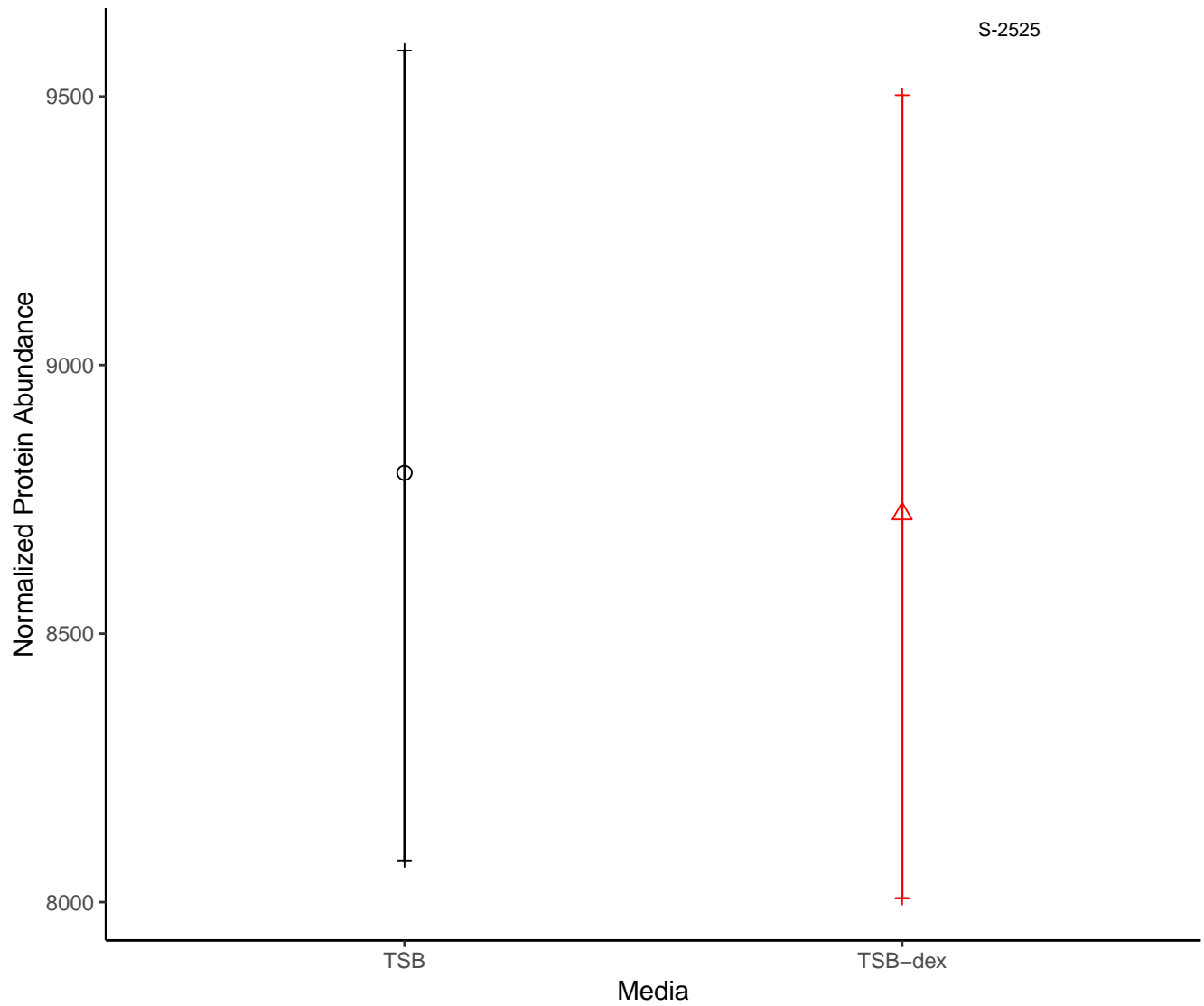


⊕ TSB-dex

△ TSB

# AHPF\_STAAM

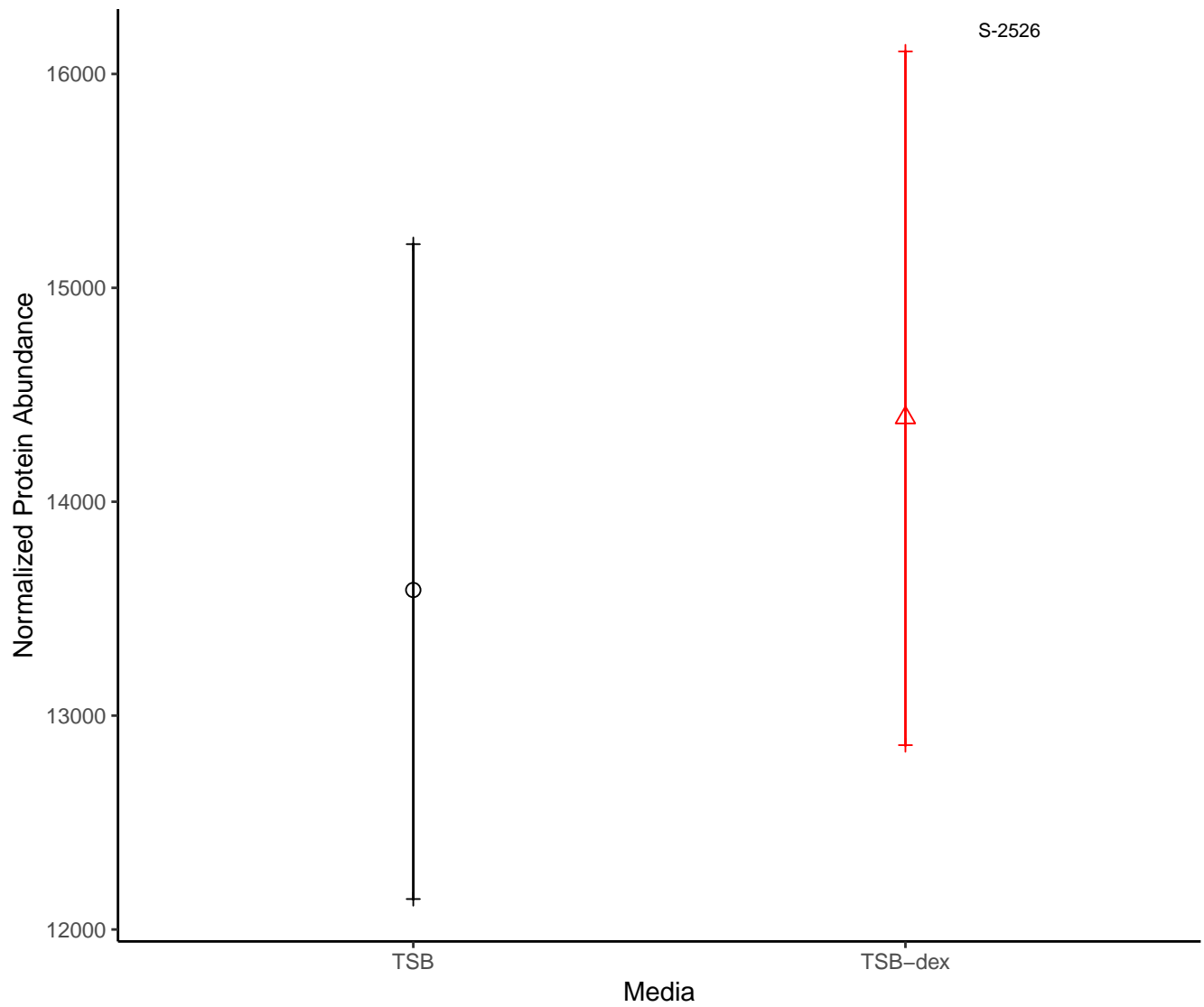
S-2525



⊕ TSB-dex

△ TSB

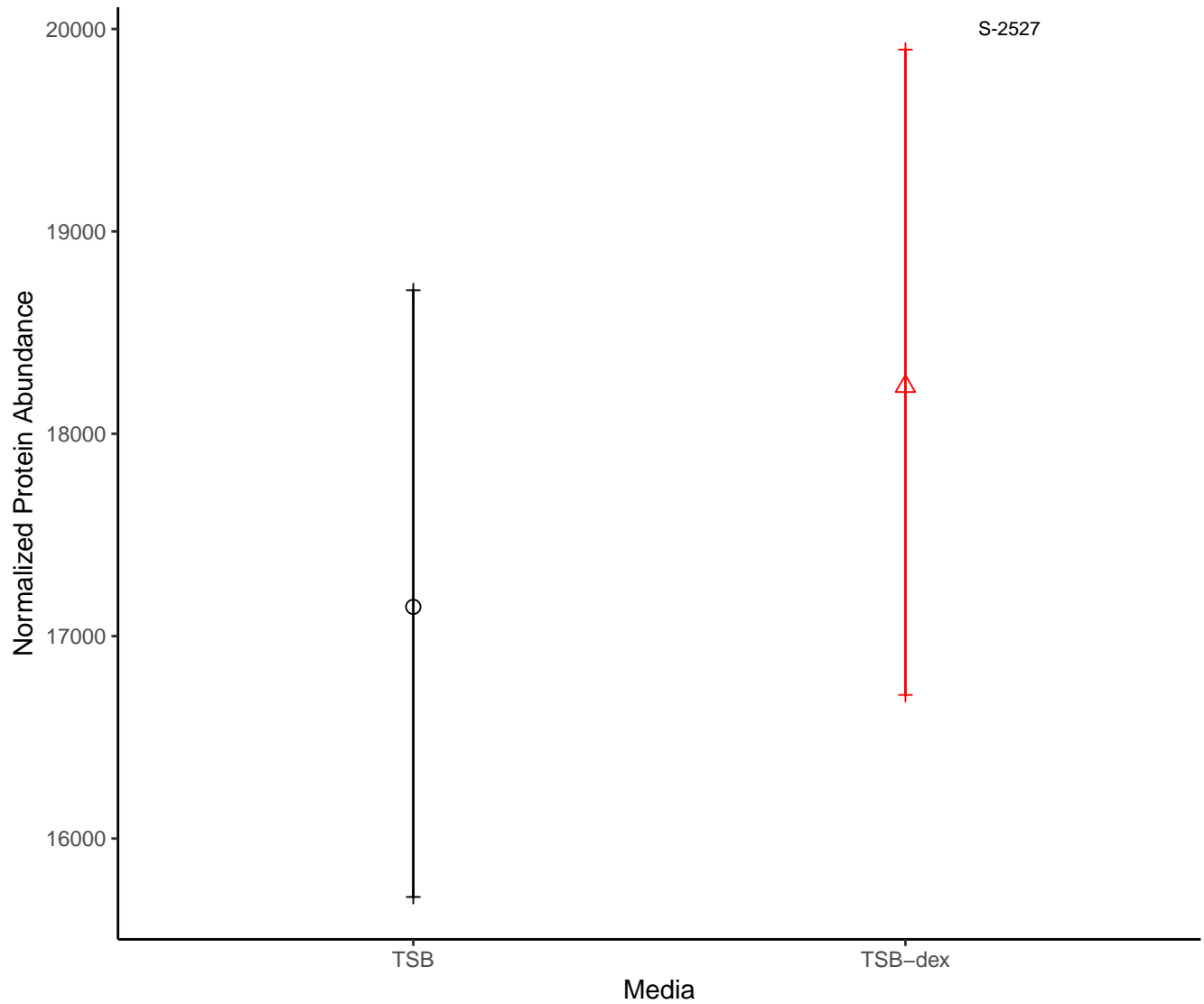
# ALD1\_STAAM



⊕ TSB-dex

△ TSB

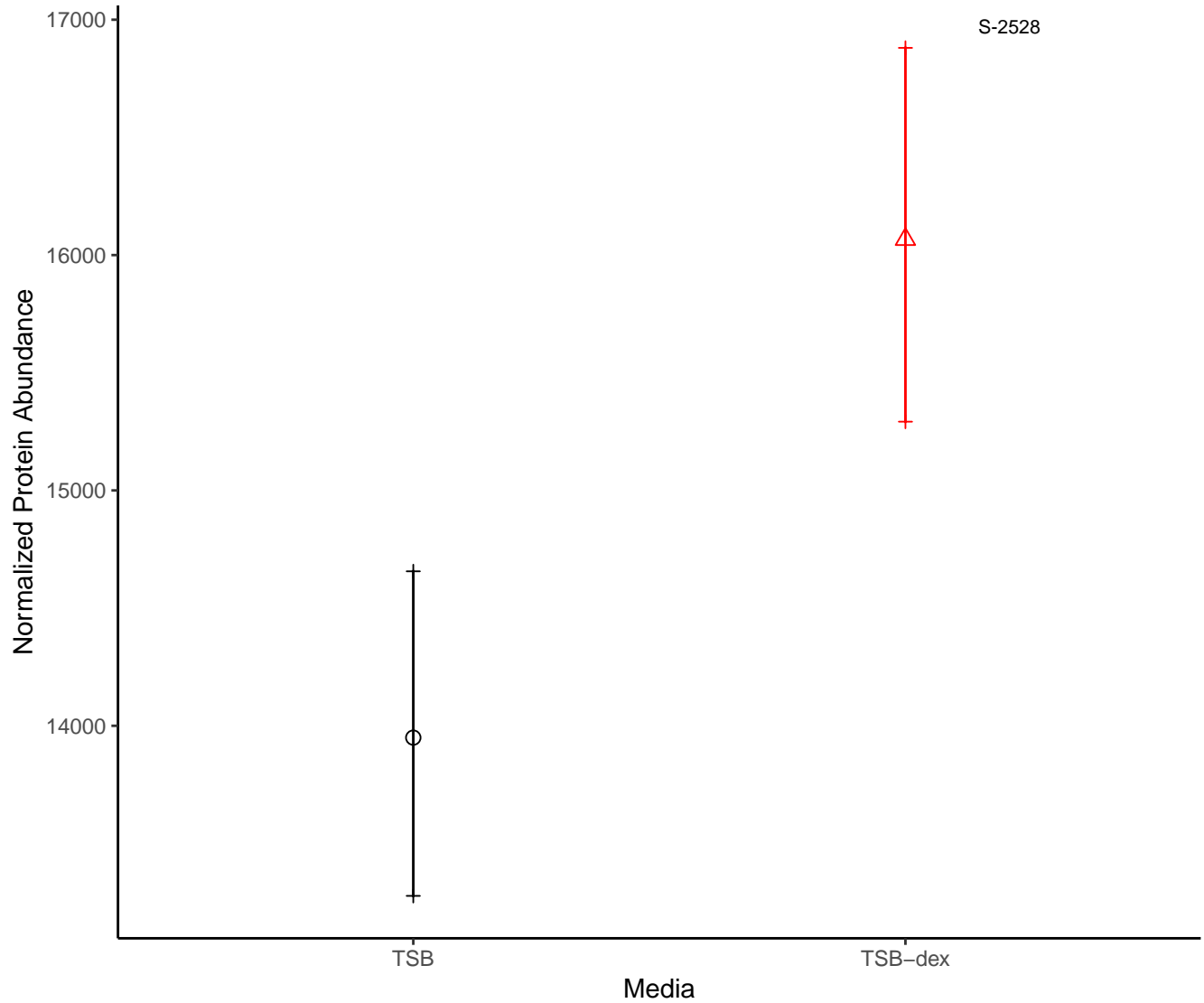
# ALDA\_STAAM



⊕ TSB-dex

△ TSB

# ALF1\_STAAM

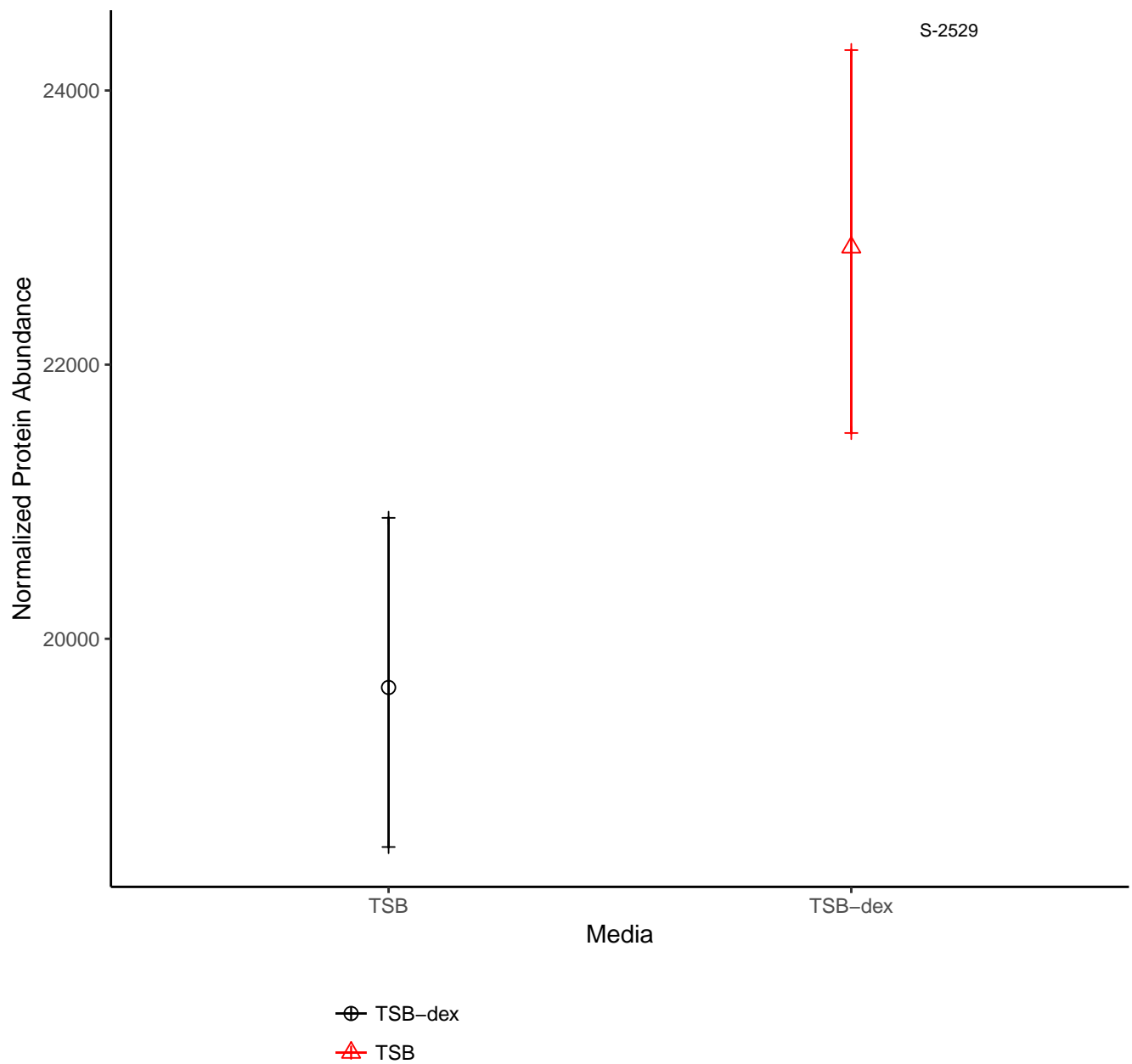


⊖ TSB-dex

△ TSB

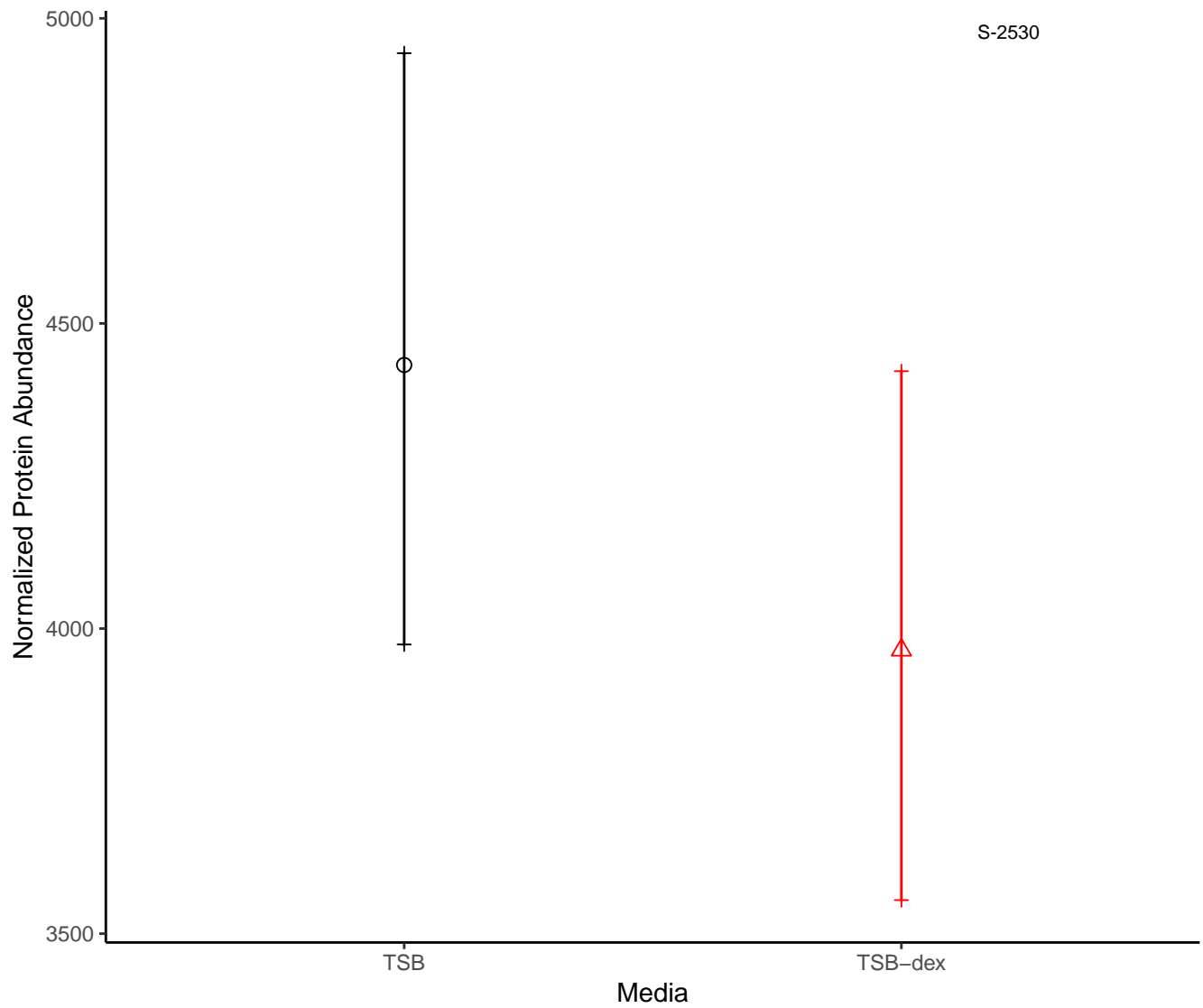


# ALF2\_STAAM



# APT\_STAAM

S-2530

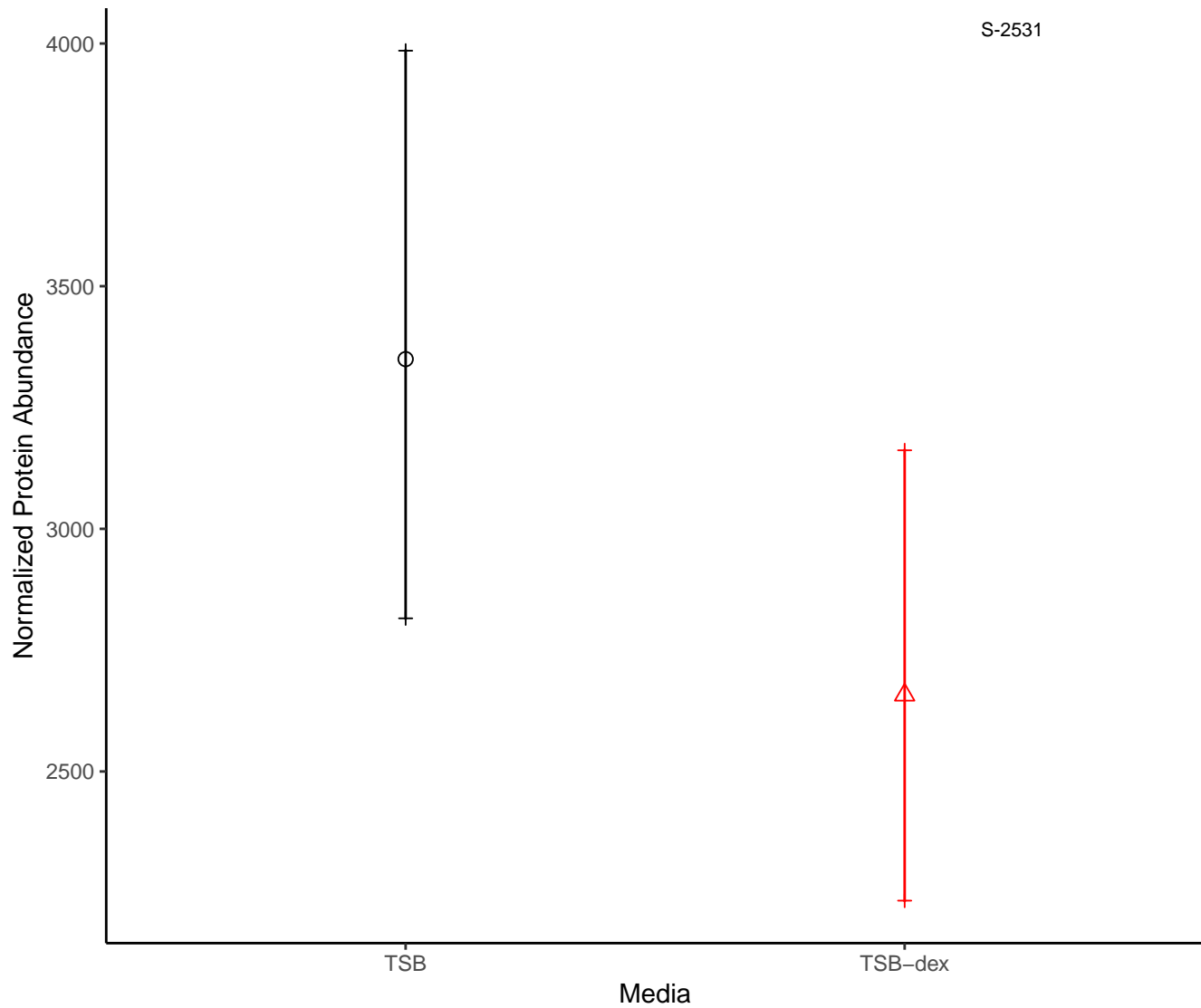


⊕ TSB-dex

△ TSB

# ARCA\_STAAM

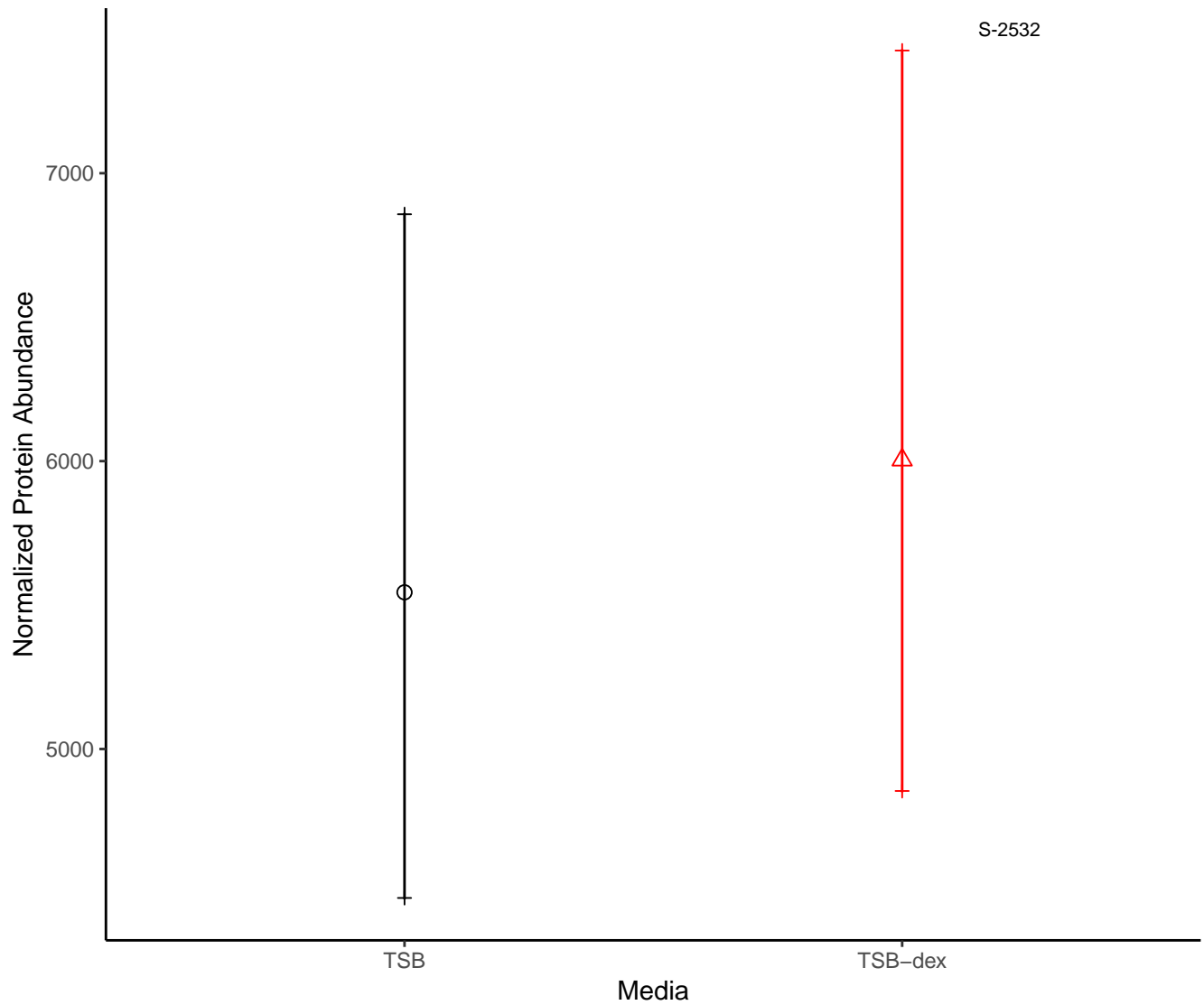
S-2531



⊕ TSB-dex

△ TSB

# ARCC1\_STAAM

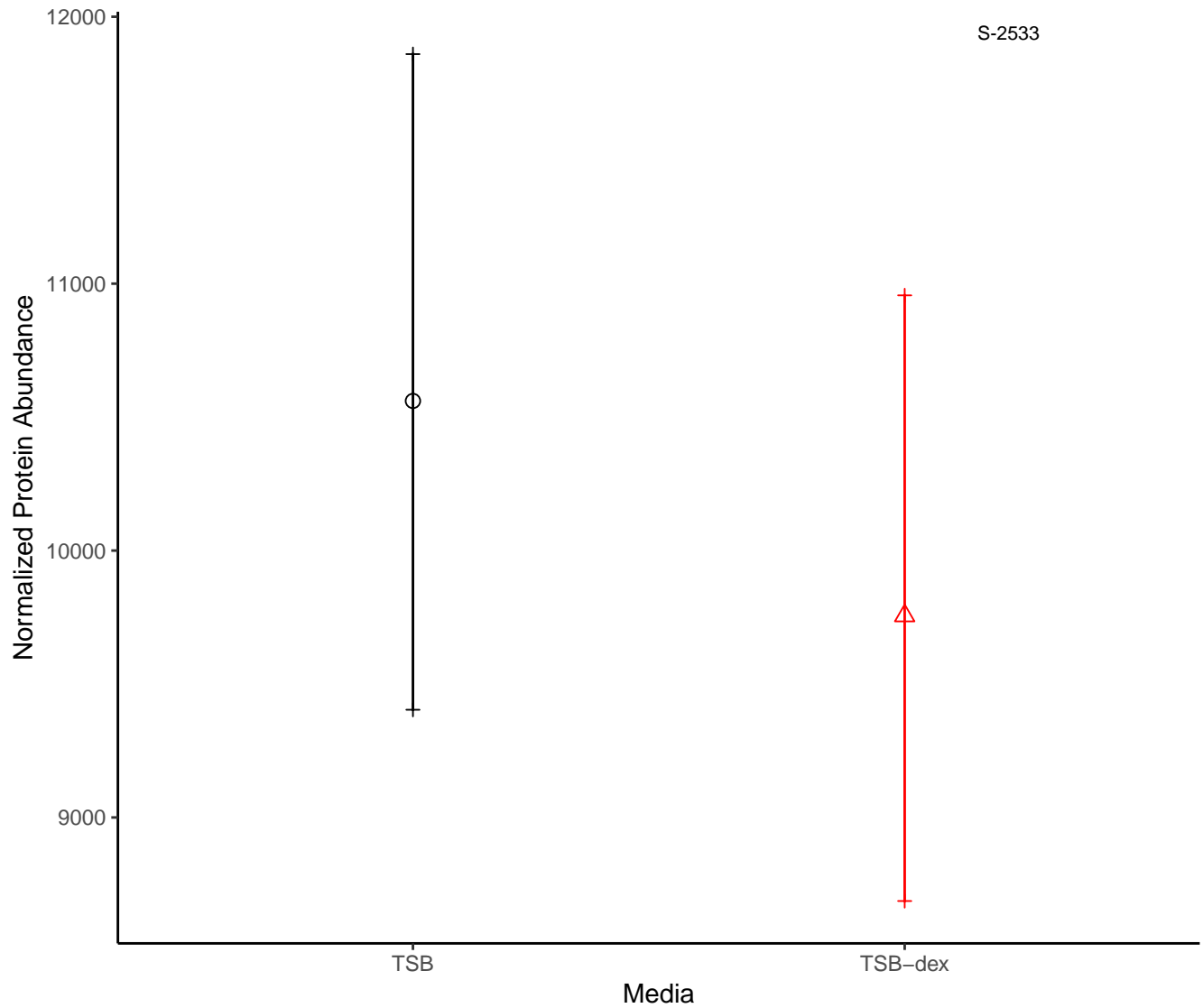


⊕ TSB-dex

△ TSB

# ARGI\_STAAM

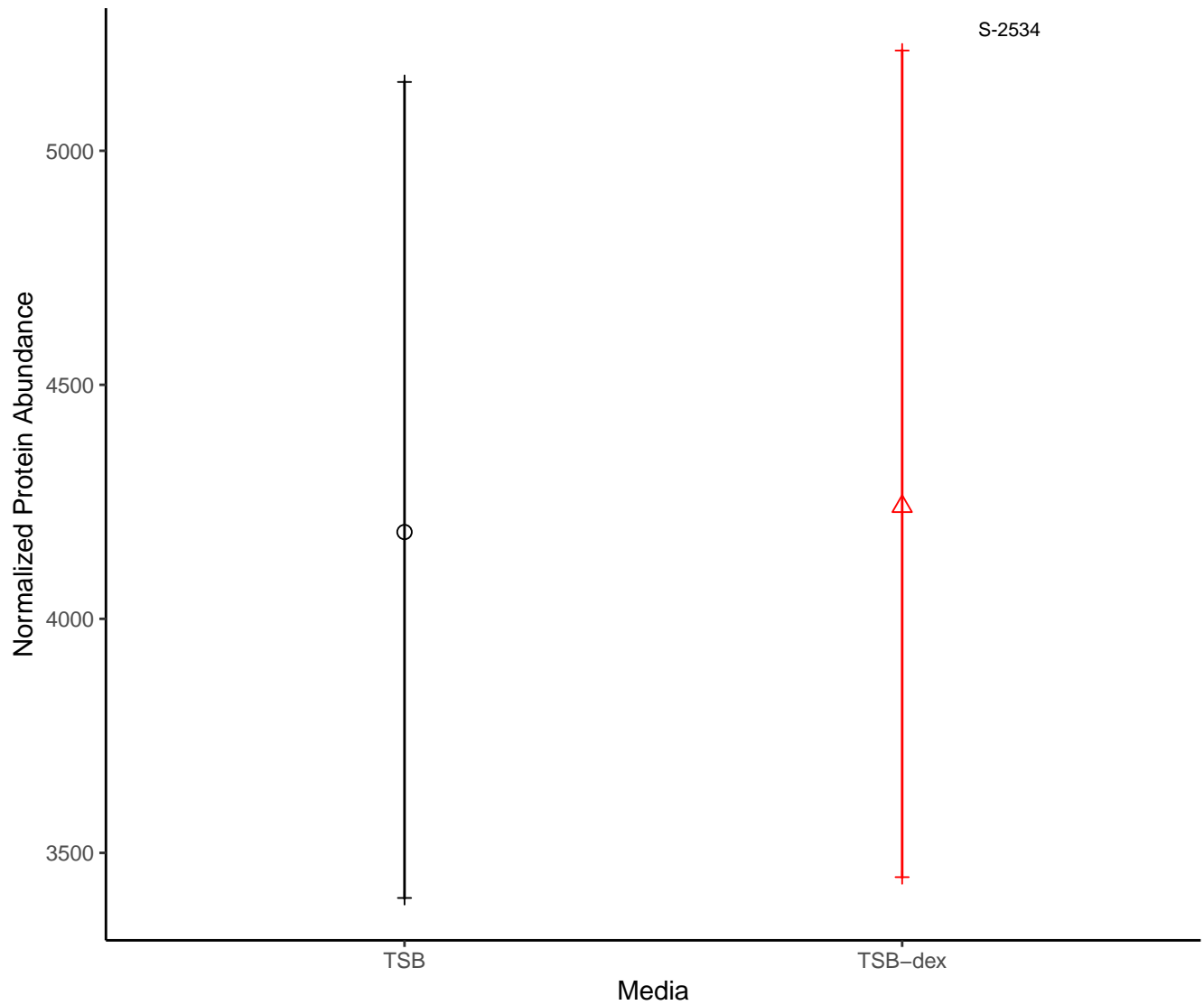
S-2533



⊖ TSB-dex

△ TSB

# ARGR\_STAAM

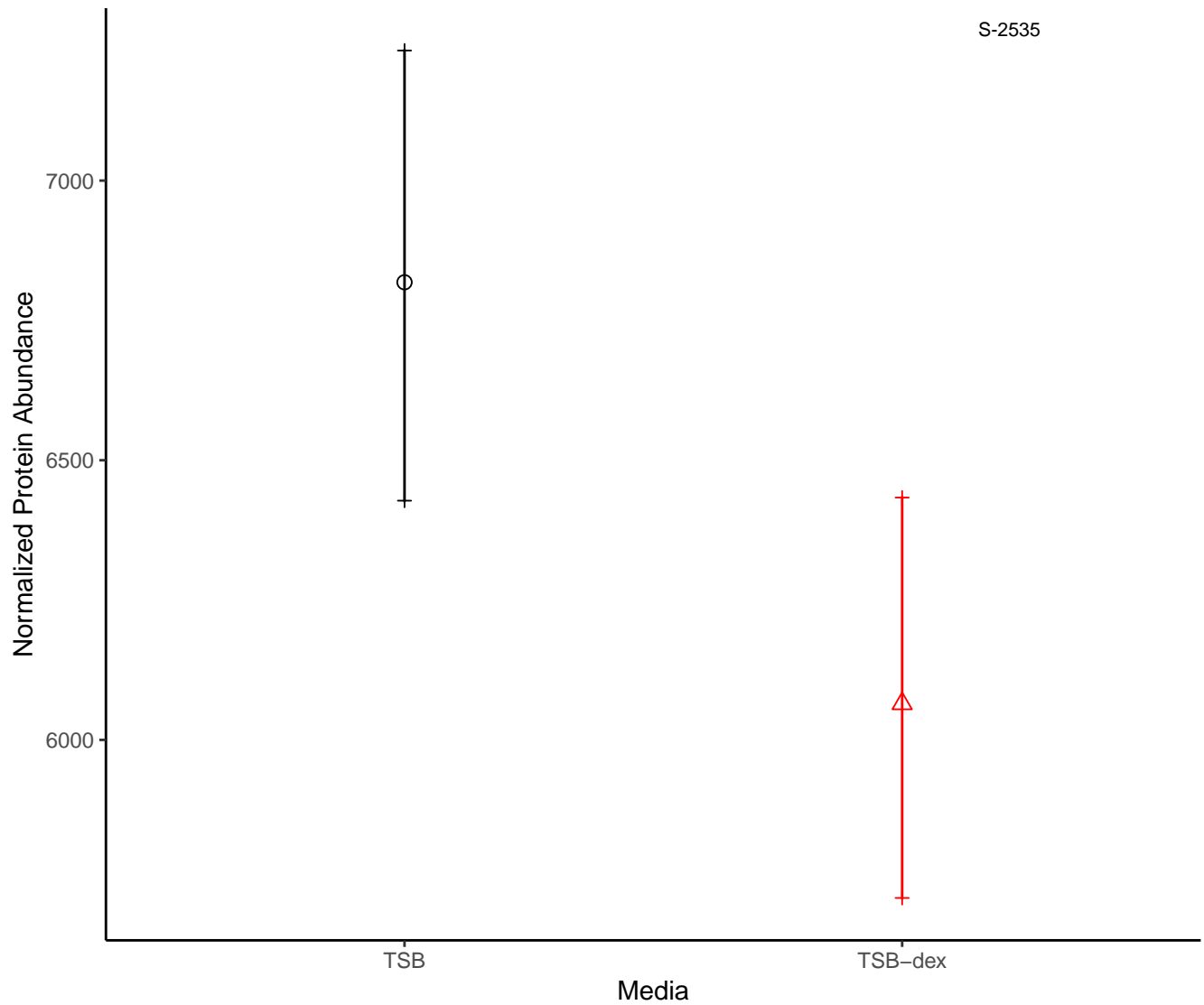


⊕ TSB-dex

△ TSB

# ARLR\_STAAM

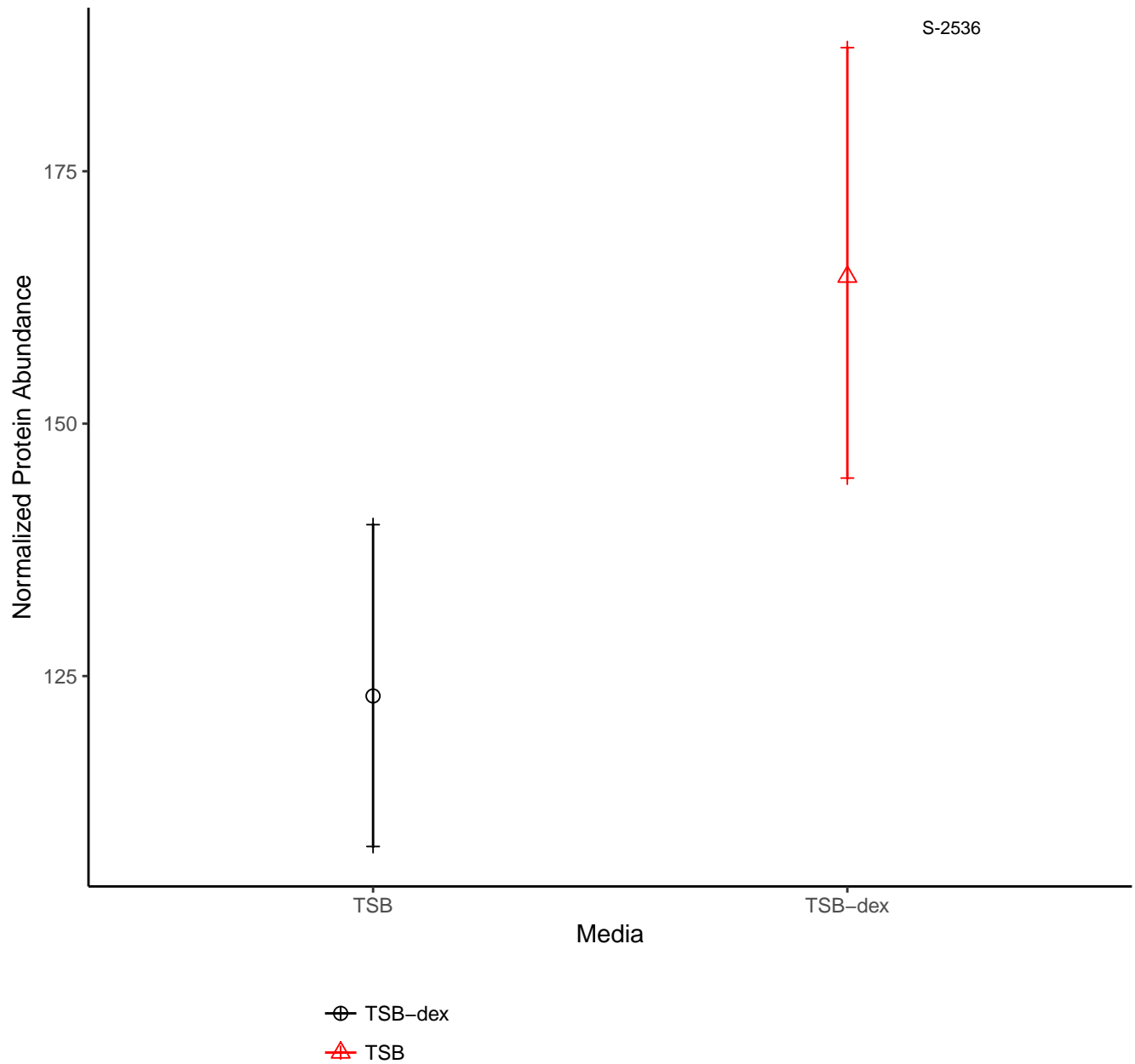
S-2535



⊕ TSB-dex

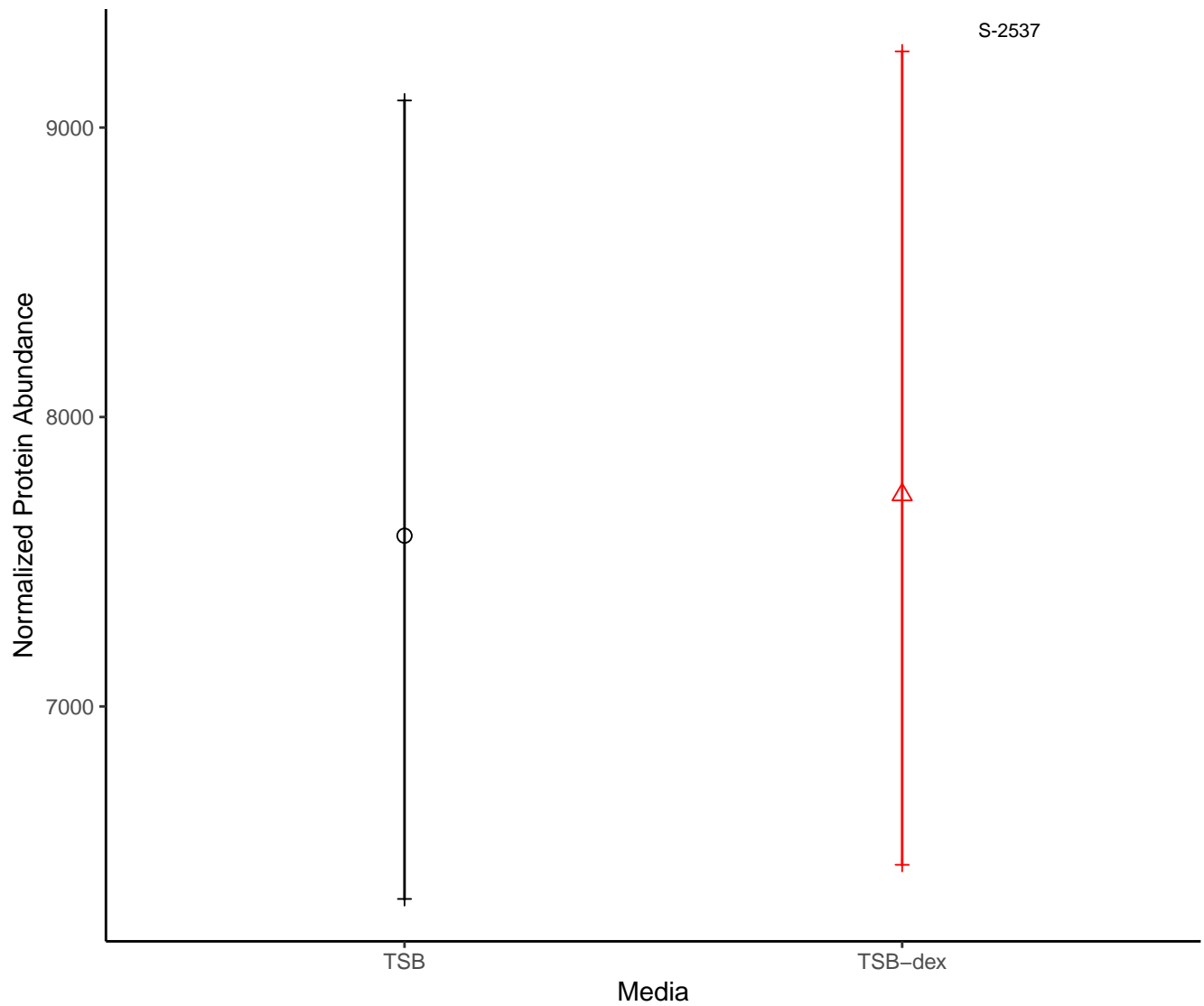
△ TSB

# ARLY\_STAAM





# AROA\_STAAM

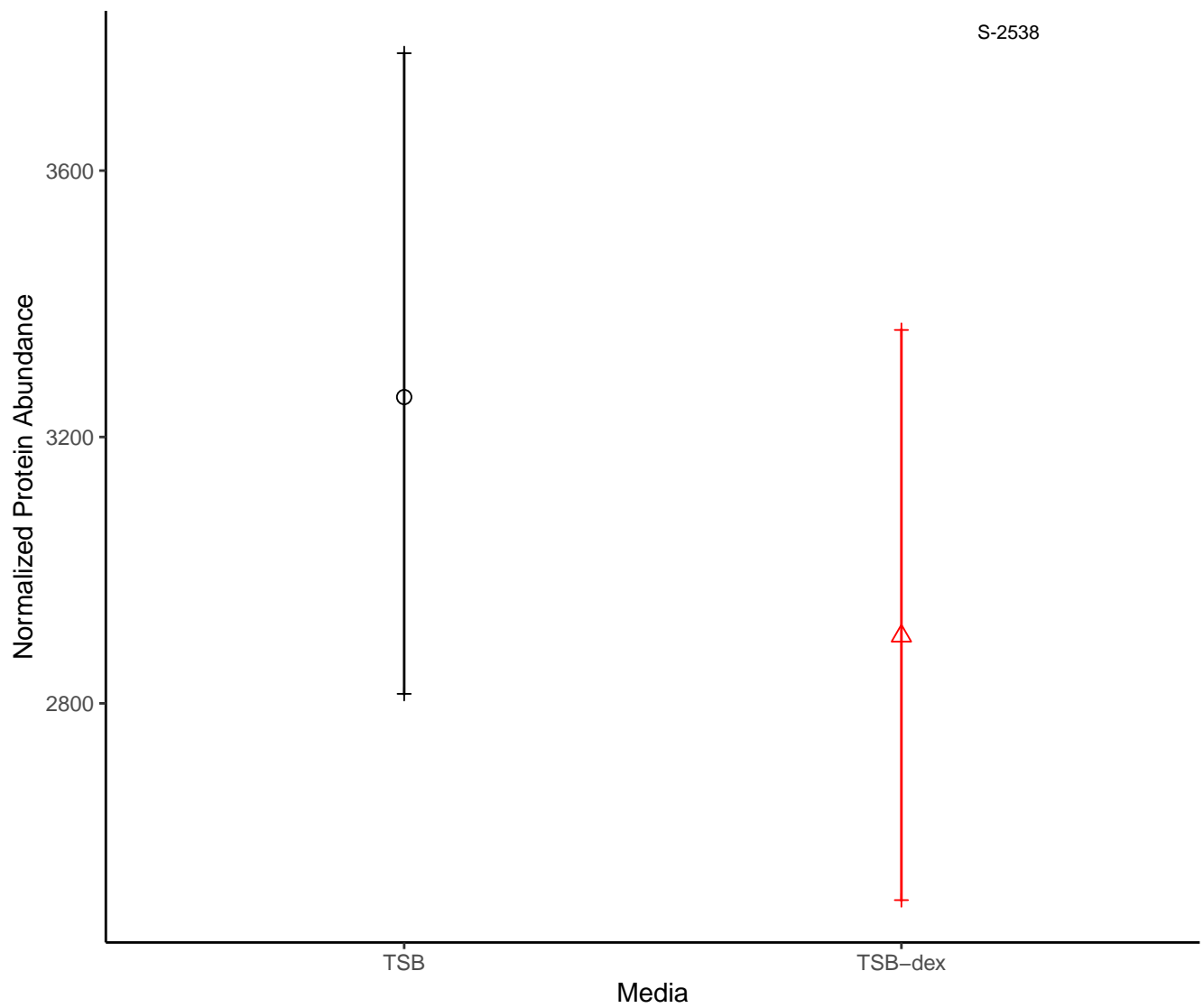


⊕ TSB-dex

△ TSB

# AROB\_STAAM

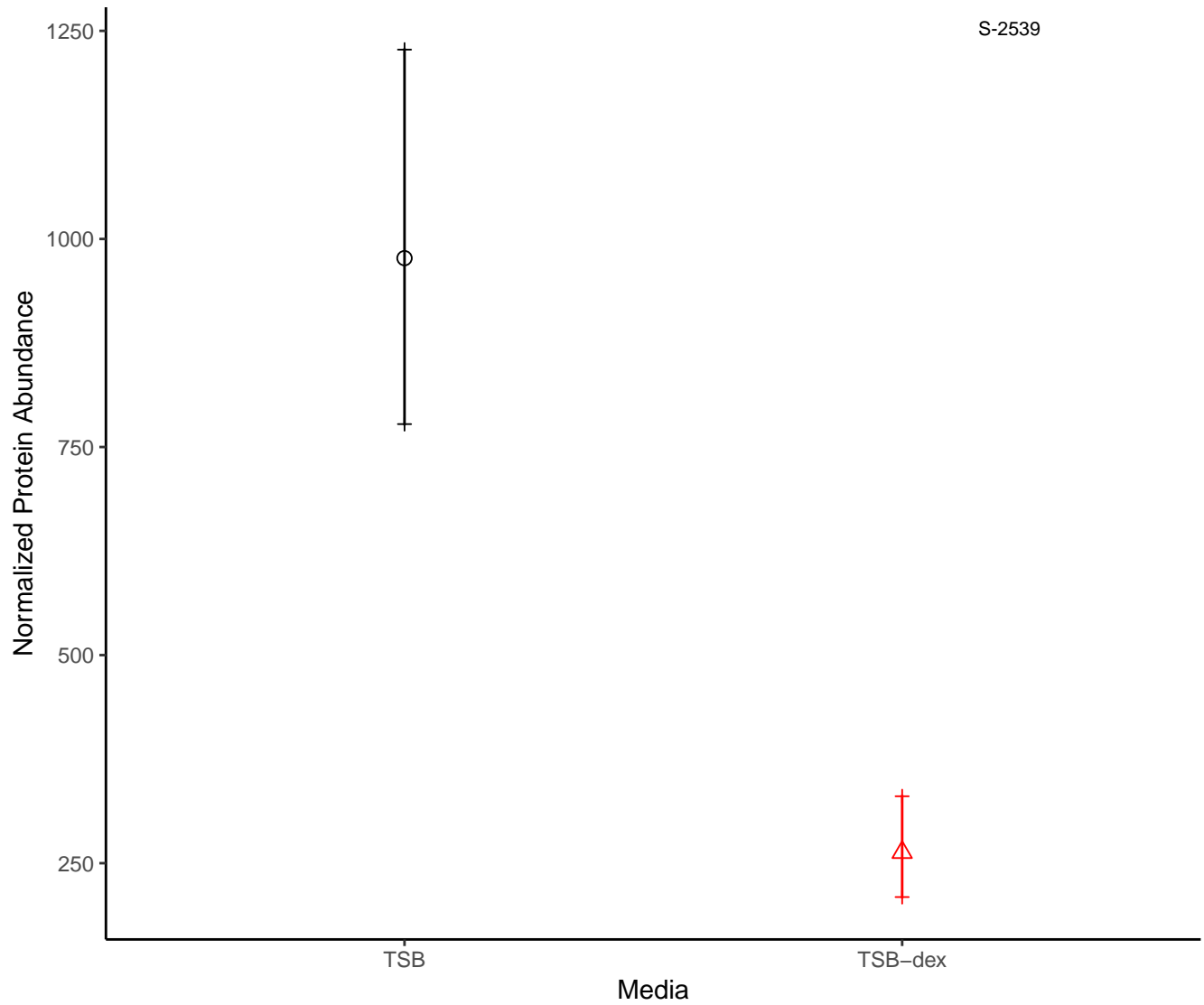
S-2538



⊕ TSB-dex

△ TSB

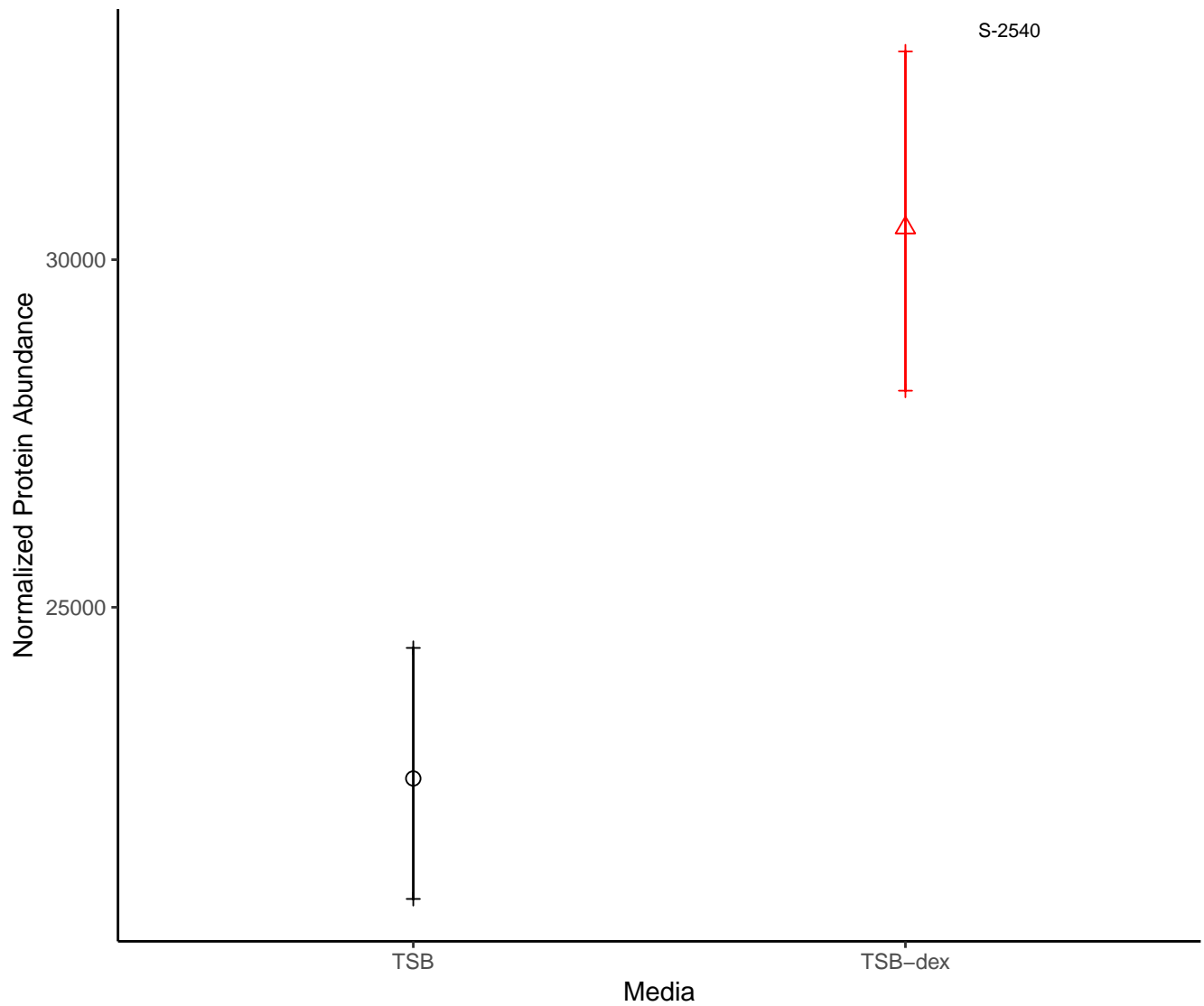
# AROE\_STAAM



⊕ TSB-dex

△ TSB

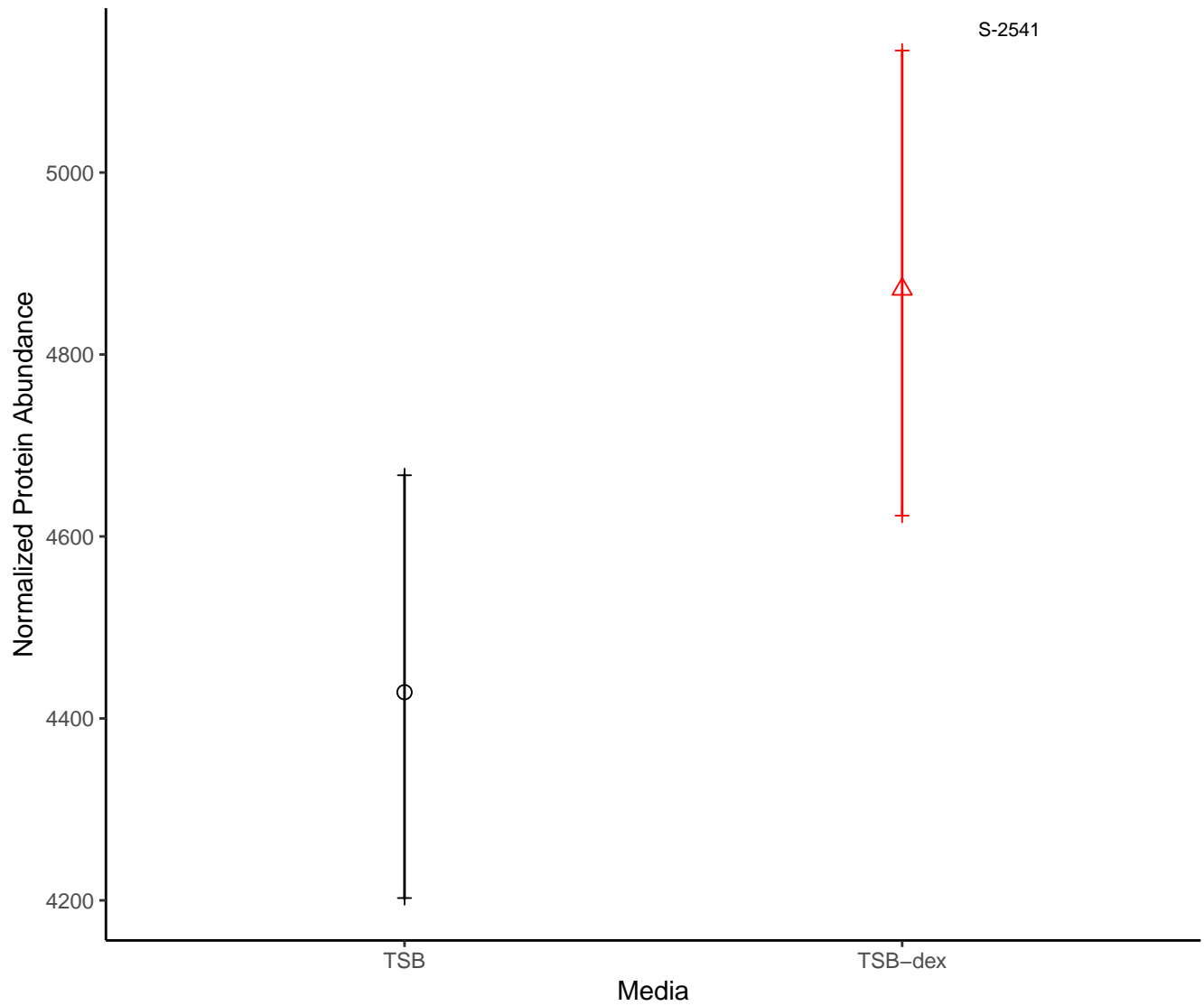
# ASP23\_STAAM



⊕ TSB-dex

△ TSB

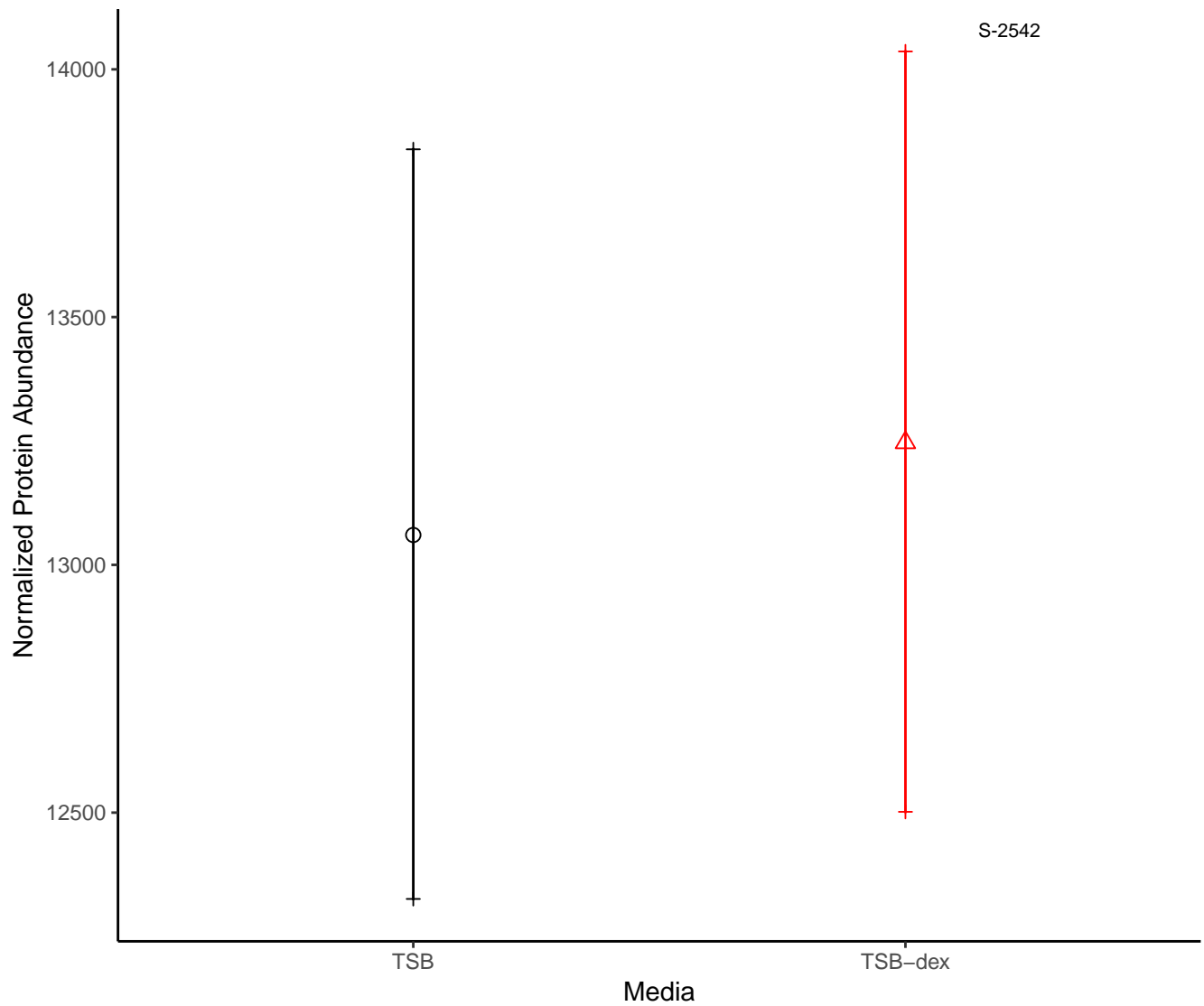
# ATL\_STAAM



⊕ TSB-dex

△ TSB

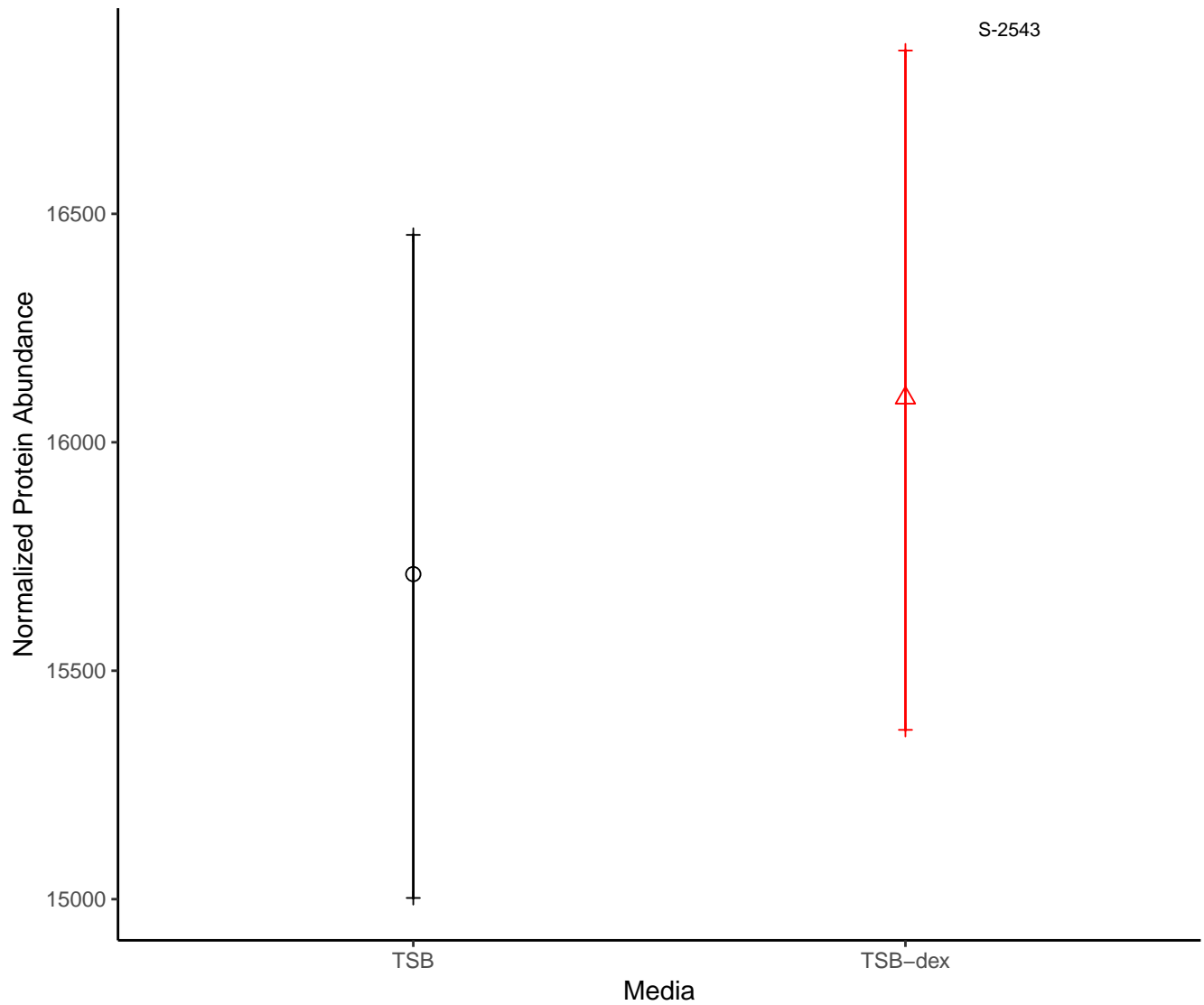
# ATPA\_STAAM



⊕ TSB-dex

△ TSB

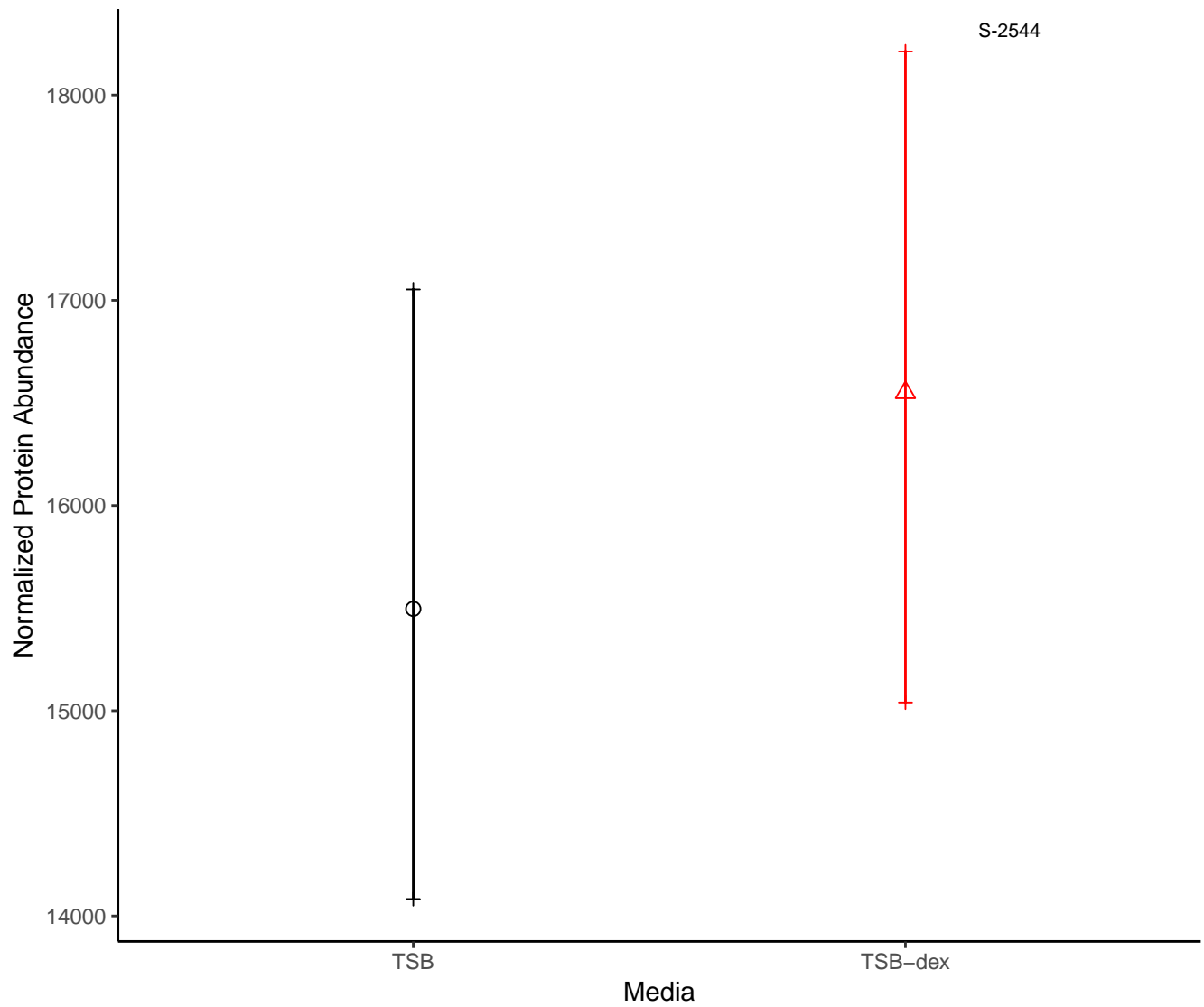
# ATPB\_STAAM



⊖ TSB-dex

△ TSB

# ATPD\_STAAM

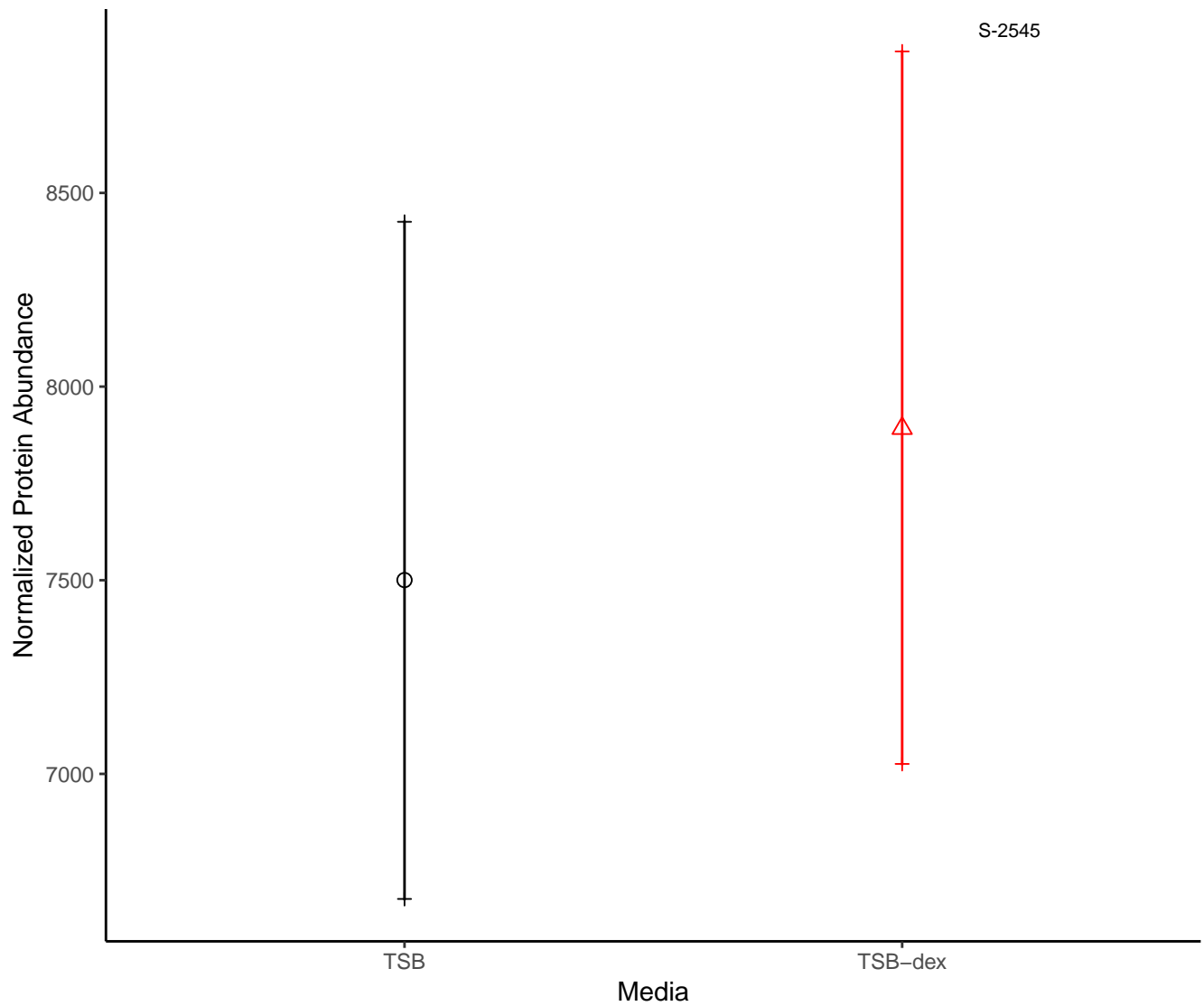


⊕ TSB-dex

△ TSB



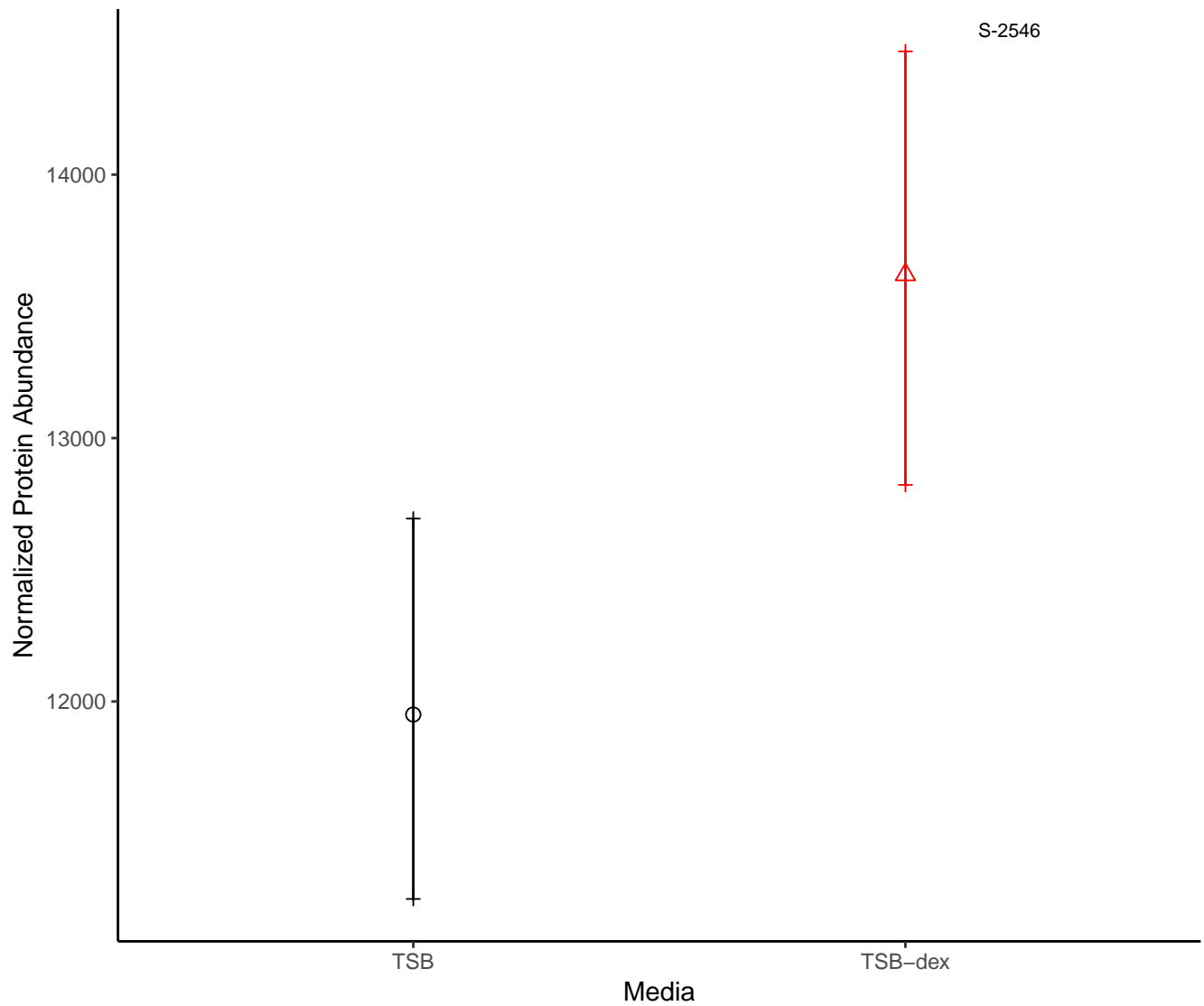
# ATPE\_STAAM



⊕ TSB-dex

△ TSB

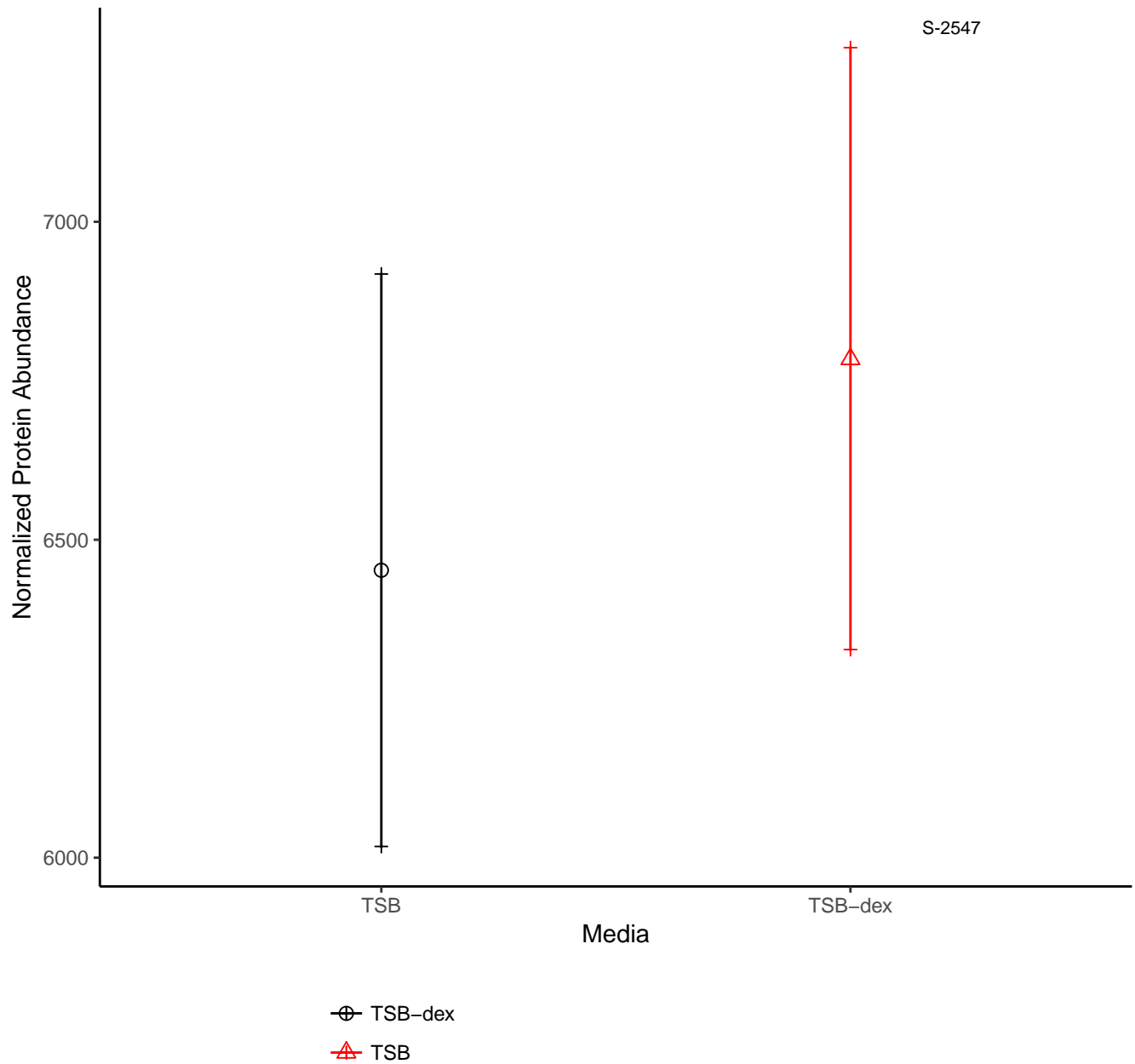
# ATPF\_STAAM



⊖ TSB-dex

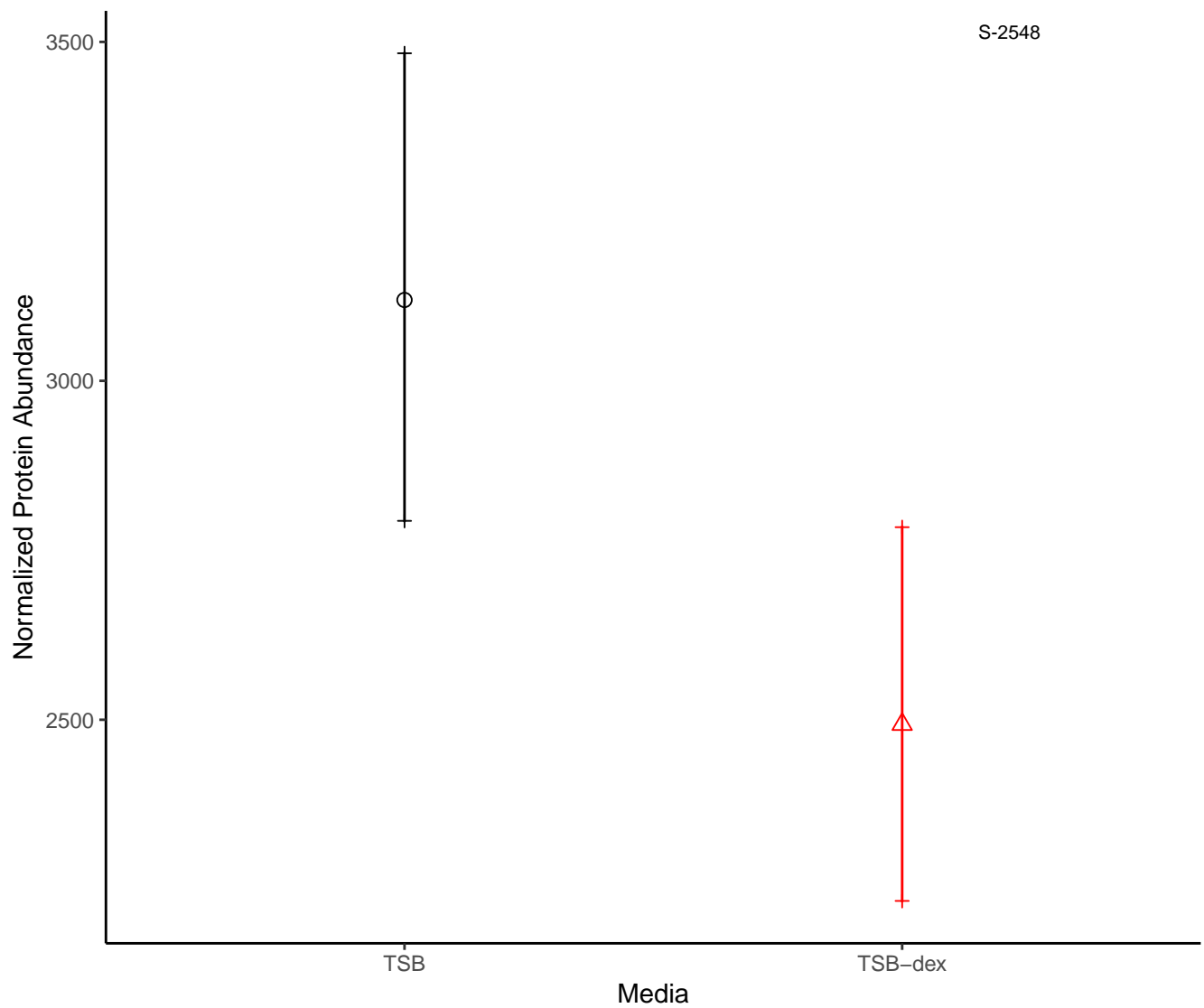
⊖ TSB

# ATPG\_STAAM



# AZO1\_STAAM

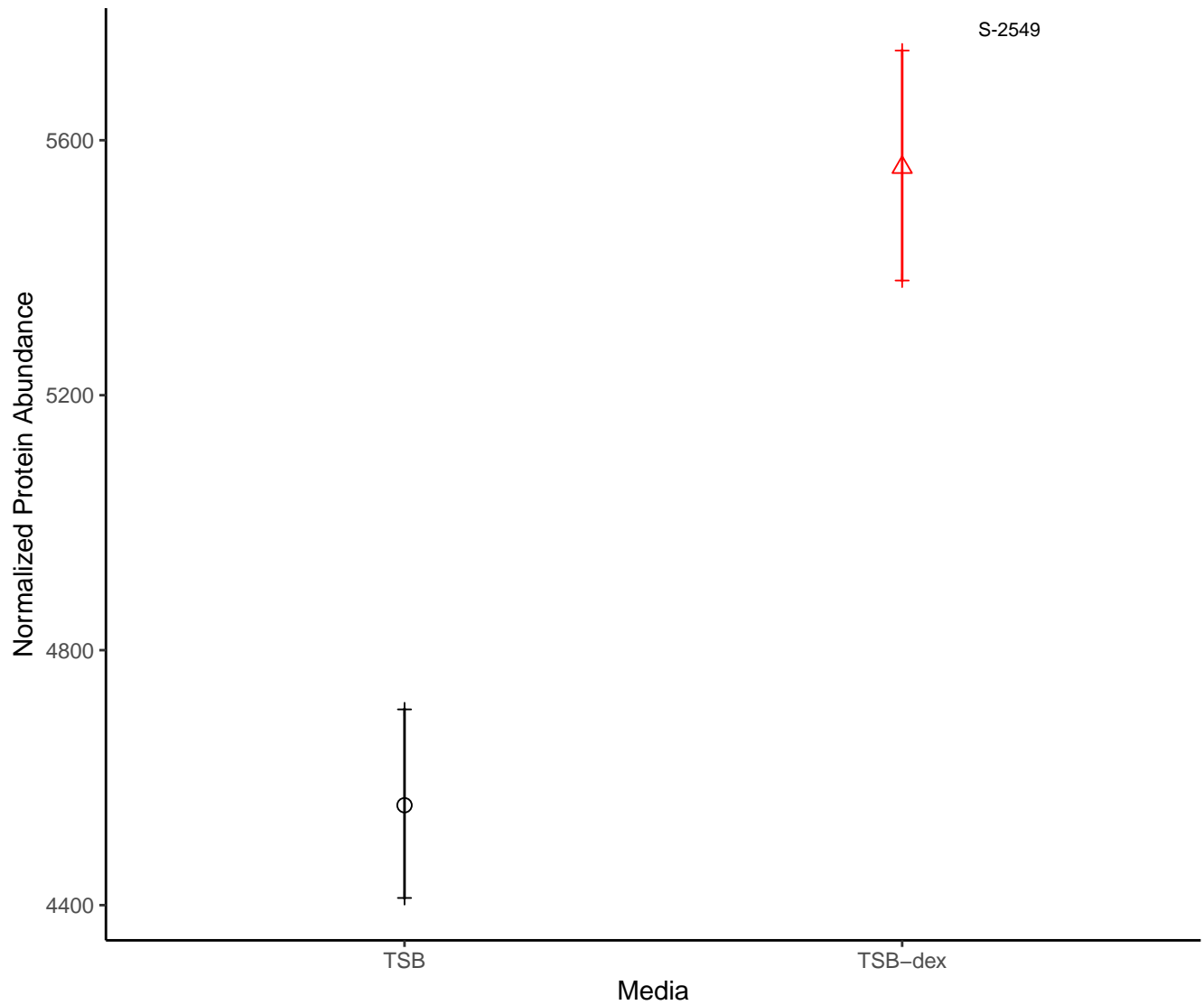
S-2548



⊕ TSB-dex

△ TSB

# AZOR\_STAAM

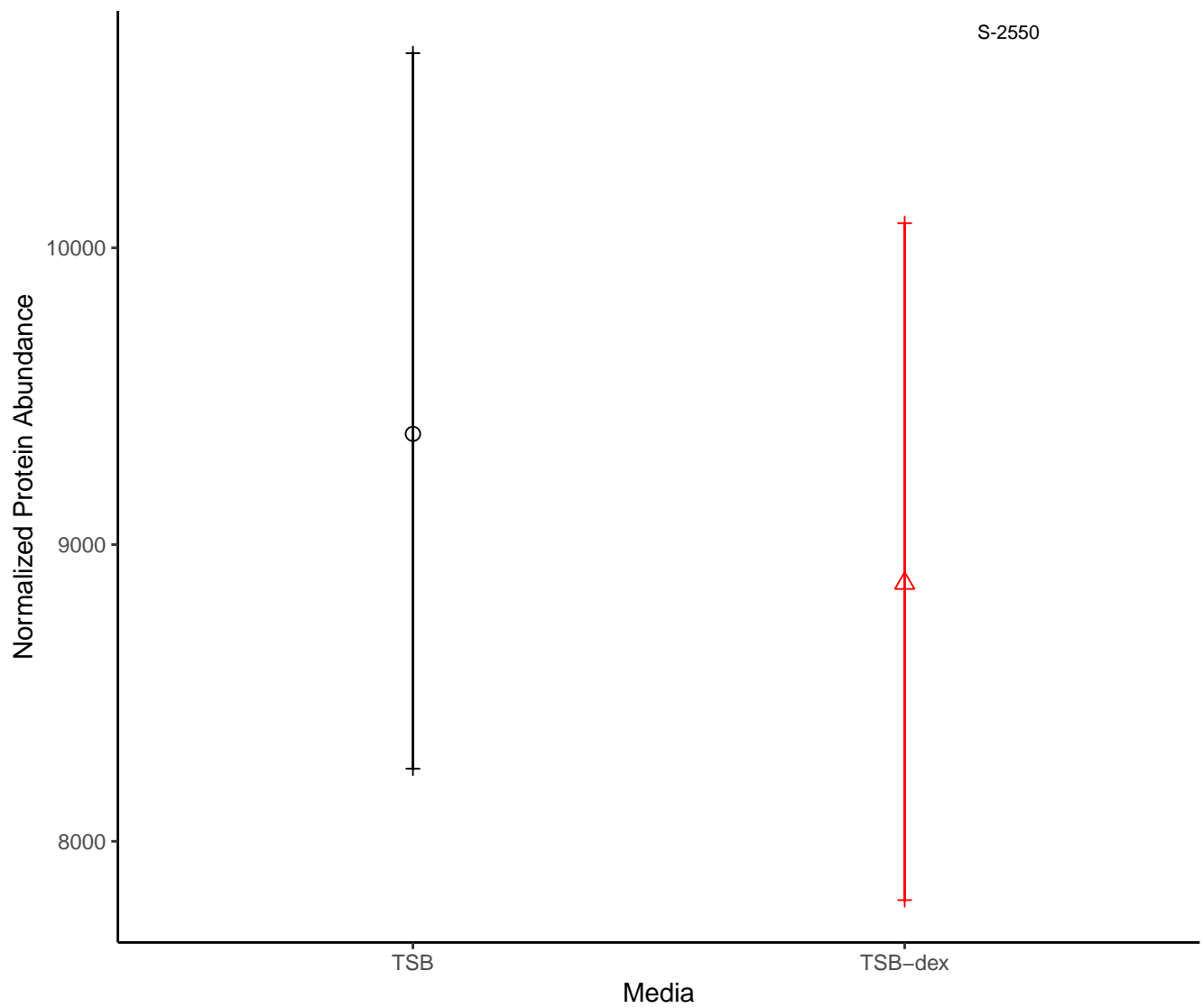


⊕ TSB-dex

△ TSB

# BSAA\_STAAM

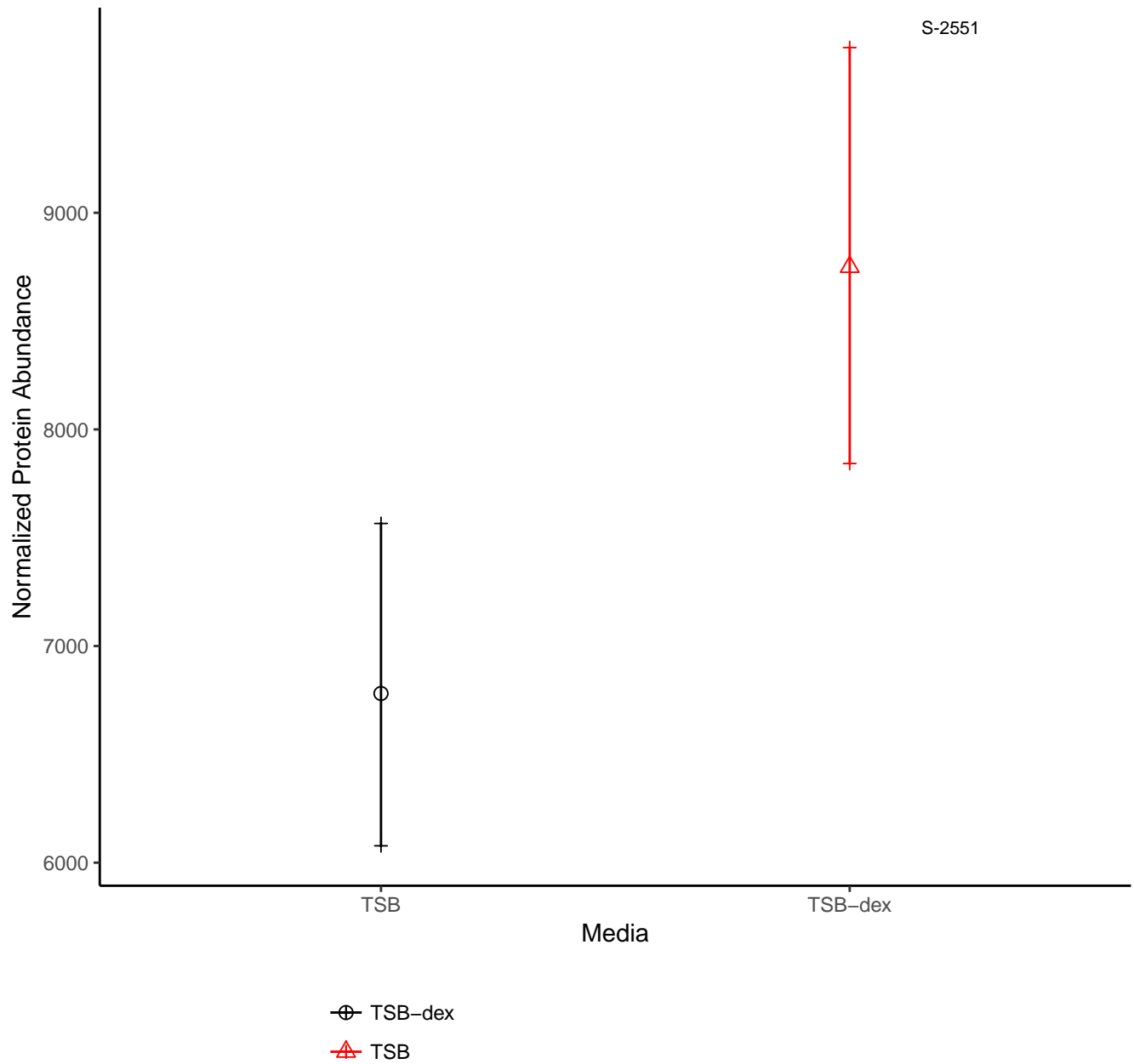
S-2550



⊕ TSB-dex

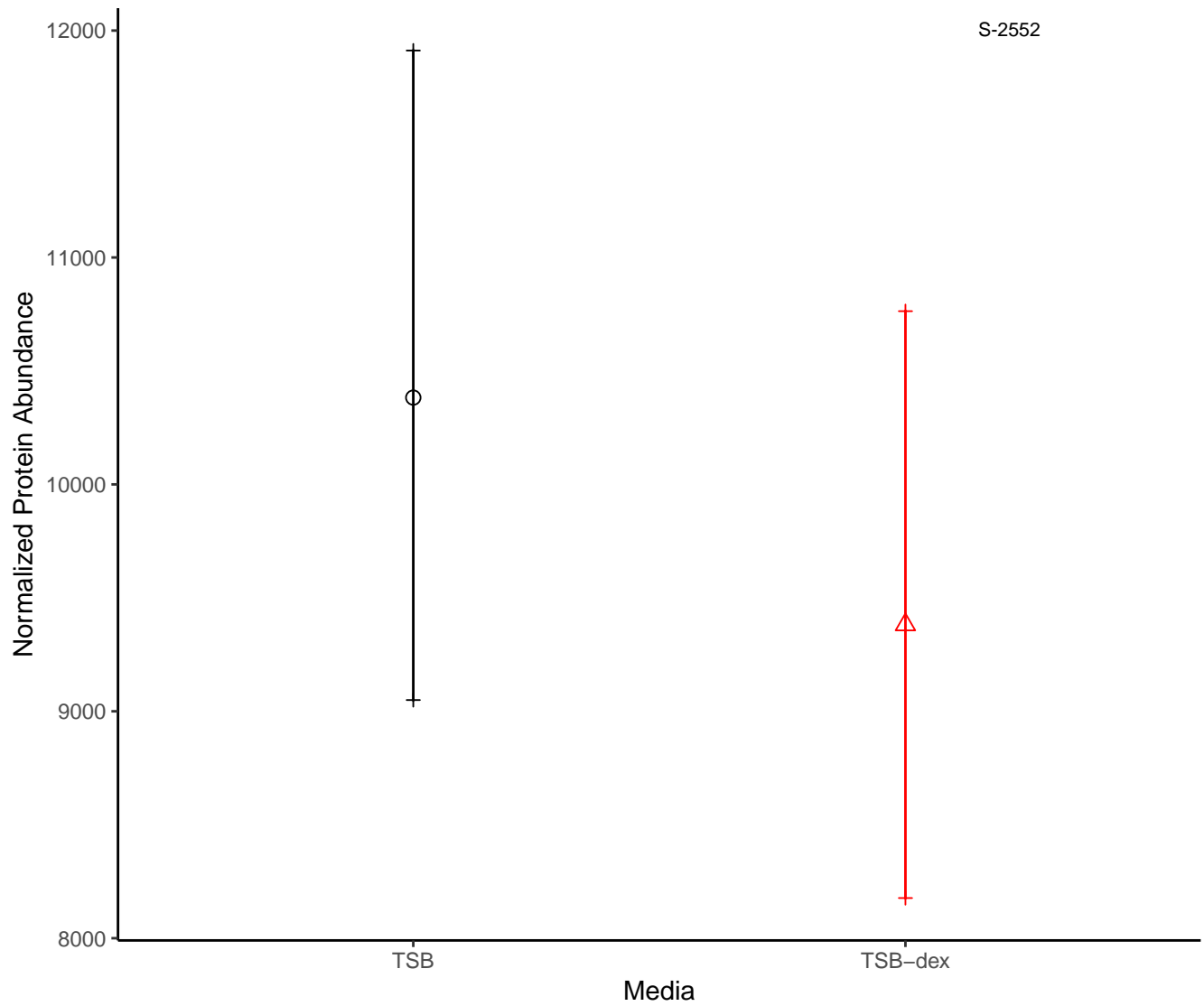
△ TSB

# BUTA\_STAAM



# CARA\_STAAM

S-2552



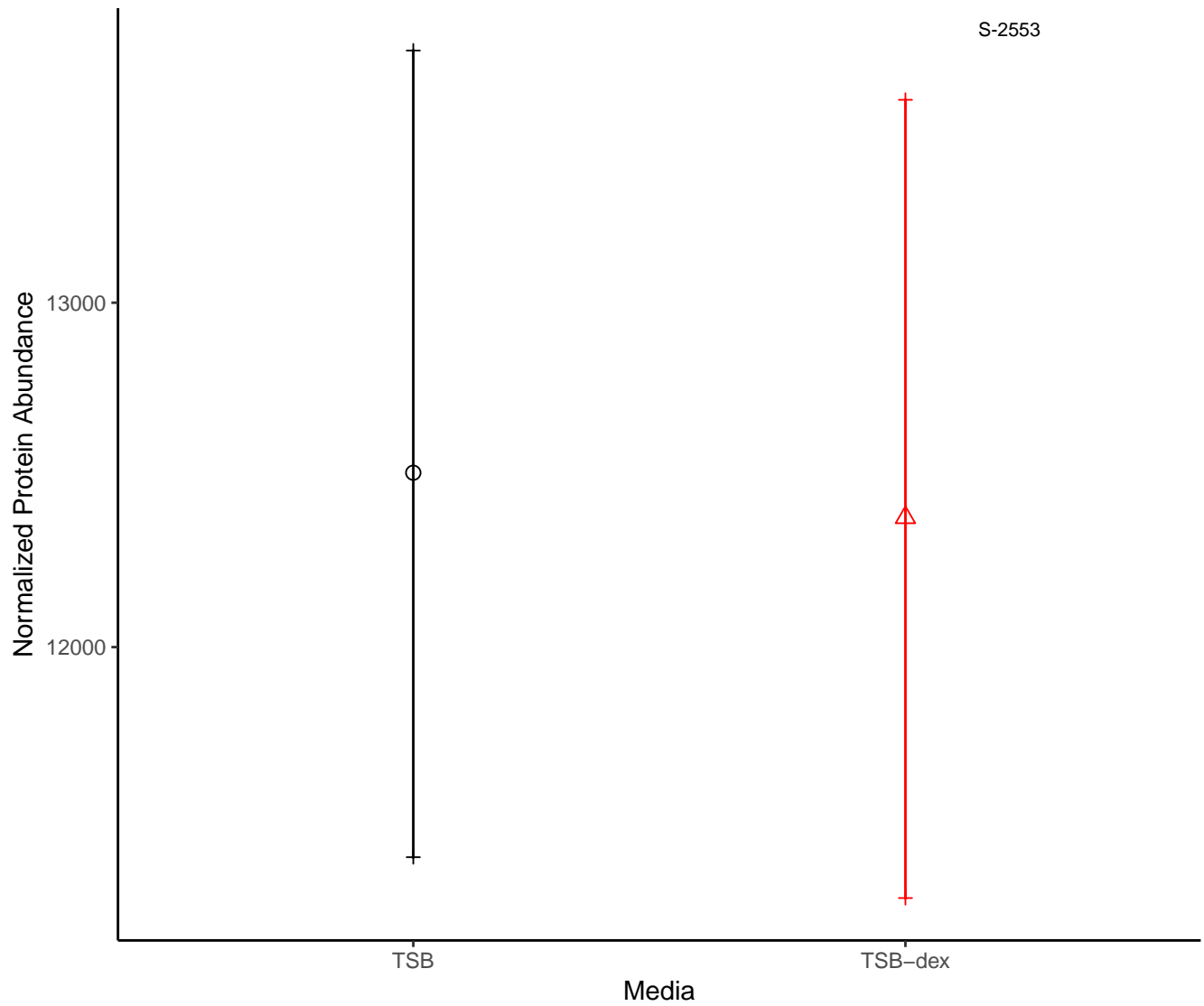
⊖ TSB-dex

△ TSB



# CARB\_STAAM

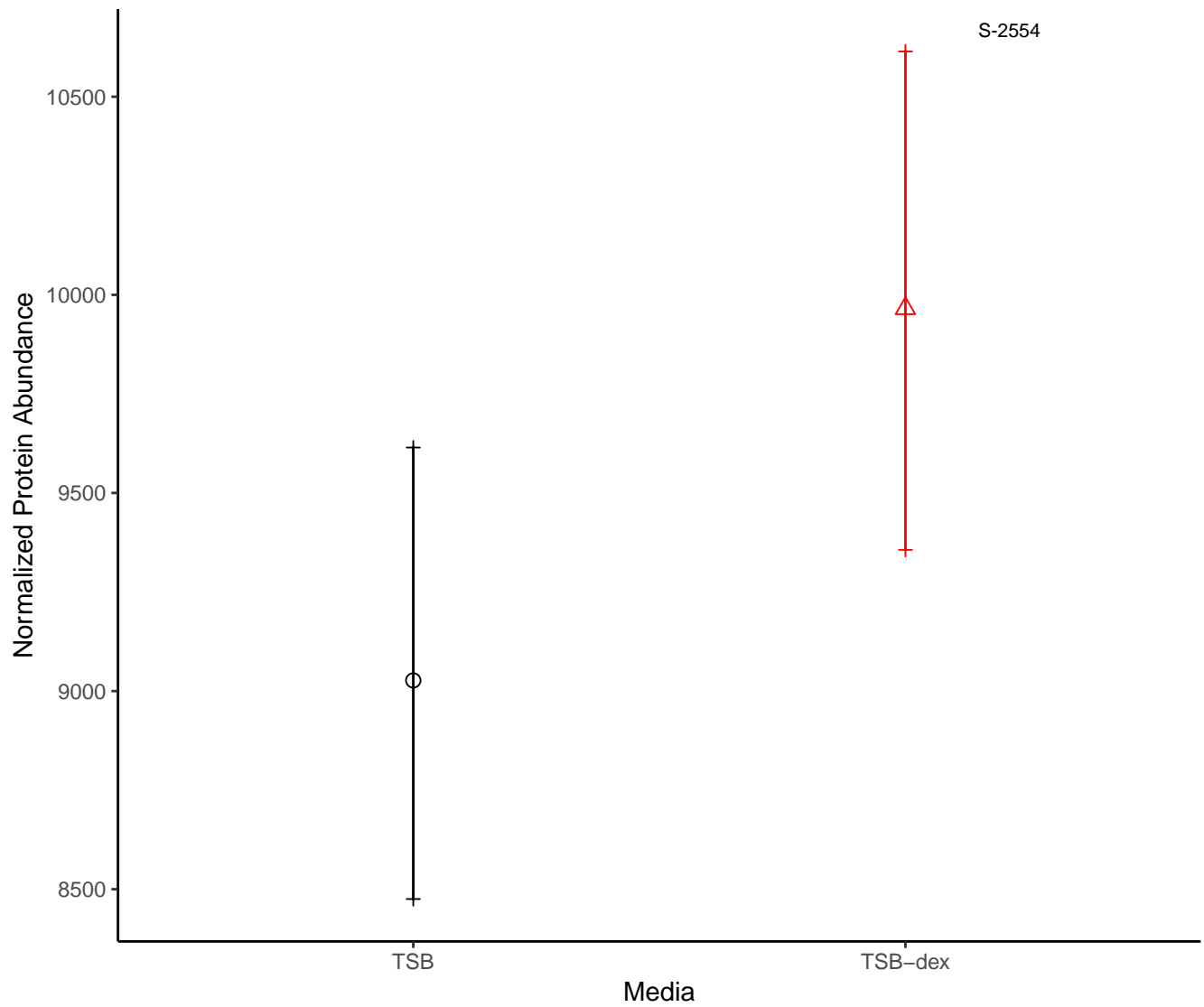
S-2553



⊕ TSB-dex

△ TSB

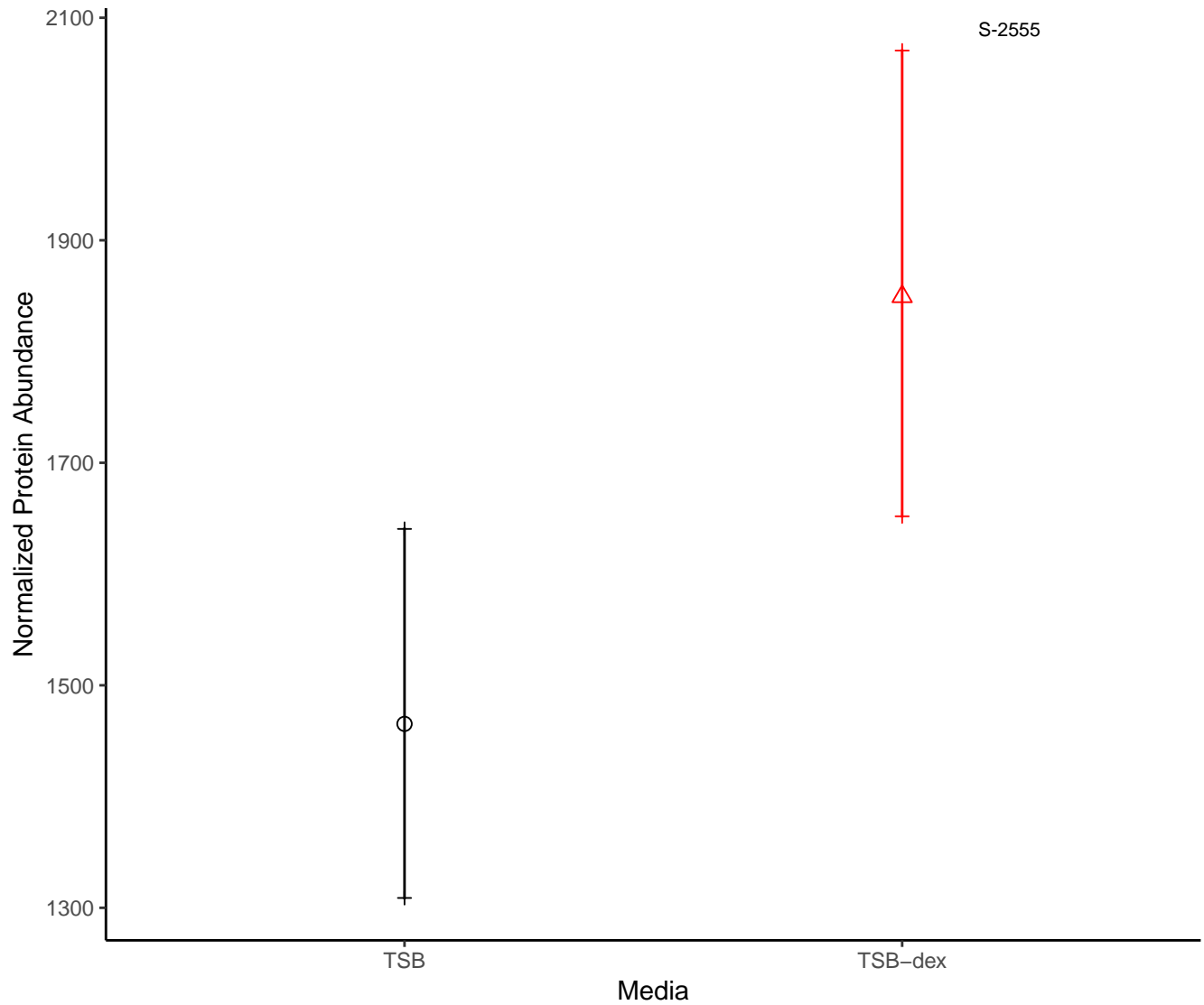
# CATA\_STAAM



⊕ TSB-dex

△ TSB

# CCPA\_STAAM

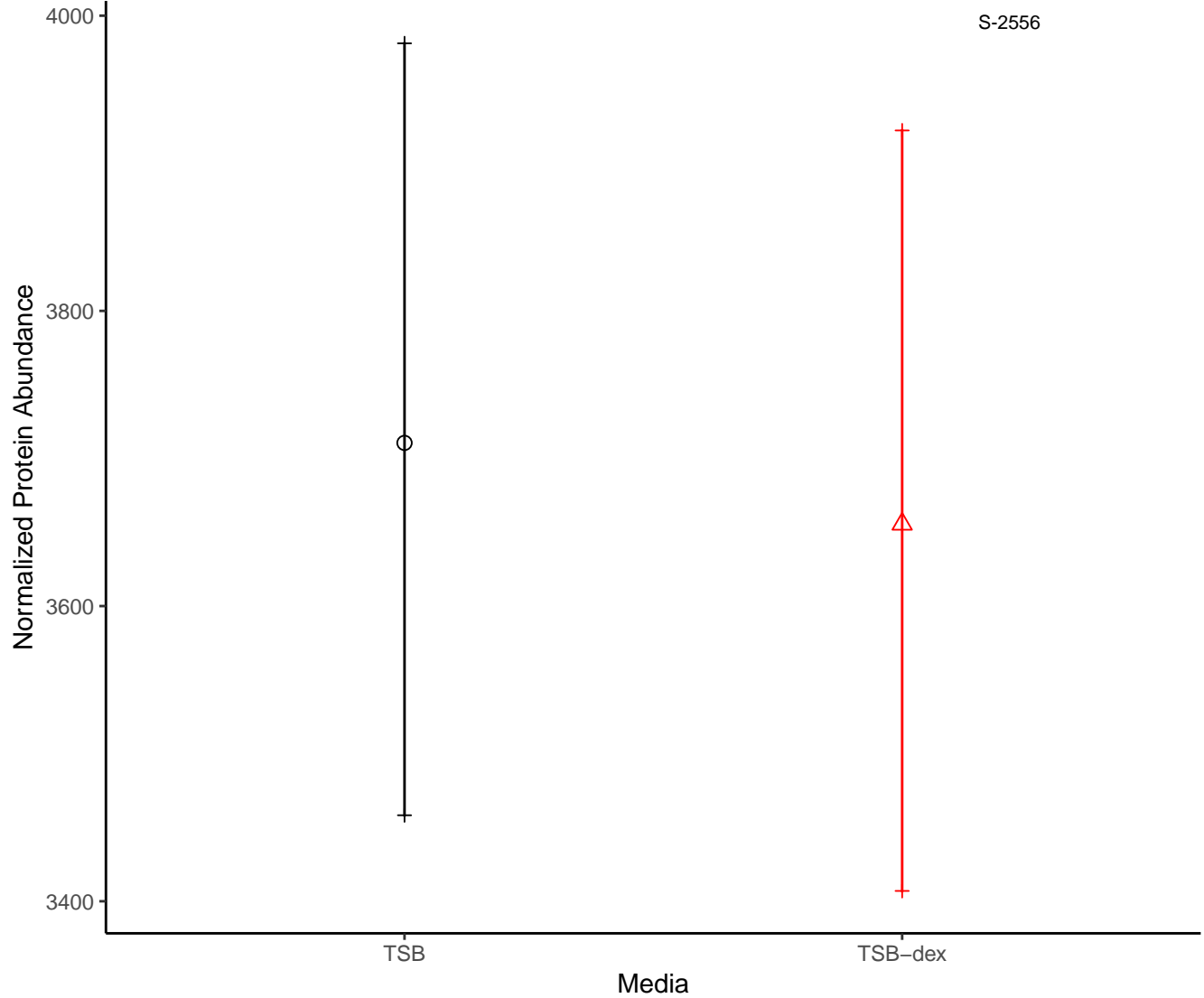


⊕ TSB-dex

△ TSB

# CDR\_STAAM

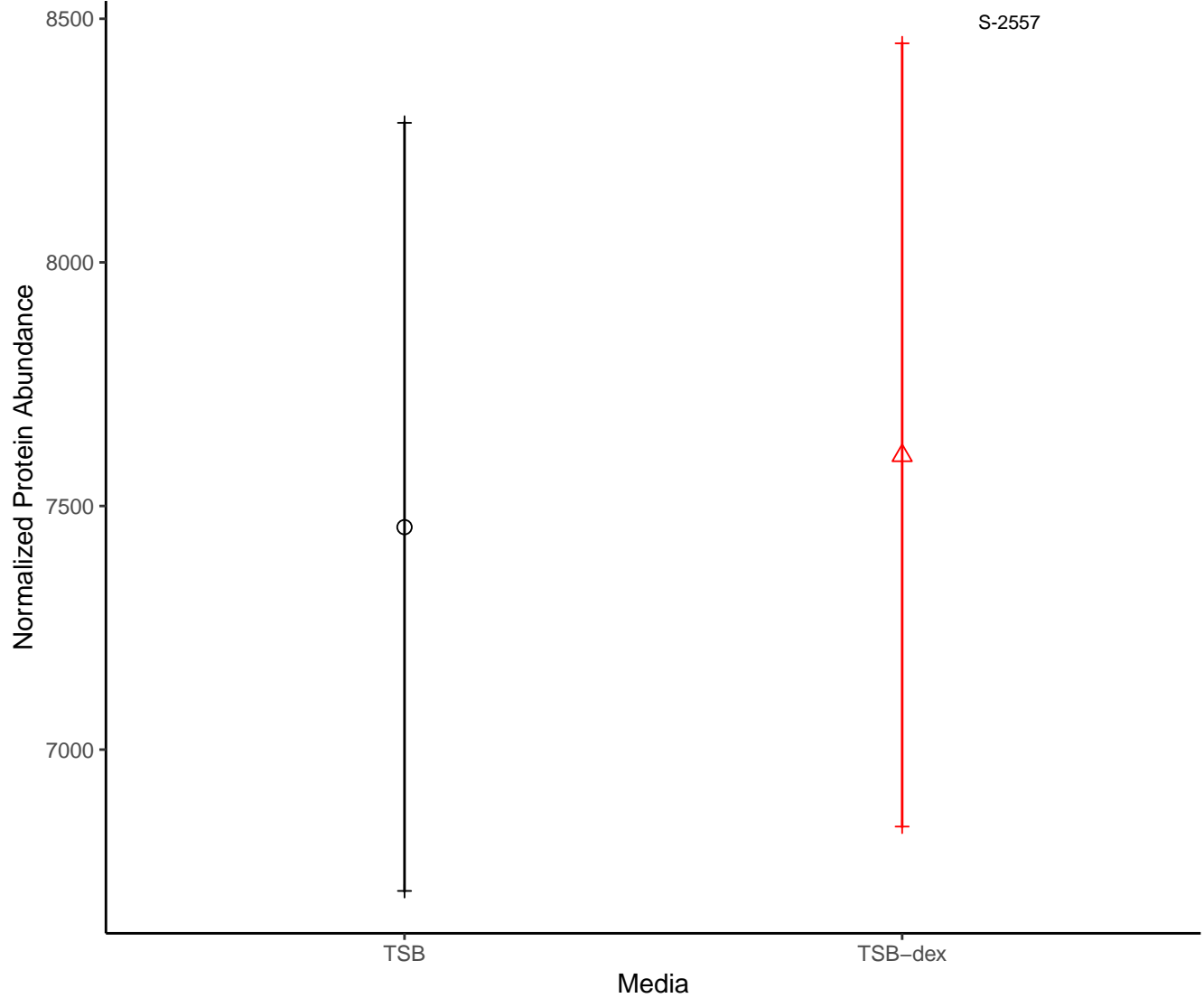
S-2556



⊕ TSB-dex

△ TSB

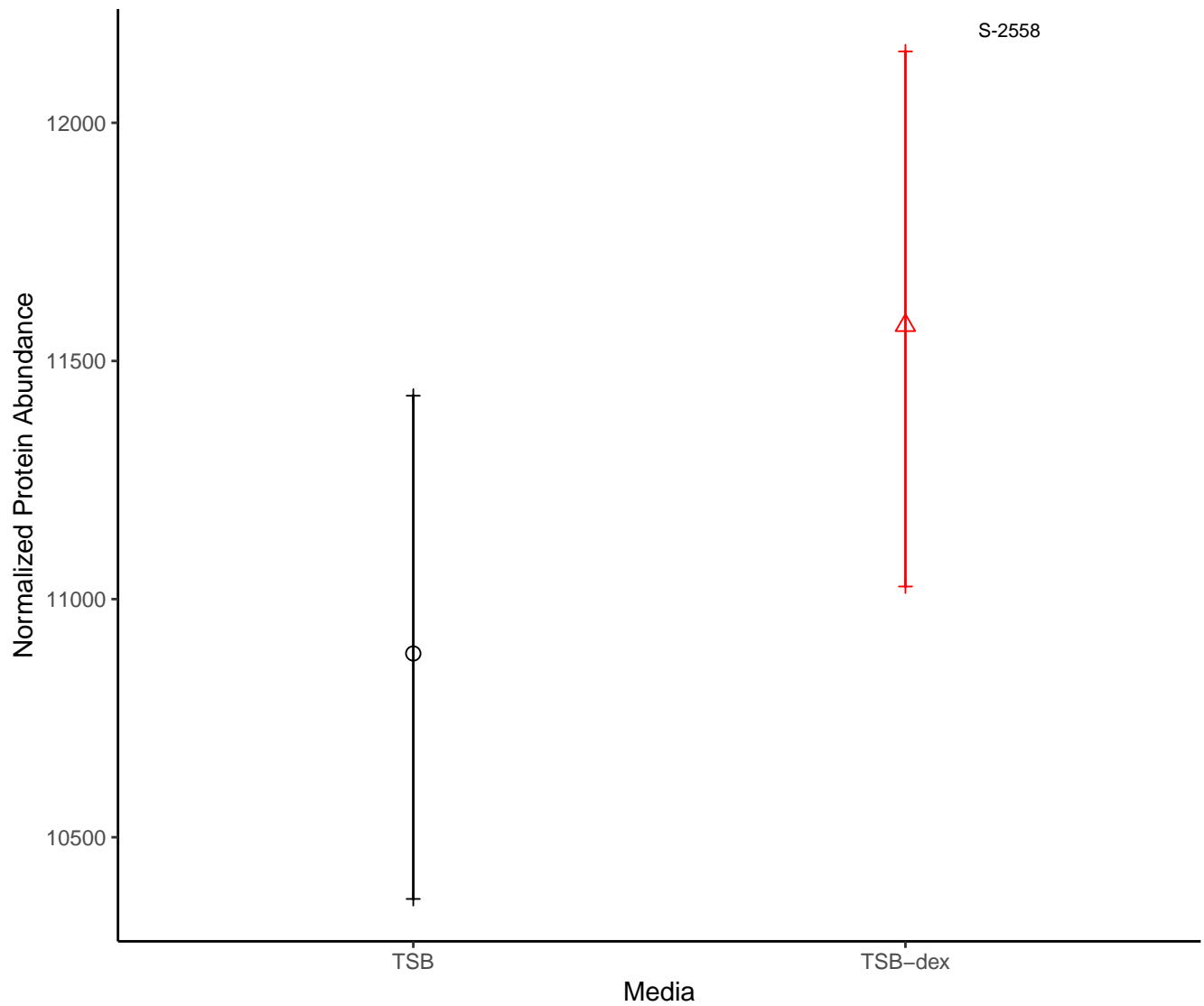
# CH10\_STAAM



⊕ TSB-dex

△ TSB

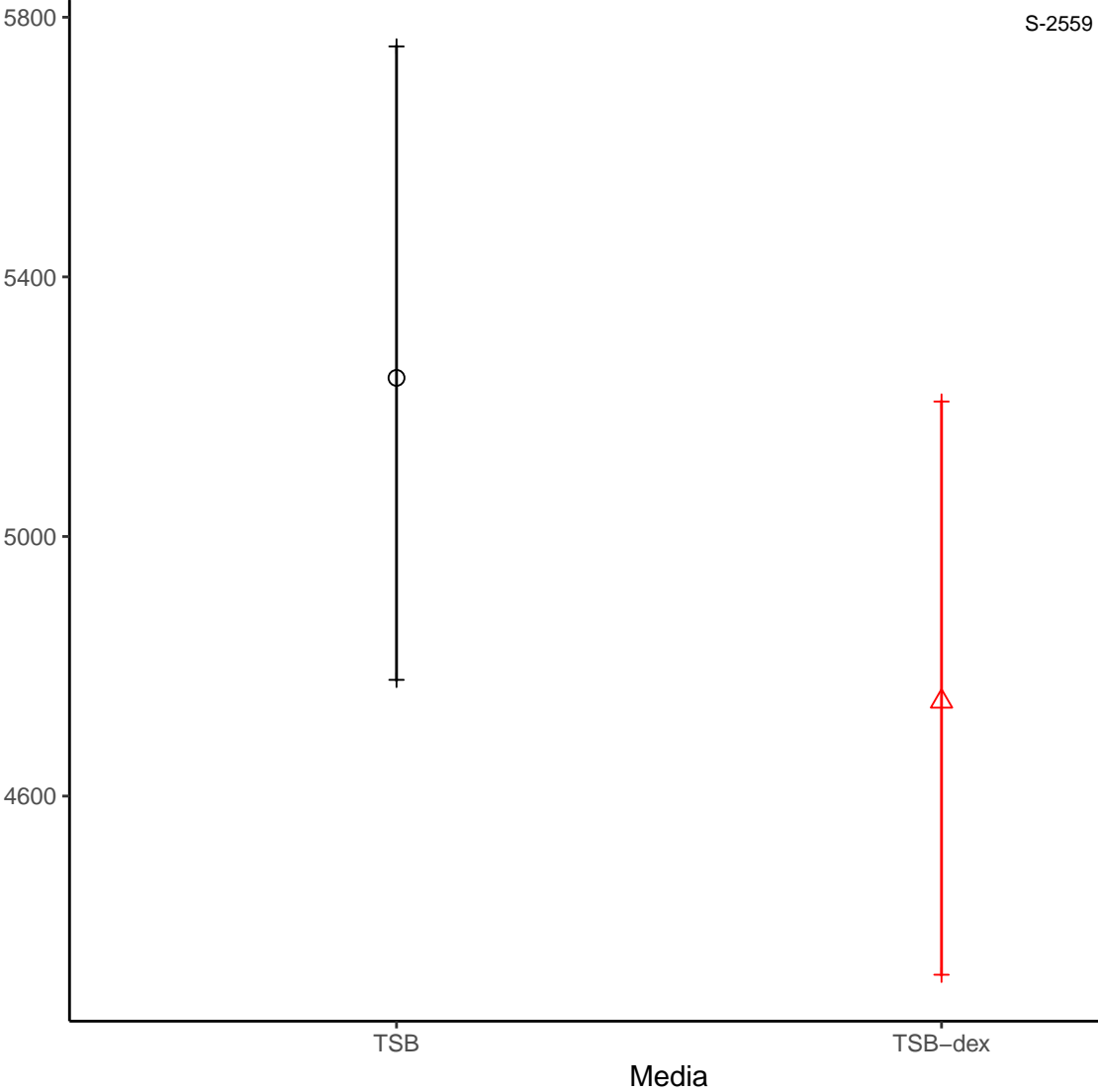
# CH60\_STAAM



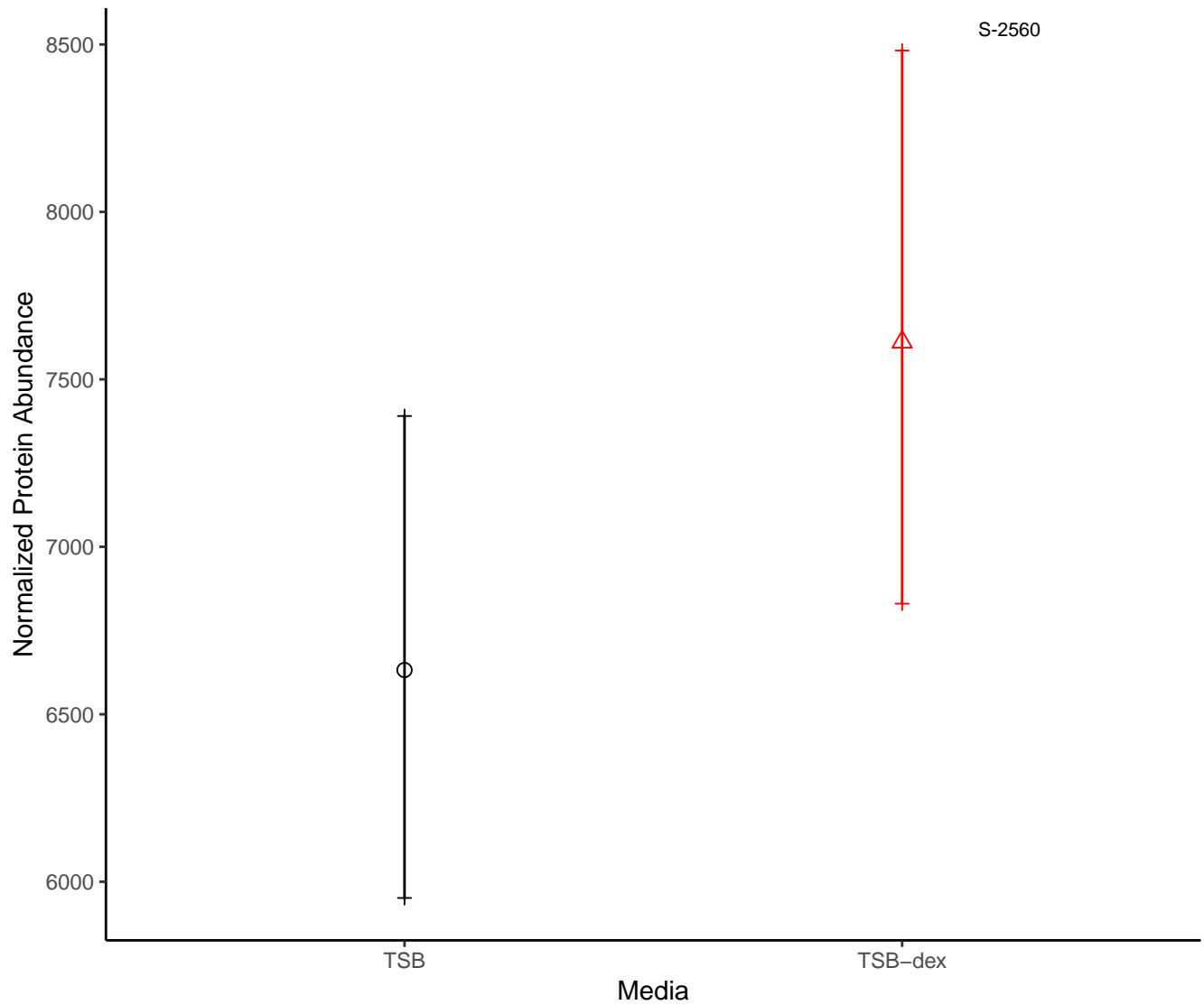
⊖ TSB-dex

△ TSB

# CLPB\_STAAM



# CLPC\_STAAM

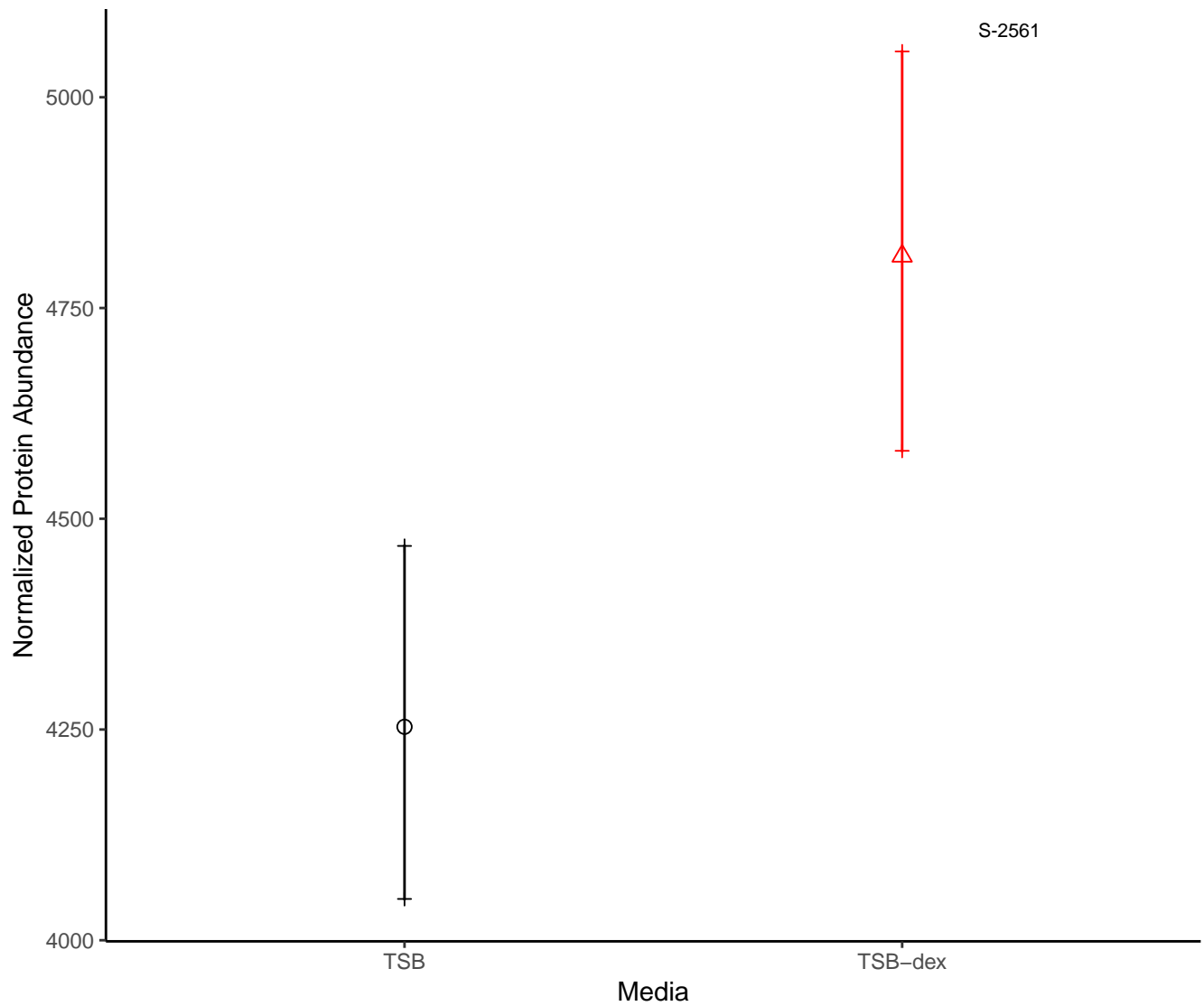


⊕ TSB-dex

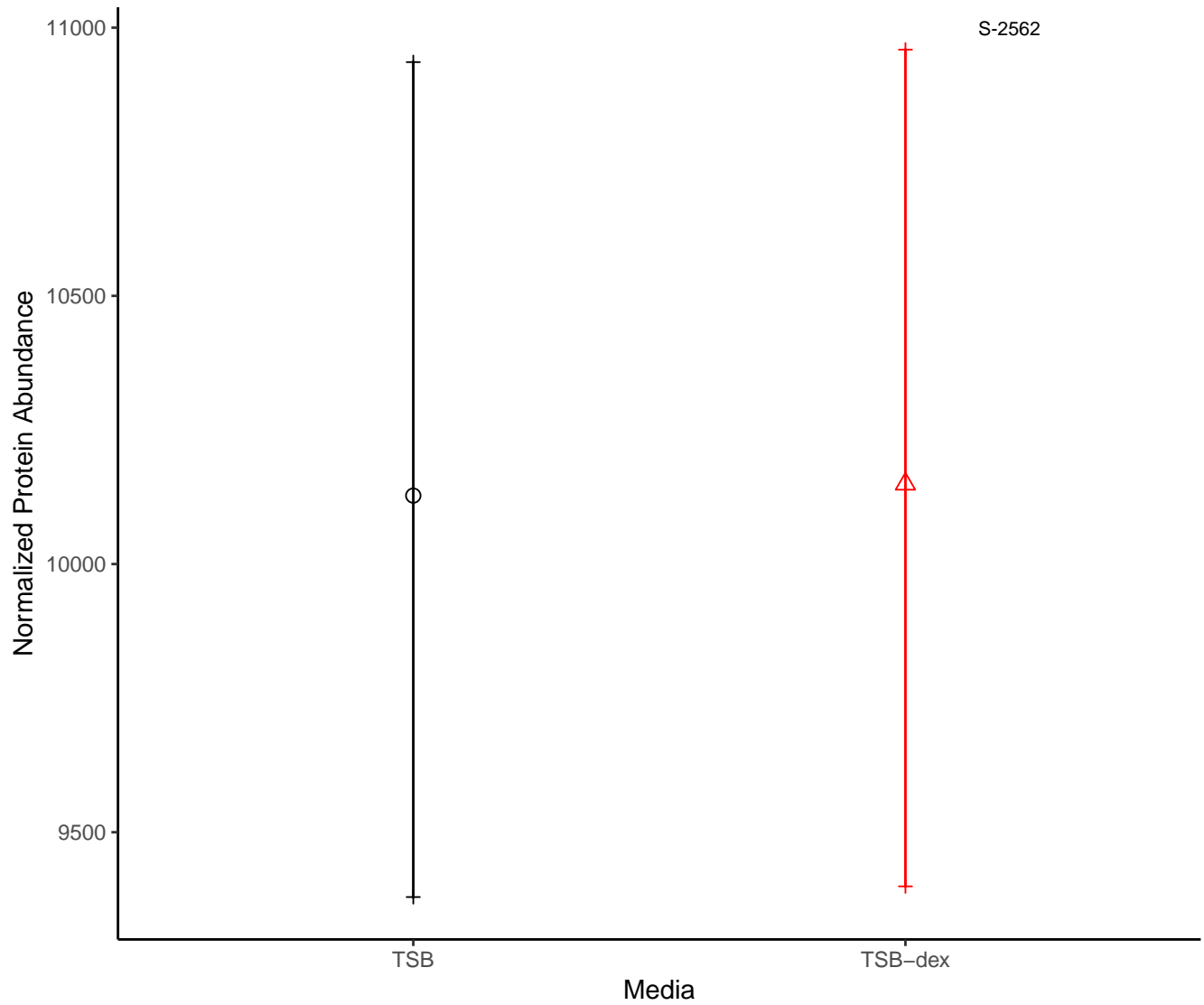
△ TSB



# CLPL\_STAAM



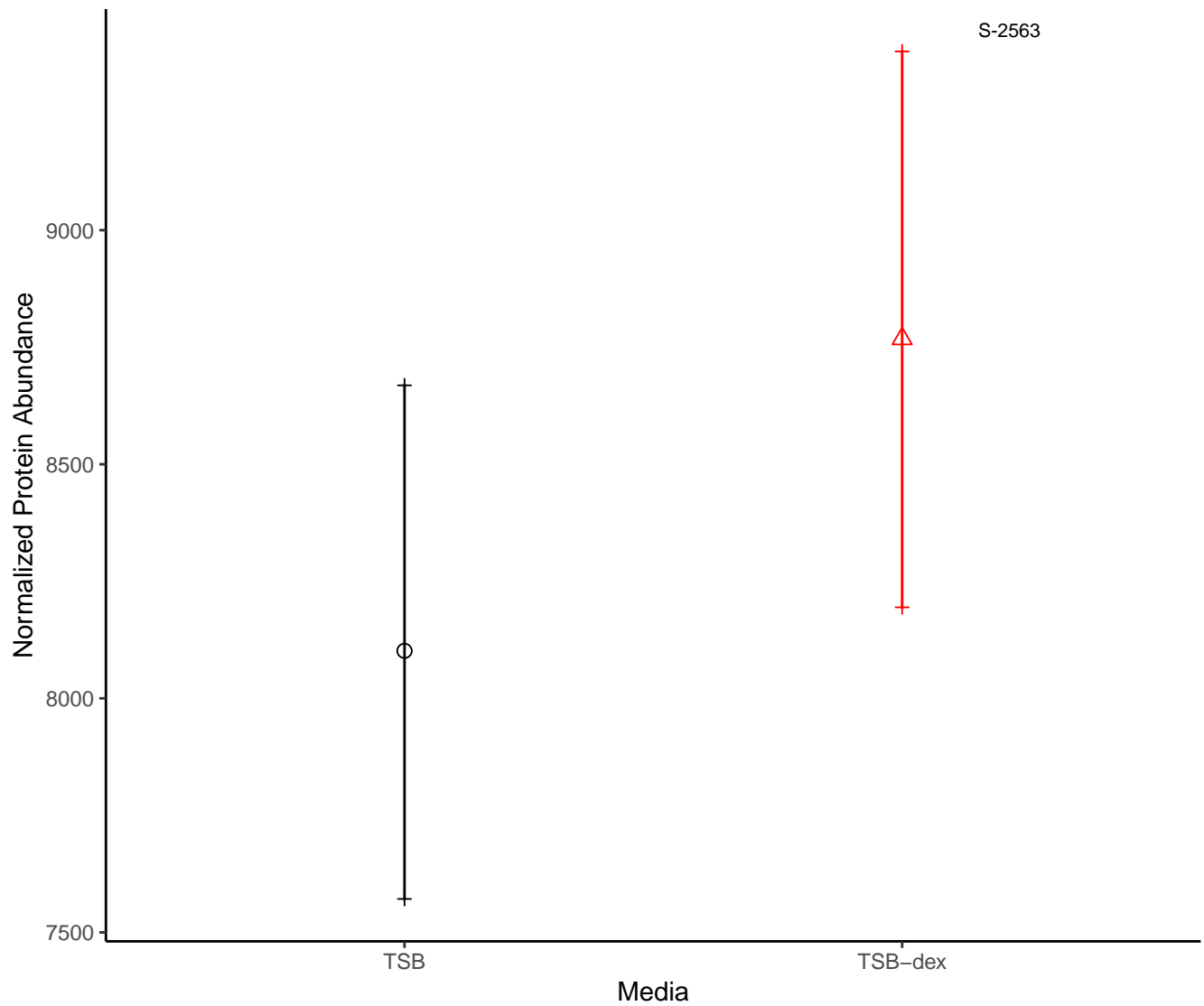
# CLPP\_STAAM



⊖ TSB-dex

△ TSB

# CLPX\_STAAM

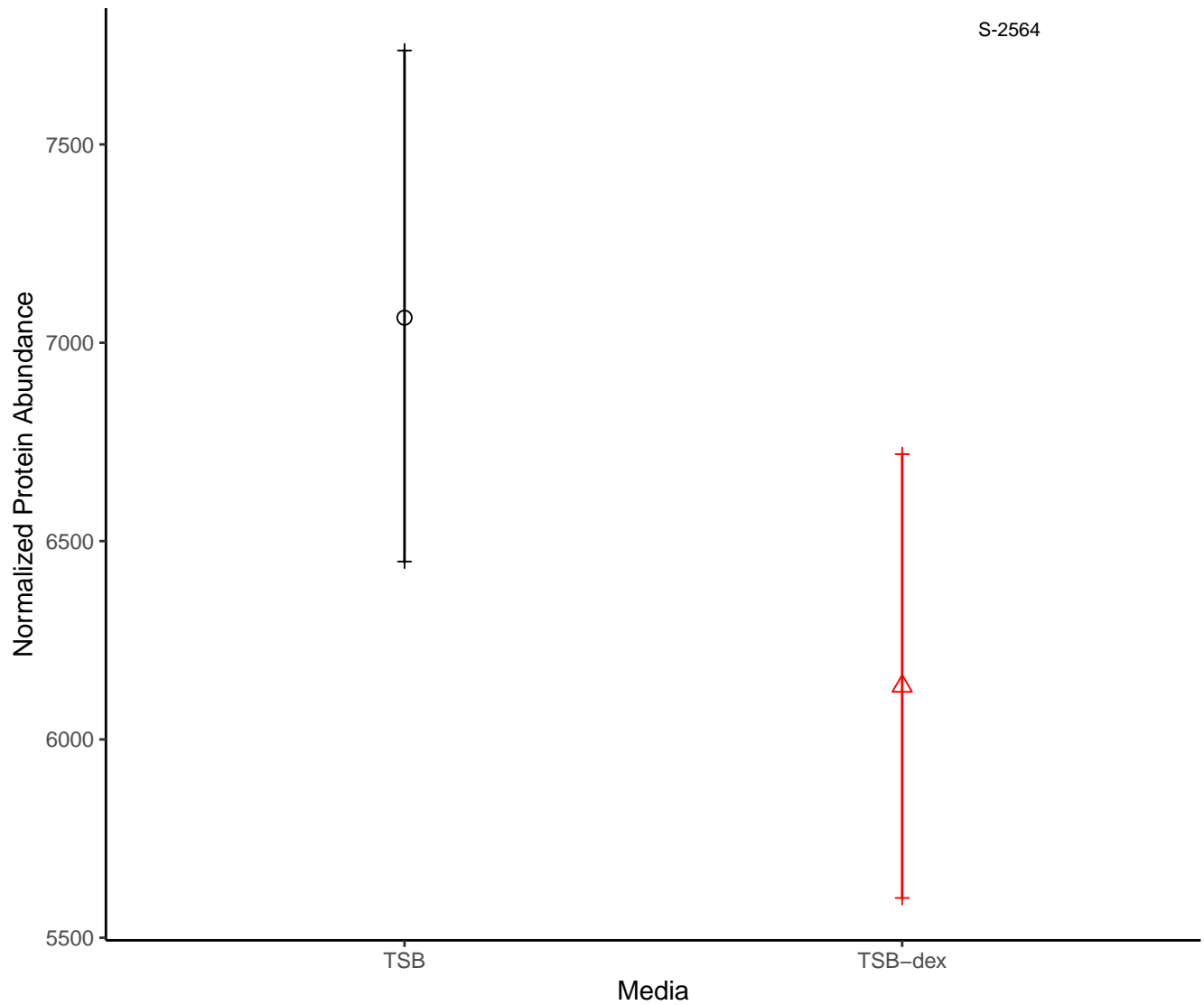


⊕ TSB-dex

△ TSB

# CODY\_STAAM

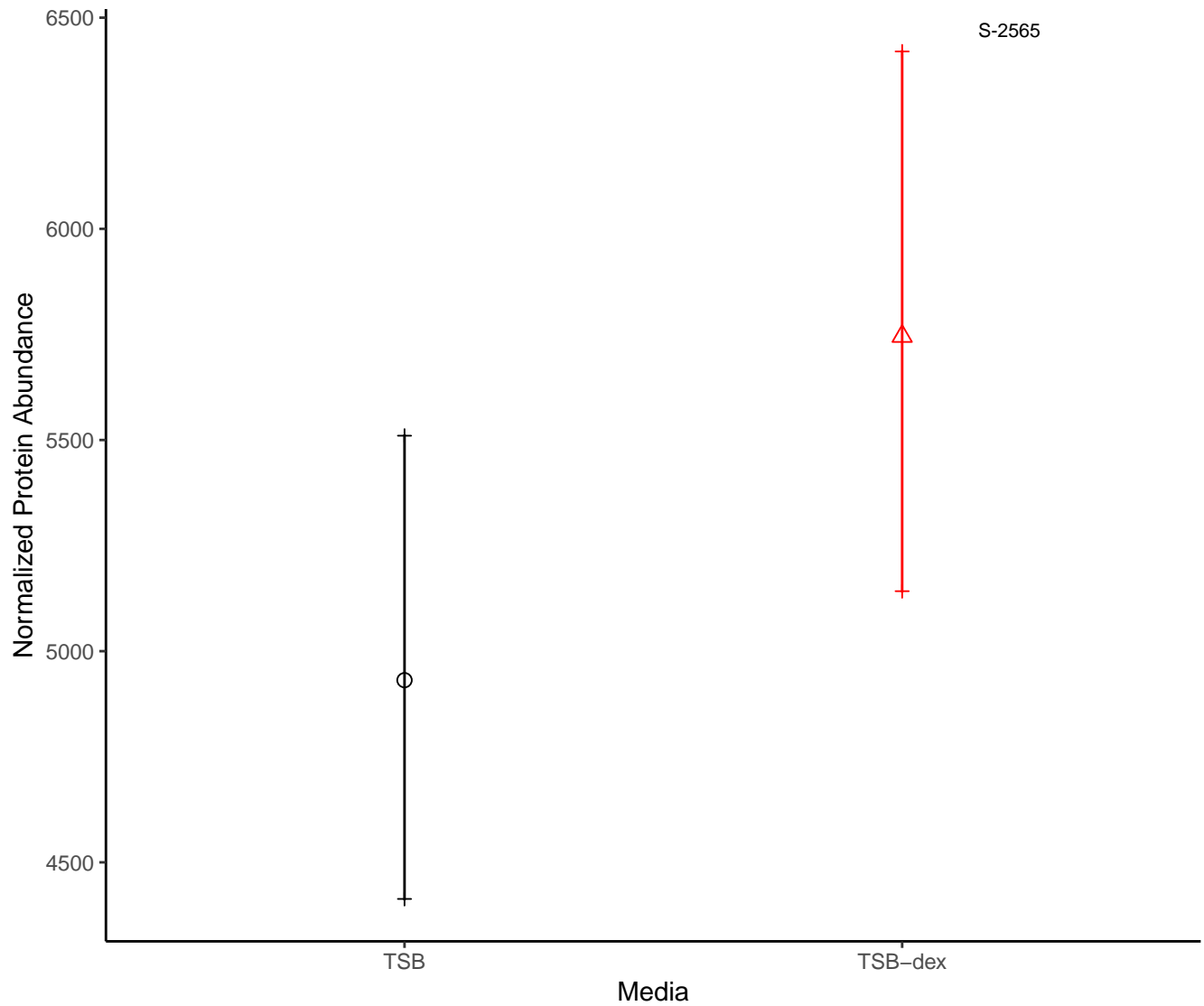
S-2564



⊕ TSB-dex

△ TSB

# COPZ\_STAAM

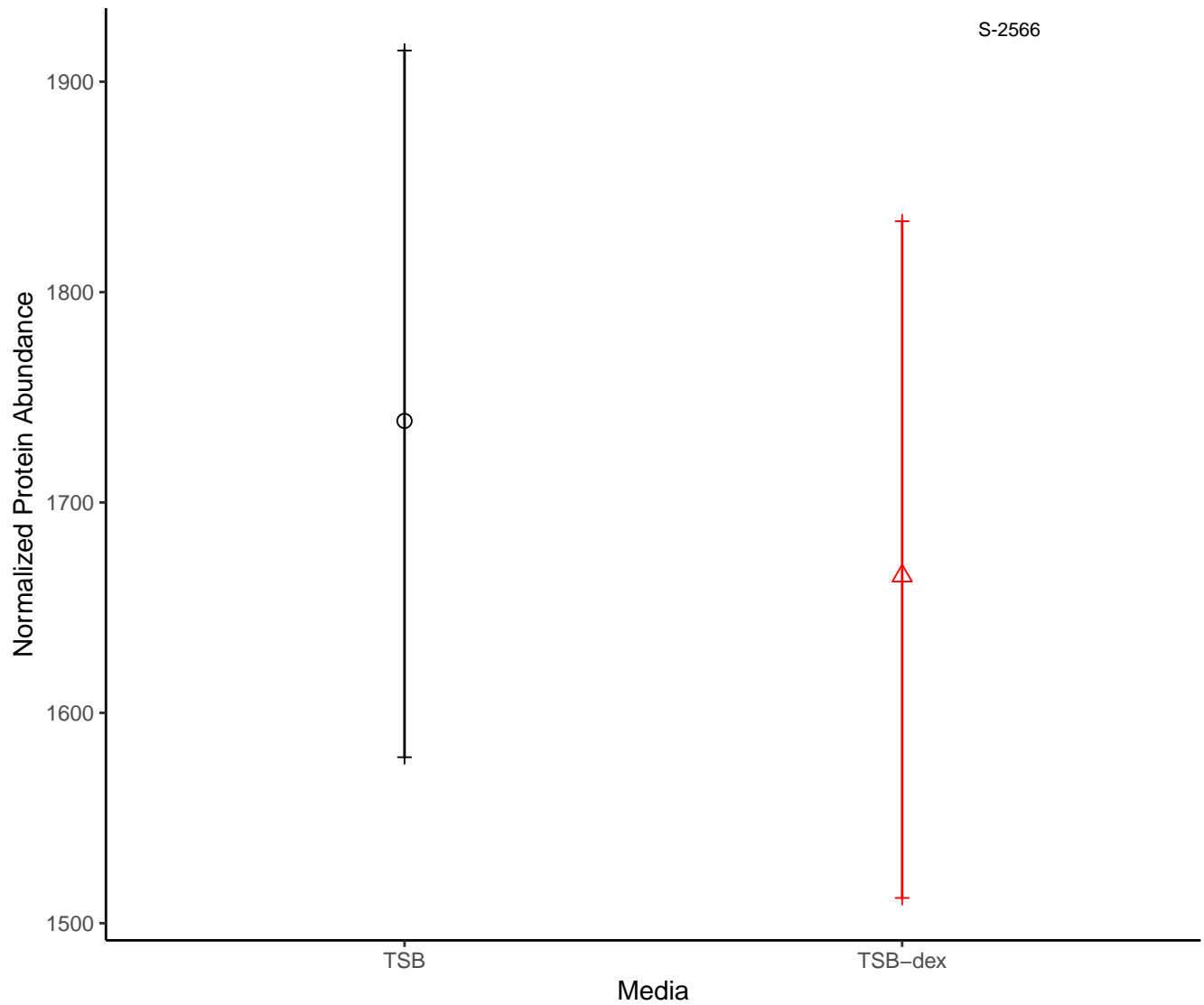


⊕ TSB-dex

△ TSB

# CRTN\_STAAM

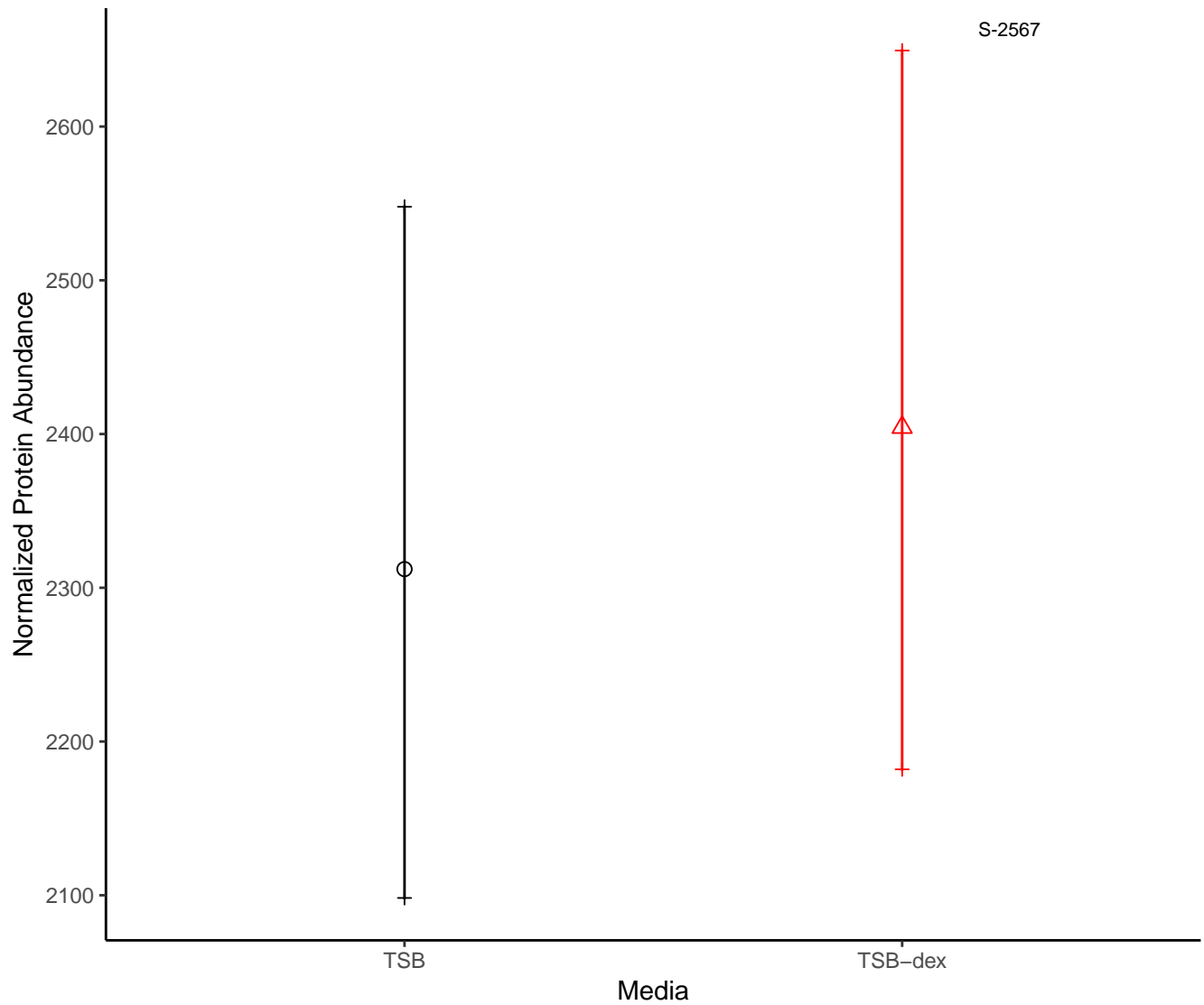
S-2566



⊕ TSB-dex

△ TSB

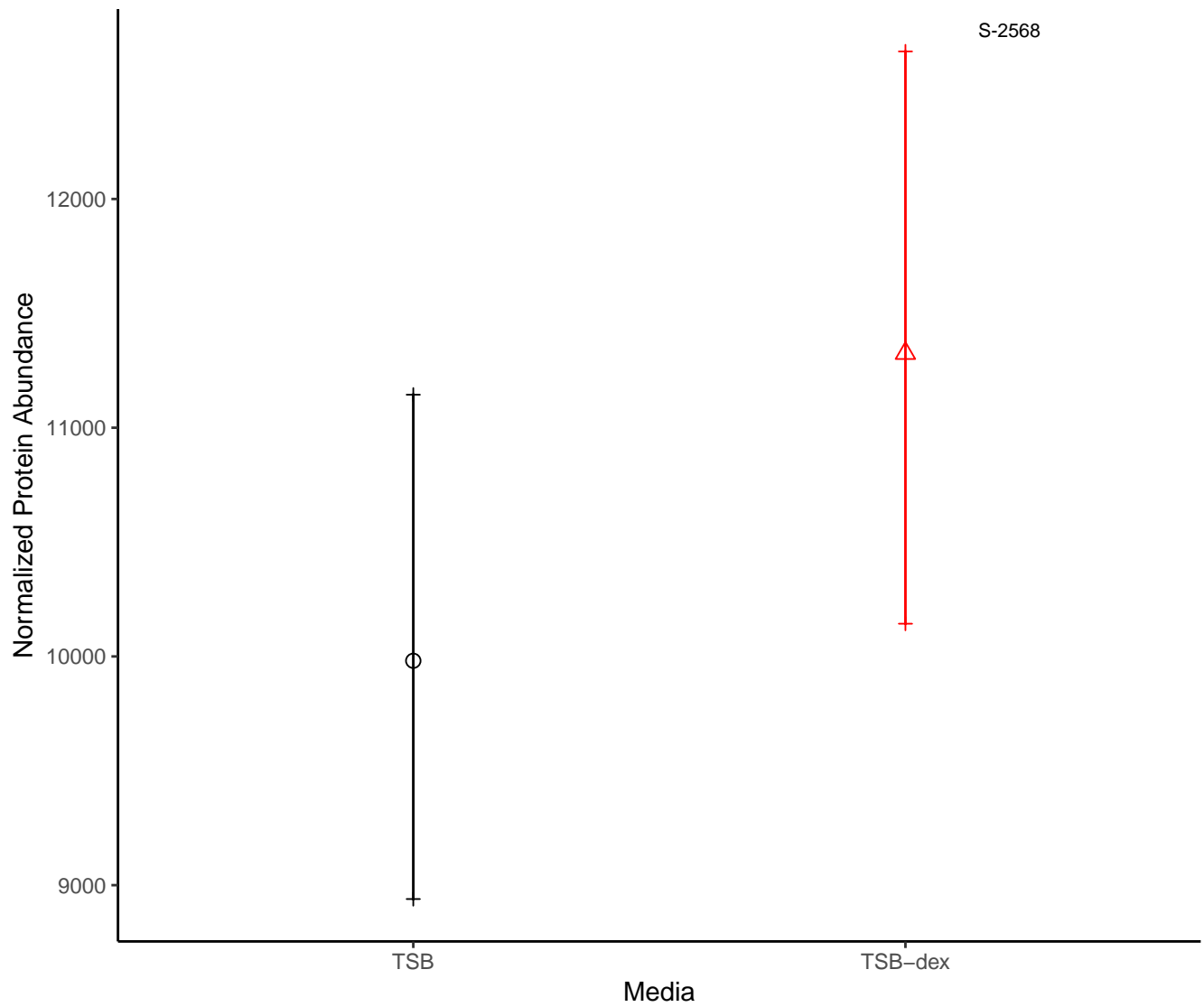
# CSD\_STAAM



⊕ TSB-dex

△ TSB

# CSHA\_STAAM

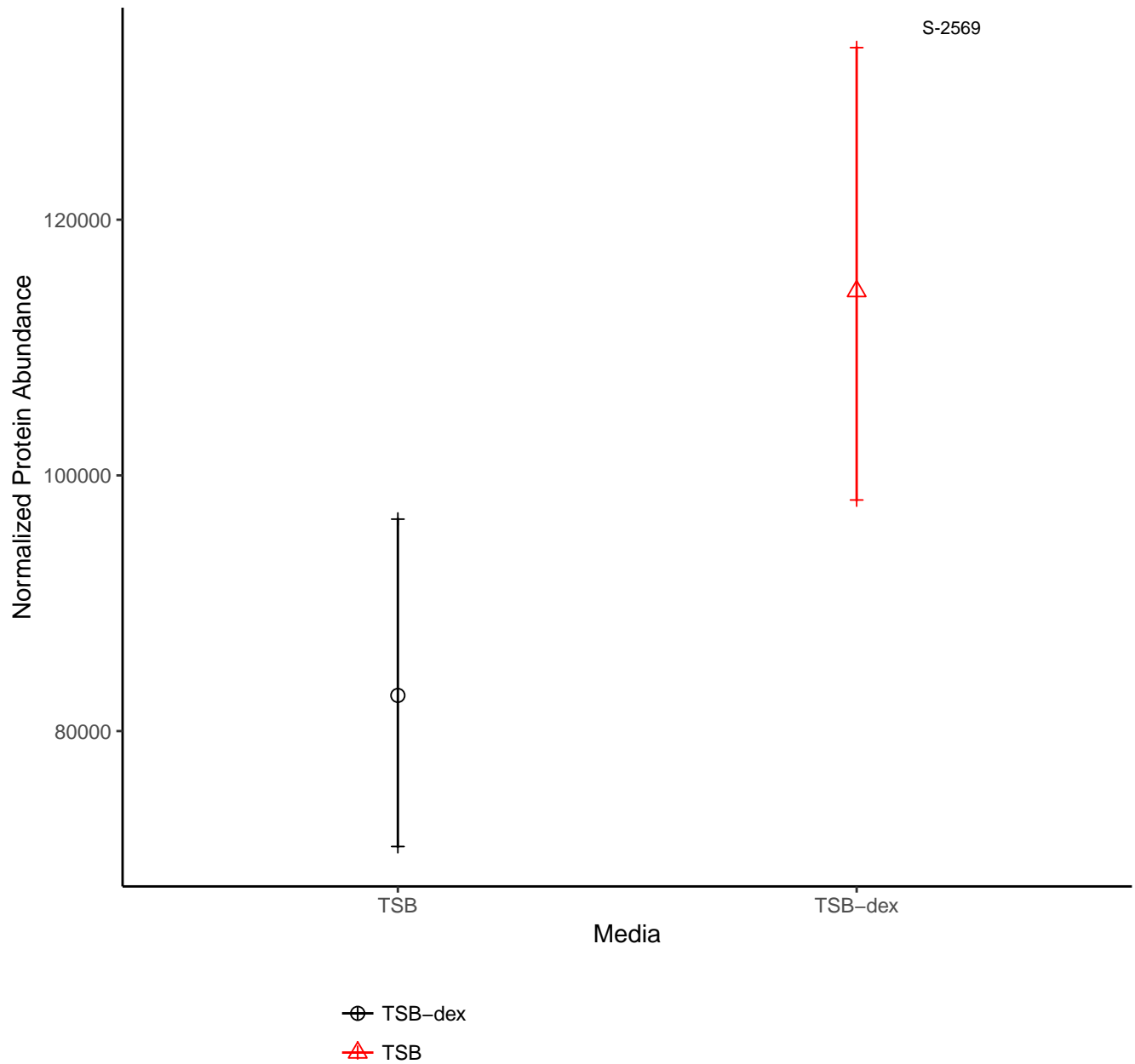


⊕ TSB-dex

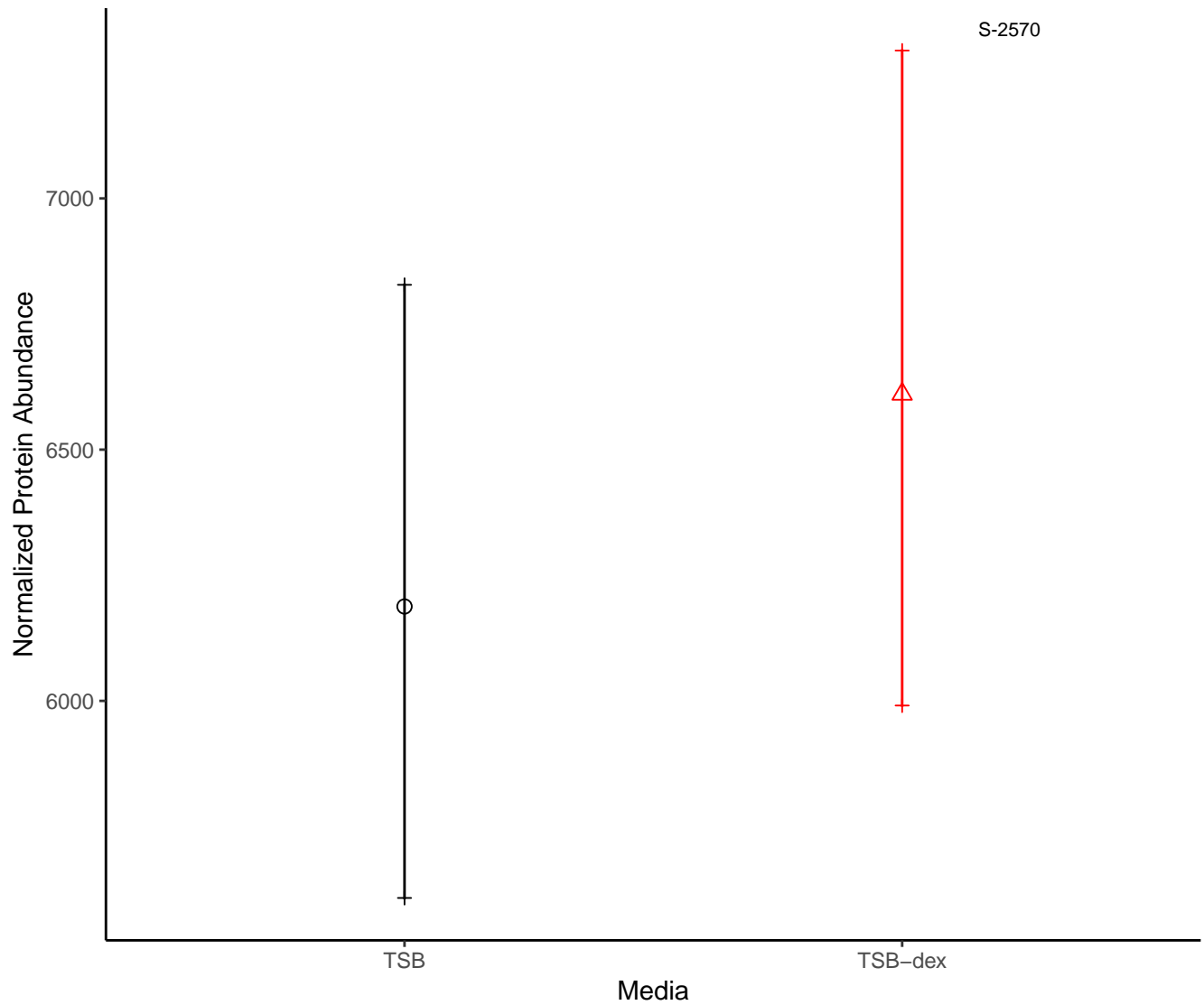
△ TSB



# CSPA\_STAAM



# CTPAL\_STAAM

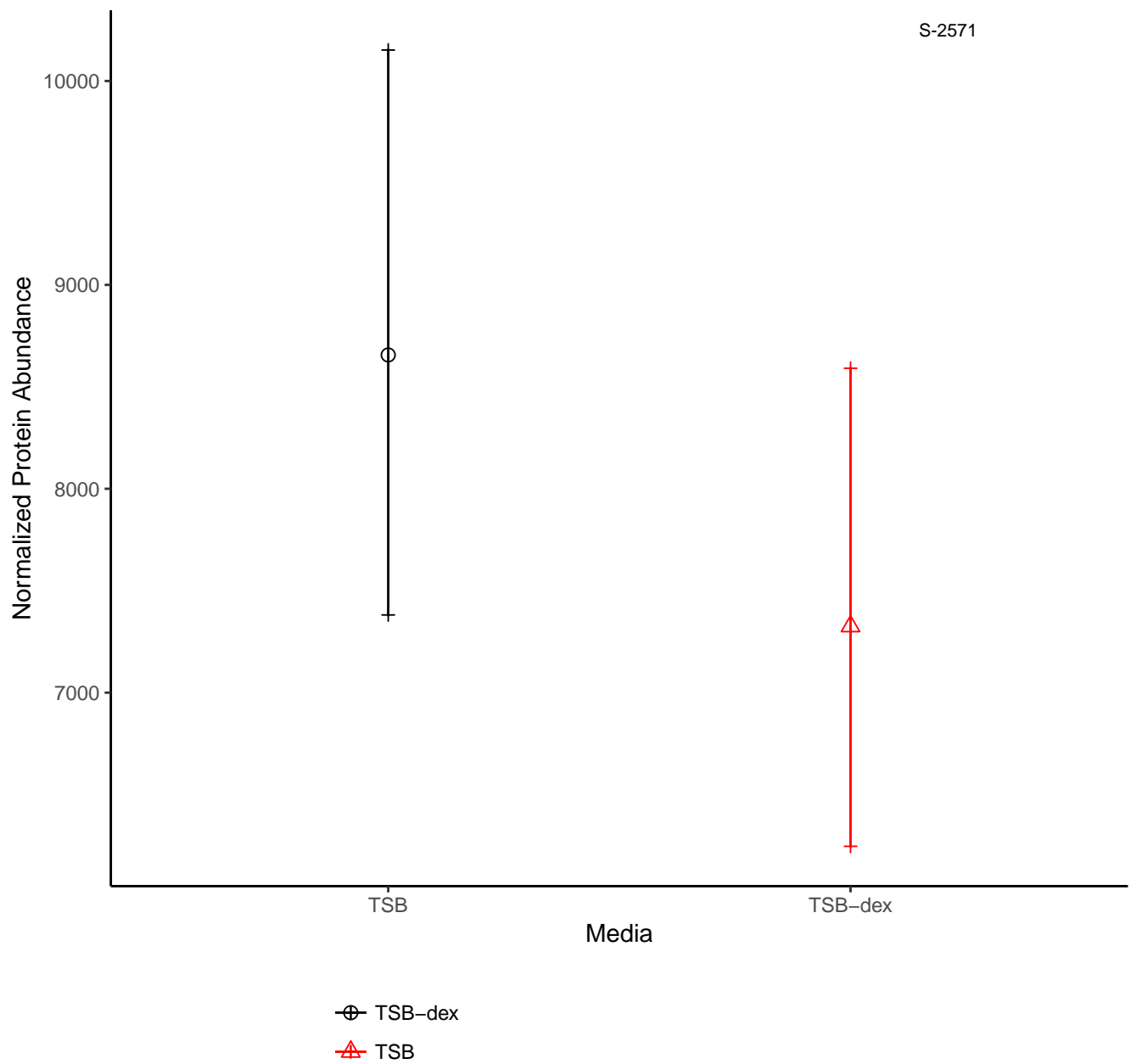


⊕ TSB-dex

△ TSB

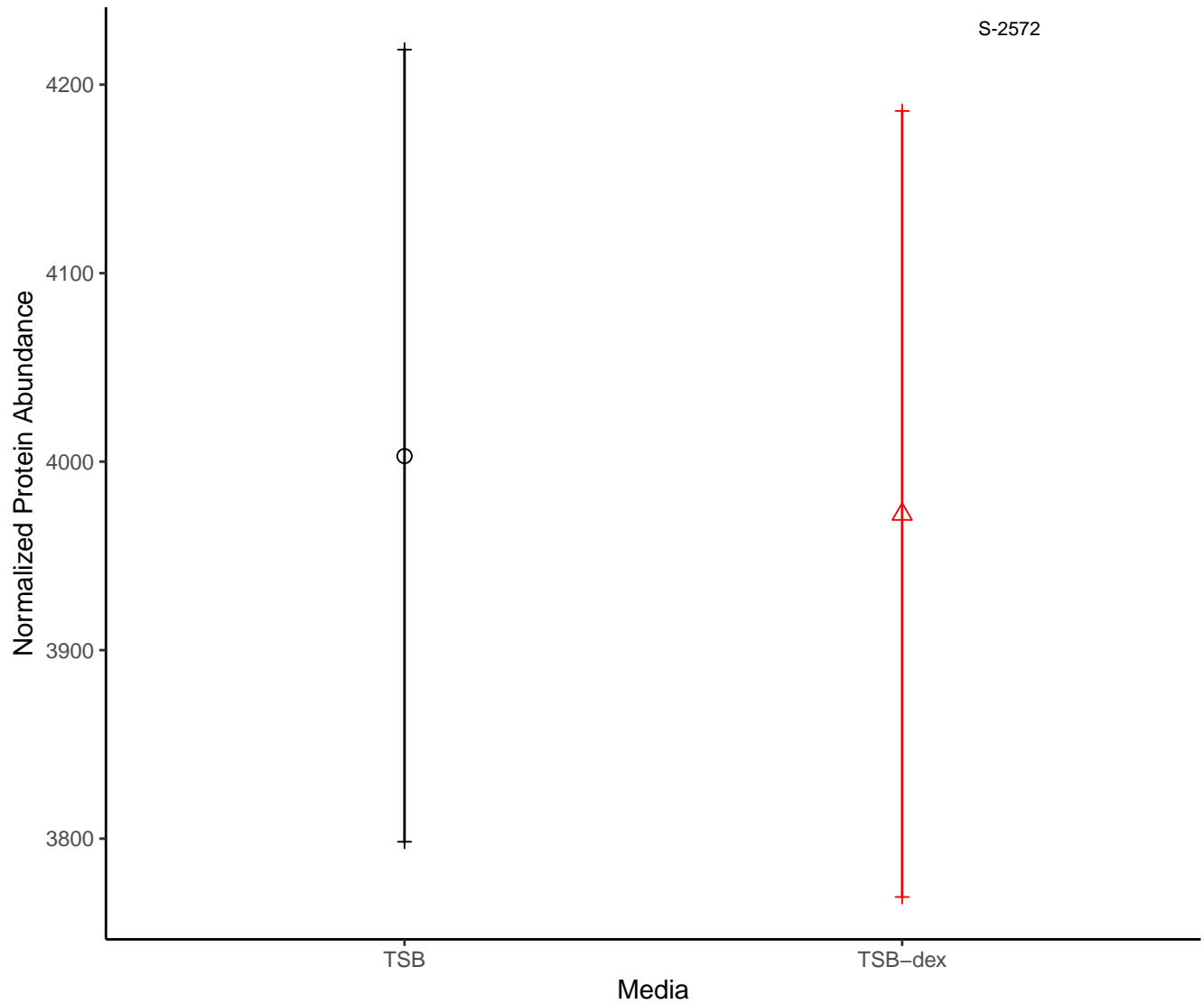
# CVFB\_STAAM

S-2571



# CYSE\_STAAM

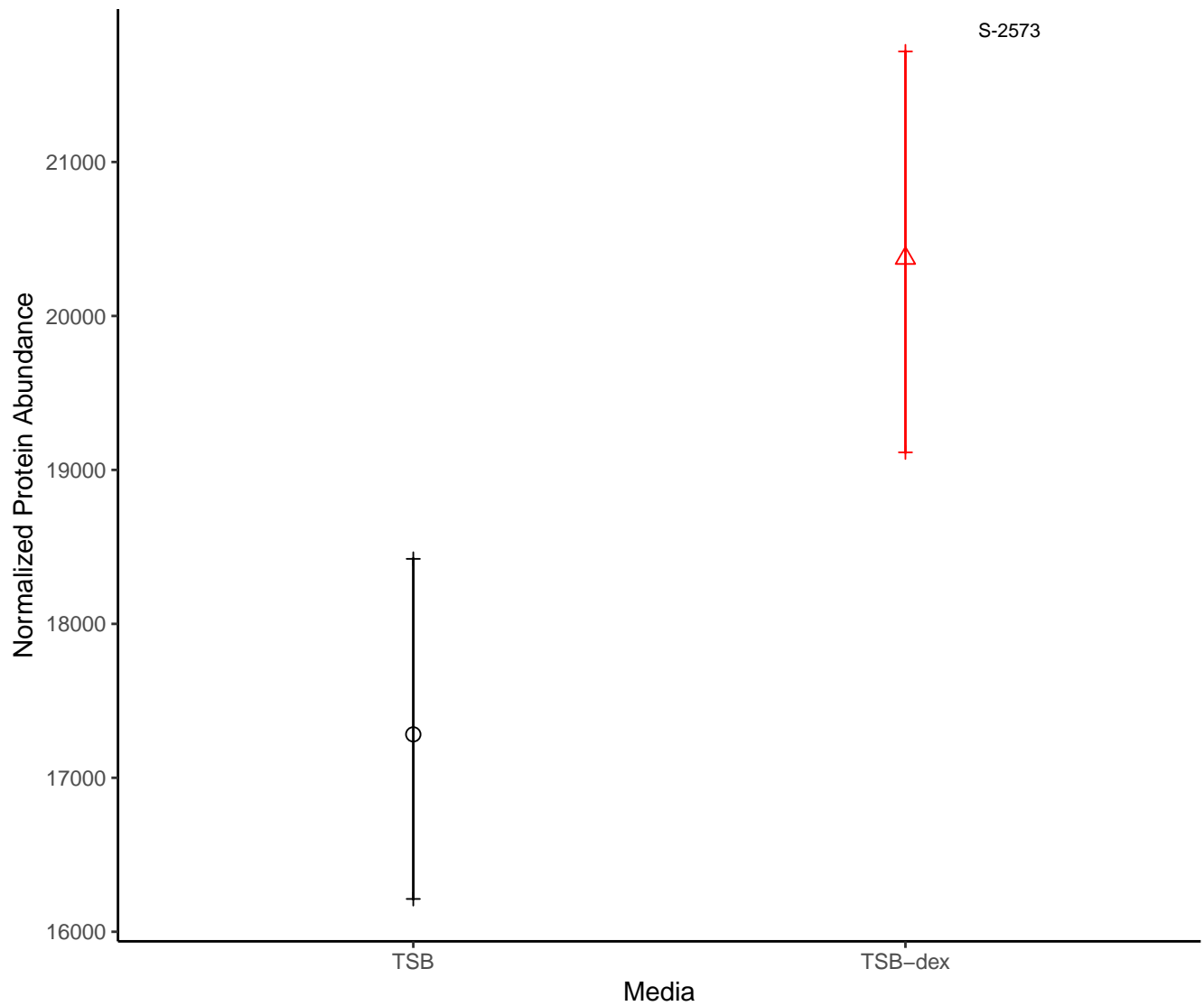
S-2572



⊕ TSB-dex

△ TSB

# CYSK\_STAAM

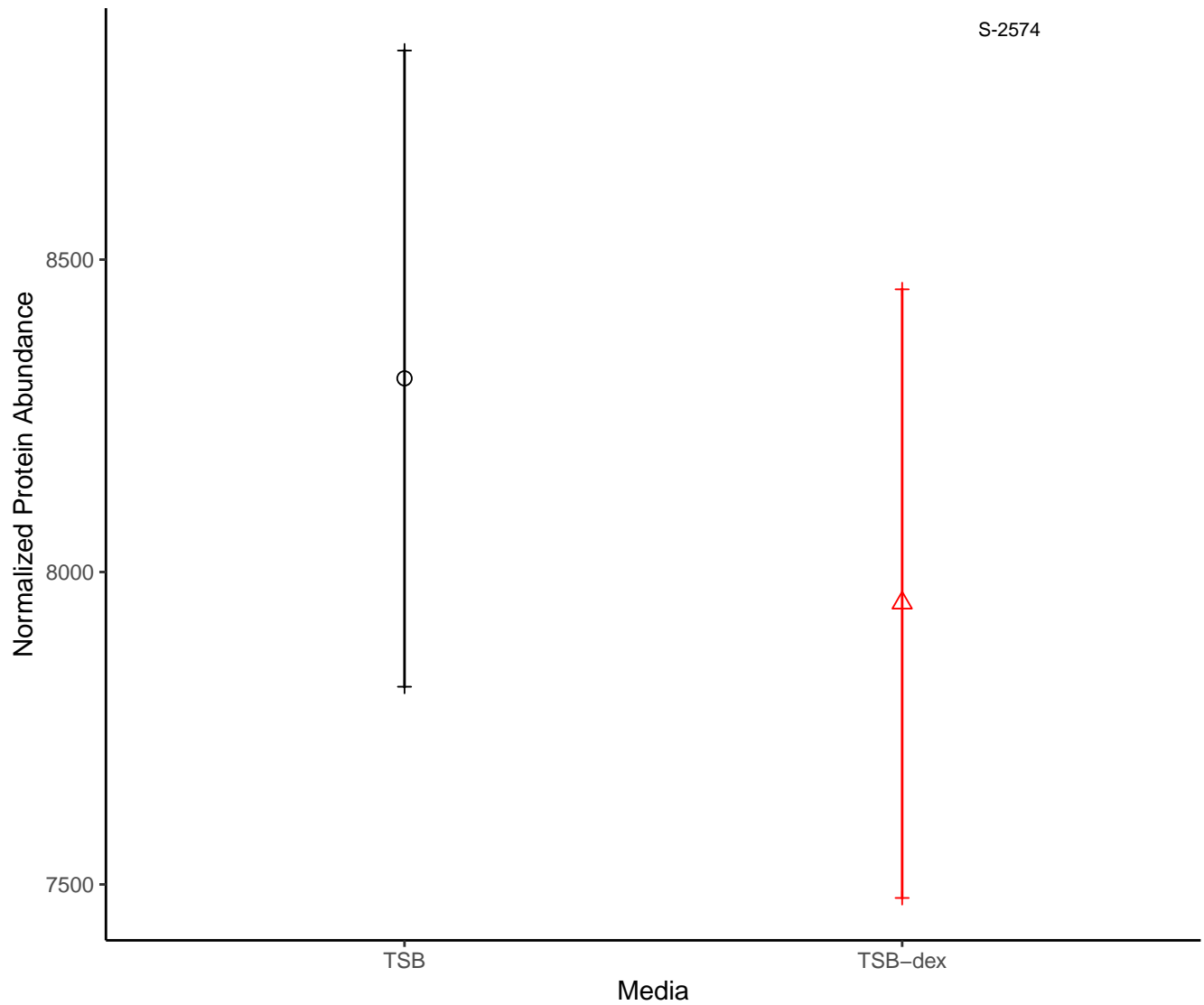


⊖ TSB-dex

△ TSB

# DAAA\_STAAM

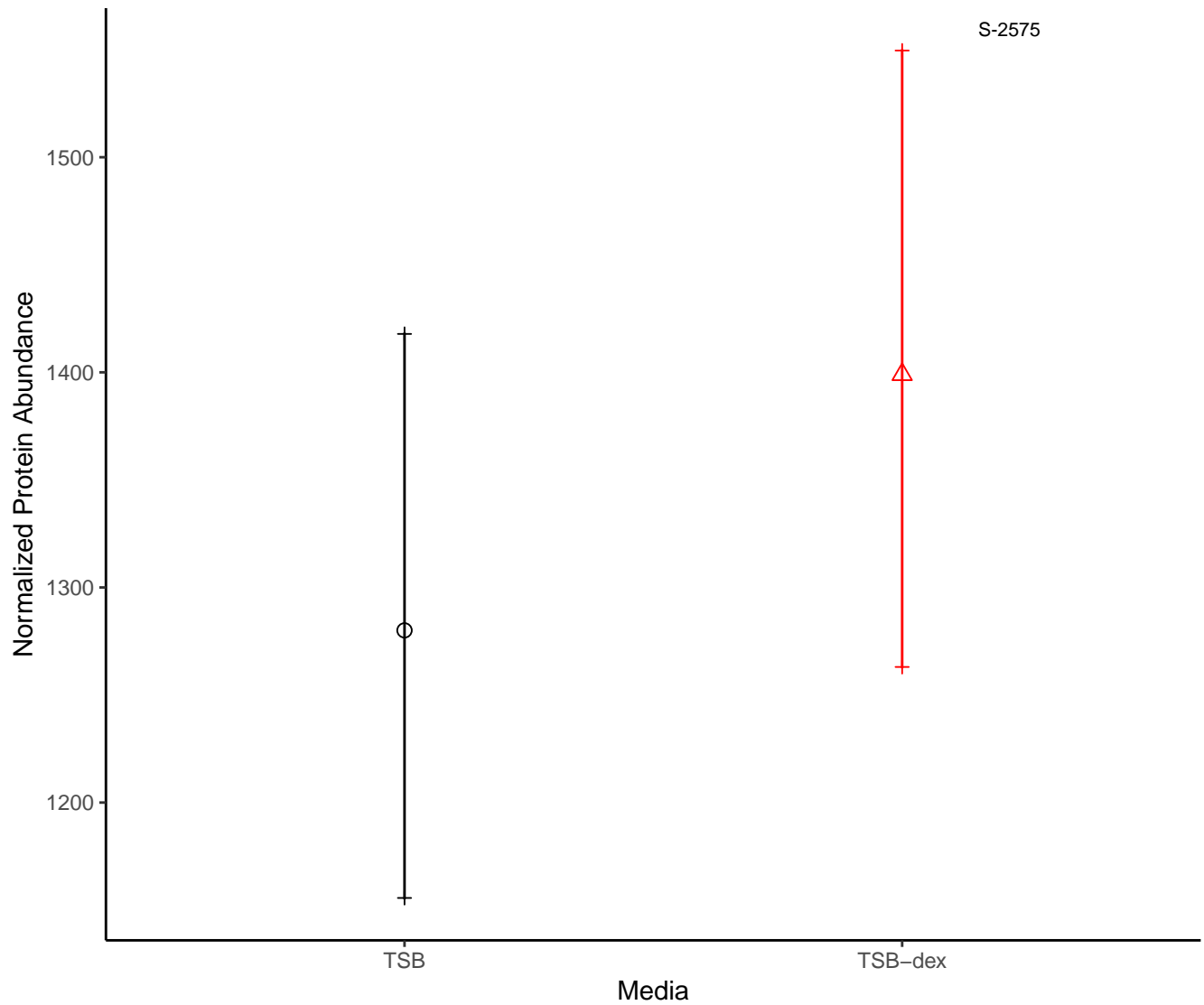
S-2574



⊕ TSB-dex

△ TSB

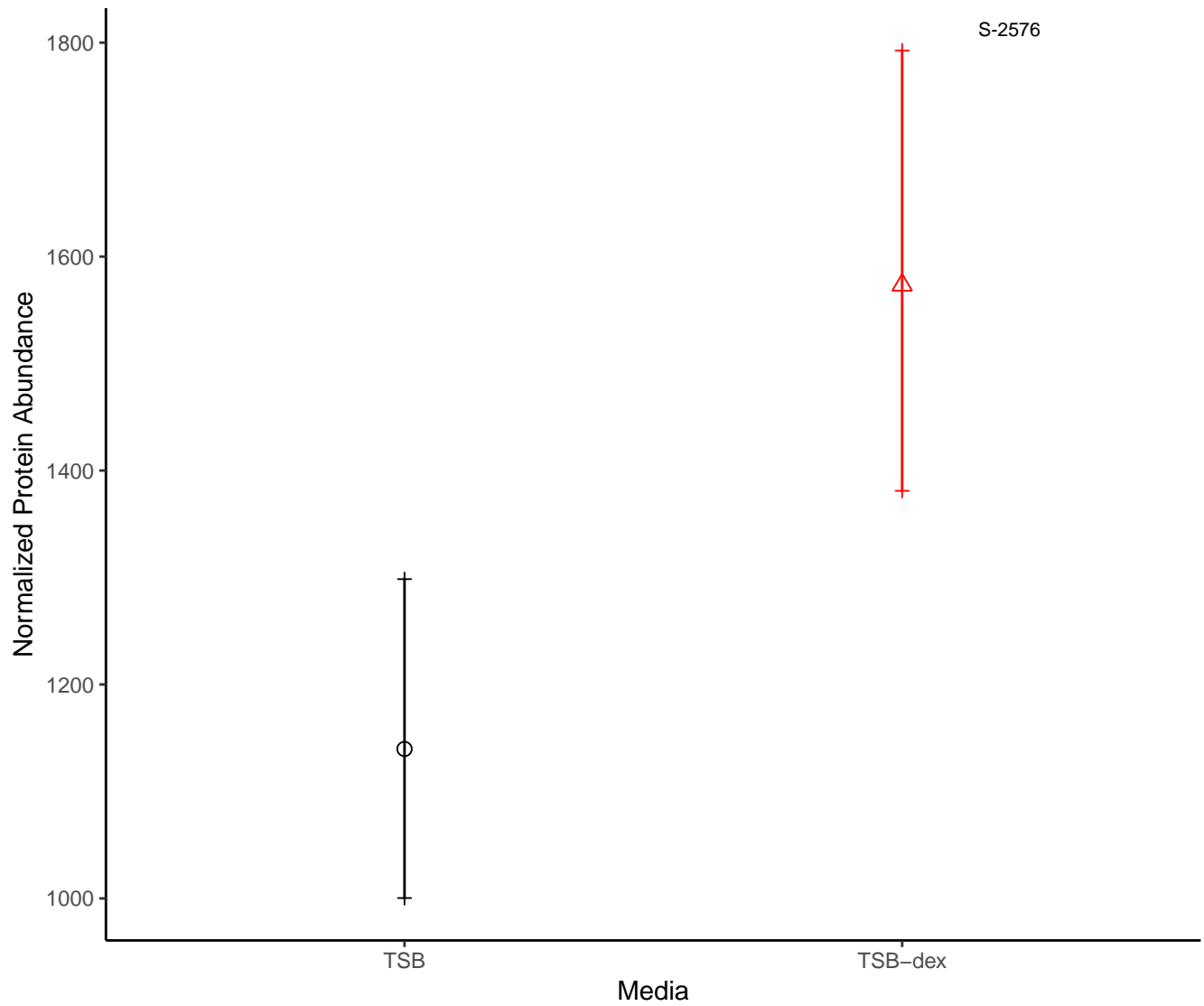
# DAPB\_STAAM



⊕ TSB-dex

△ TSB

# DAPH\_STAAM

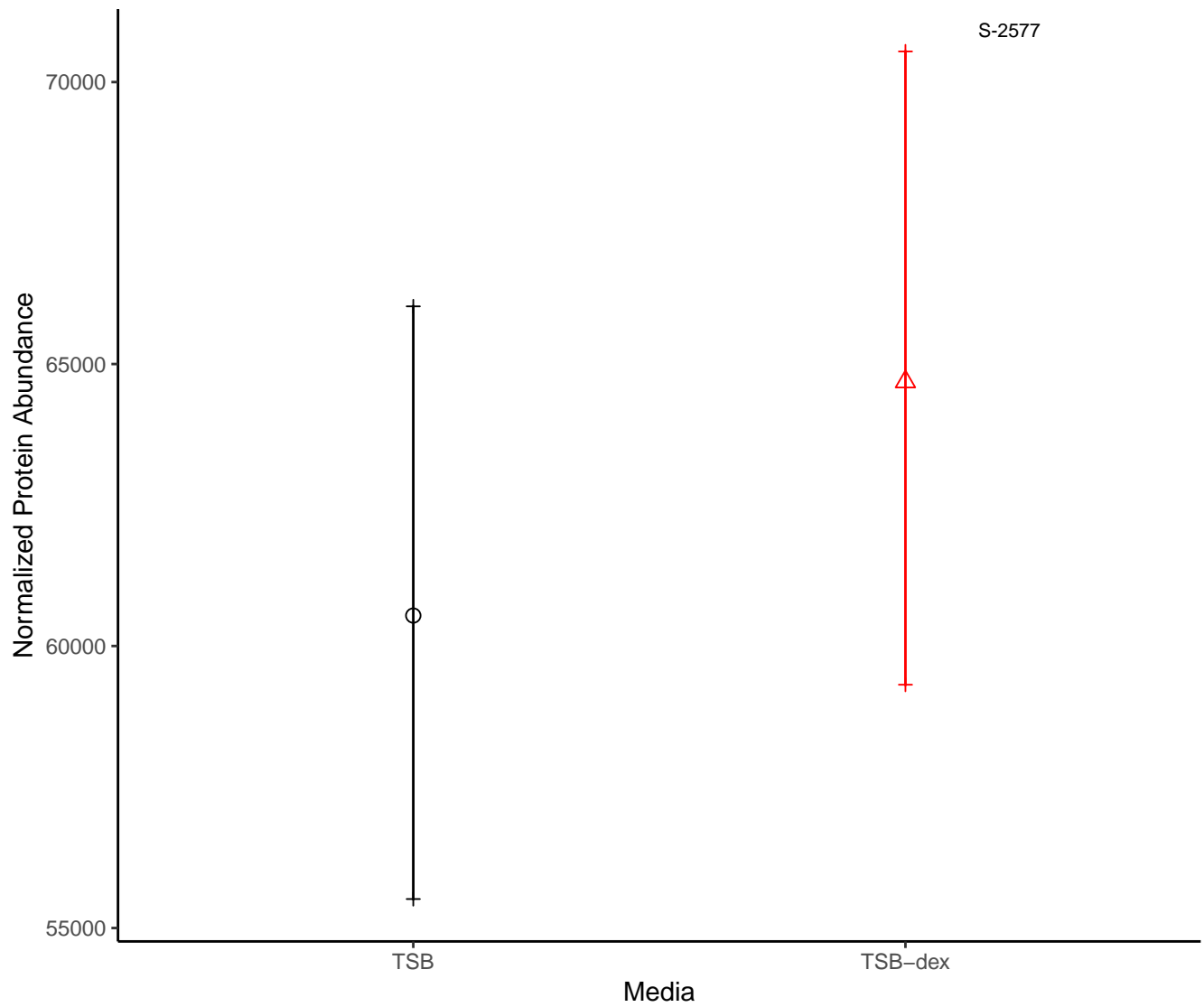


⊕ TSB-dex

△ TSB



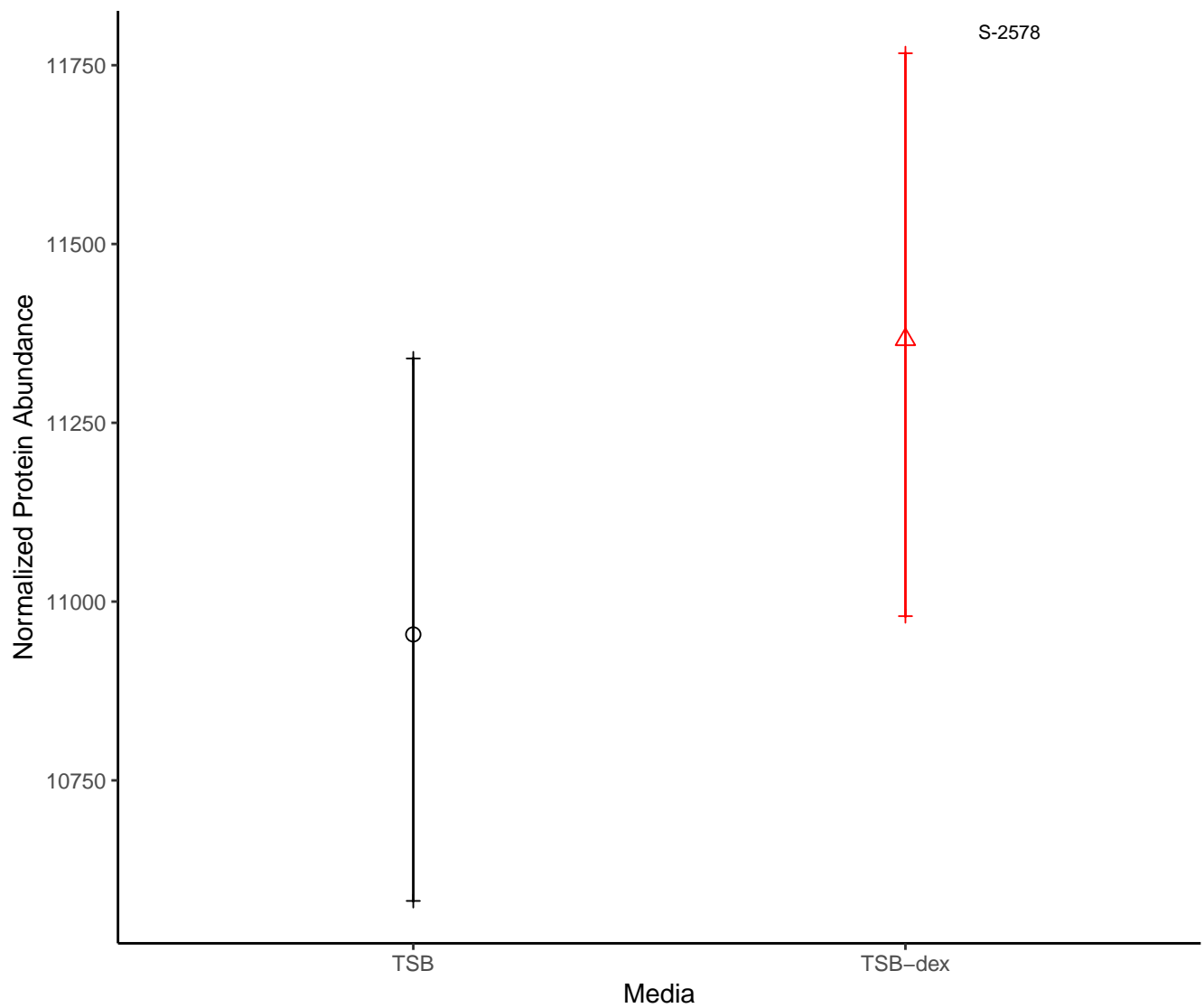
# DBH\_STAAM



⊕ TSB-dex

△ TSB

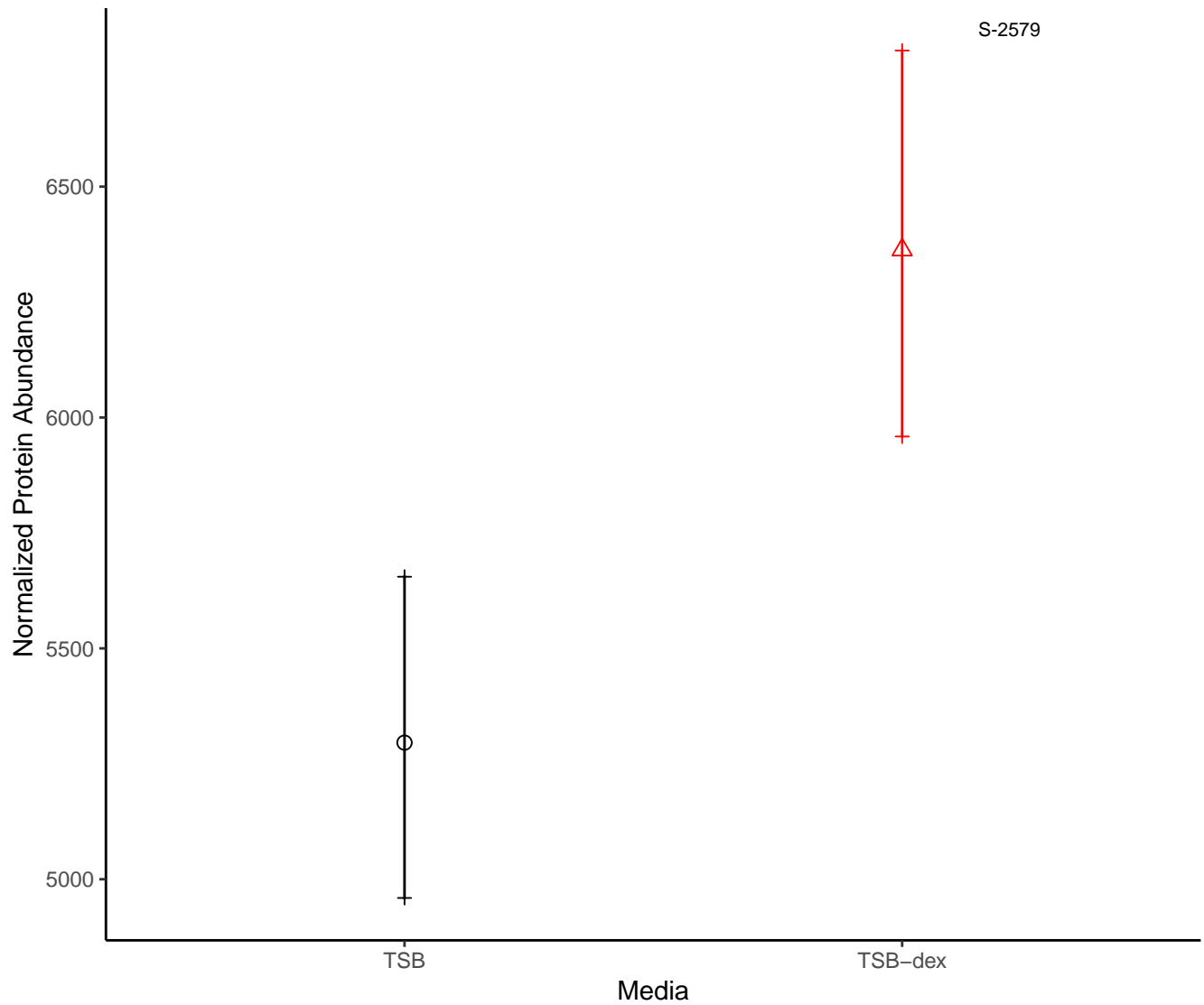
# DCUP\_STAAM



⊕ TSB-dex

△ TSB

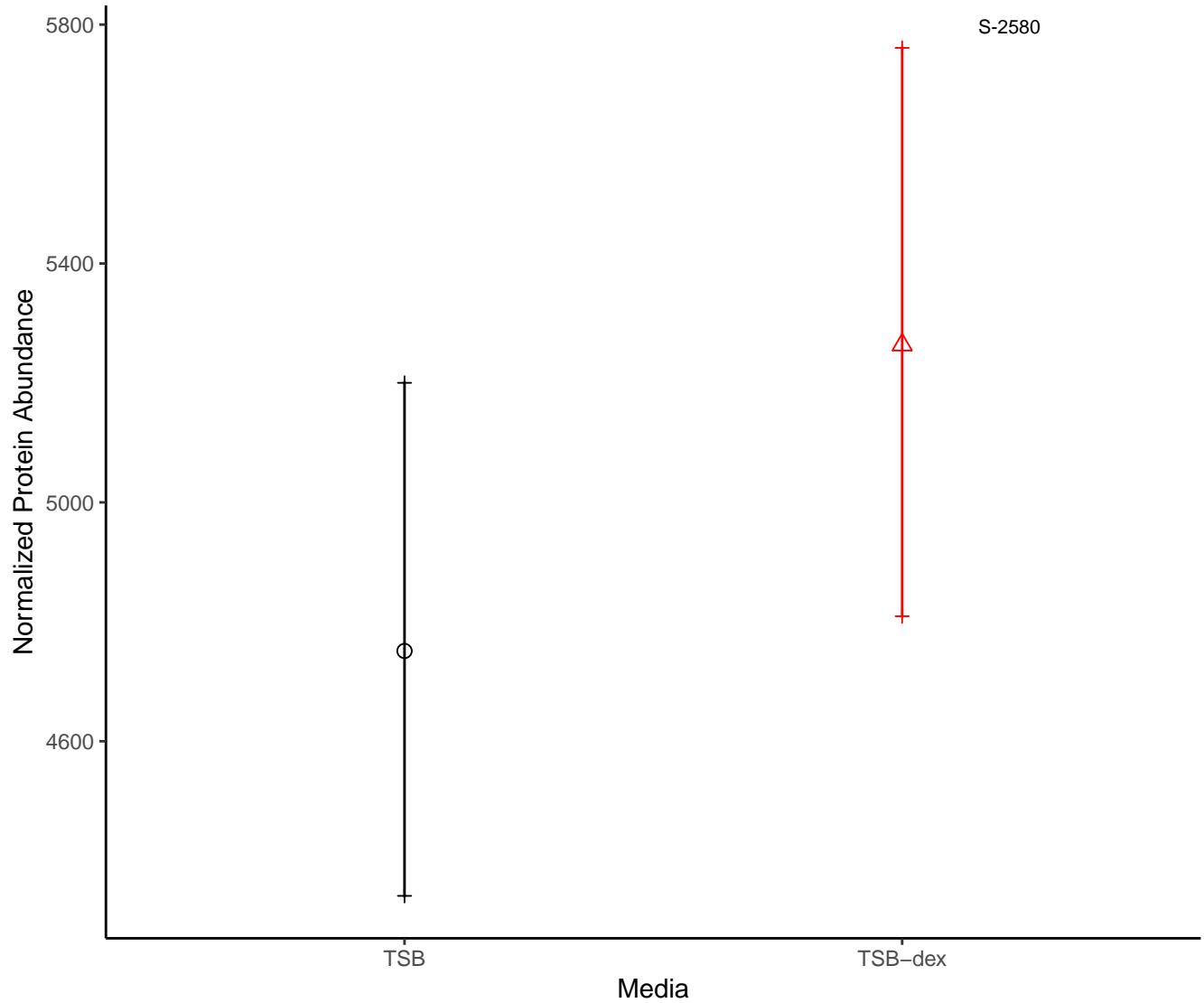
# DDL\_STAAM



⊕ TSB-dex

△ TSB

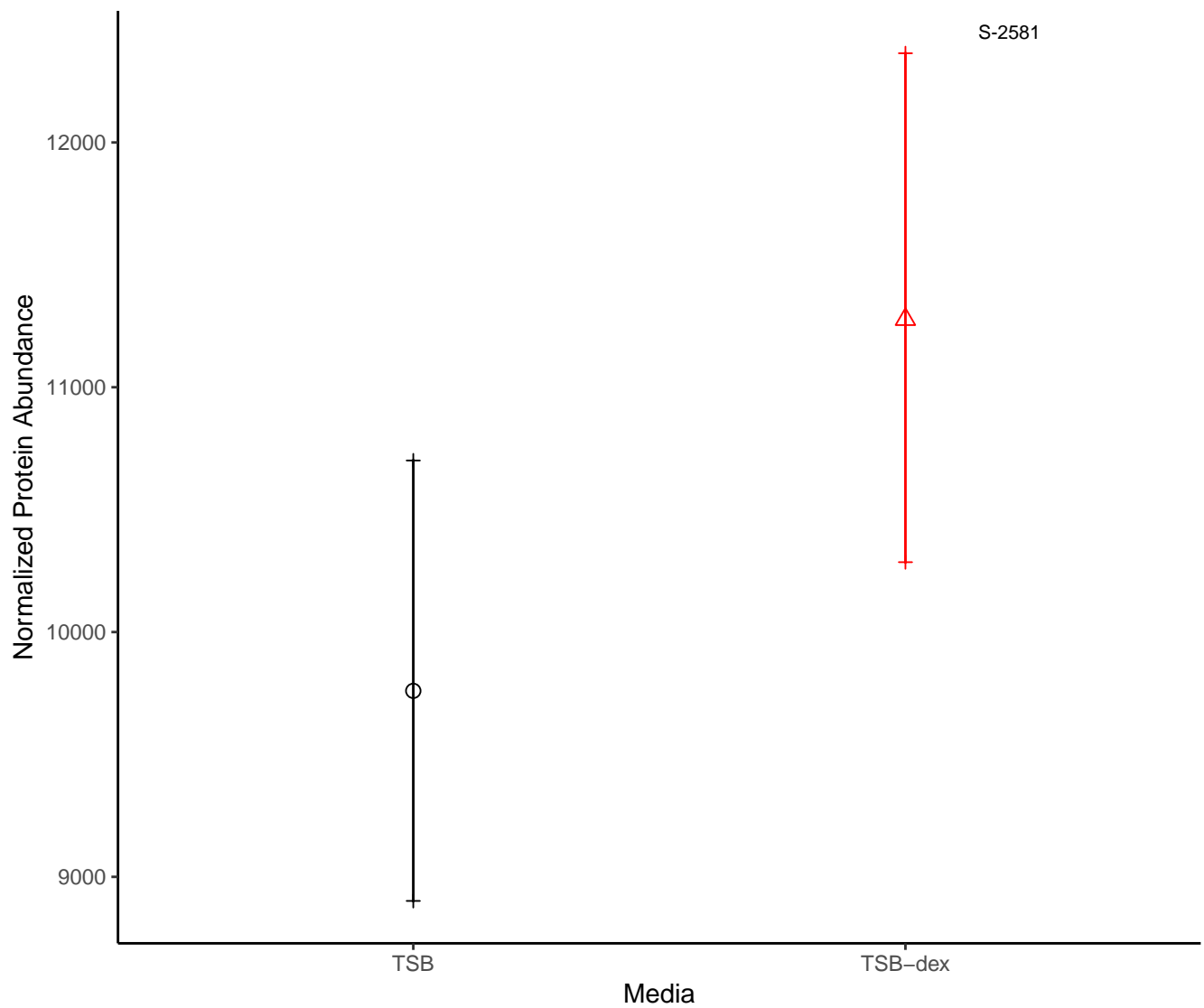
# DEF\_STAAM



⊕ TSB-dex

△ TSB

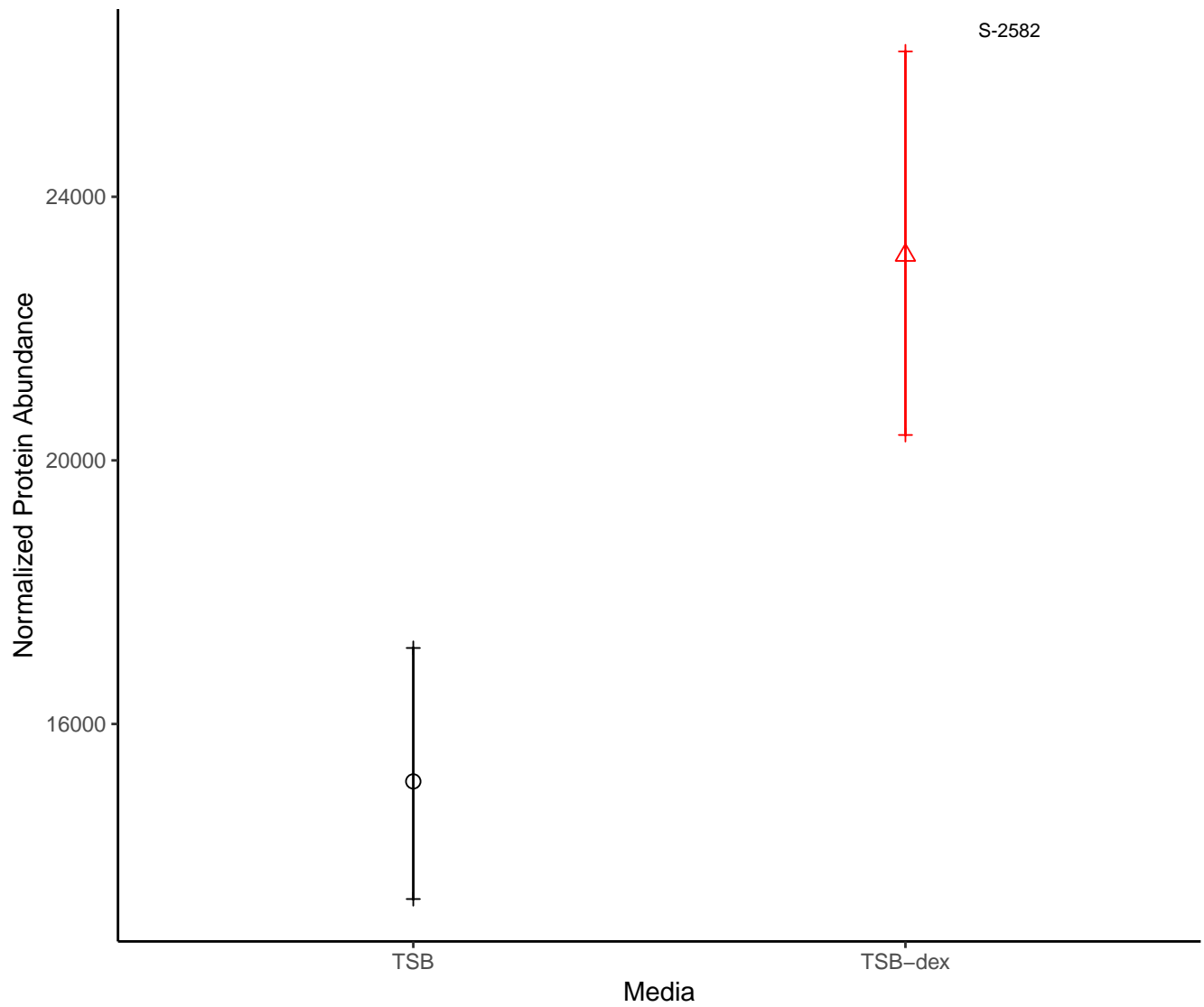
# DEOB\_STAAM



⊖ TSB-dex

△ TSB

# DEOC1\_STAAM

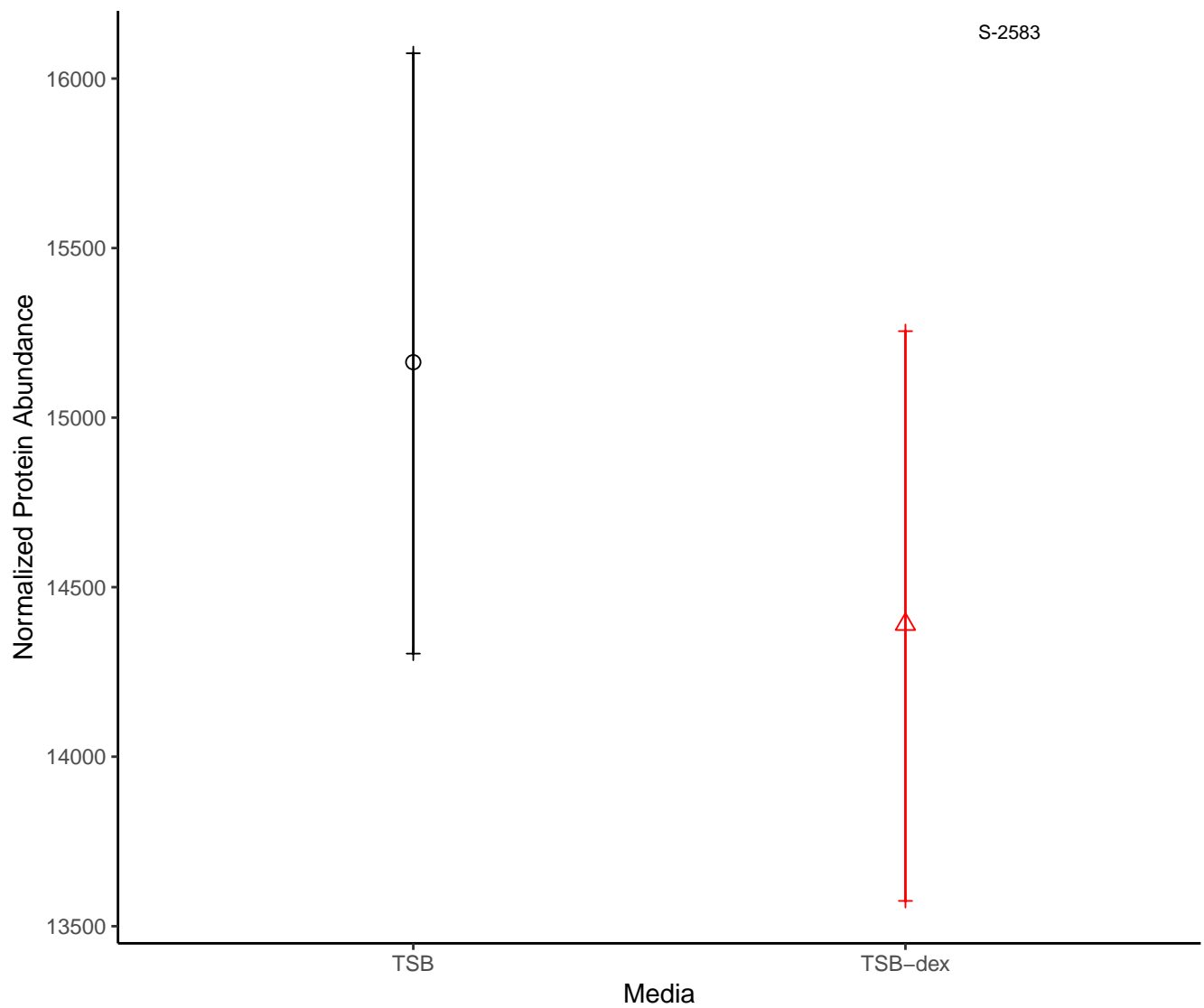


⊕ TSB-dex

△ TSB

# DEOC2\_STAAM

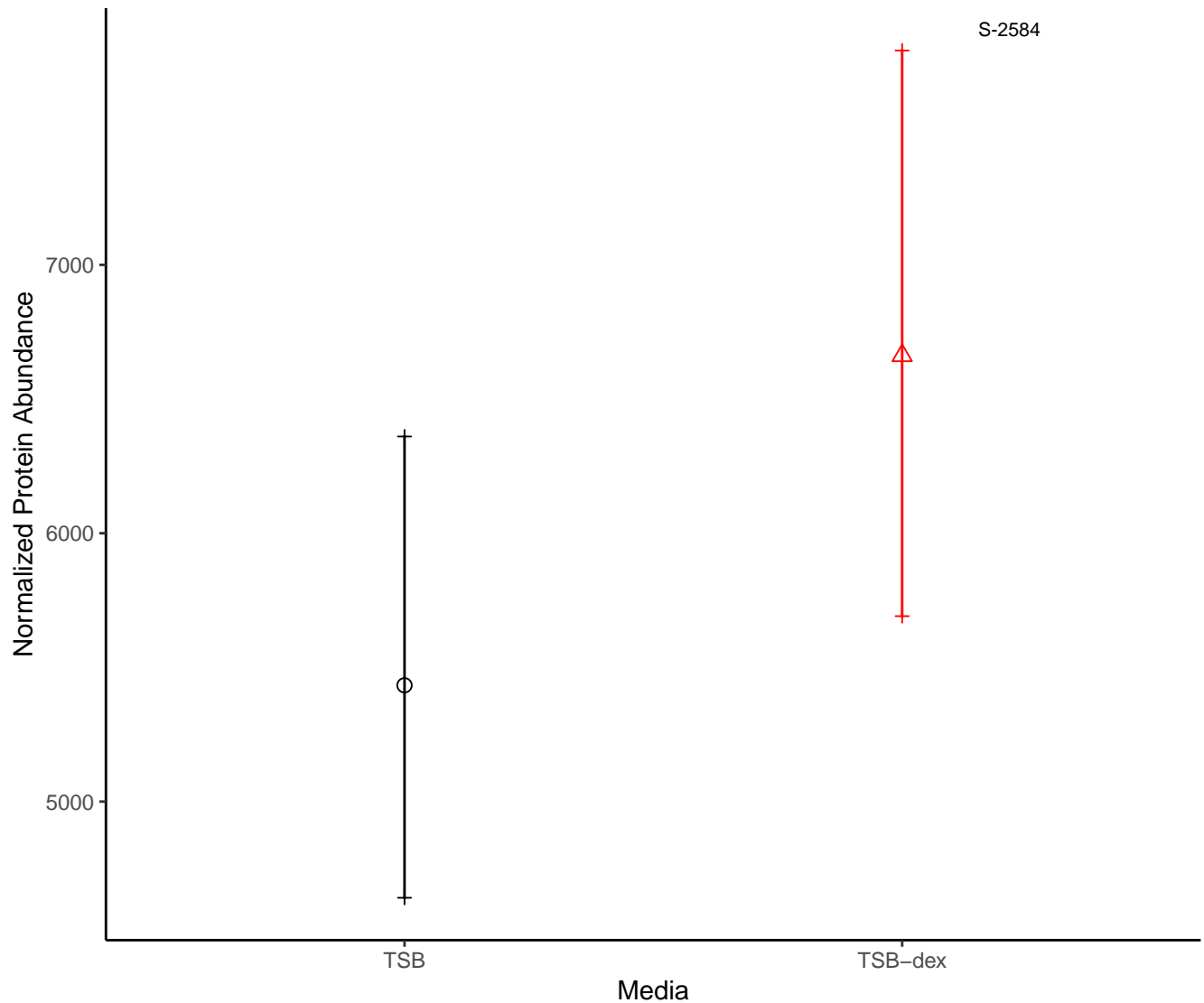
S-2583



⊖ TSB-dex

△ TSB

# DER\_STAAM

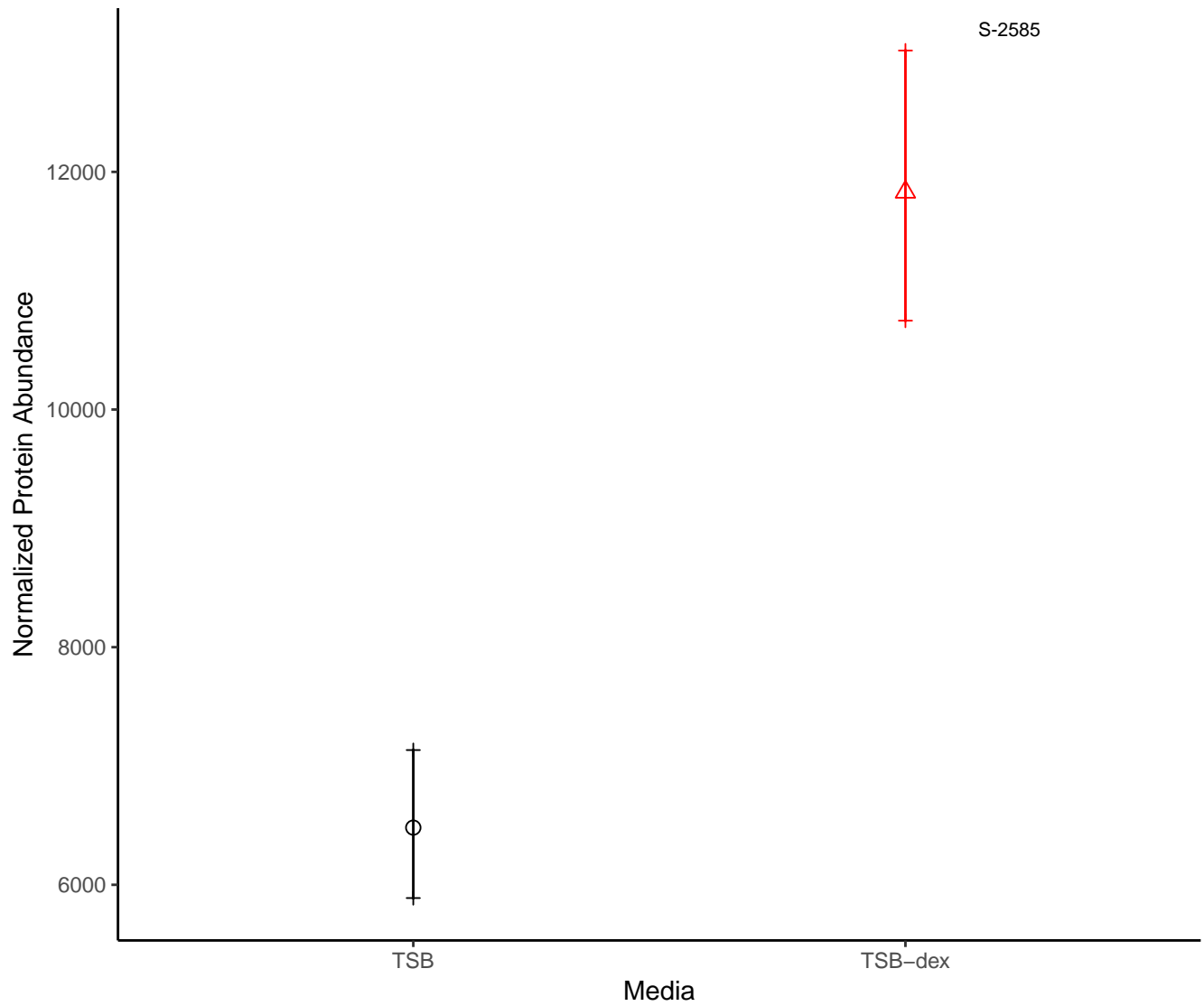


⊕ TSB-dex

△ TSB



# DHA1\_STAAM

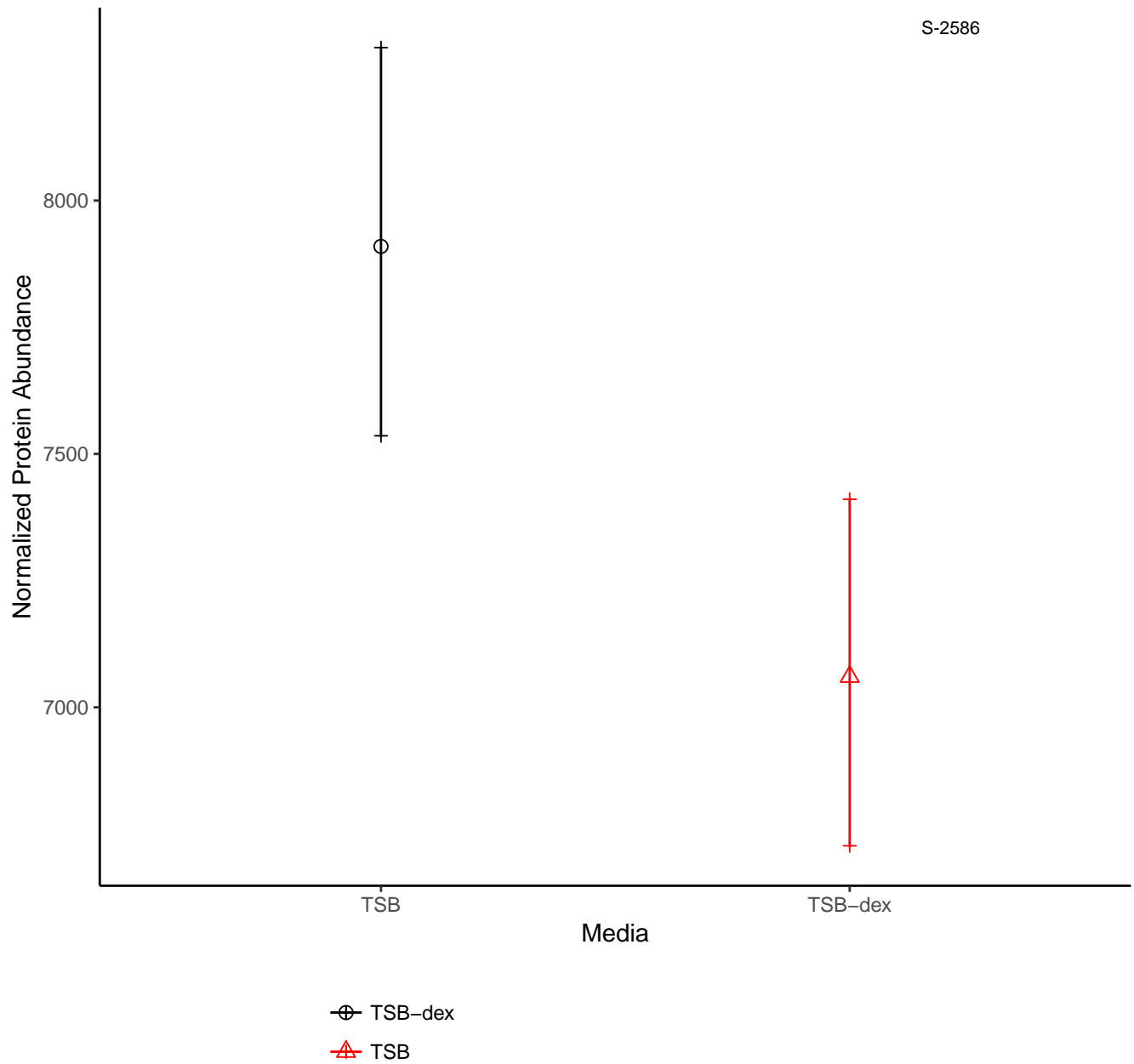


⊖ TSB-dex

⊖ TSB

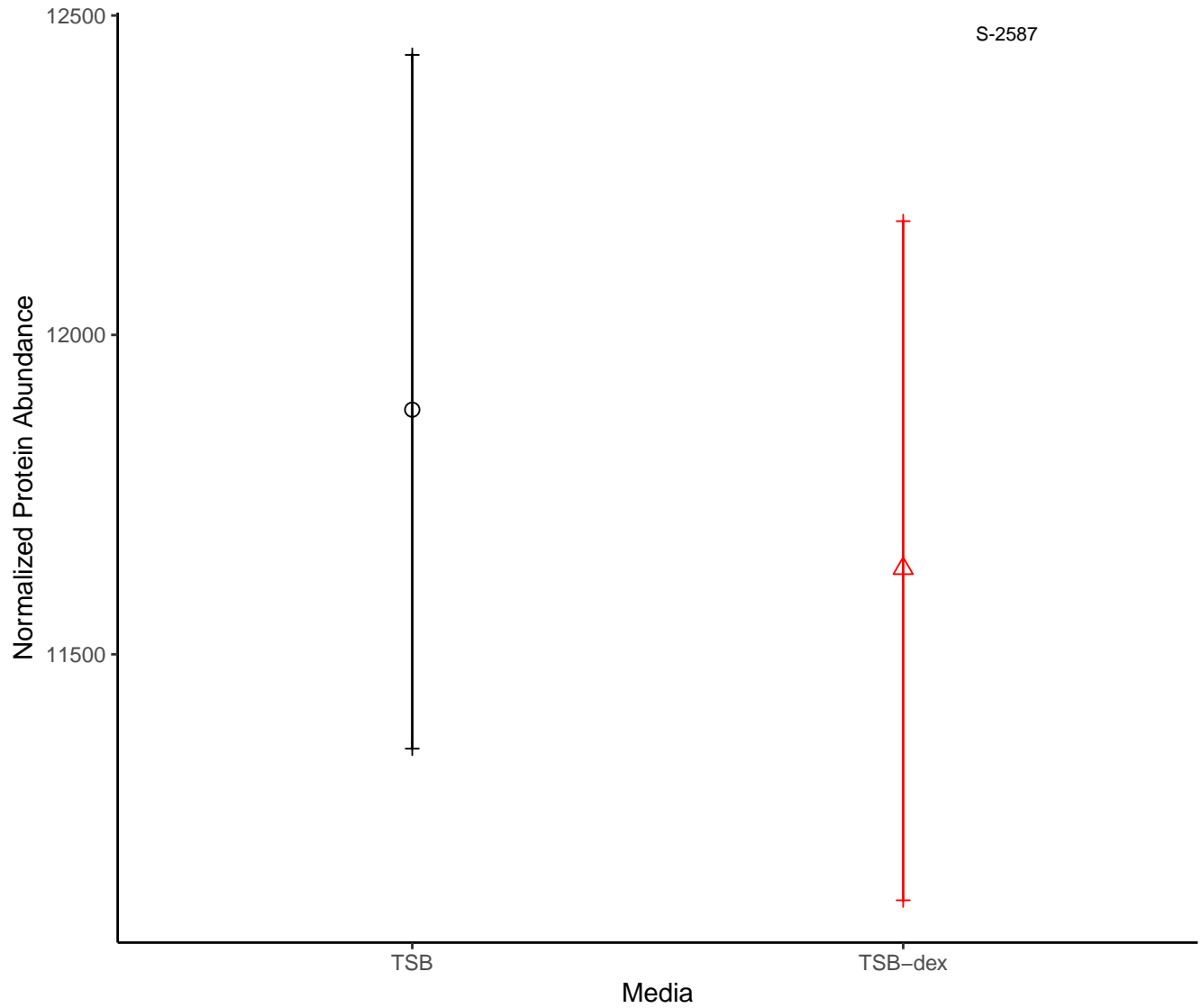
# DHA2\_STAAM

S-2586



# DHE2\_STAAM

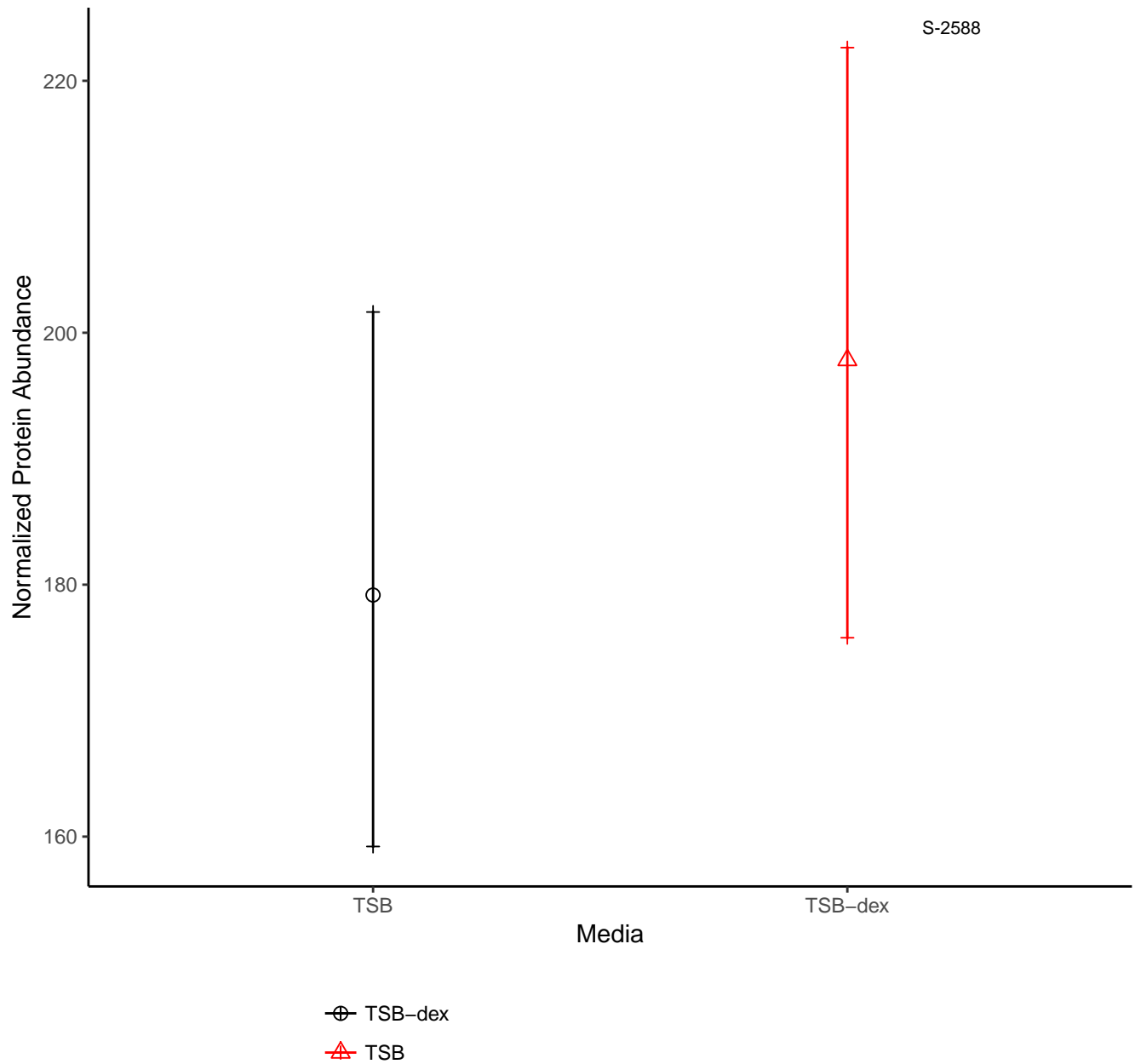
S-2587



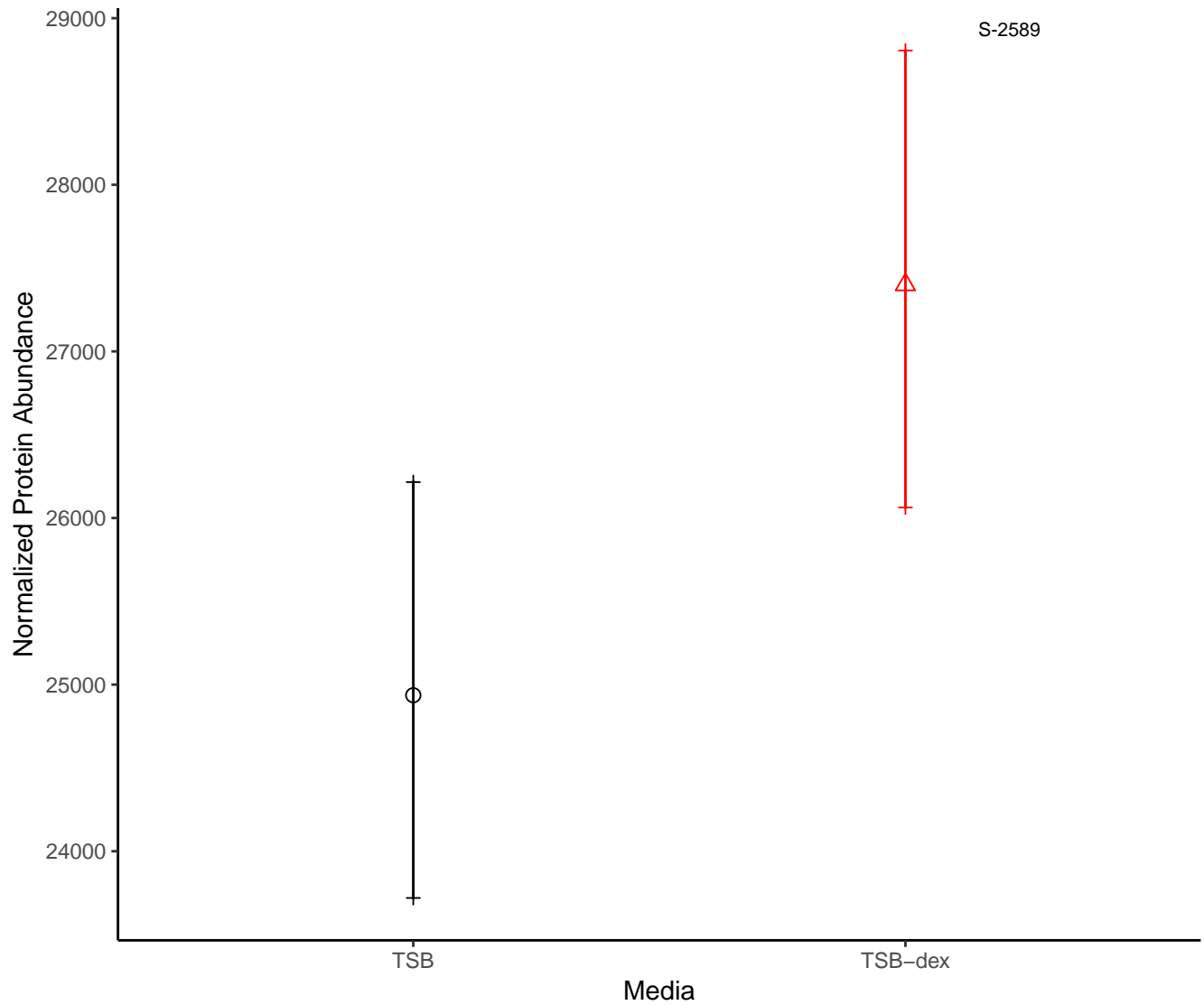
⊕ TSB-dex

△ TSB

# DHPS\_STAAM



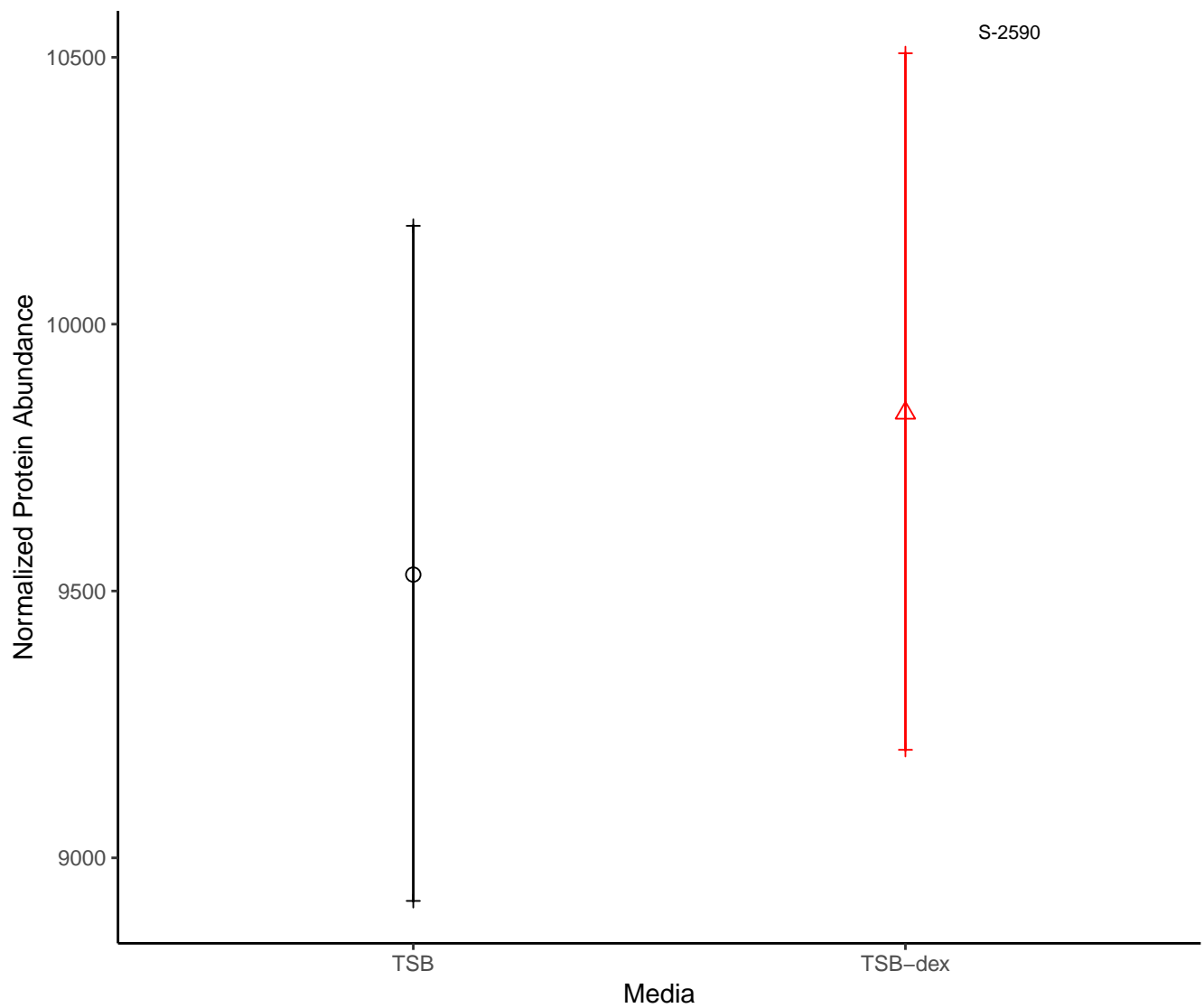
# DLDH\_STAAM



⊕ TSB-dex

△ TSB

# DLTA\_STAAM

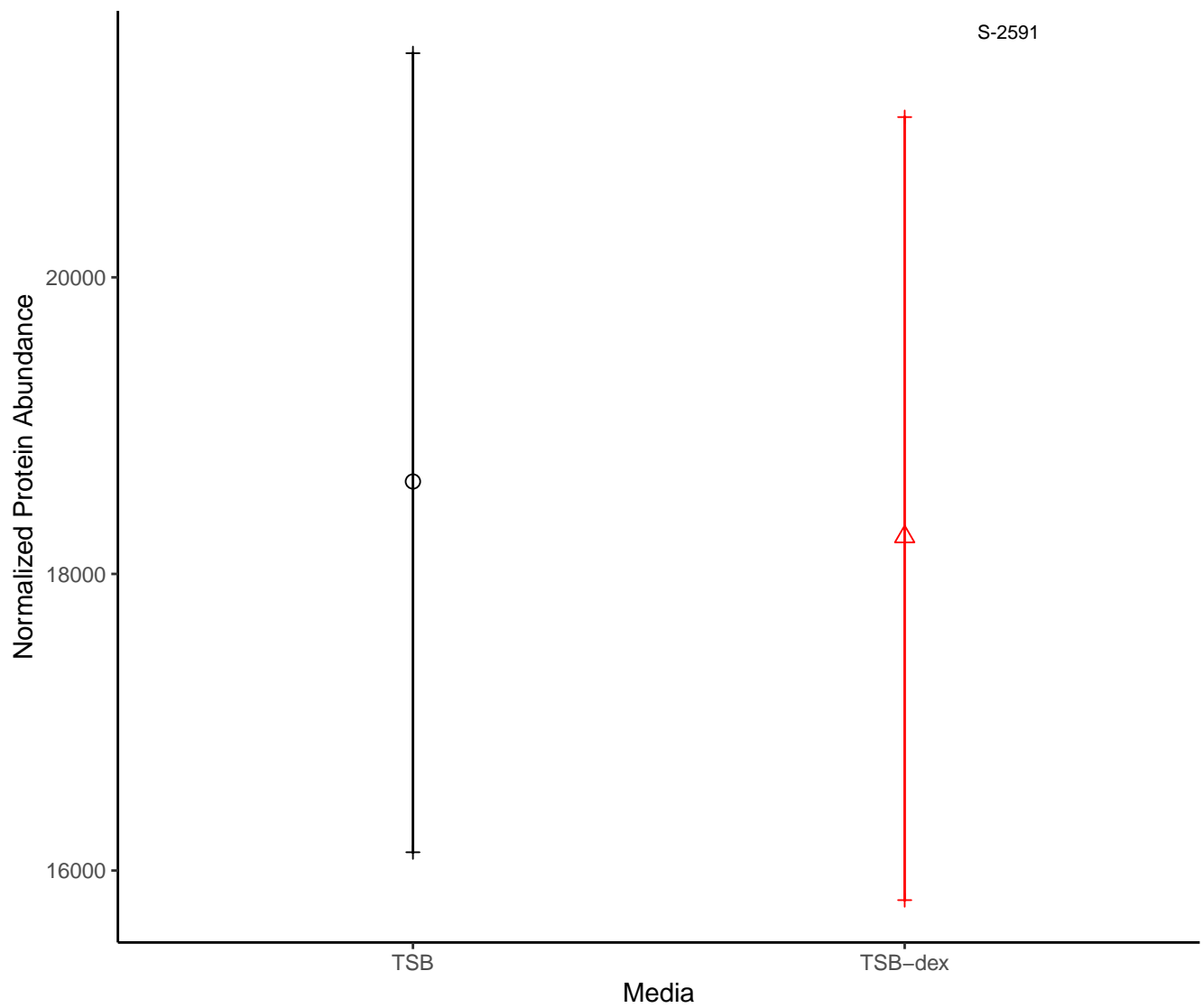


● TSB-dex

▲ TSB

# DLTC\_STAAM

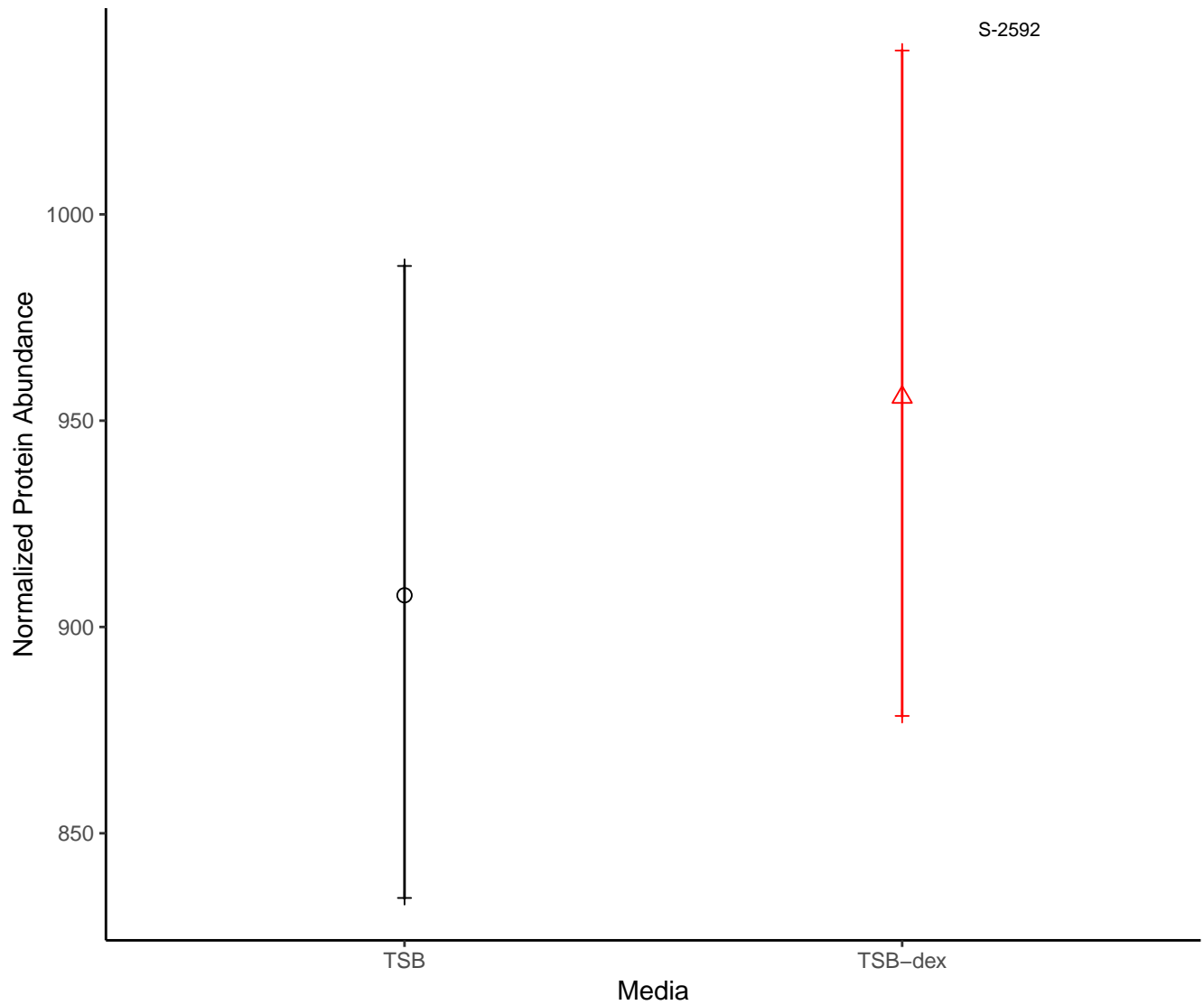
S-2591



⊕ TSB-dex

△ TSB

# DNAA\_STAAM



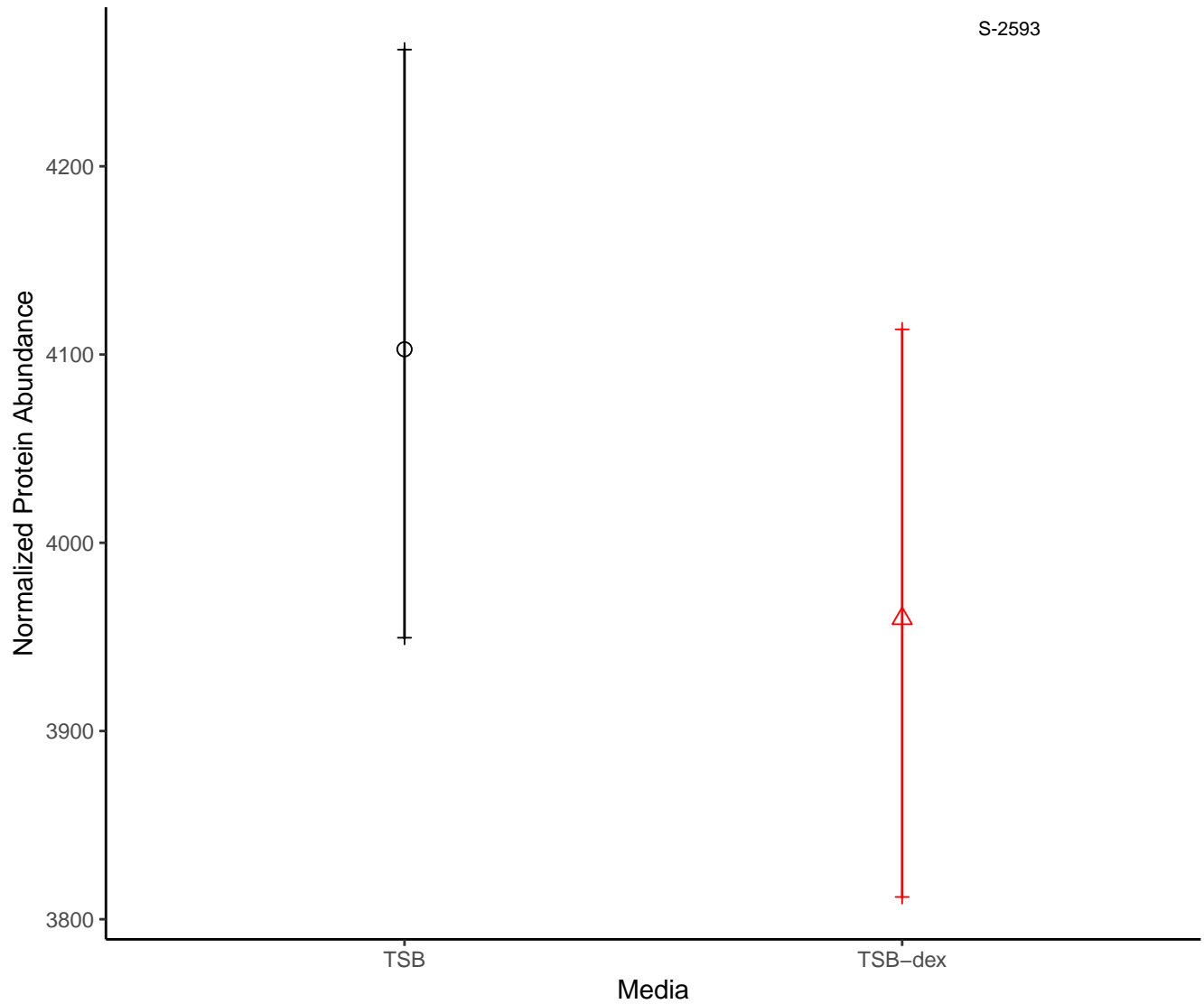
⊕ TSB-dex

△ TSB



# DNAG\_STAAM

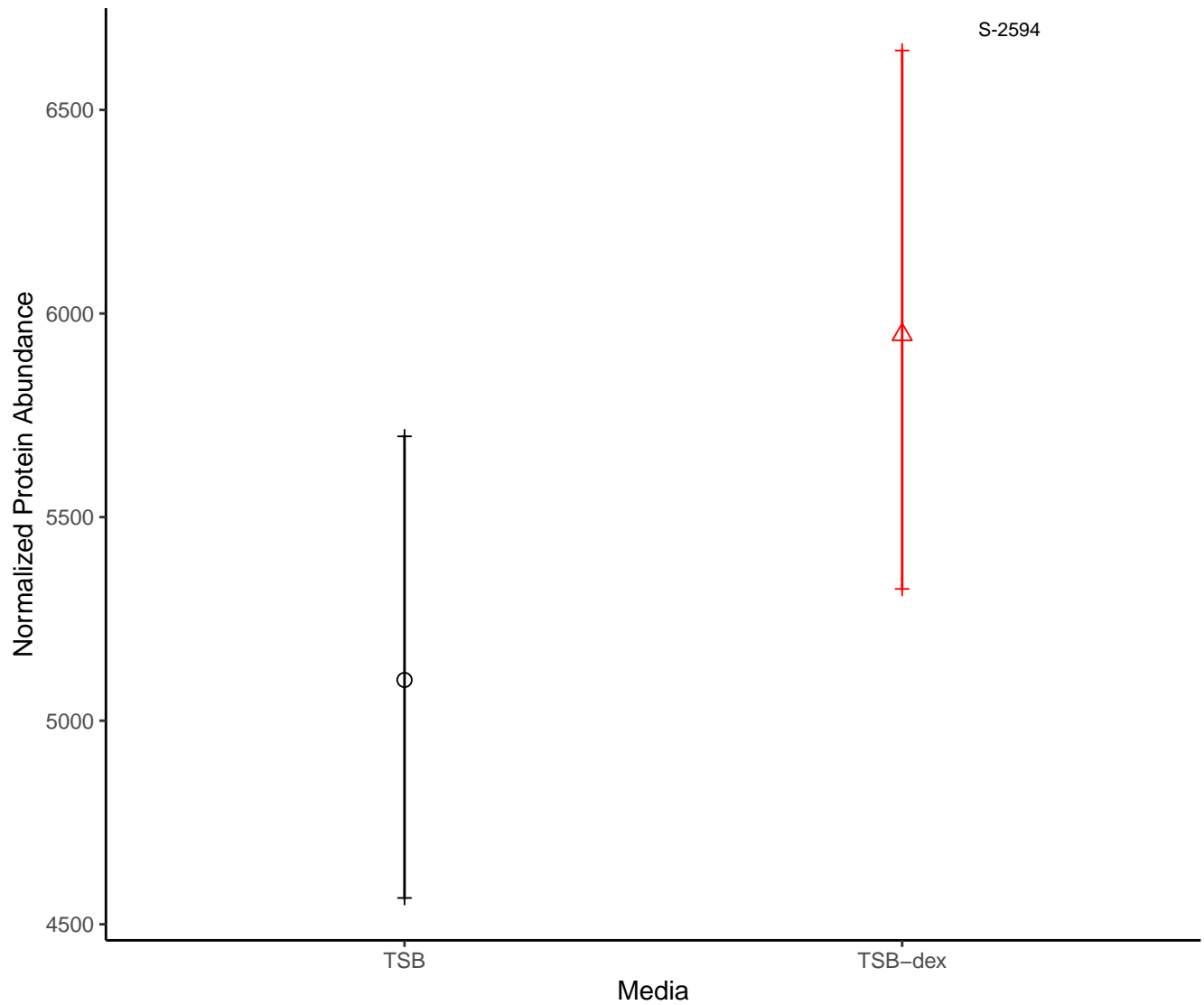
S-2593



⊕ TSB-dex

△ TSB

# DNAJ\_STAAM

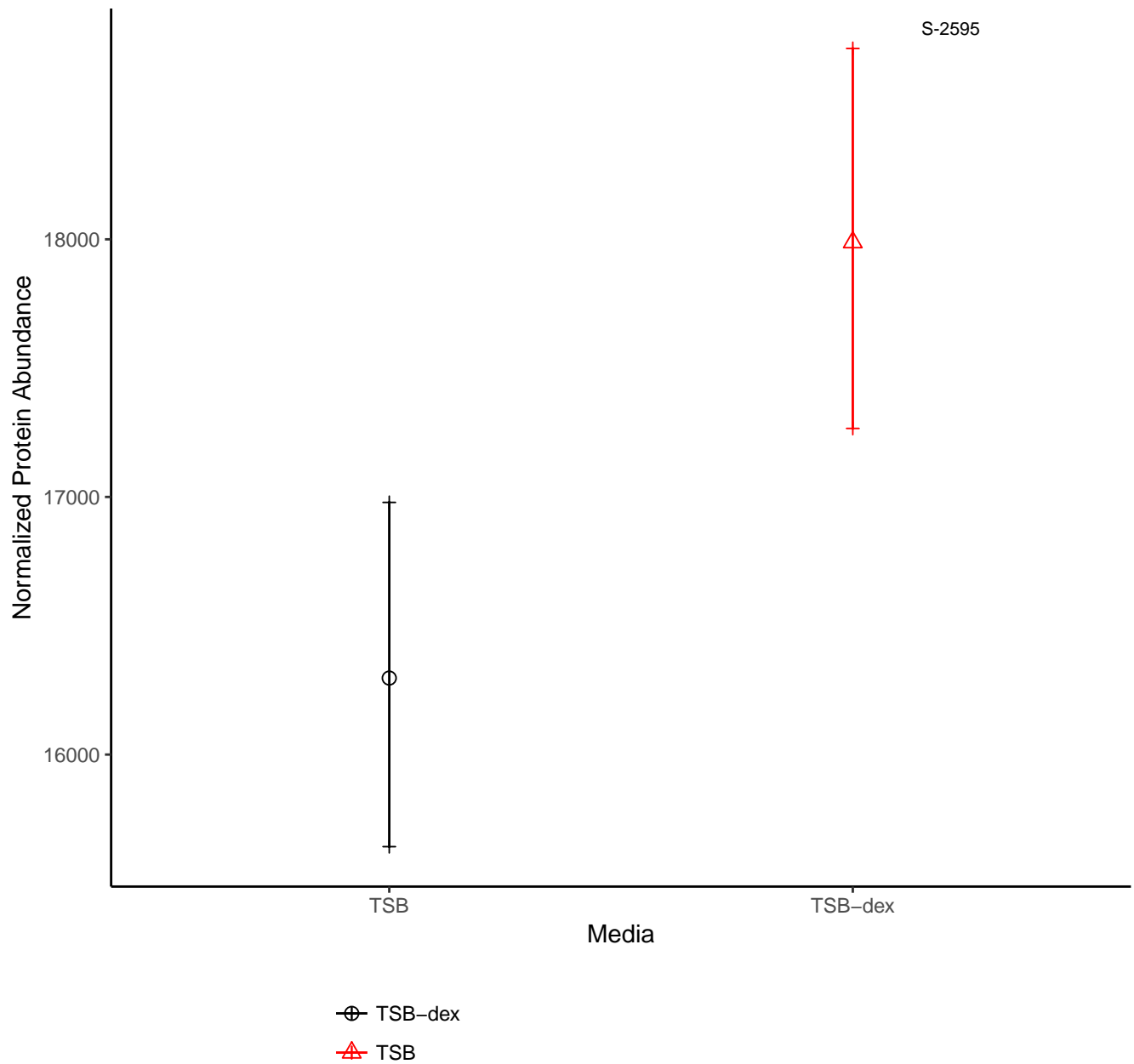


S-2594

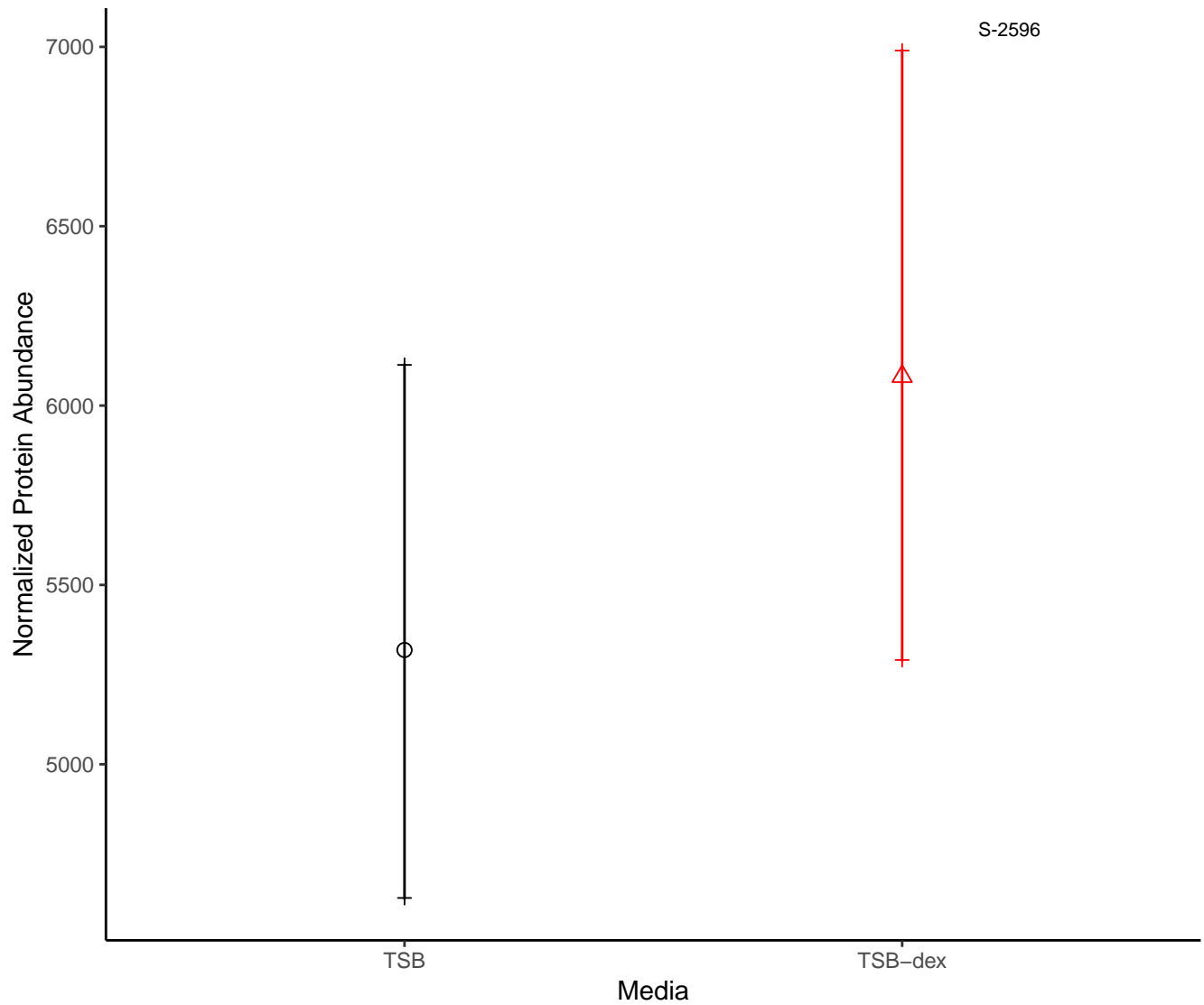
⊕ TSB-dex

△ TSB

# DNAK\_STAAM



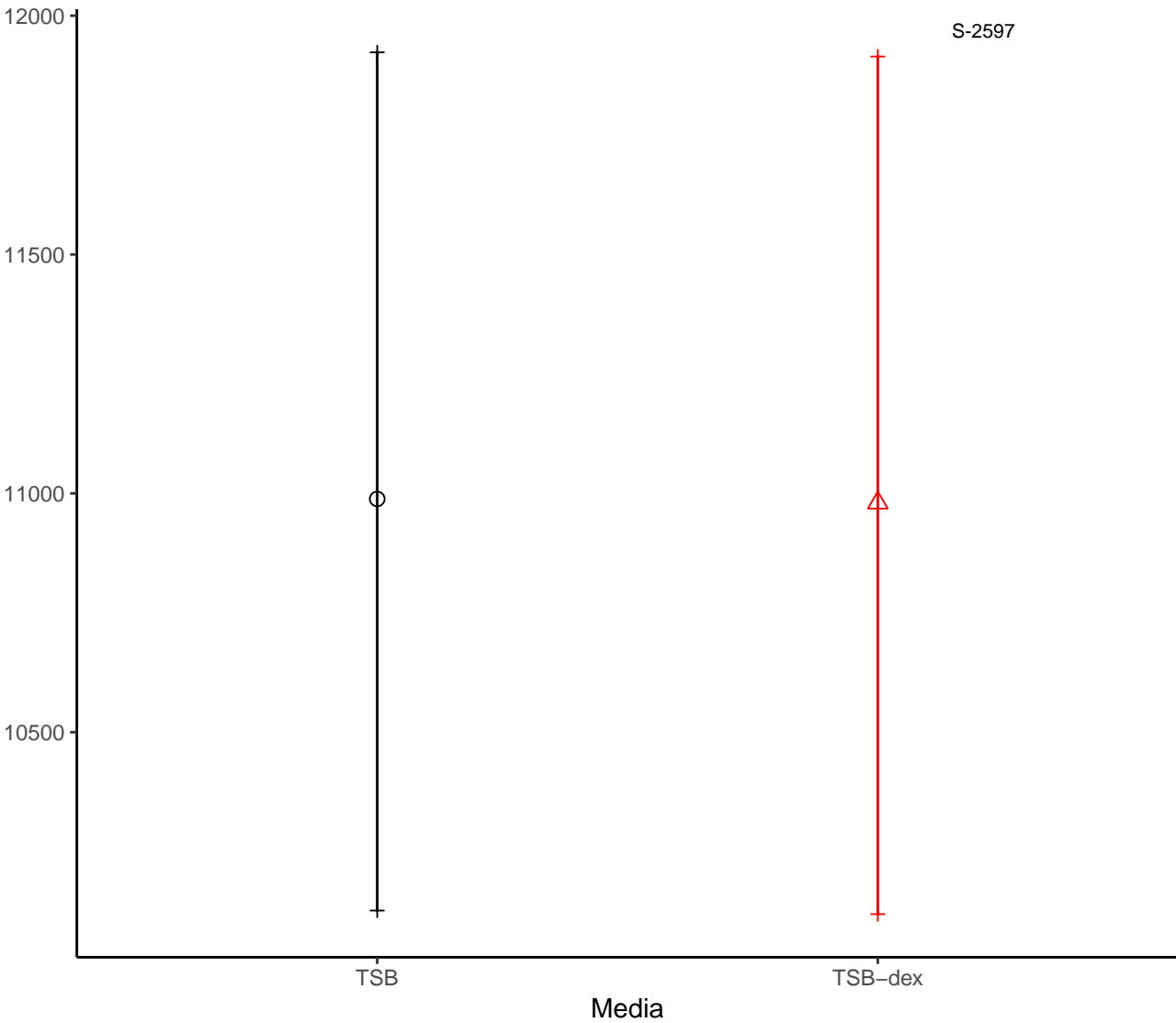
# DNLJ\_STAAM



⊕ TSB-dex

△ TSB

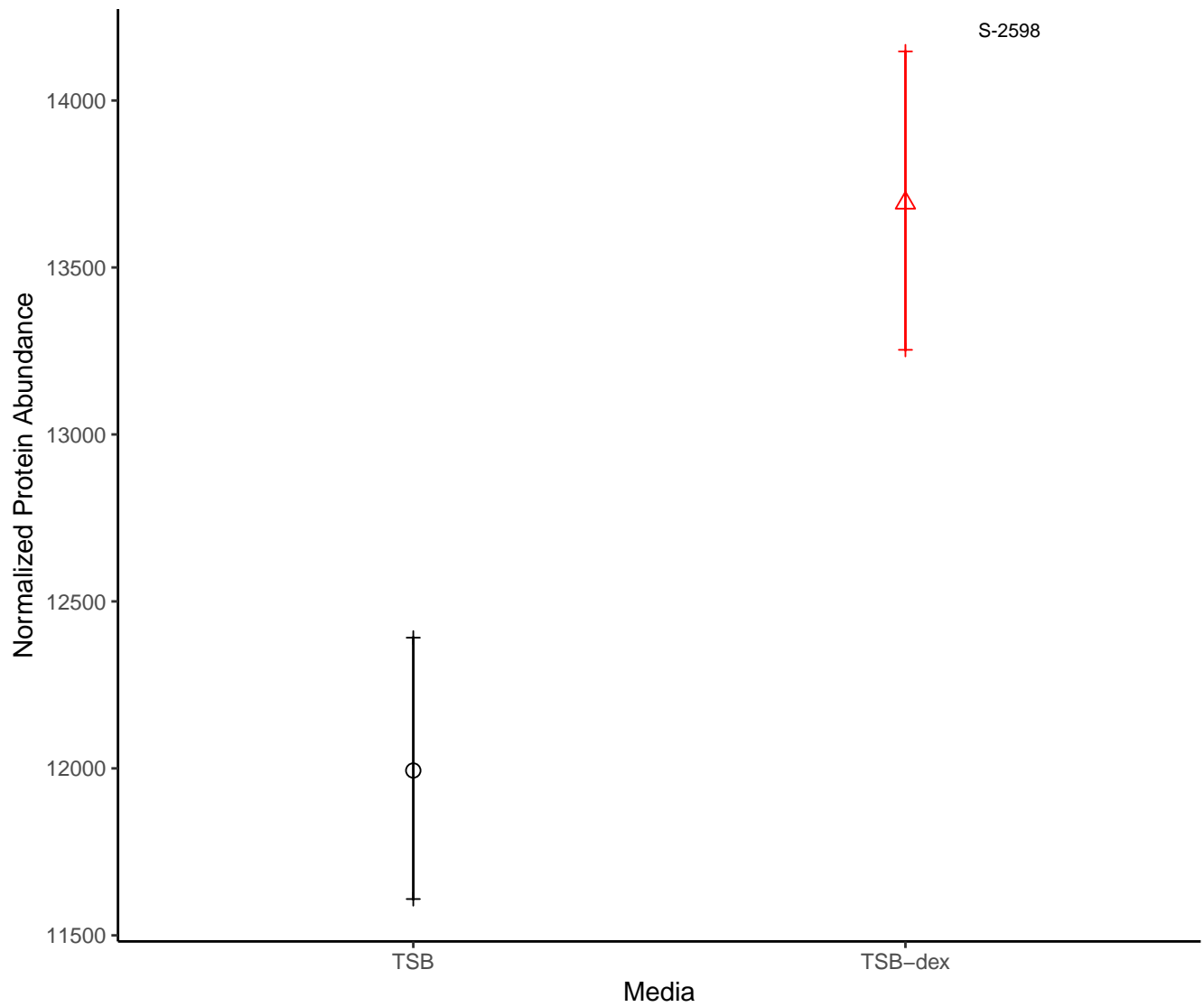
# DPO3B\_STAAM



⊕ TSB-dex

△ TSB

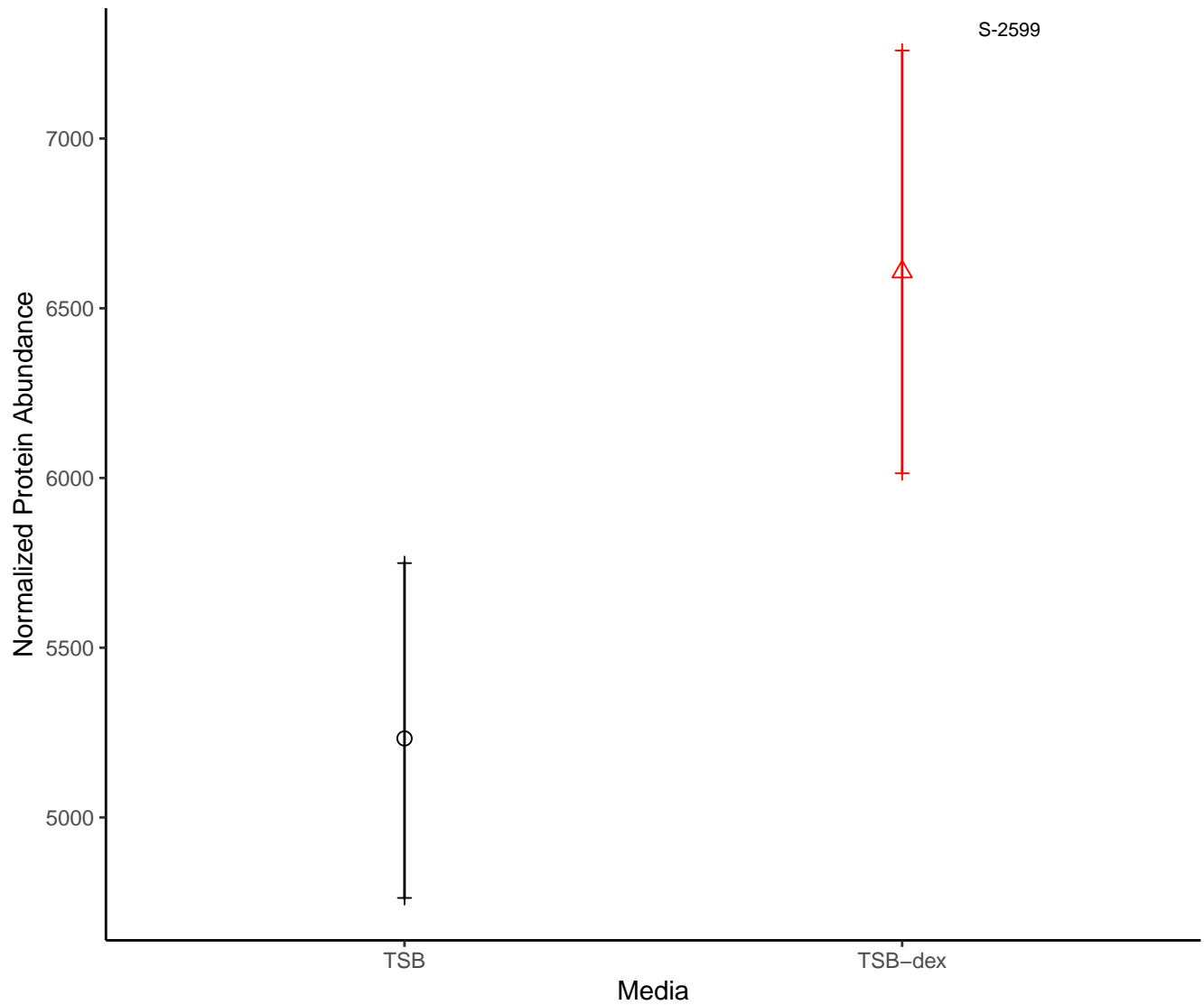
# DPO4\_STAAM



⊕ TSB-dex

△ TSB

# DTD\_STAAM

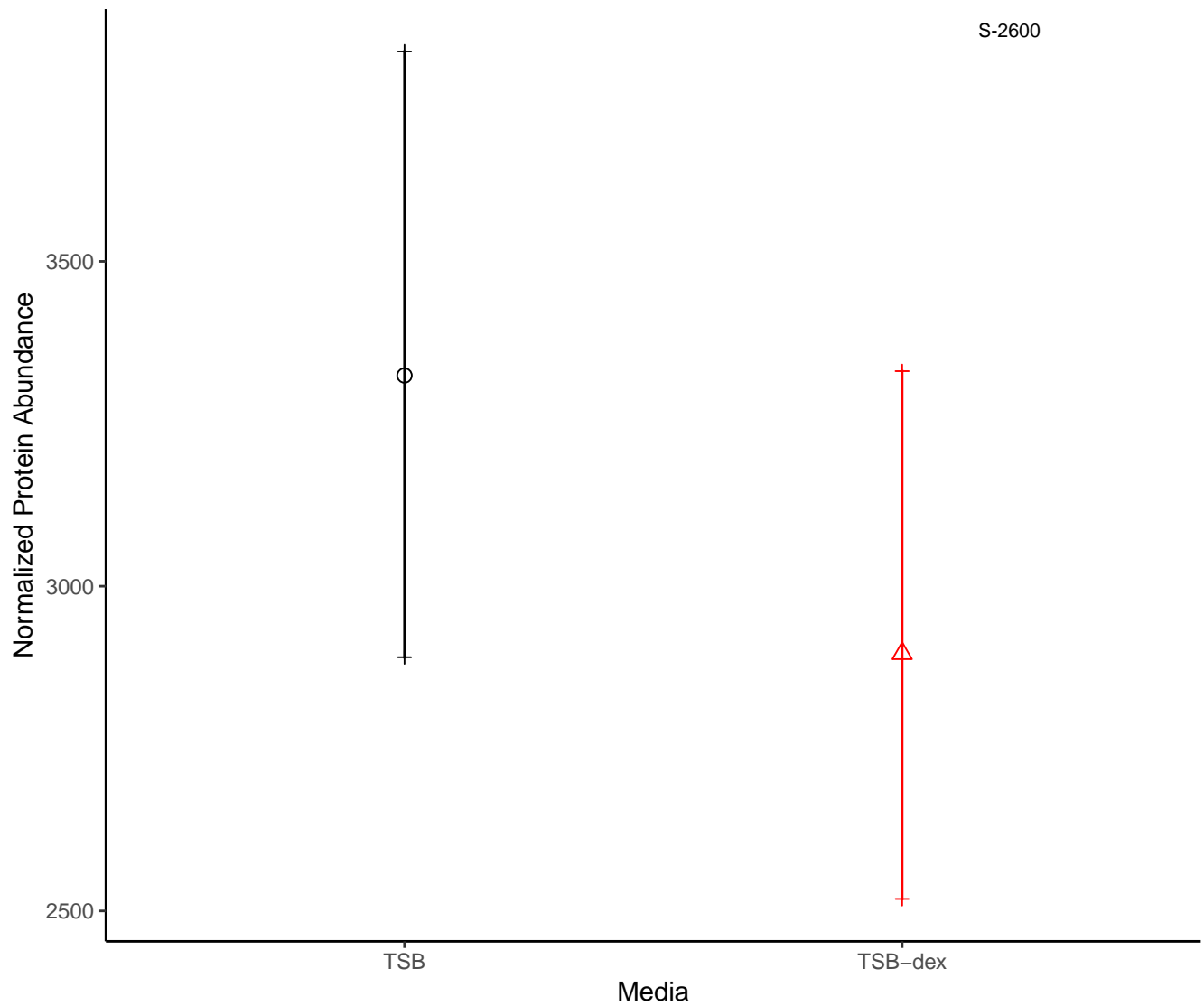


⊕ TSB-dex

△ TSB

# DYR\_STAAM

S-2600

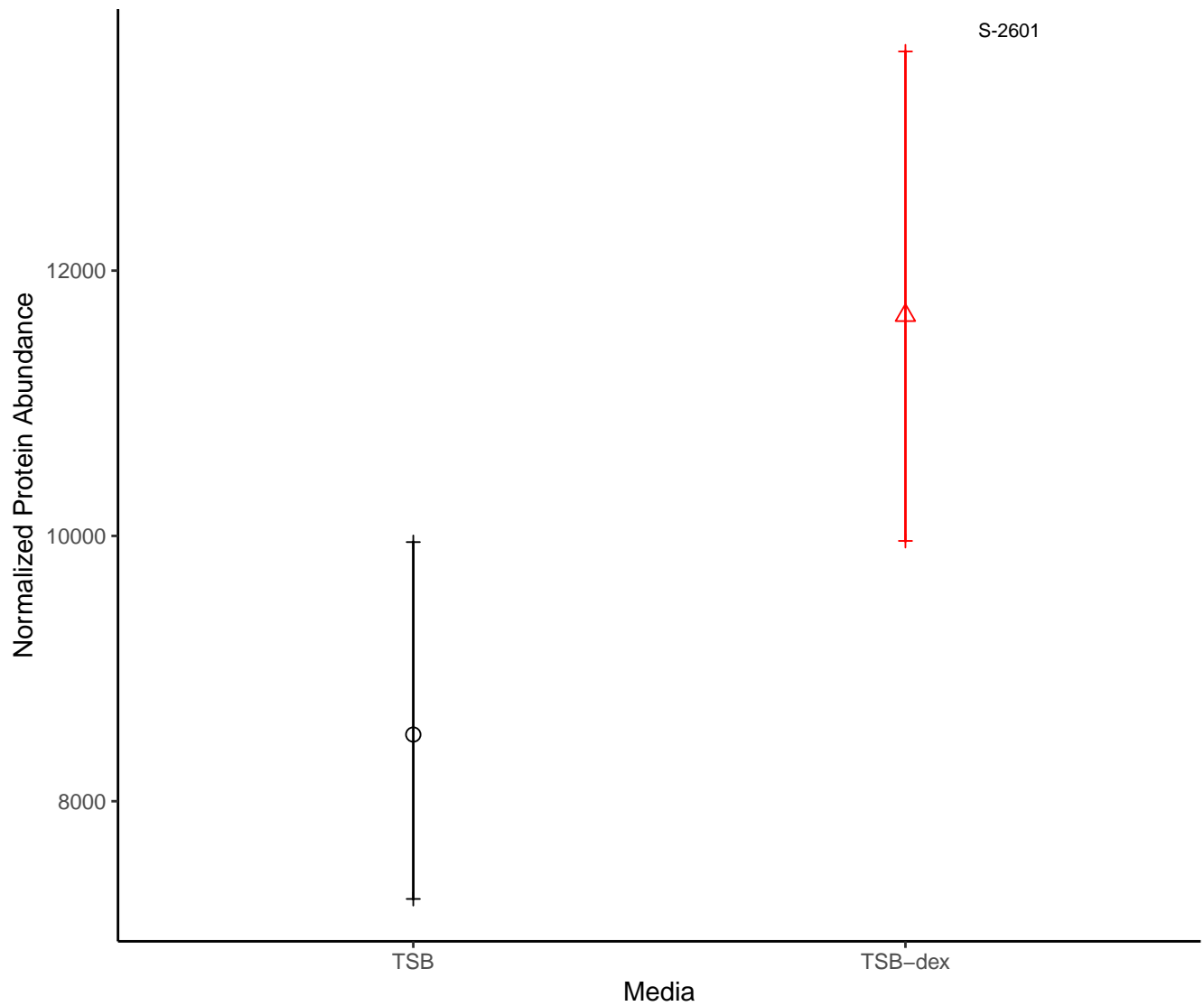


⊕ TSB-dex

△ TSB



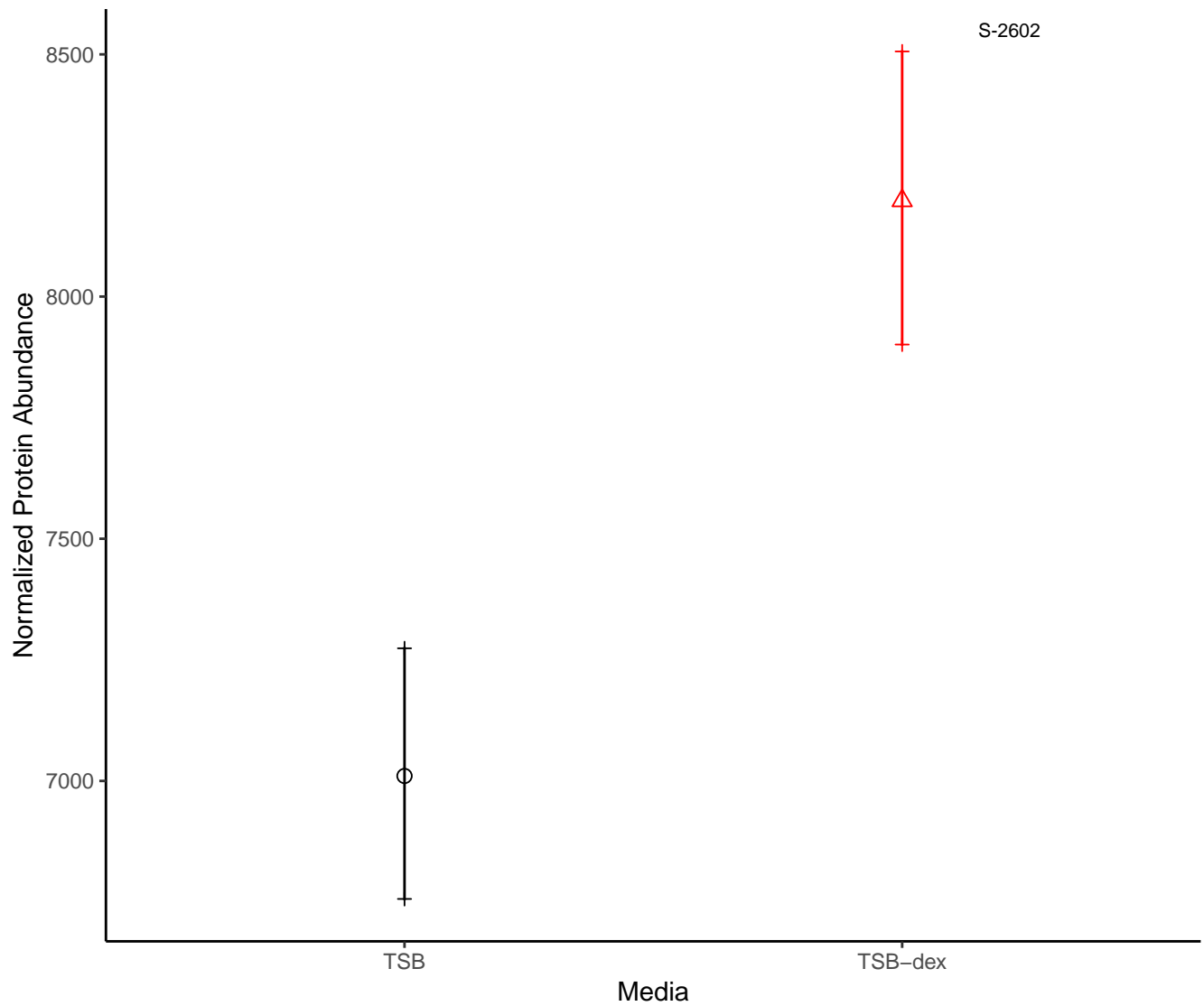
# EBPS\_STAAM



⊕ TSB-dex

△ TSB

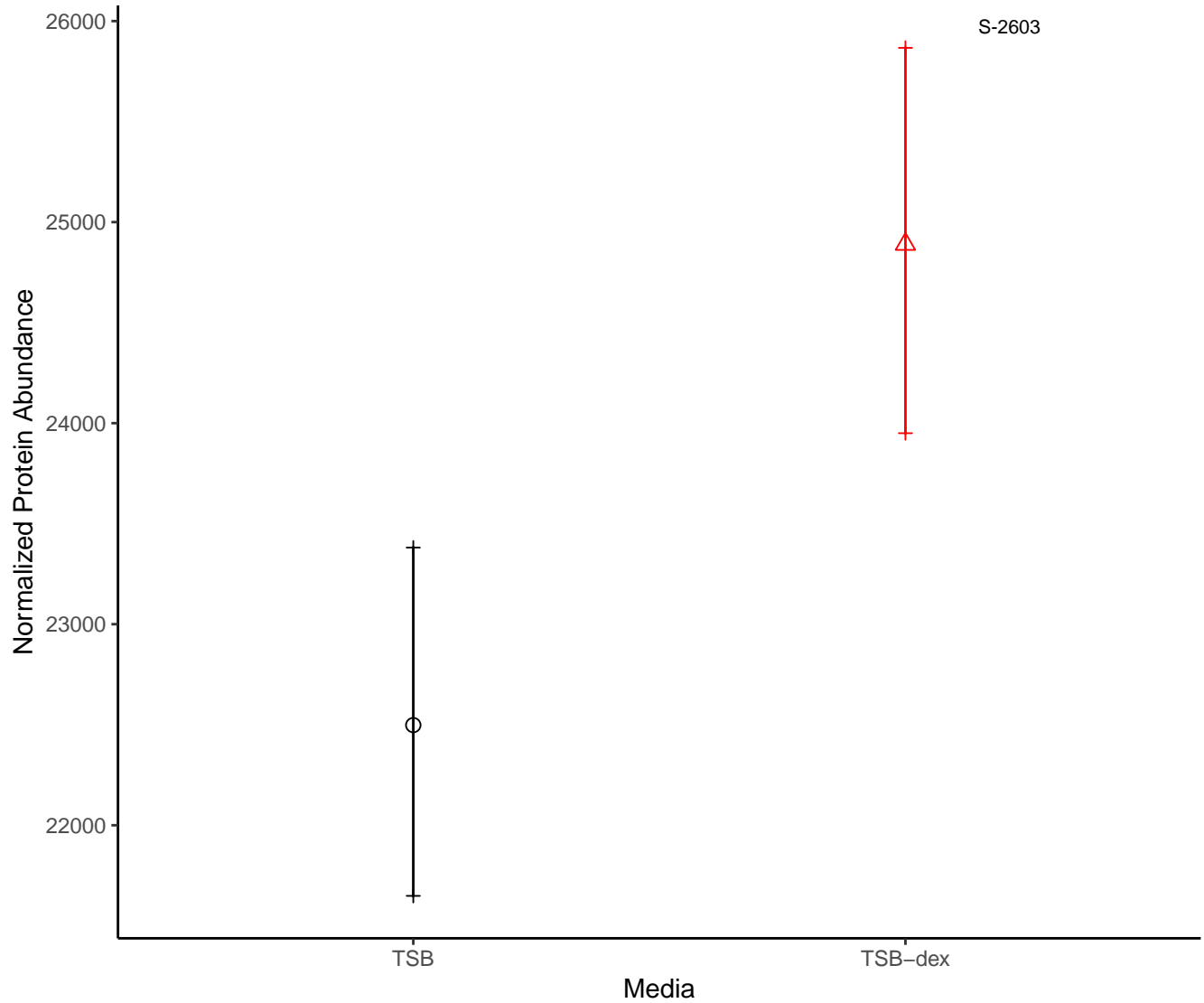
# ECFA1\_STAAM



⊕ TSB-dex

△ TSB

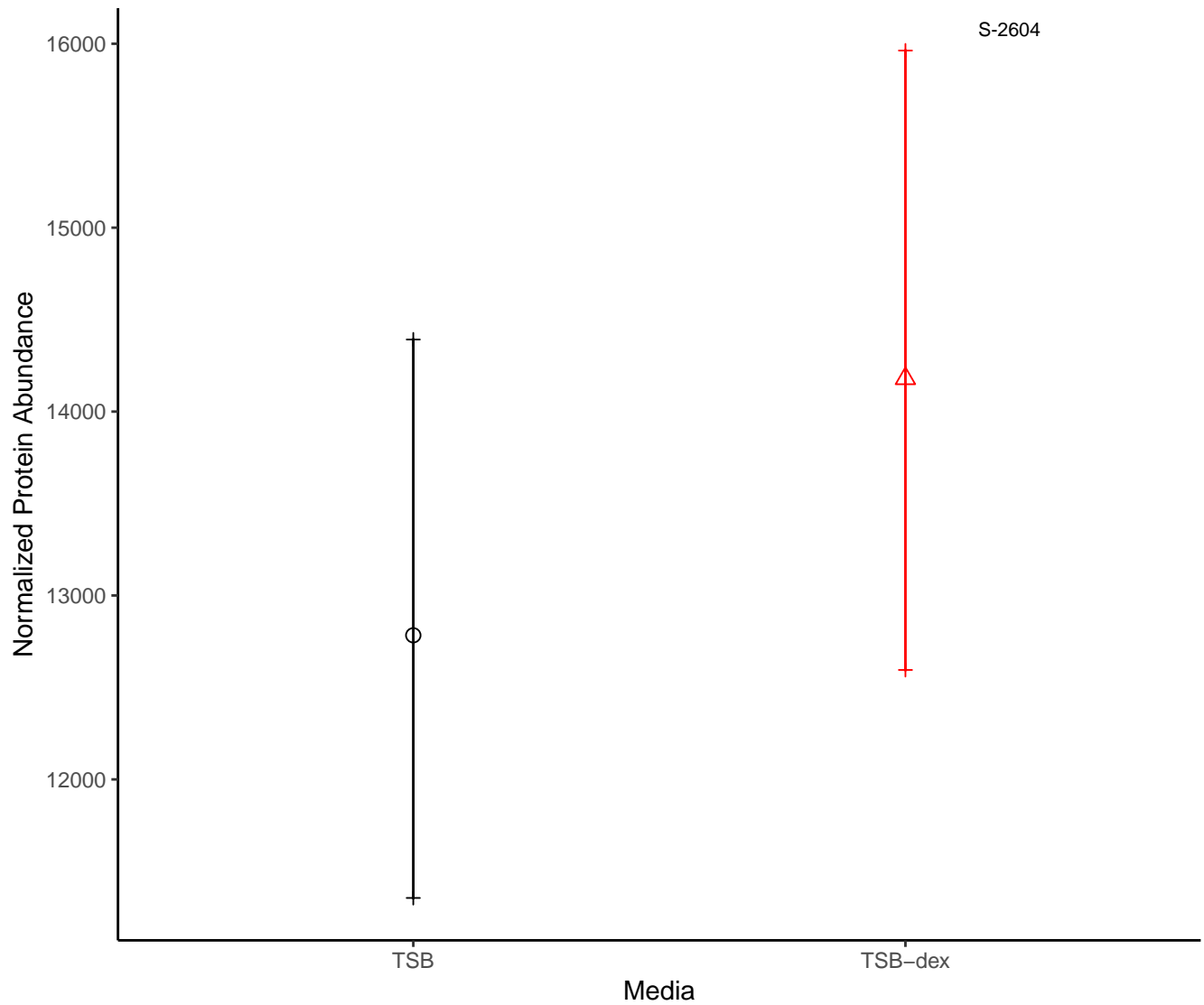
# EFG\_STAAM



⊕ TSB-dex

△ TSB

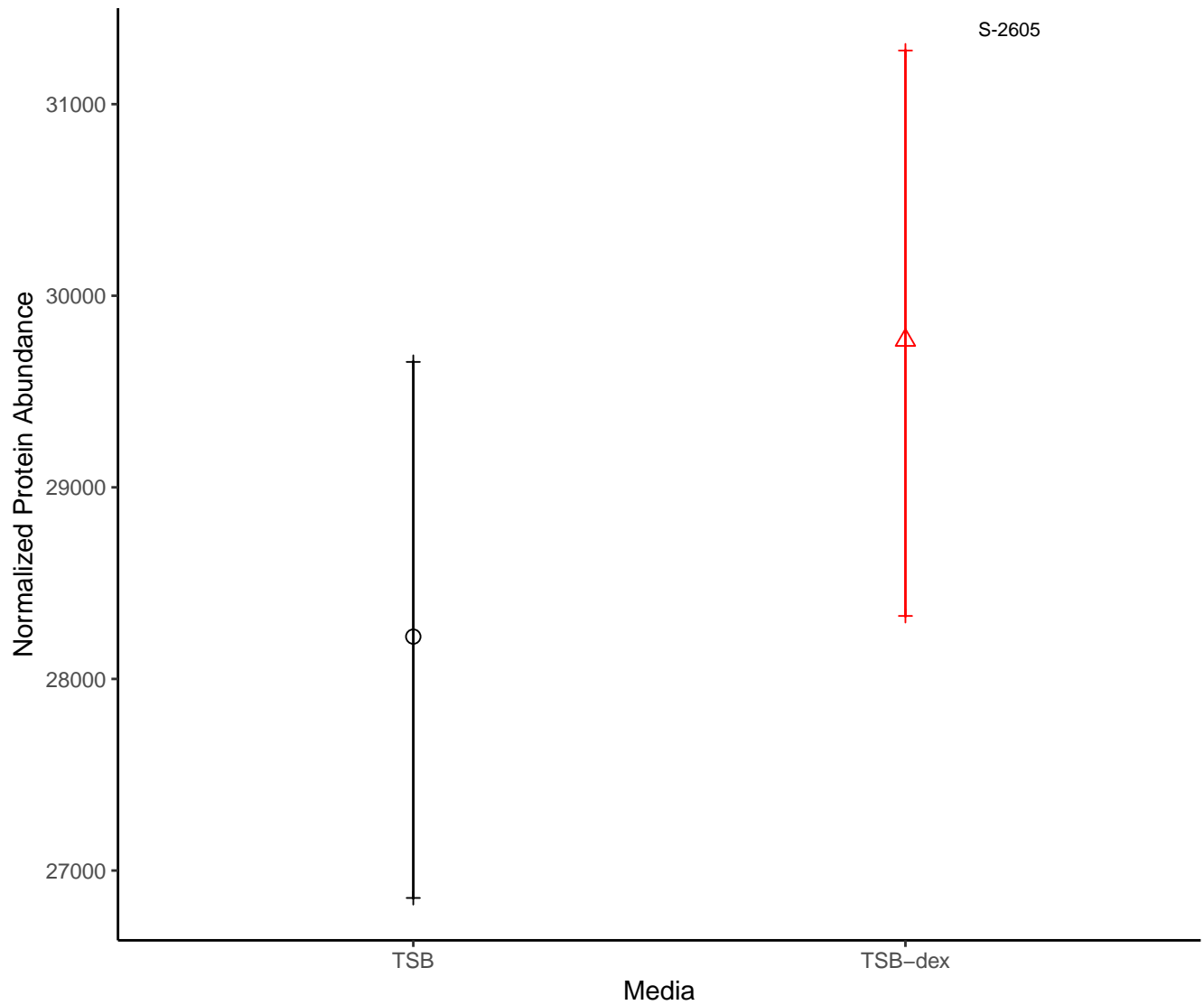
# EFP\_STAAM



⊕ TSB-dex

△ TSB

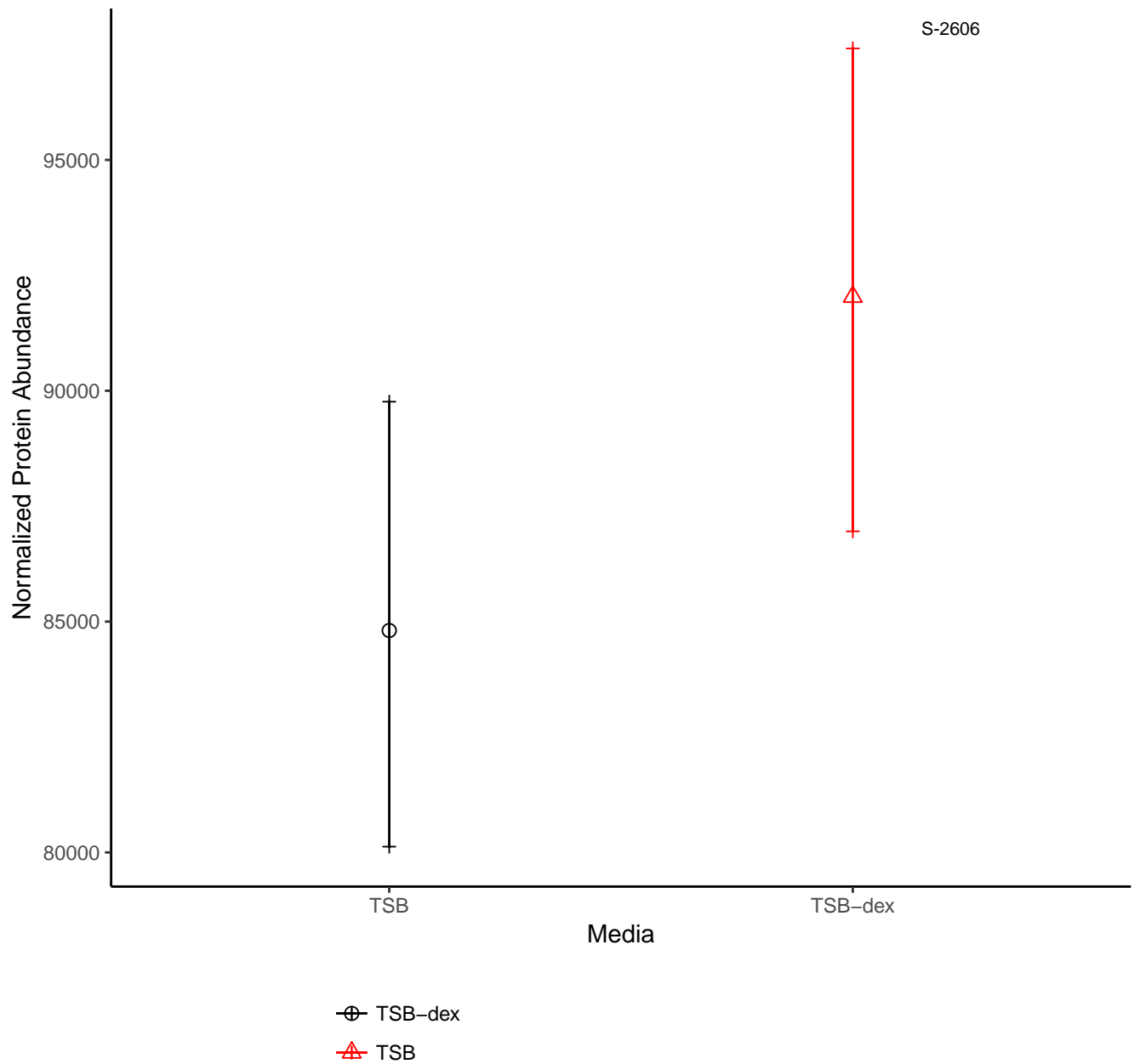
# EFTS\_STAAM



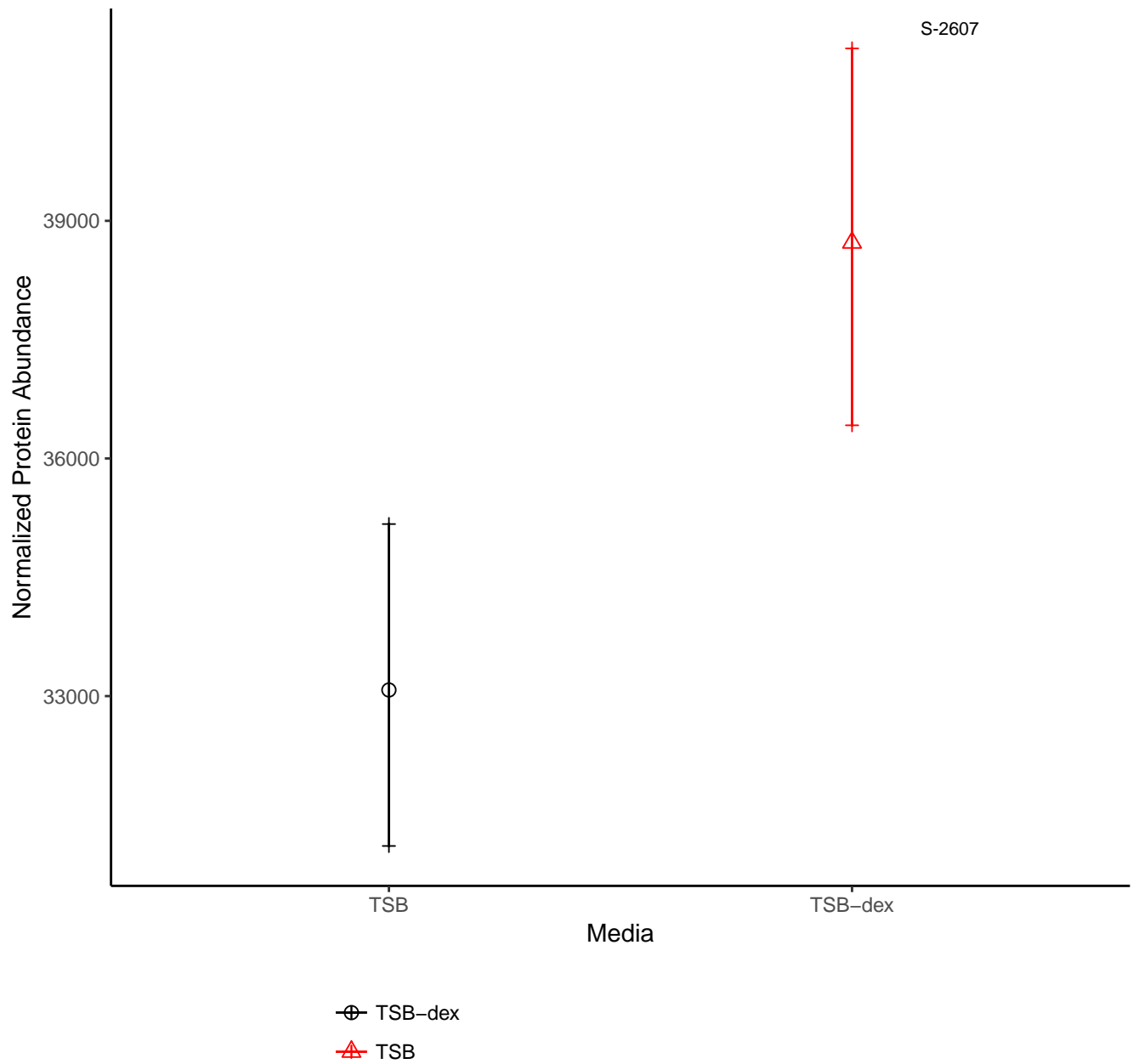
⊖ TSB-dex

△ TSB

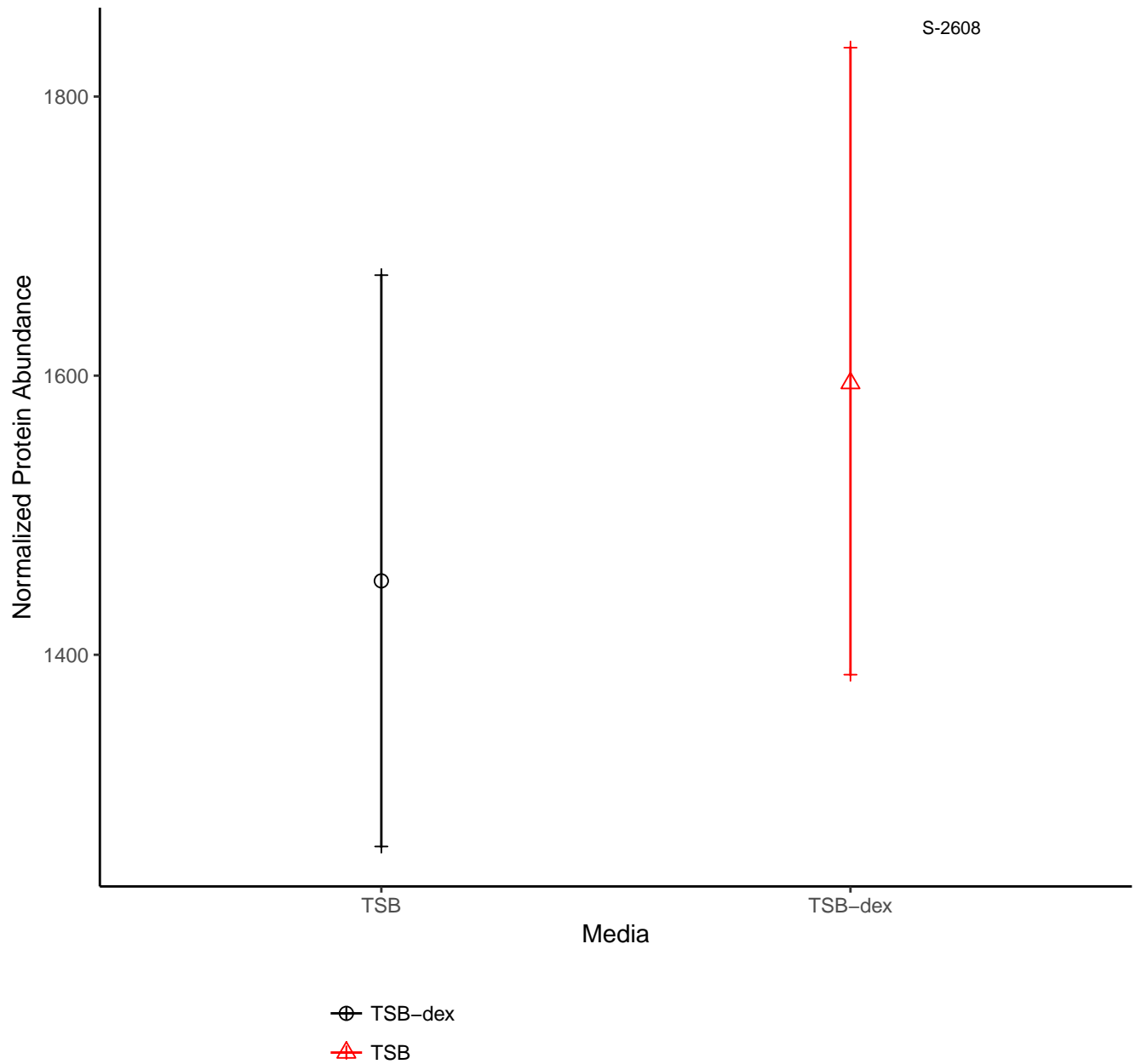
# EFTU\_STAAM



# ENO\_STAAM

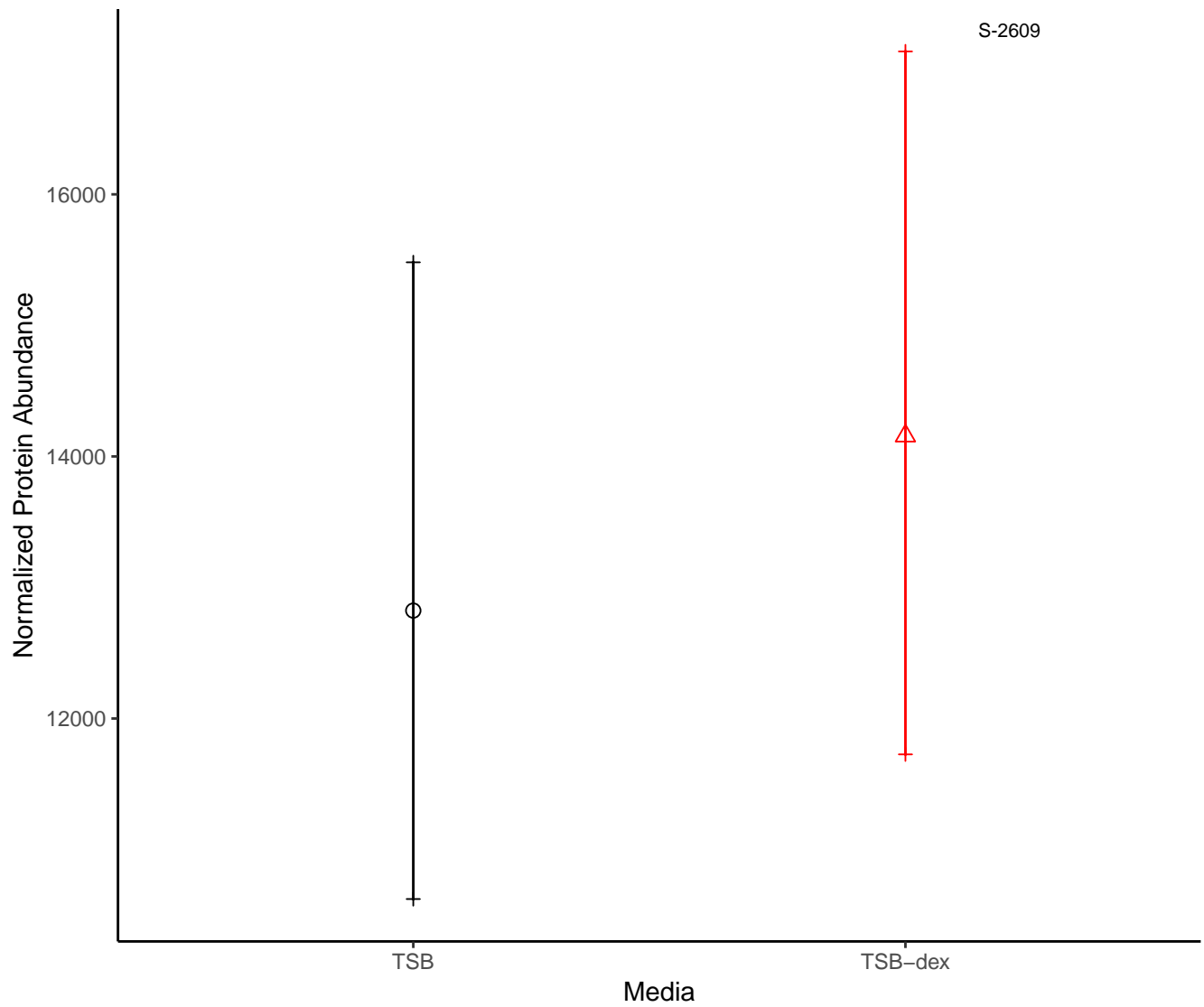


# ERA\_STAAM





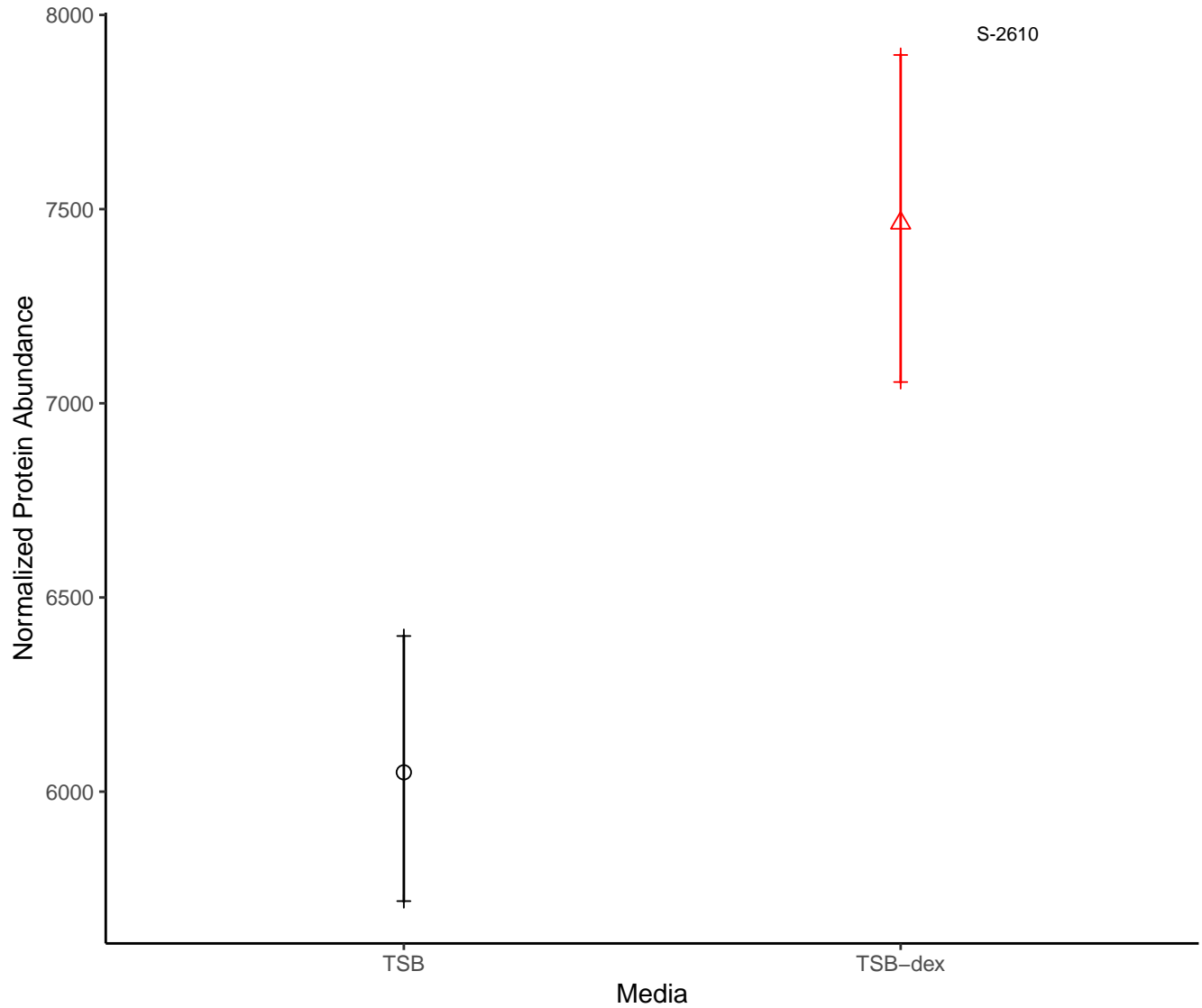
# ERMA\_STAAM



⊕ TSB-dex

△ TSB

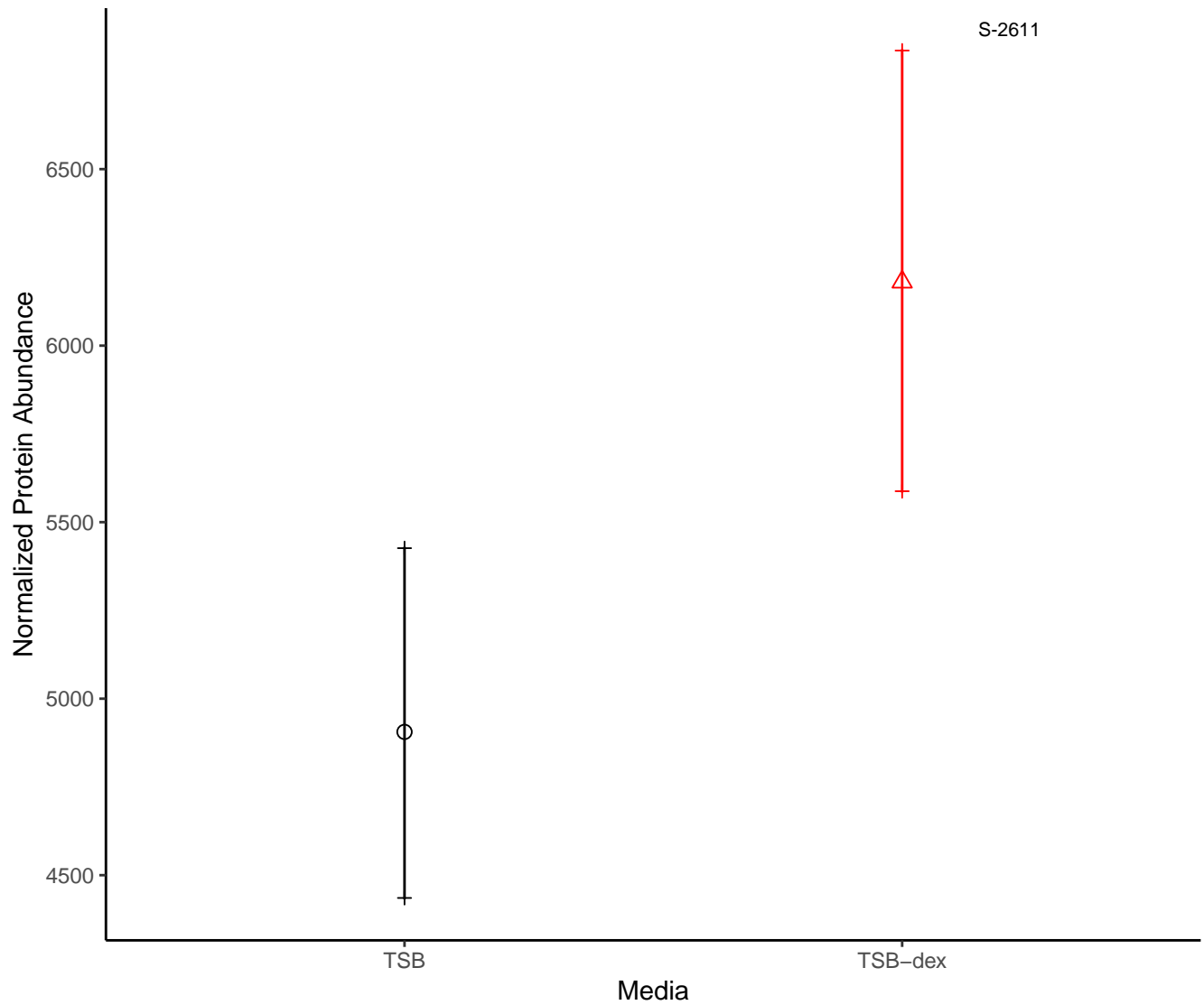
# ESSA\_STAAM



⊕ TSB-dex

△ TSB

# ESXA\_STAAM

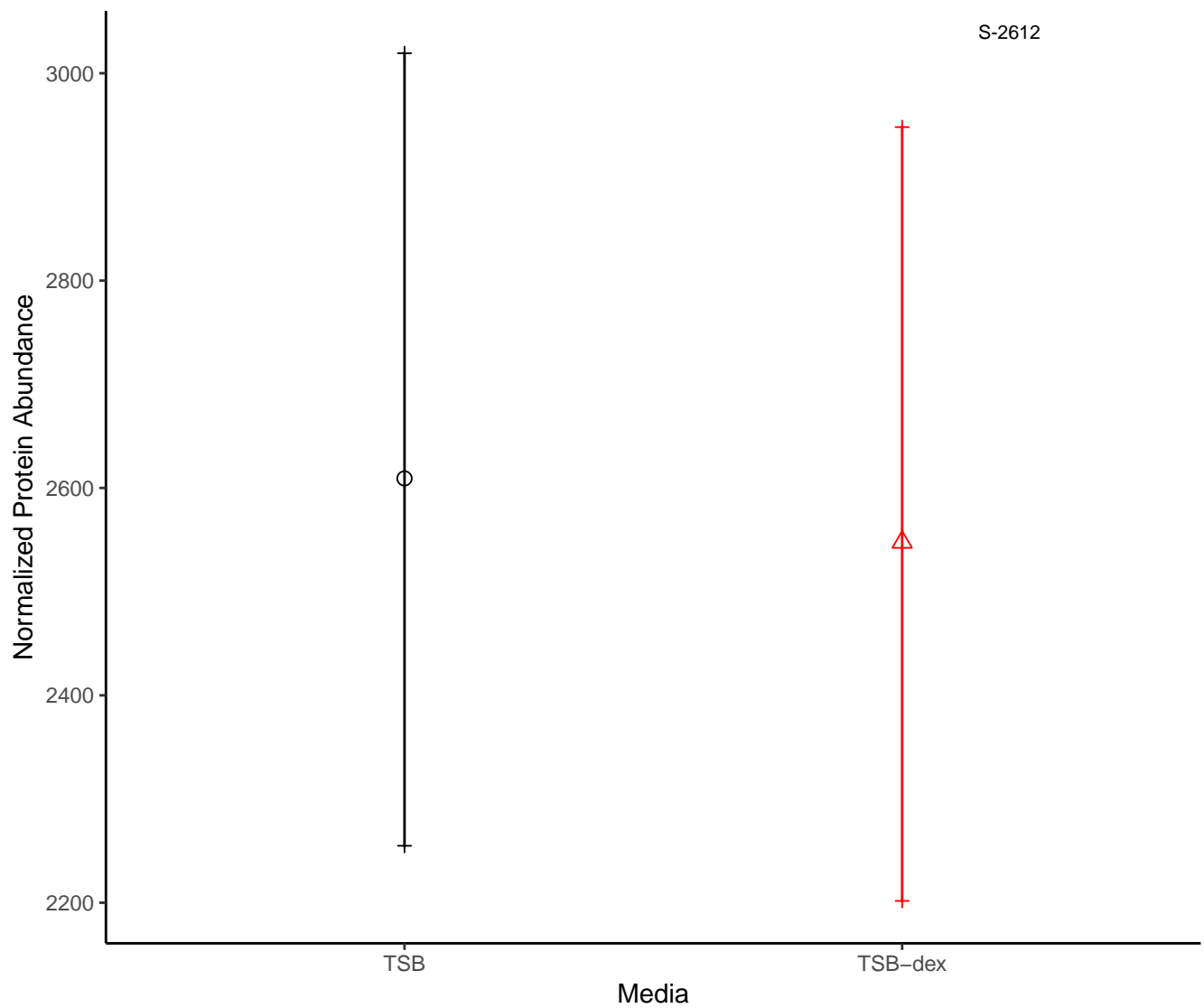


⊕ TSB-dex

△ TSB

# EX7L\_STAAM

S-2612

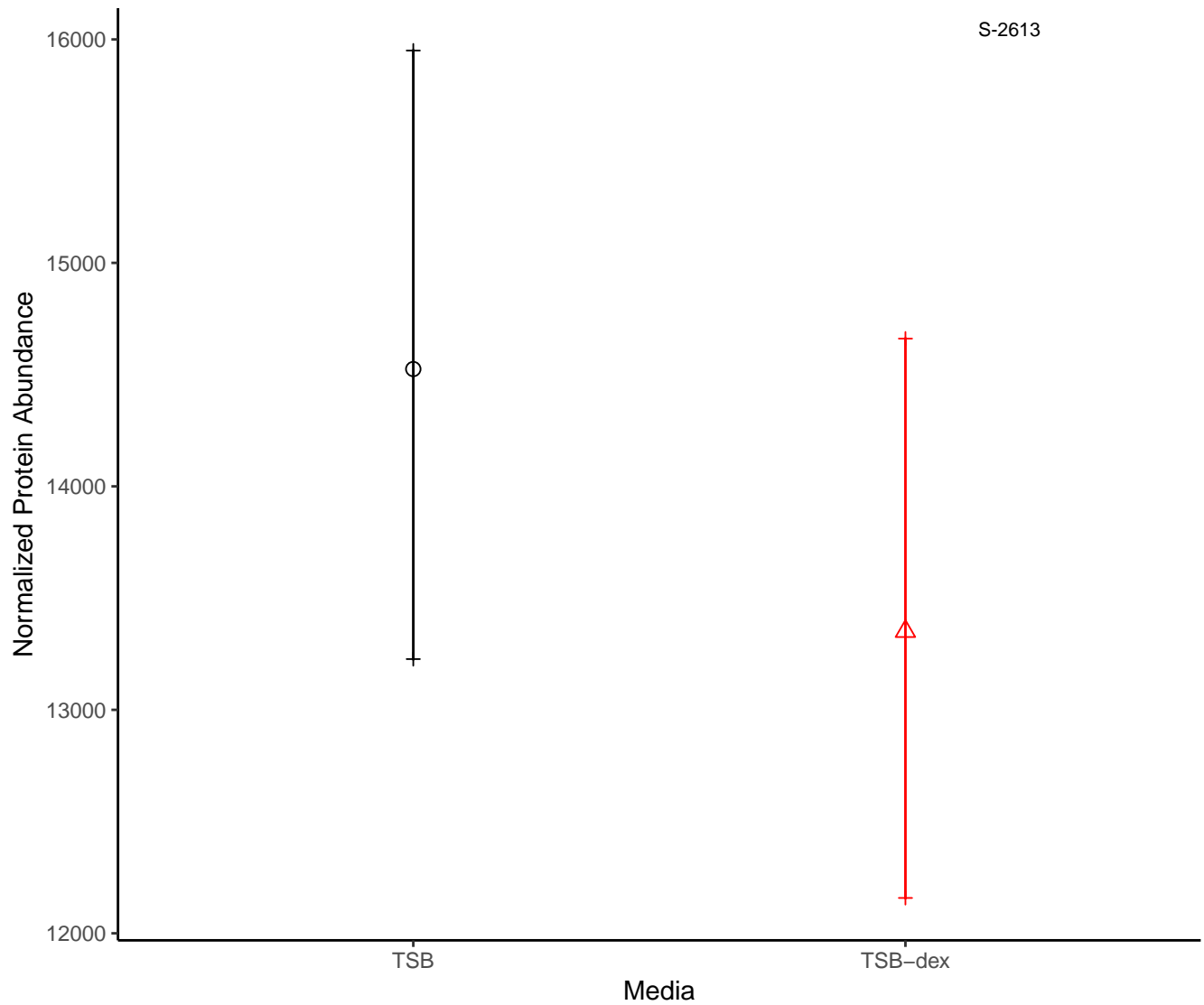


⊕ TSB-dex

△ TSB

# EZRA\_STAAM

S-2613

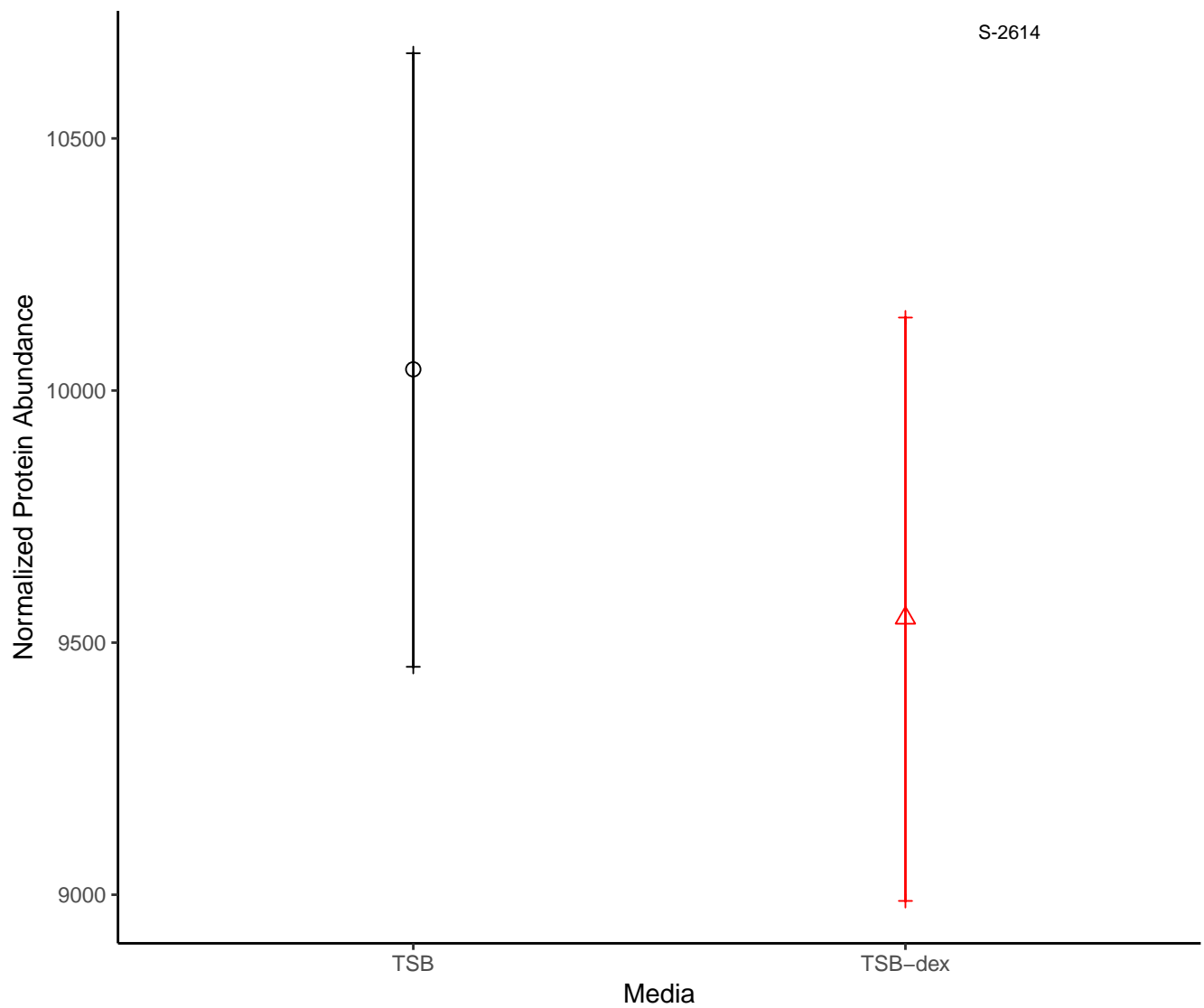


⊕ TSB-dex

△ TSB

# FABD\_STAAM

S-2614

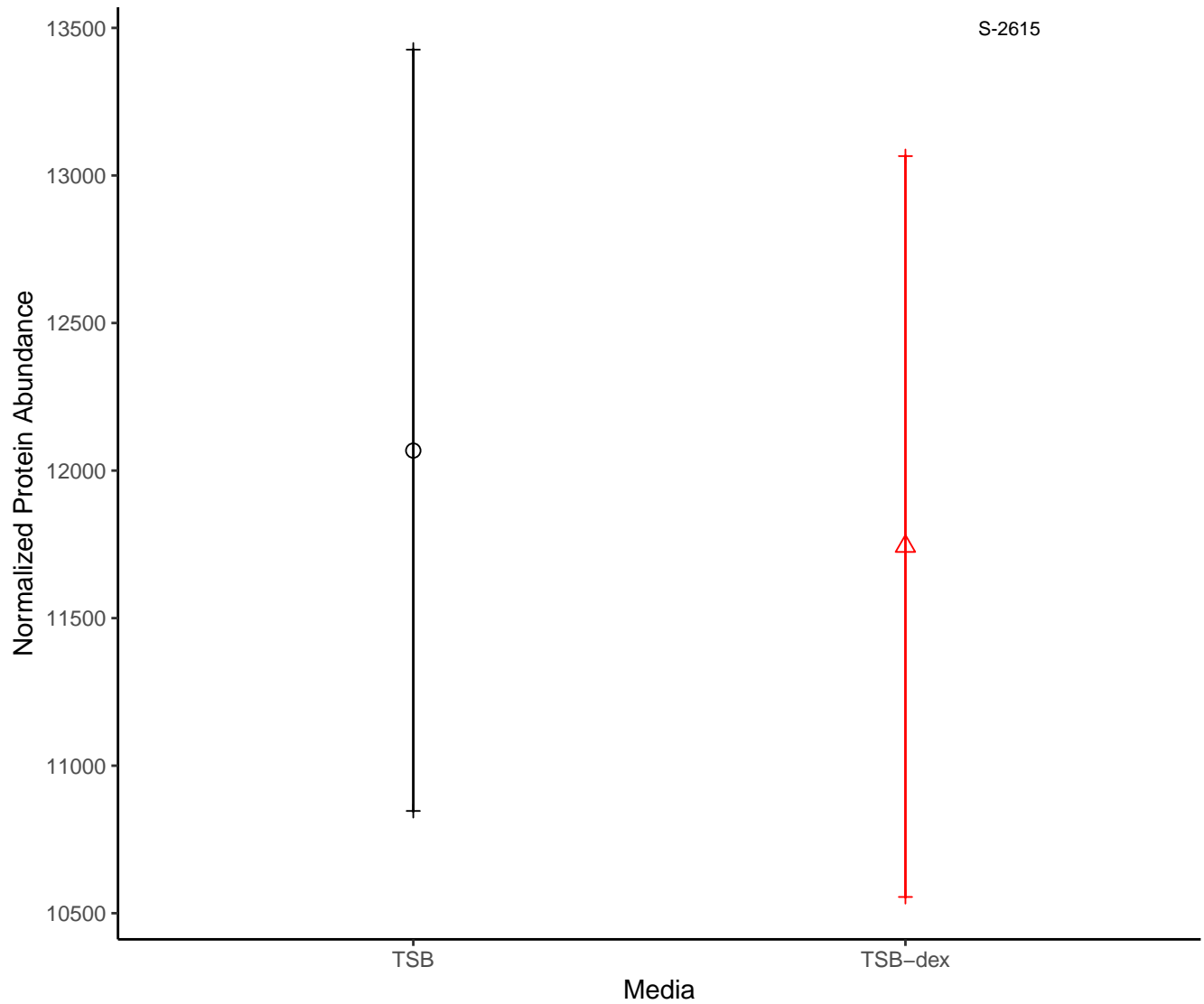


⊖ TSB-dex

△ TSB

# FABF\_STAAM

S-2615

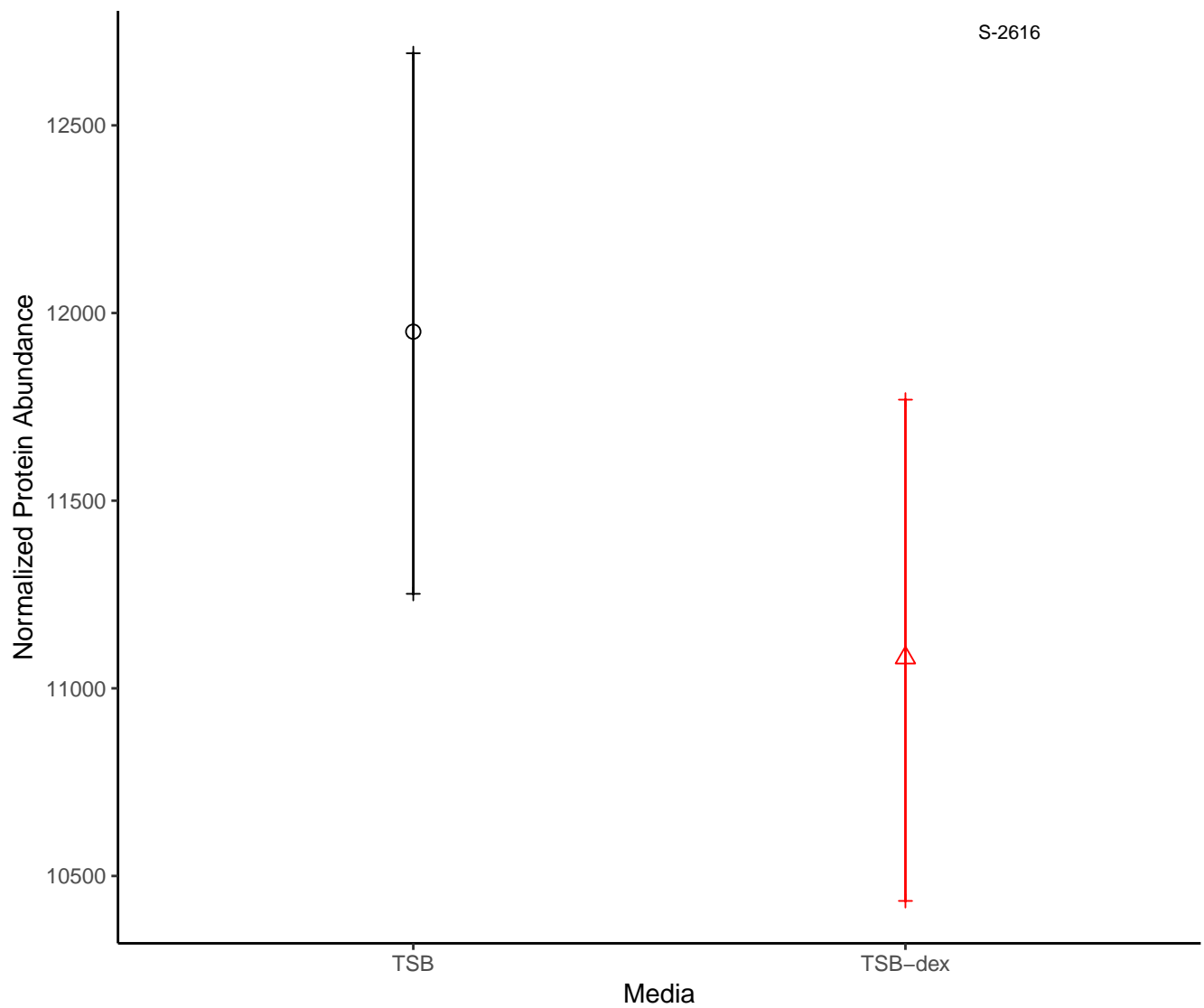


⊕ TSB-dex

△ TSB

# FABG\_STAAM

S-2616



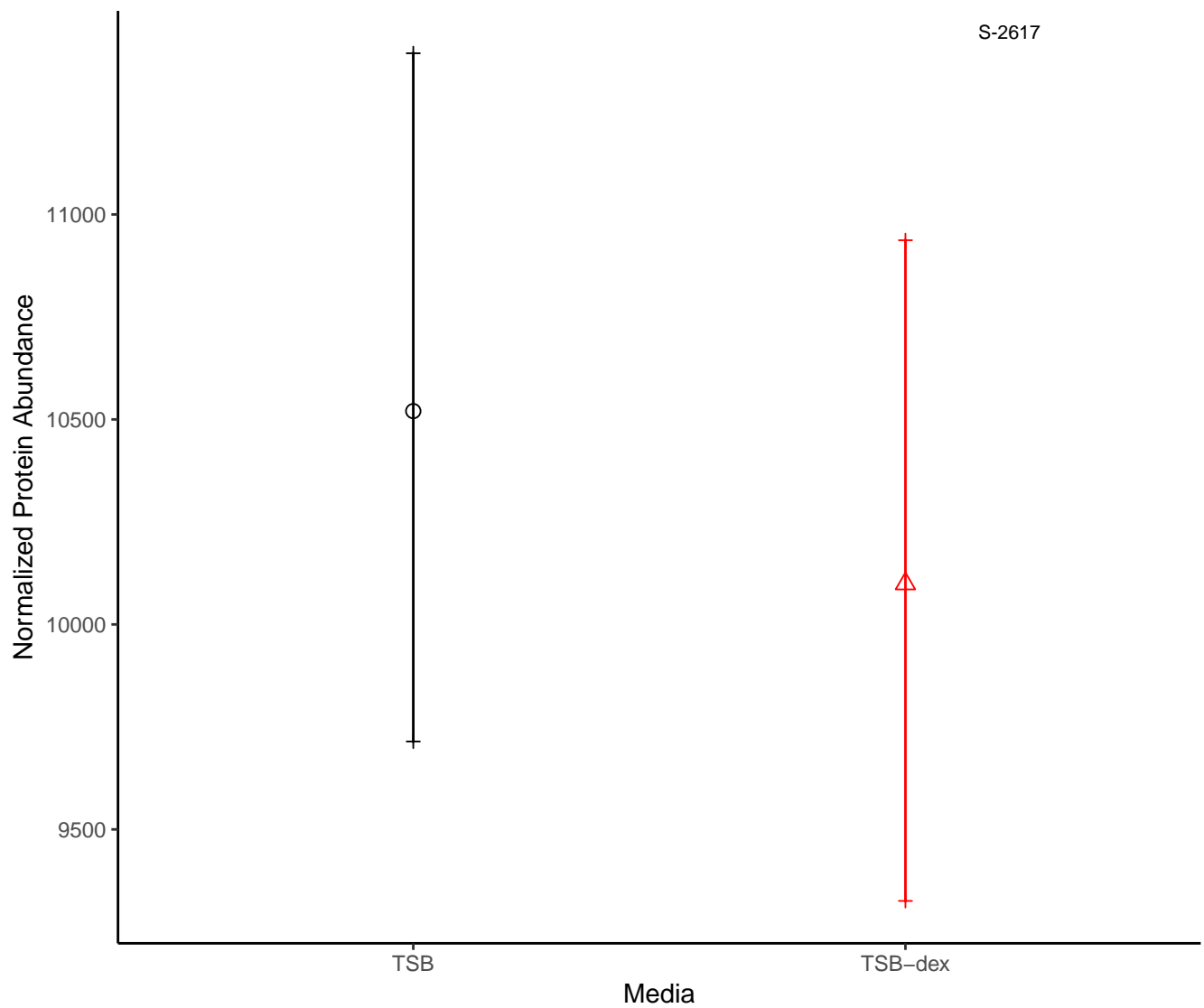
⊙ TSB-dex

△ TSB



# FABH\_STAAM

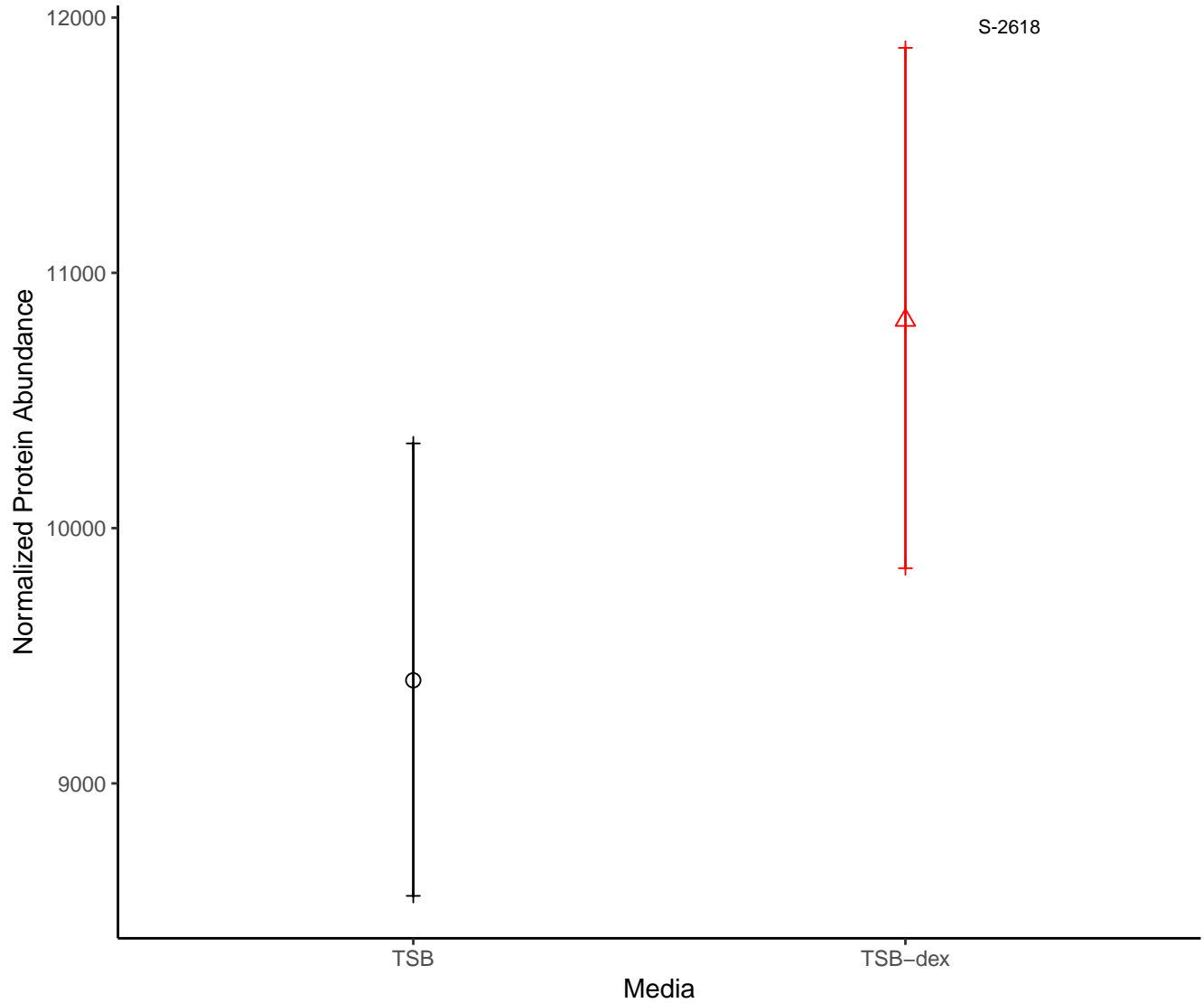
S-2617



⊕ TSB-dex

△ TSB

# FABZ\_STAAM

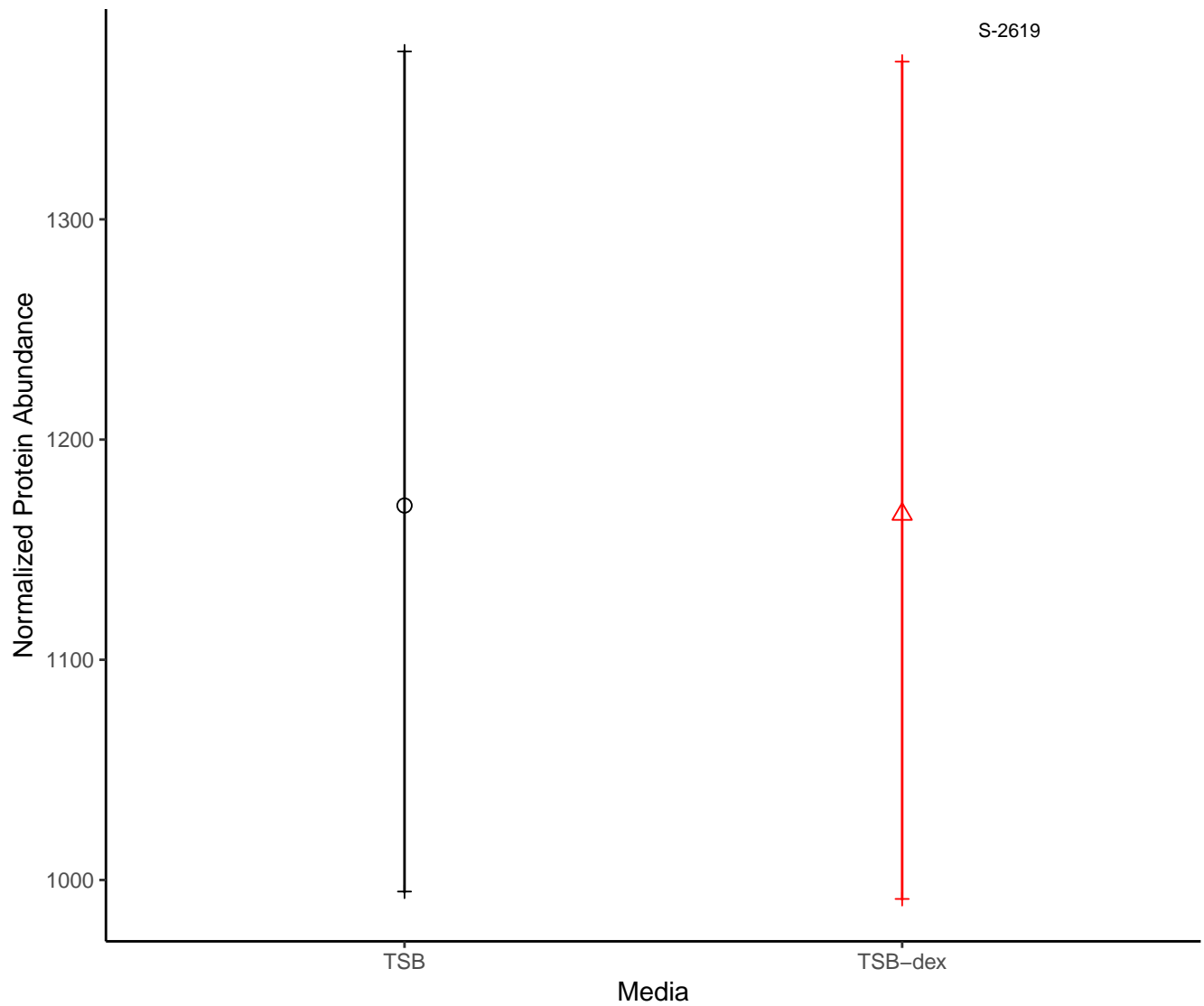


⊖ TSB-dex

△ TSB

# FEMA\_STAAM

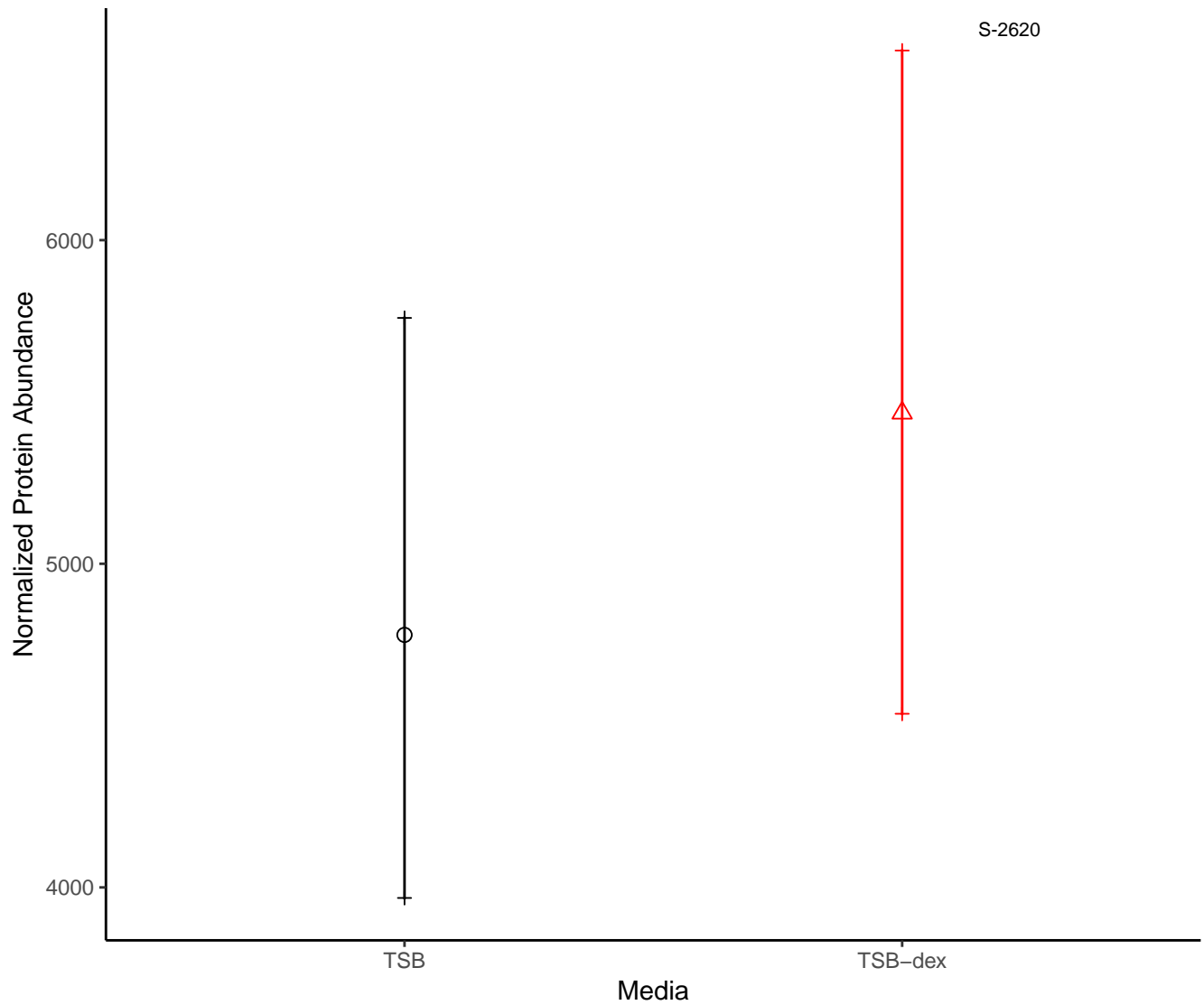
S-2619



⊕ TSB-dex

△ TSB

# FEMB\_STAAM

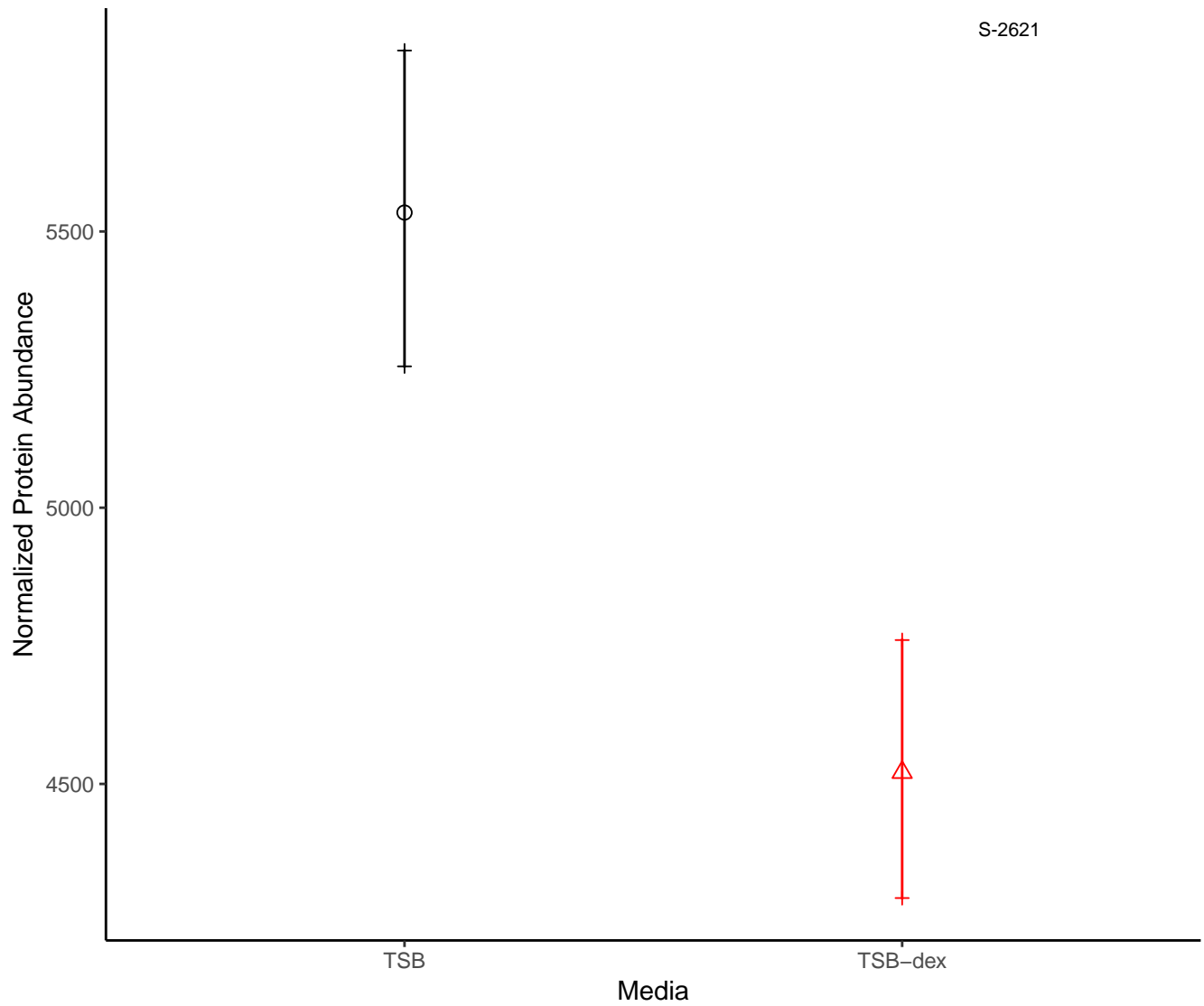


⊕ TSB-dex

△ TSB

# FEMX\_STAAM

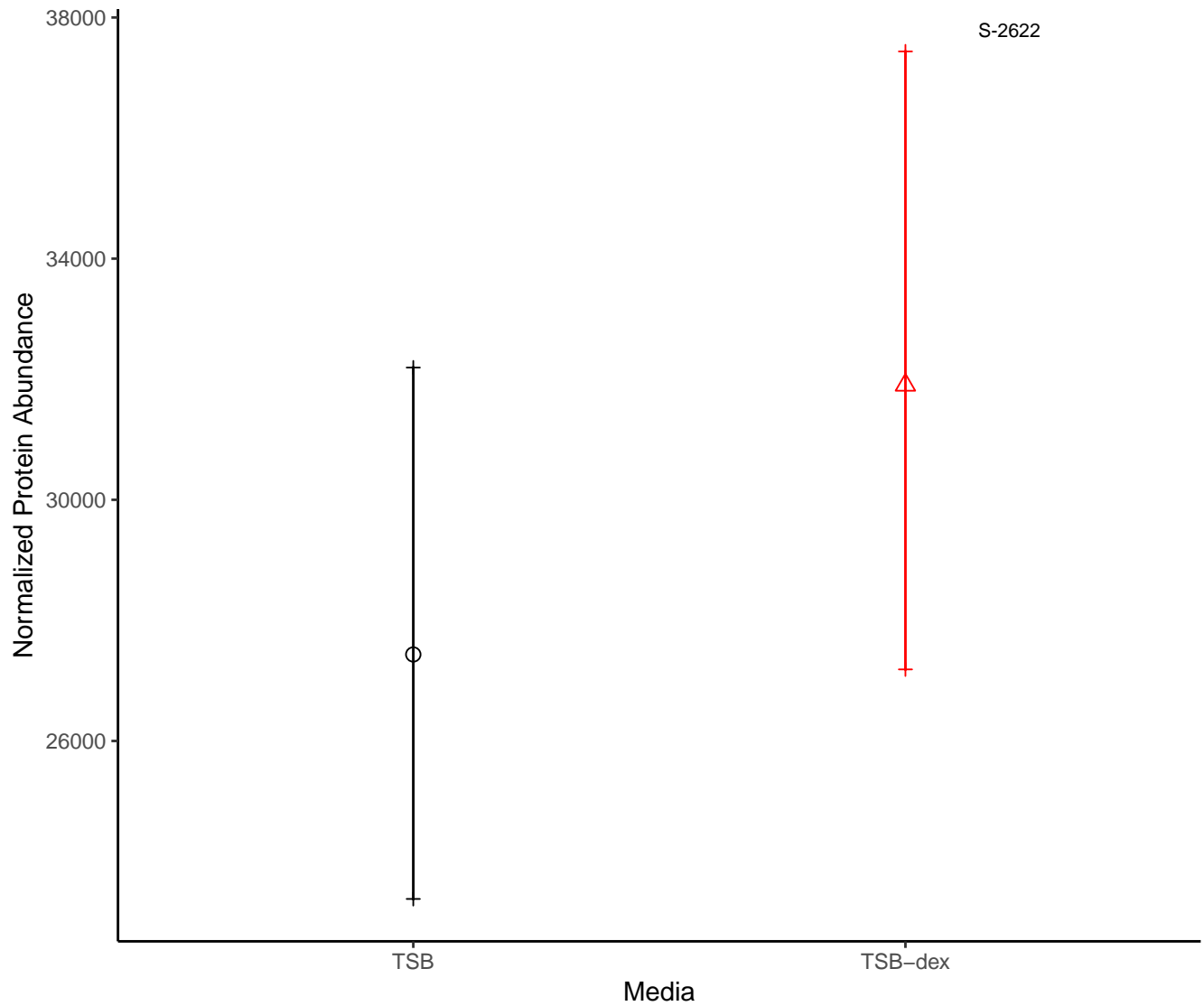
S-2621



⊕ TSB-dex

△ TSB

# FENR\_STAAM

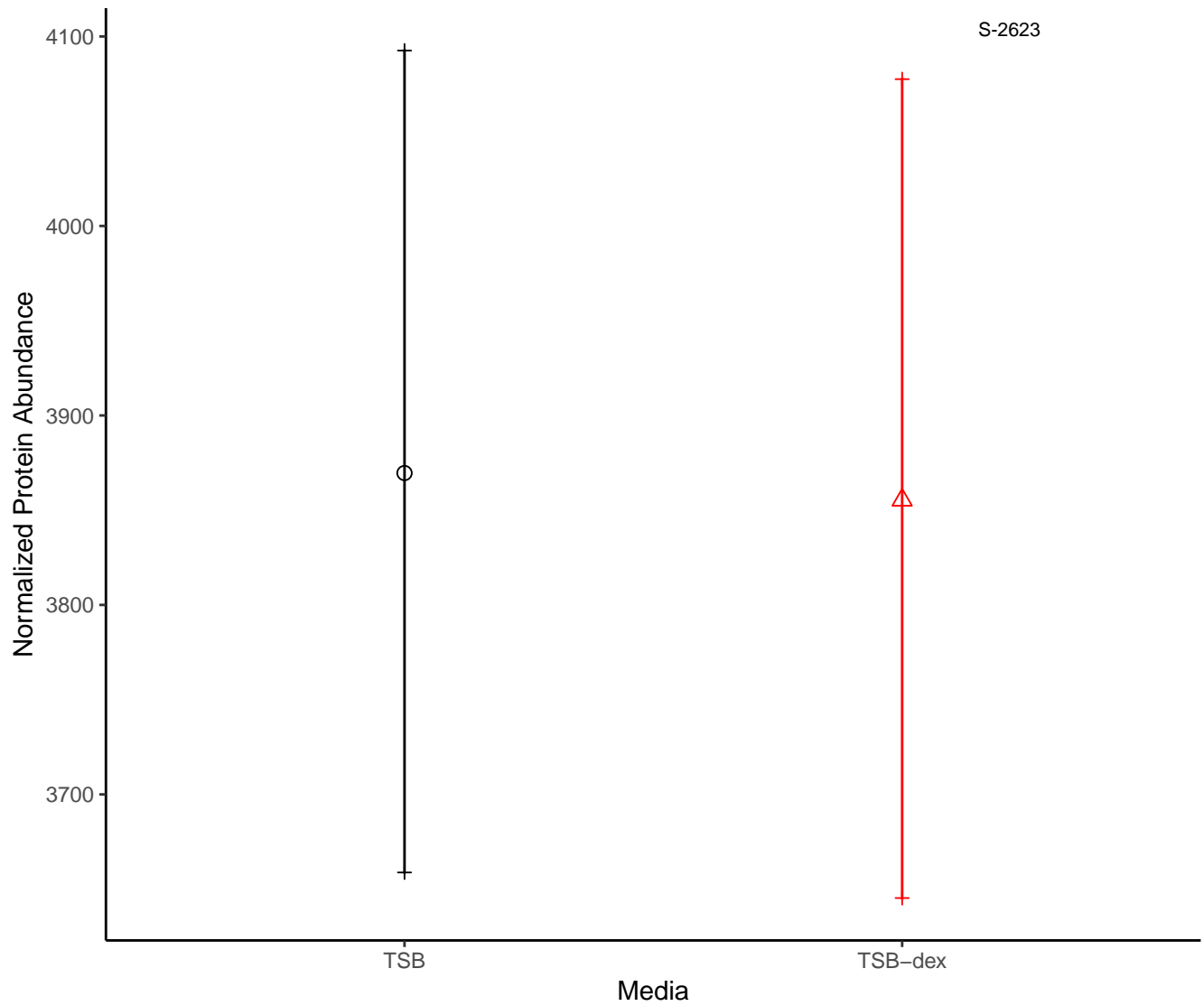


⊕ TSB-dex

△ TSB

# FLIPR\_STAAM

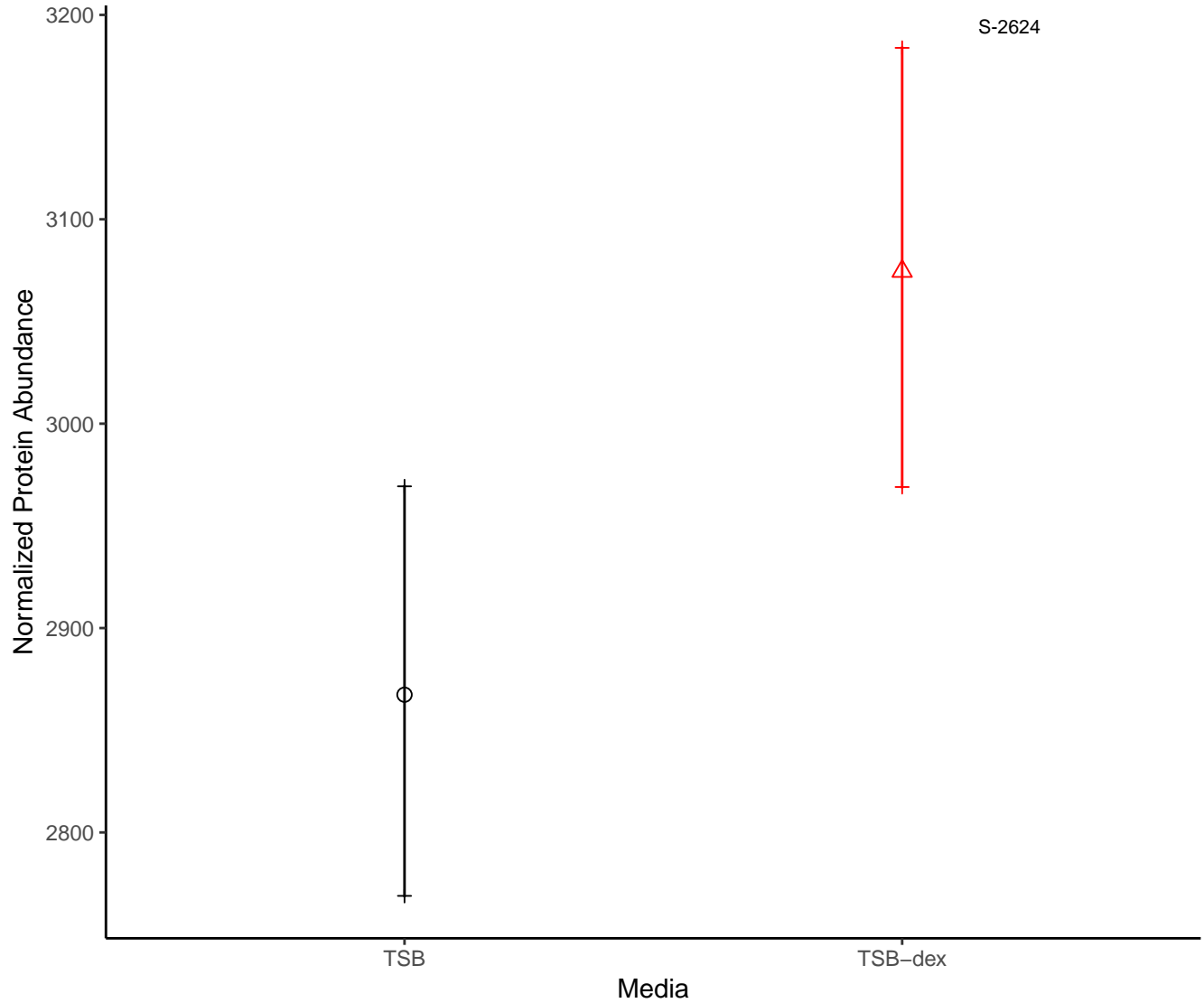
S-2623



⊕ TSB-dex

△ TSB

# FMT\_STAAM

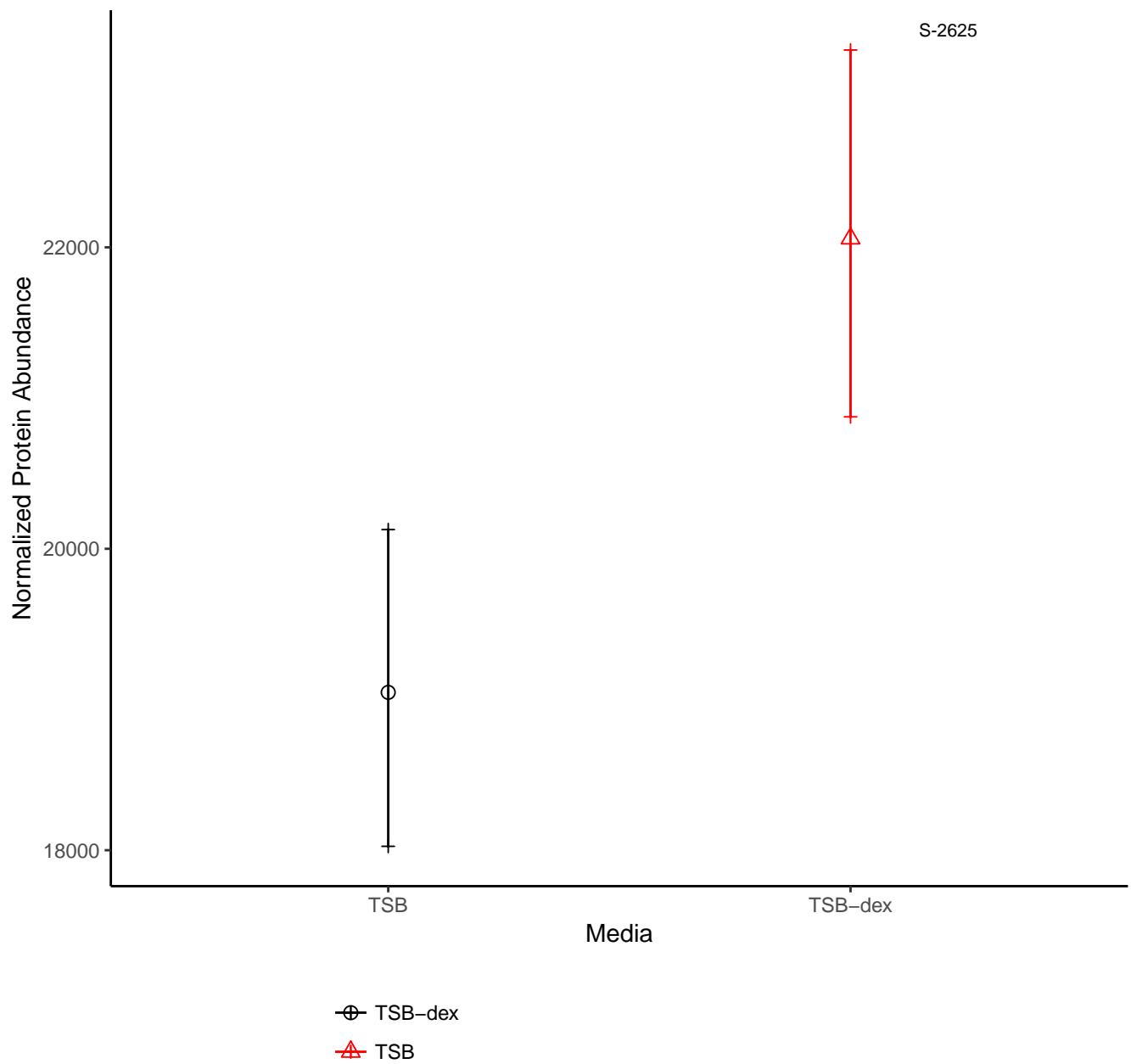


⊕ TSB-dex

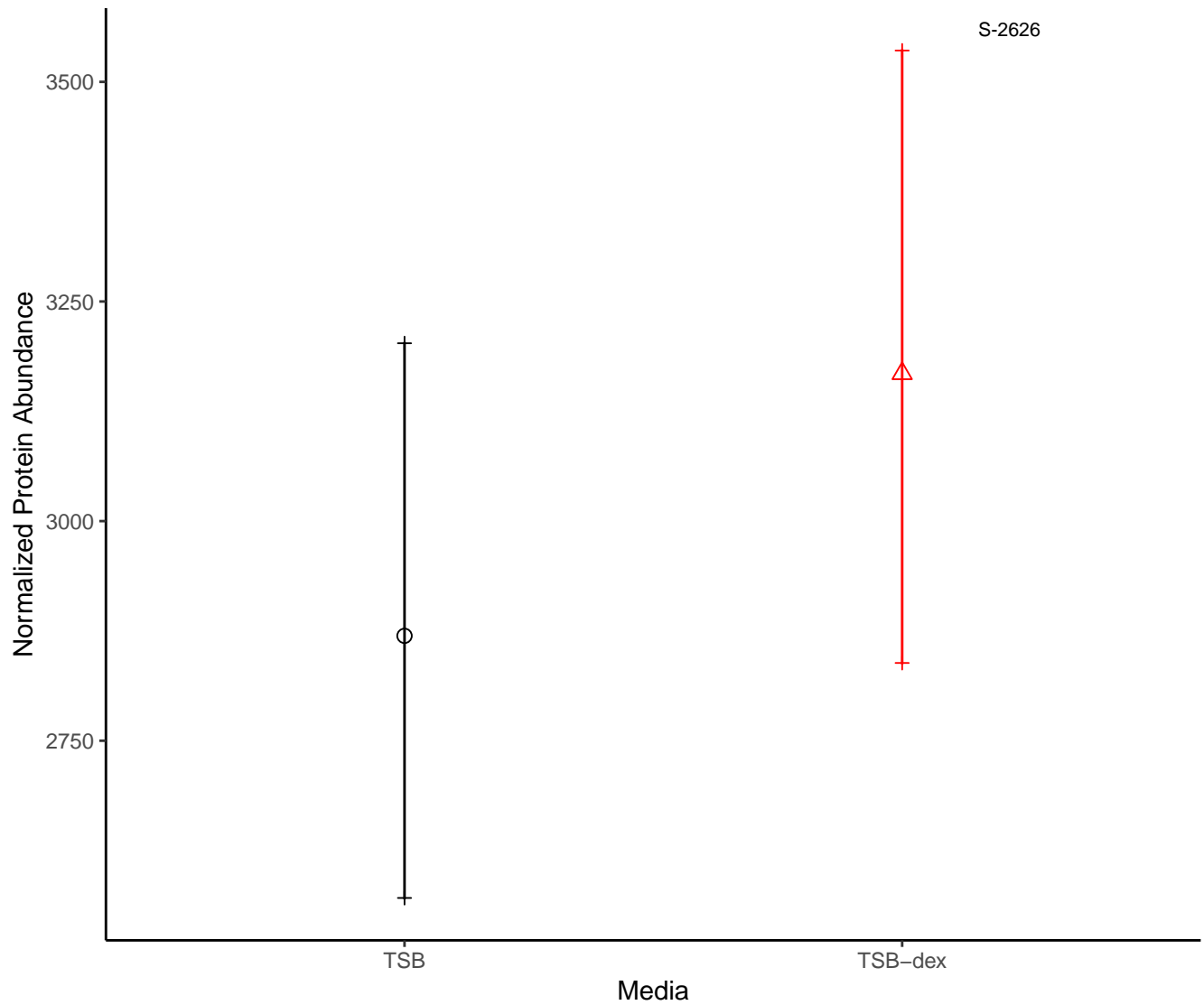
△ TSB



# FMTA\_STAAM



# FOLB\_STAAM

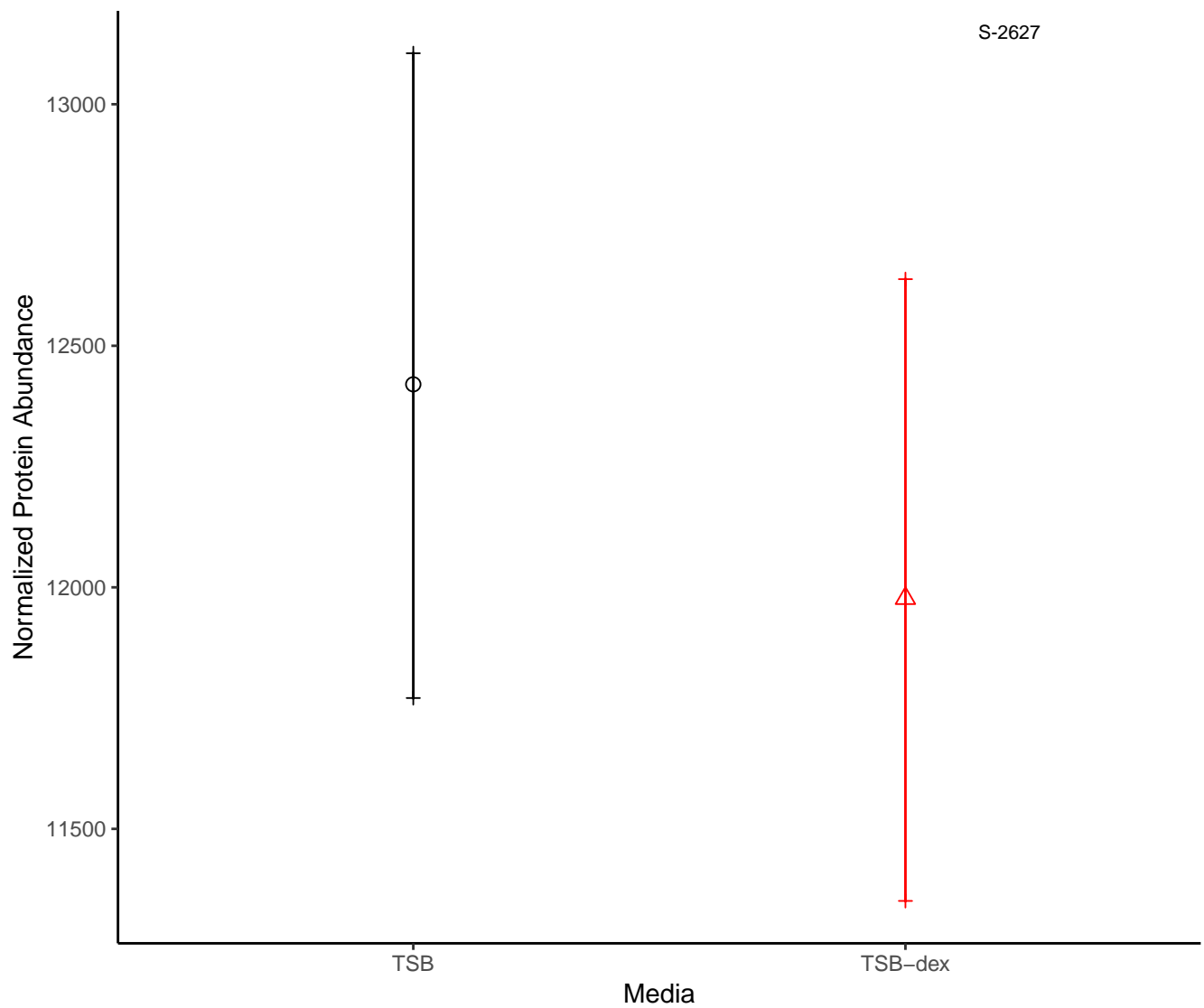


⊕ TSB-dex

△ TSB

# FOLD\_STAAM

S-2627

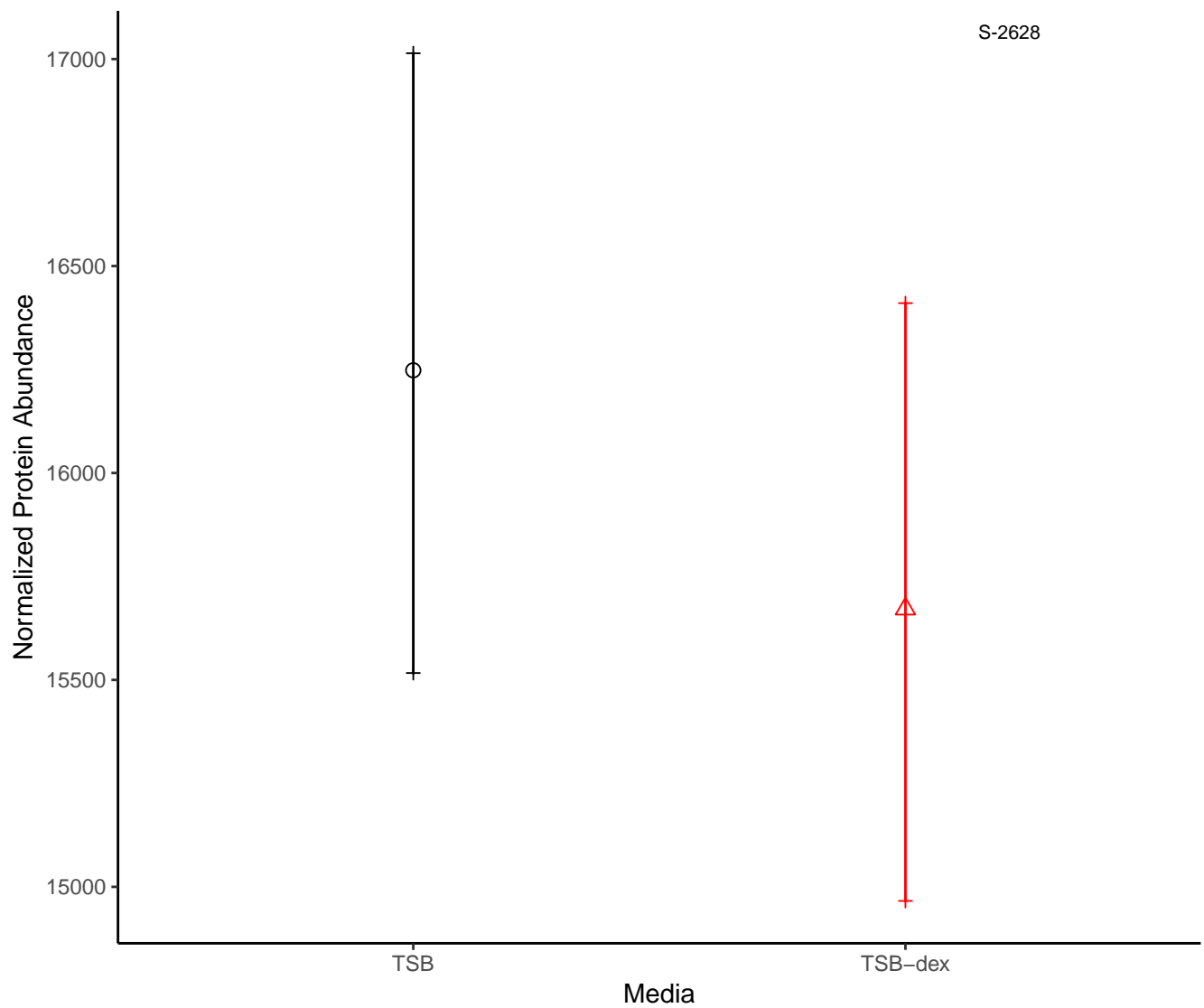


⊙ TSB-dex

△ TSB

# FTHS\_STAAM

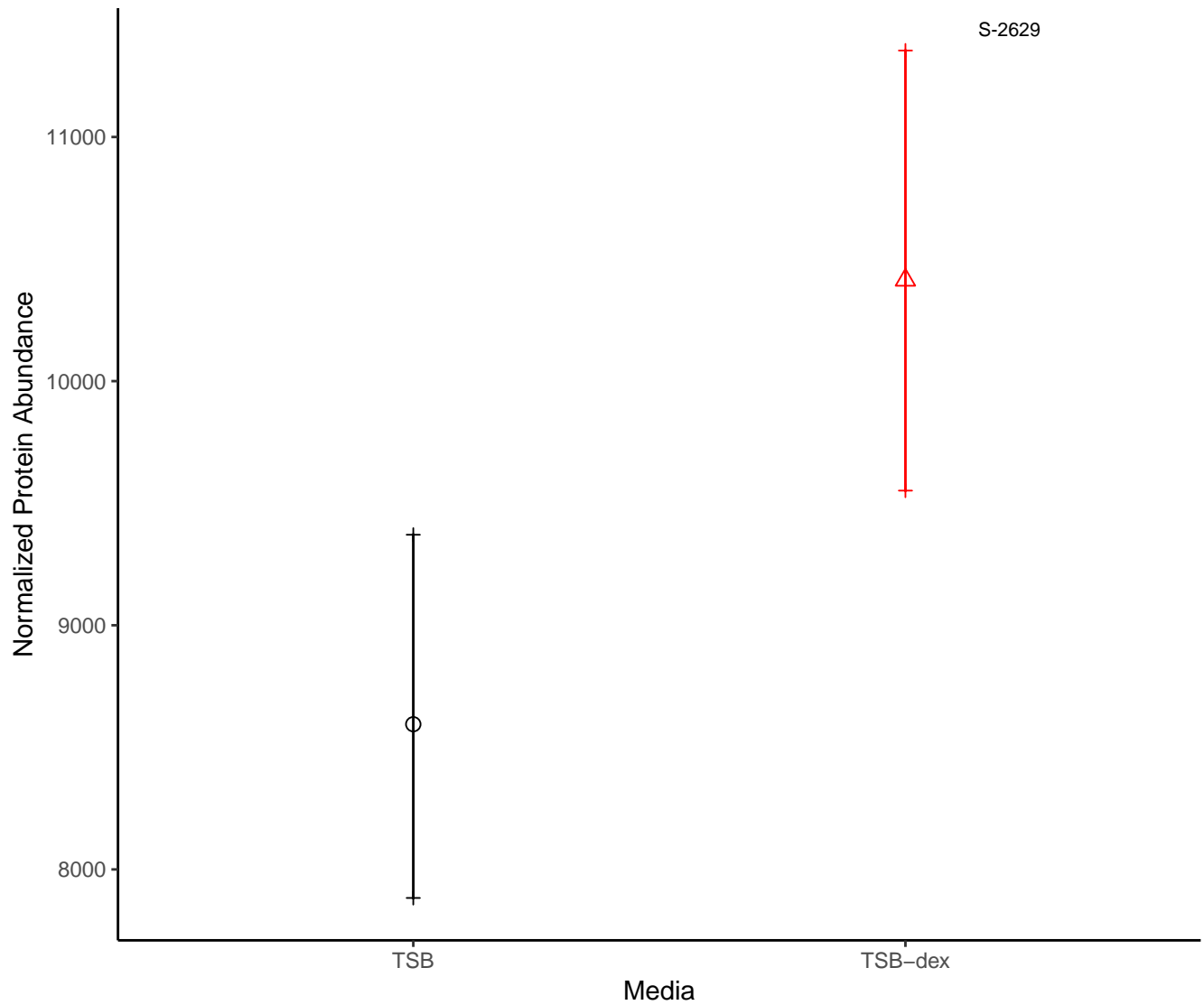
S-2628



⊕ TSB-dex

△ TSB

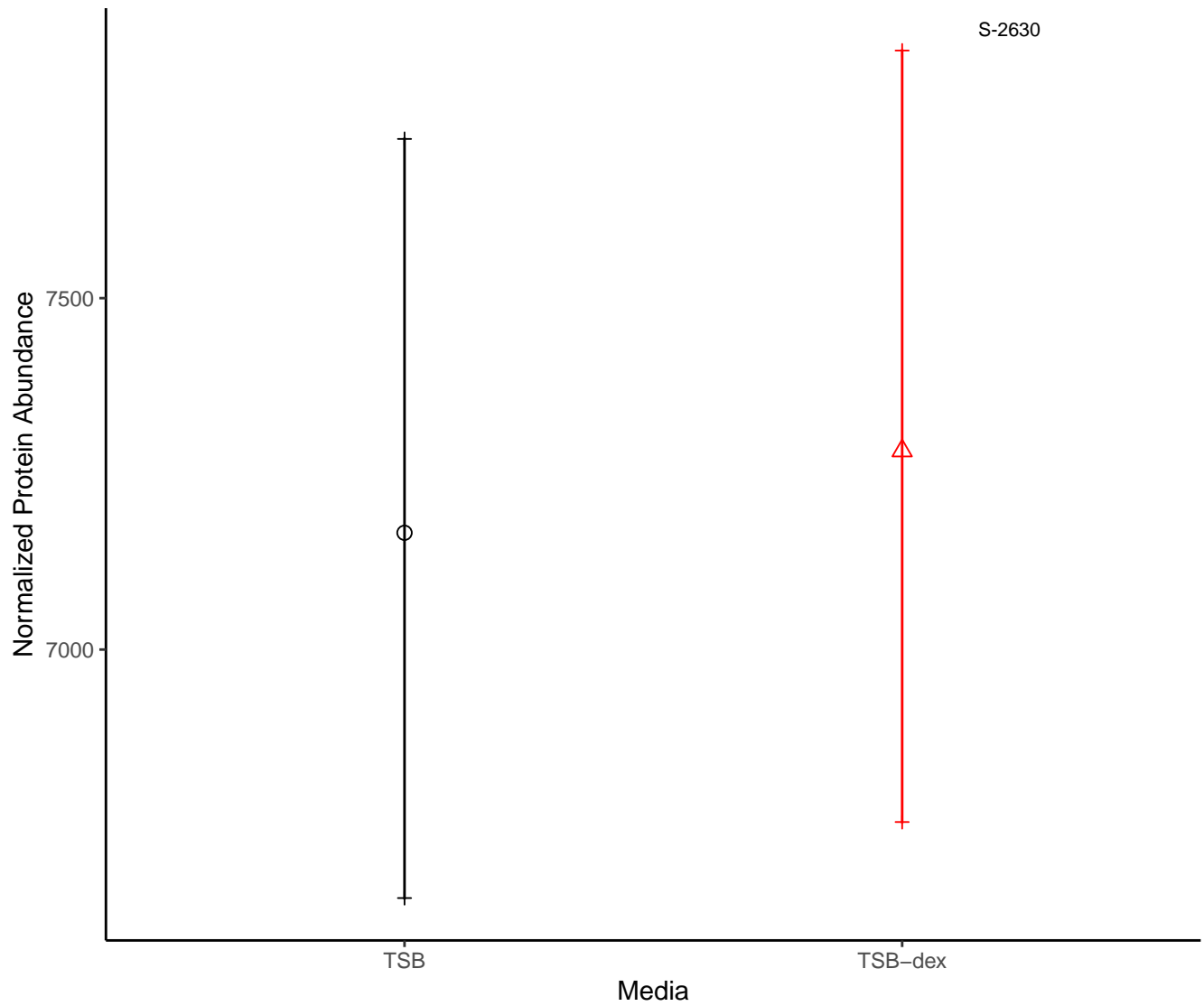
# FTN\_STAAM



⊖ TSB-dex

△ TSB

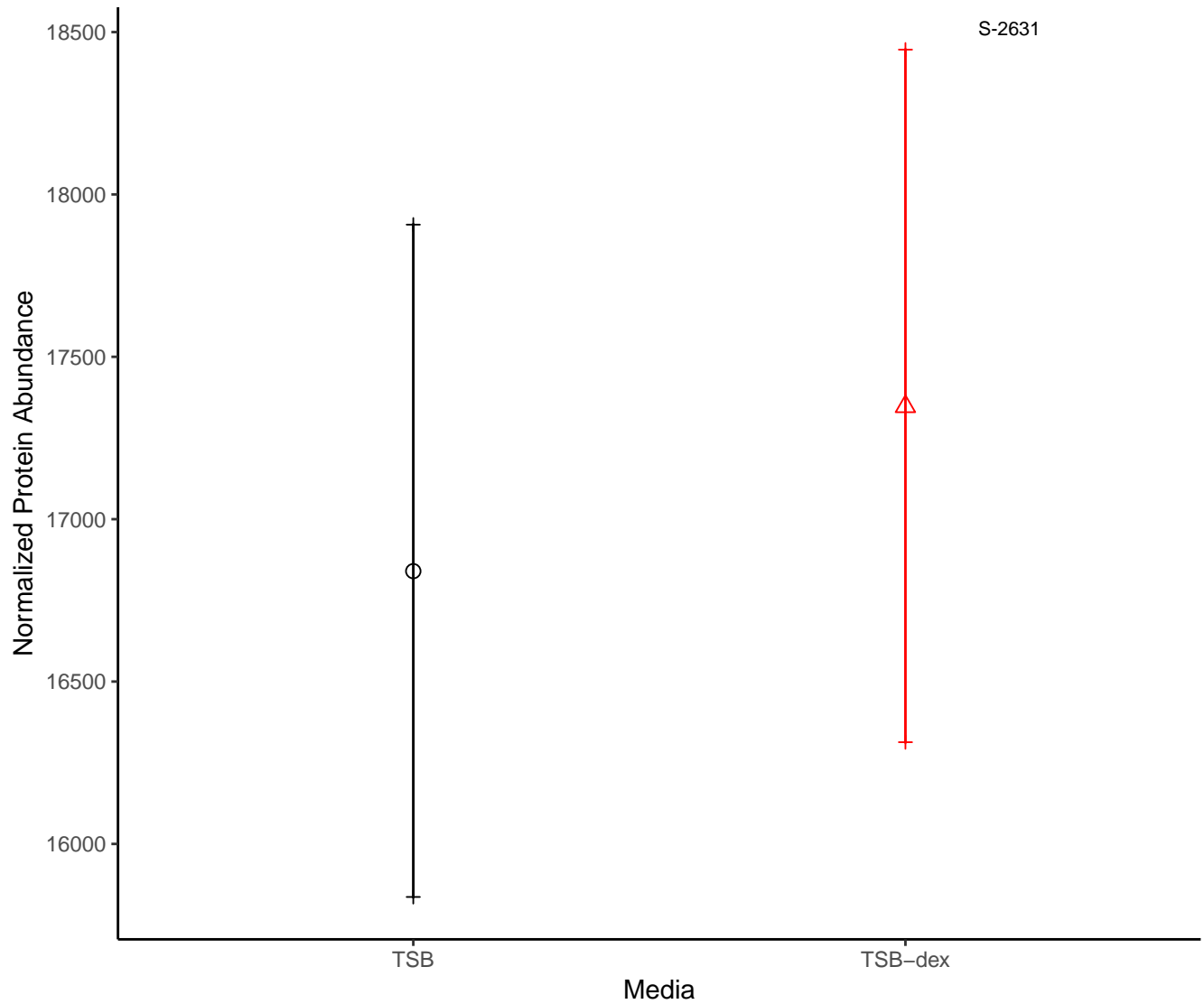
# FTSA\_STAAM



⊕ TSB-dex

△ TSB

# FTSZ\_STAAM

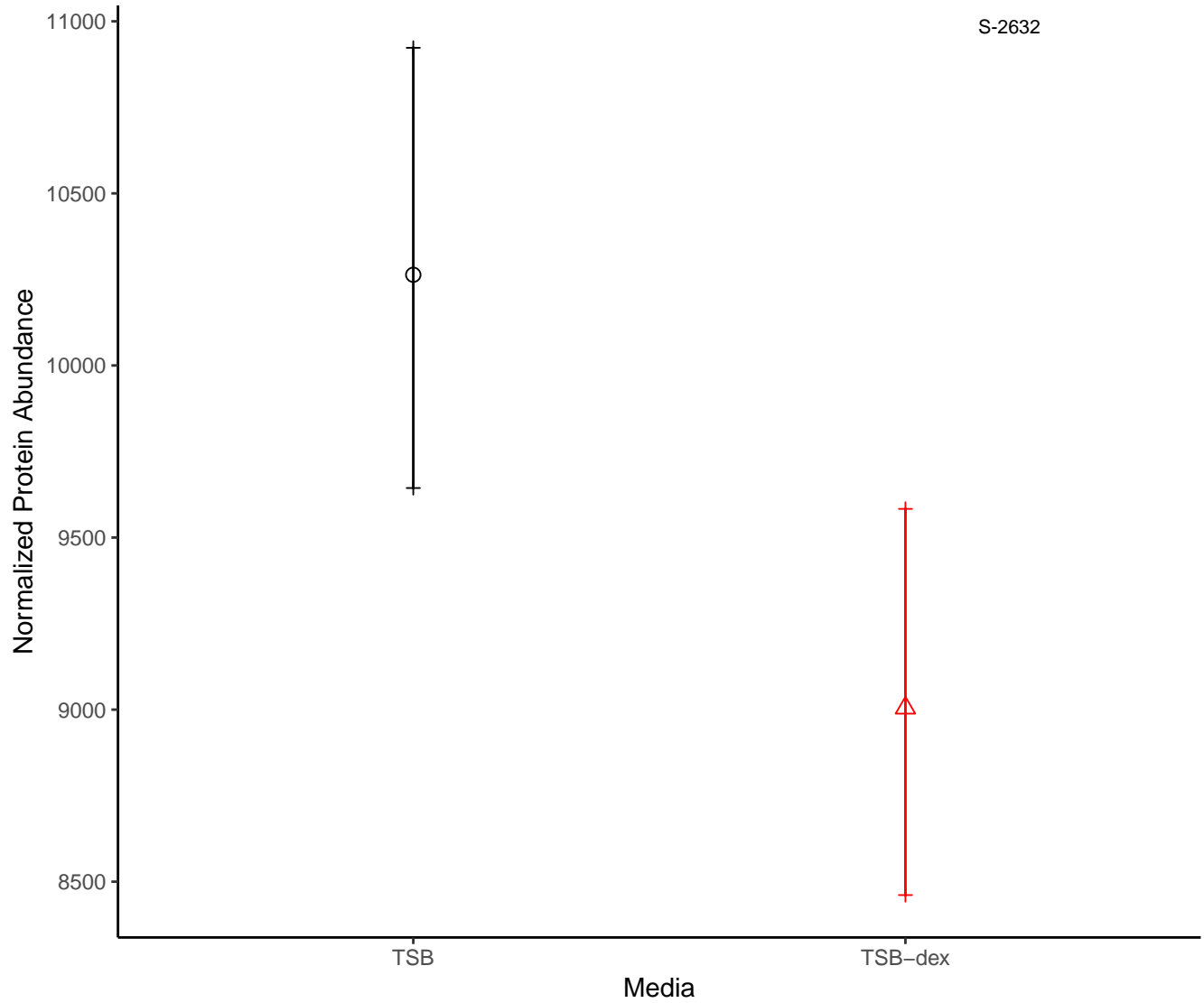


⊕ TSB-dex

△ TSB

# FUMC\_STAAM

S-2632

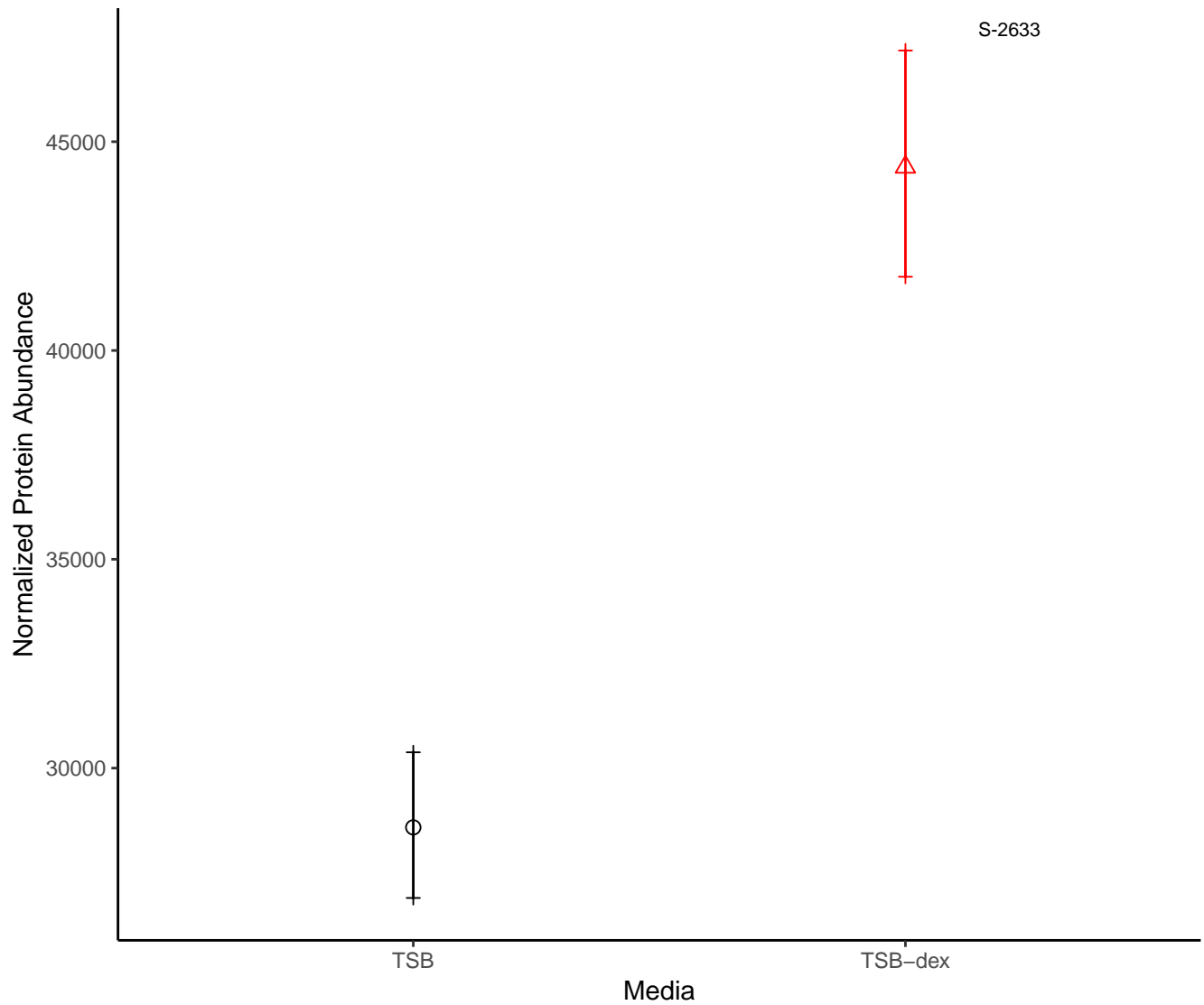


⊖ TSB-dex

△ TSB



# G3P1\_STAAM

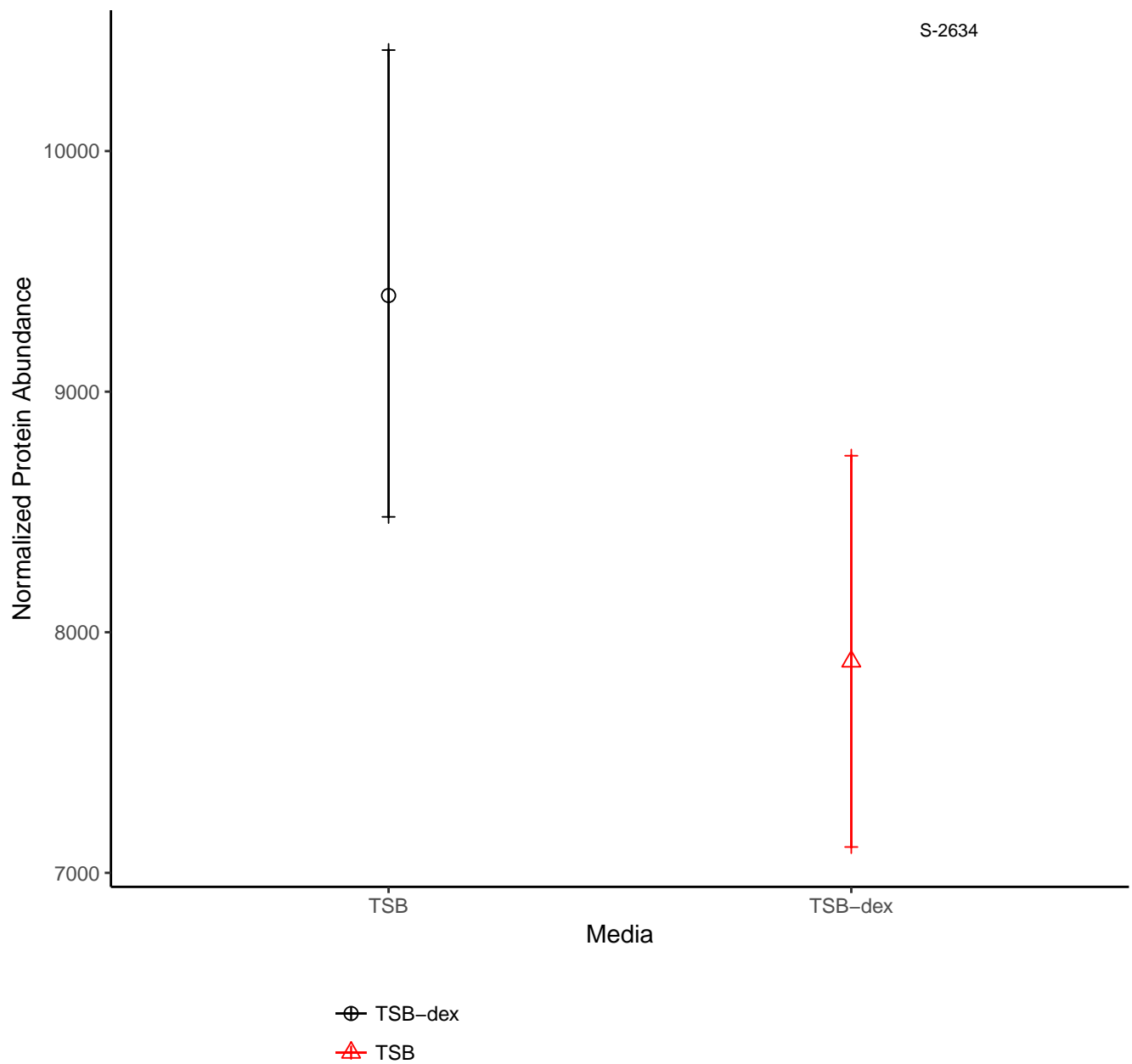


⊖ TSB-dex

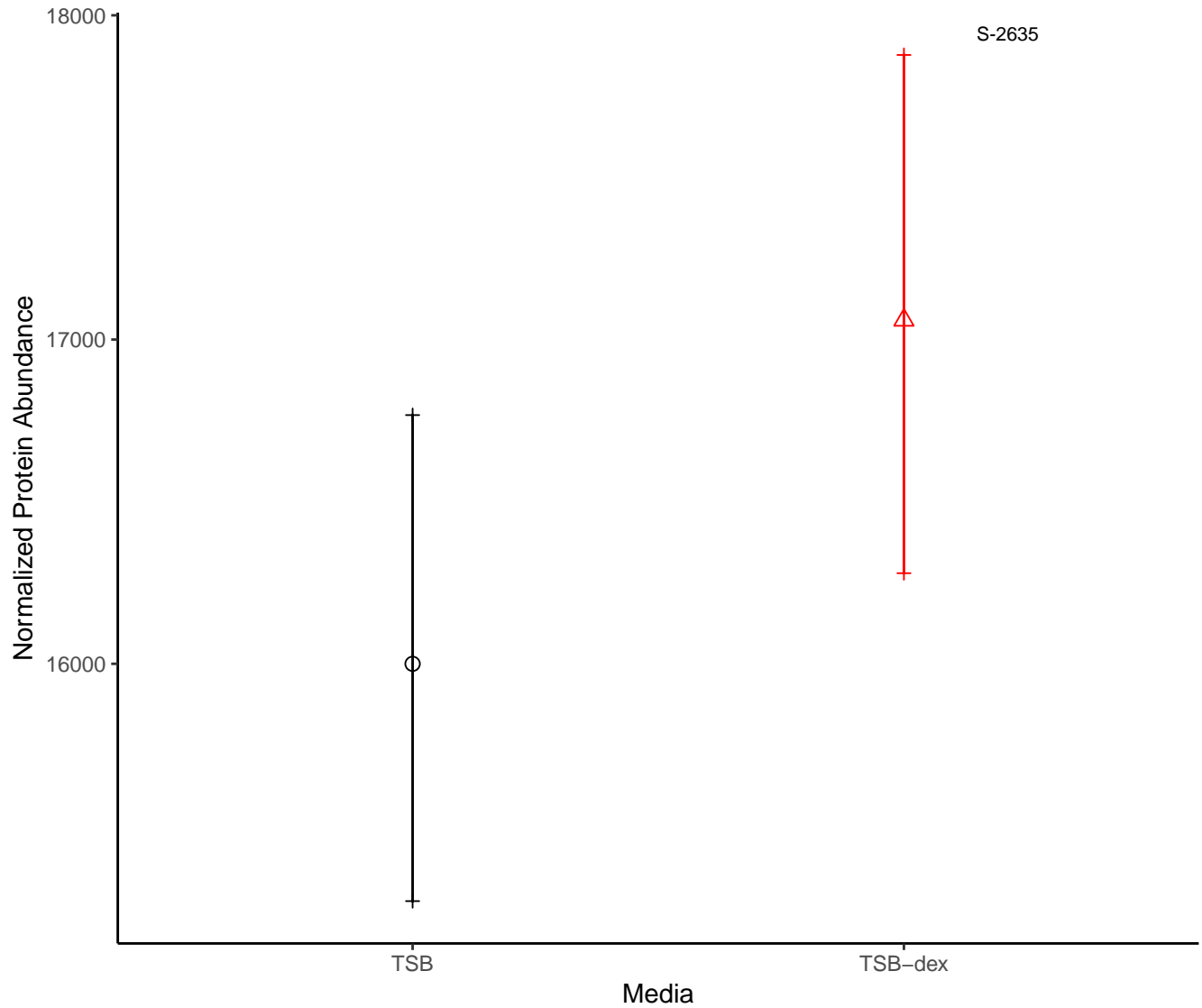
△ TSB

# G3P2\_STAAM

S-2634



# G6PI\_STAAM

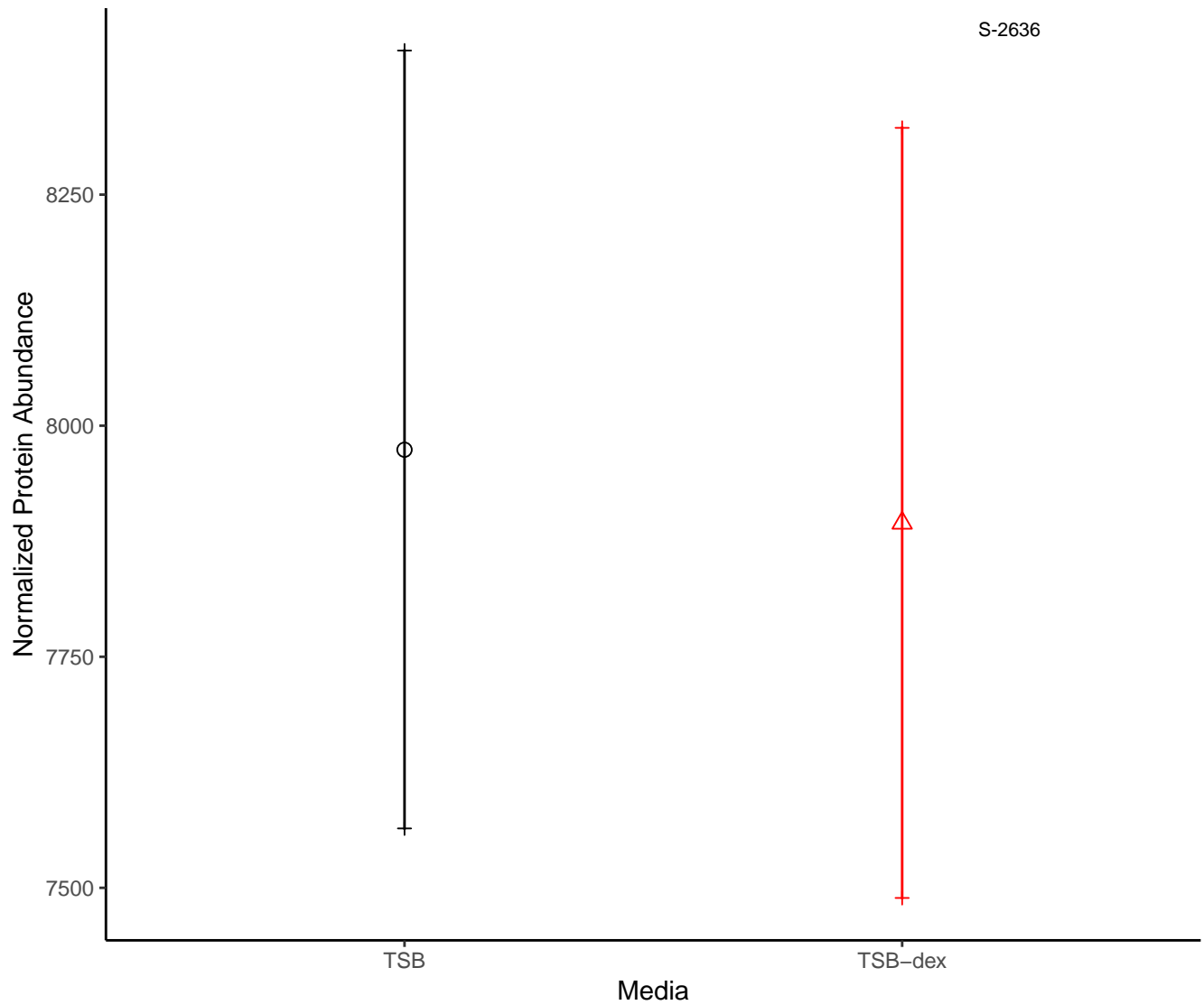


⊕ TSB-dex

△ TSB

# GATA\_STAAM

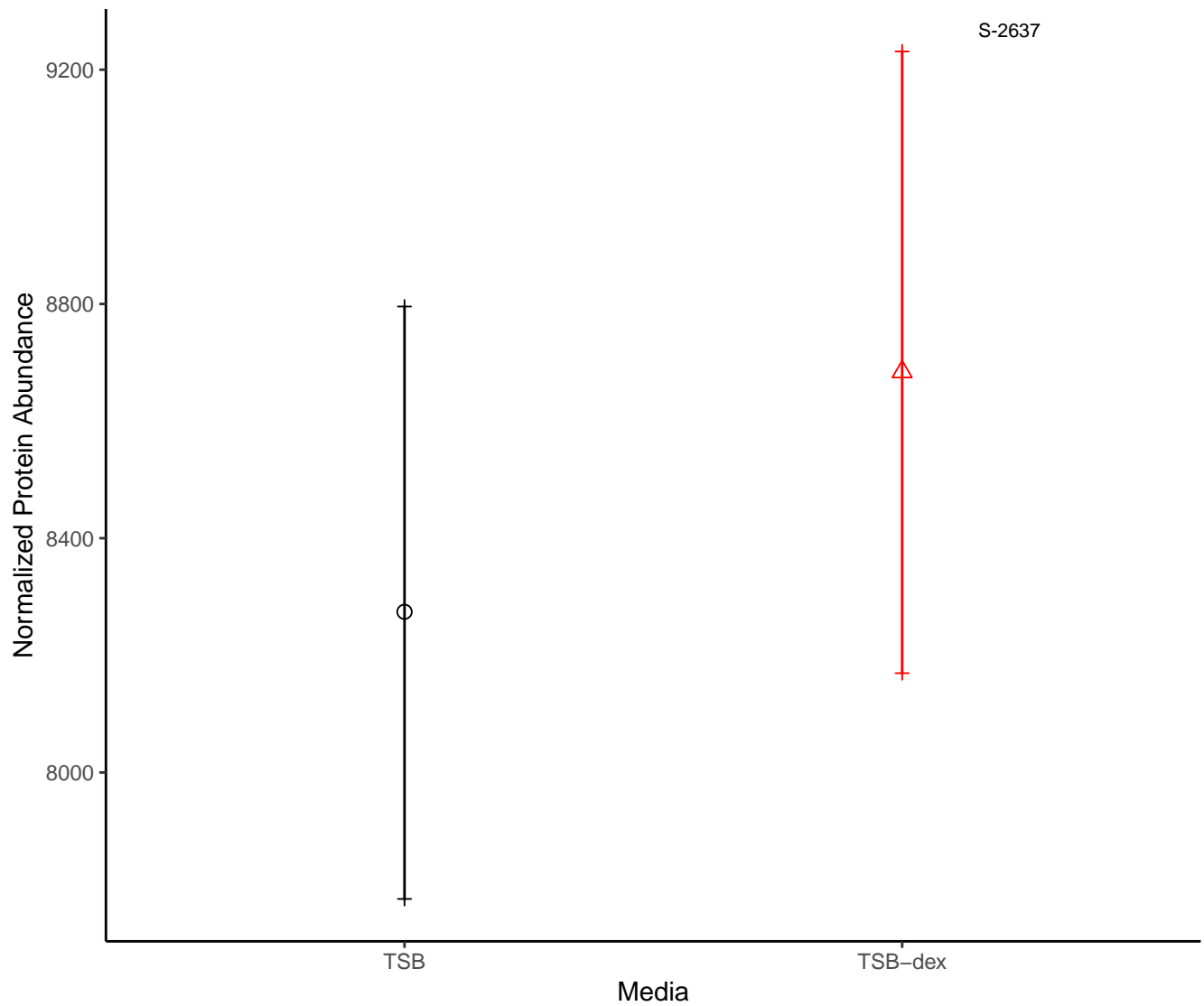
S-2636



⊕ TSB-dex

△ TSB

# GATB\_STAAM

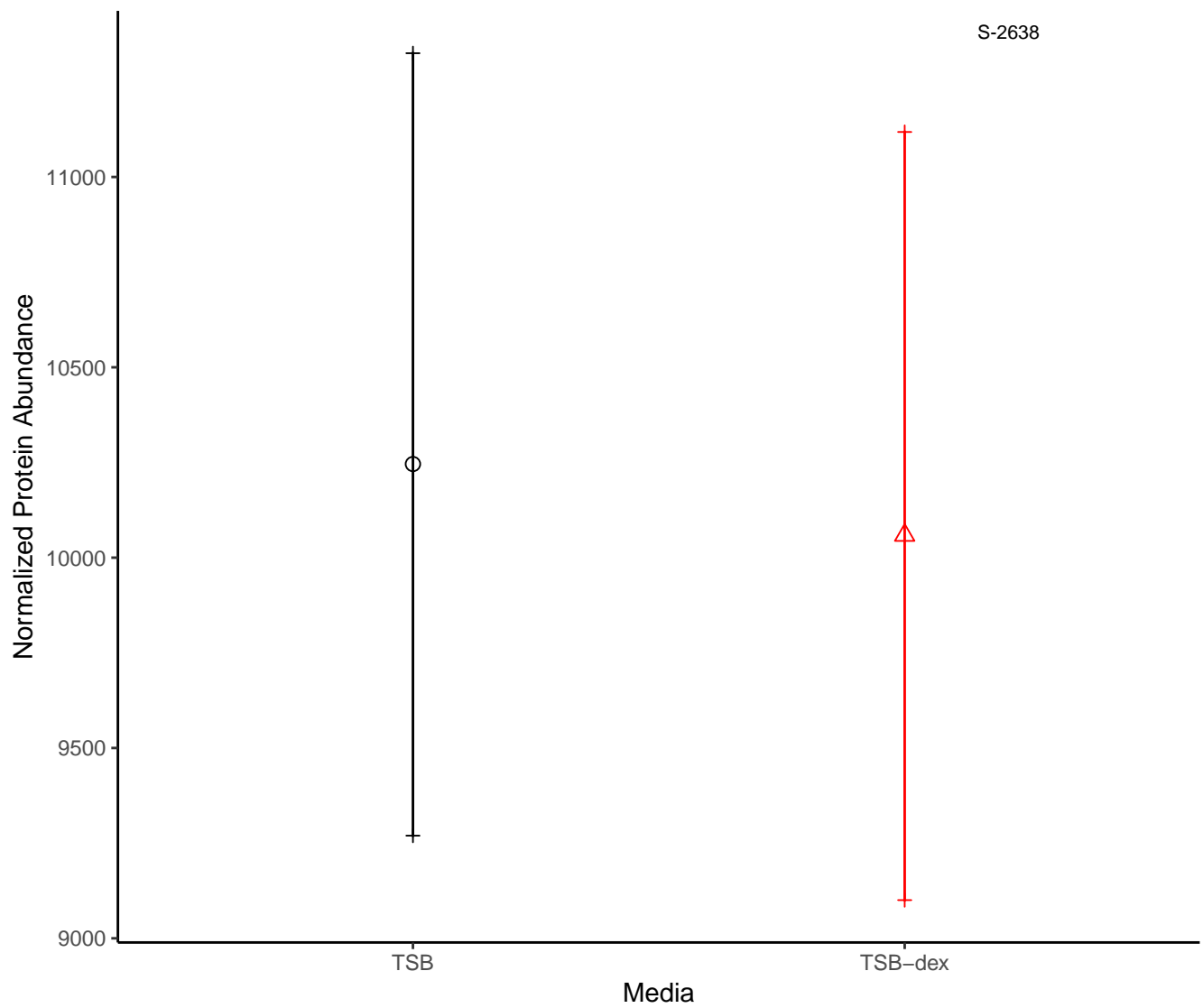


⊕ TSB-dex

△ TSB

# GATC\_STAAM

S-2638

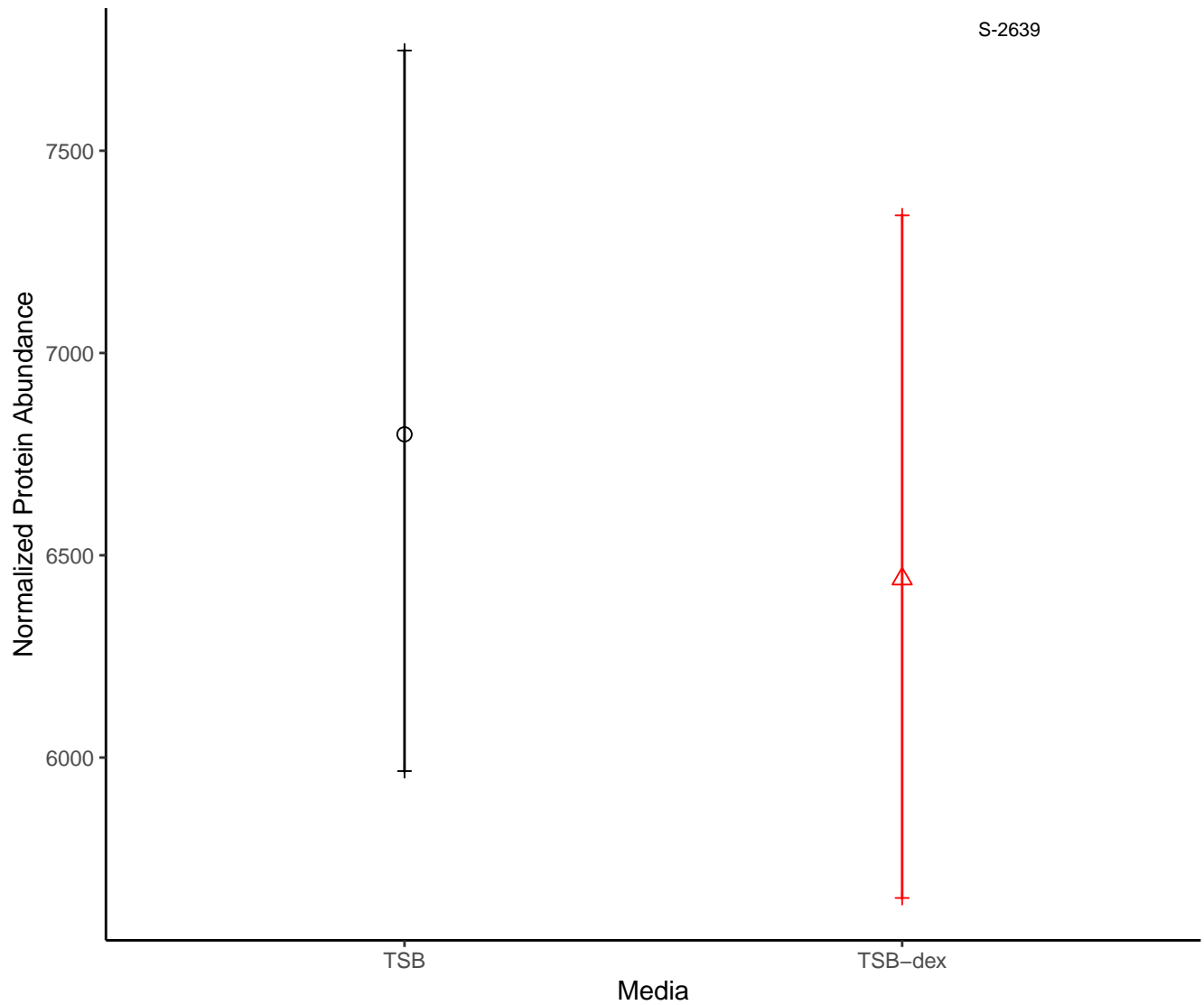


⊕ TSB-dex

△ TSB

# GCH4\_STAAM

S-2639

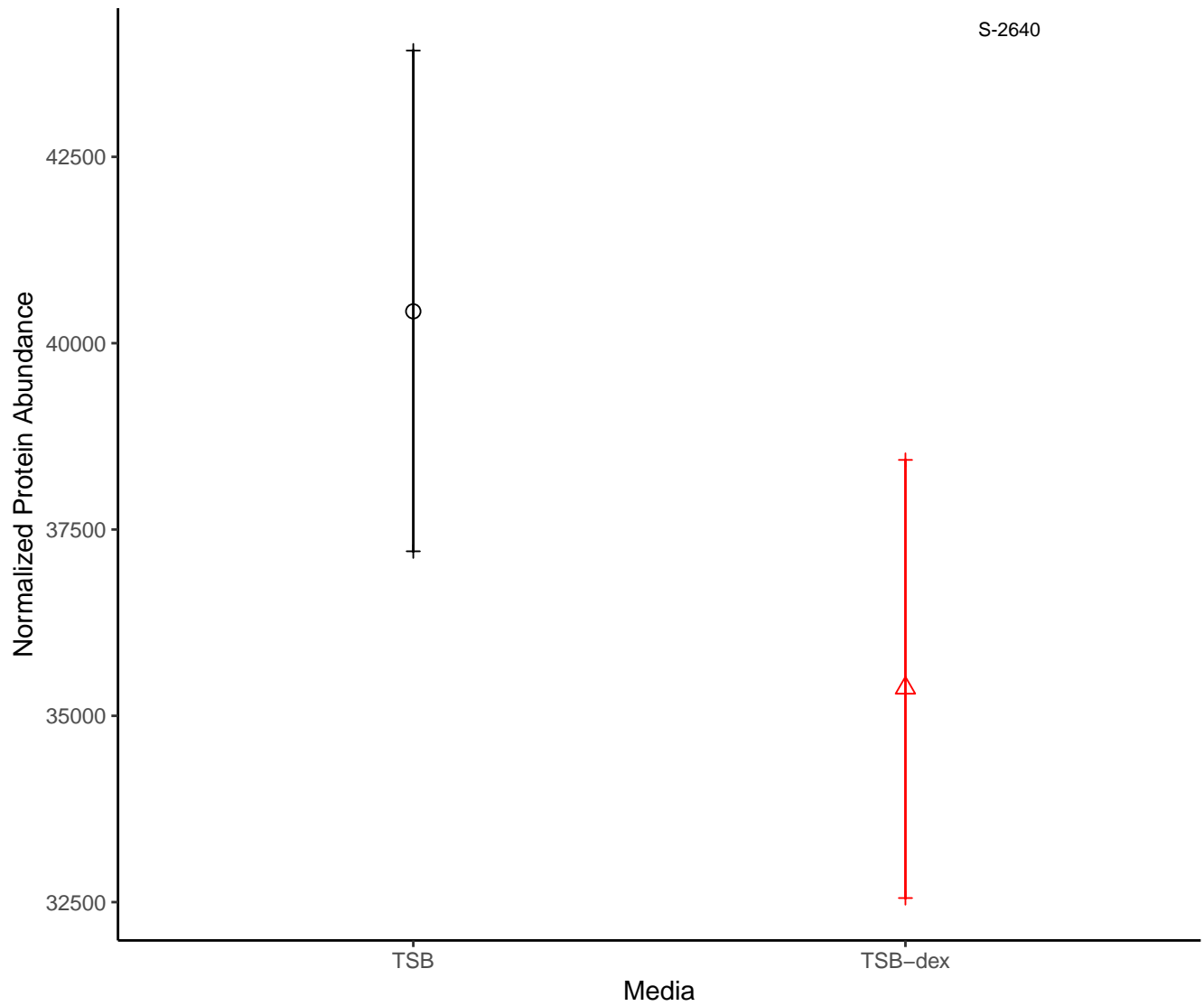


⊕ TSB-dex

△ TSB

# GCSH\_STAAM

S-2640



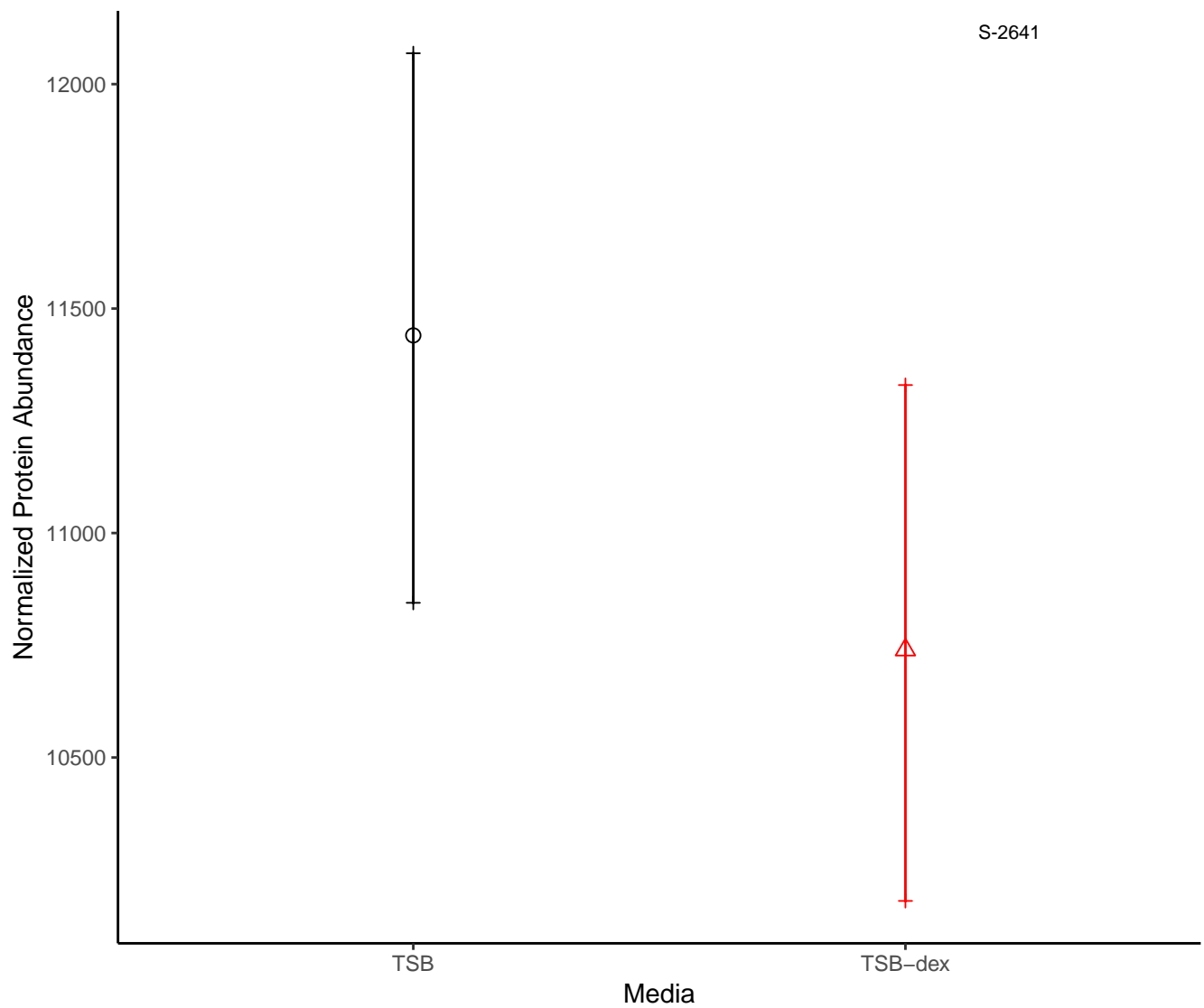
● TSB-dex

▲ TSB



# GCSPA\_STAAM

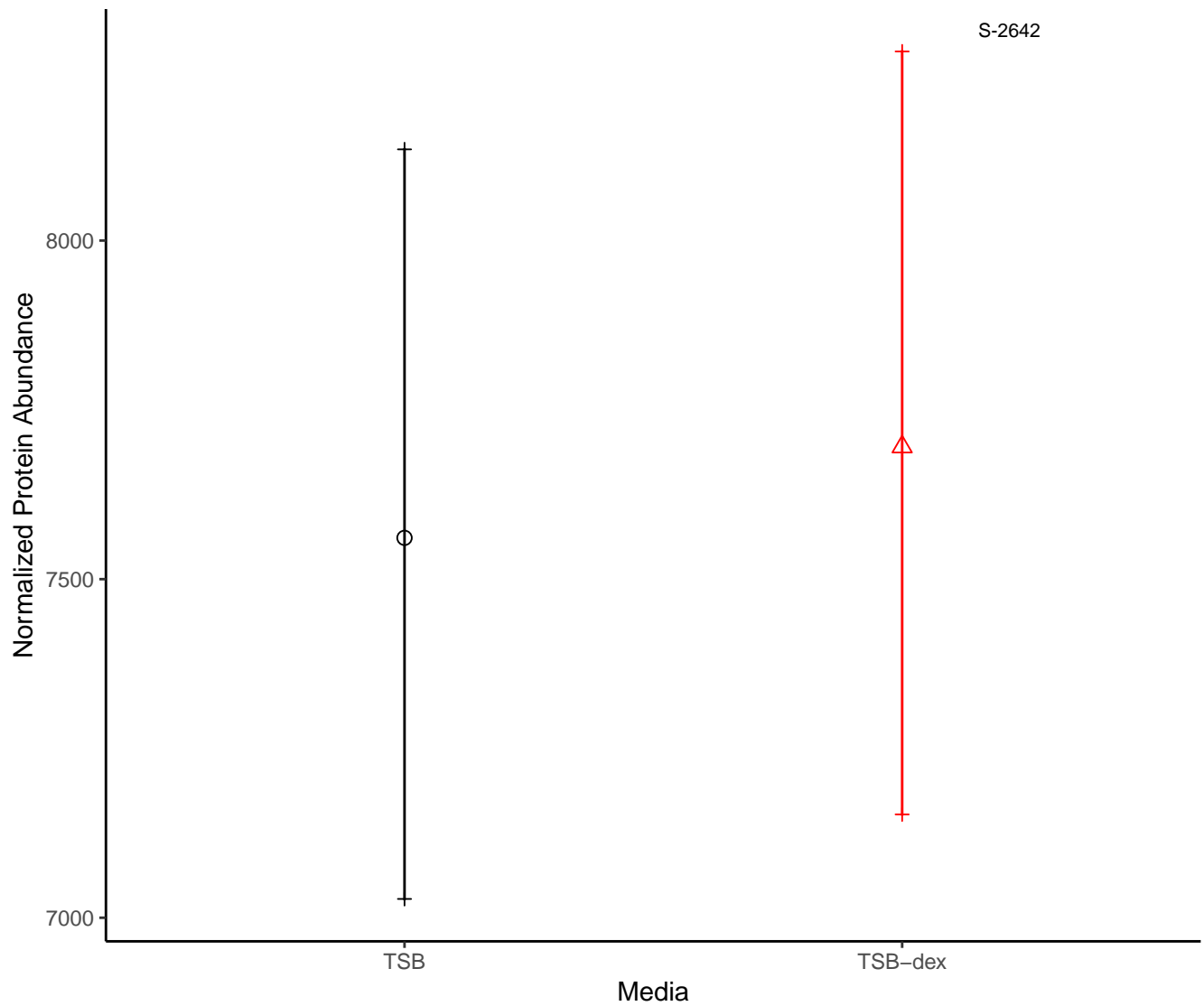
S-2641



⊕ TSB-dex

△ TSB

# GCSPB\_STAAM

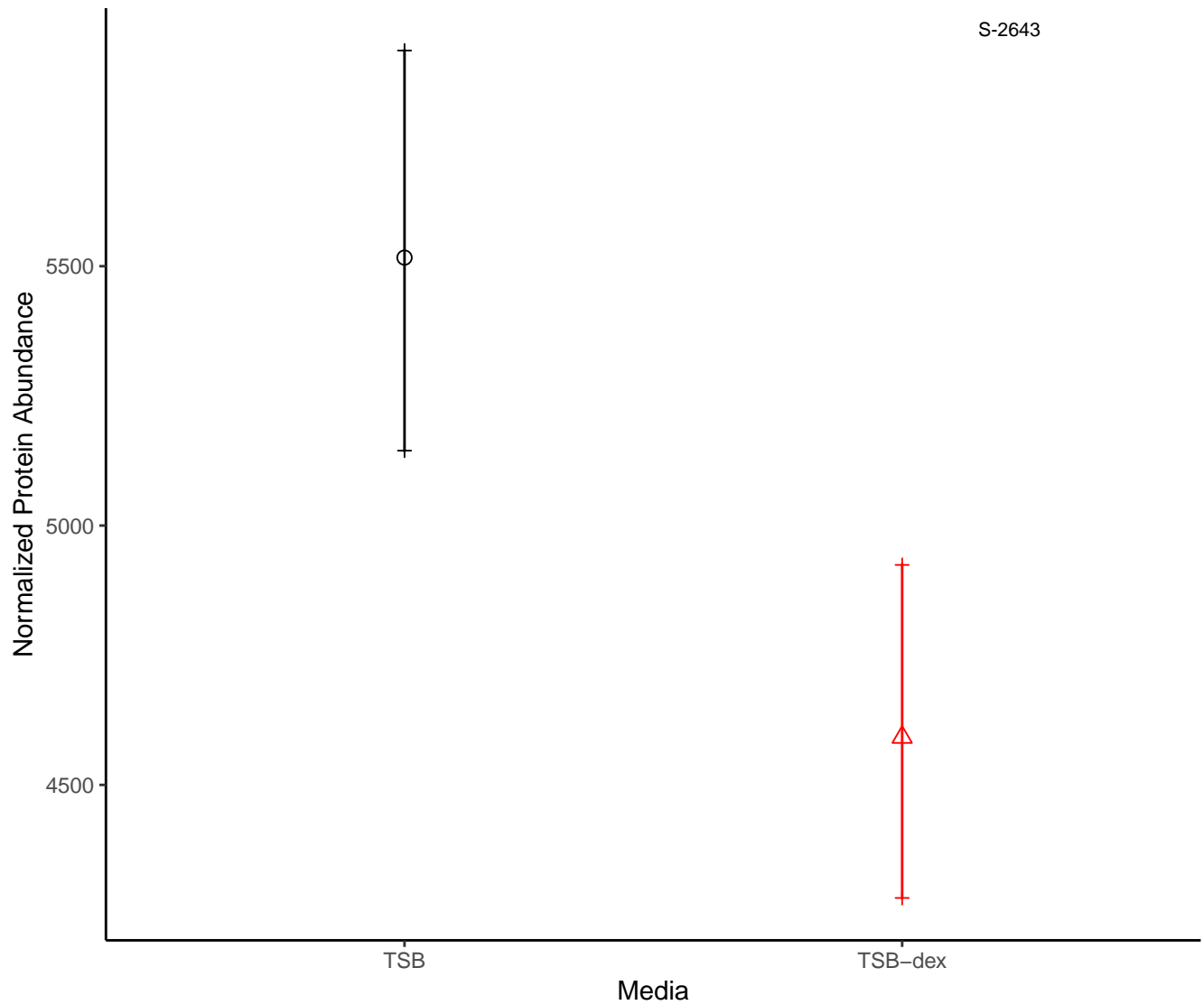


⊕ TSB-dex

△ TSB

# GCST\_STAAM

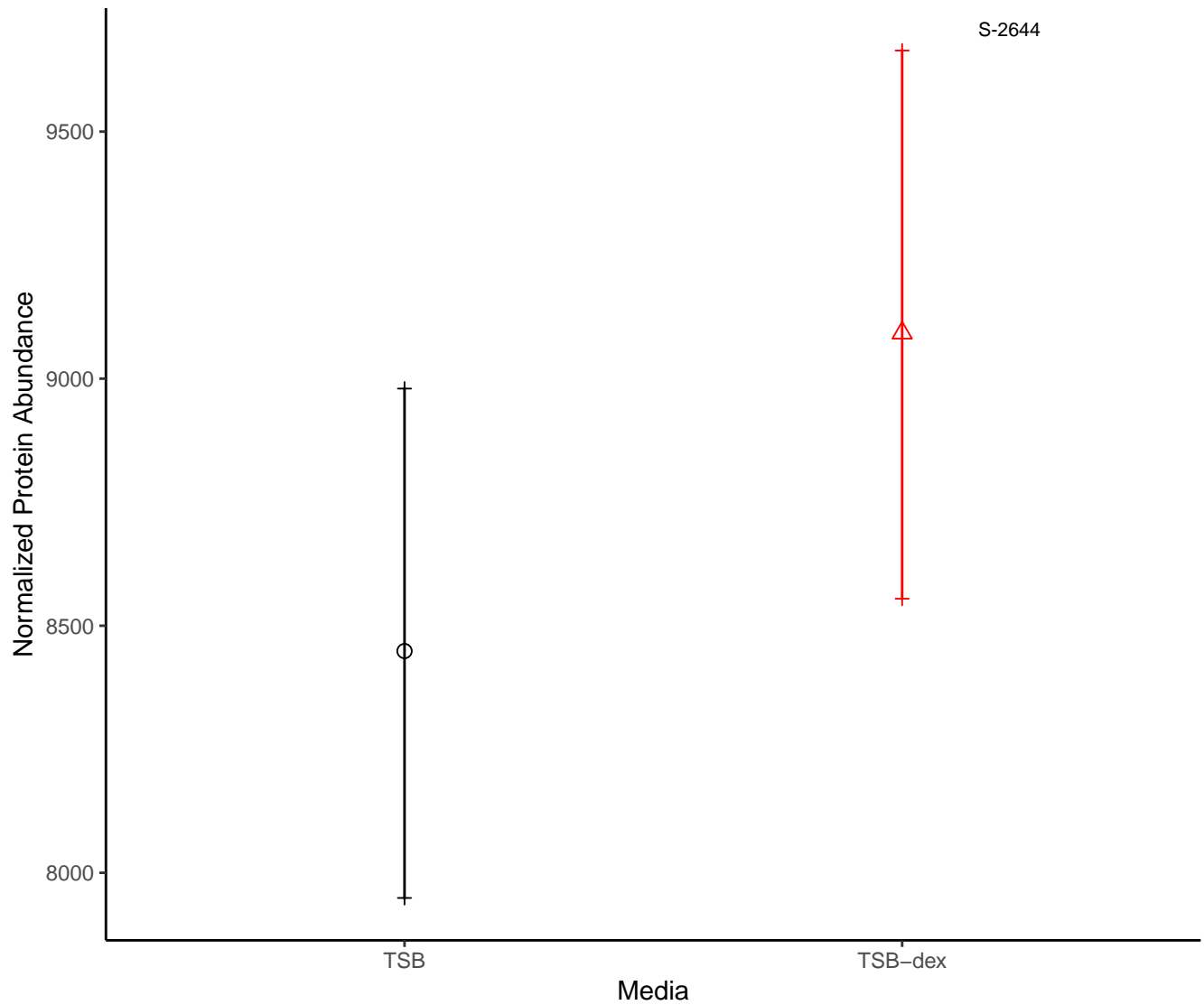
S-2643



⊕ TSB-dex

△ TSB

# GLMM\_STAAM

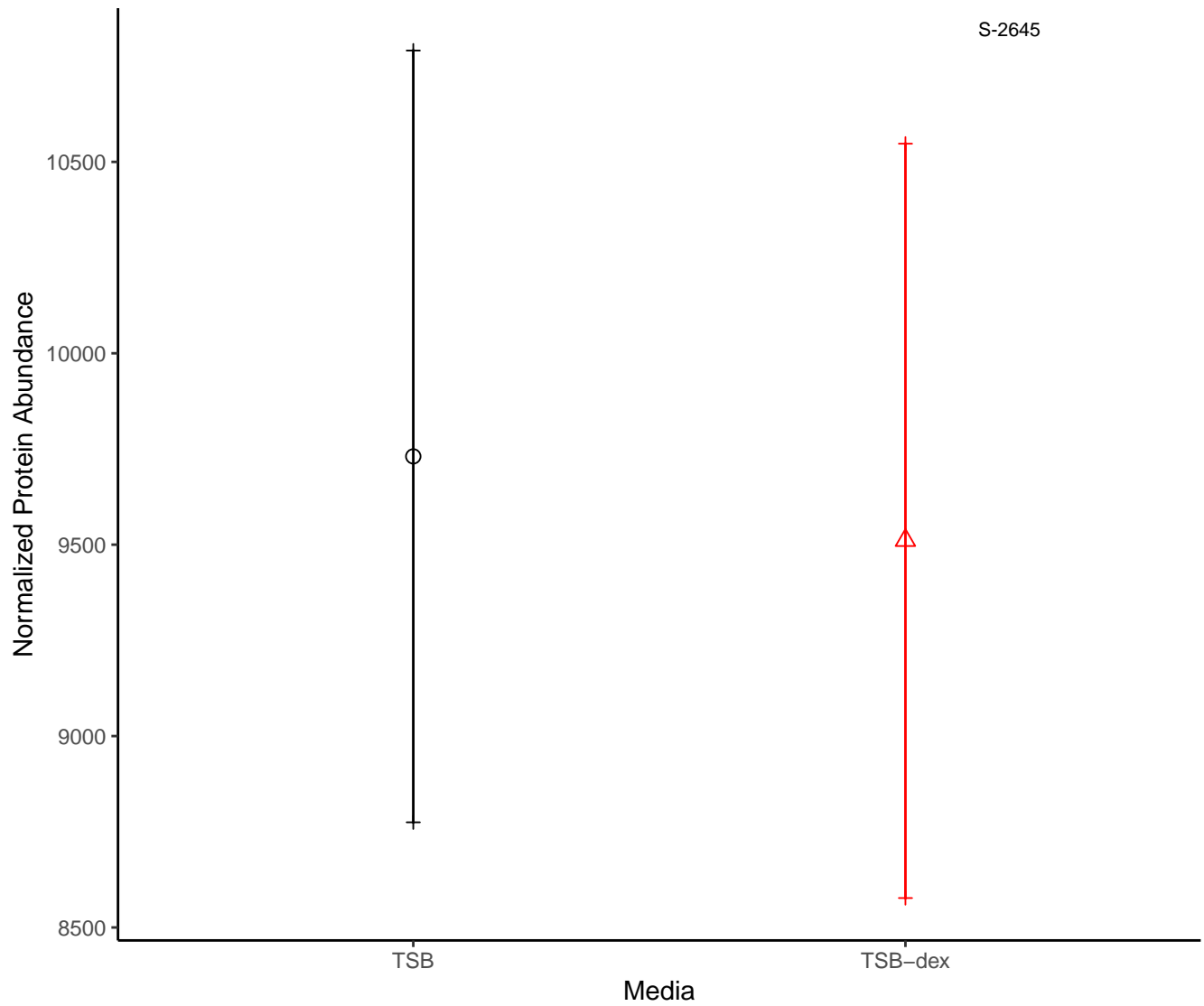


⊕ TSB-dex

△ TSB

# GLMS\_STAAM

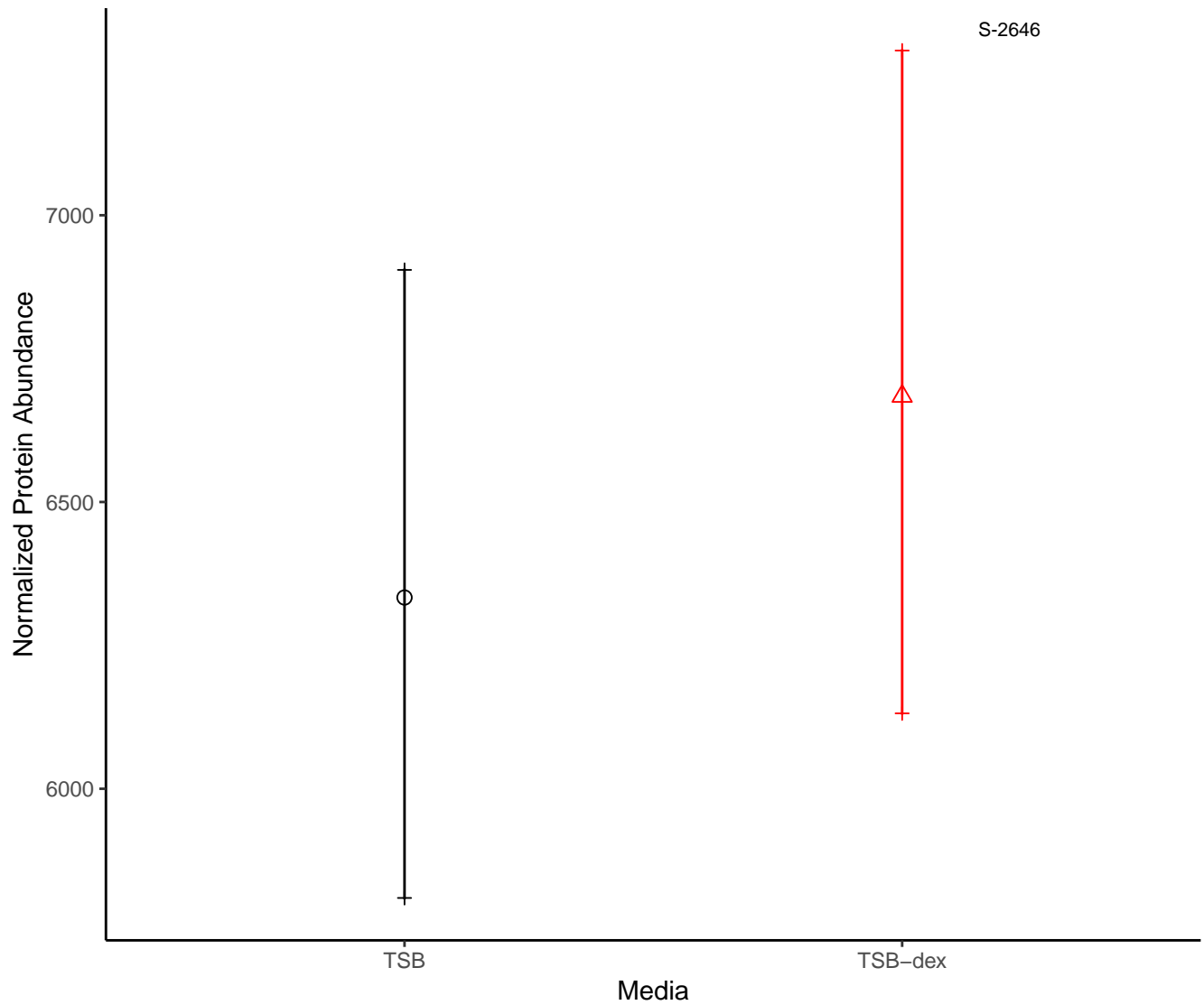
S-2645



⊕ TSB-dex

△ TSB

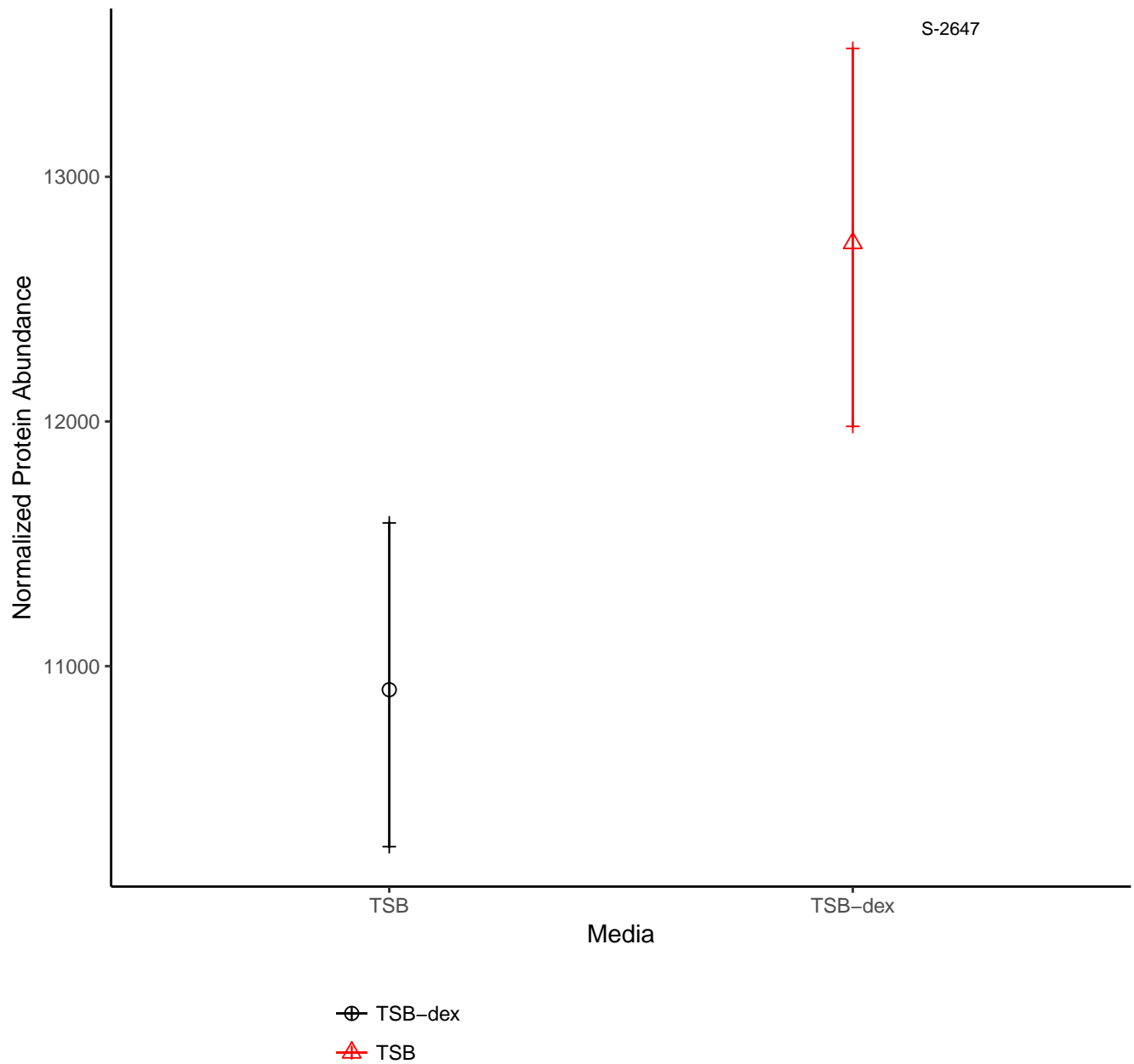
# GLMU\_STAAM



⊕ TSB-dex

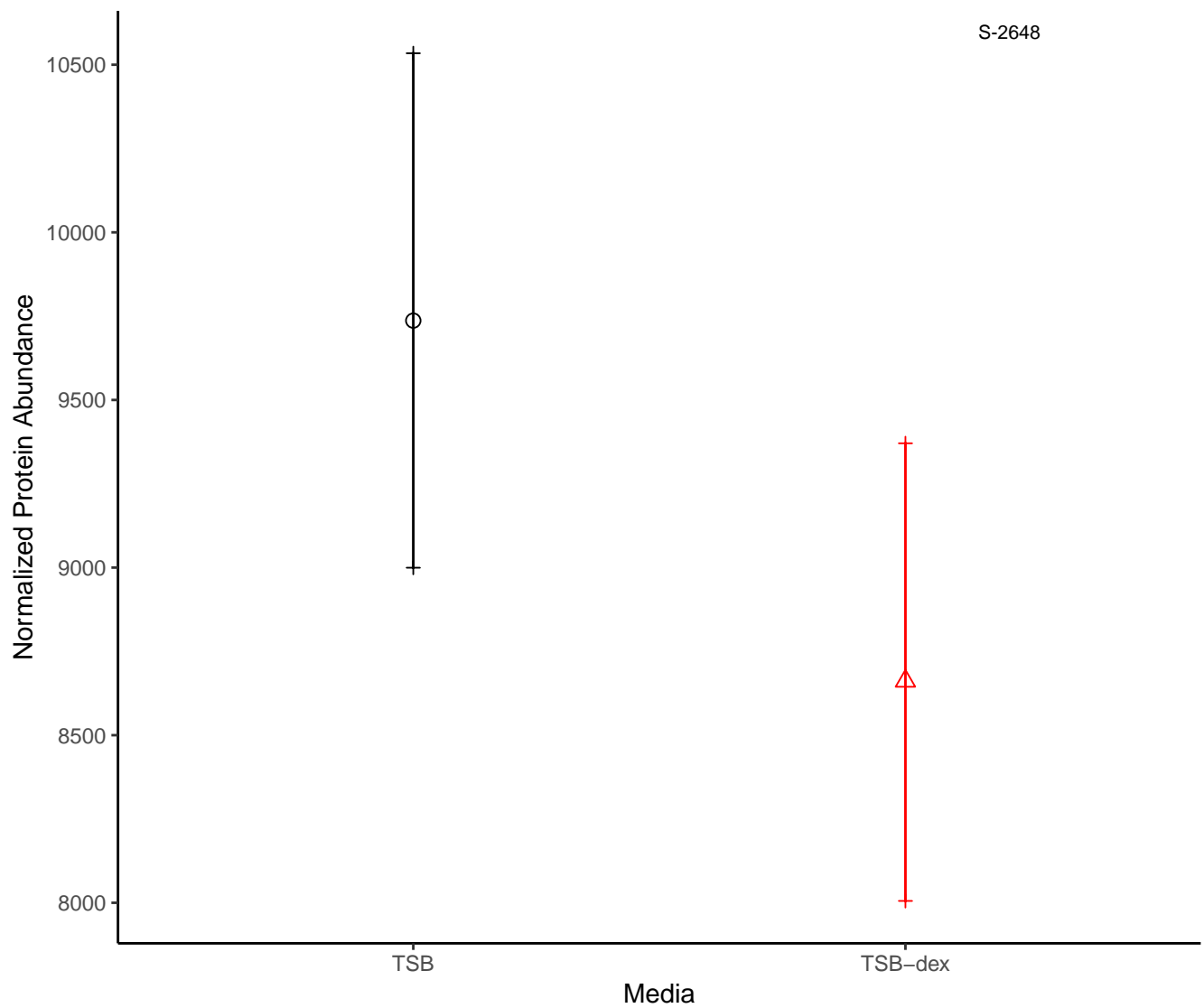
△ TSB

# GLNA\_STAAM



# GLPD\_STAAM

S-2648

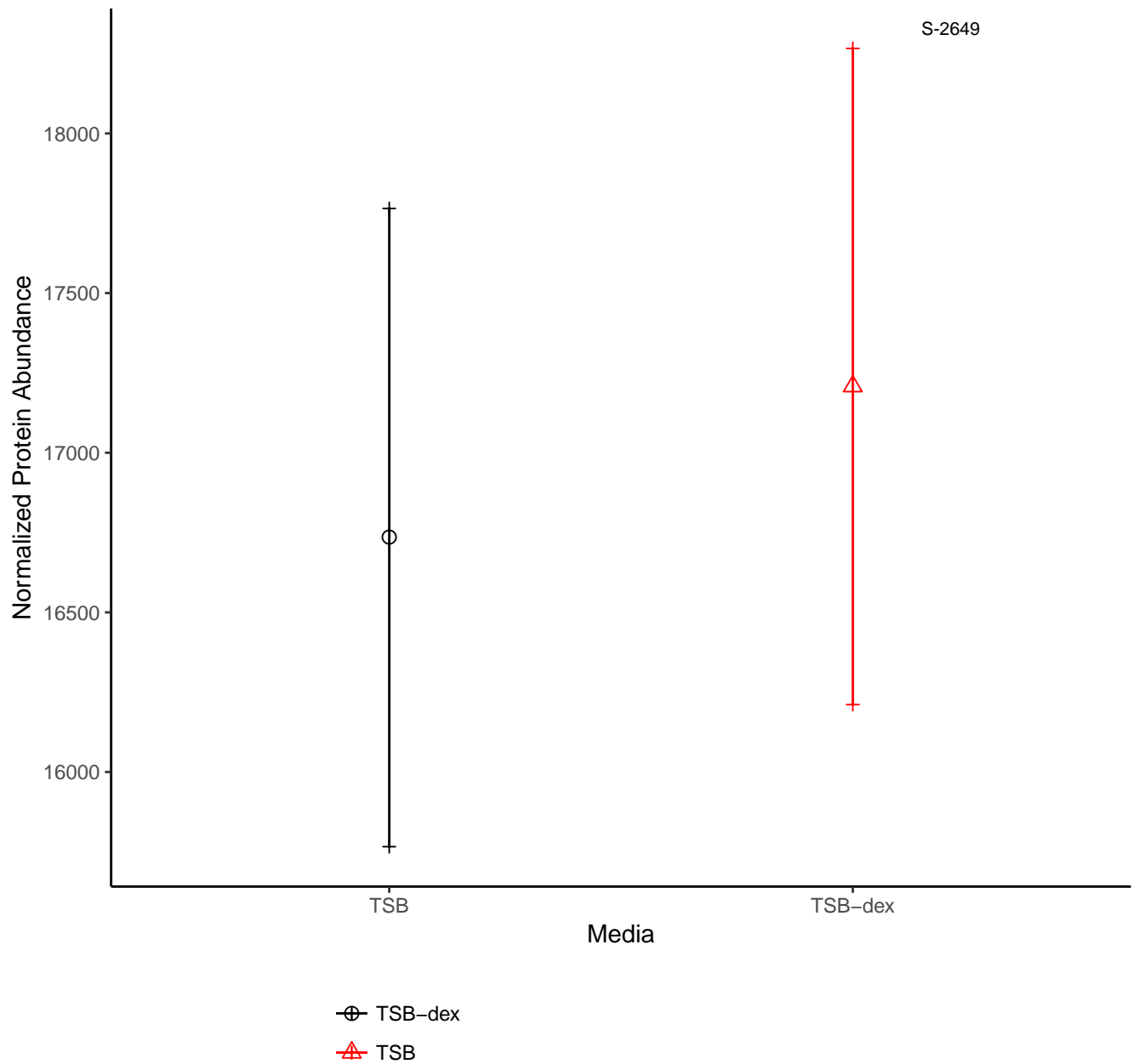


⊖ TSB-dex

△ TSB

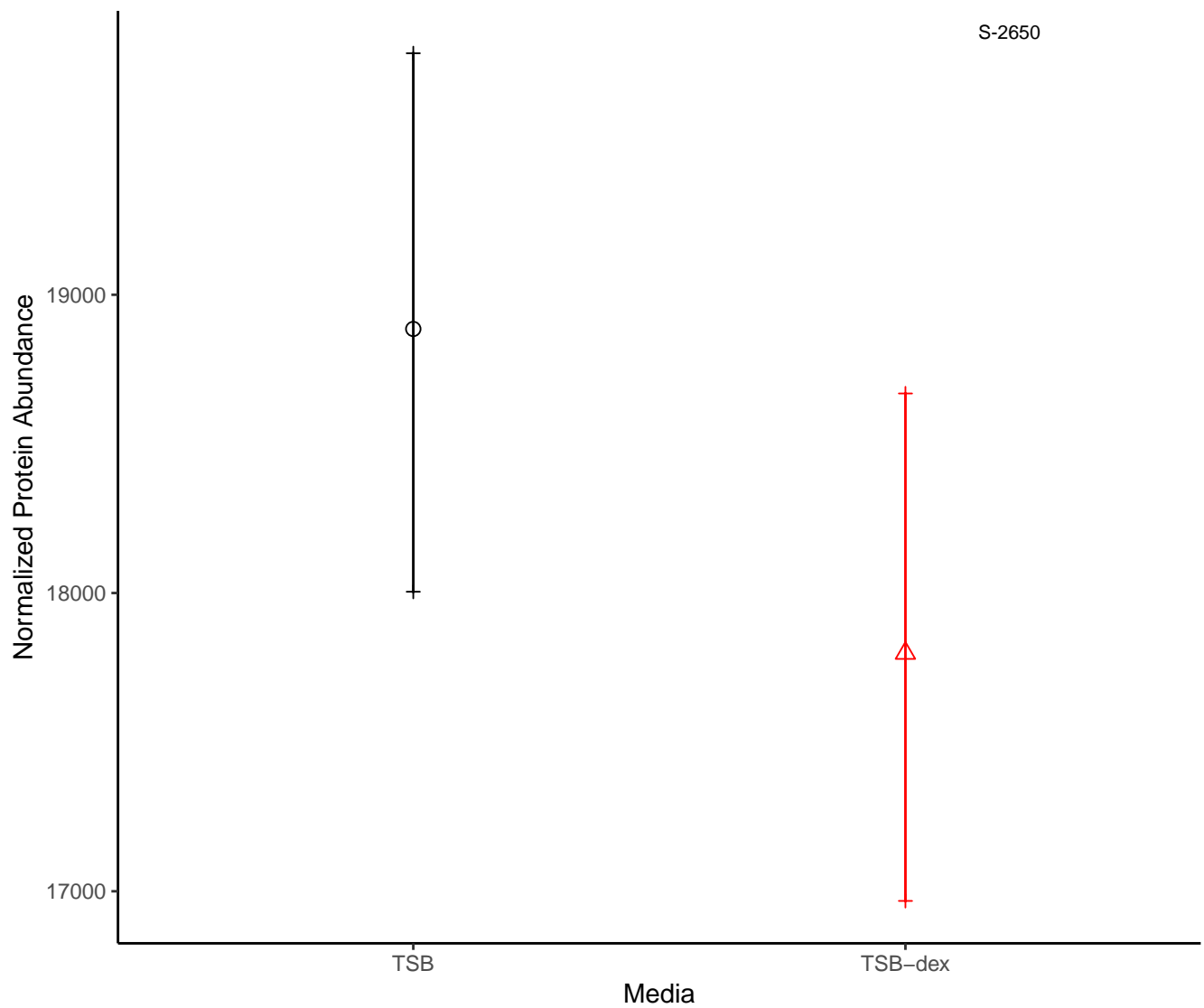


# GLPK\_STAAM



# GLYA\_STAAM

S-2650

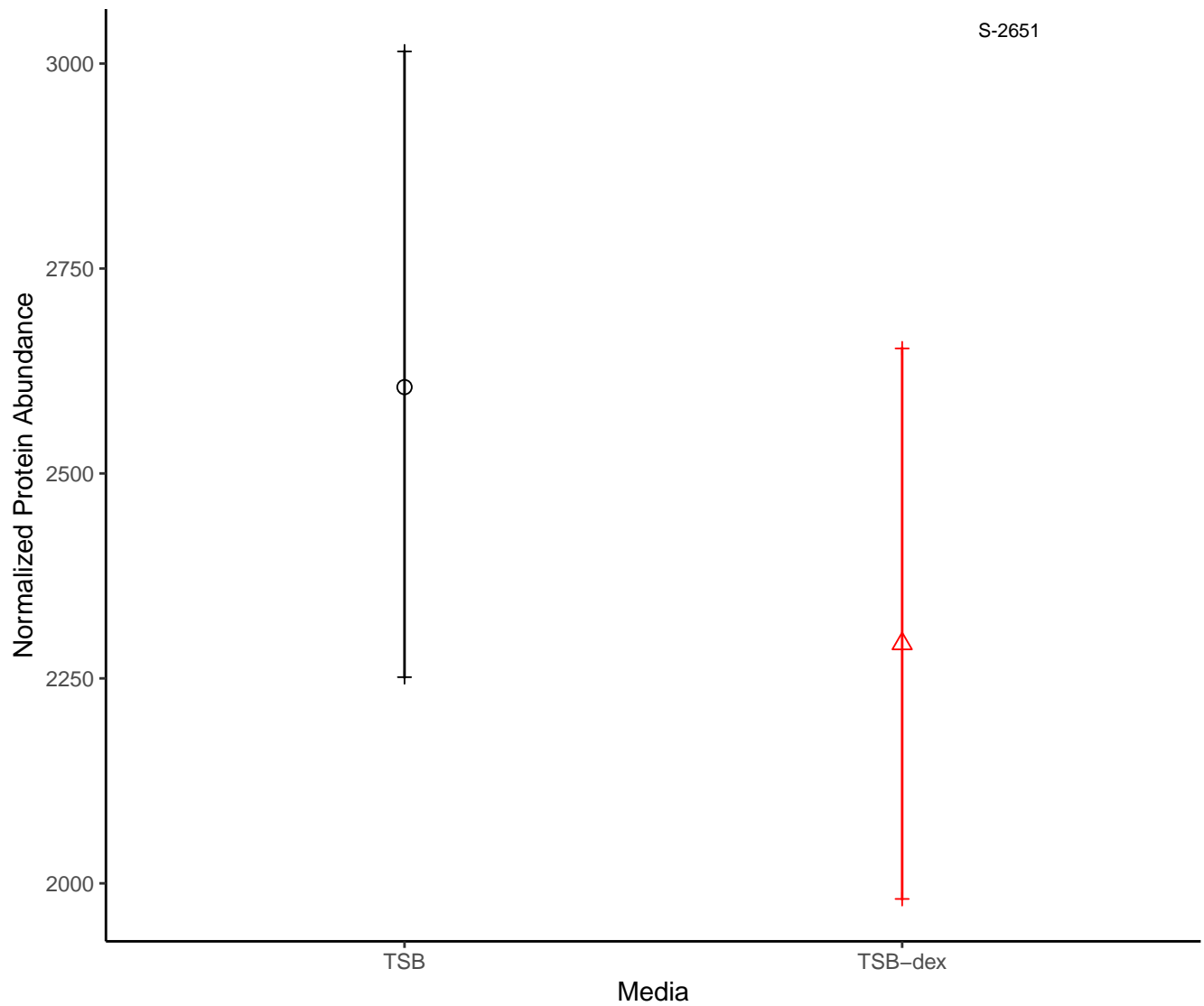


⊕ TSB-dex

△ TSB

# GPDA\_STAAM

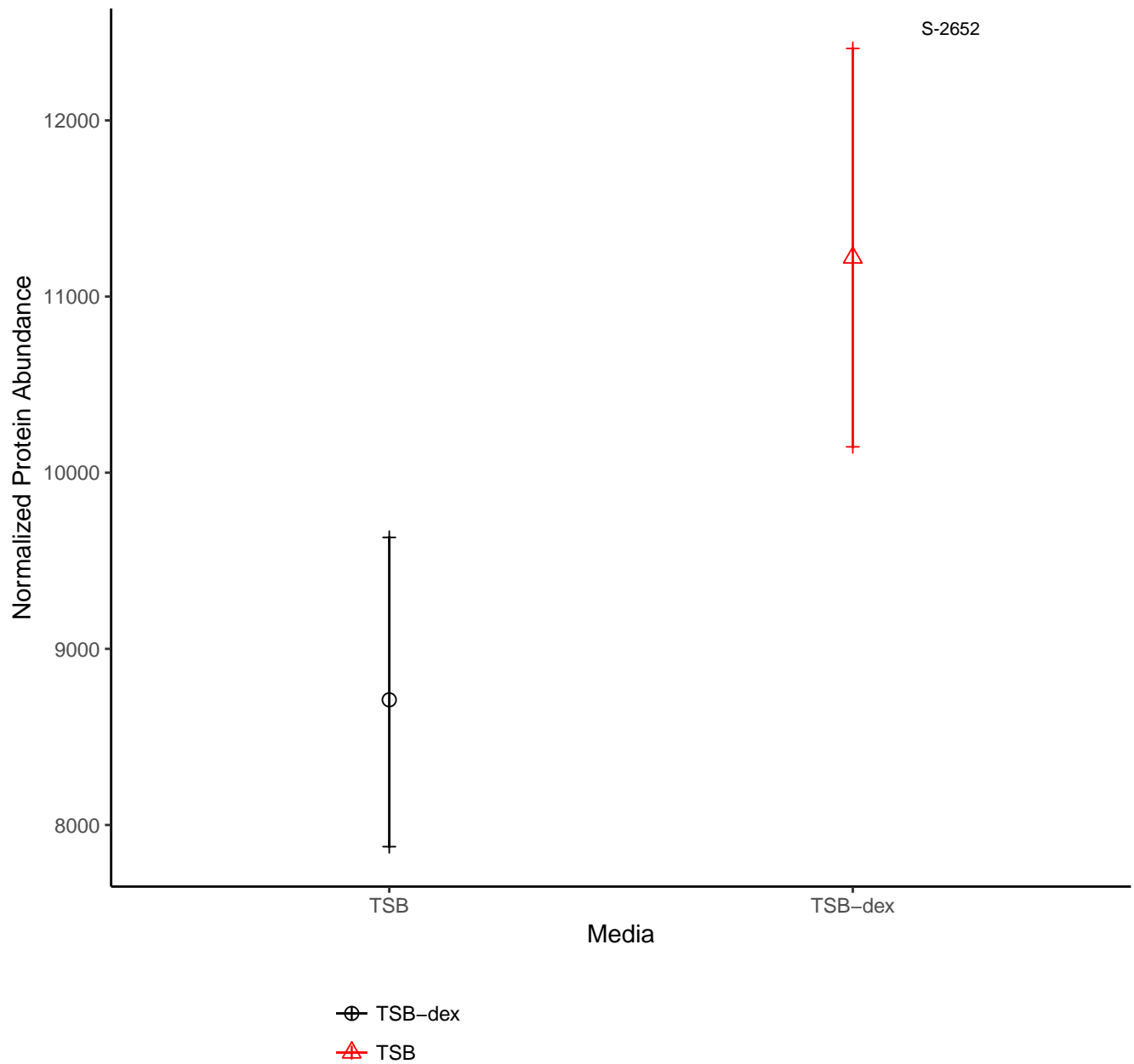
S-2651



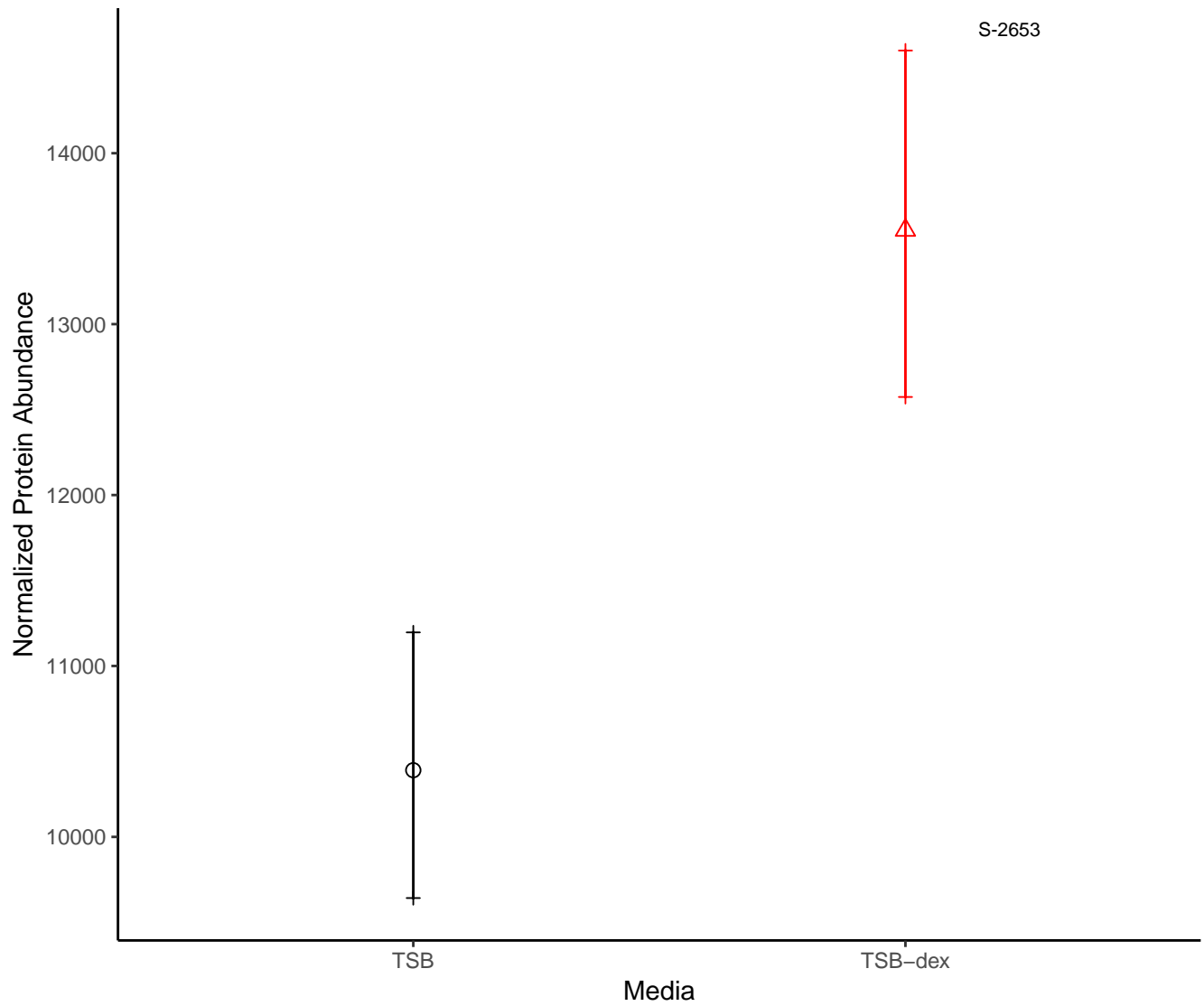
⊕ TSB-dex

△ TSB

# GPMA\_STAAM



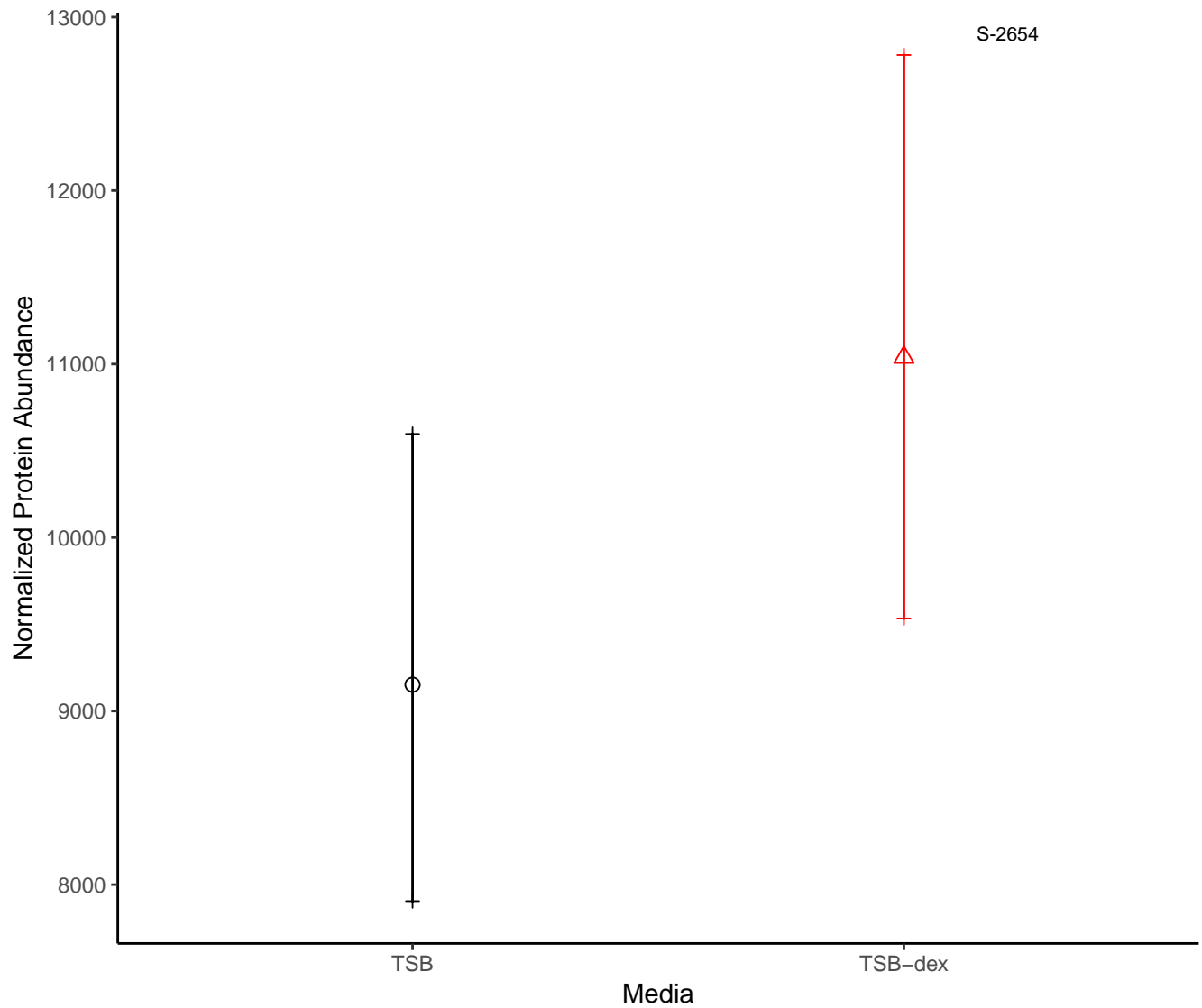
# GPMI\_STAAM



⊕ TSB-dex

△ TSB

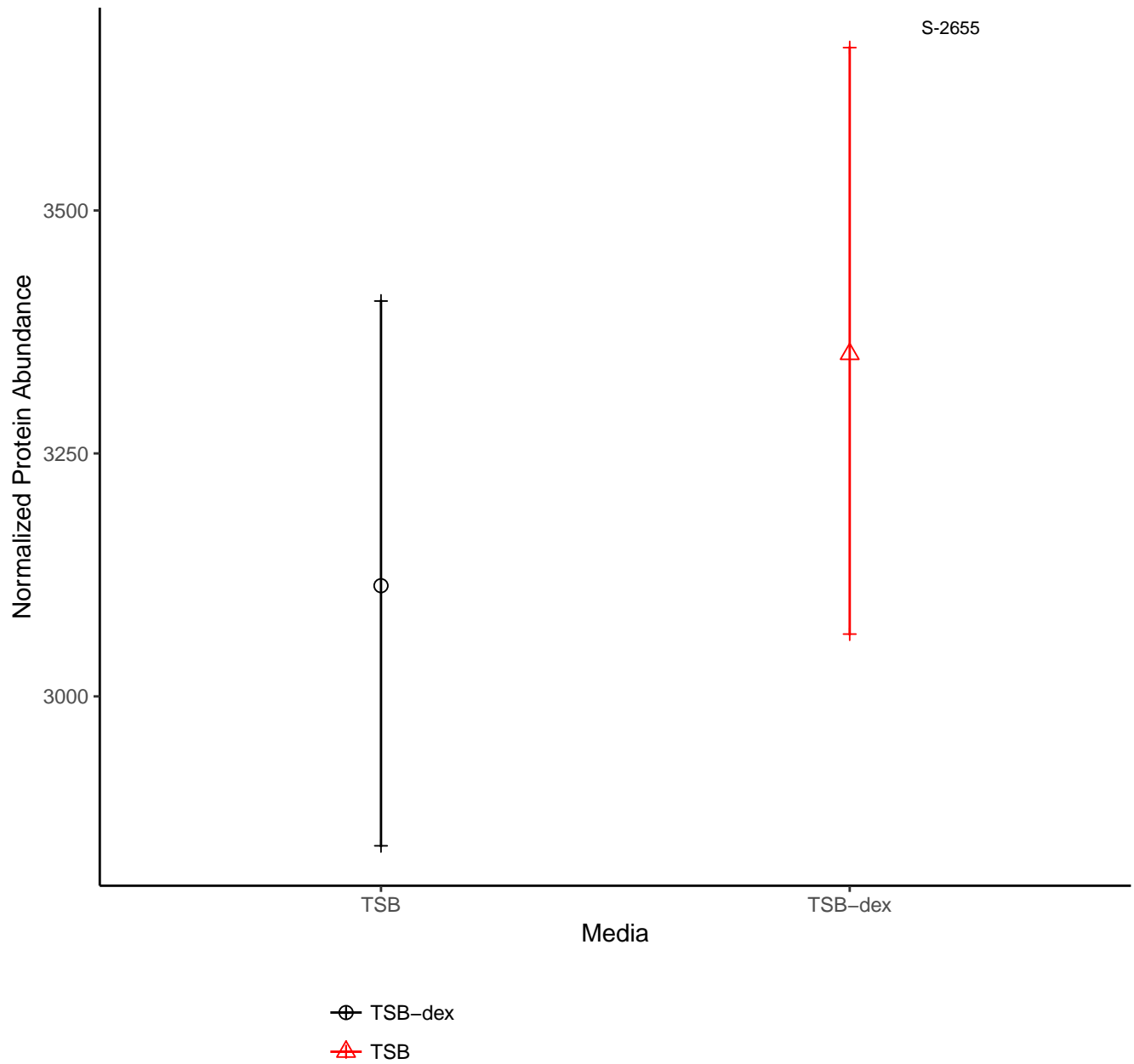
# GPSB\_STAAM



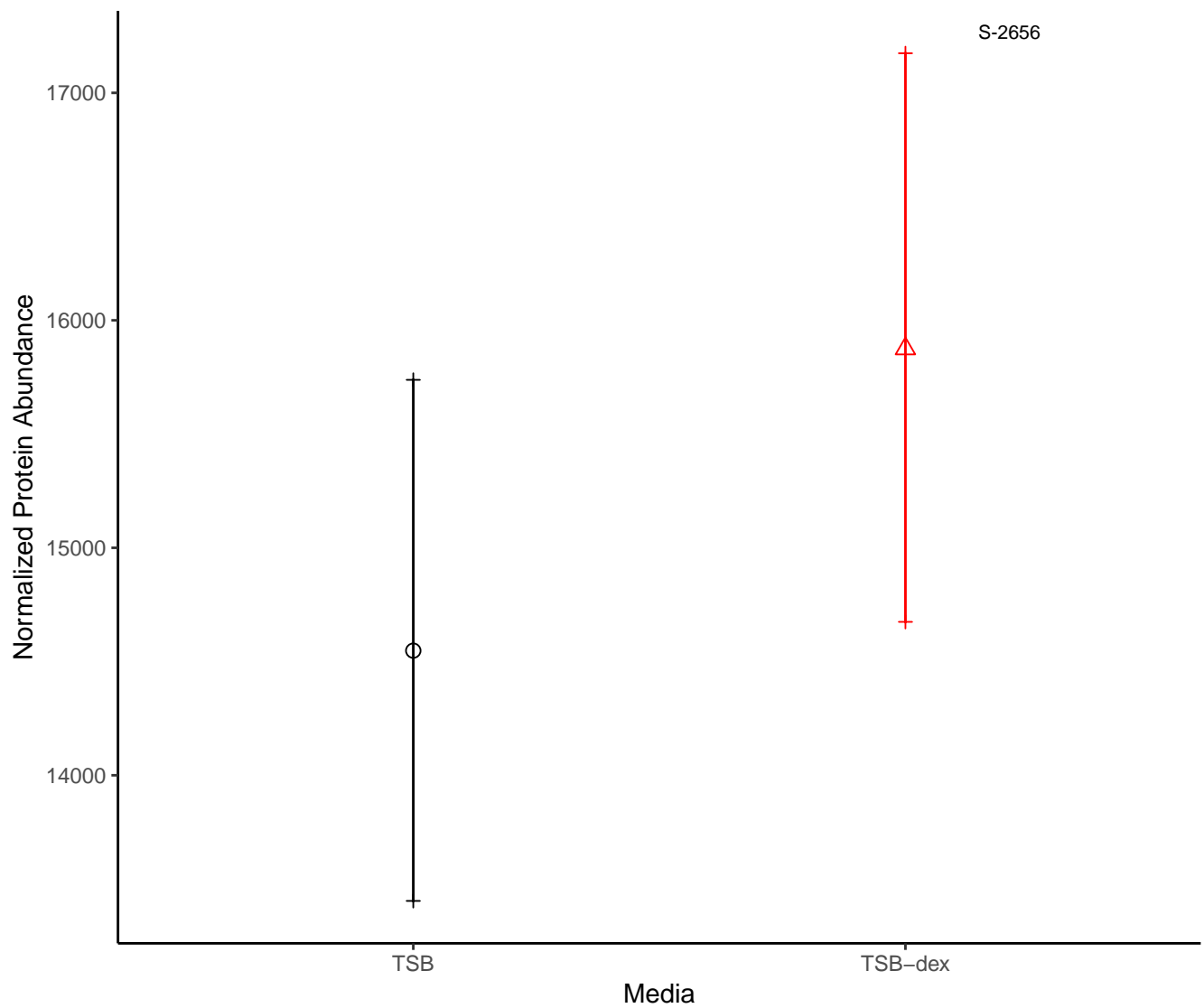
⊕ TSB-dex

△ TSB

# GRAR\_STAAM



# GRE\_A\_STAAM

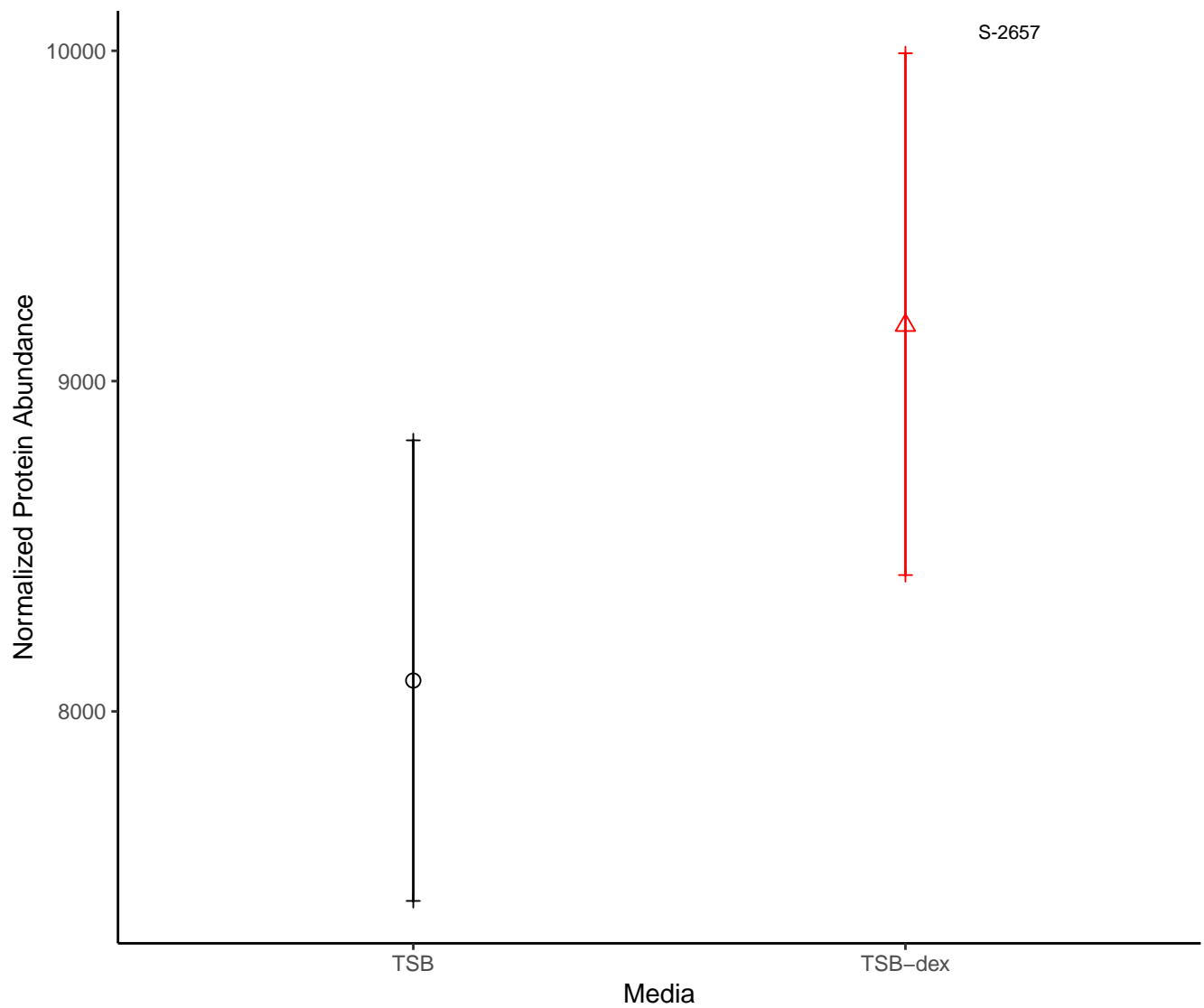


⊕ TSB-dex

△ TSB



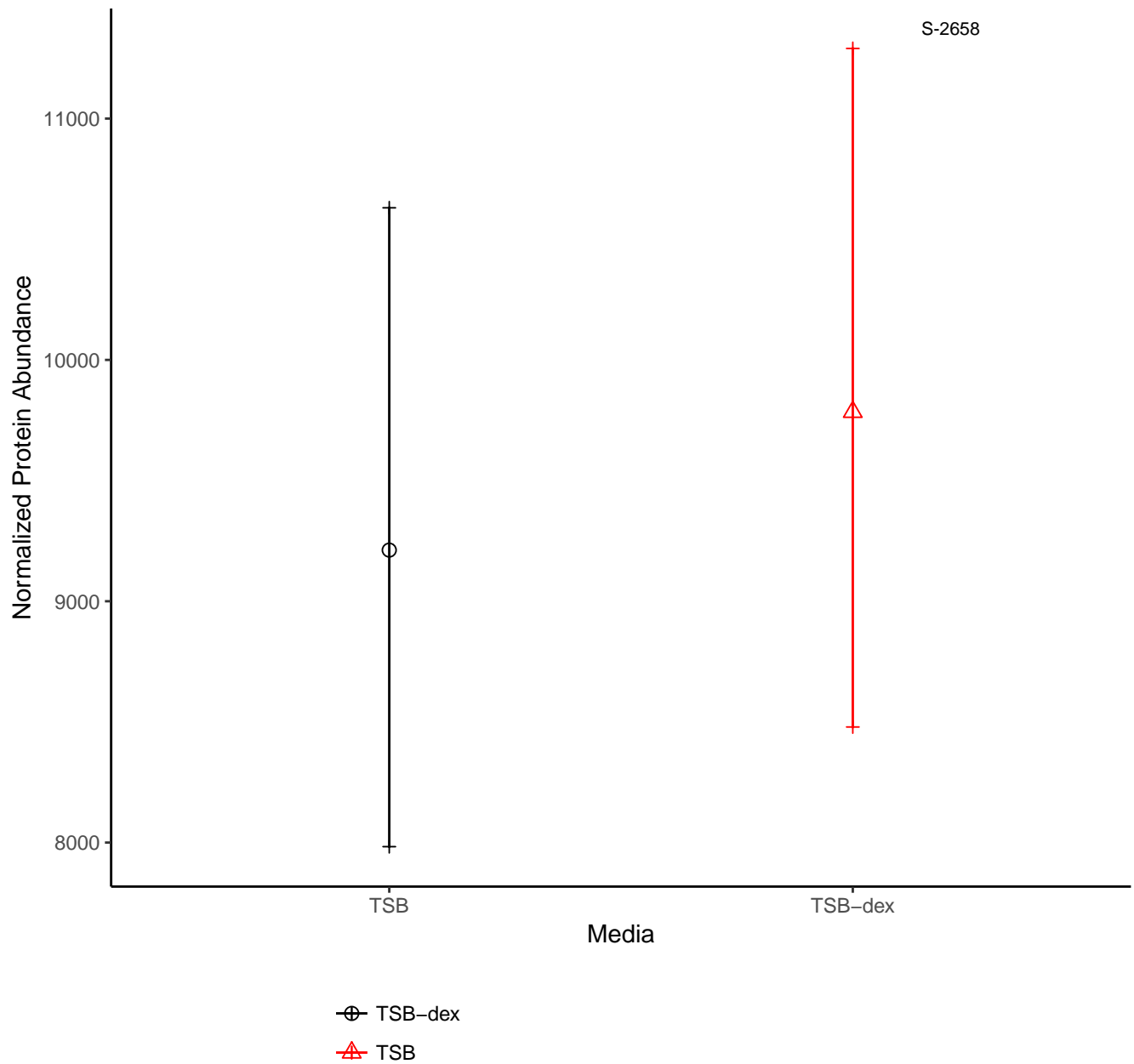
# GRPE\_STAAM



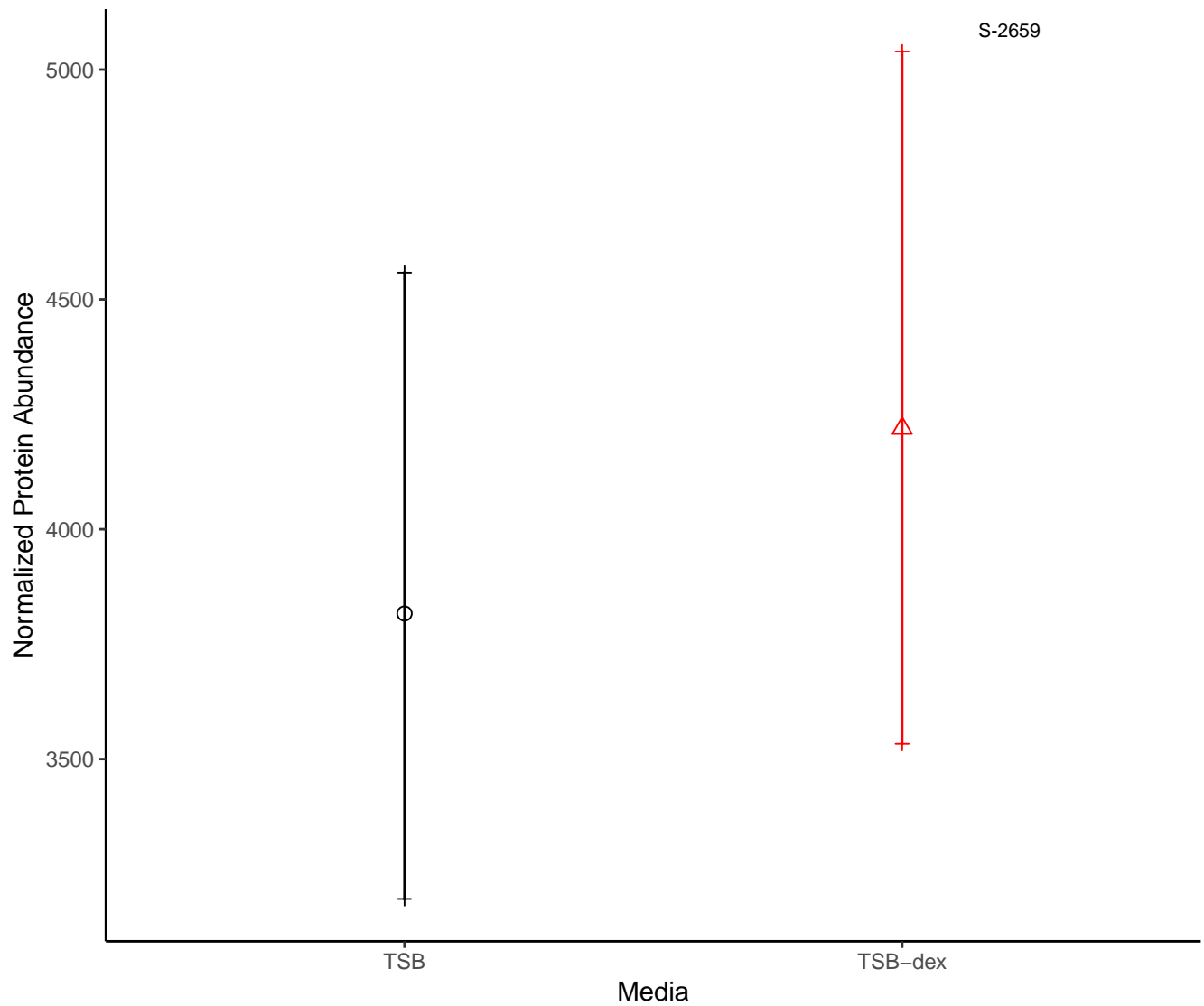
⊕ TSB-dex

△ TSB

# GSA1\_STAAM



# GSA2\_STAAM

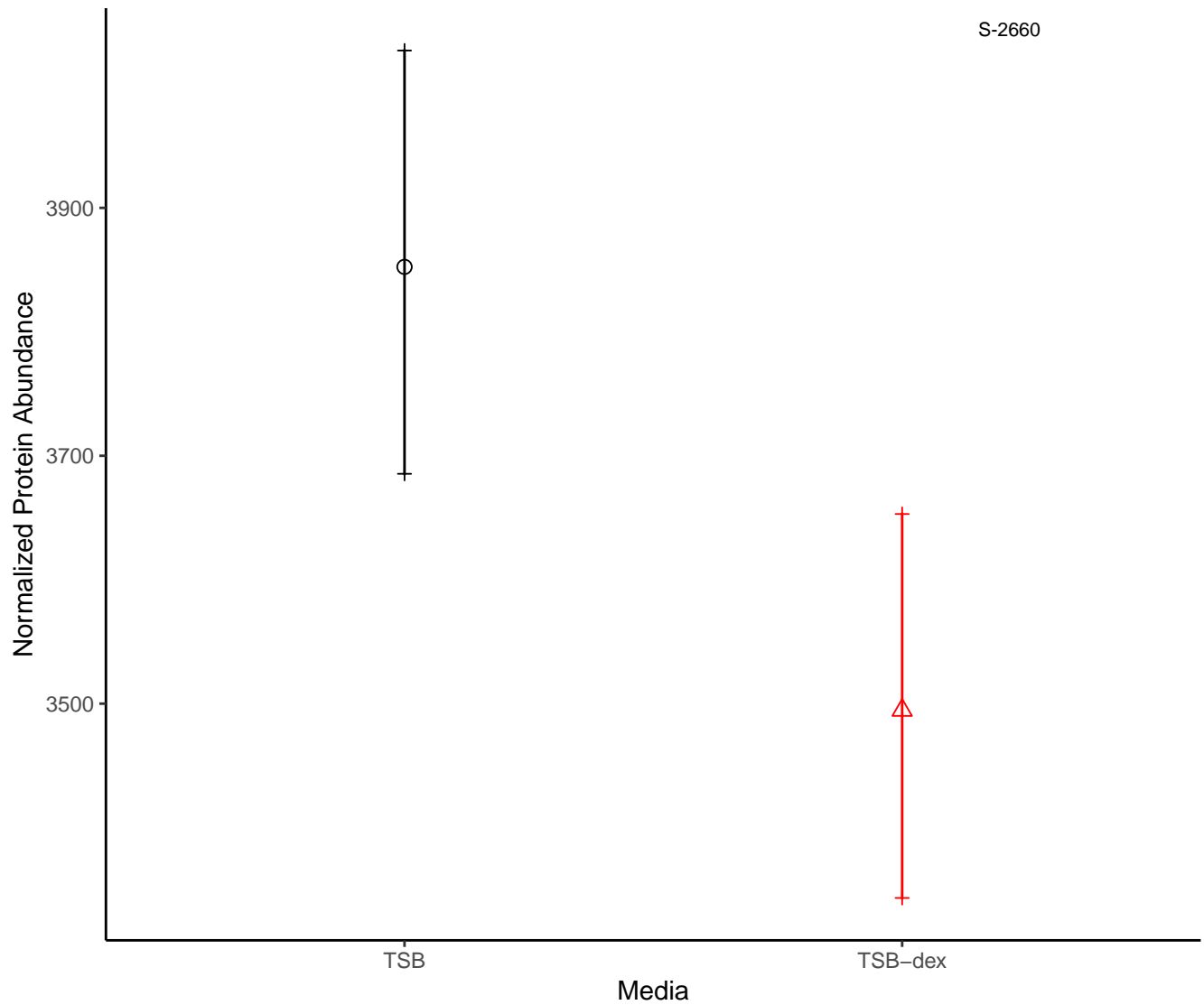


⊕ TSB-dex

△ TSB

# GTAB\_STAAM

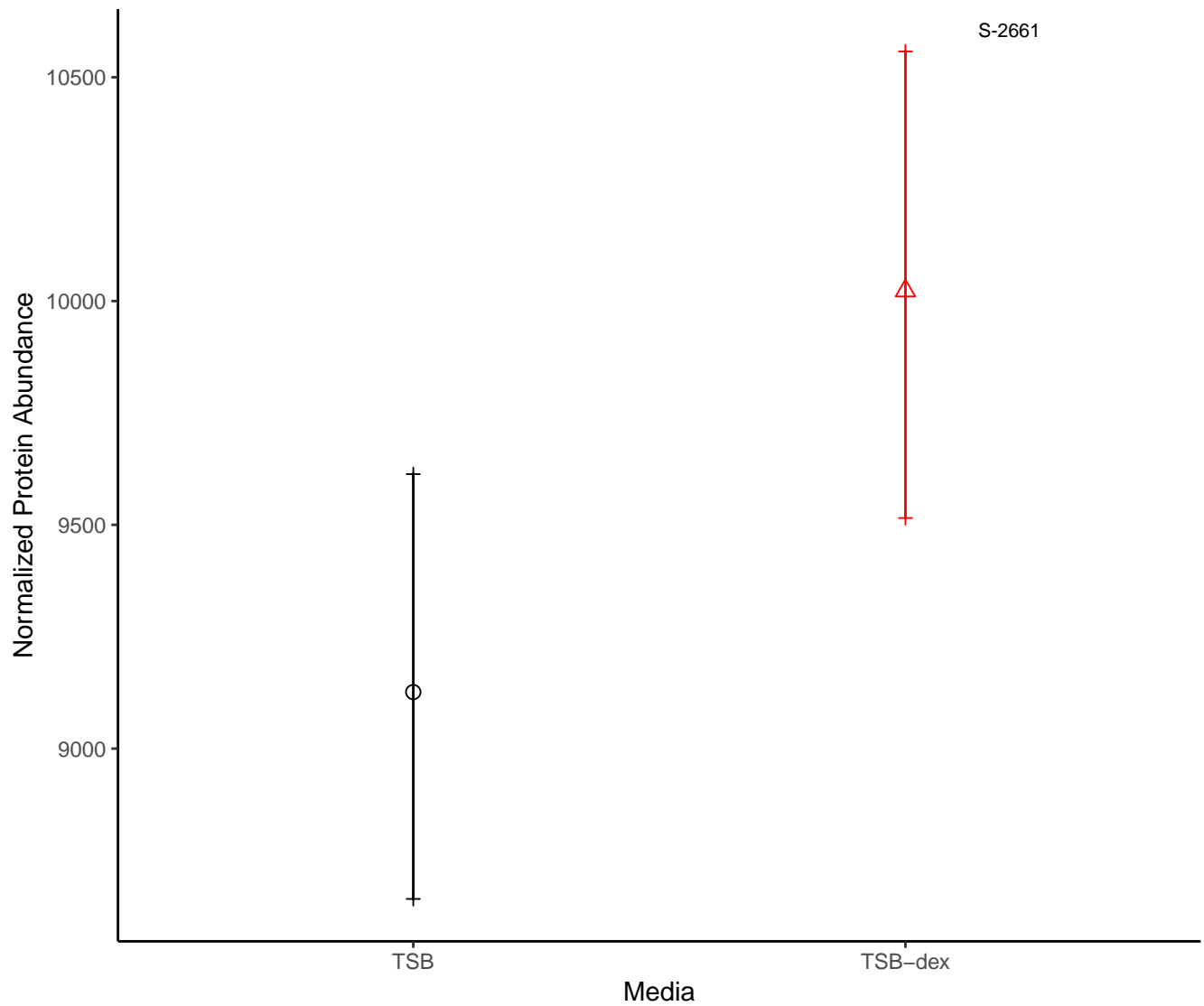
S-2660



⊕ TSB-dex

△ TSB

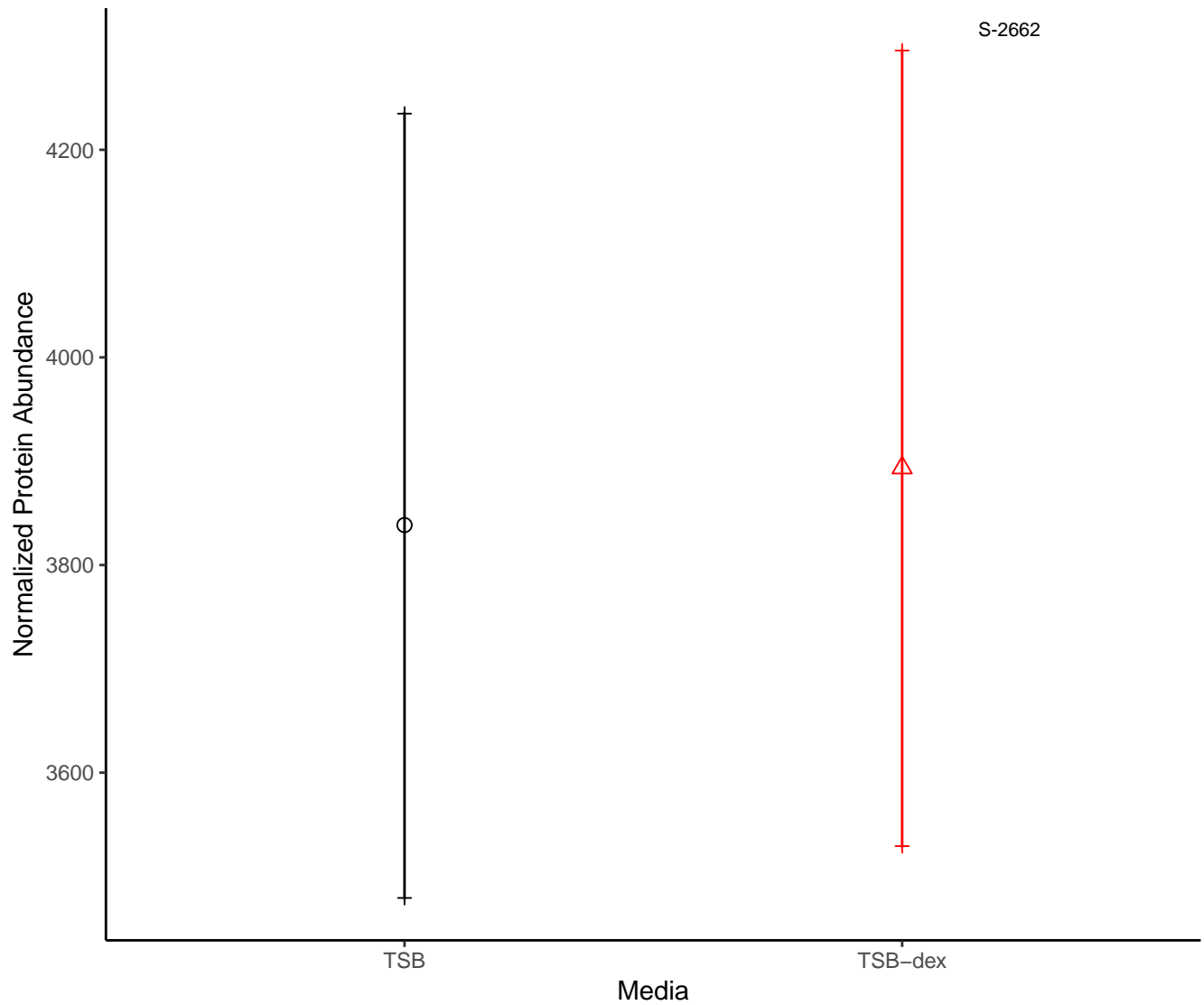
# GUAA\_STAAM



⊕ TSB-dex

△ TSB

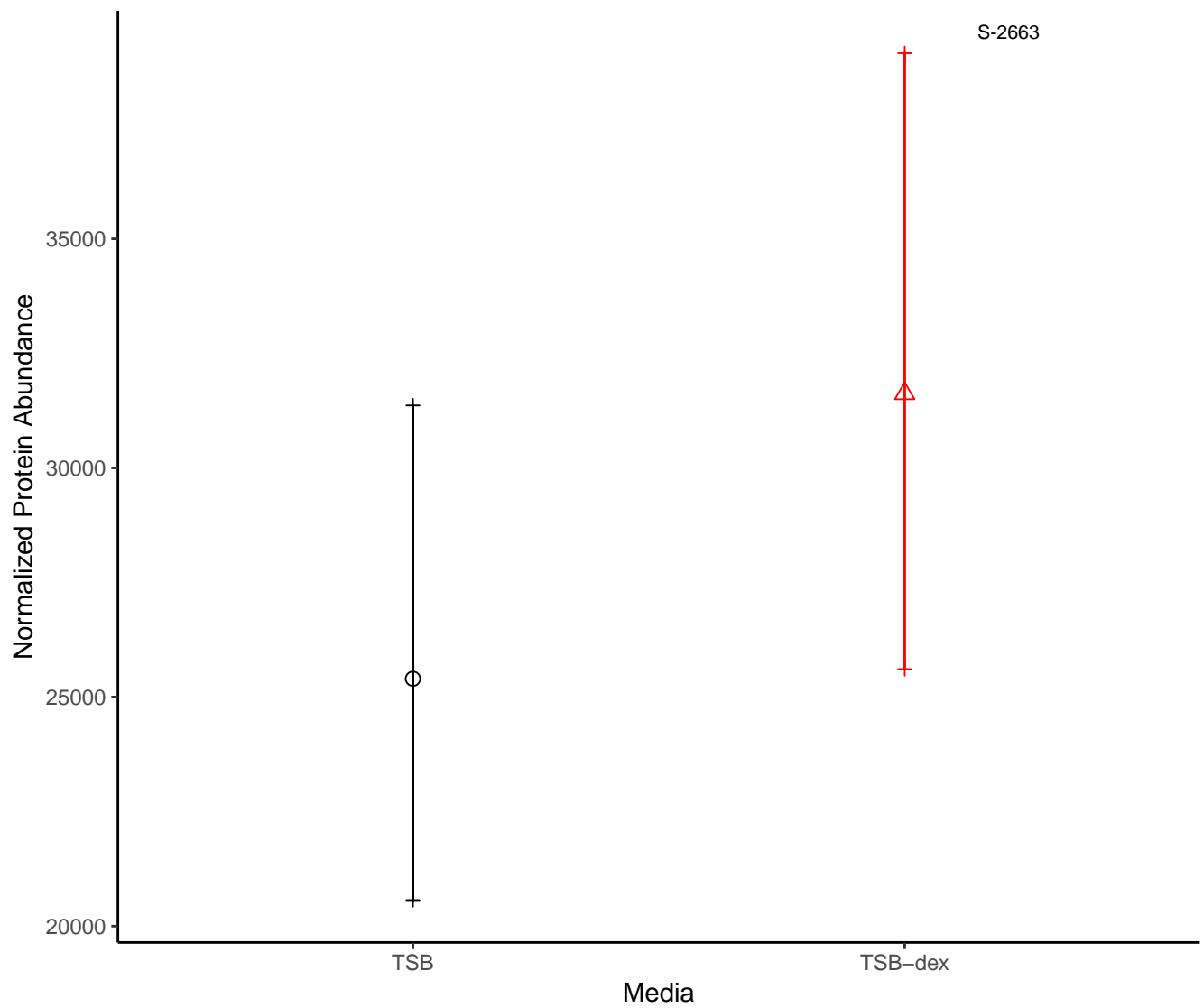
# GUAC\_STAAM



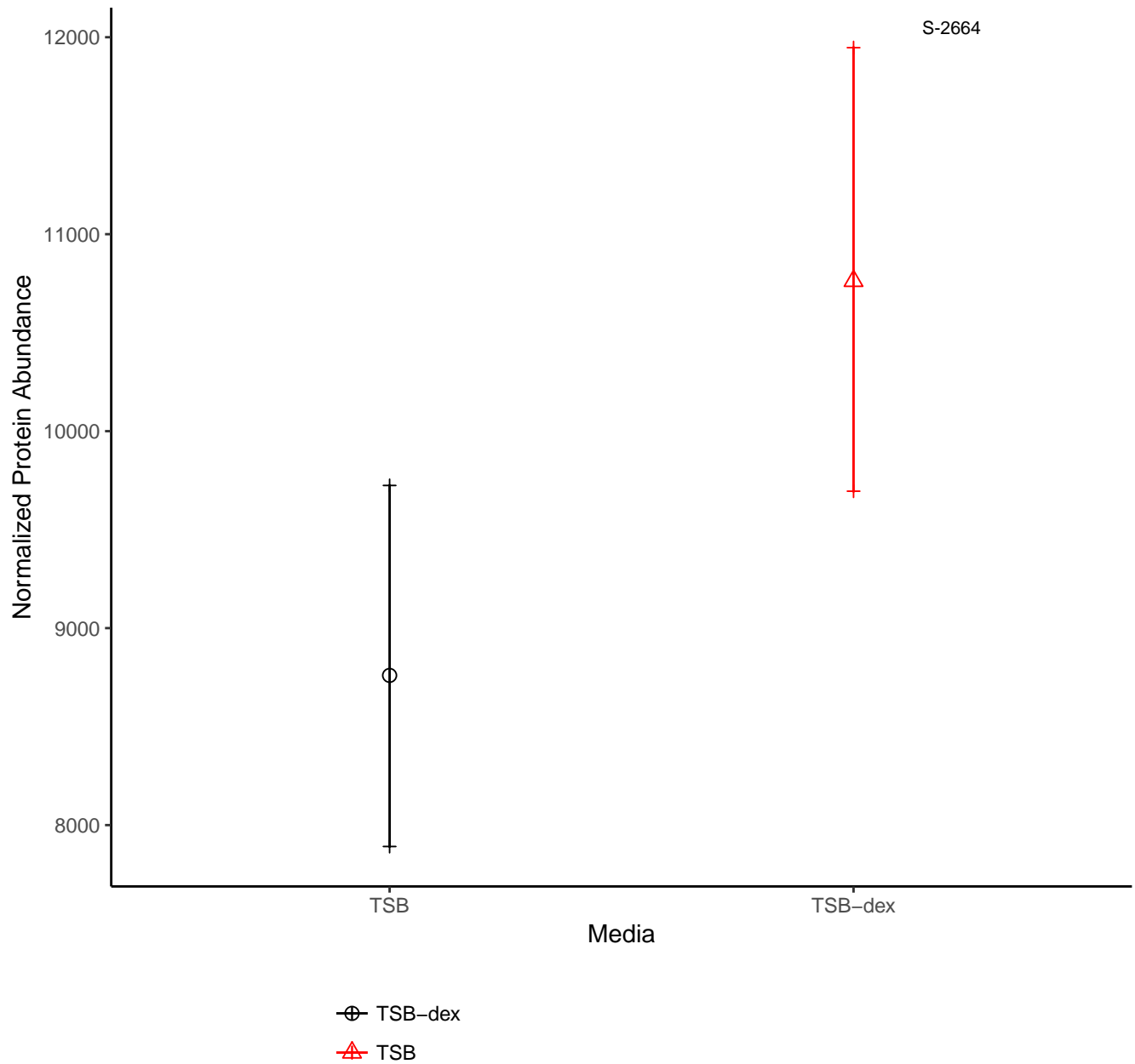
⊕ TSB-dex

△ TSB

# GYRB\_STAAM

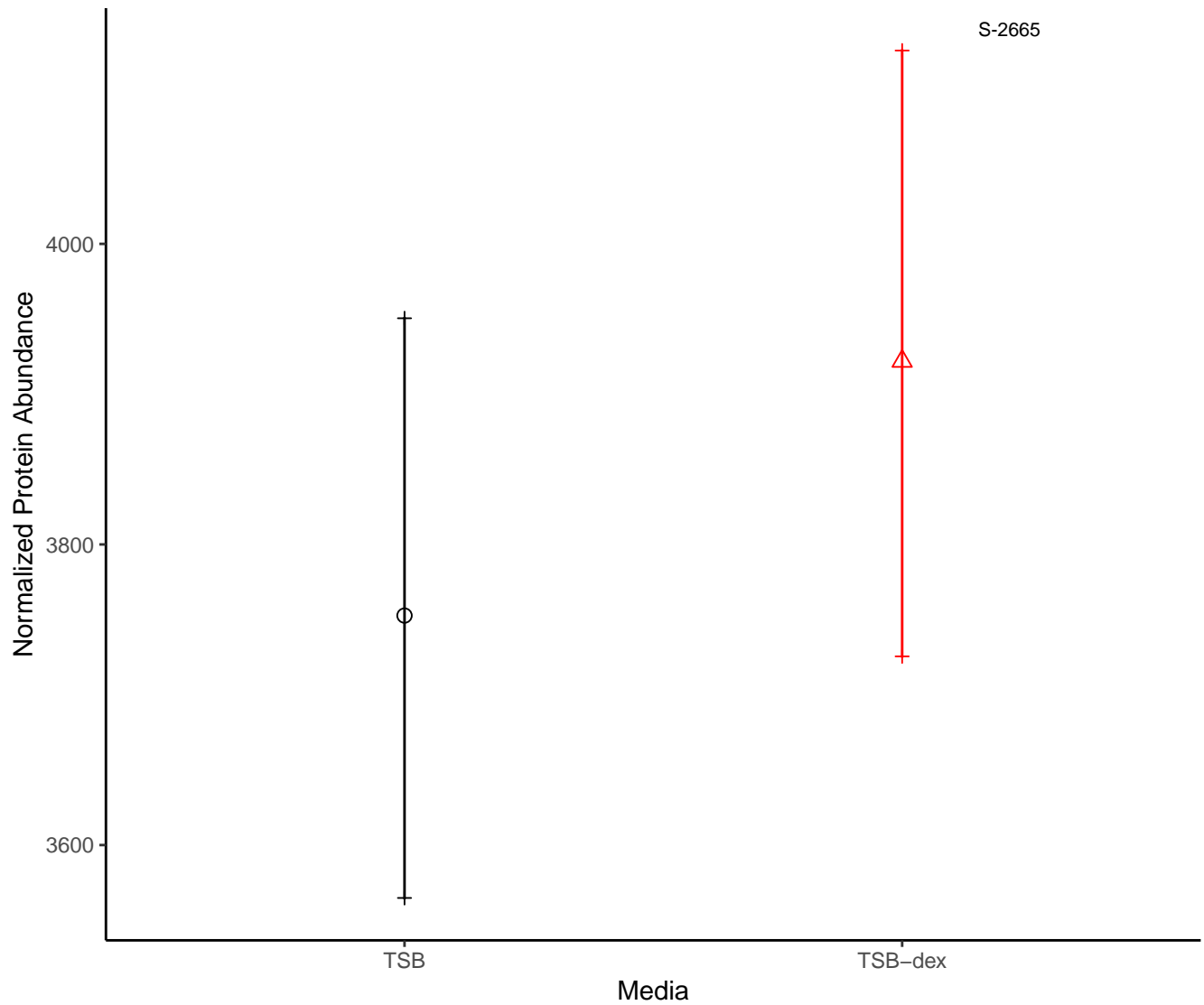


# HCHA\_STAAM





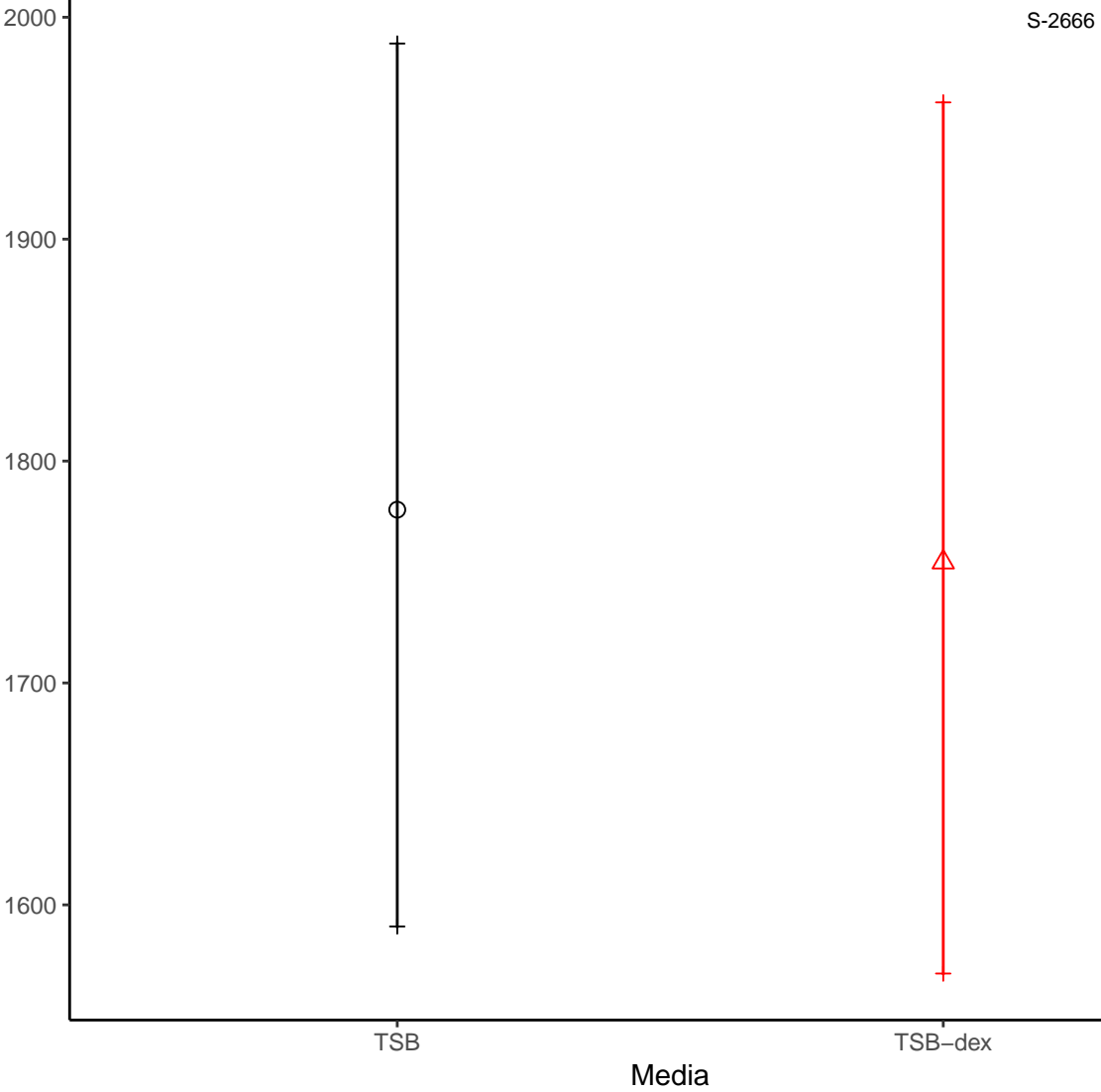
# HEM2\_STAAM



⊕ TSB-dex

△ TSB

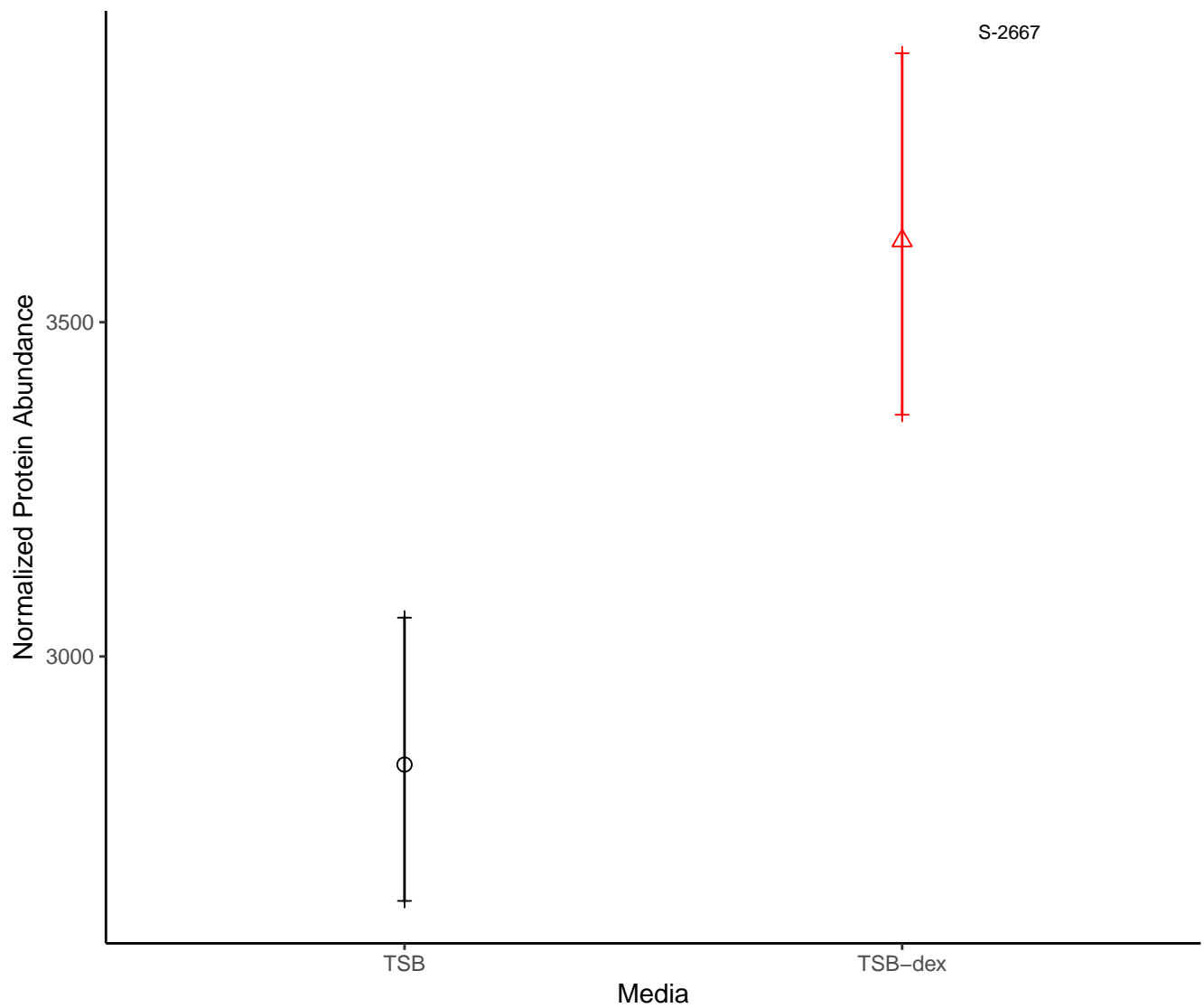
# HEM3\_STAAM



⊕ TSB-dex

△ TSB

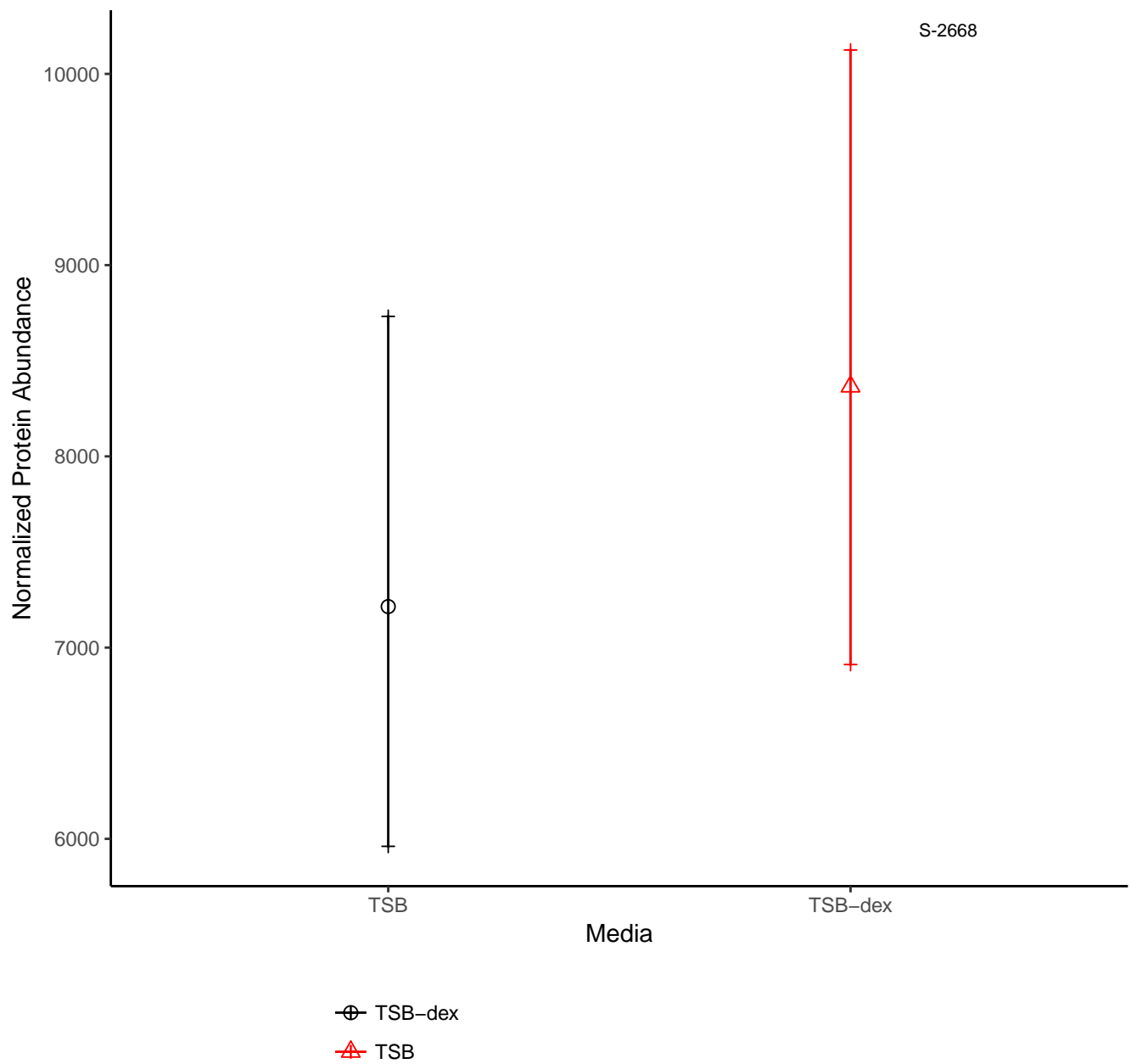
# HLD\_STAAM



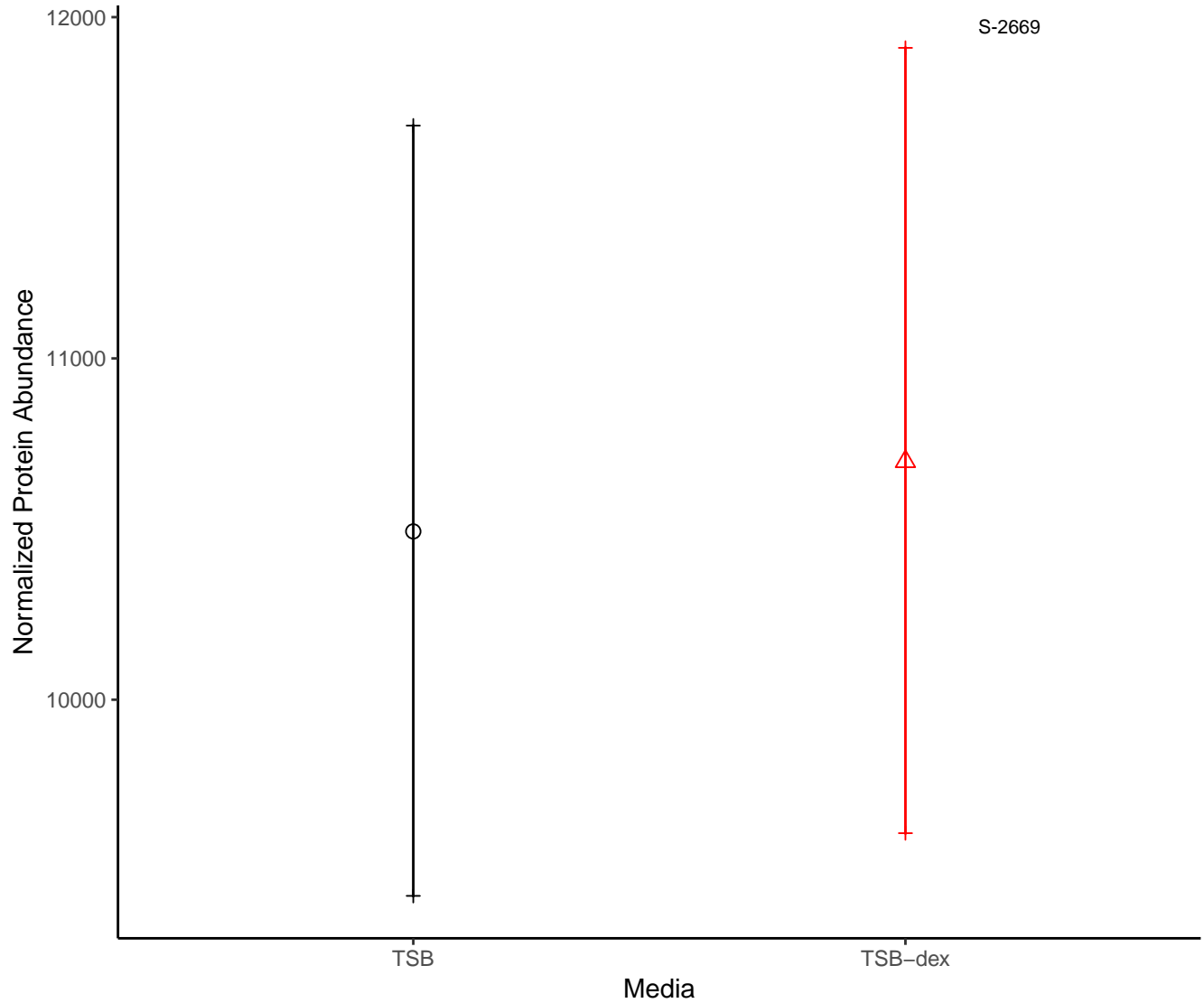
⊕ TSB-dex

△ TSB

# HPRK\_STAAM



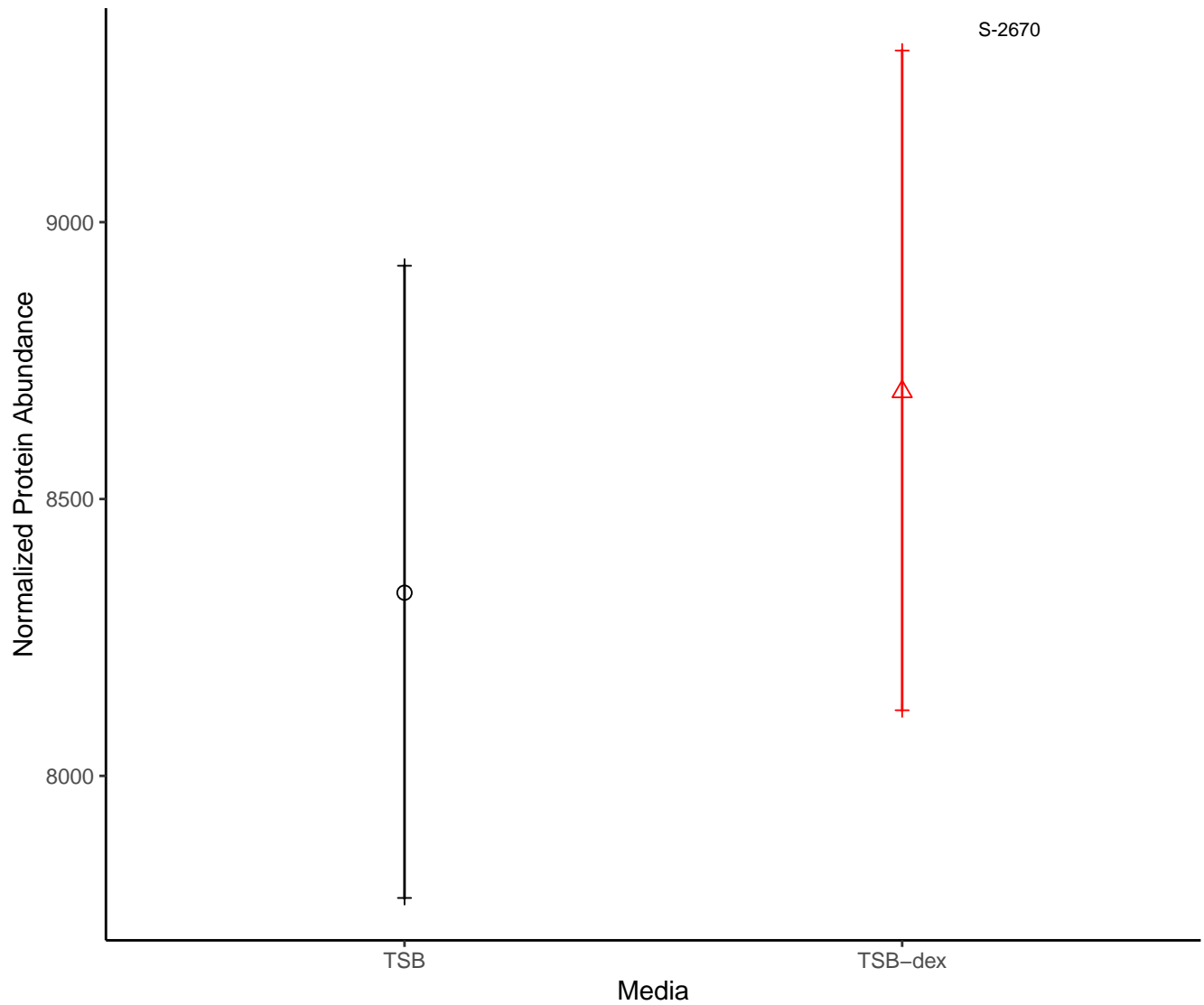
# HPRT\_STAAM



⊕ TSB-dex

△ TSB

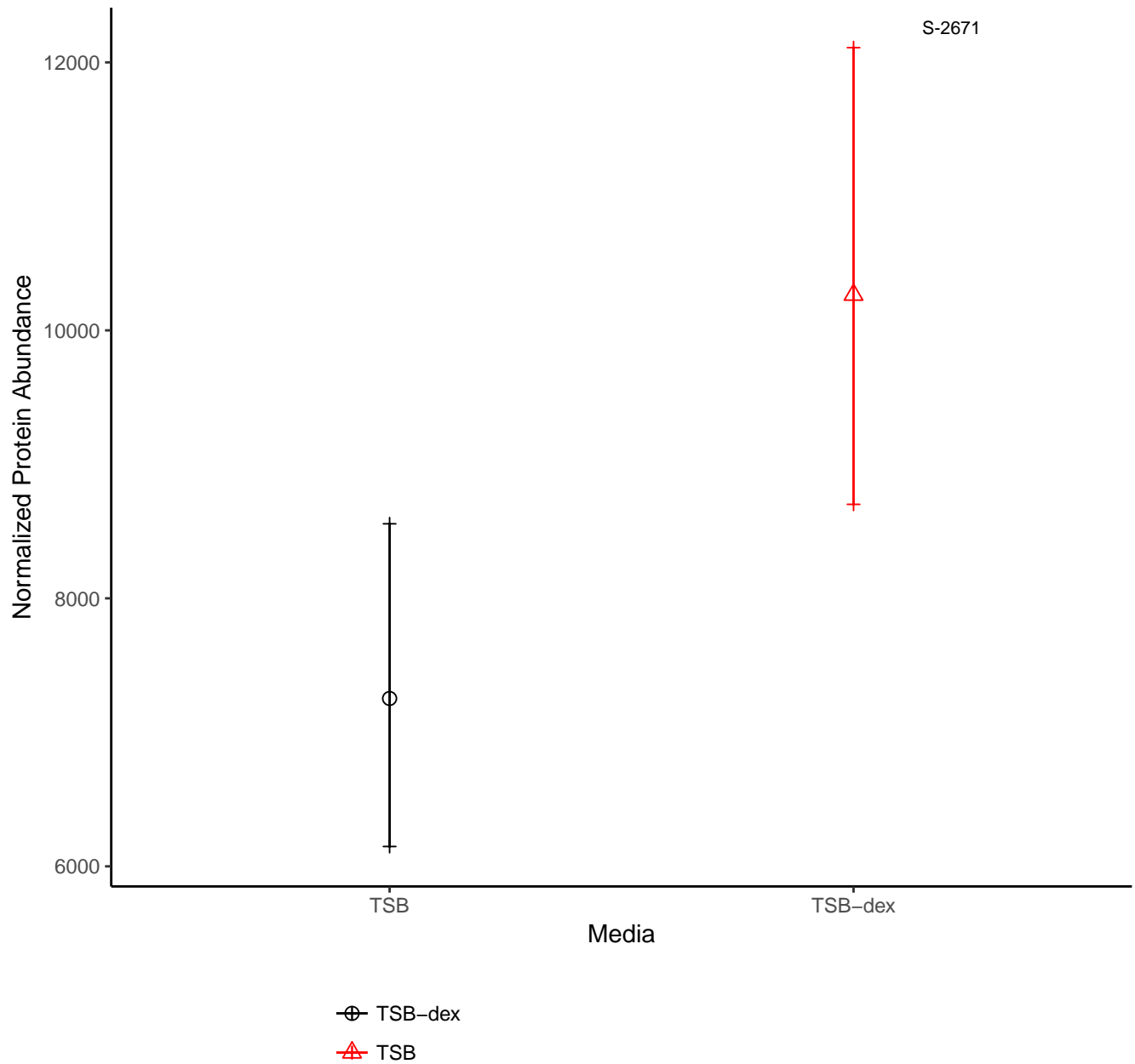
# HPS\_STAAM



⊕ TSB-dex

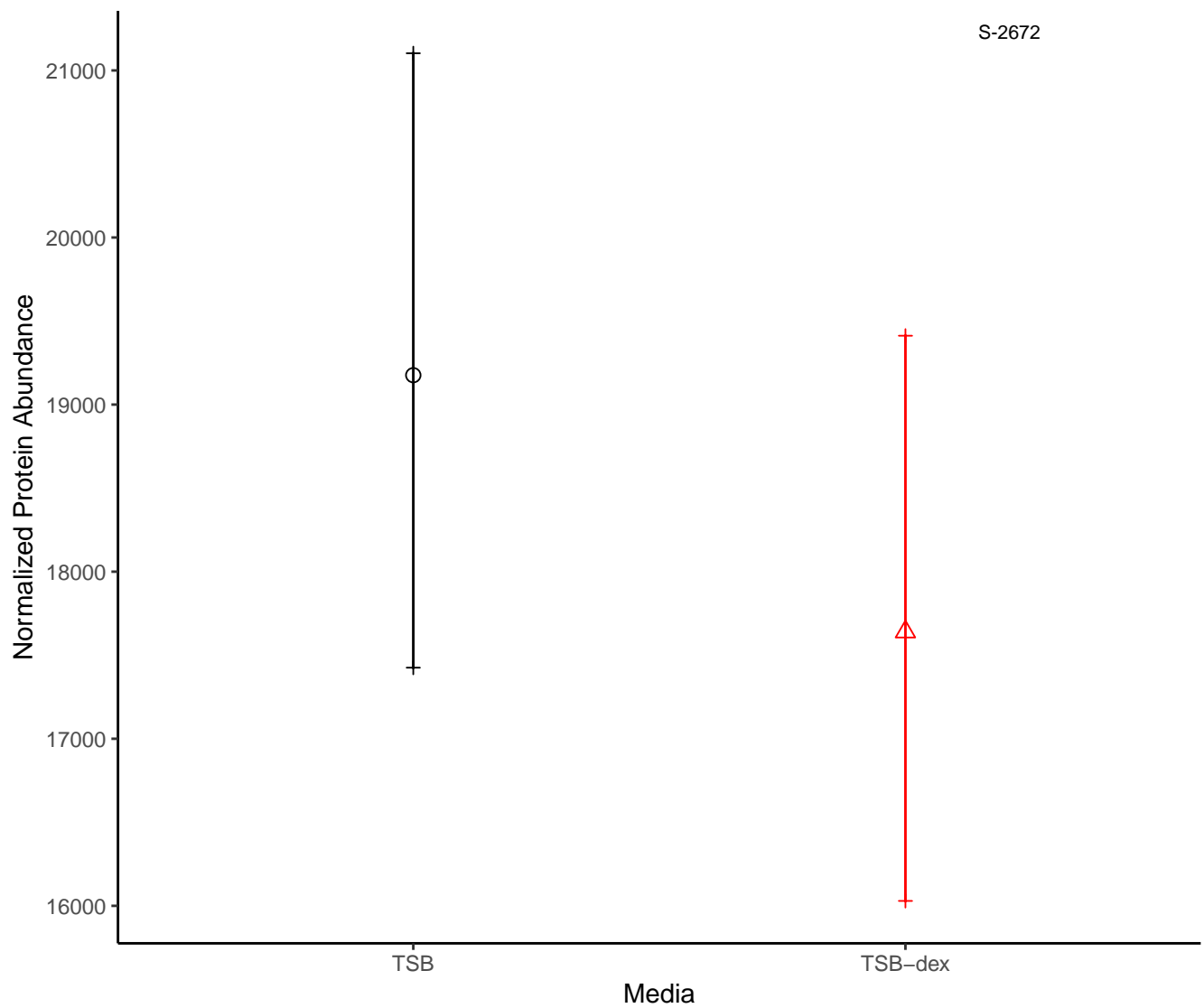
△ TSB

# HRTA\_STAAM



# HSLO\_STAAM

S-2672



⊕ TSB-dex

△ TSB



# HSLU\_STAAM

S-2673

Normalized Protein Abundance

8000

7500

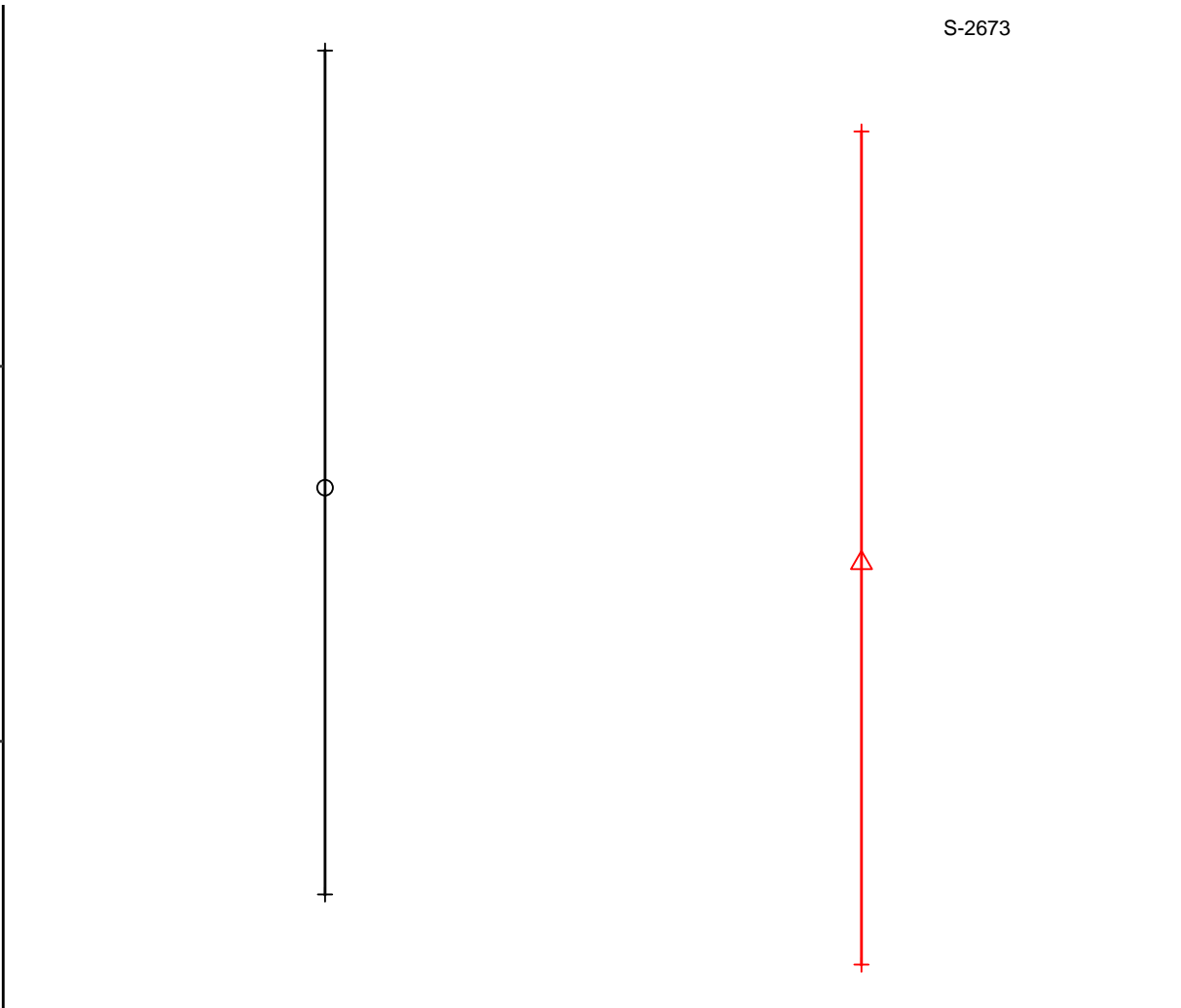
TSB

Media

TSB-dex

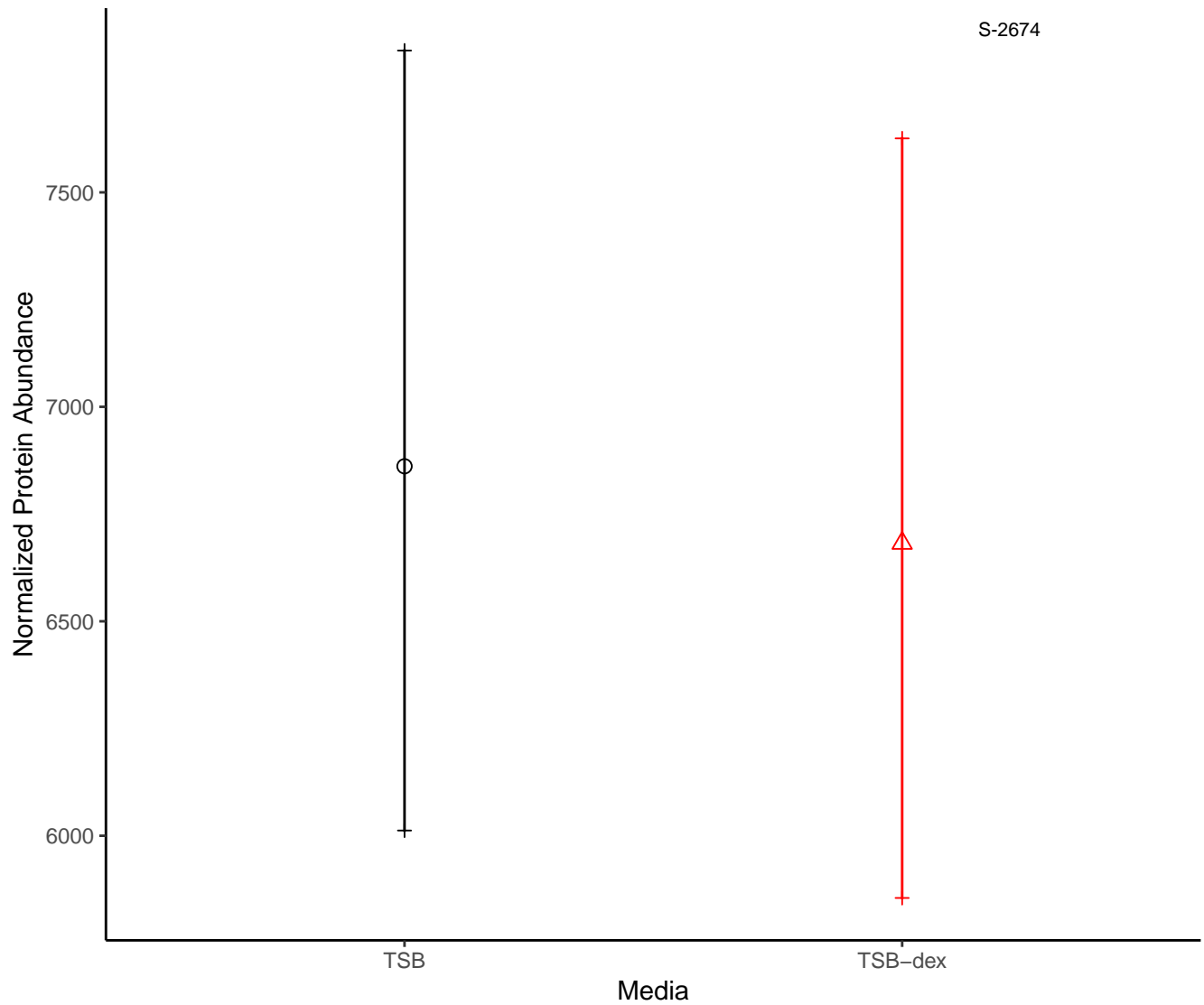
⊕ TSB-dex

△ TSB



# HSLV\_STAAM

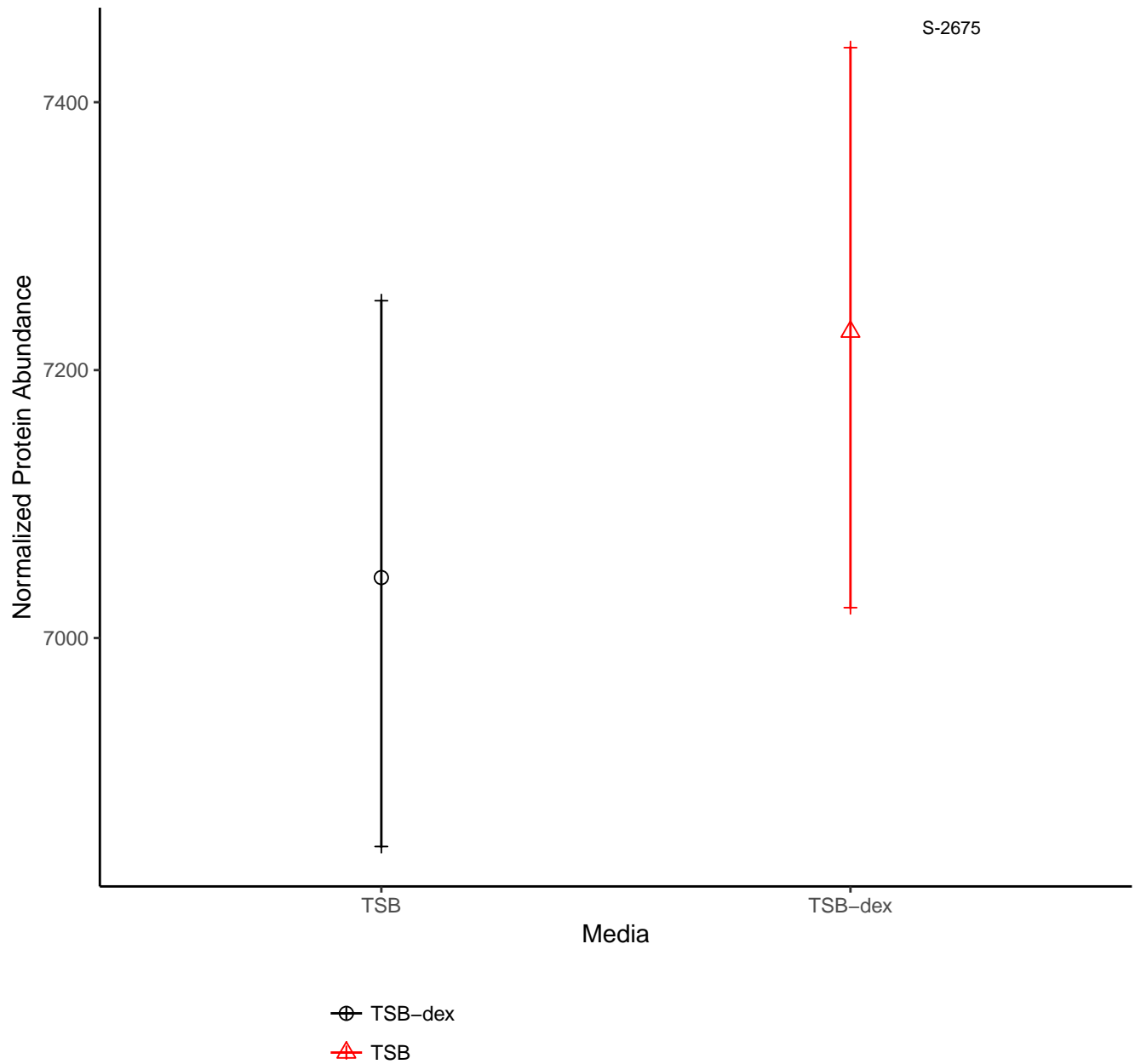
S-2674



⊕ TSB-dex

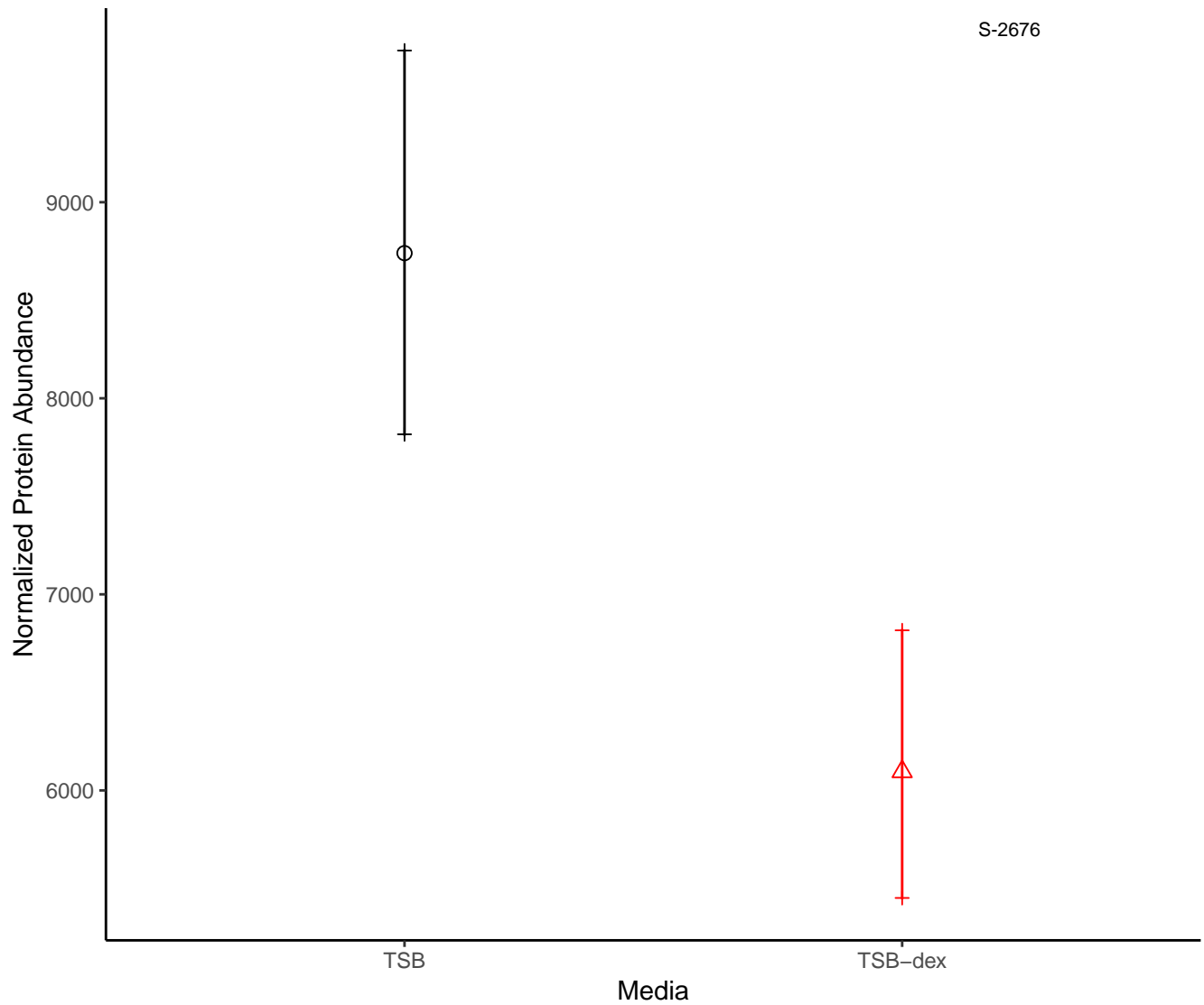
△ TSB

# HUTH\_STAAM



# HUTI\_STAAM

S-2676

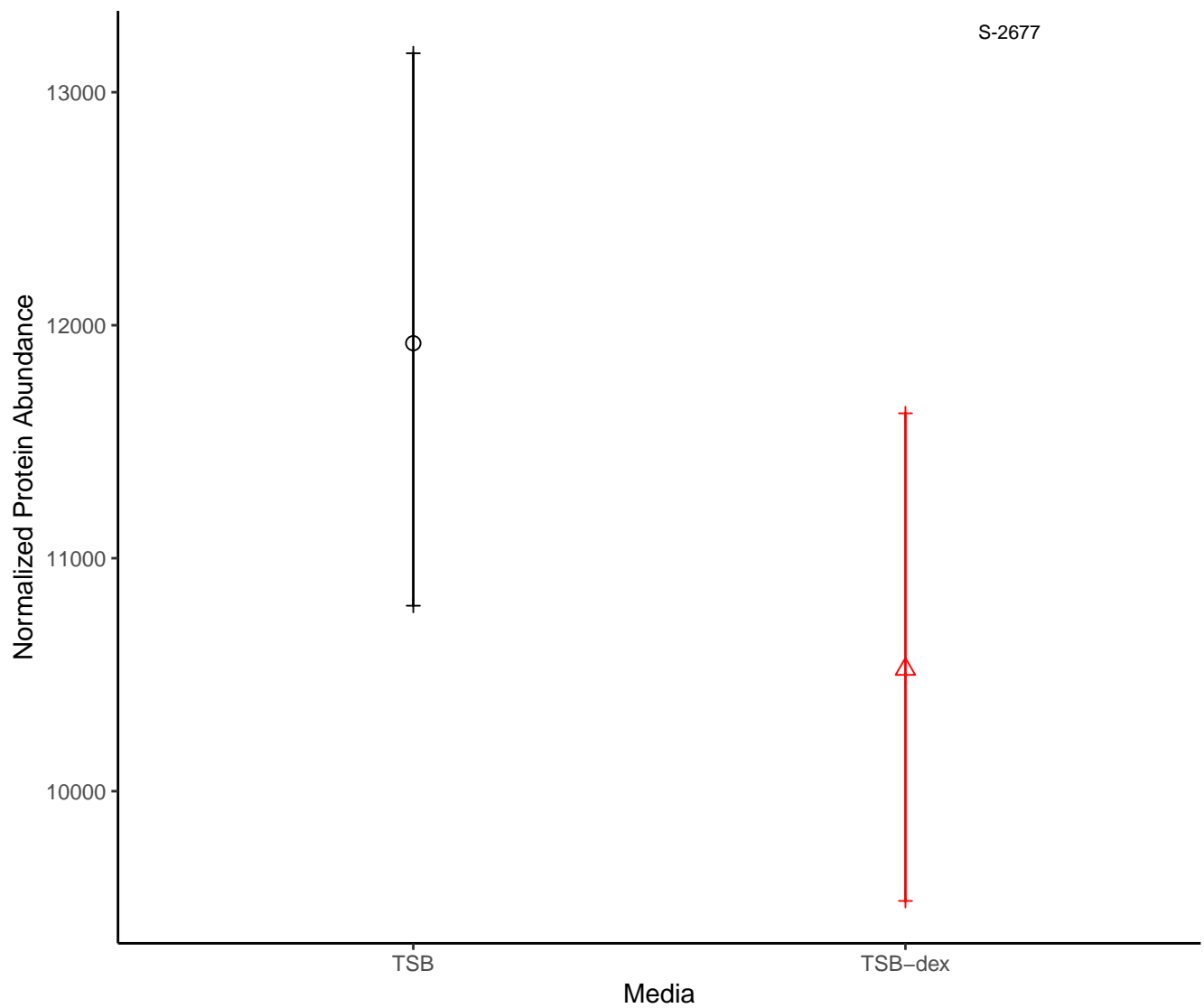


⊕ TSB-dex

△ TSB

# HUTU\_STAAM

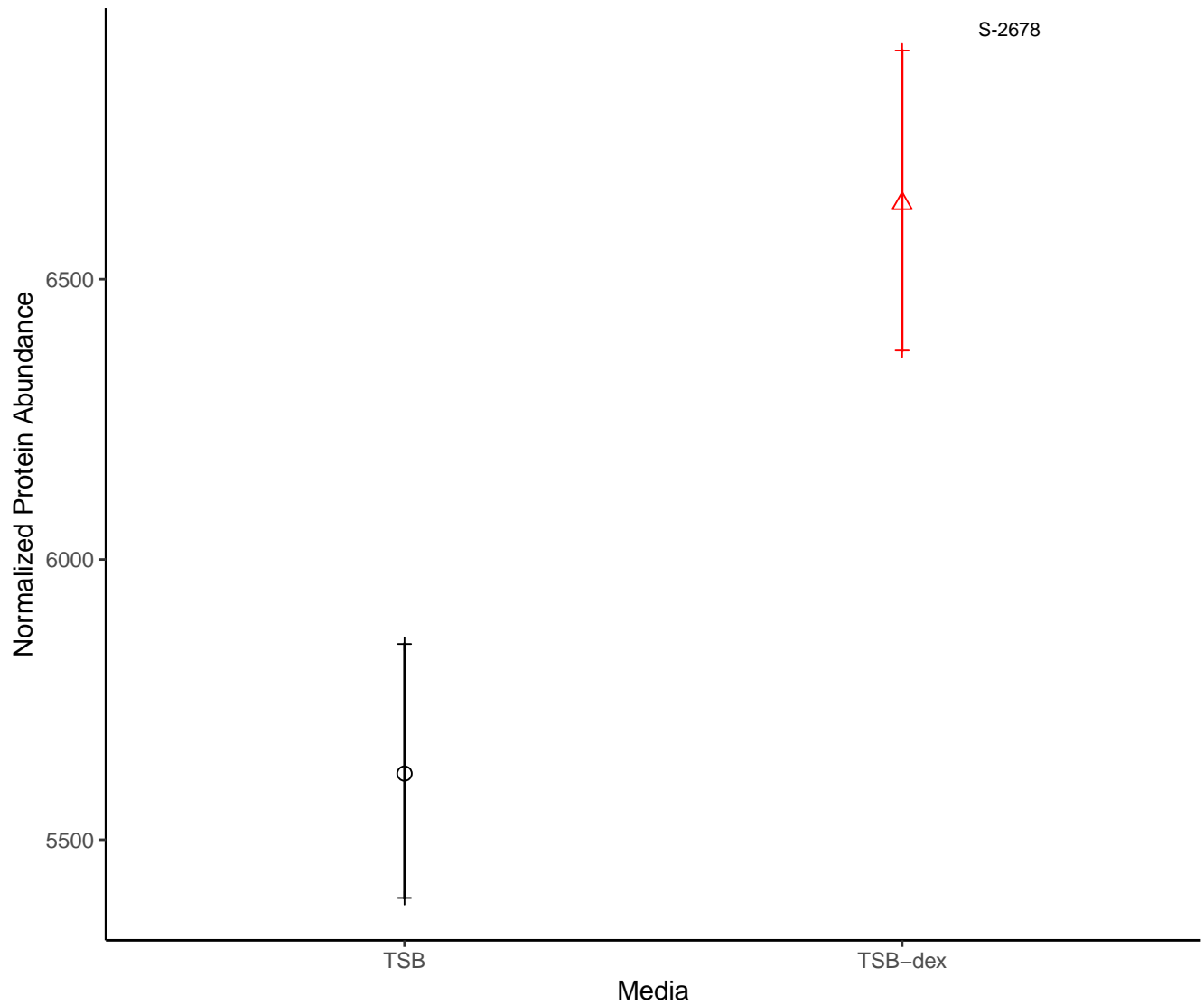
S-2677



⊙ TSB-dex

△ TSB

# ICAB\_STAAM

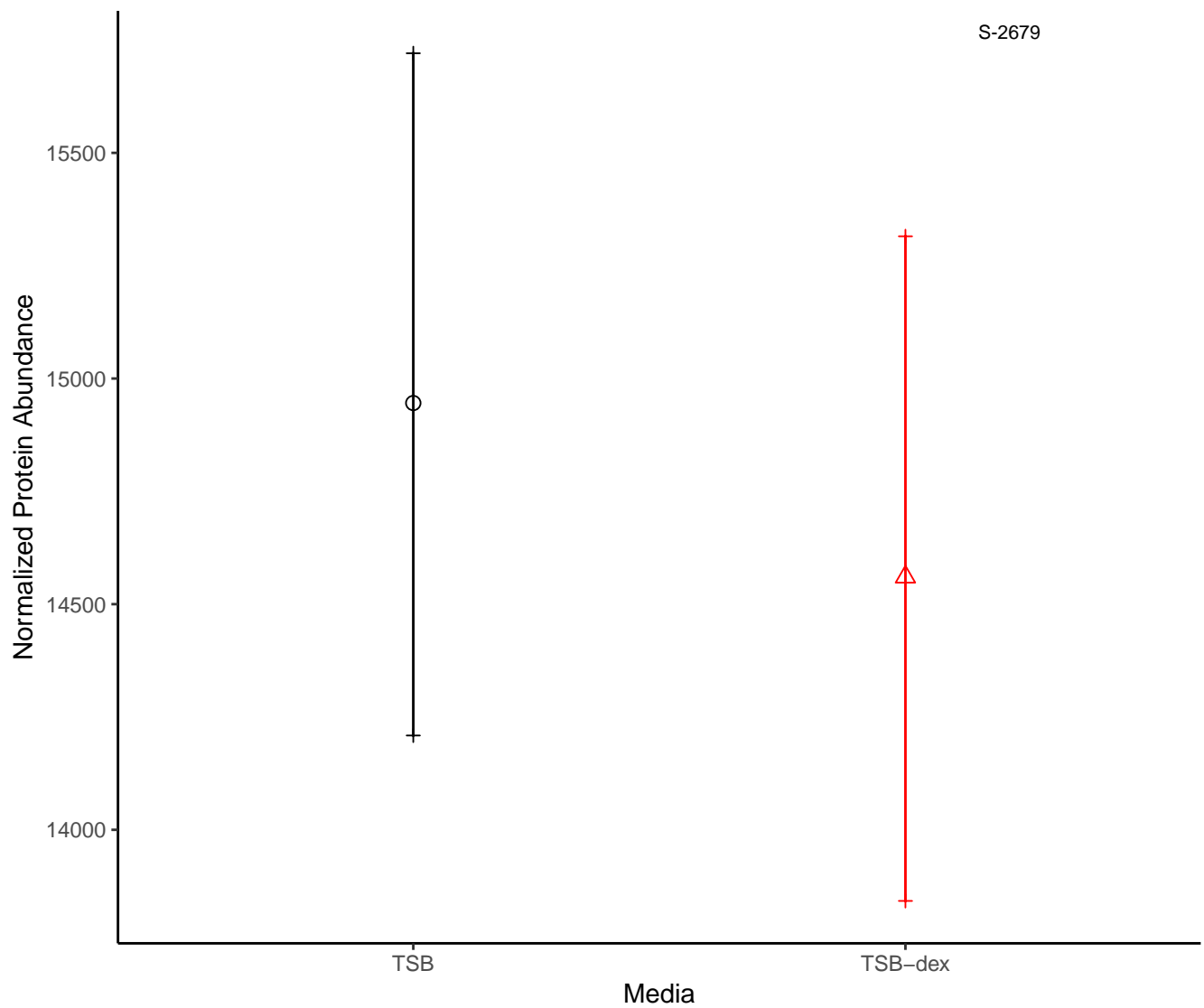


⊕ TSB-dex

△ TSB

# IDH\_STAAM

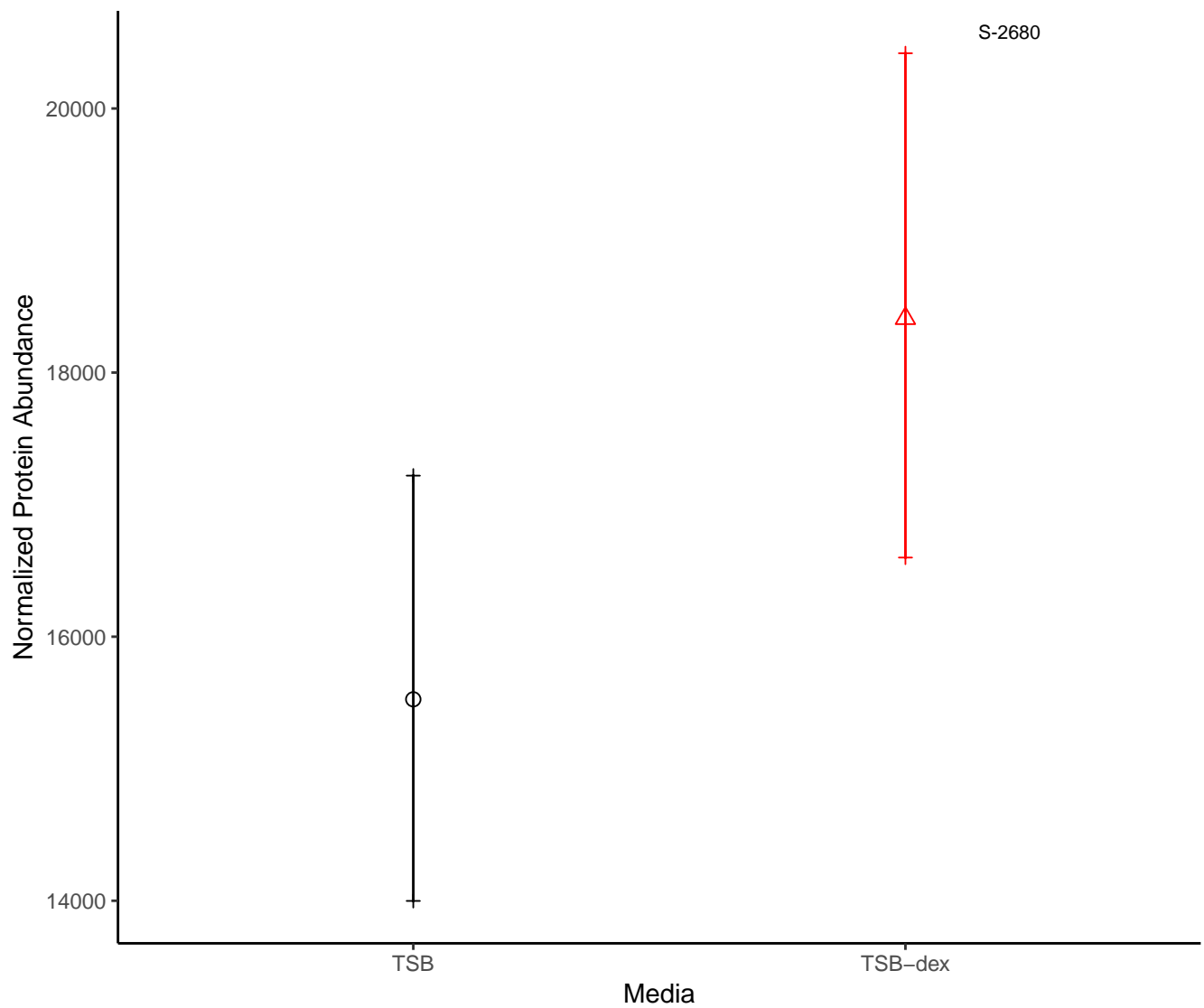
S-2679



⊕ TSB-dex

△ TSB

# IF1\_STAAM

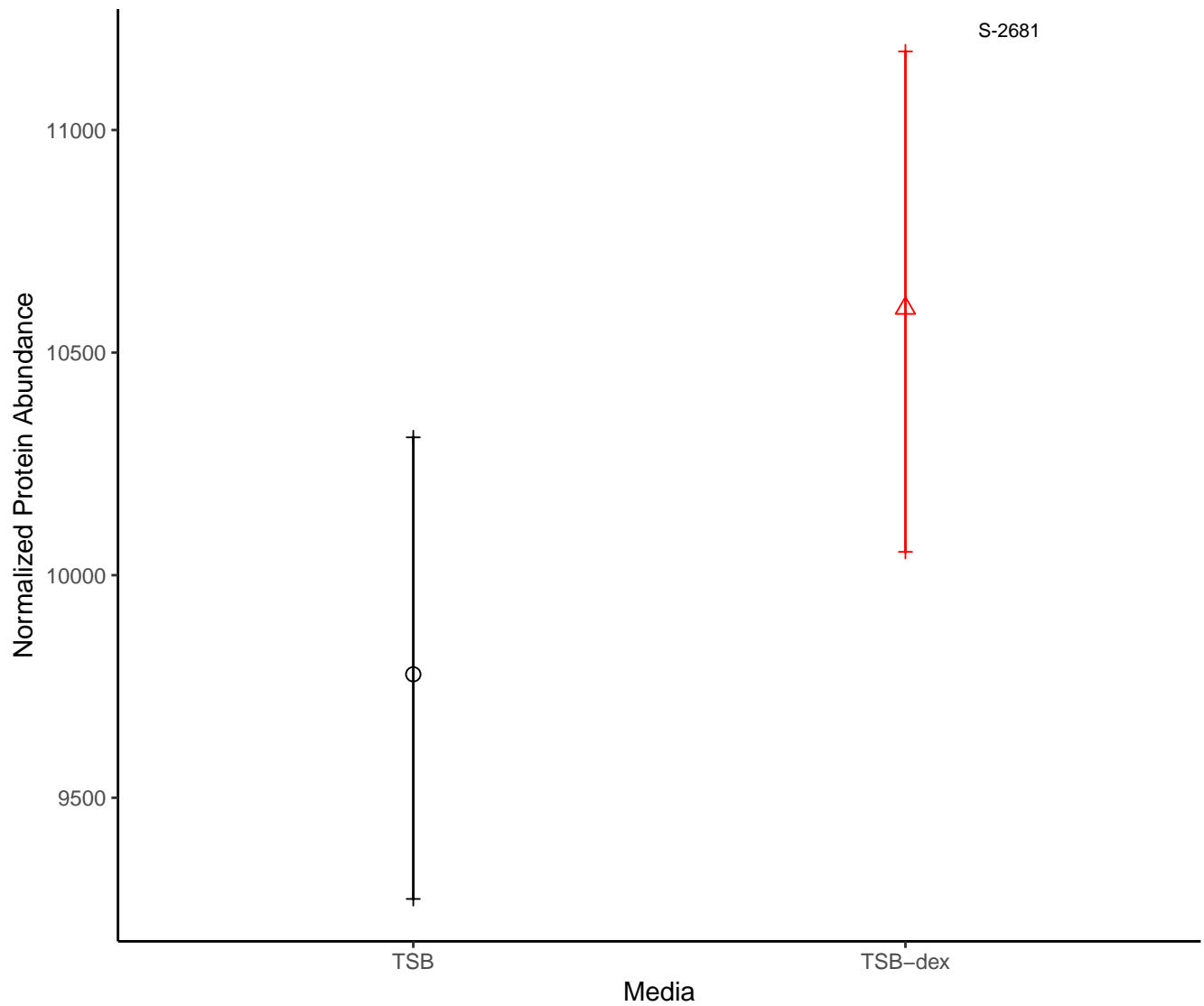


⊖ TSB-dex

△ TSB



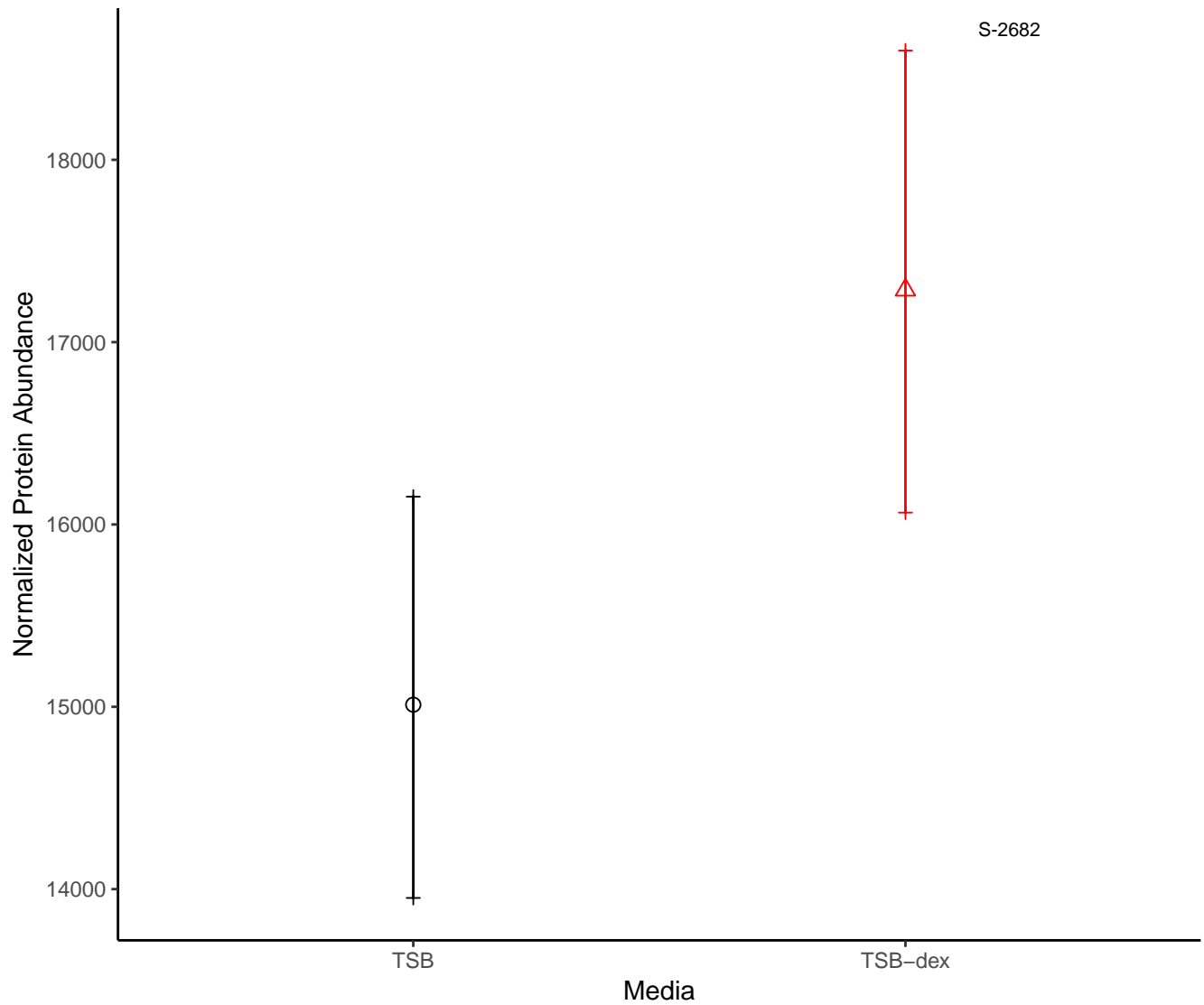
# IF2\_STAAM



⊖ TSB-dex

△ TSB

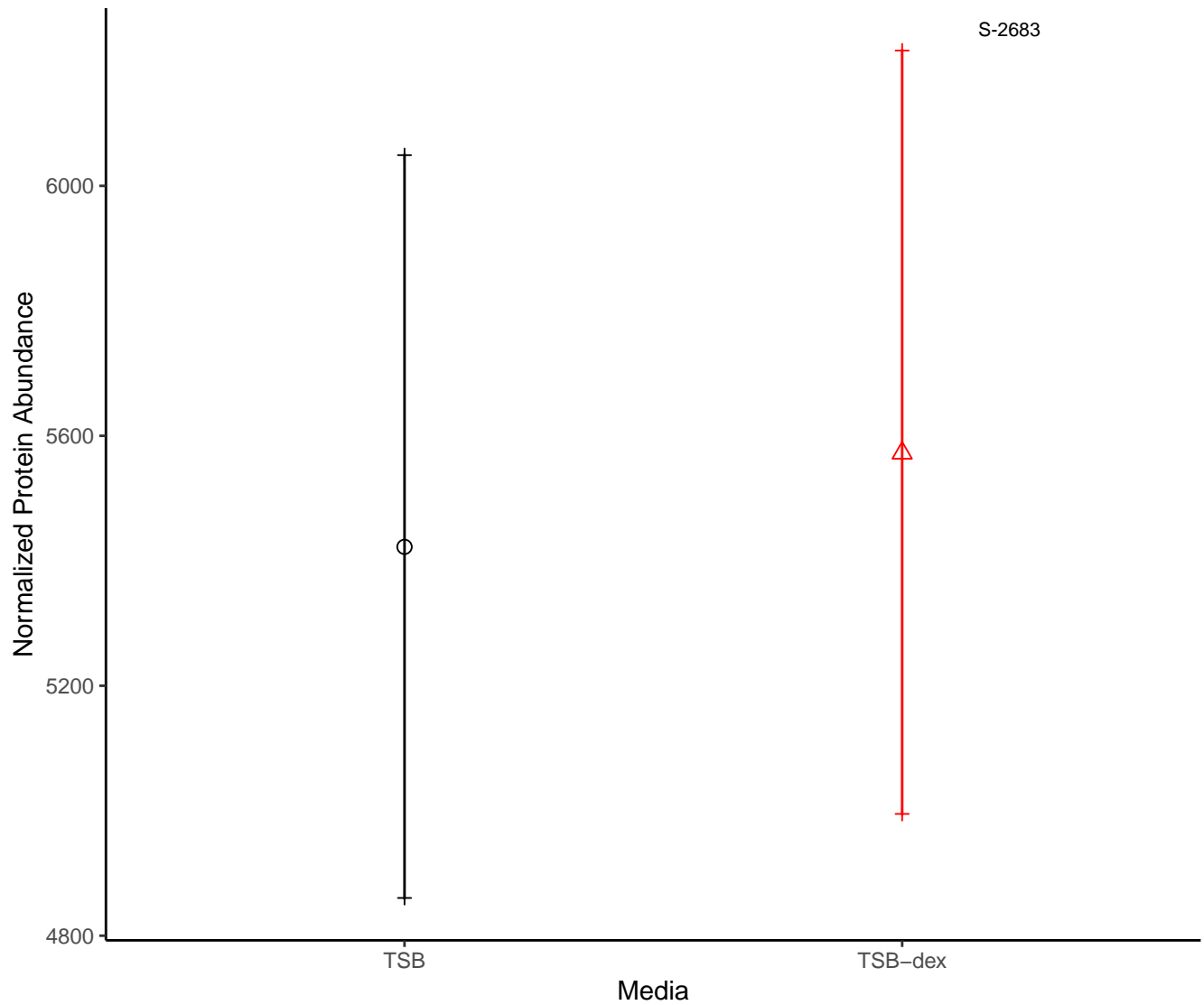
# IF3\_STAAM



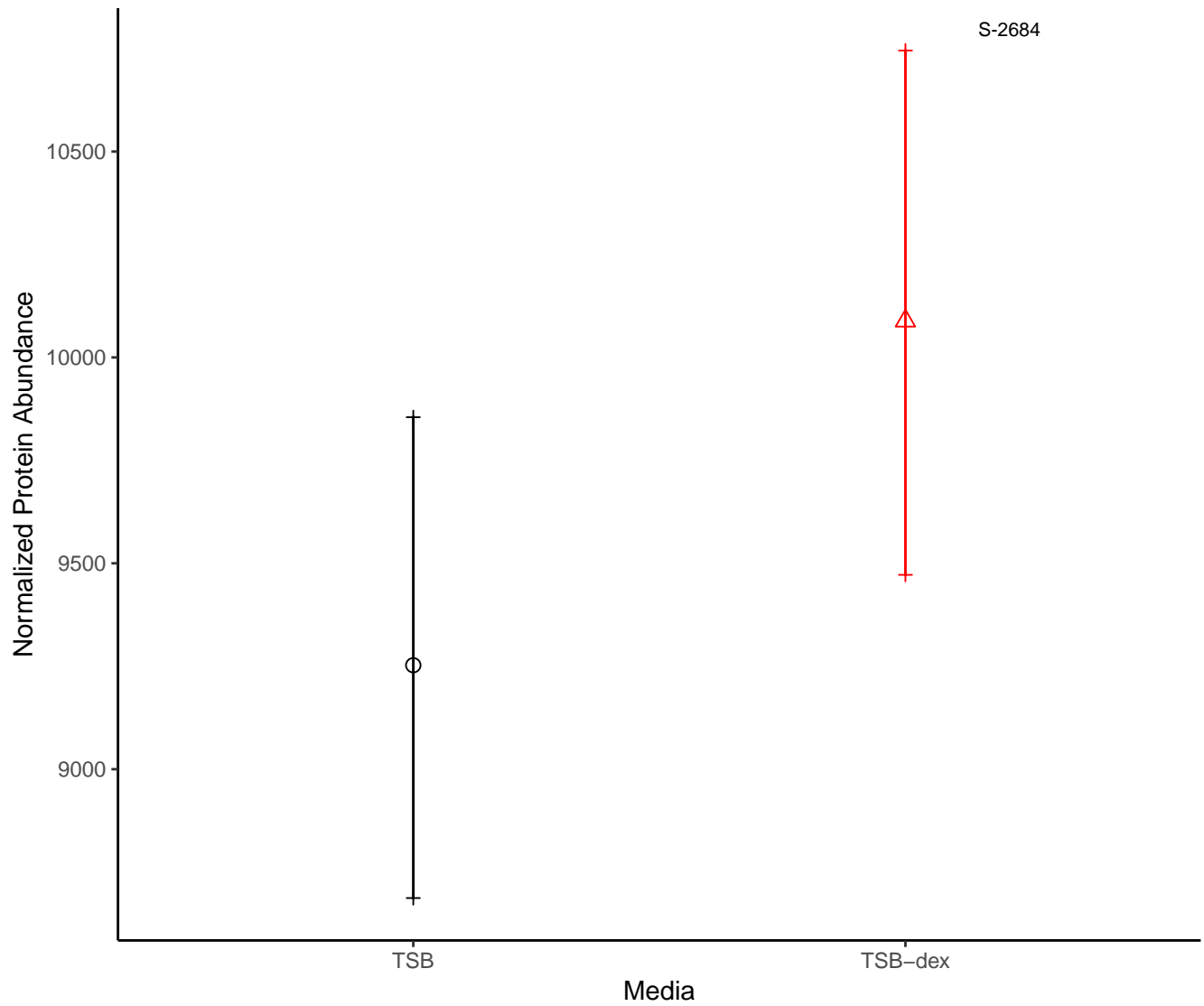
⊖ TSB-dex

△ TSB

# ILVC\_STAAM



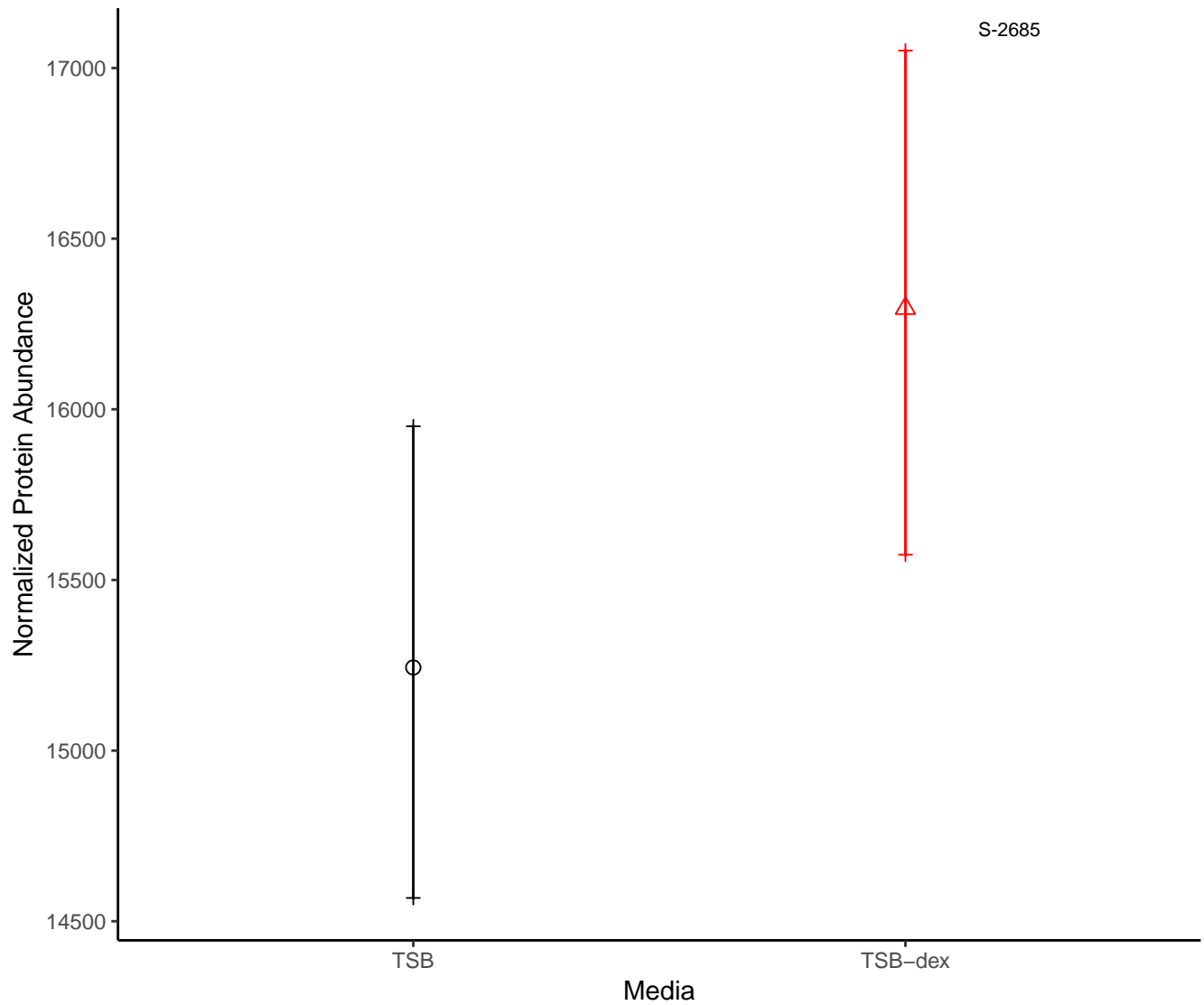
# ILVE\_STAAM



⊖ TSB-dex

△ TSB

# IMDH\_STAAM

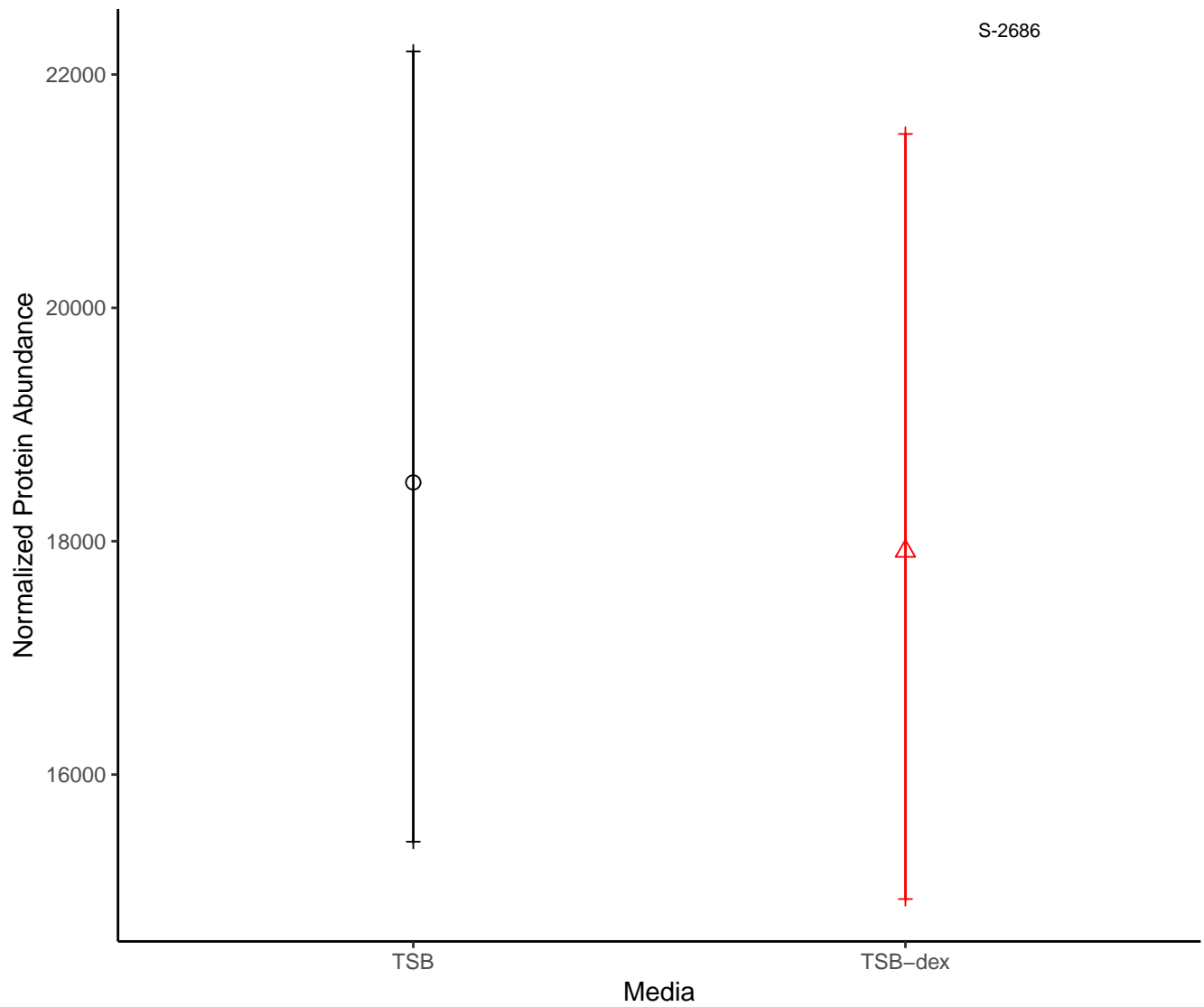


⊕ TSB-dex

△ TSB

# ISAA\_STAAM

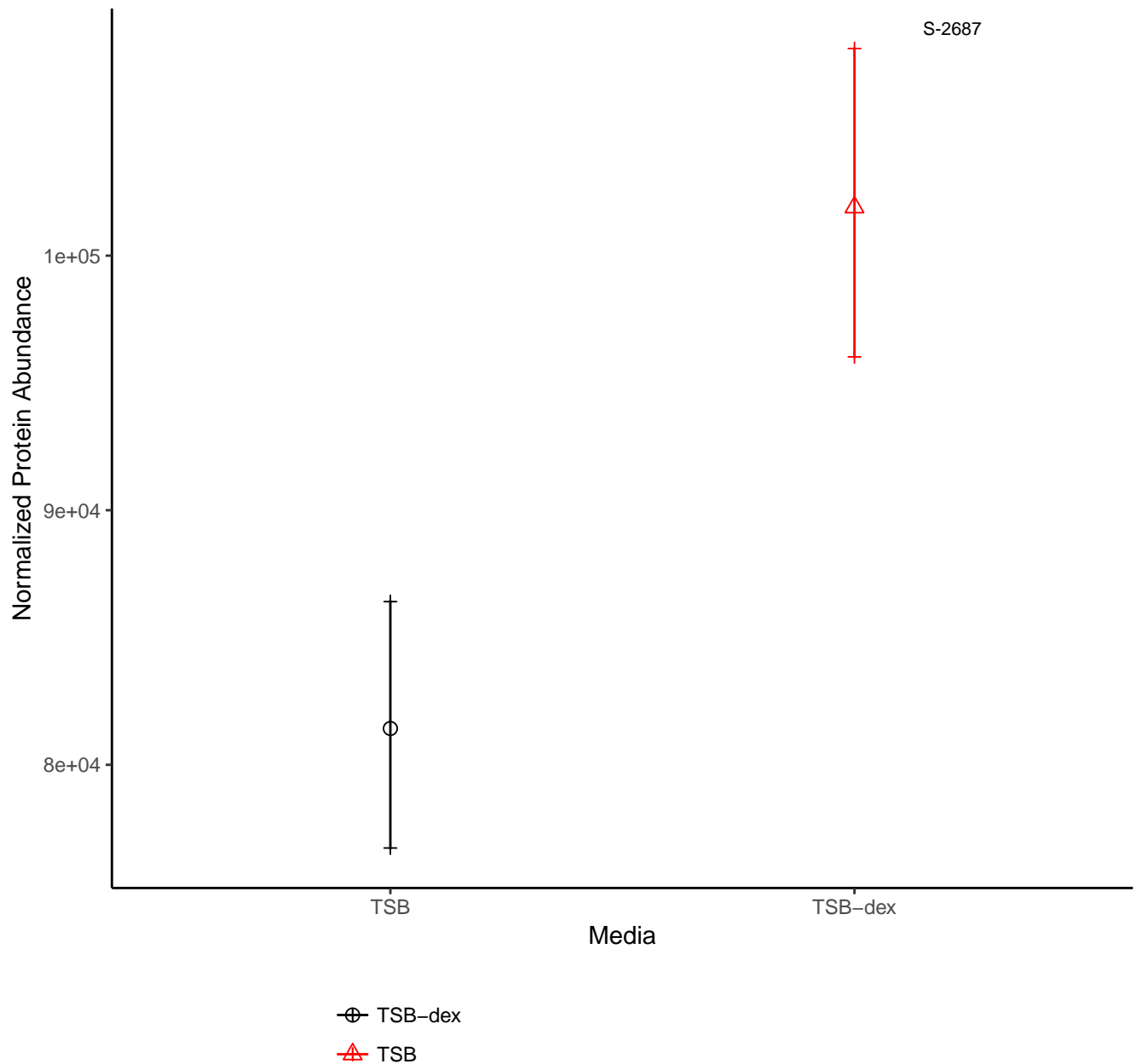
S-2686



⊕ TSB-dex

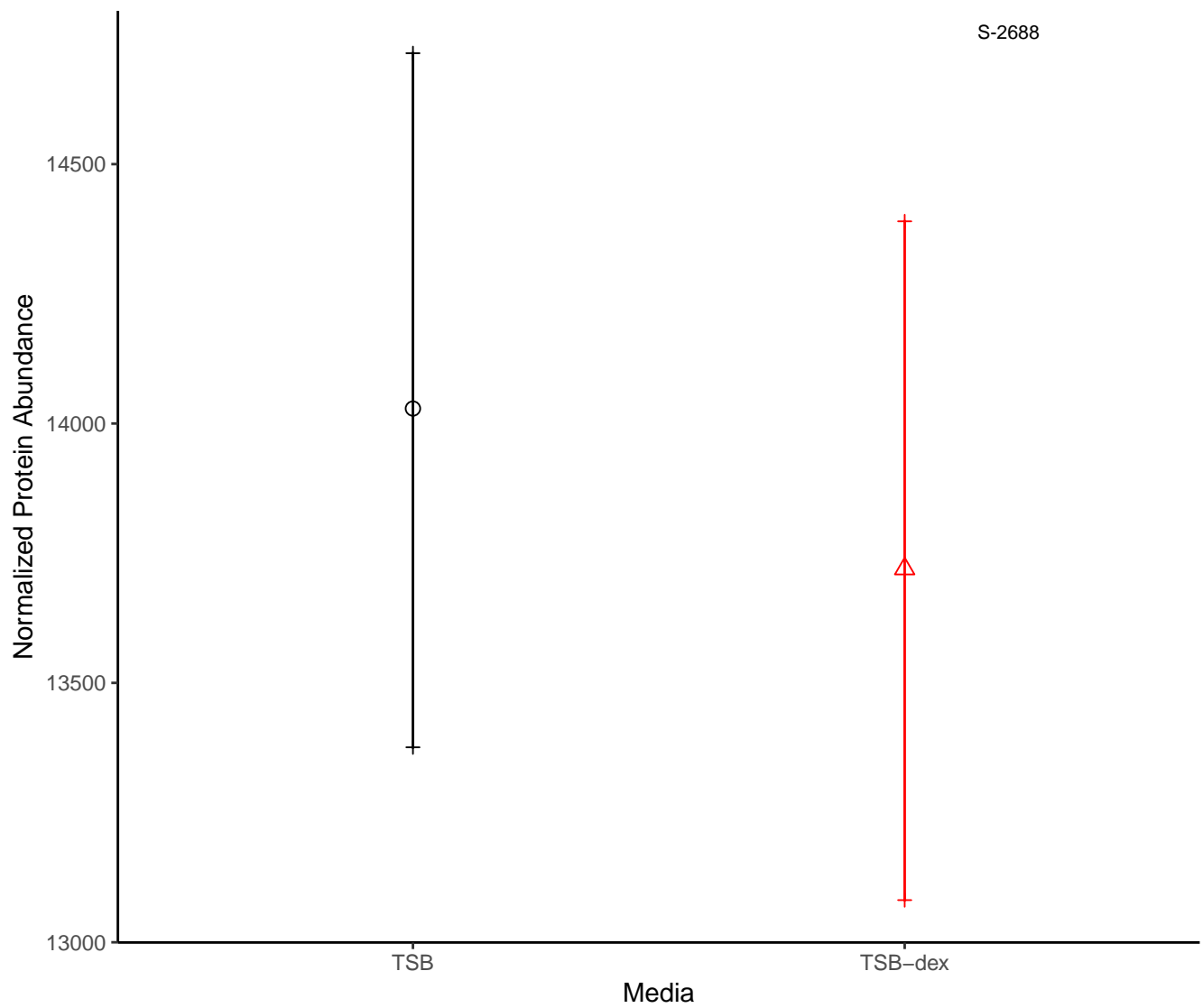
△ TSB

# ISPD1\_STAAM



# ISPD2\_STAAM

S-2688

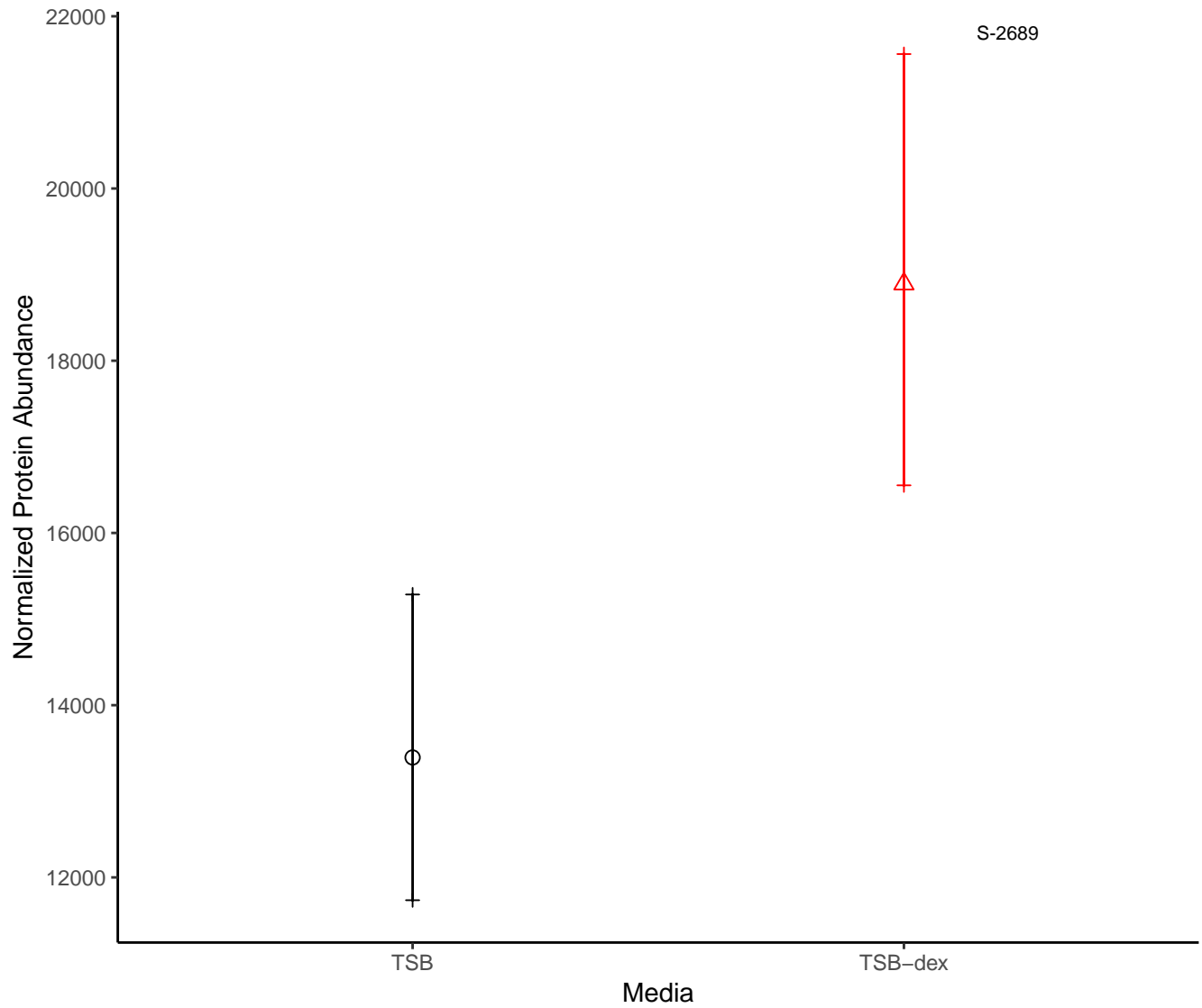


⊕ TSB-dex

△ TSB



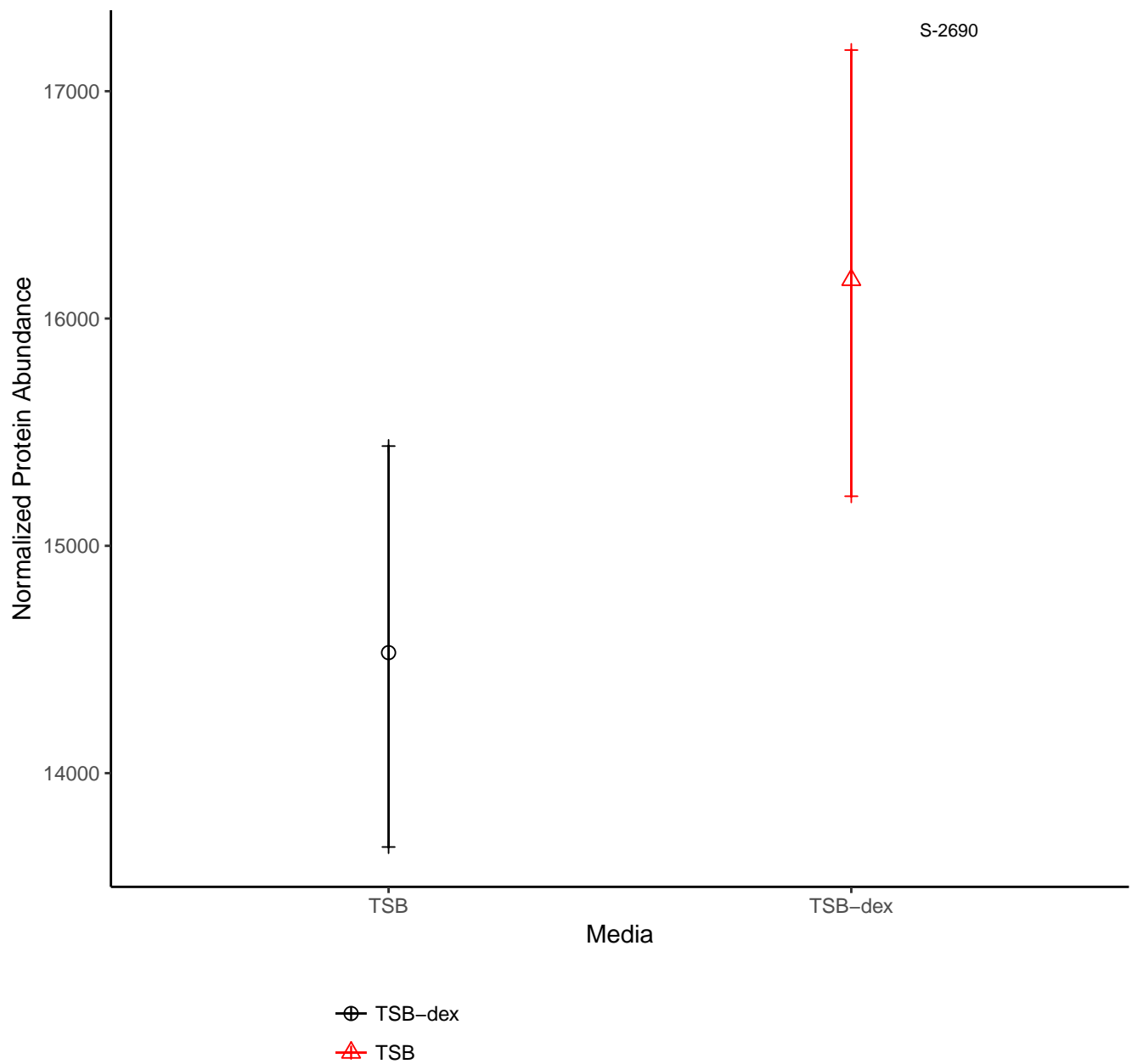
# ISPE\_STAAM



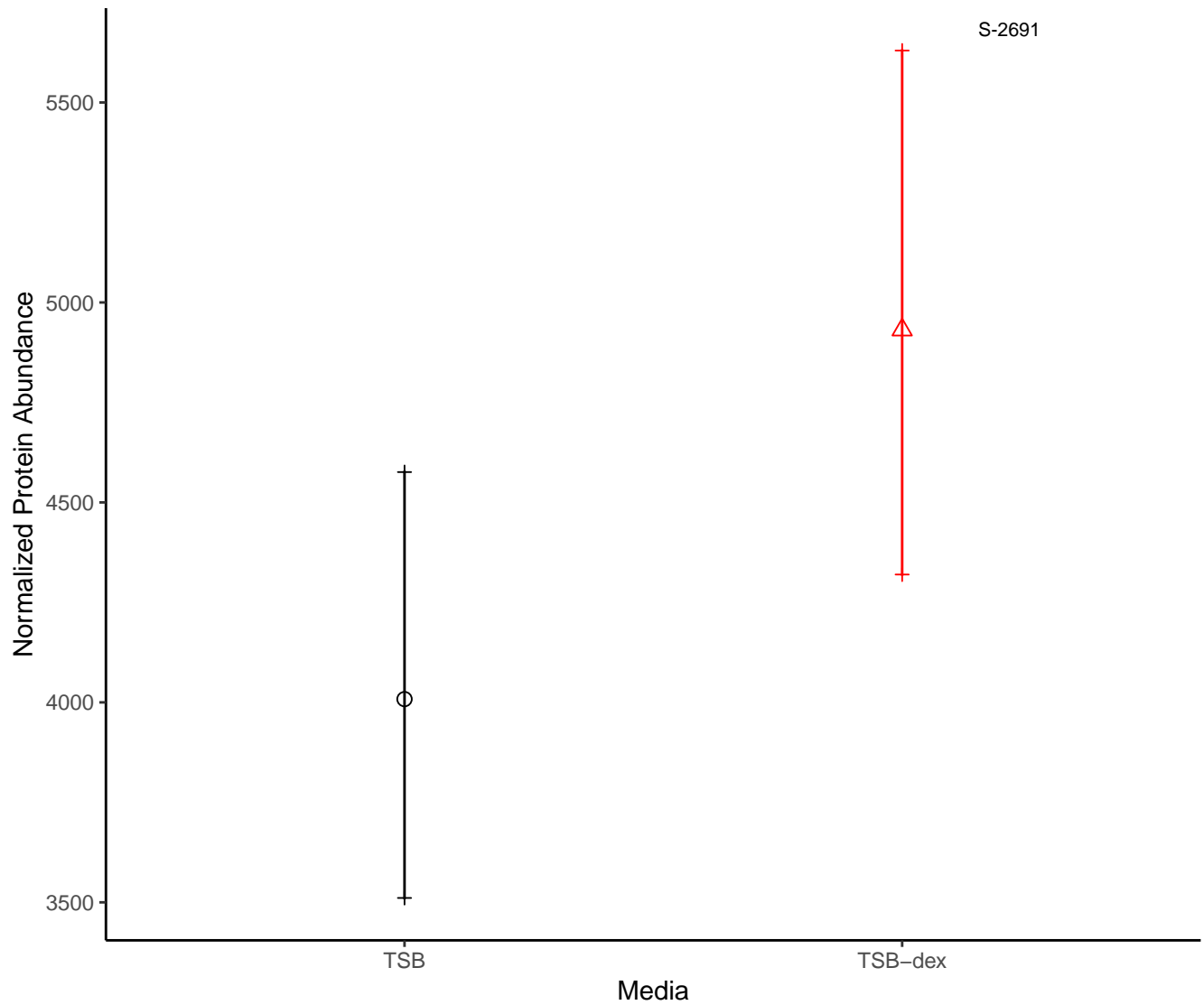
⊕ TSB-dex

△ TSB

# KAD\_STAAM



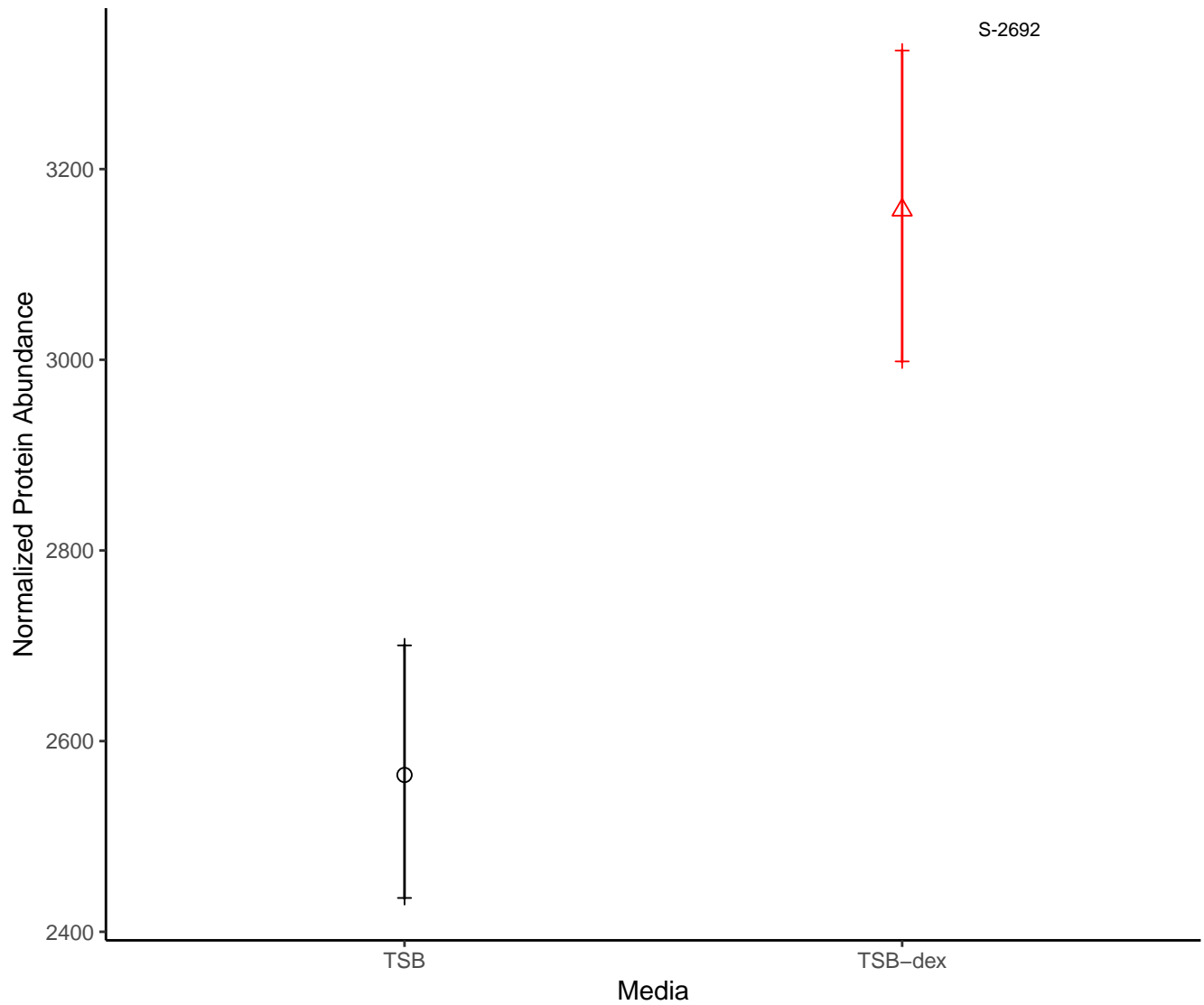
# KCY\_STAAM



⊕ TSB-dex

△ TSB

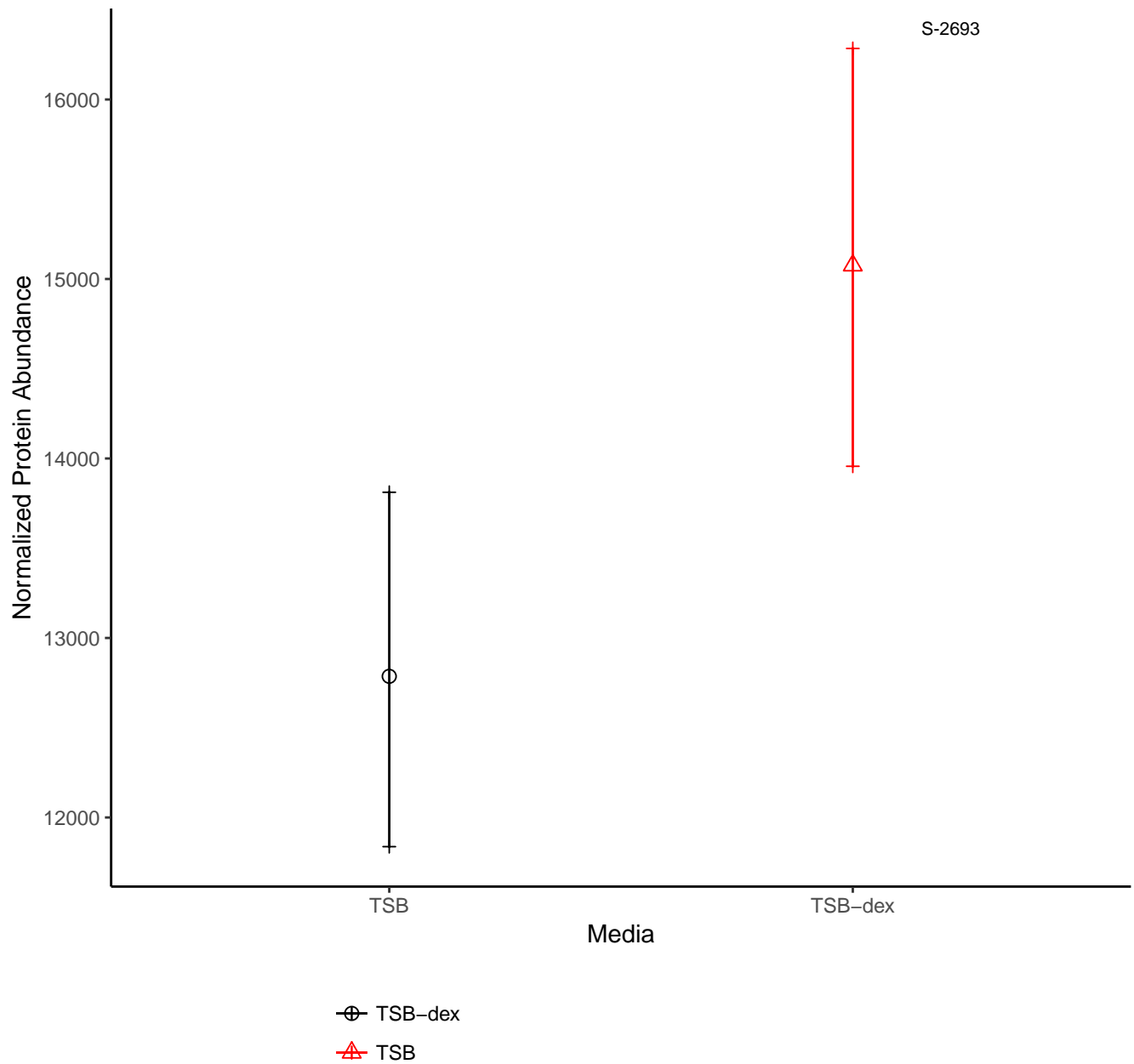
# KITH\_STAAM



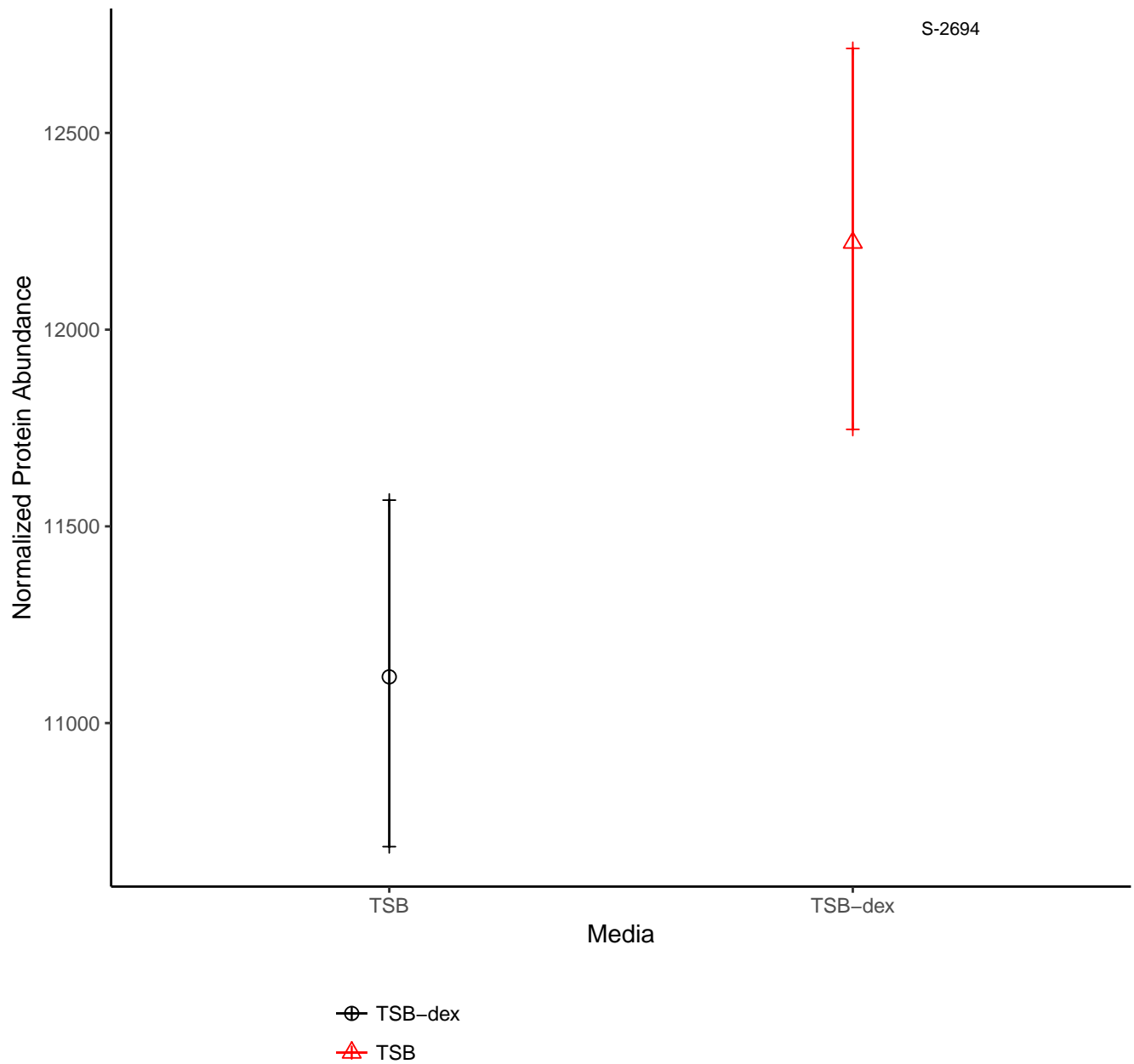
⊕ TSB-dex

△ TSB

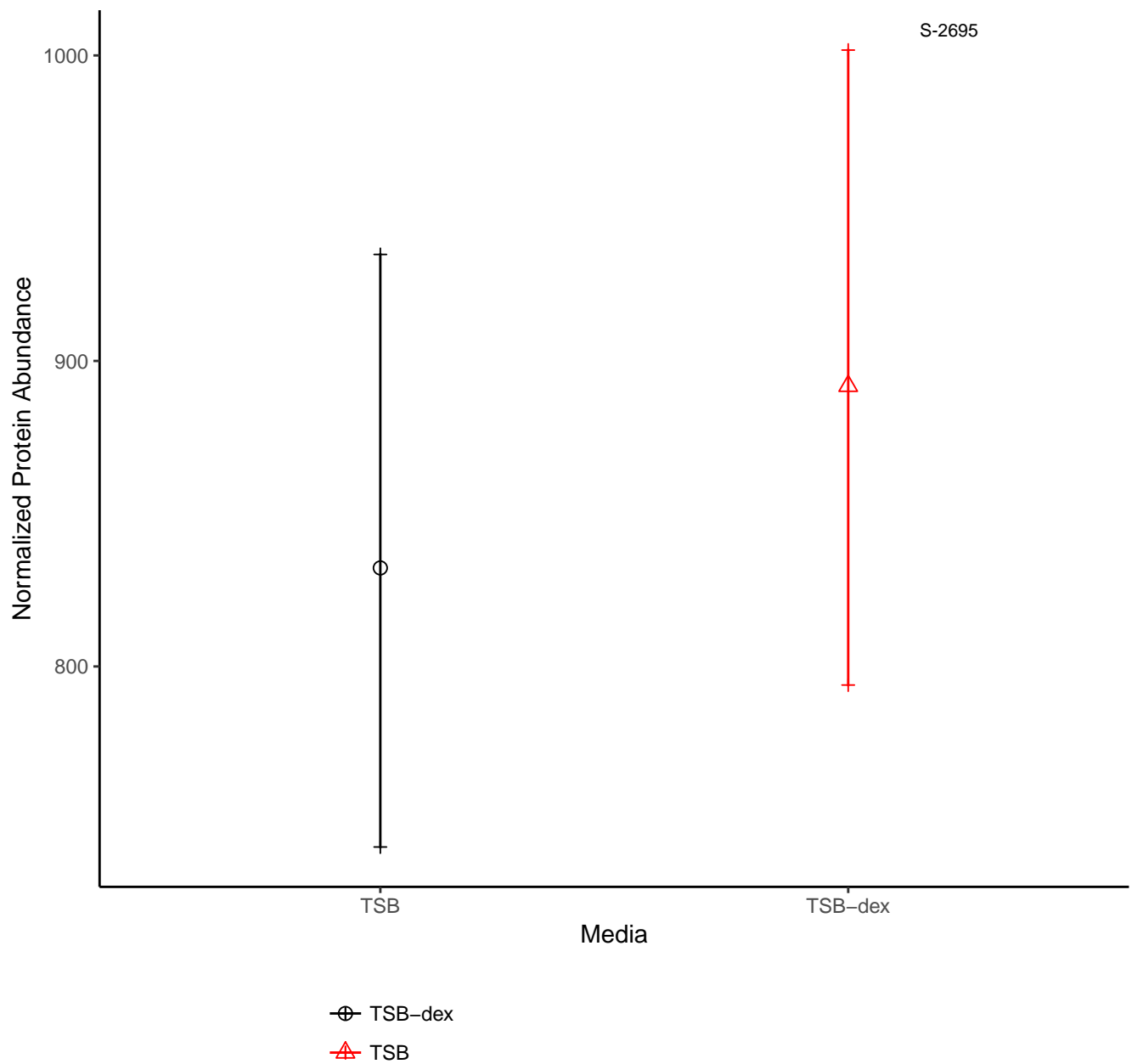
# KPRS\_STAAM



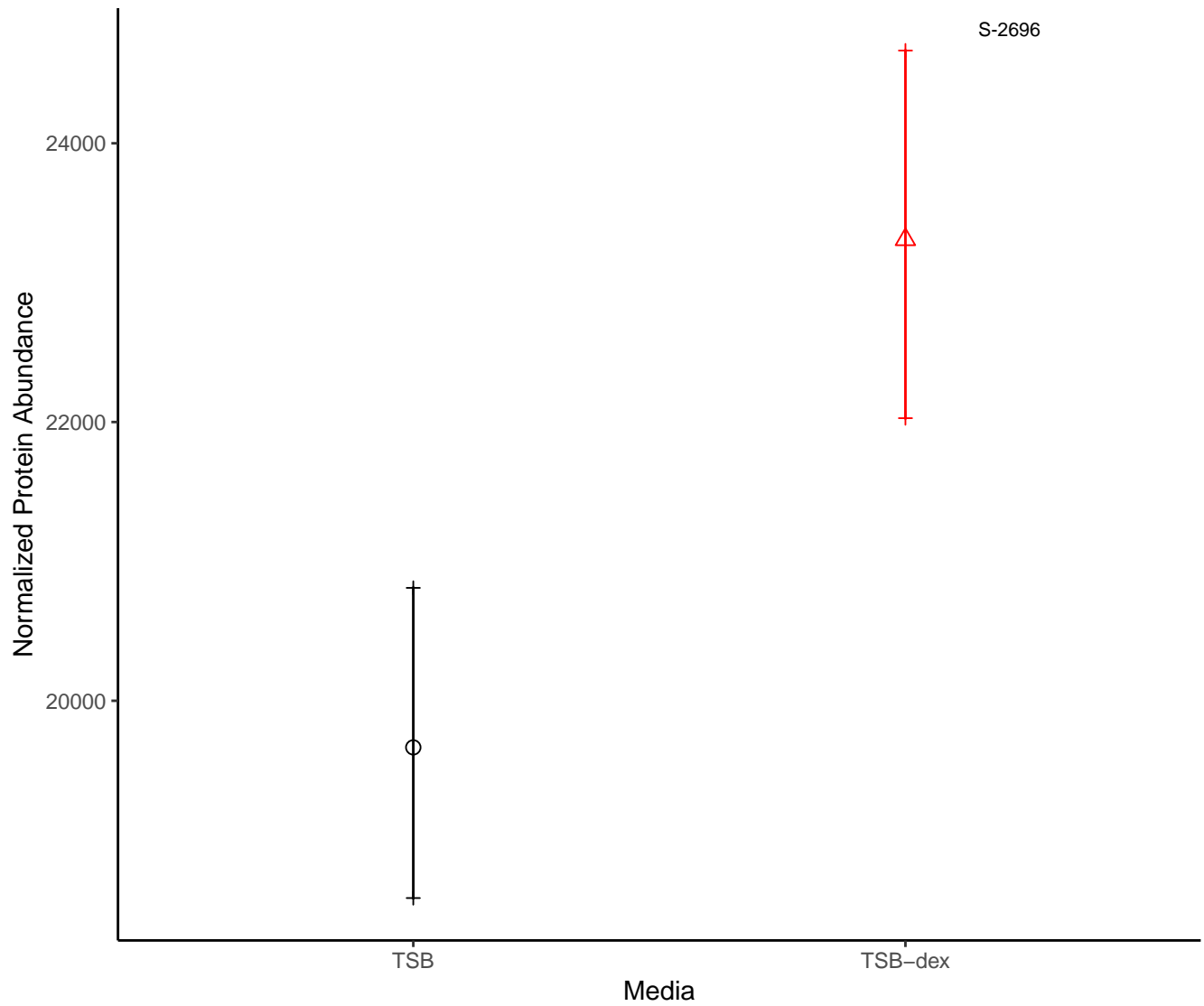
# KPYK\_STAAM



# KTHY\_STAAM



# LACA\_STAAM

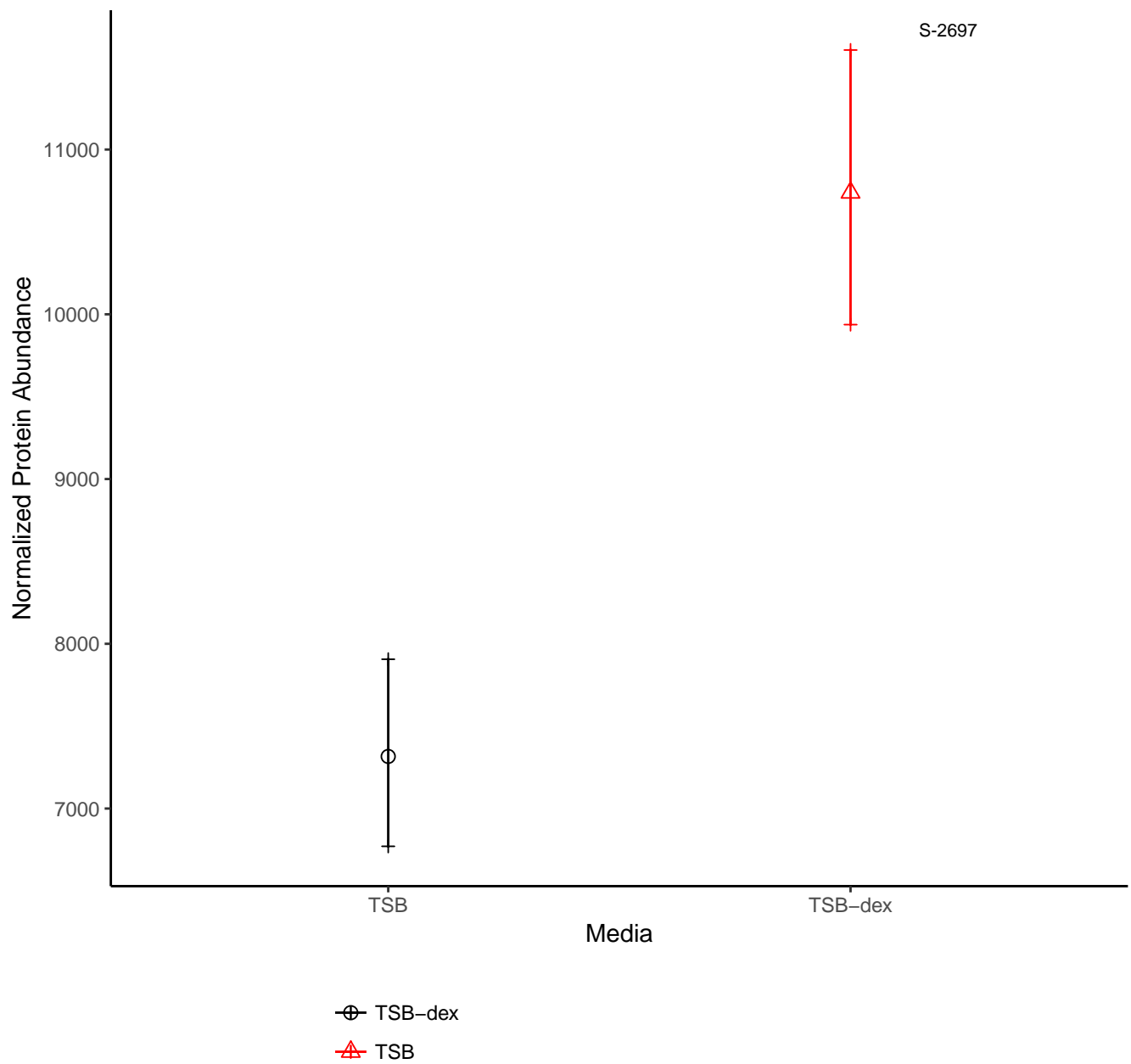


⊖ TSB-dex

⊖ TSB

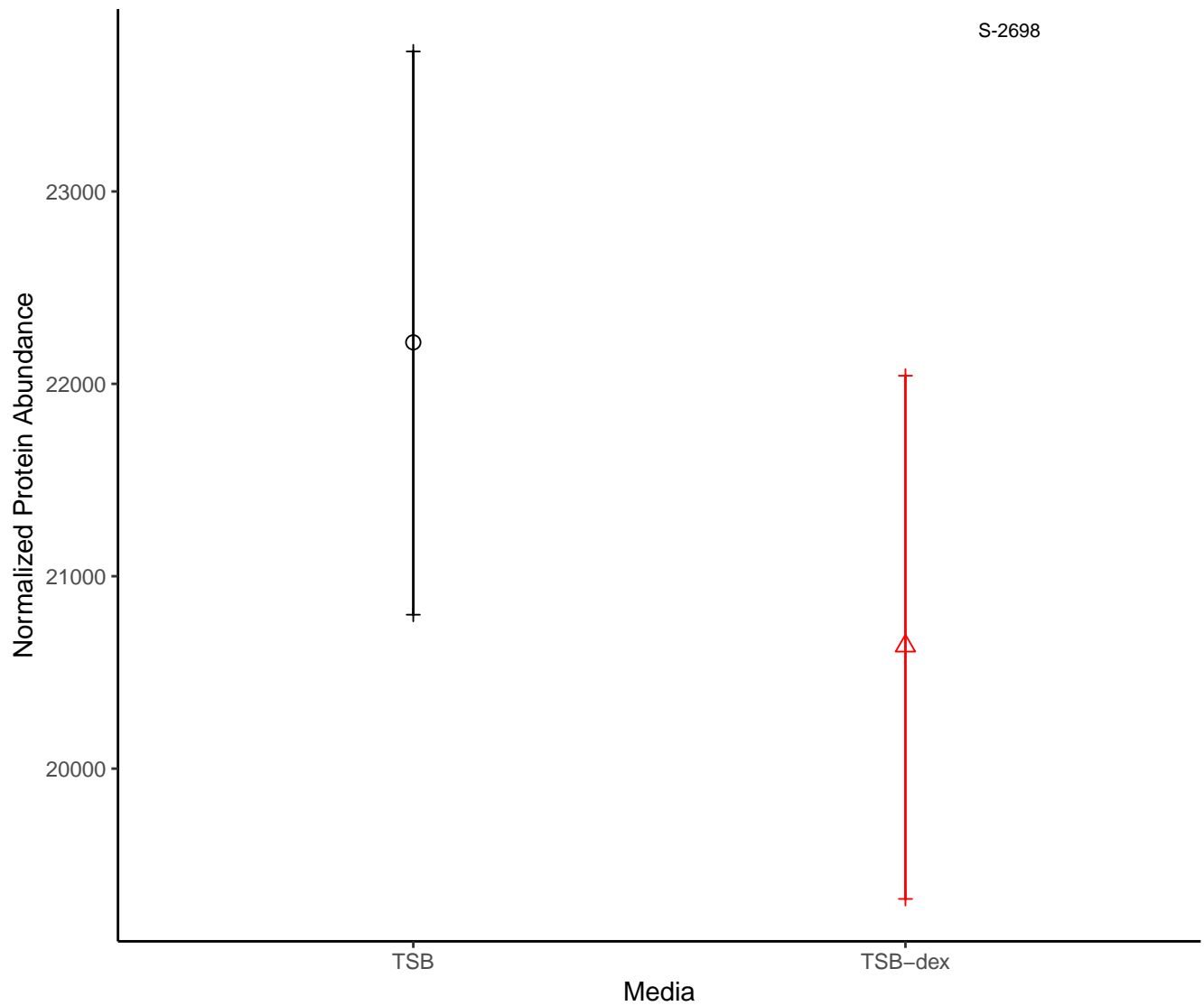


# LDH1\_STAAM



# LDH2\_STAAM

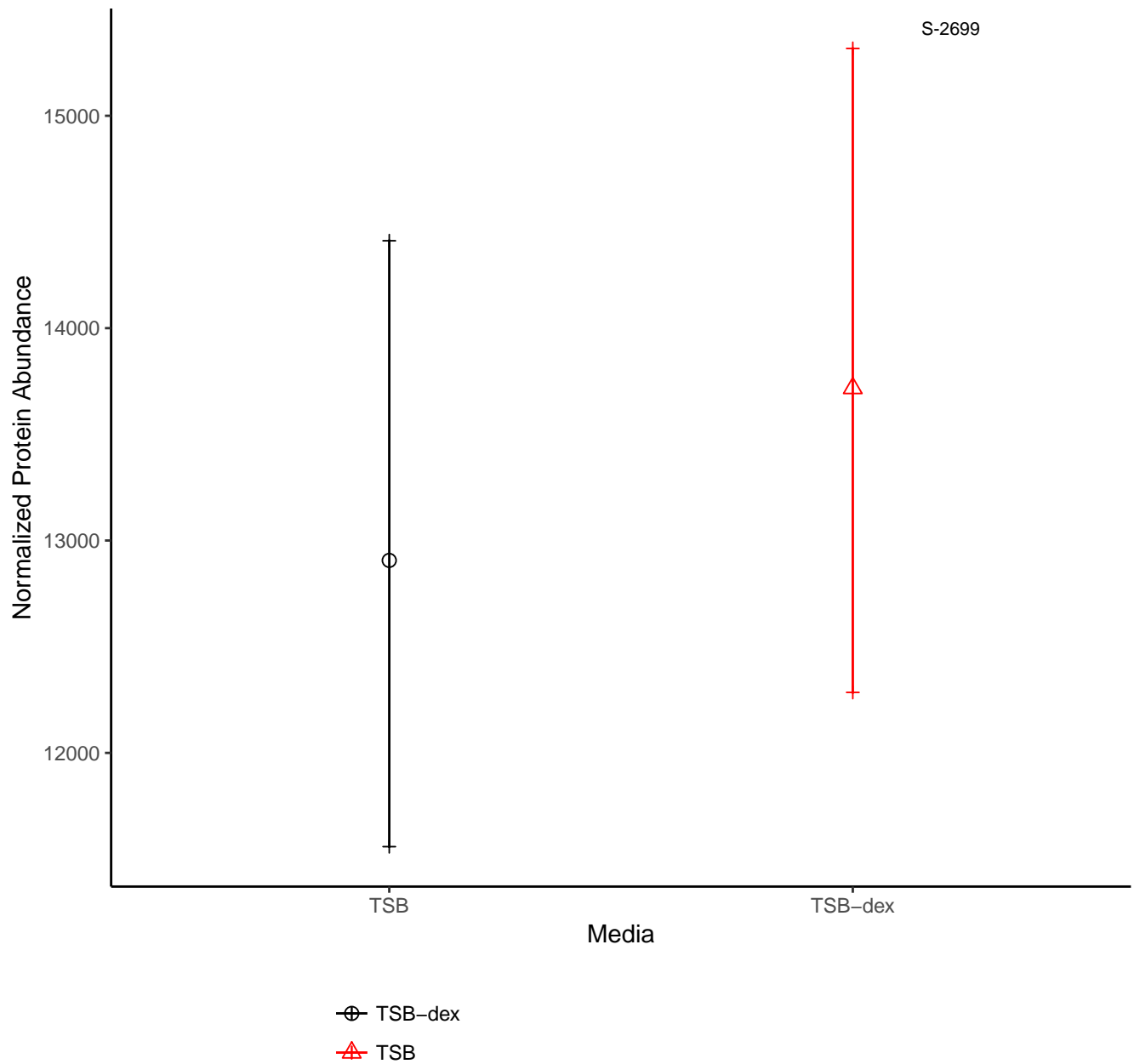
S-2698



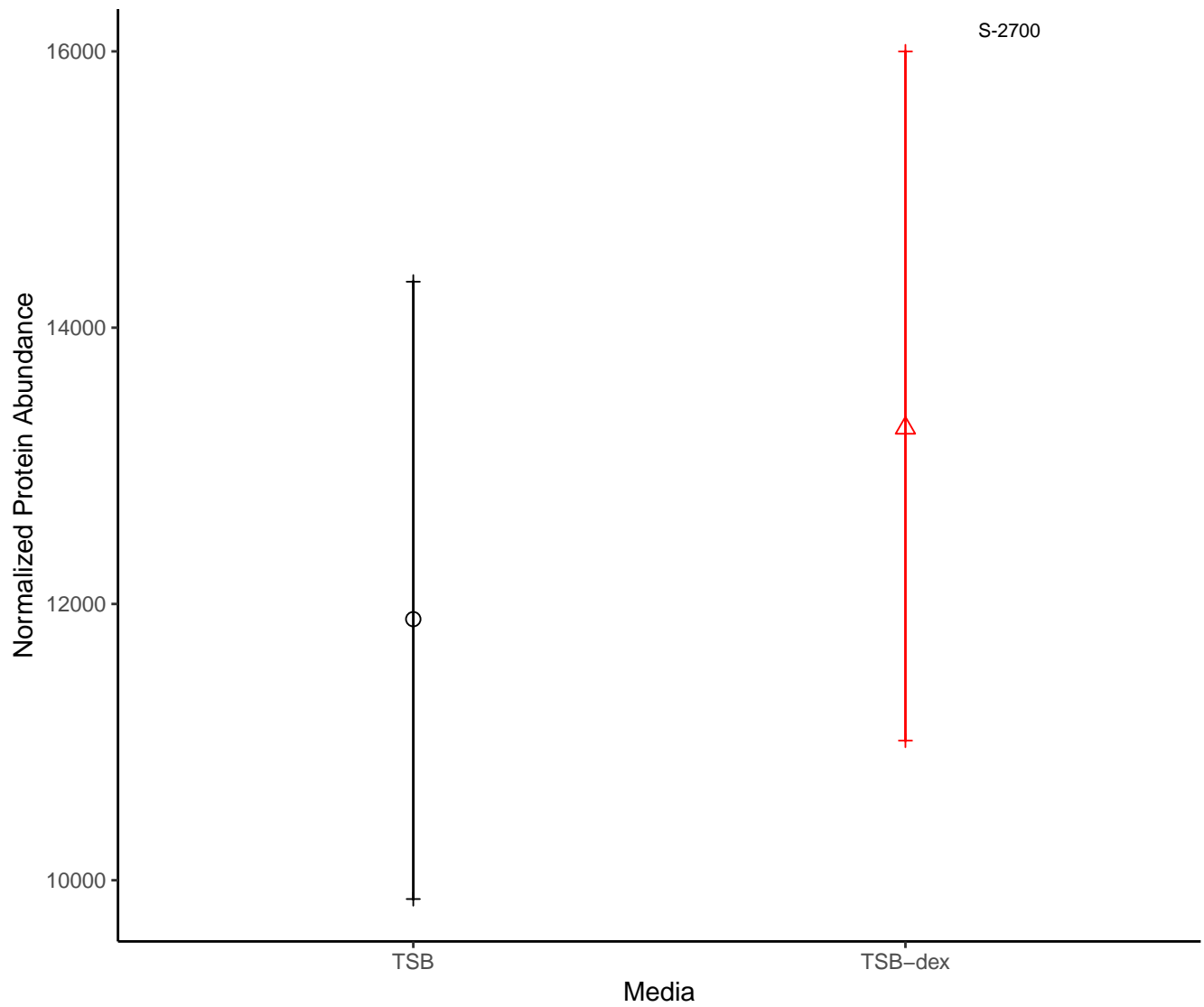
⊕ TSB-dex

△ TSB

# LDHD\_STAAM



# LEP\_STAAM

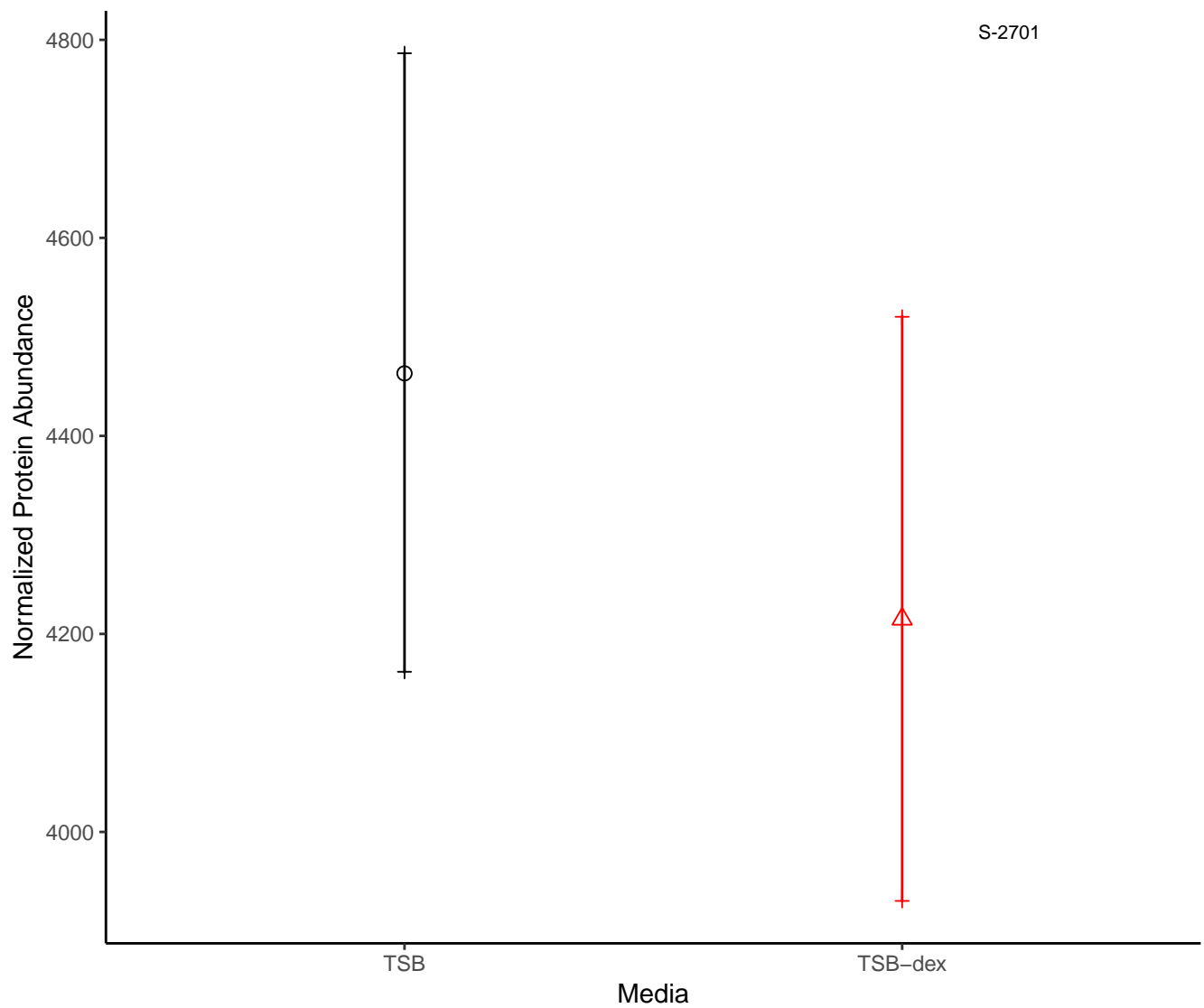


⊕ TSB-dex

△ TSB

# LEPA\_STAAM

S-2701

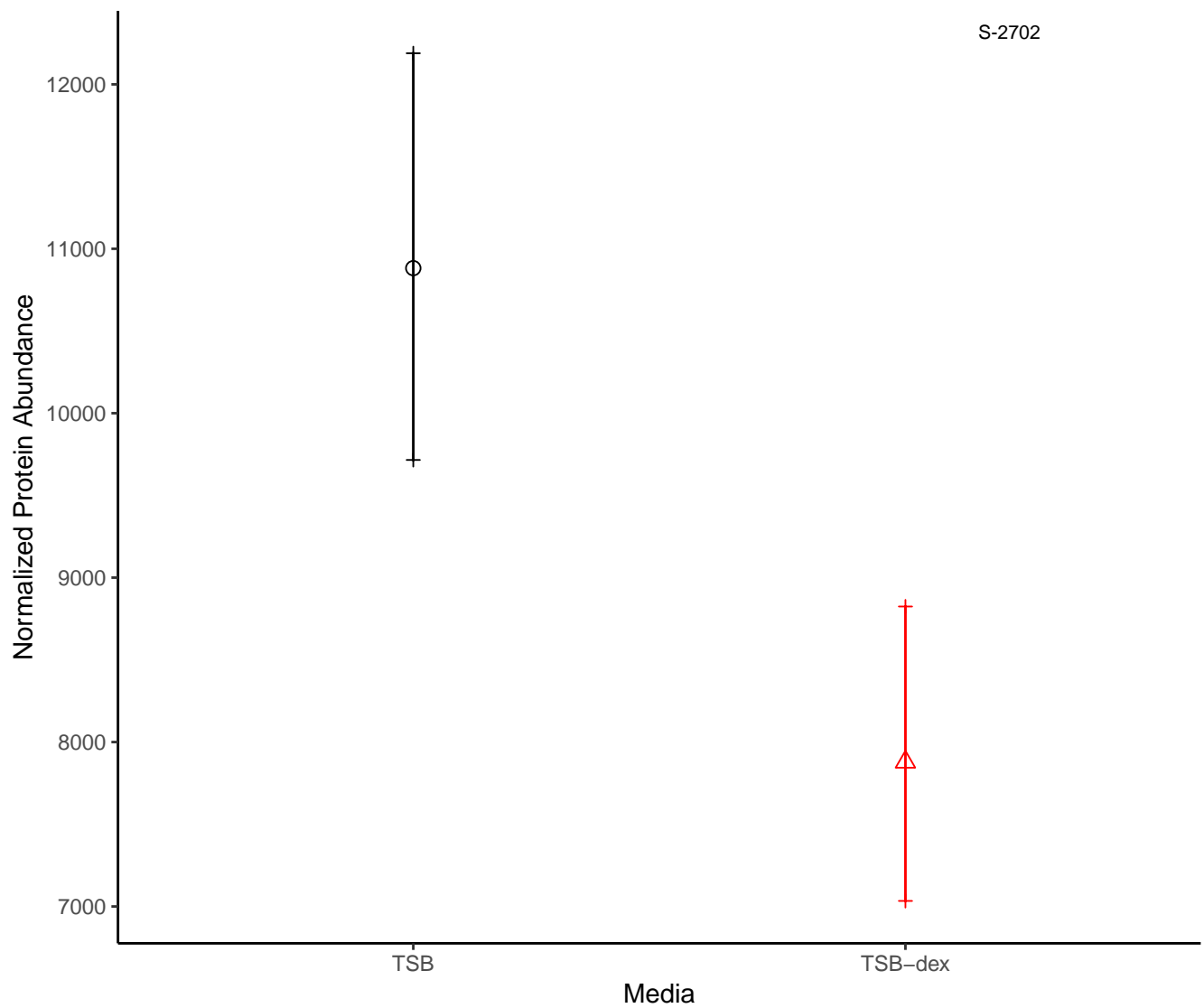


⊕ TSB-dex

△ TSB

# LEU1\_STAAM

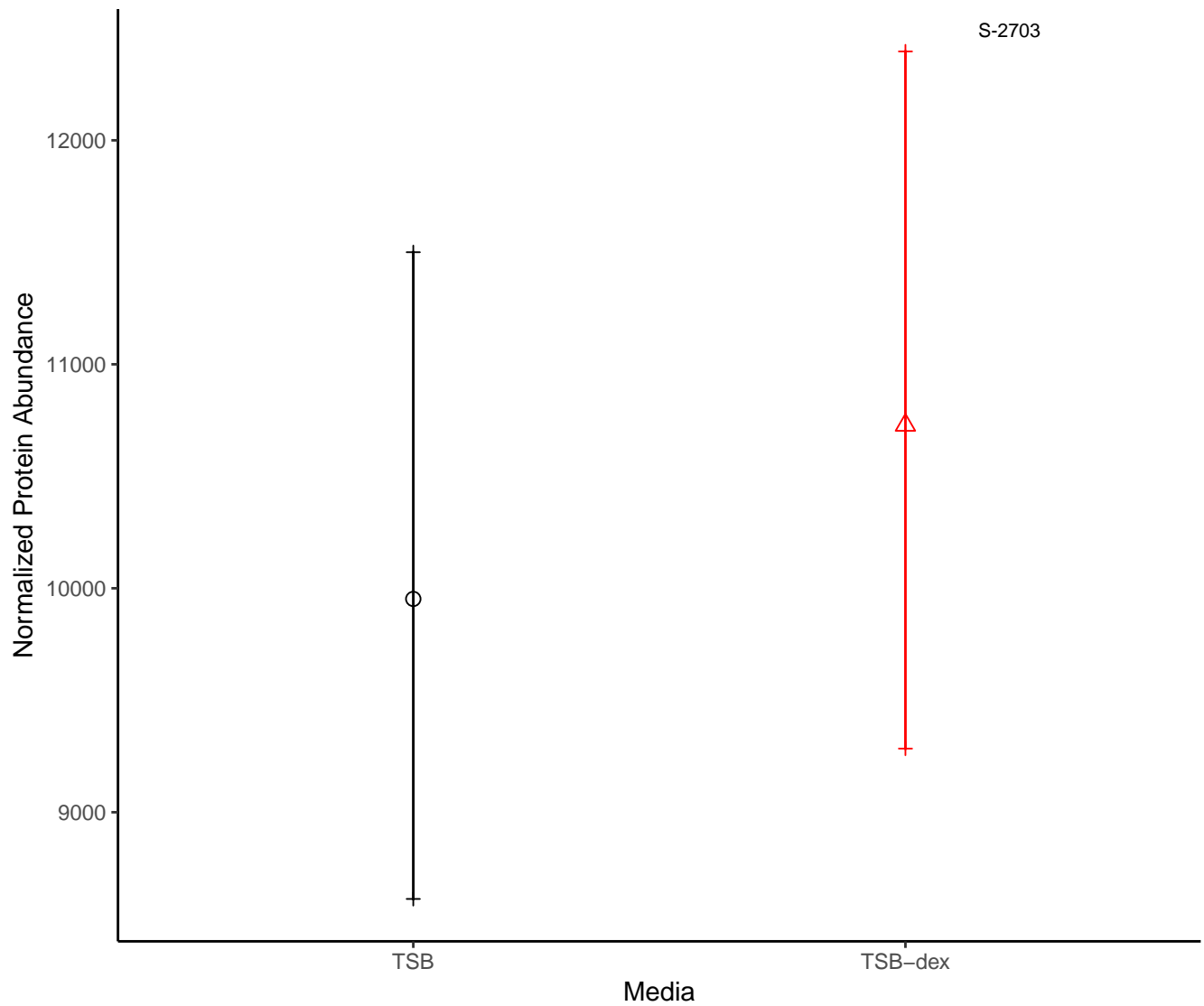
S-2702



⊖ TSB-dex

△ TSB

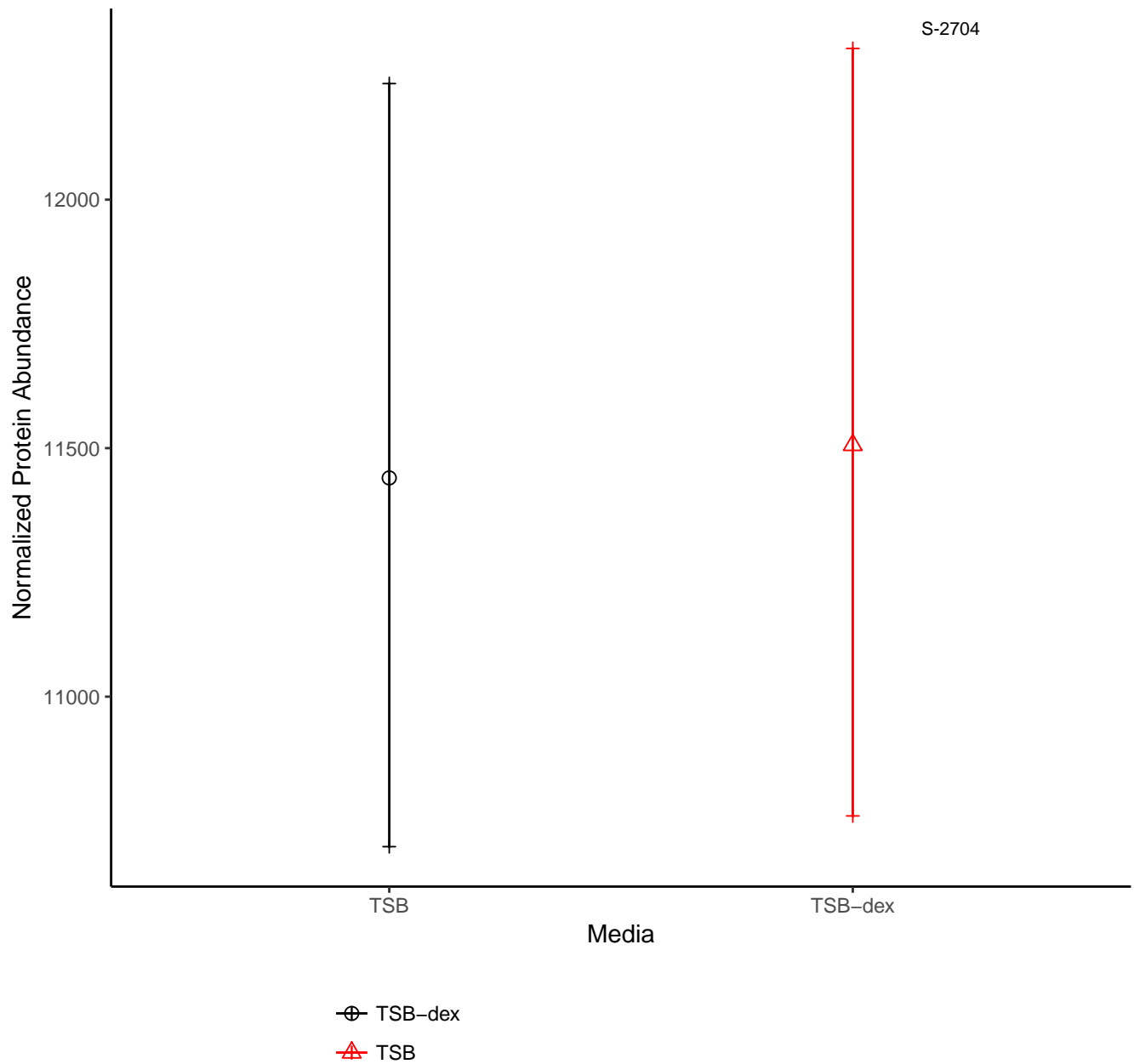
# LIPA\_STAAM



⊕ TSB-dex

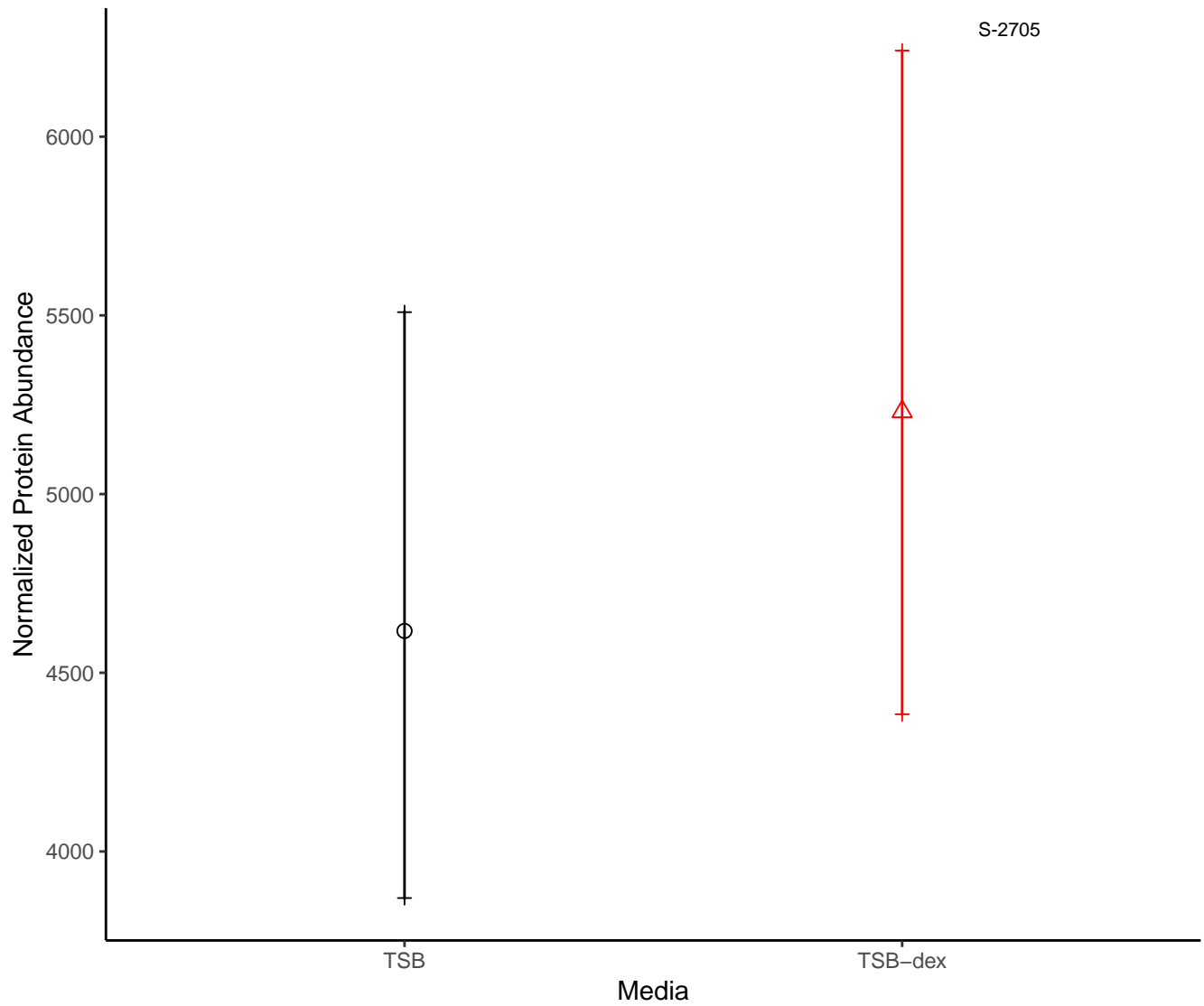
△ TSB

# LUXS\_STAAM





# LYTH\_STAAM

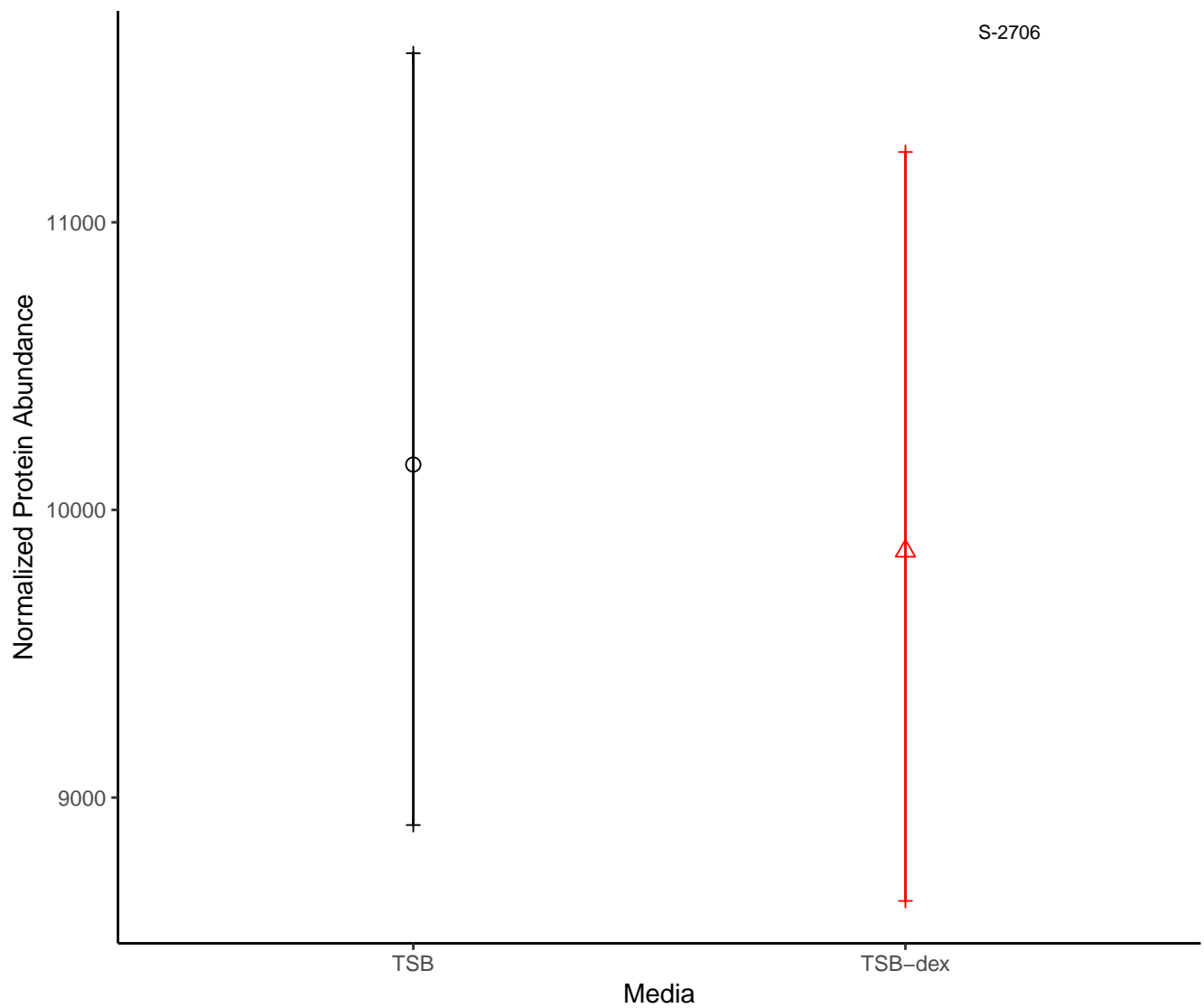


⊕ TSB-dex

△ TSB

# LYTN\_STAAM

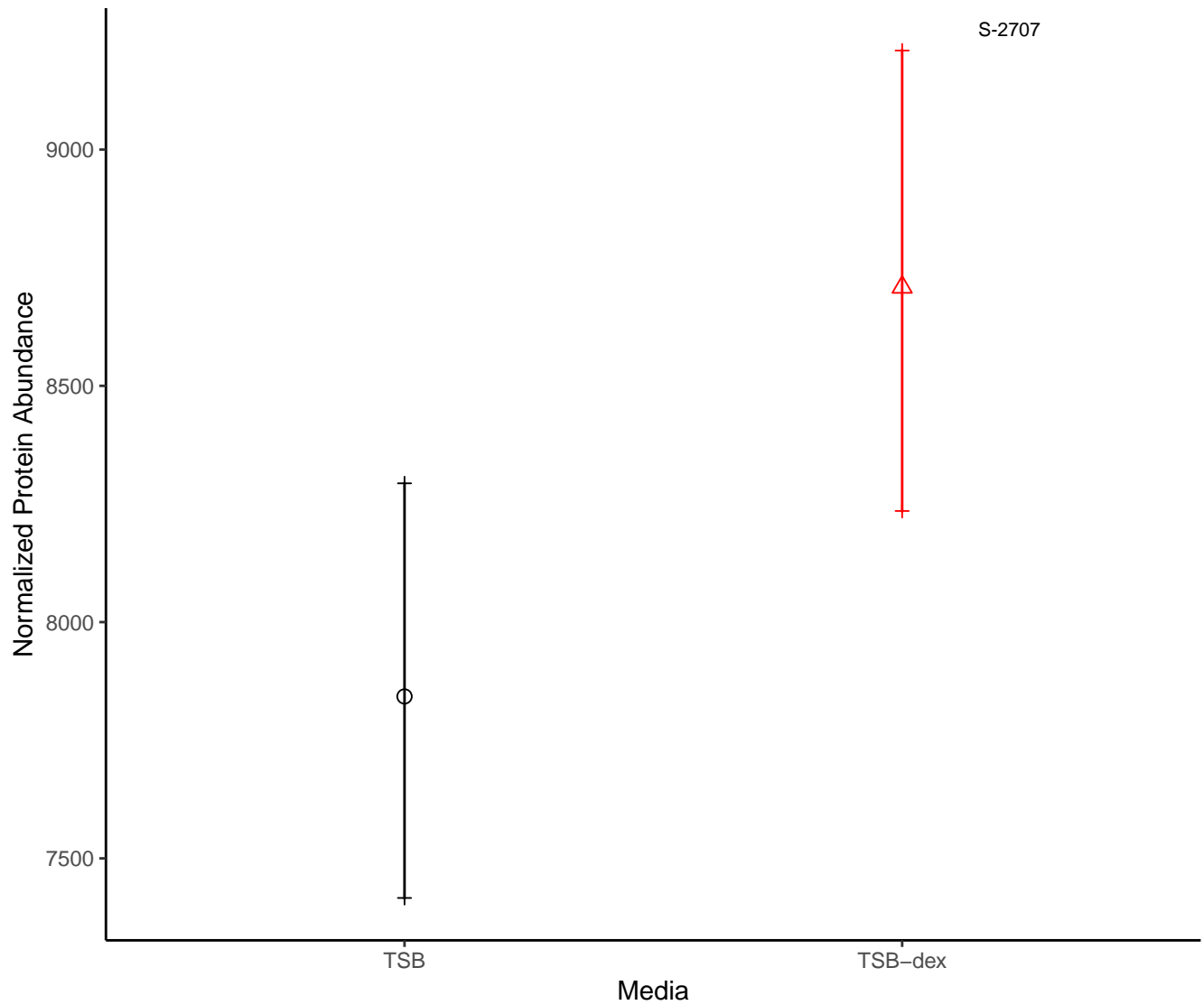
S-2706



⊕ TSB-dex

△ TSB

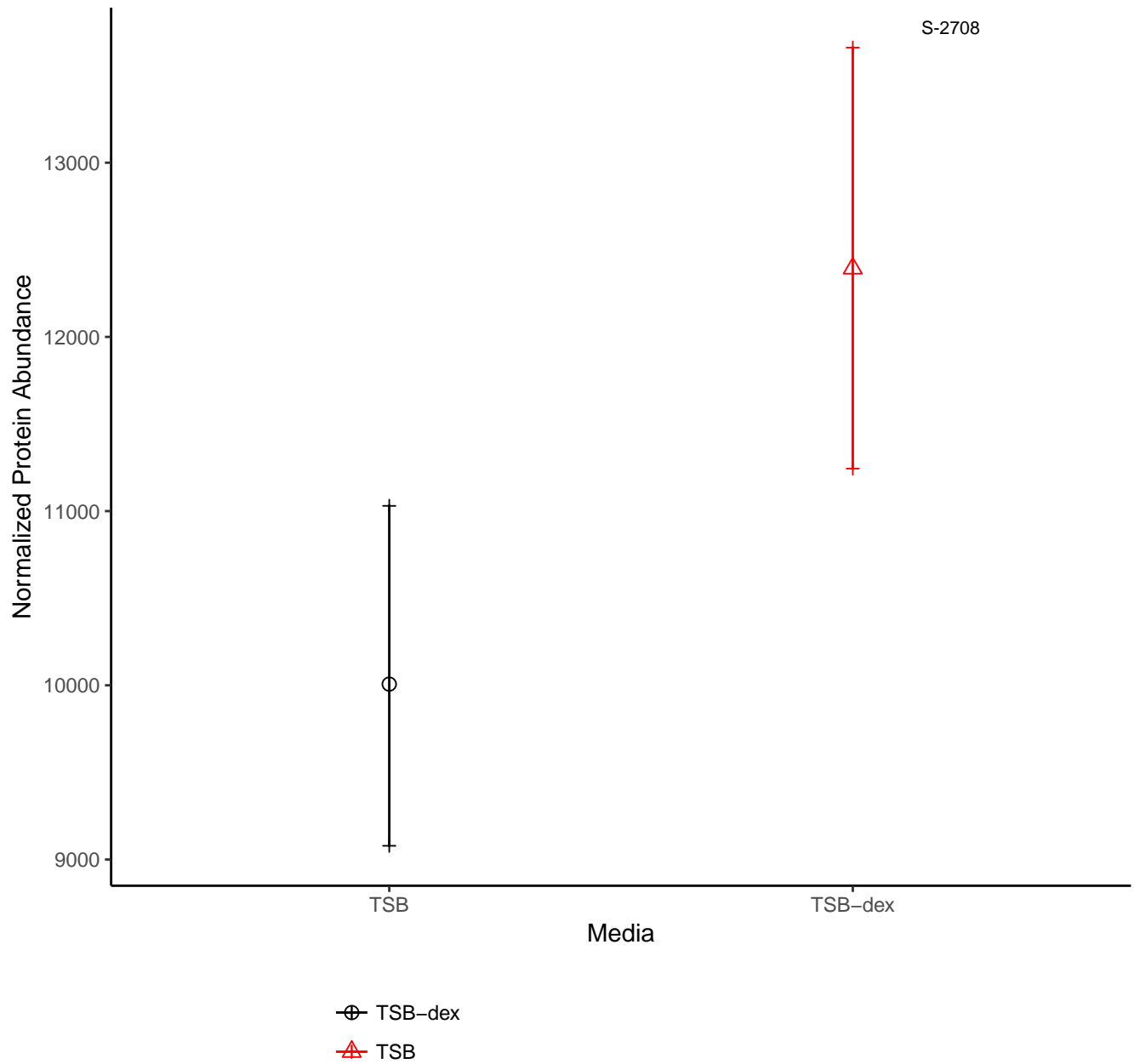
# MAP\_STAAM



⊕ TSB-dex

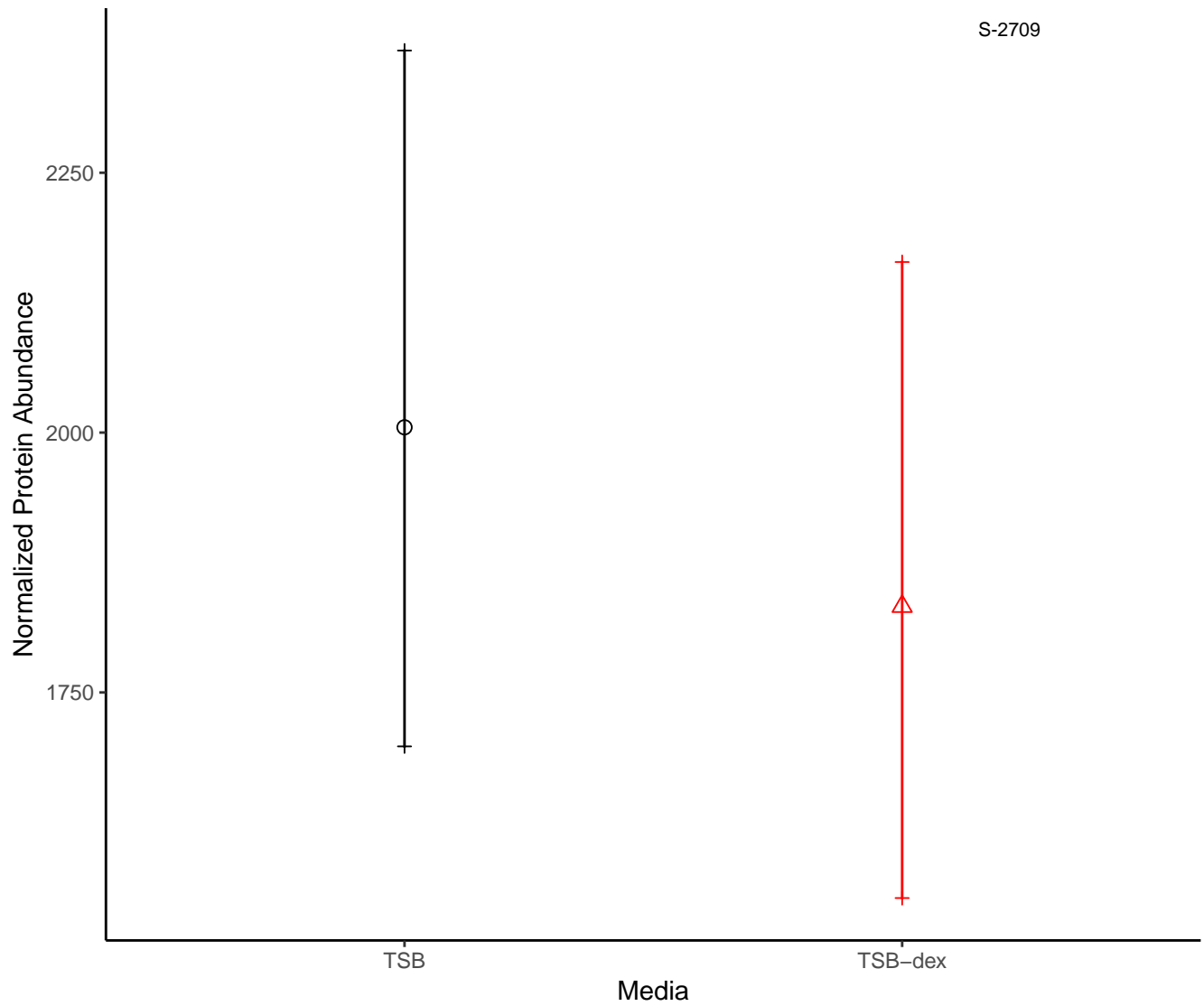
△ TSB

# MAP1\_STAAM



# MAZF\_STAAM

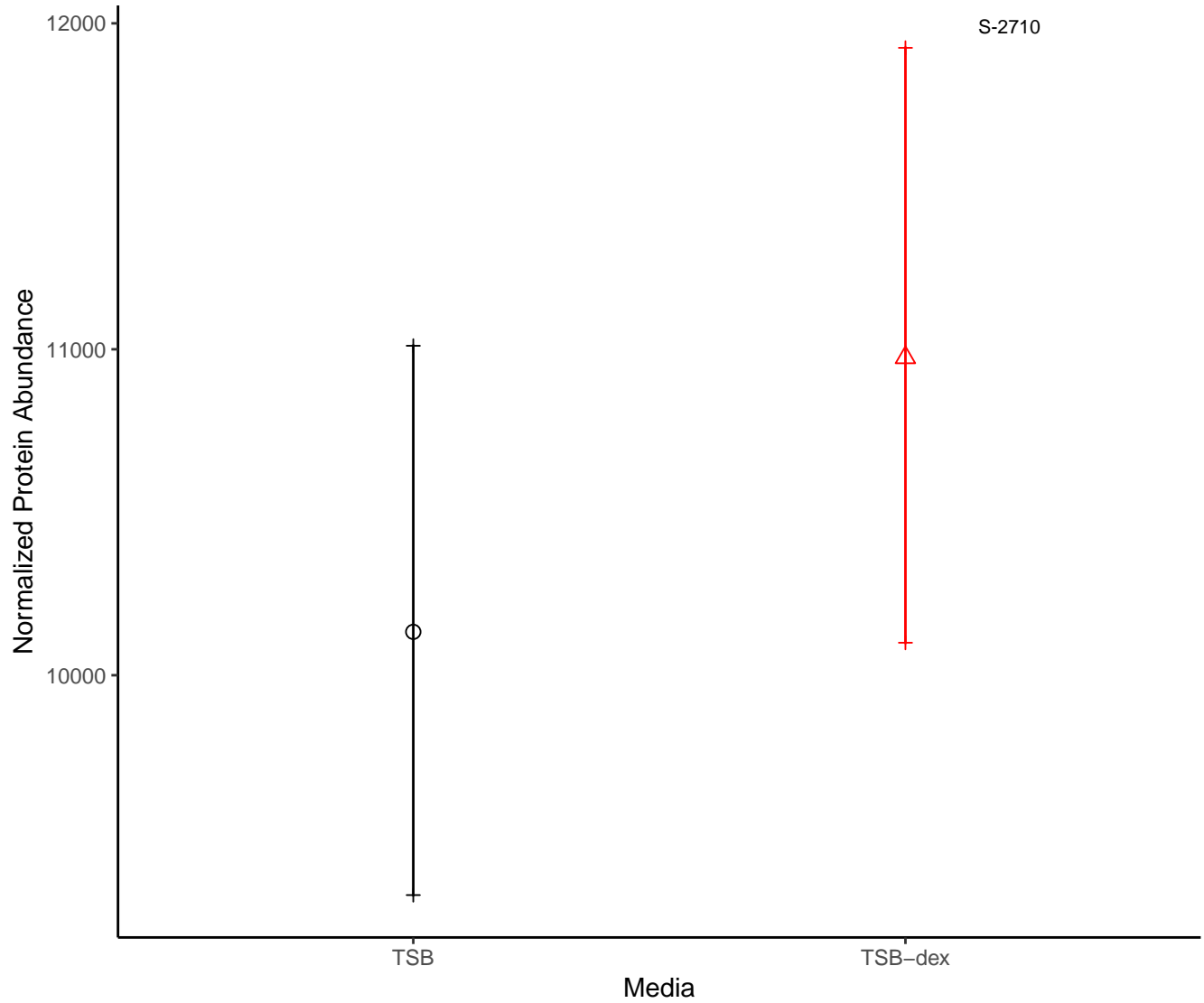
S-2709



⊕ TSB-dex

△ TSB

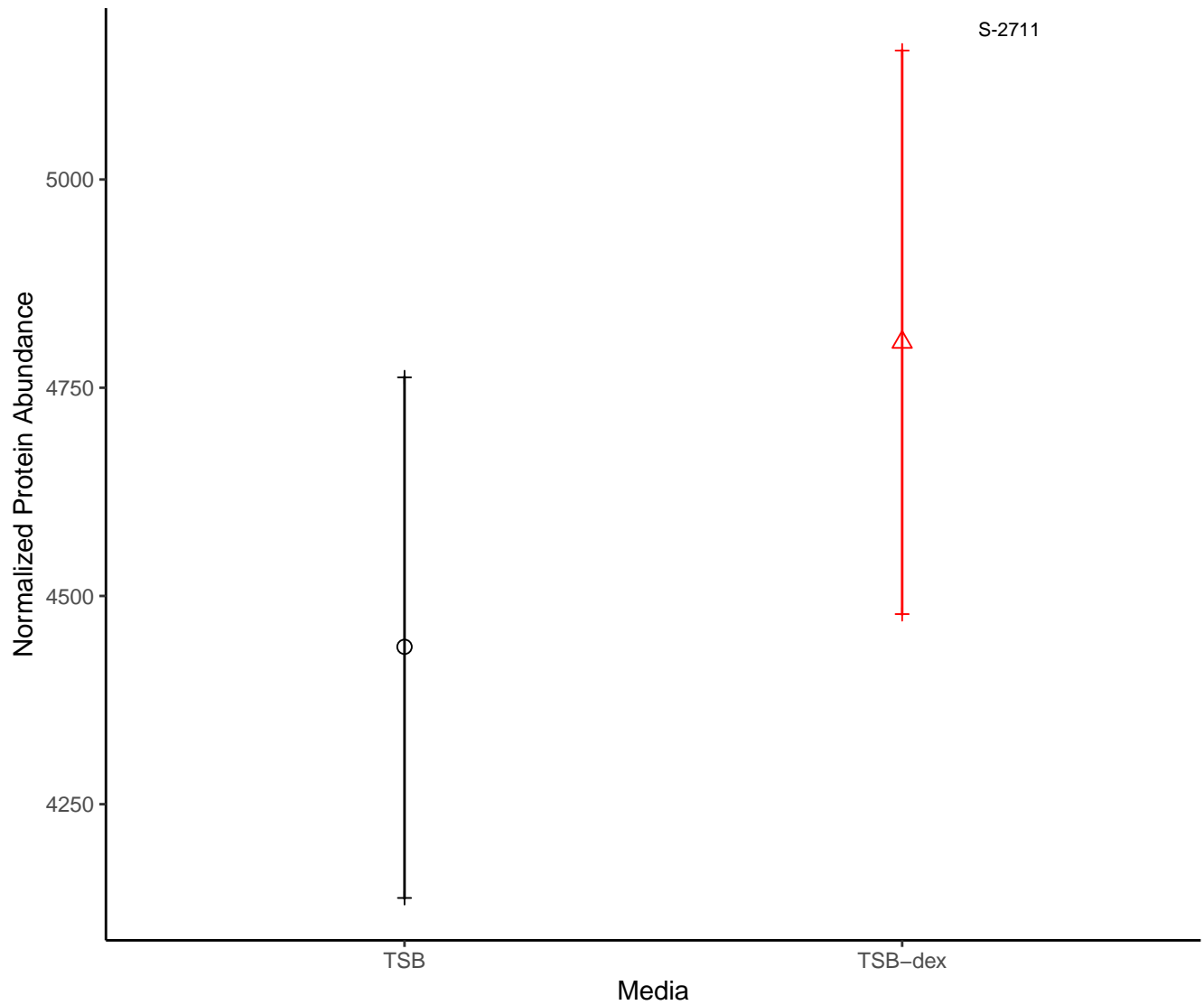
# MENB\_STAAM



⊖ TSB-dex

△ TSB

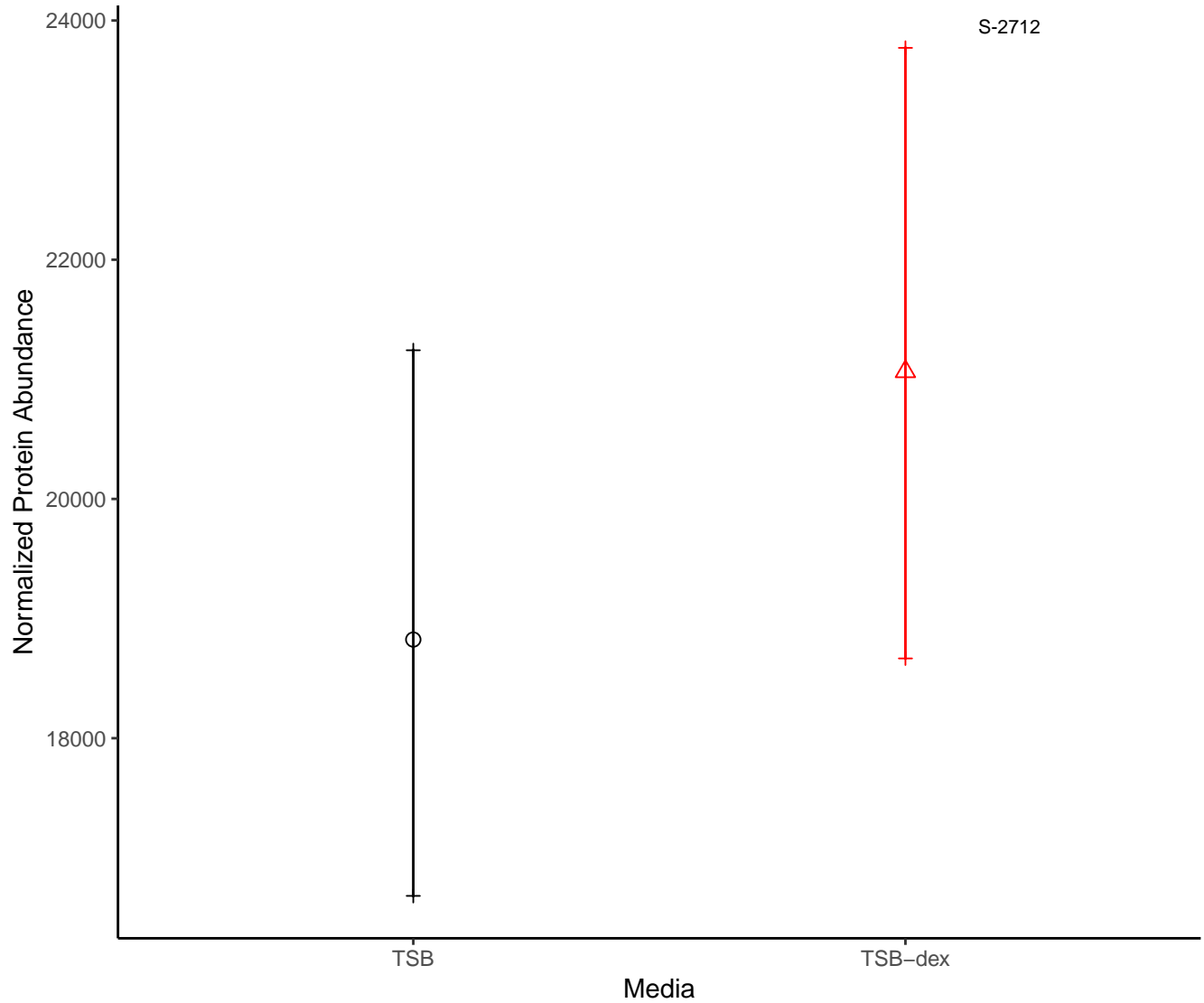
# MENG\_STAAM



⊕ TSB-dex

△ TSB

# METK\_STAAM

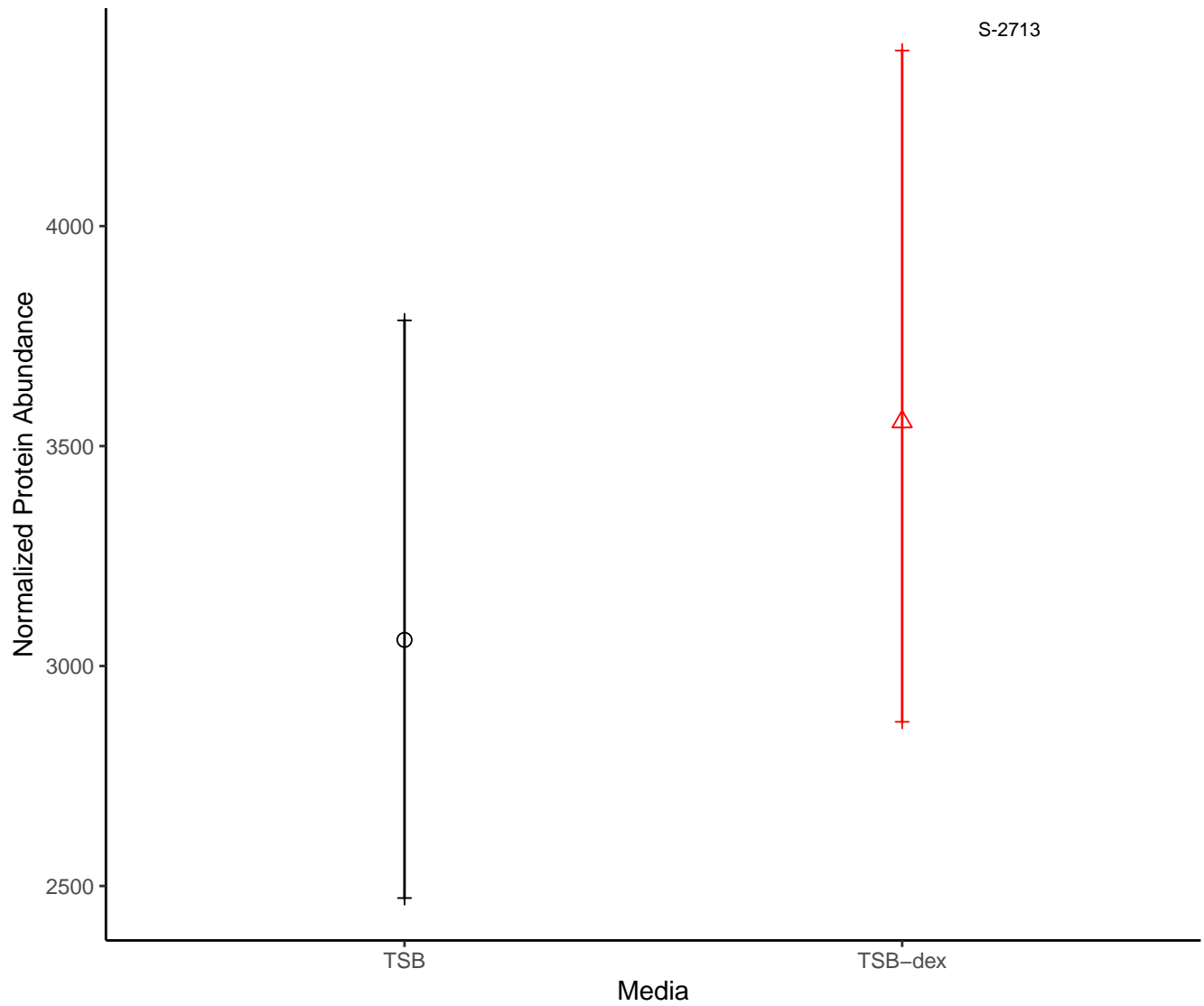


⊖ TSB-dex

△ TSB



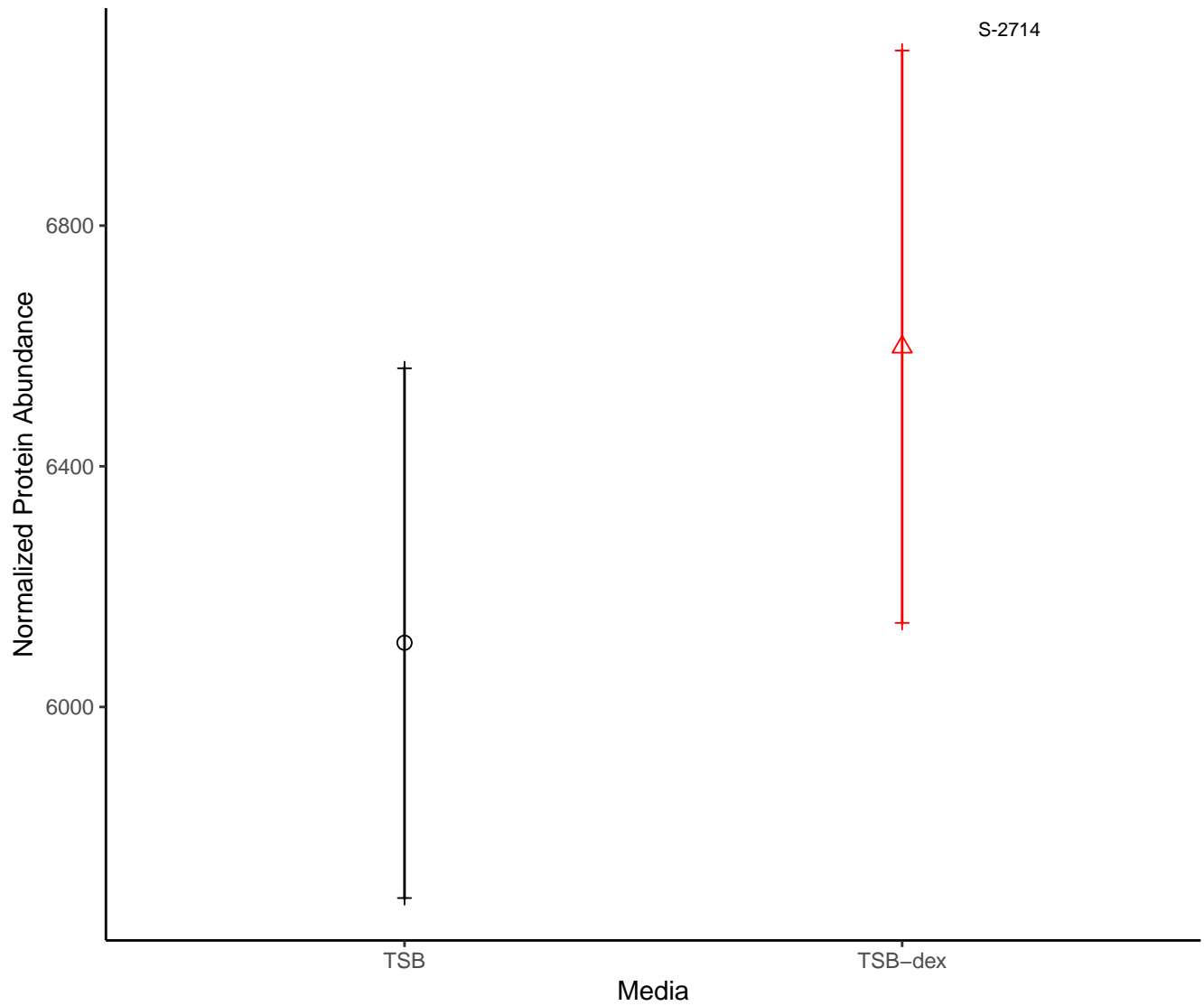
# METN2\_STAAM



⊕ TSB-dex

△ TSB

# MGRA\_STAAM

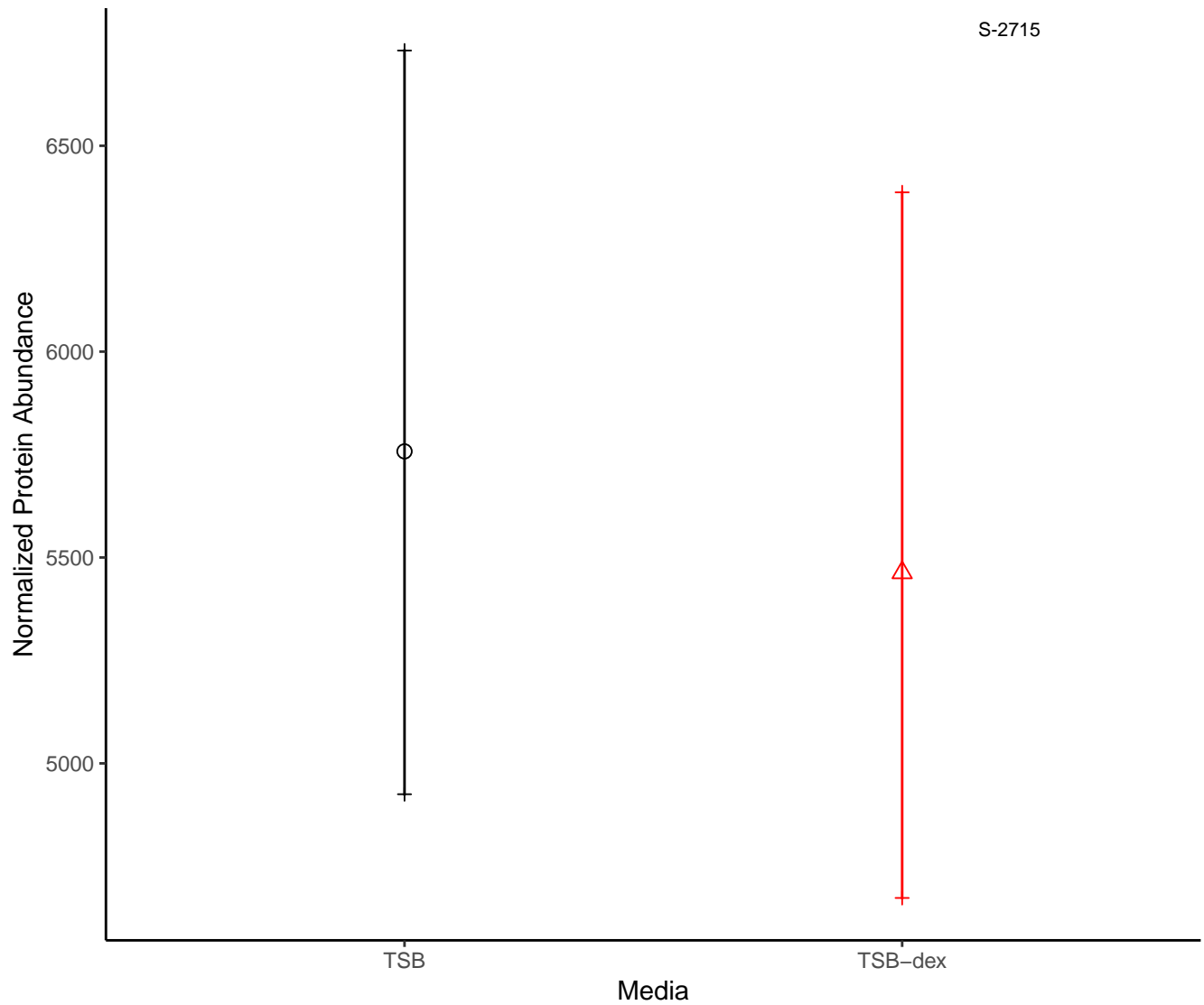


⊕ TSB-dex

△ TSB

# MIAB\_STAAM

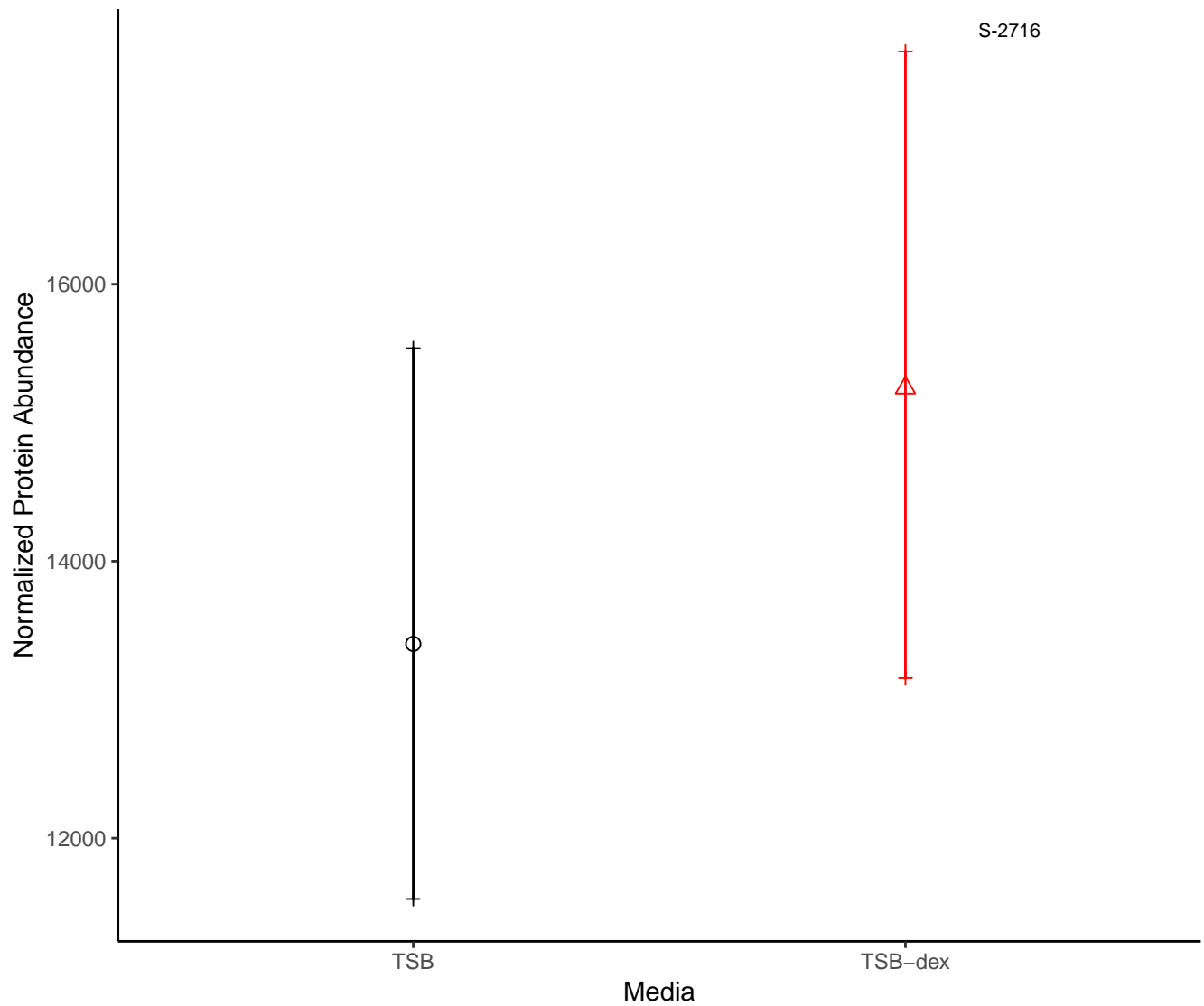
S-2715



⊕ TSB-dex

△ TSB

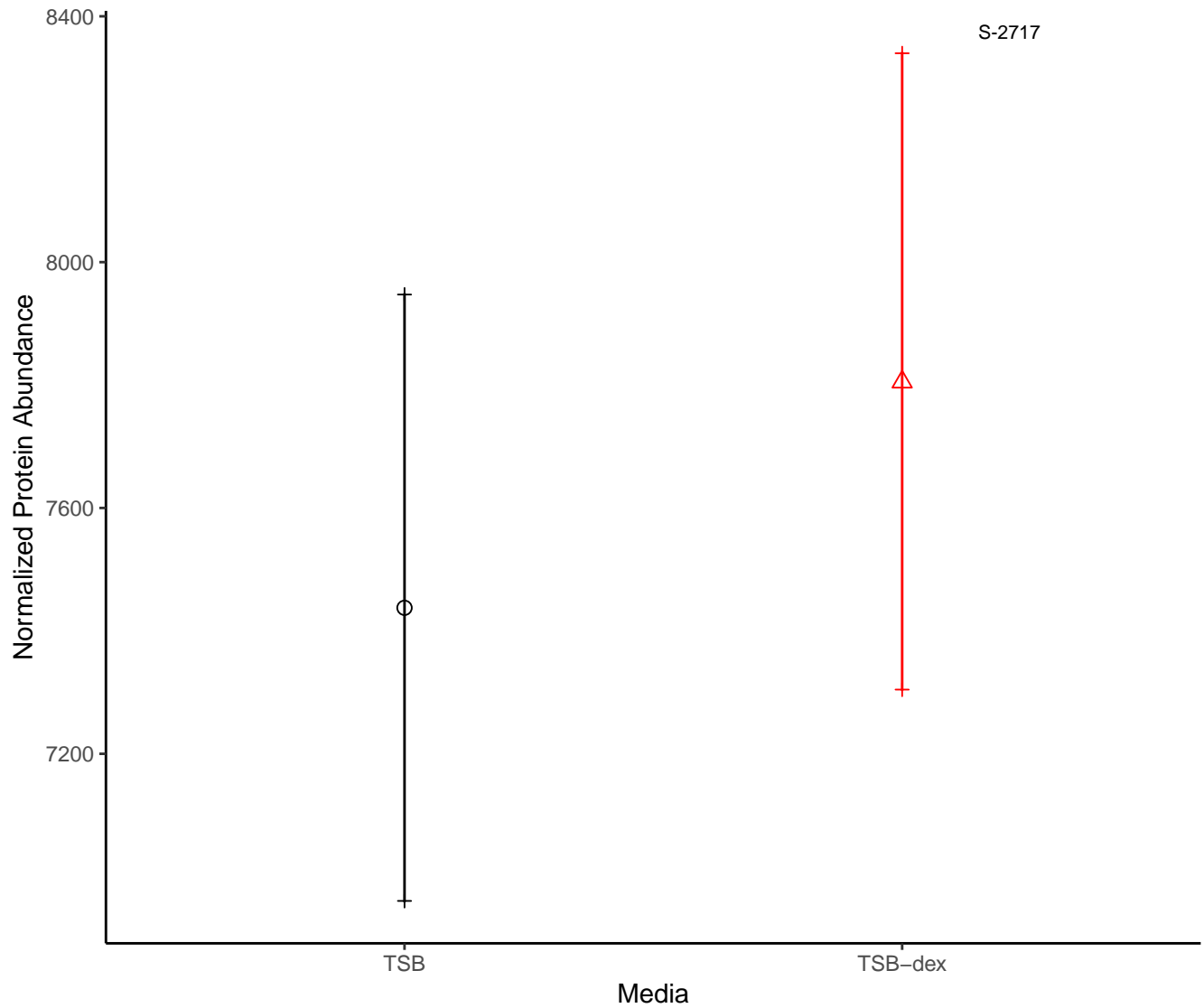
# MNME\_STAAM



⊖ TSB-dex

△ TSB

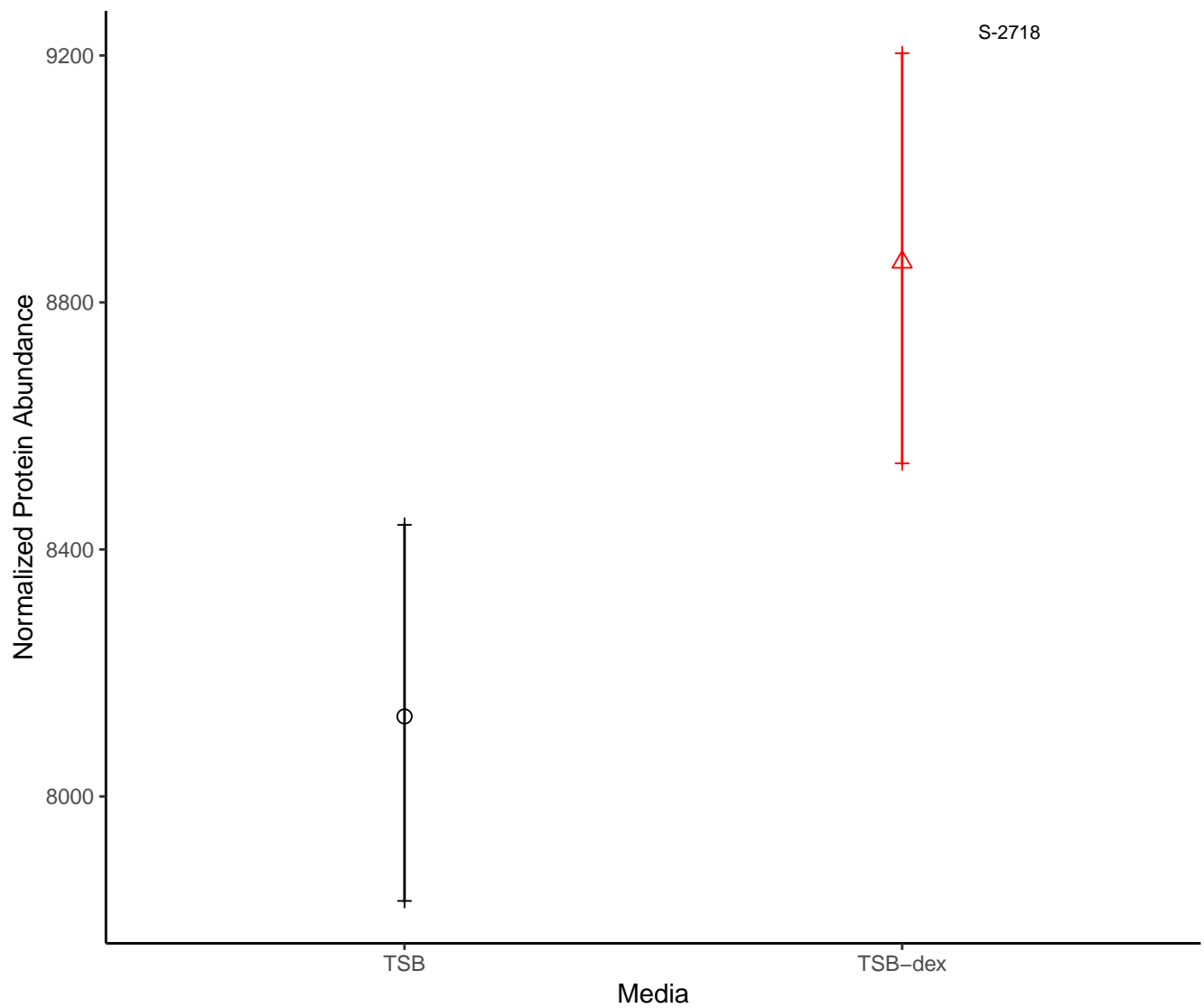
# MNMG\_STAAM



⊕ TSB-dex

△ TSB

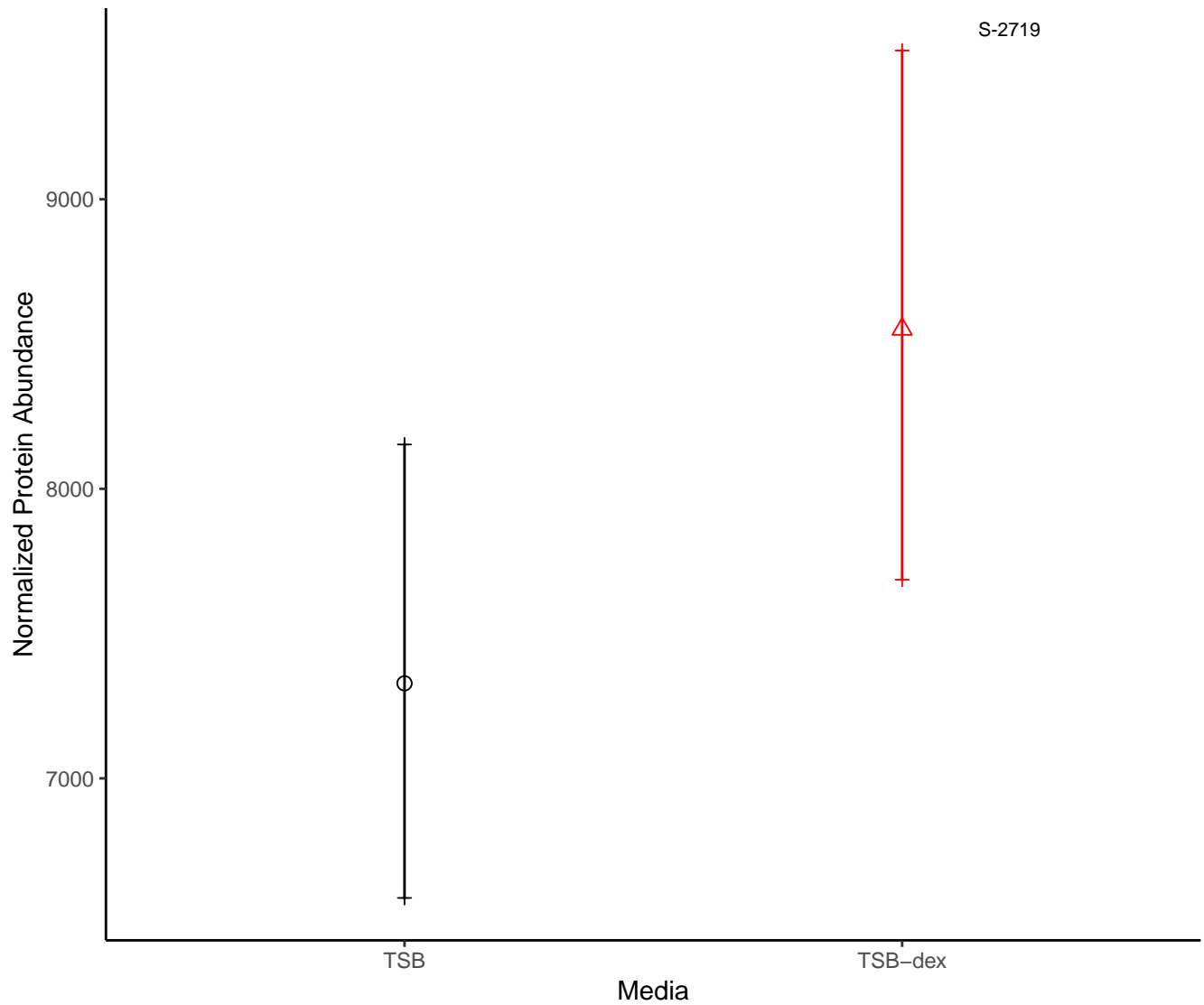
# MOAC\_STAAM



⊕ TSB-dex

△ TSB

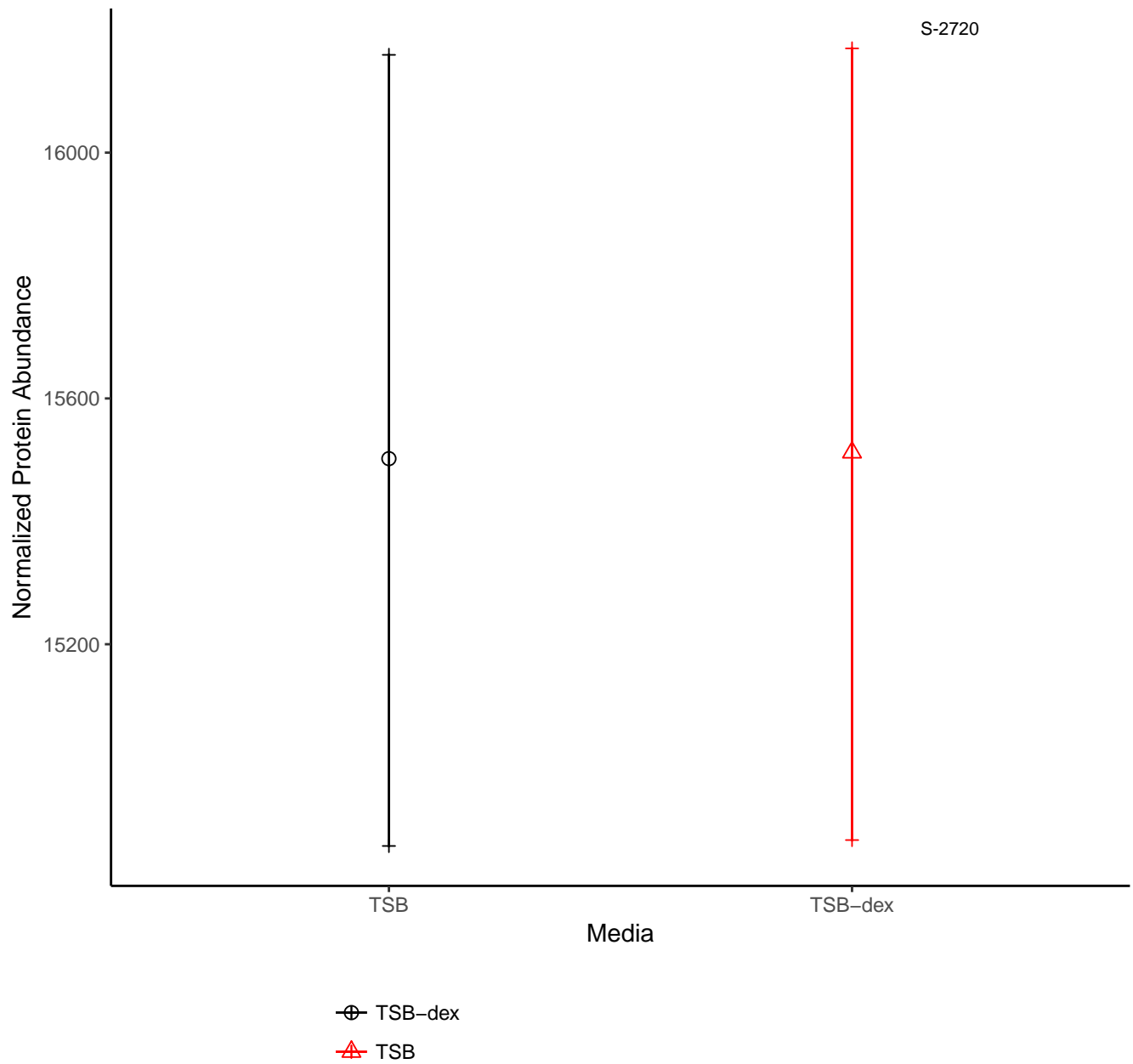
# MOEA\_STAAM



⊕ TSB-dex

△ TSB

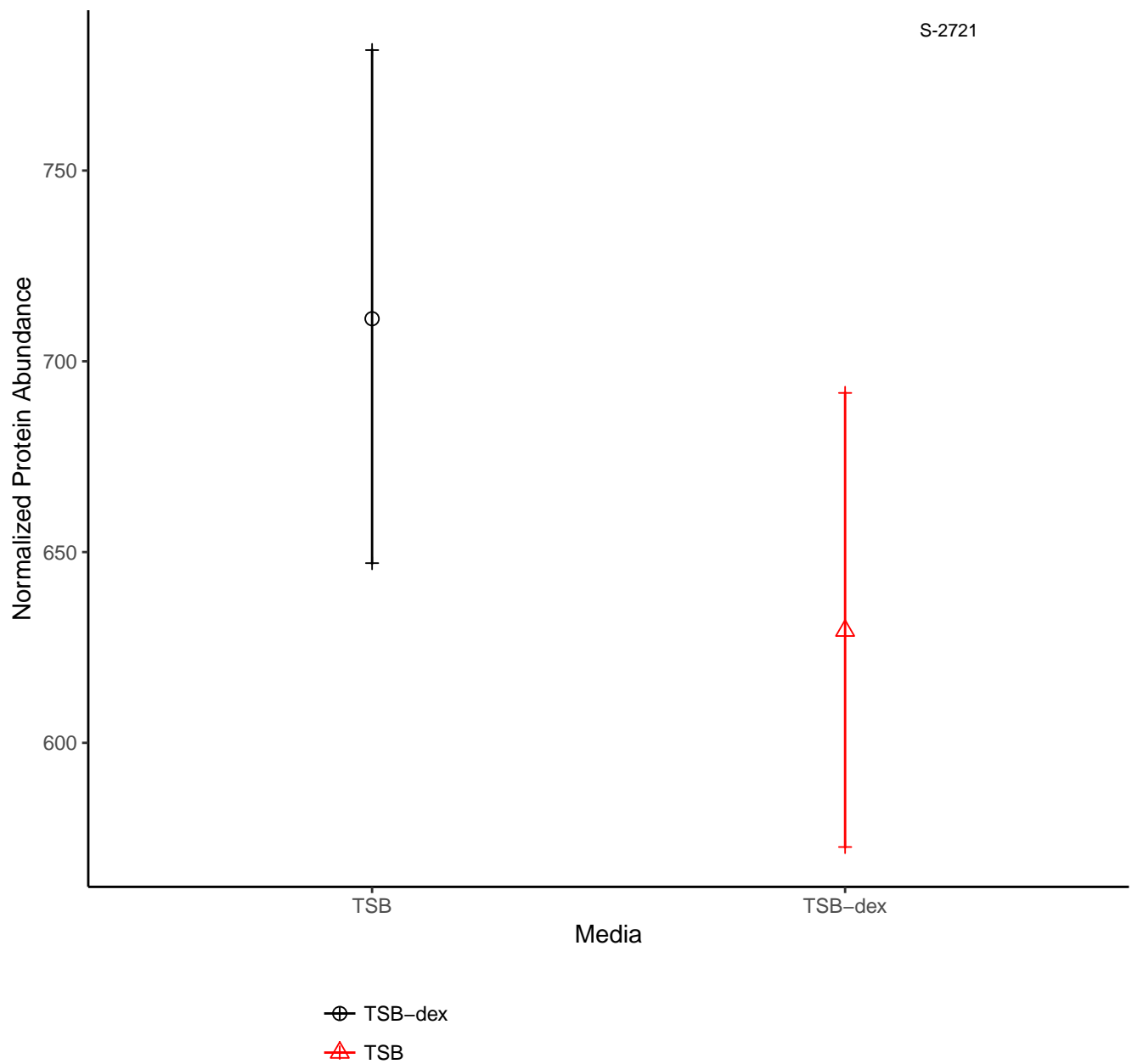
# MQO2\_STAAM



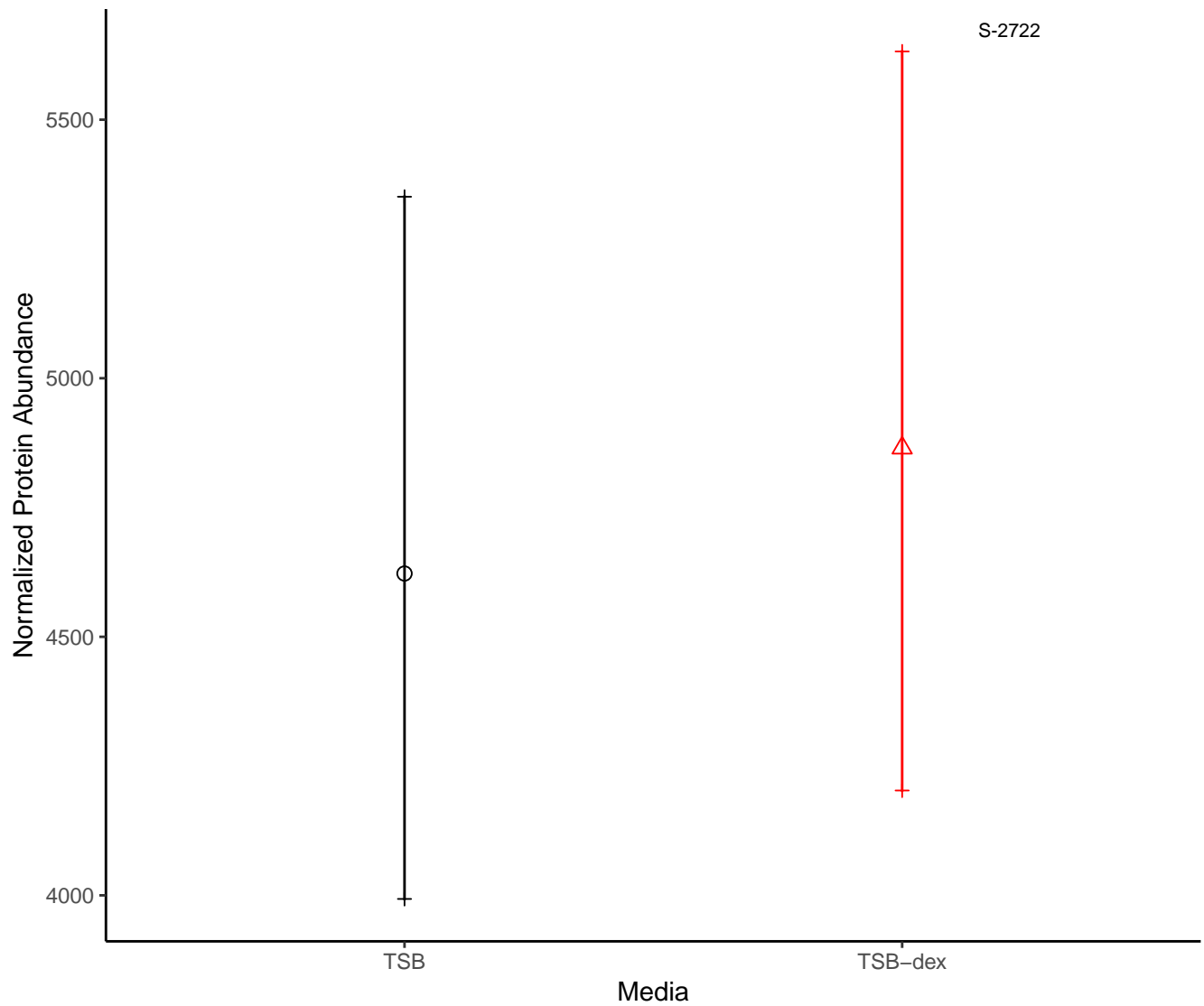


# MSRA1\_STAAM

S-2721



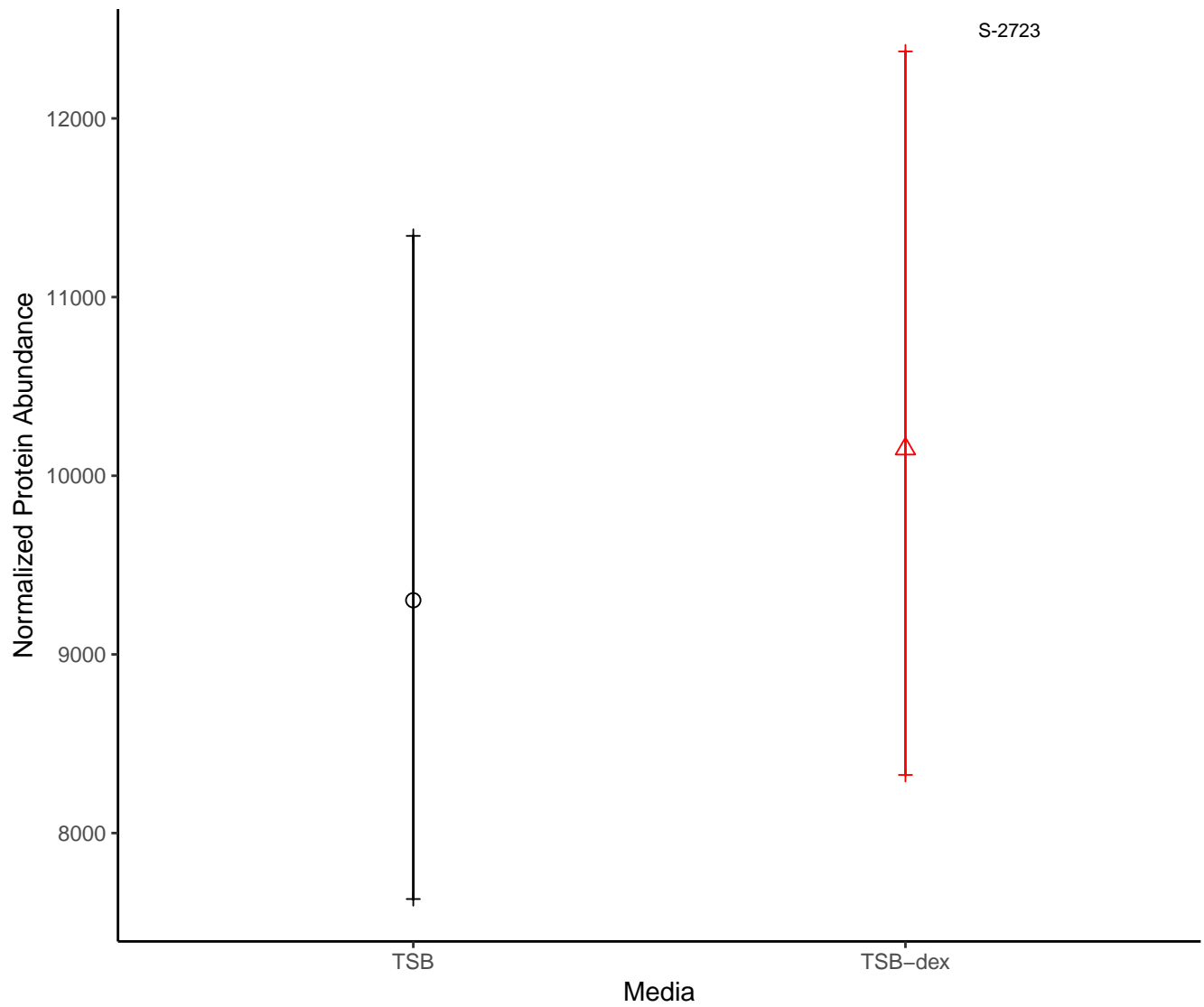
# MSRA2\_STAAM



⊕ TSB-dex

△ TSB

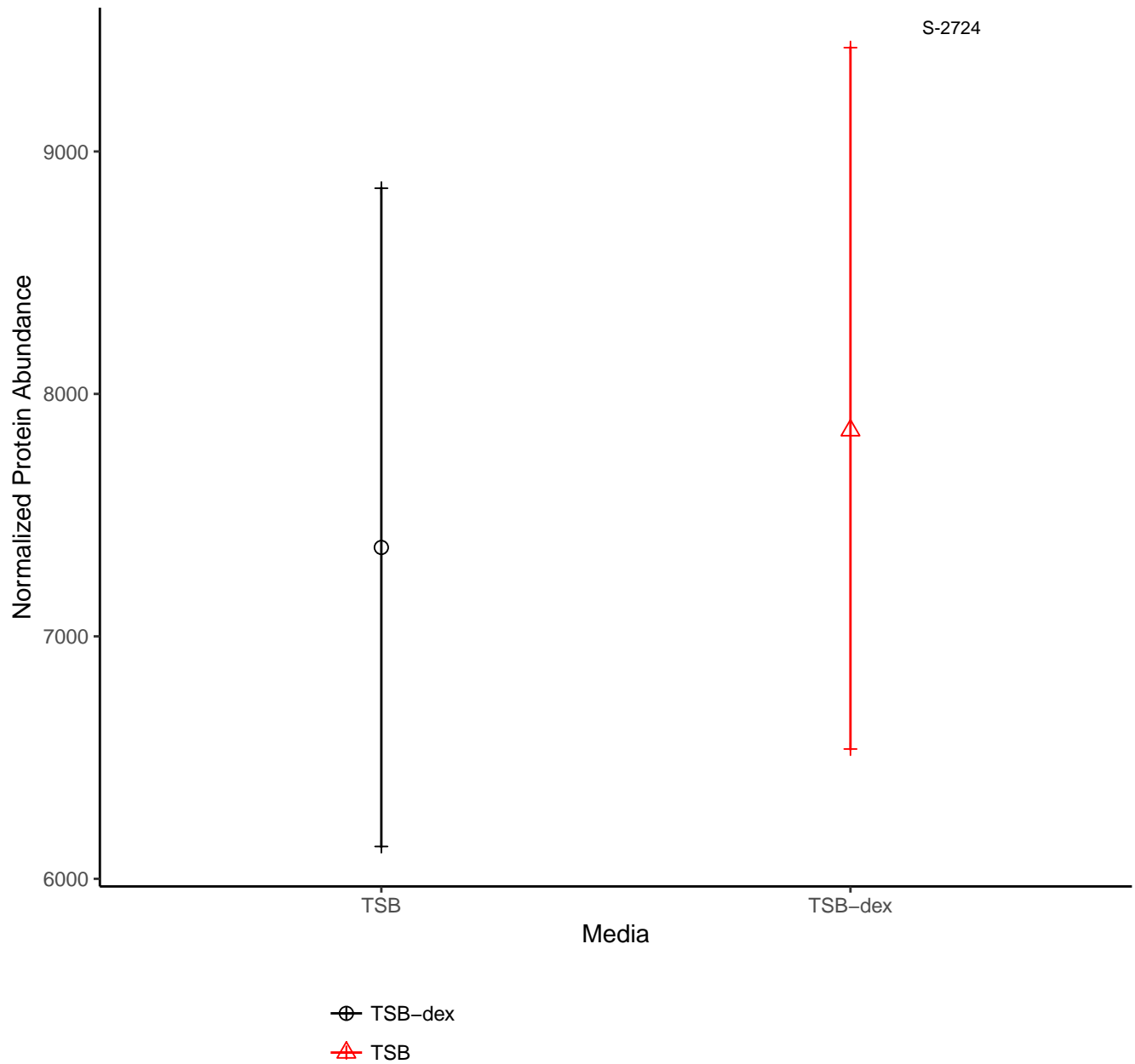
# MSRB\_STAAM



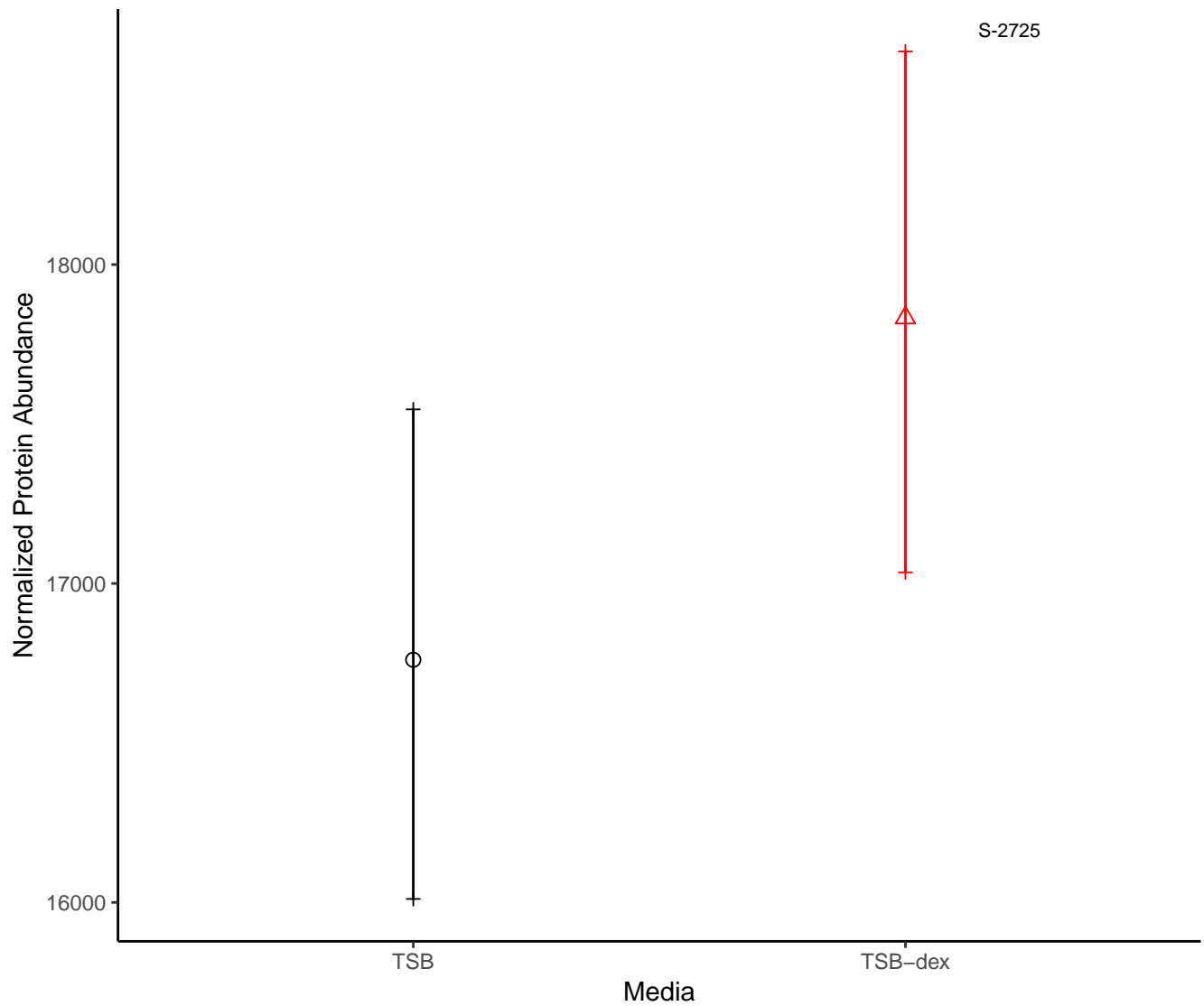
⊕ TSB-dex

△ TSB

# MTLD\_STAAM



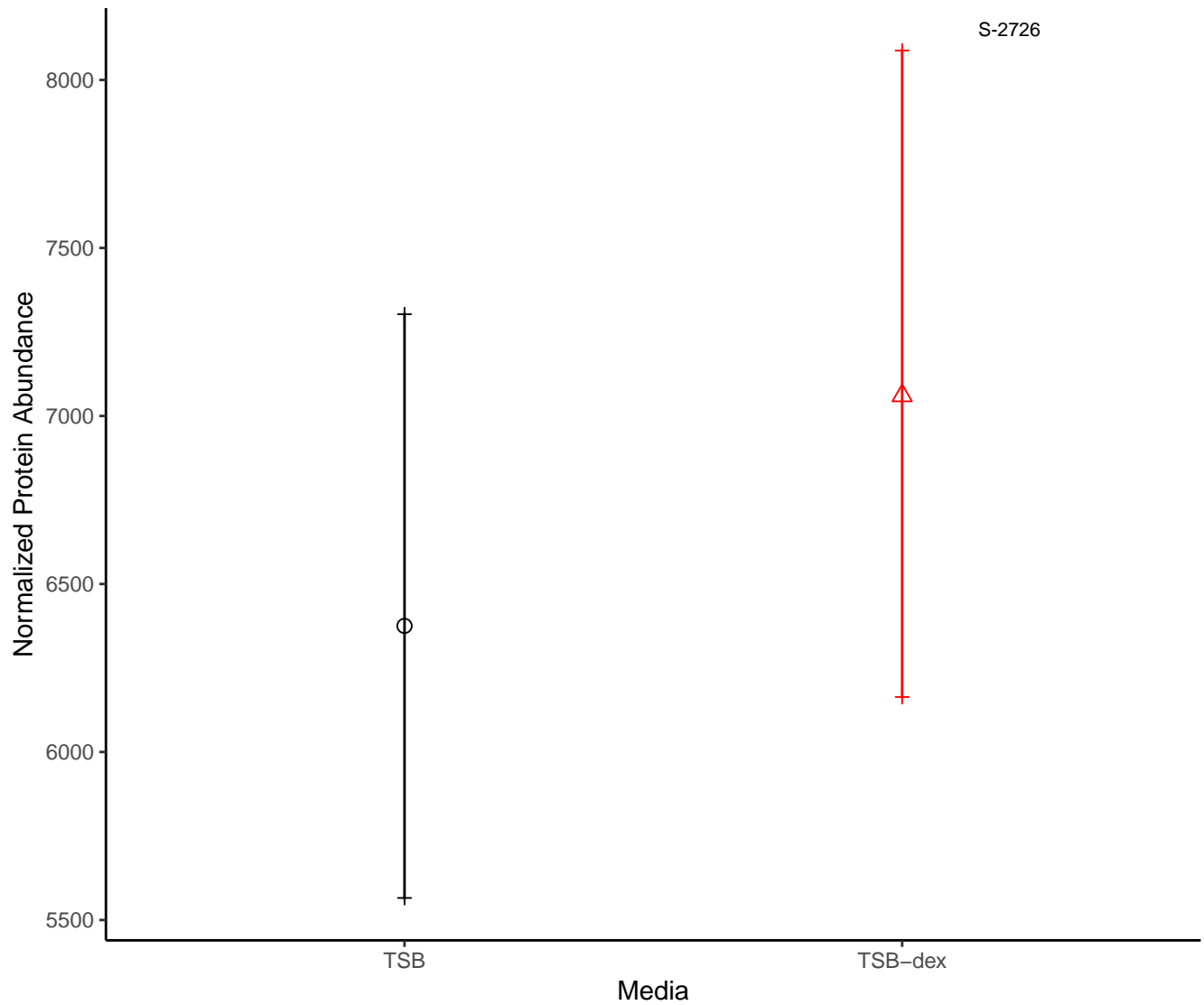
# MTNN\_STAAM



⊕ TSB-dex

△ TSB

# MURA1\_STAAM

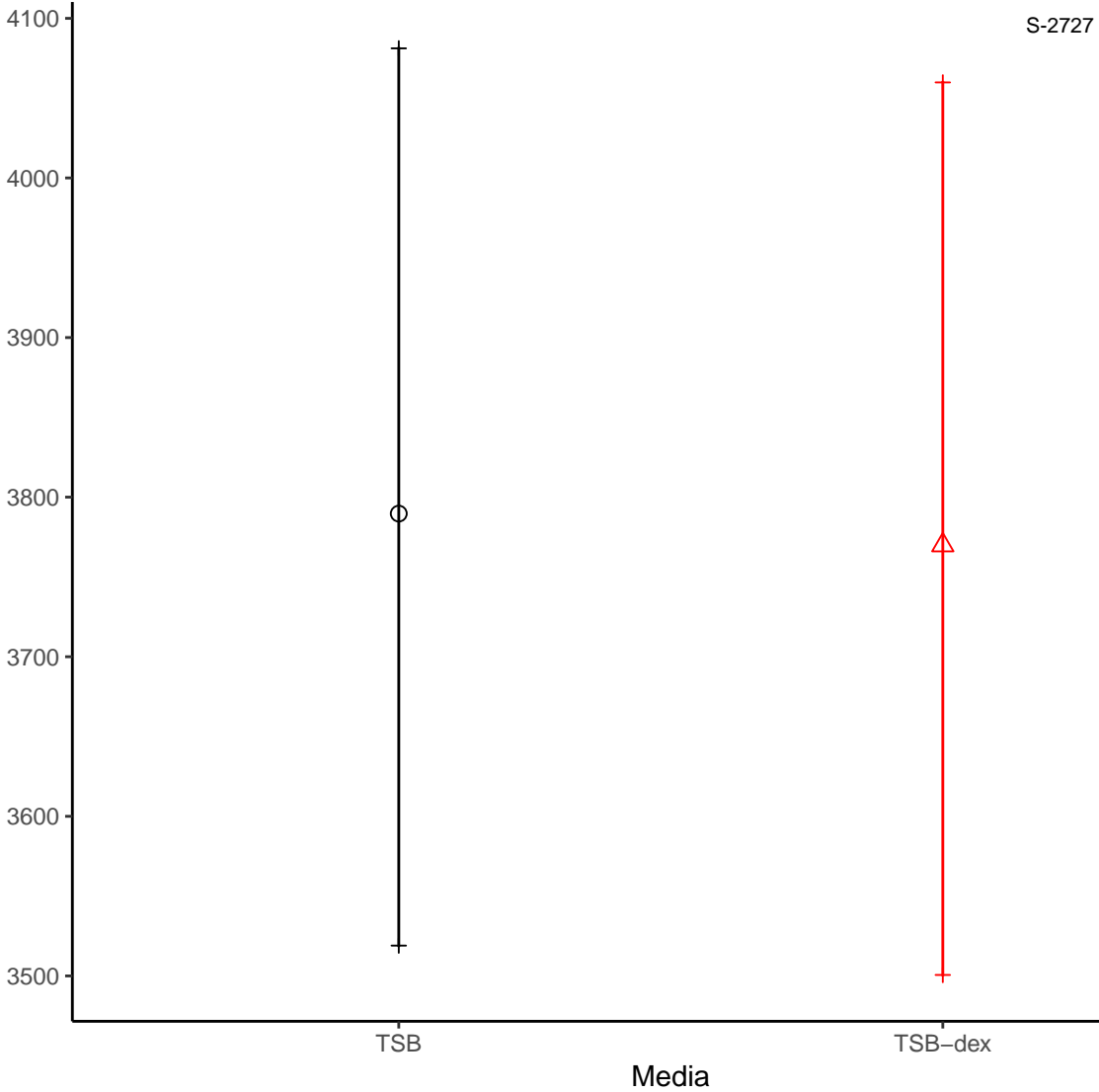


S-2726

⊕ TSB-dex

△ TSB

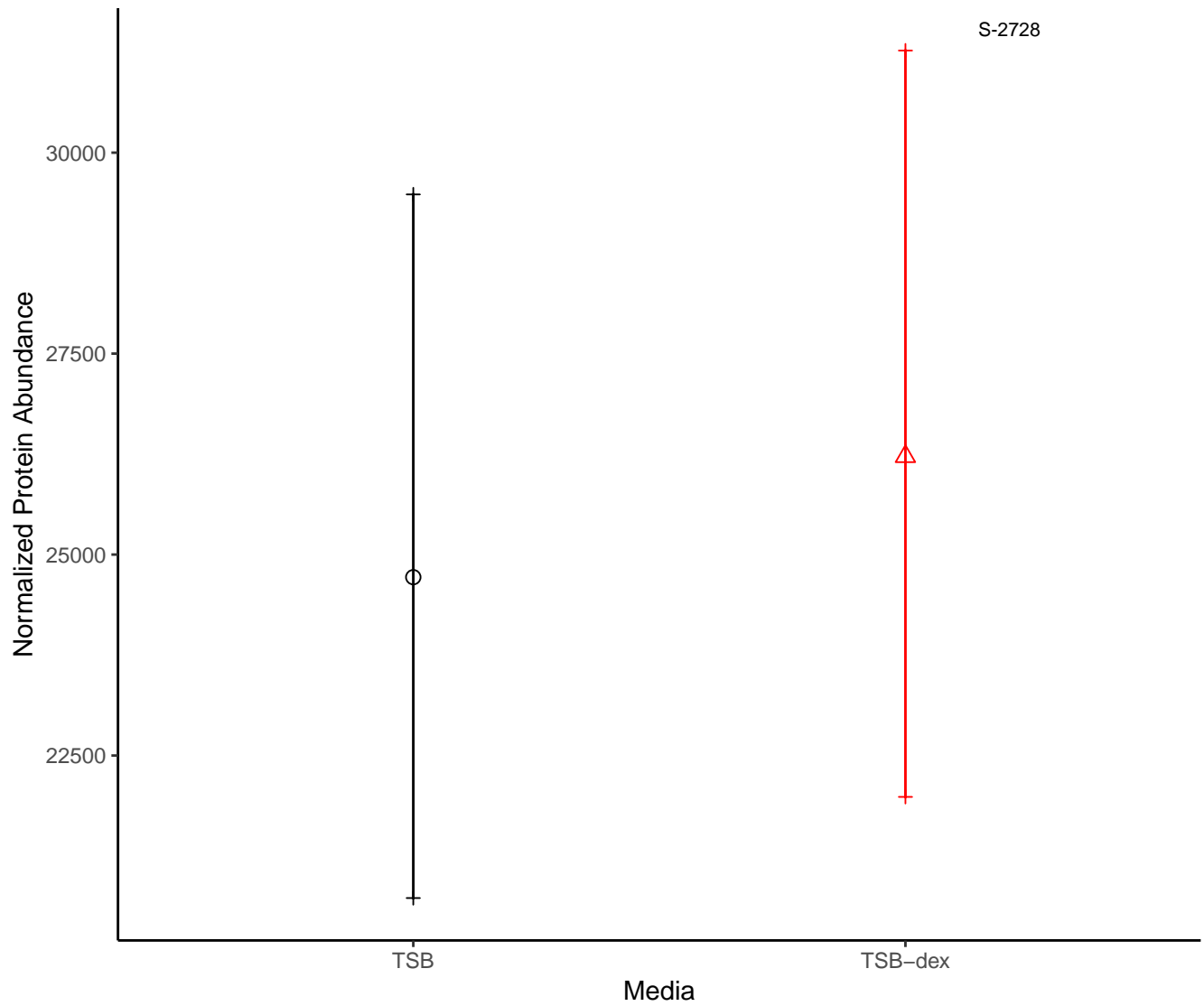
# MURA2\_STAAM



⊕ TSB-dex

△ TSB

# MURC\_STAAM

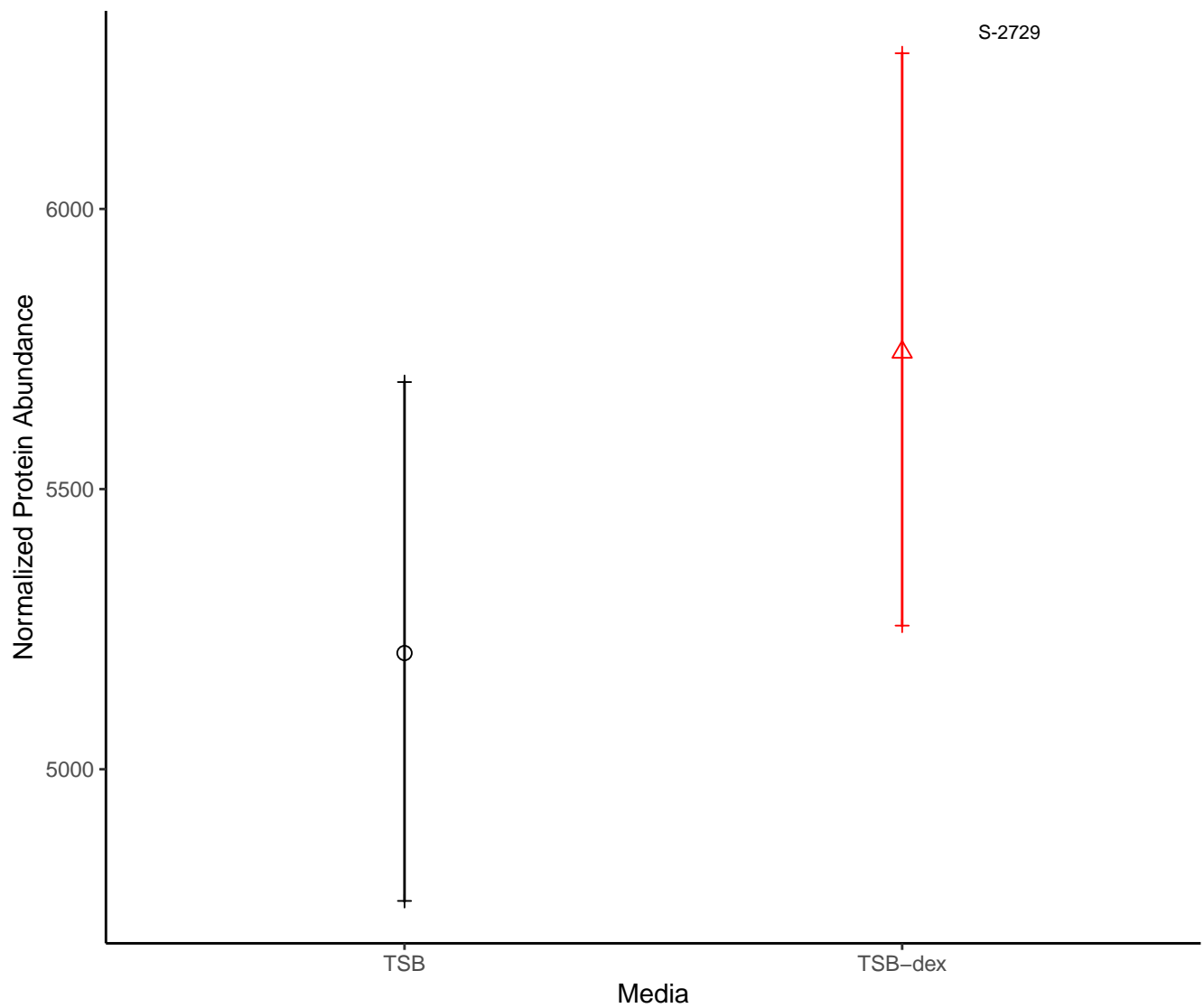


⊕ TSB-dex

△ TSB



# MURD\_STAAM

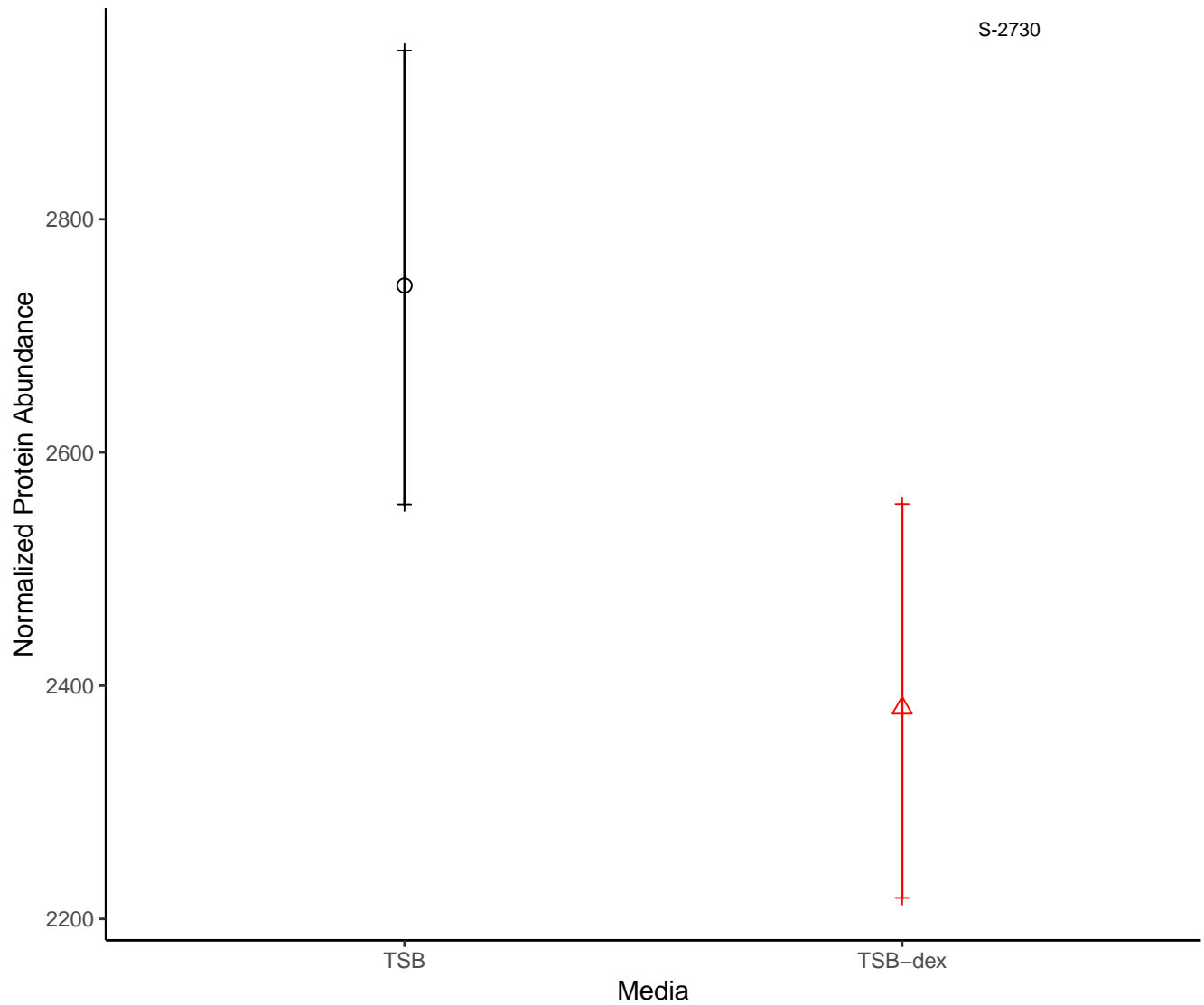


⊕ TSB-dex

△ TSB

# MURE\_STAAM

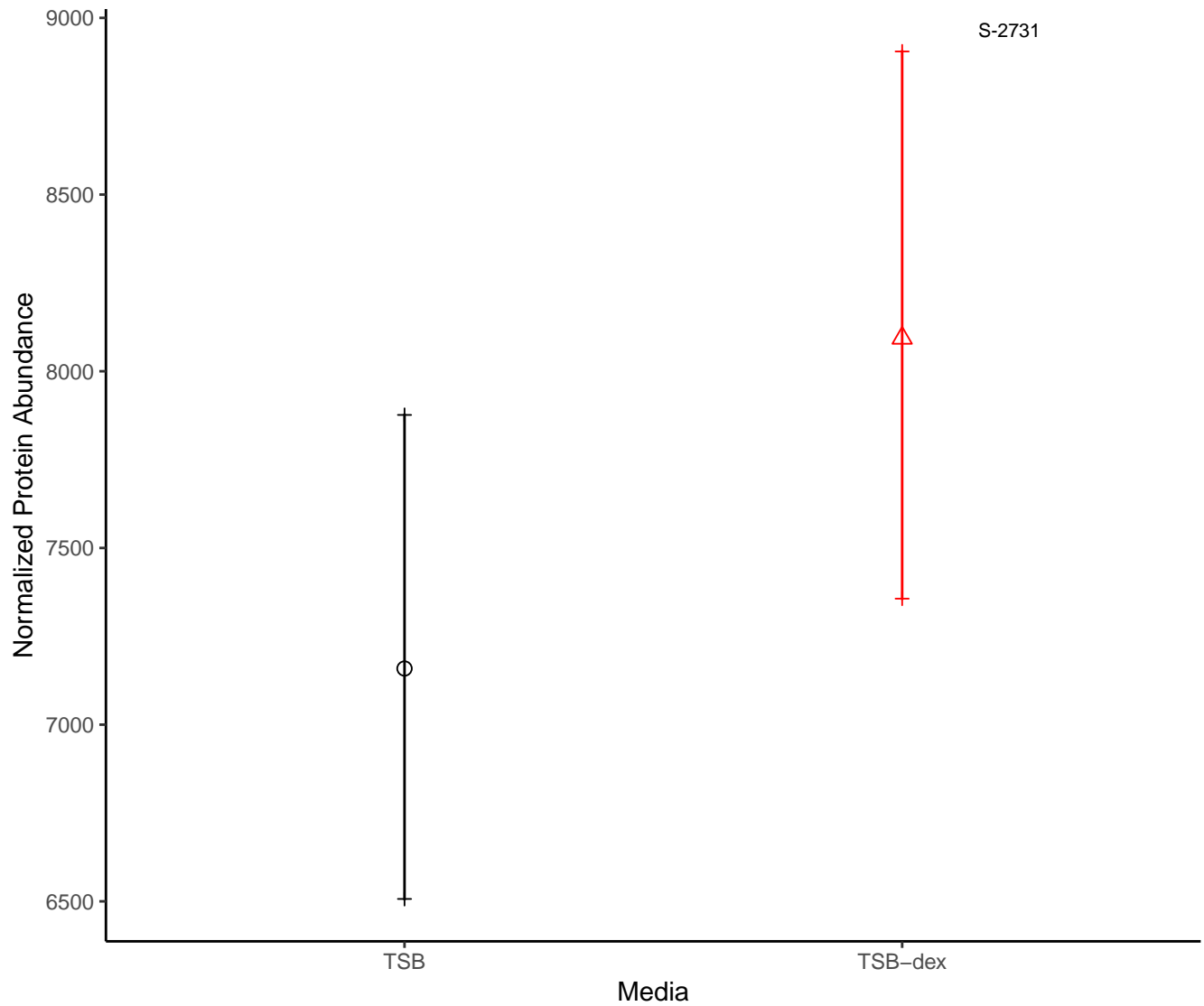
S-2730



⊕ TSB-dex

△ TSB

# MURG\_STAAM

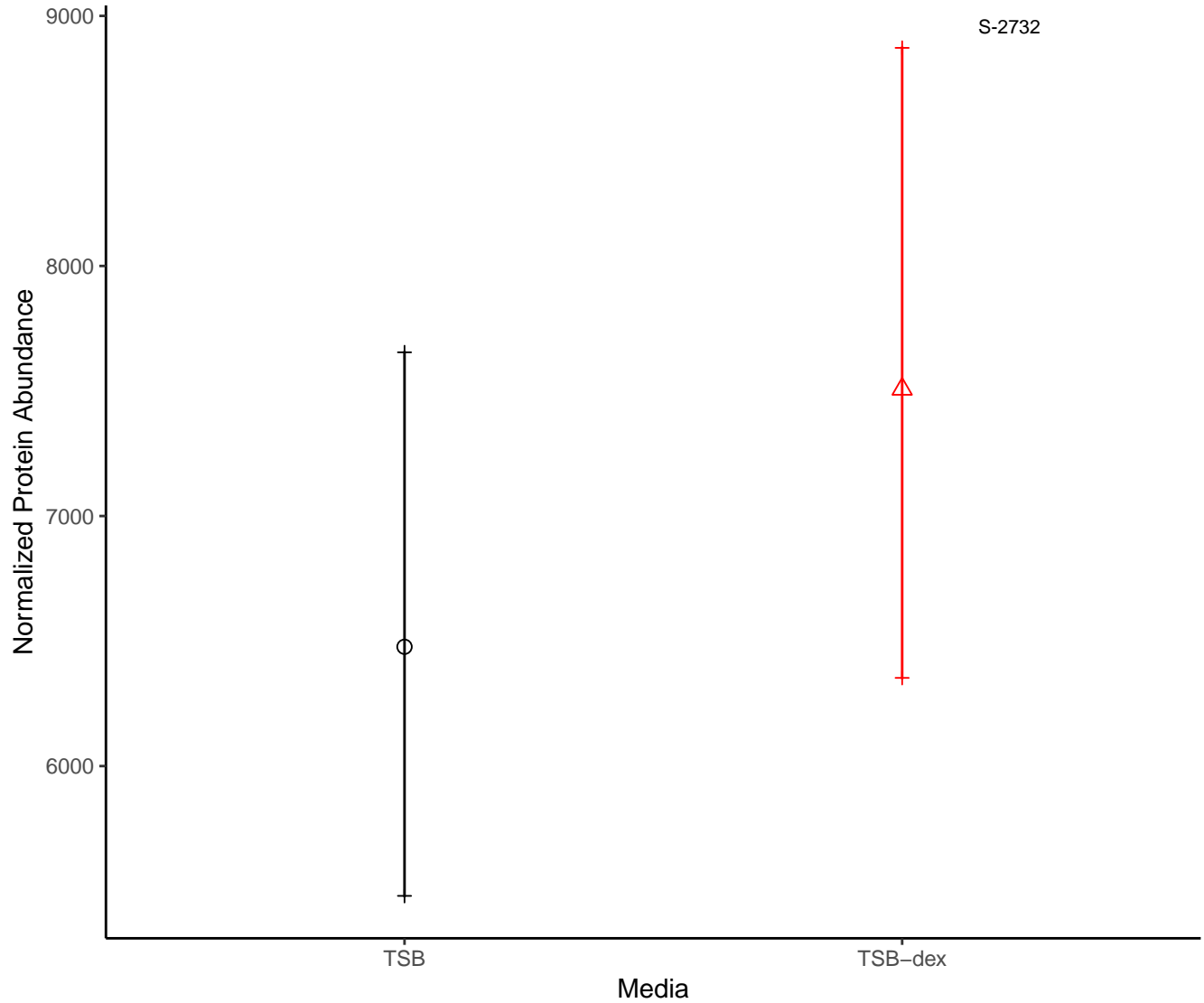


S-2731

⊕ TSB-dex

△ TSB

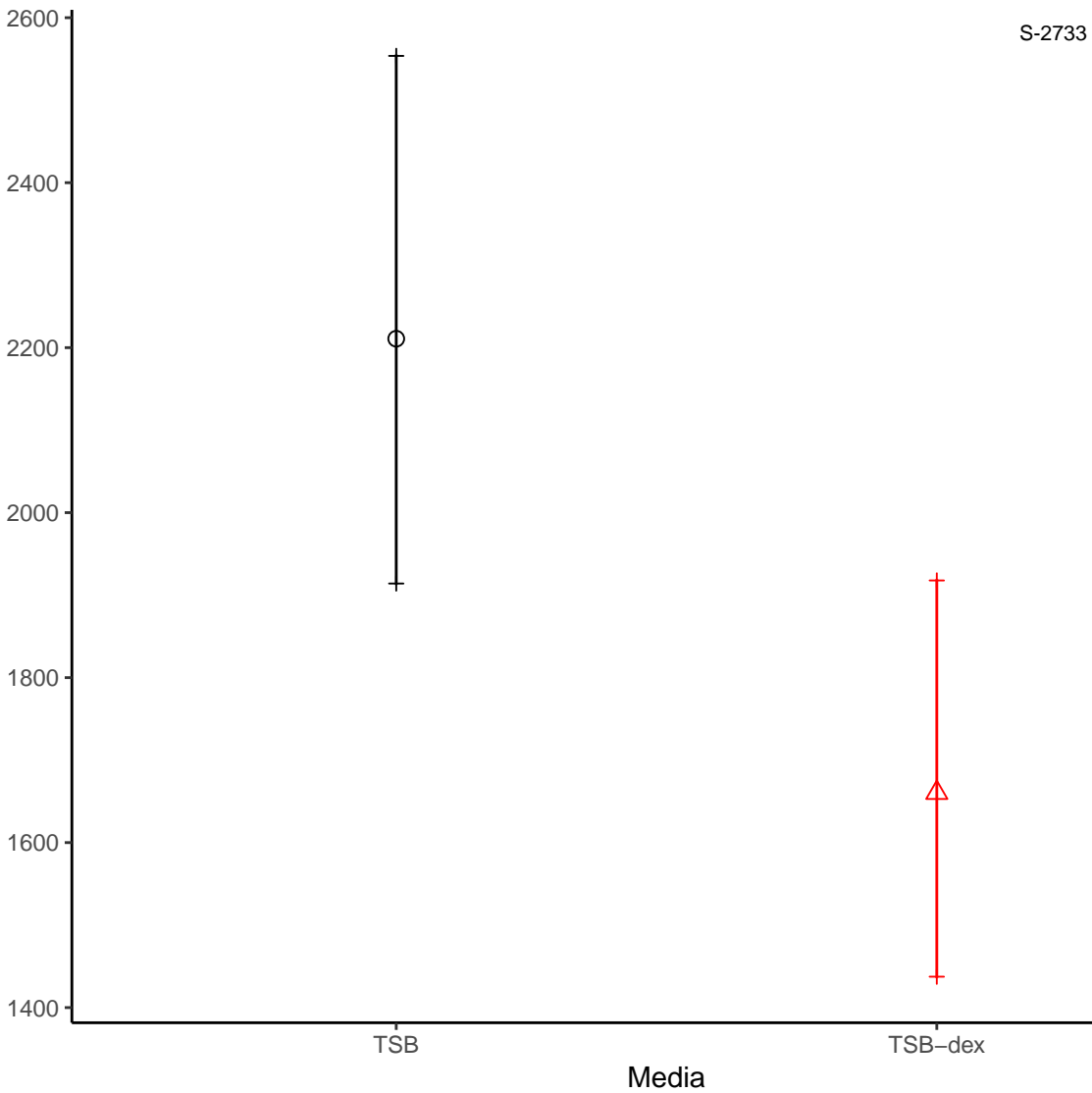
# MURI\_STAAM



⊕ TSB-dex

△ TSB

# MUTS\_STAAM

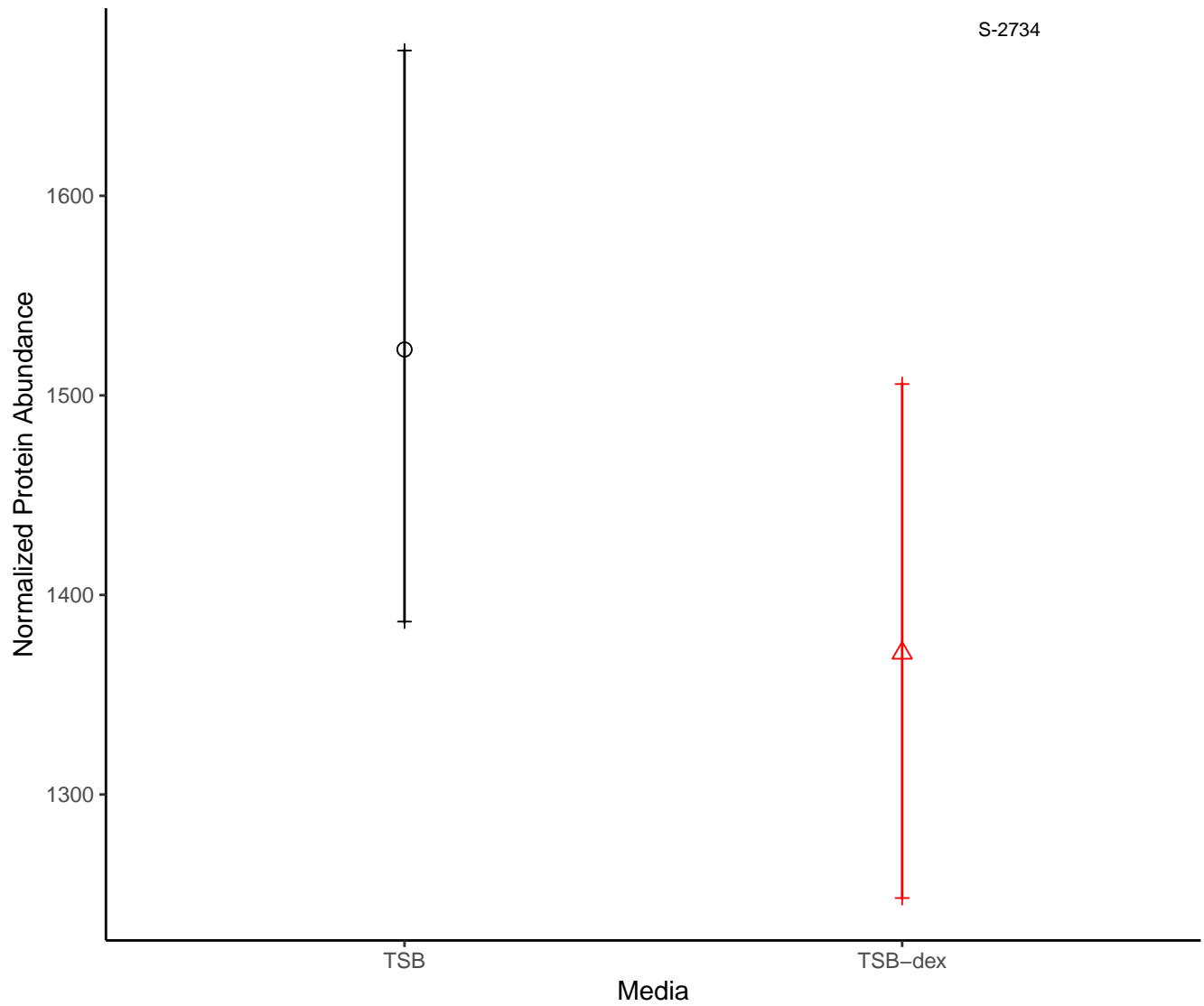


⊕ TSB-dex

△ TSB

# NADD\_STAAM

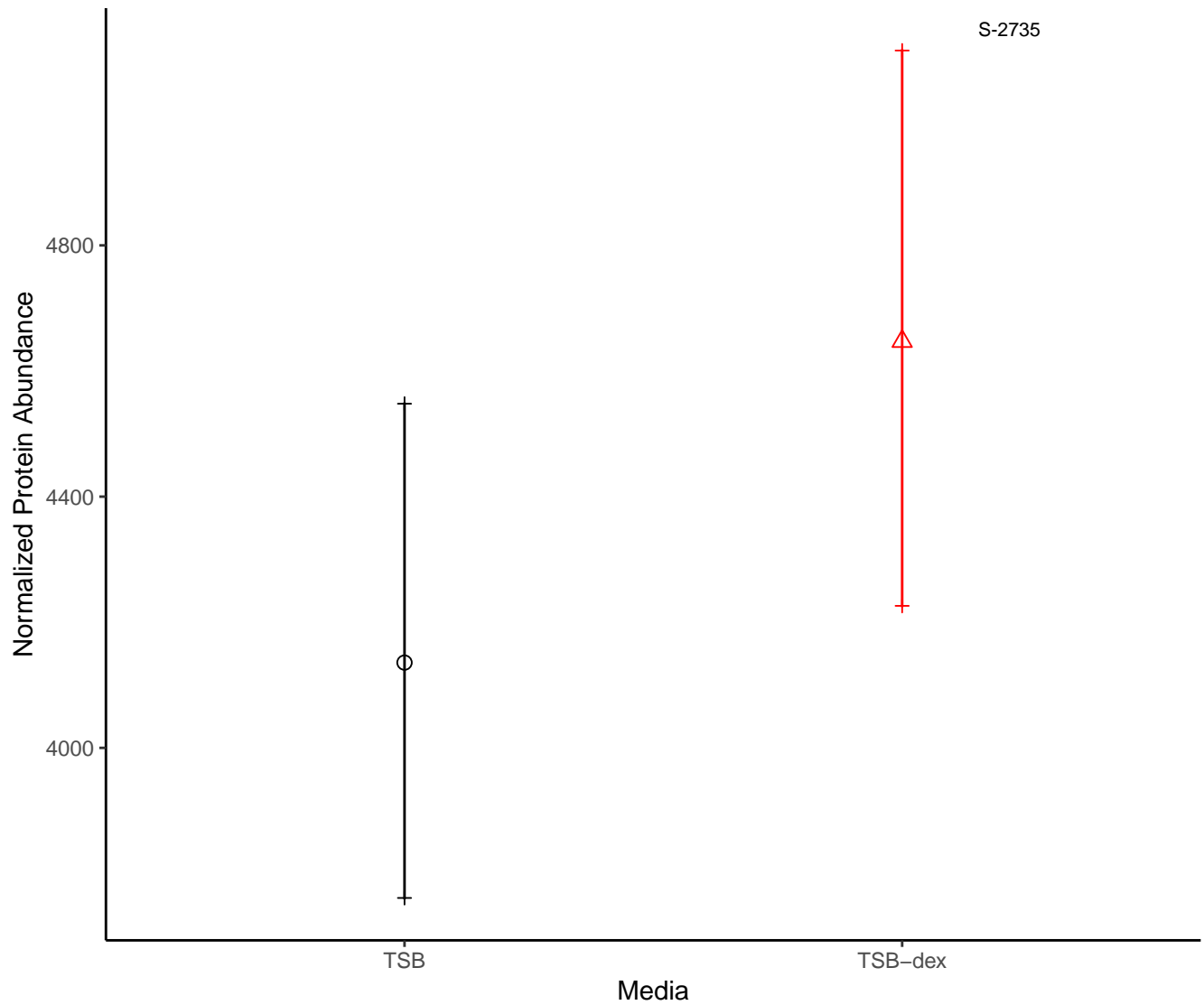
S-2734



⊕ TSB-dex

△ TSB

# NADE\_STAAM



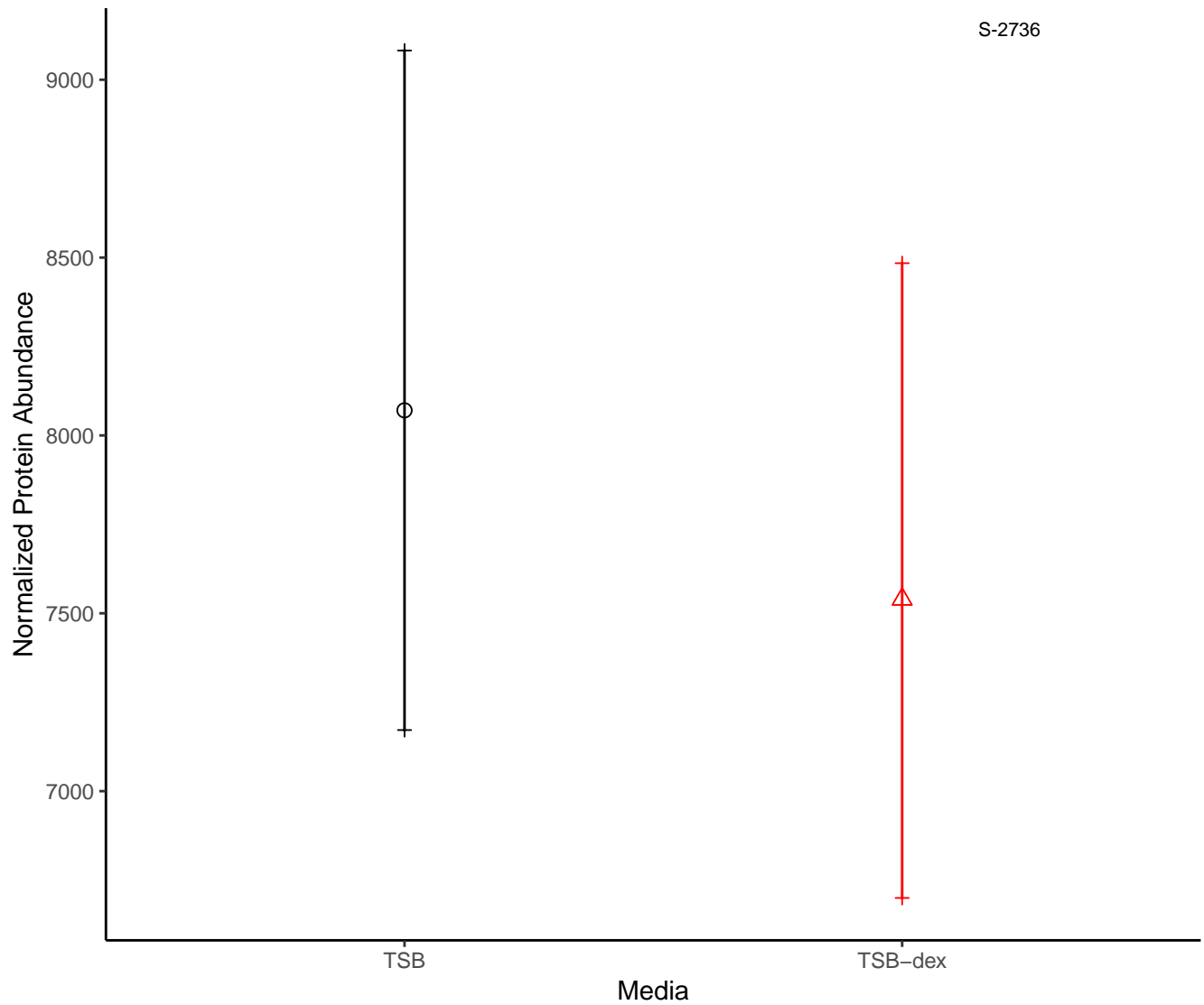
S-2735

⊕ TSB-dex

△ TSB

# NAGD\_STAAM

S-2736



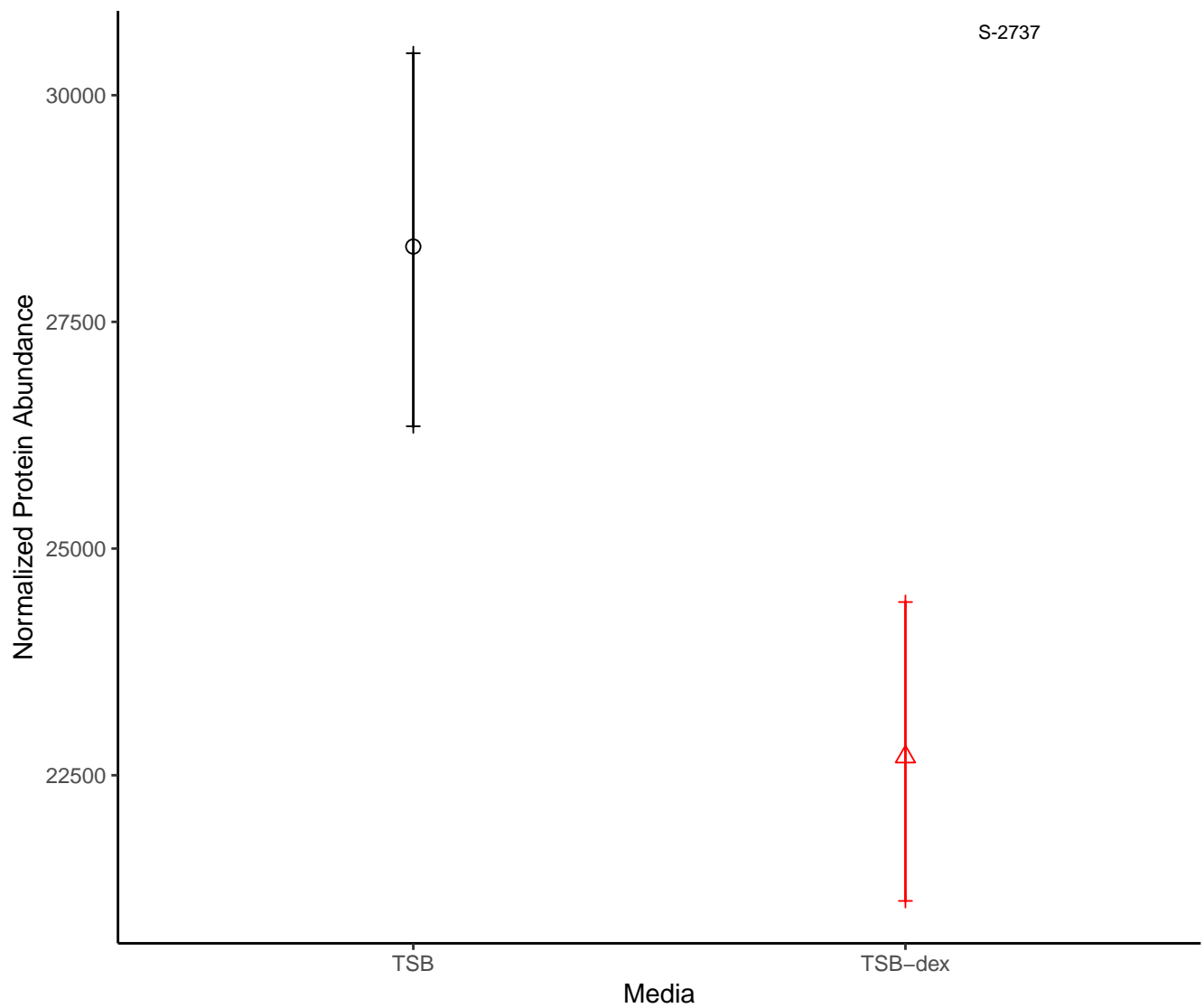
⊕ TSB-dex

△ TSB



# NDK\_STAAM

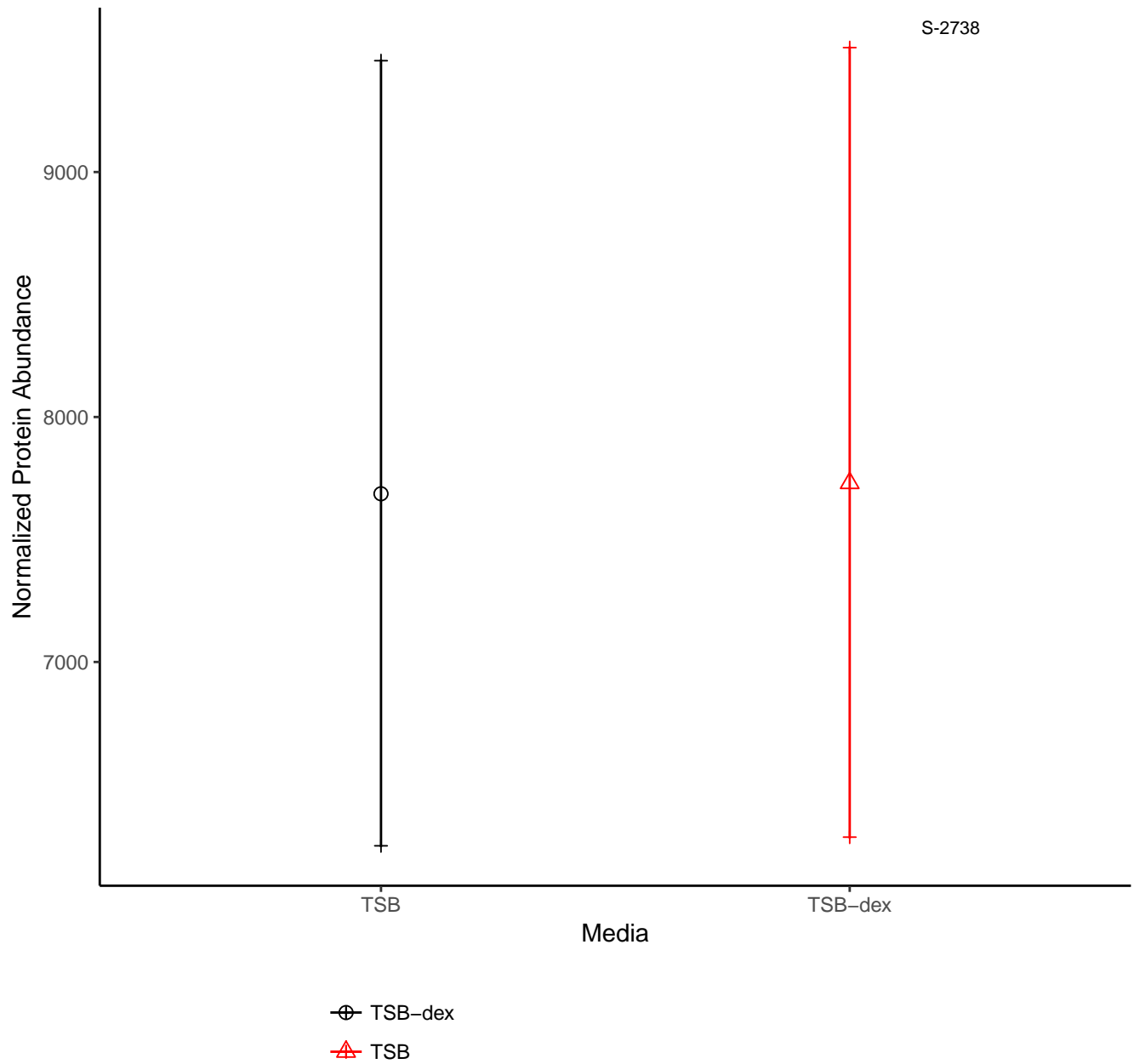
S-2737



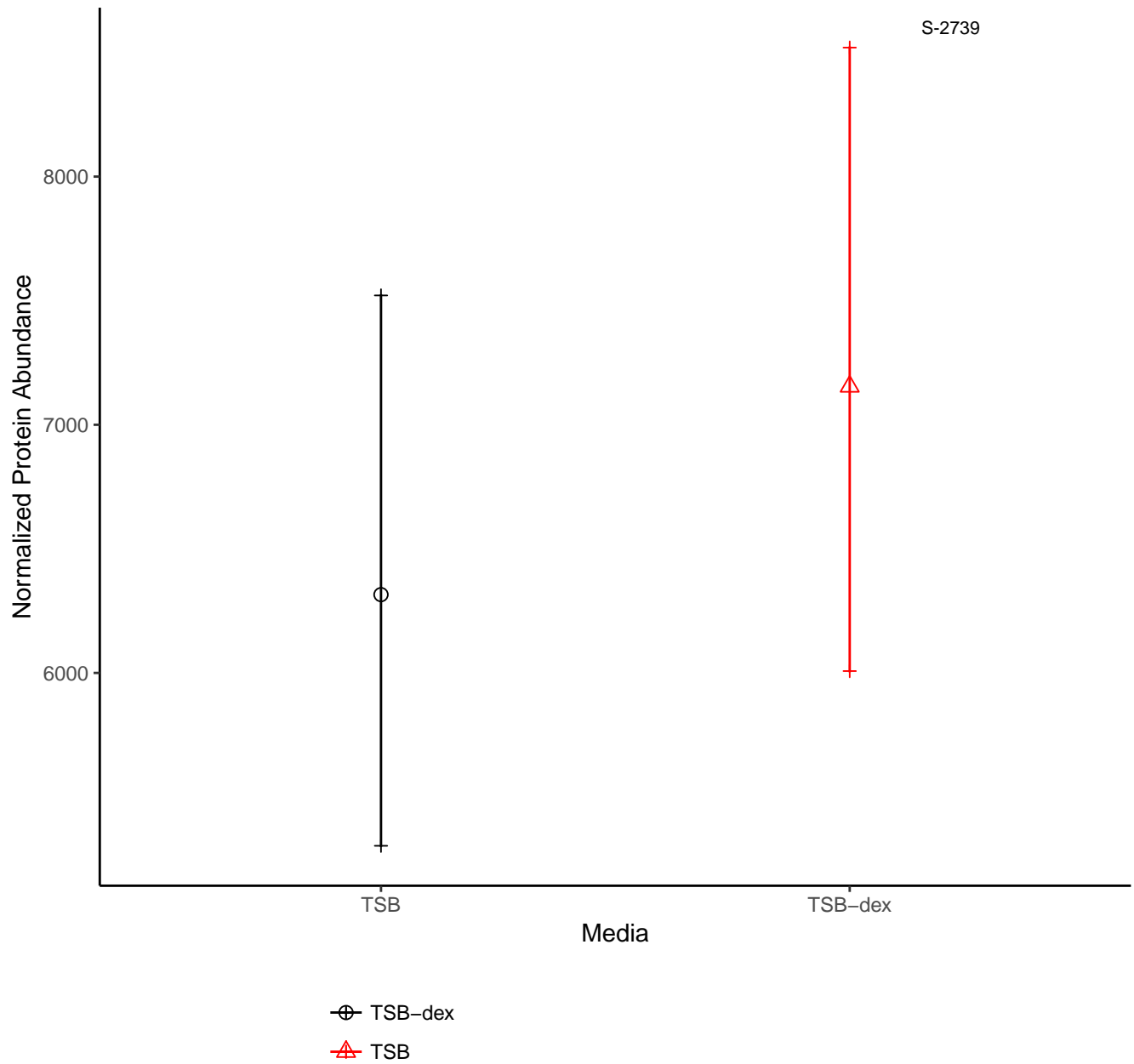
⊕ TSB-dex

△ TSB

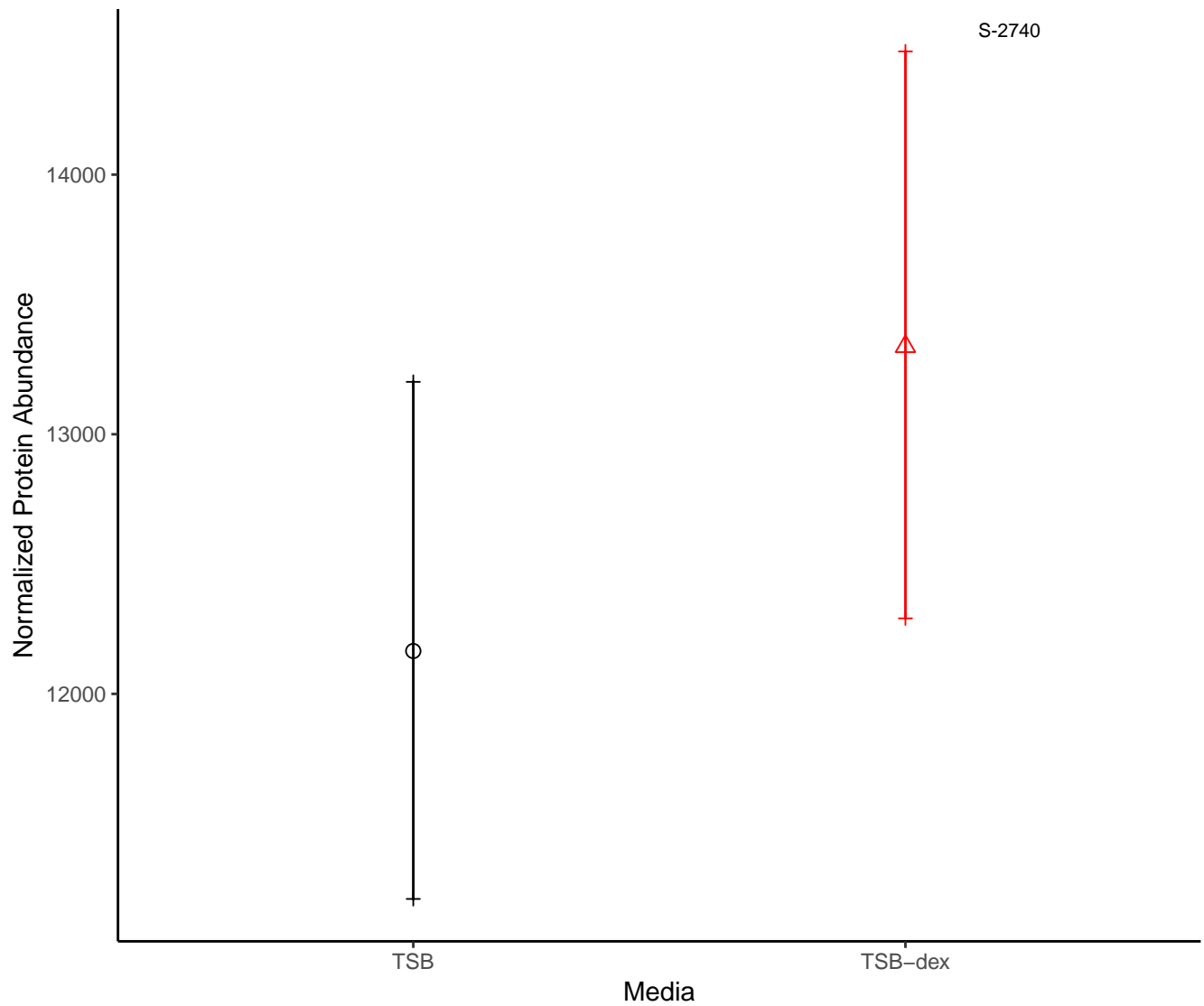
# NRDR\_STAAM



# NREB\_STAAM



# NUSG\_STAAM

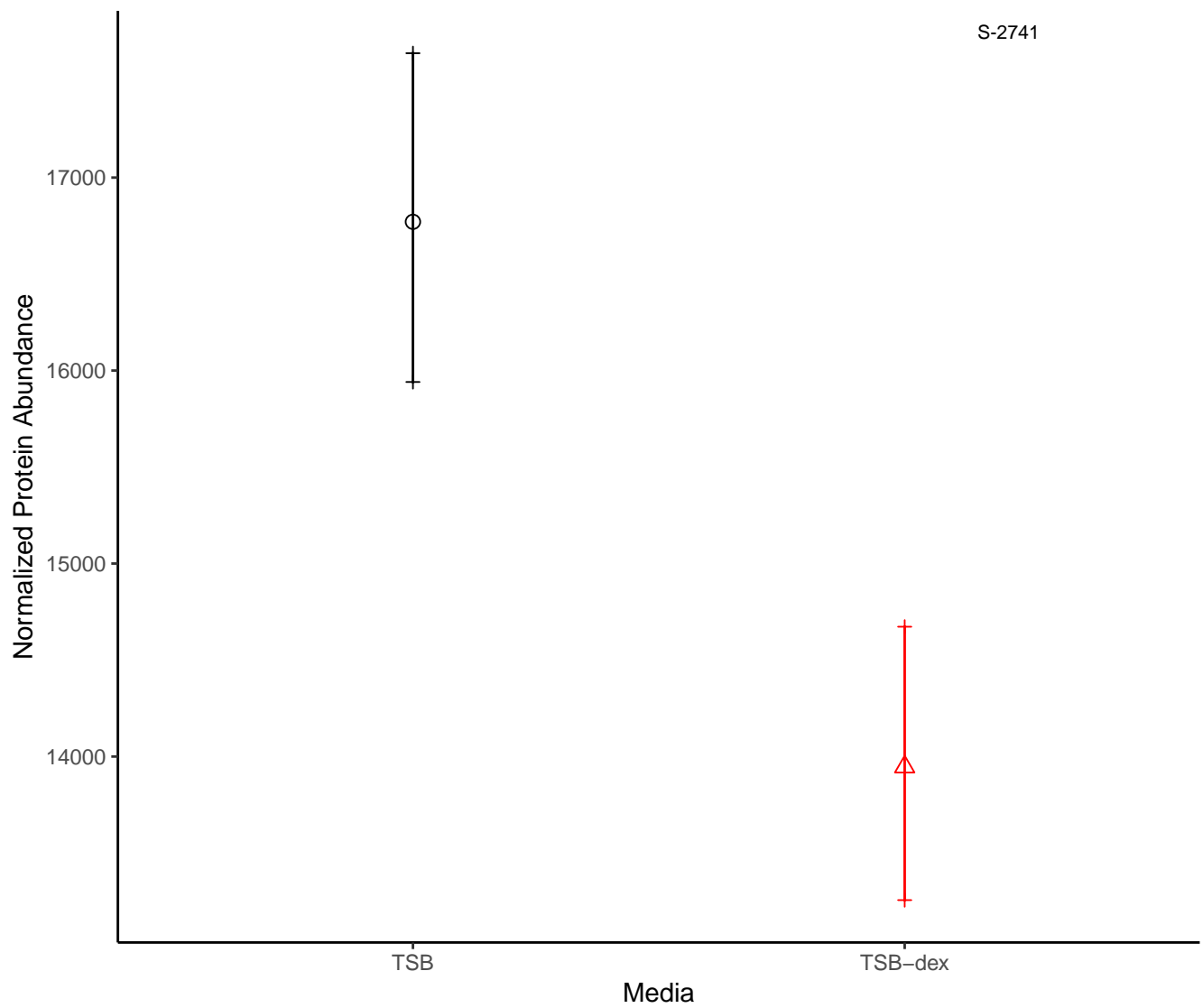


⊕ TSB-dex

△ TSB

# OAT2\_STAAM

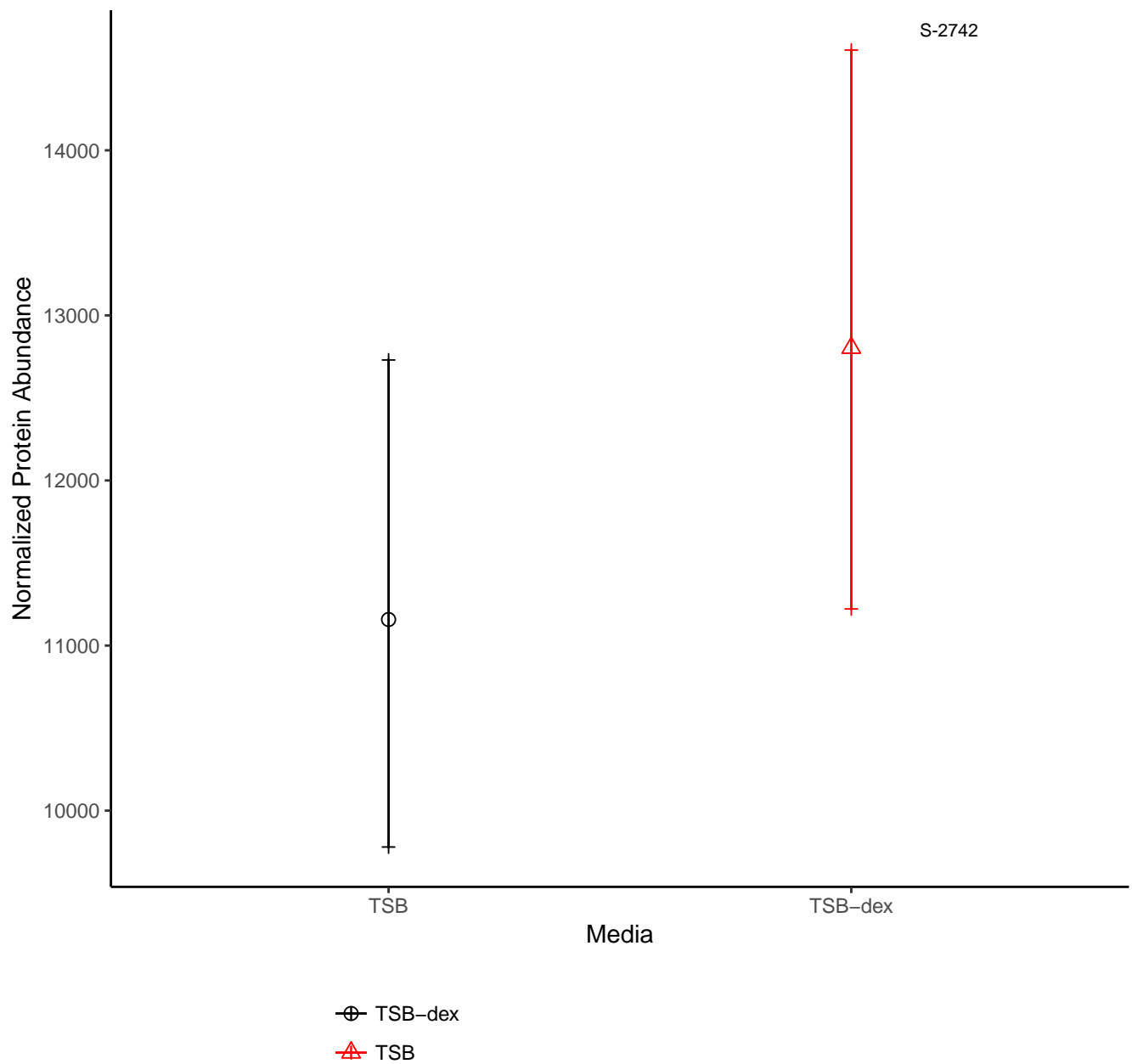
S-2741



⊕ TSB-dex

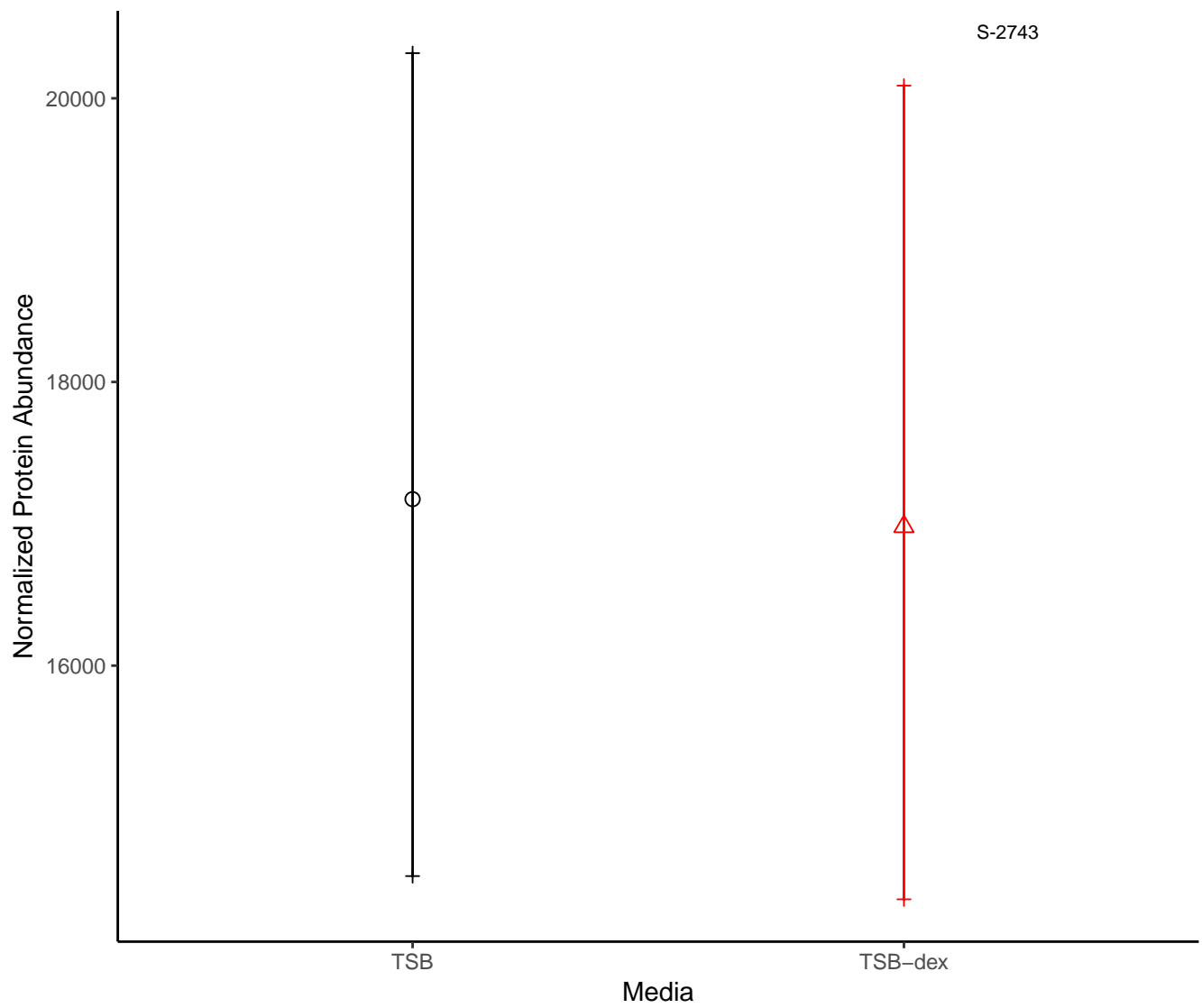
△ TSB

# OBG\_STAAM



# ODO1\_STAAM

S-2743

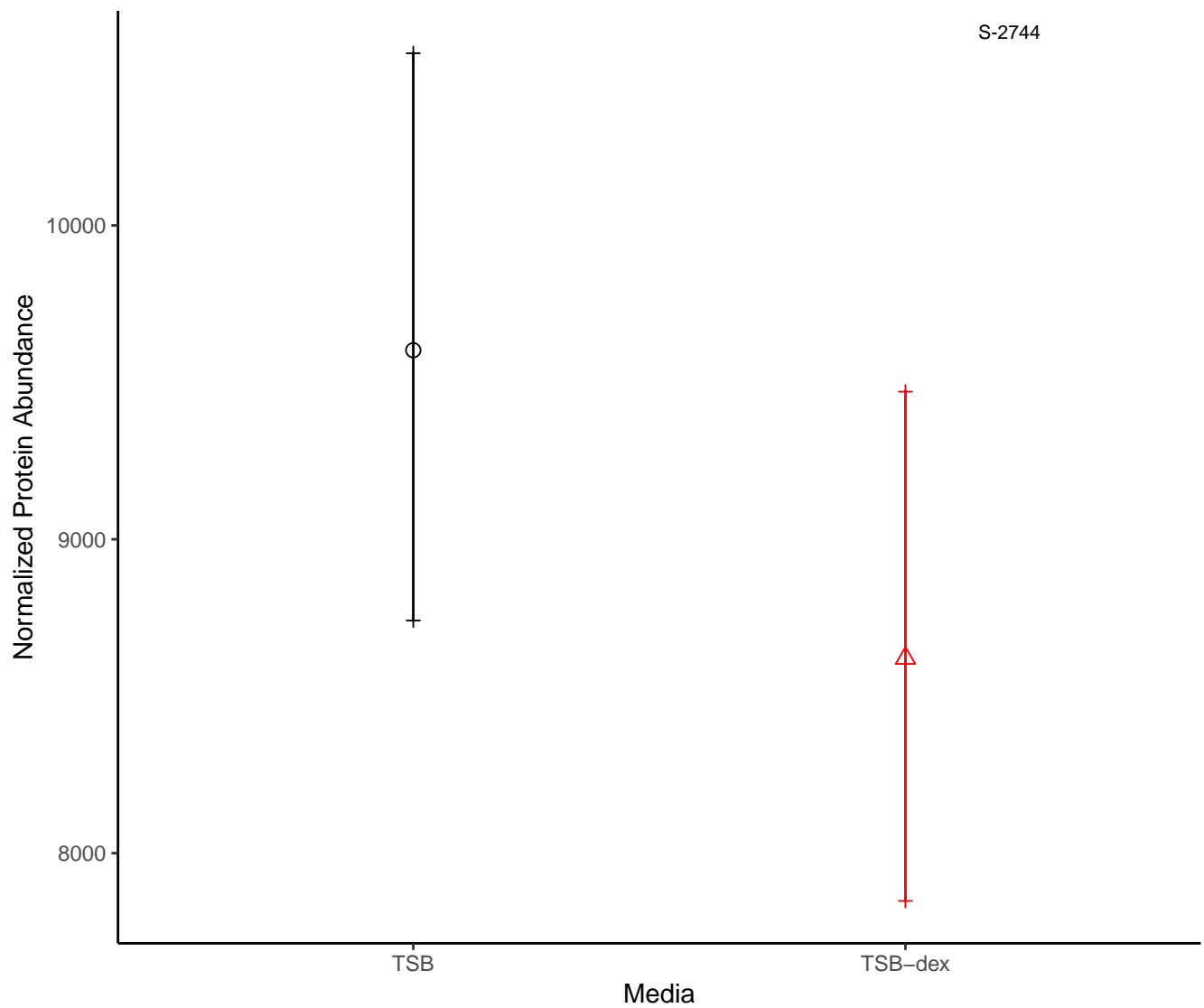


⊕ TSB-dex

△ TSB

# ODO2\_STAAM

S-2744

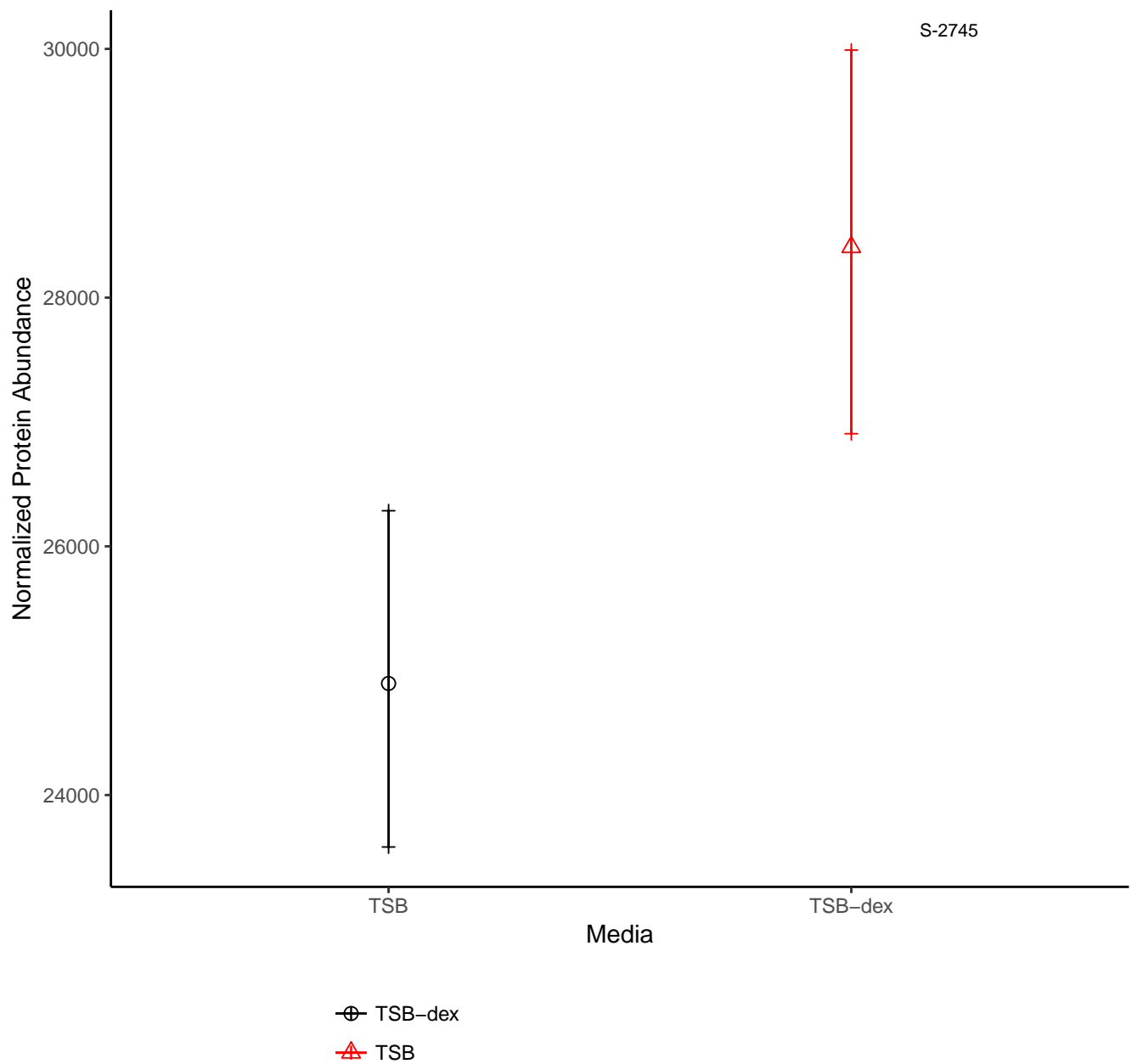


⊕ TSB-dex

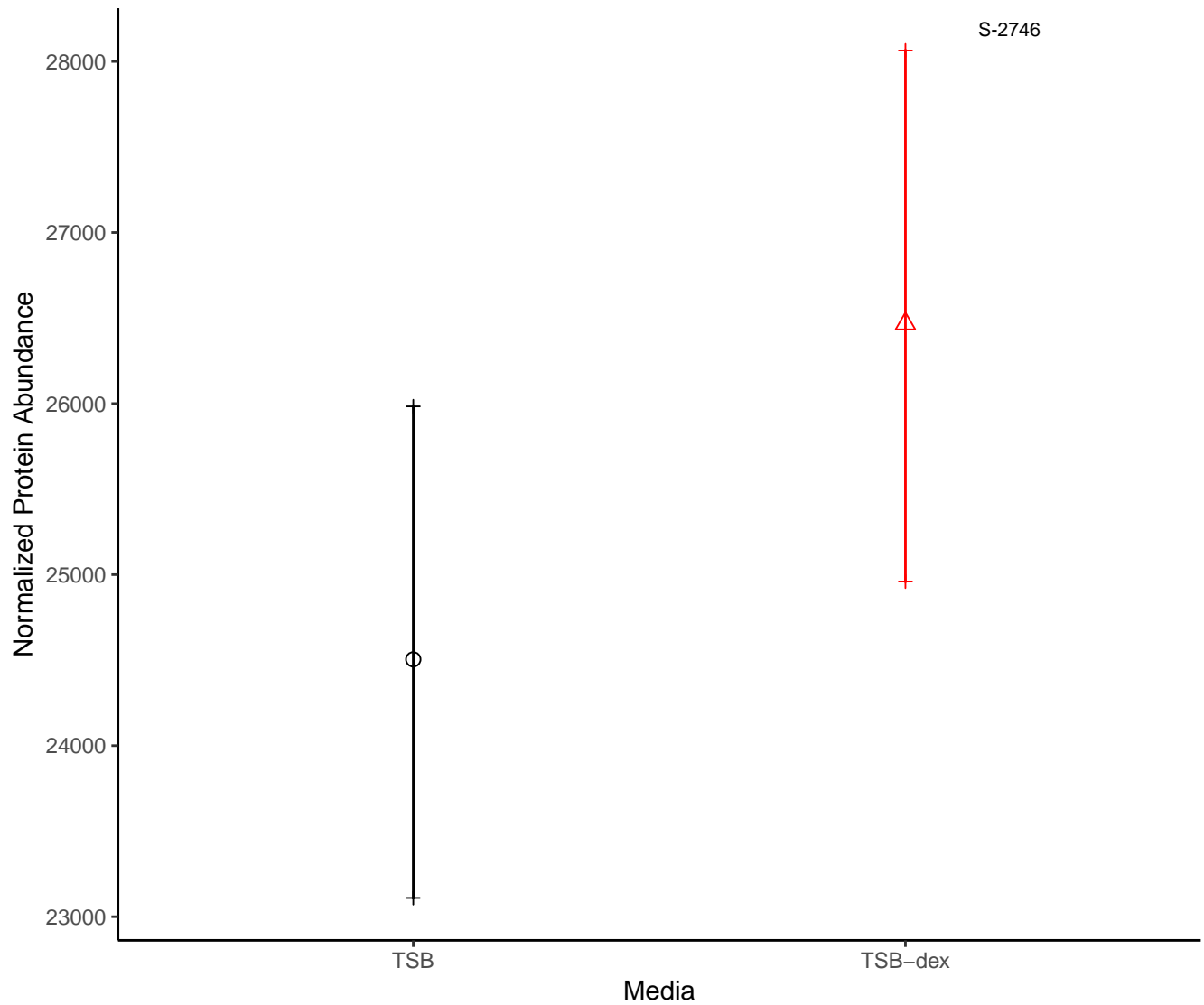
△ TSB



# ODP2\_STAAM



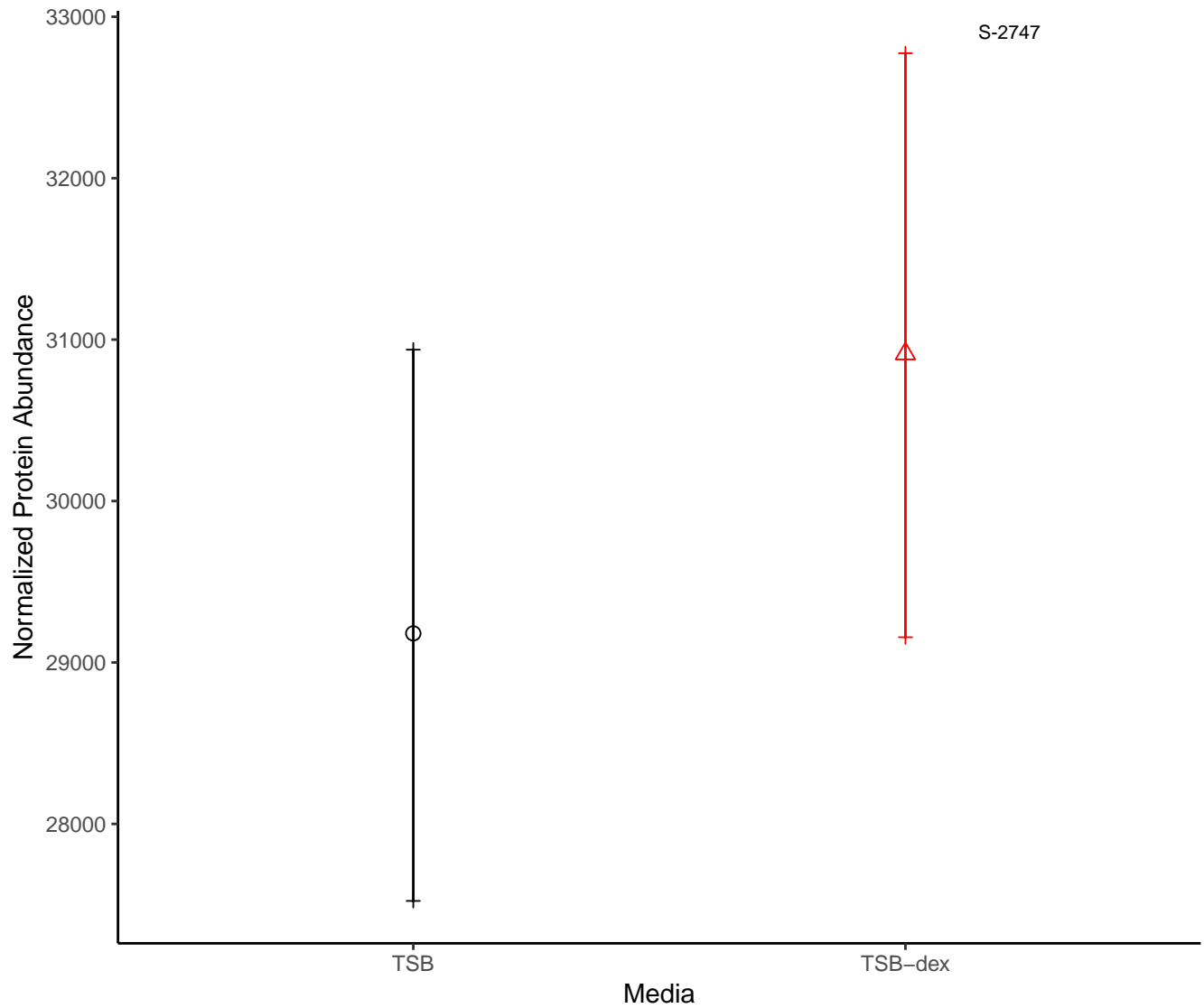
# ODPA\_STAAM



⊕ TSB-dex

△ TSB

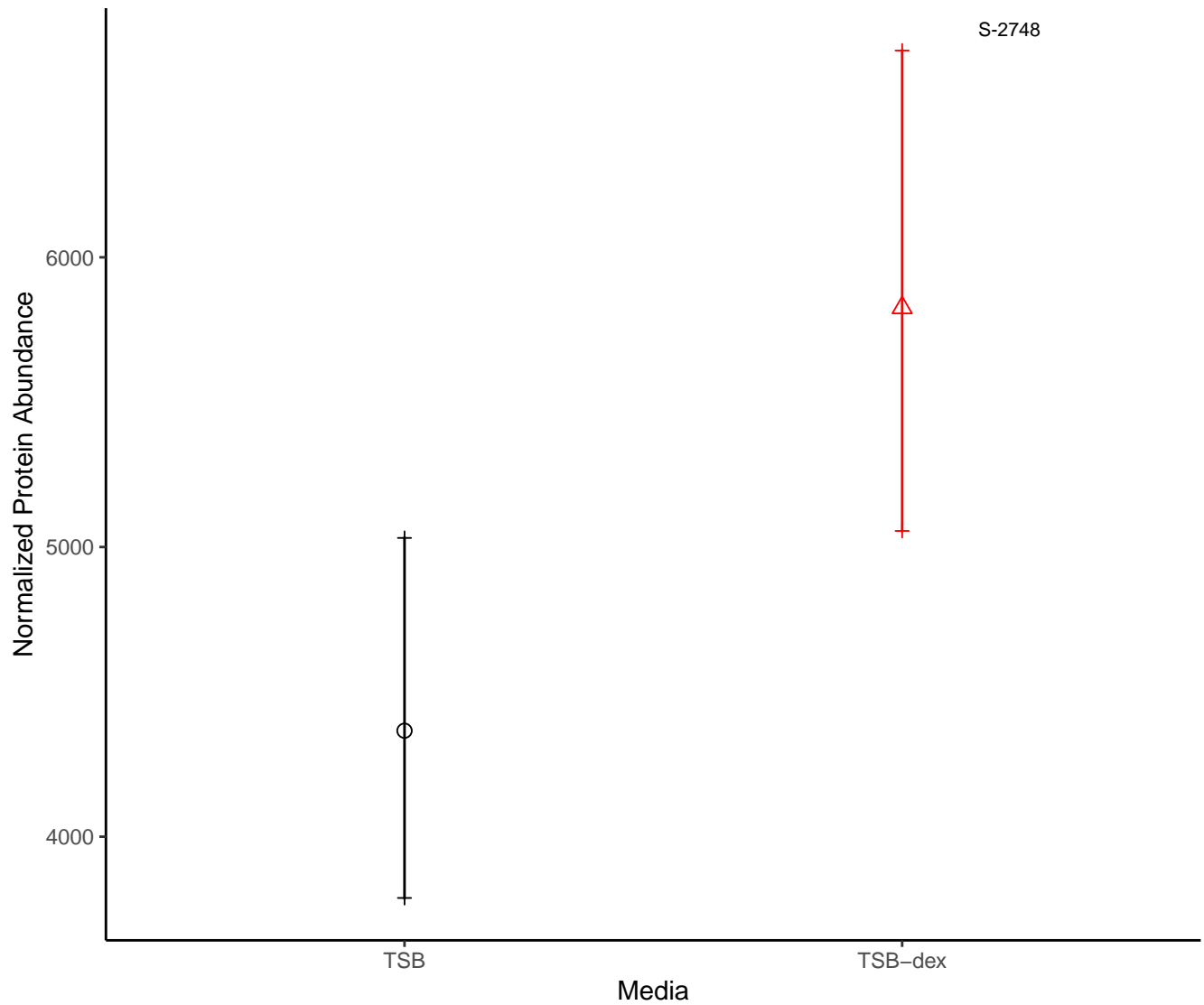
# ODPB\_STAAM



⊕ TSB-dex

△ TSB

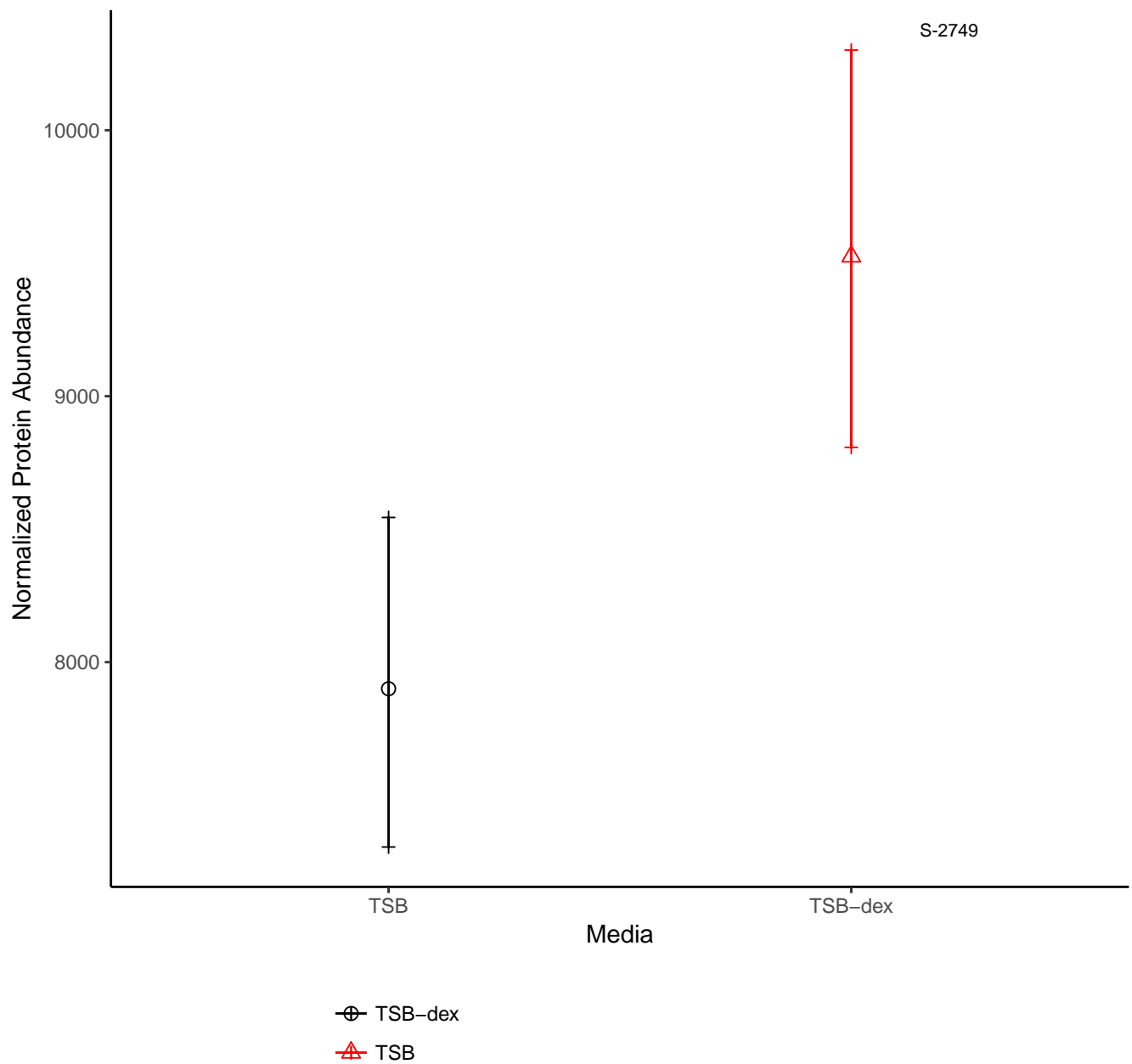
# OHRL\_STAAM



⊕ TSB-dex

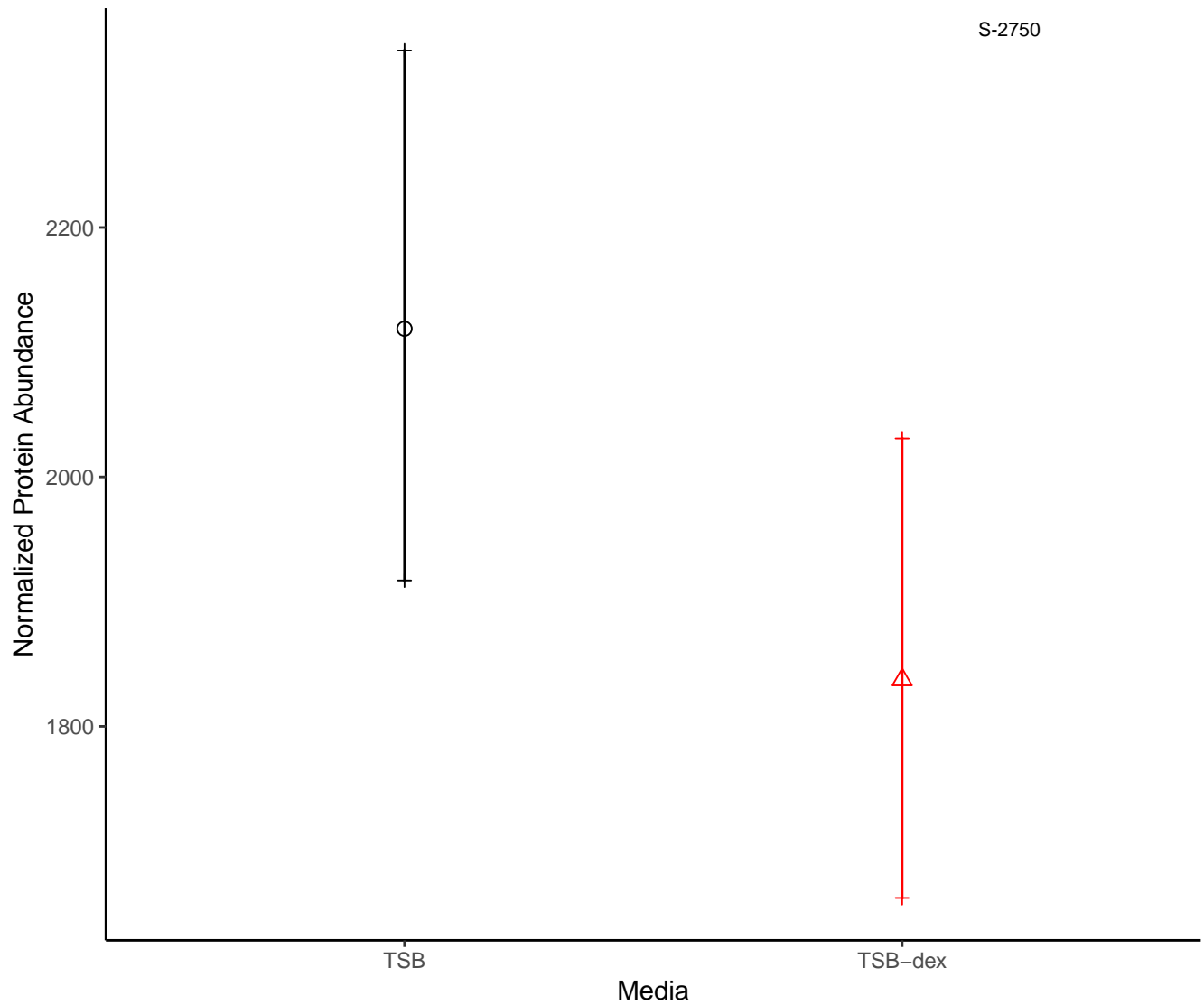
△ TSB

# OTC\_STAAM



# OTCC\_STAAM

S-2750

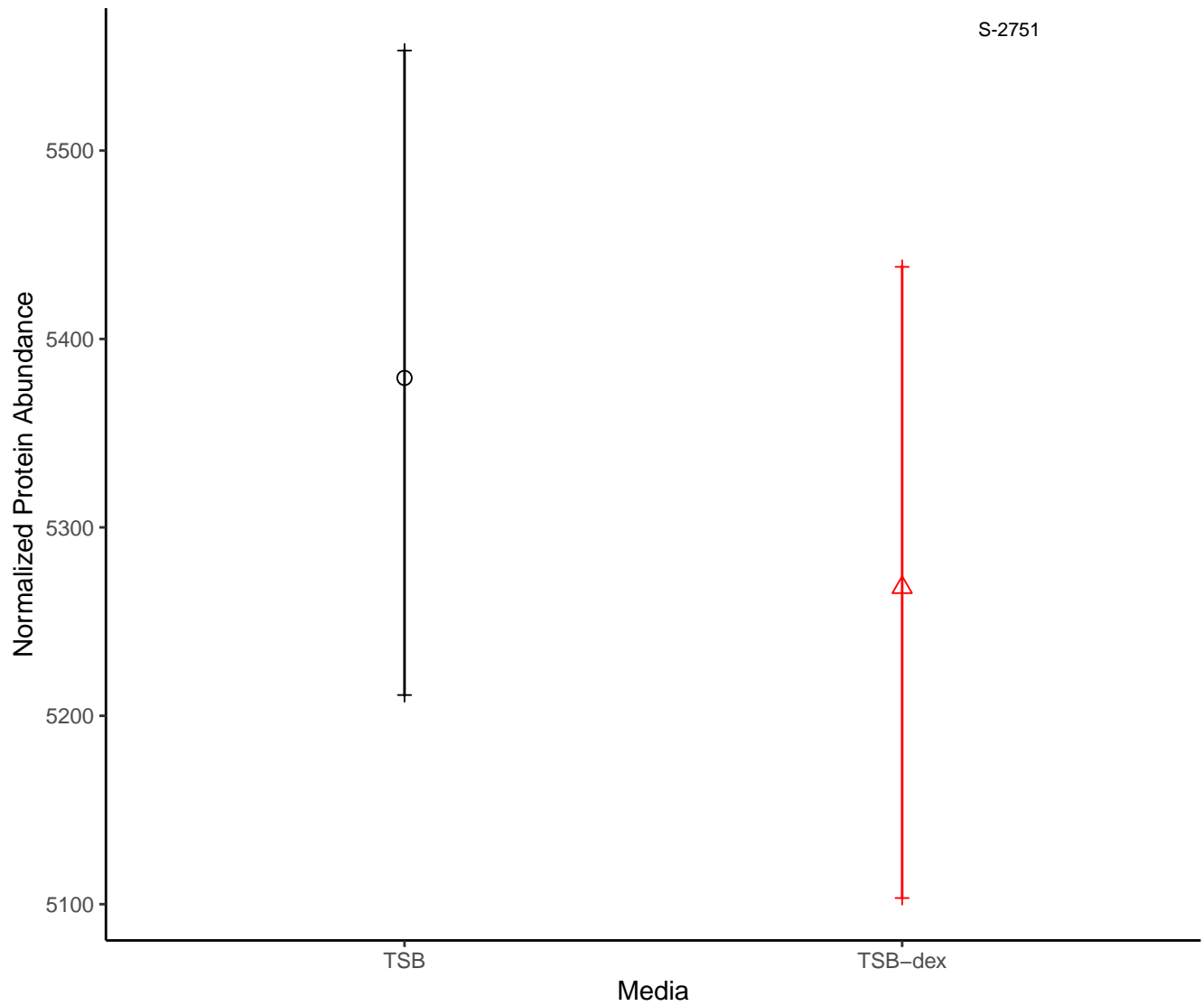


⊕ TSB-dex

△ TSB

# P5CR\_STAAM

S-2751

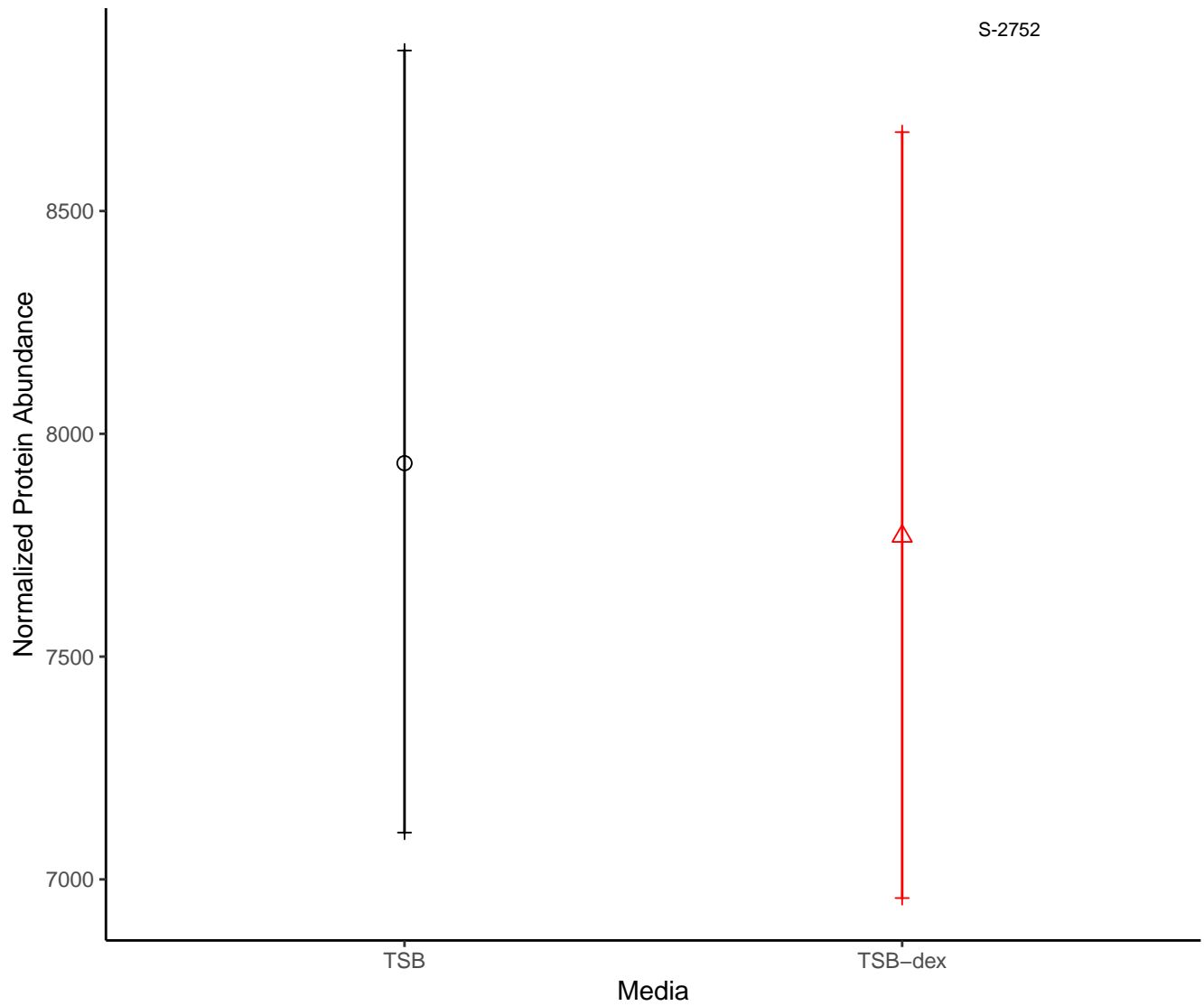


⊕ TSB-dex

△ TSB

# PANB\_STAAM

S-2752

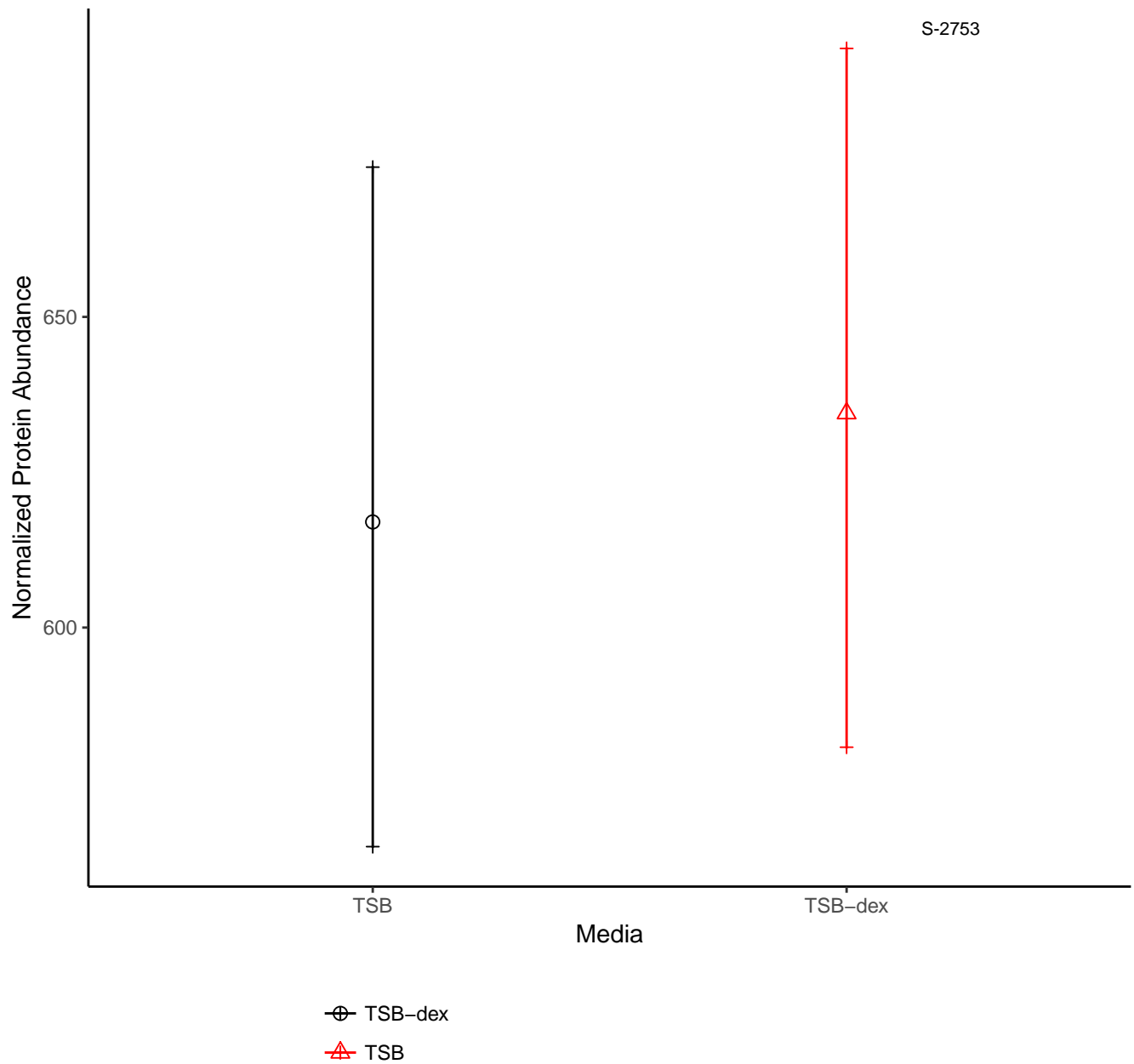


⊕ TSB-dex

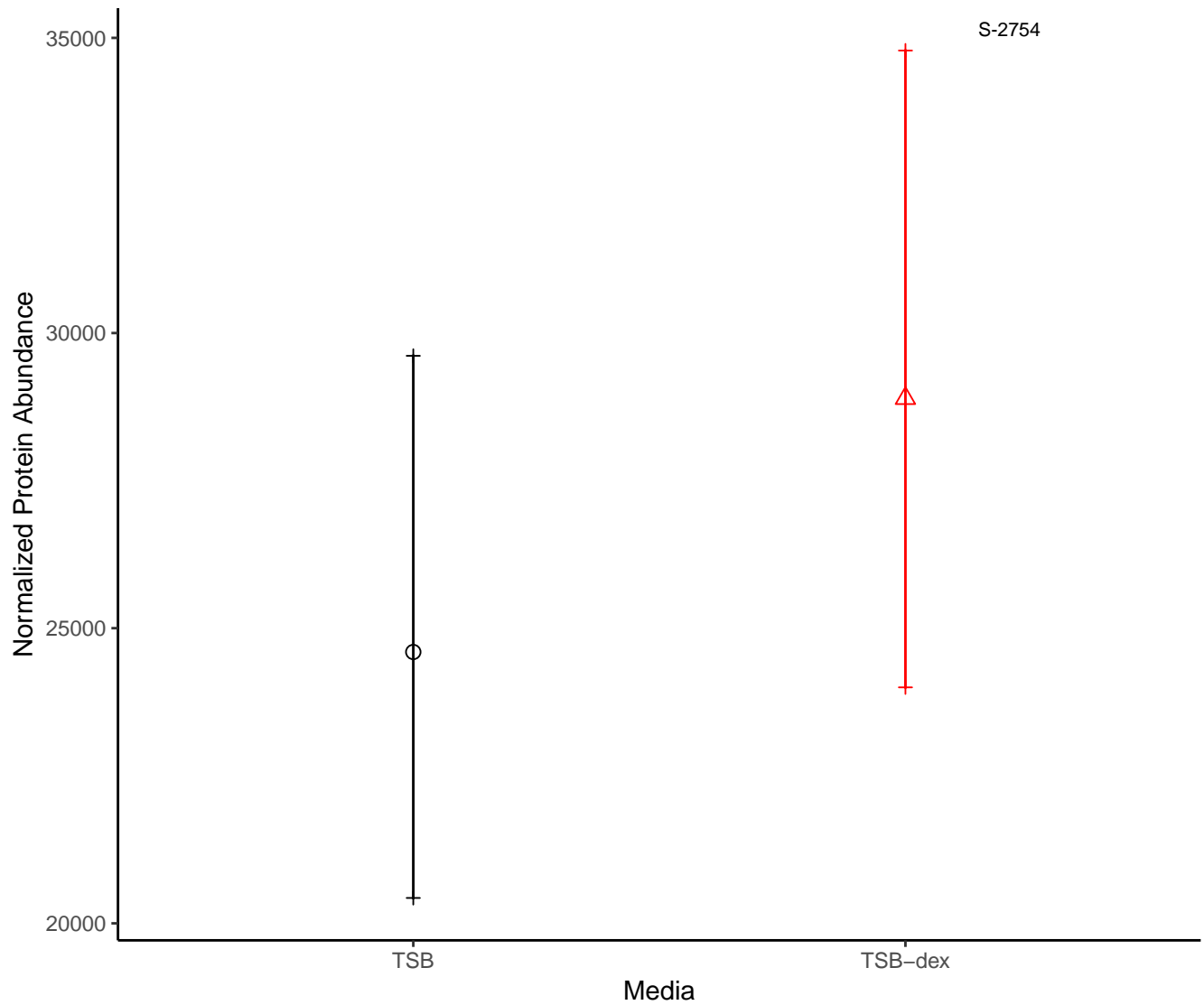
△ TSB



# PAND\_STAAM



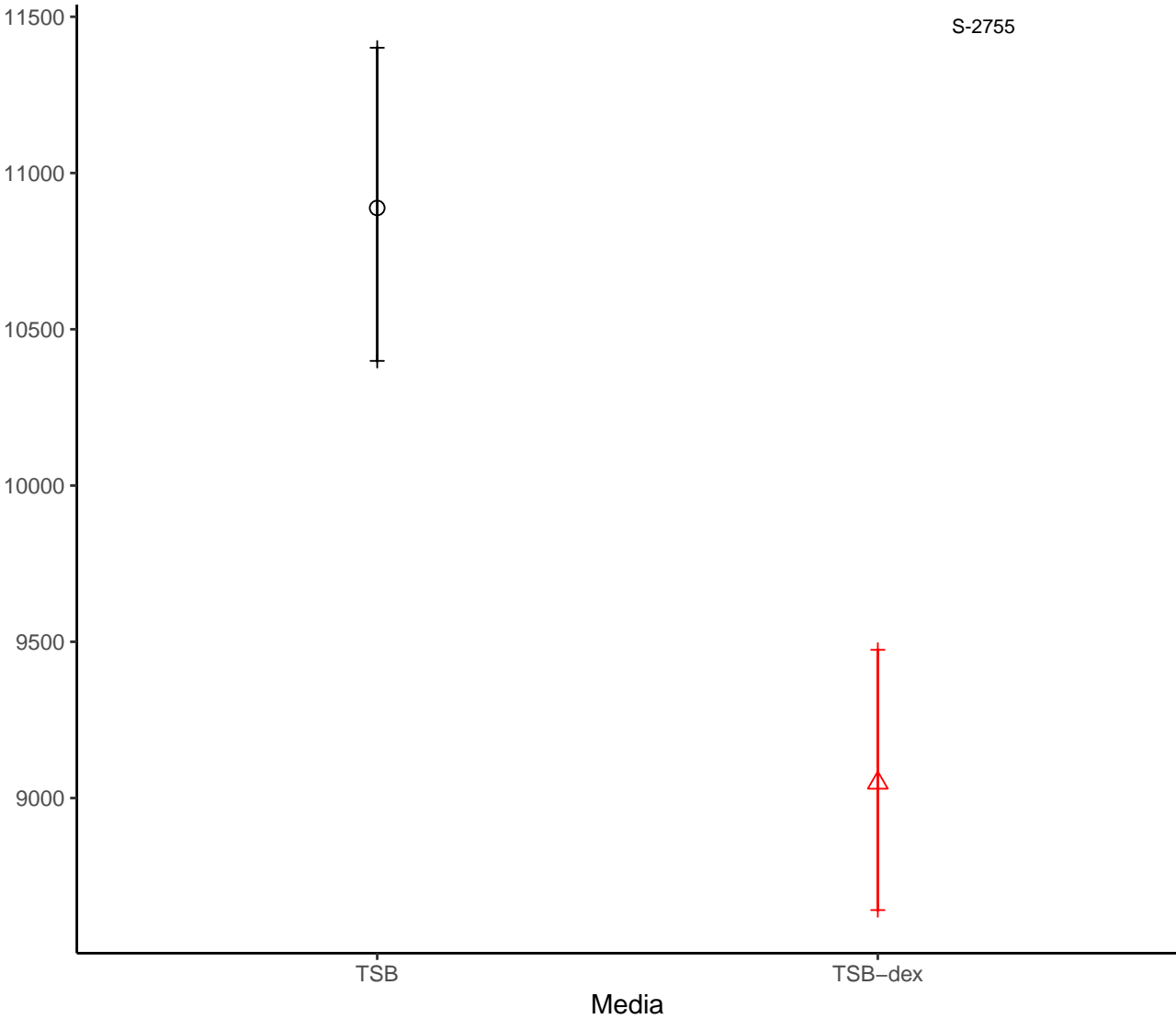
# PARC\_STAAM



⊕ TSB-dex

△ TSB

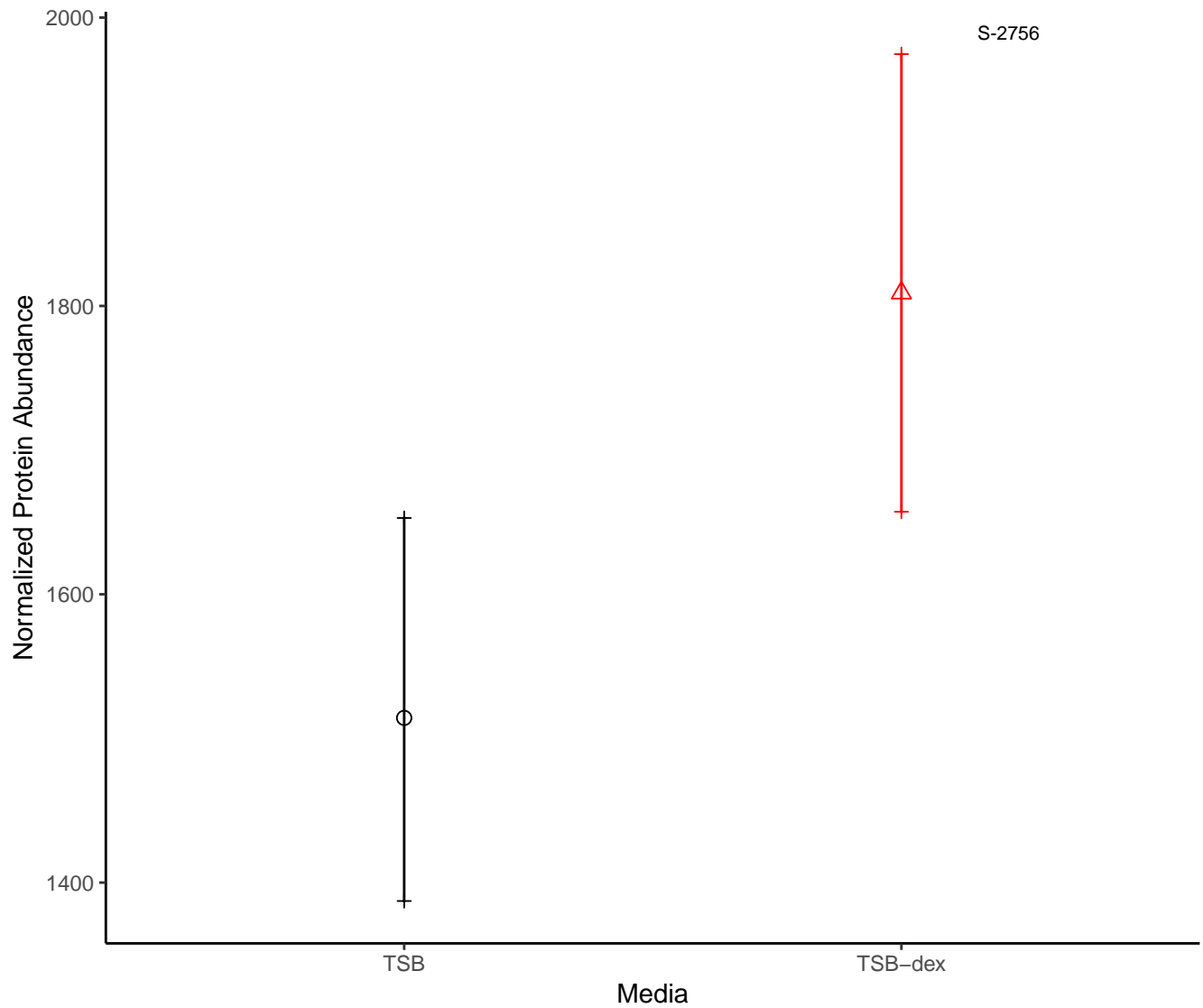
# PCKA\_STAAM



⊕ TSB-dex

△ TSB

# PCRA\_STAAM

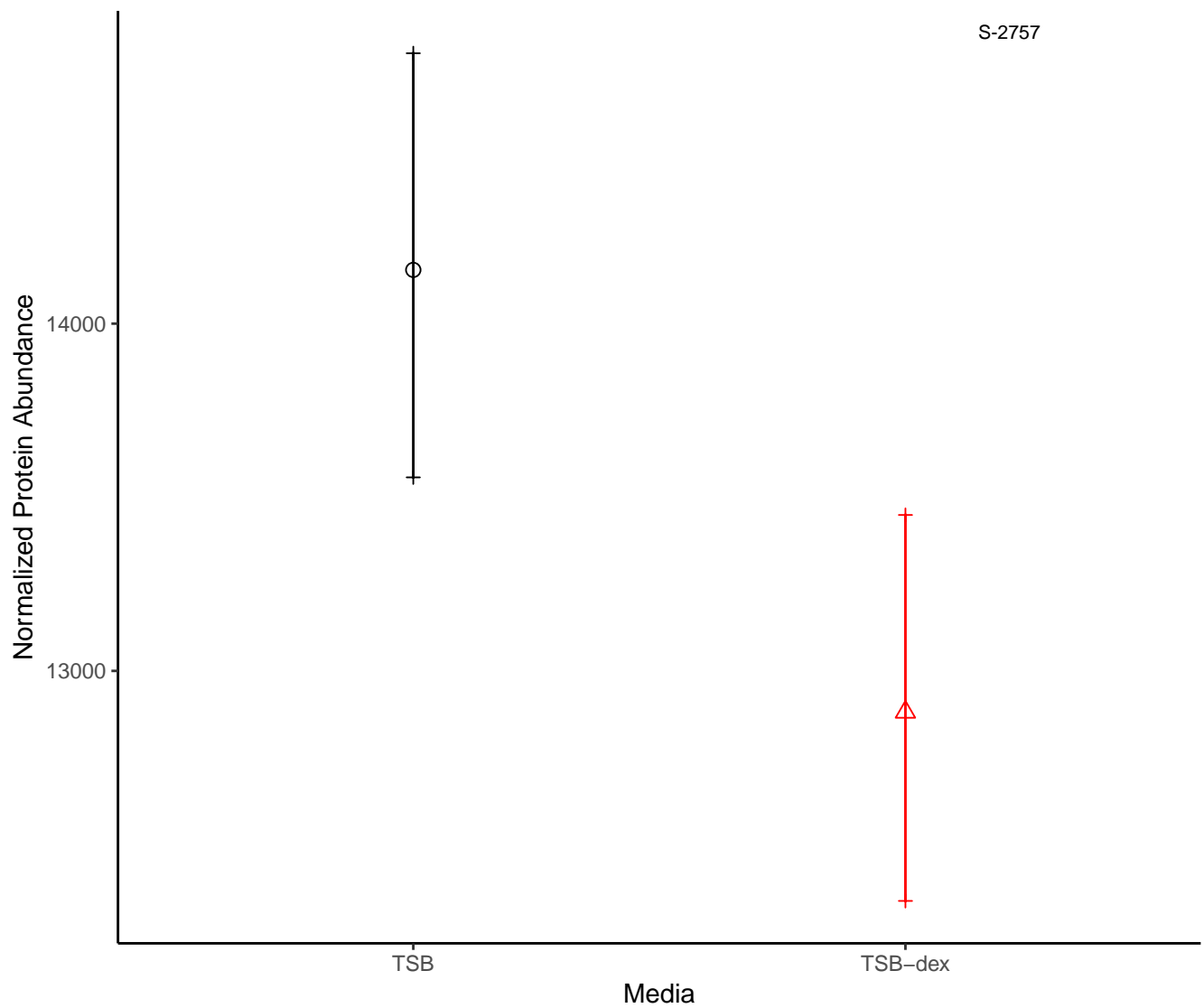


⊕ TSB-dex

△ TSB

# PDP\_STAAM

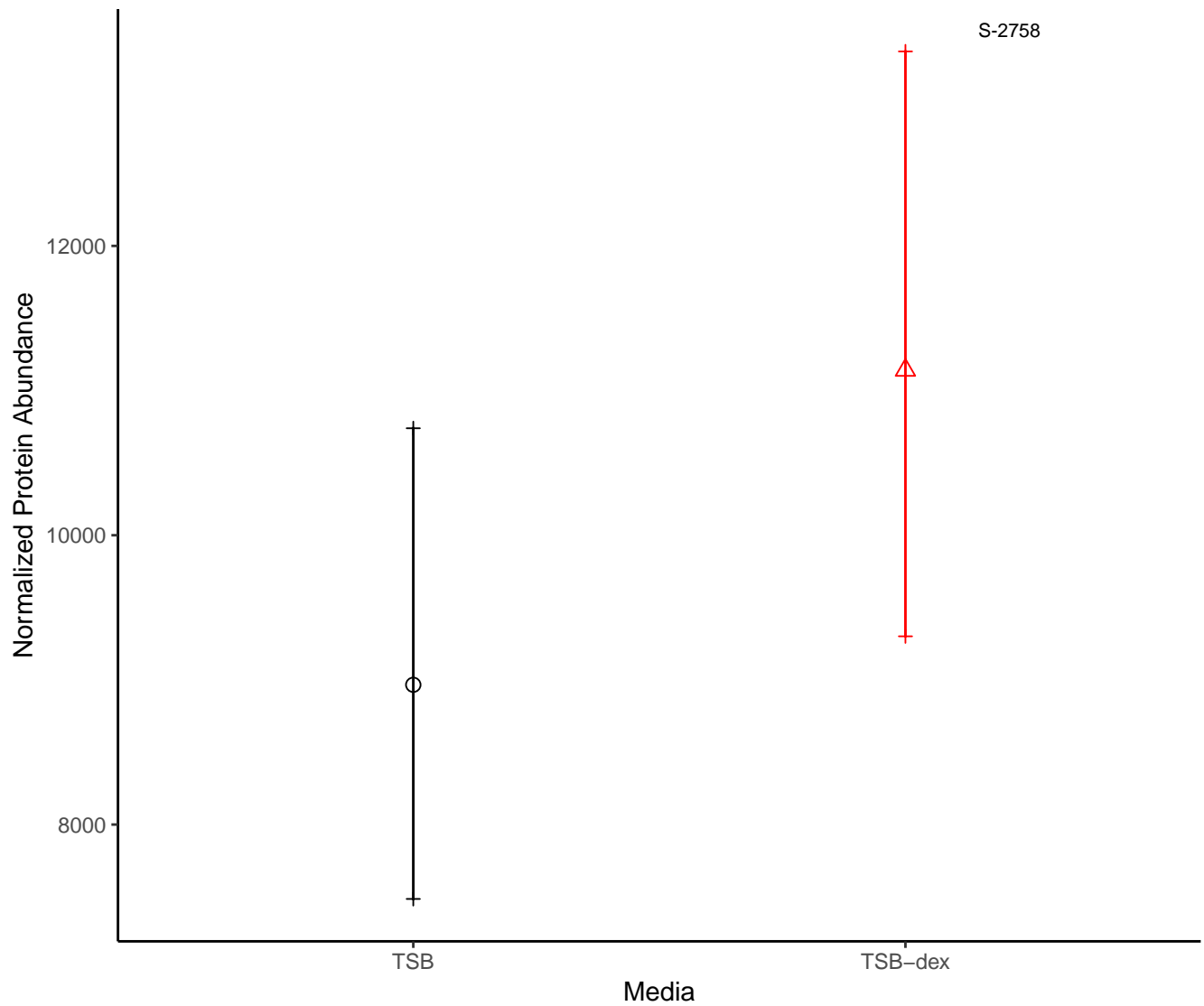
S-2757



⊕ TSB-dex

△ TSB

# PDRP\_STAAM

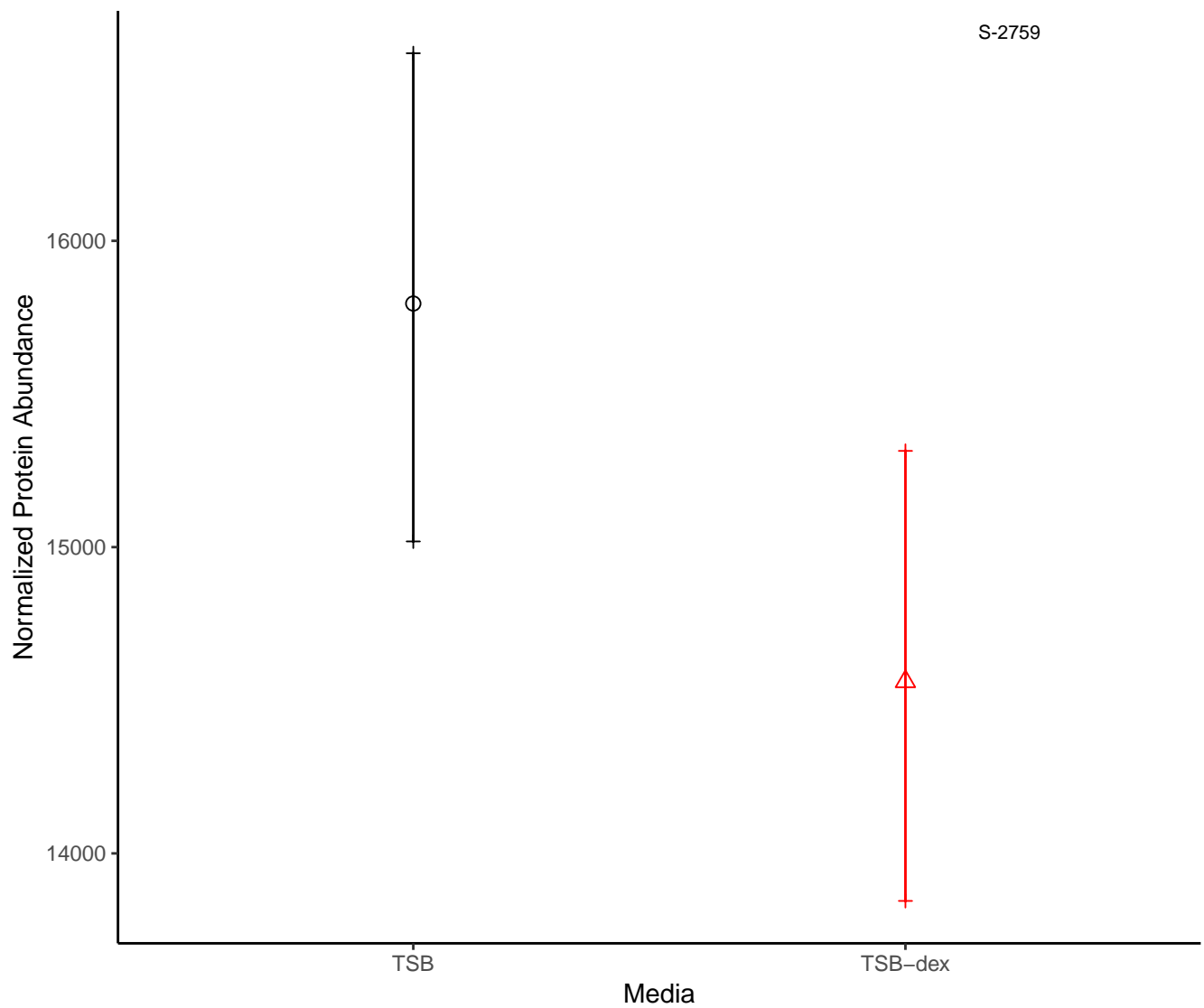


⊖ TSB-dex

△ TSB

# PDXS\_STAAM

S-2759

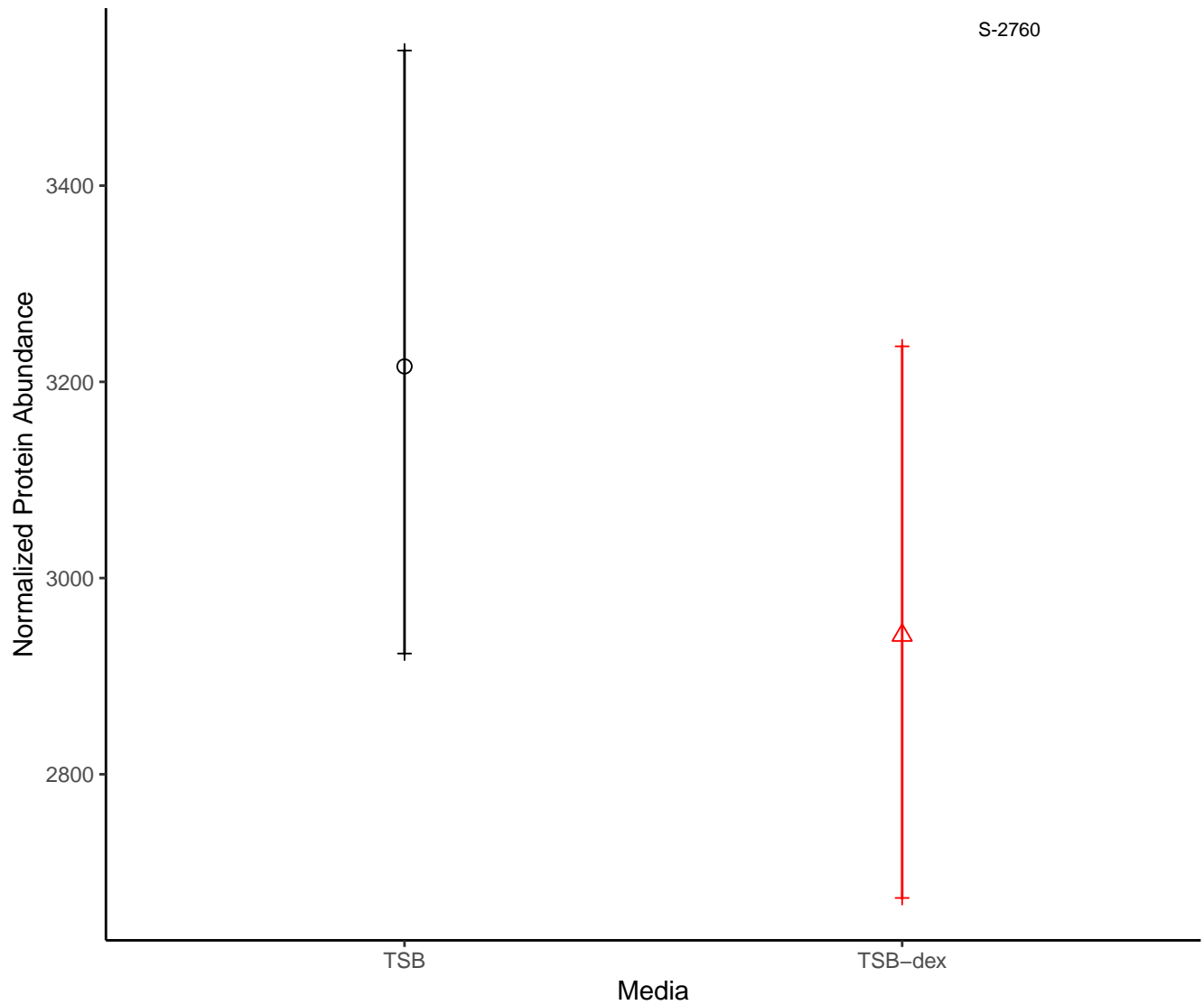


⊕ TSB-dex

△ TSB

# PDXT\_STAAM

S-2760

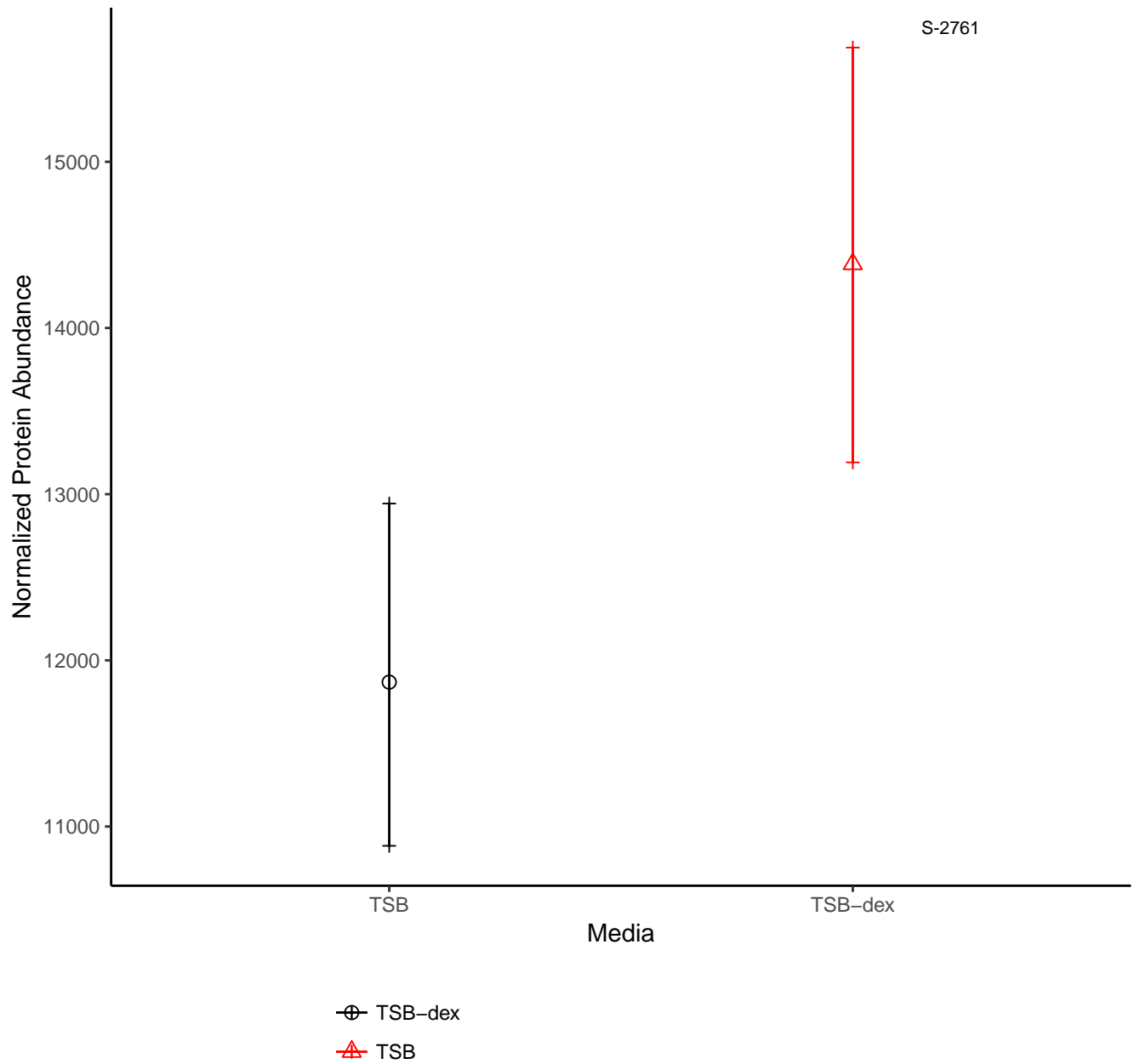


⊕ TSB-dex

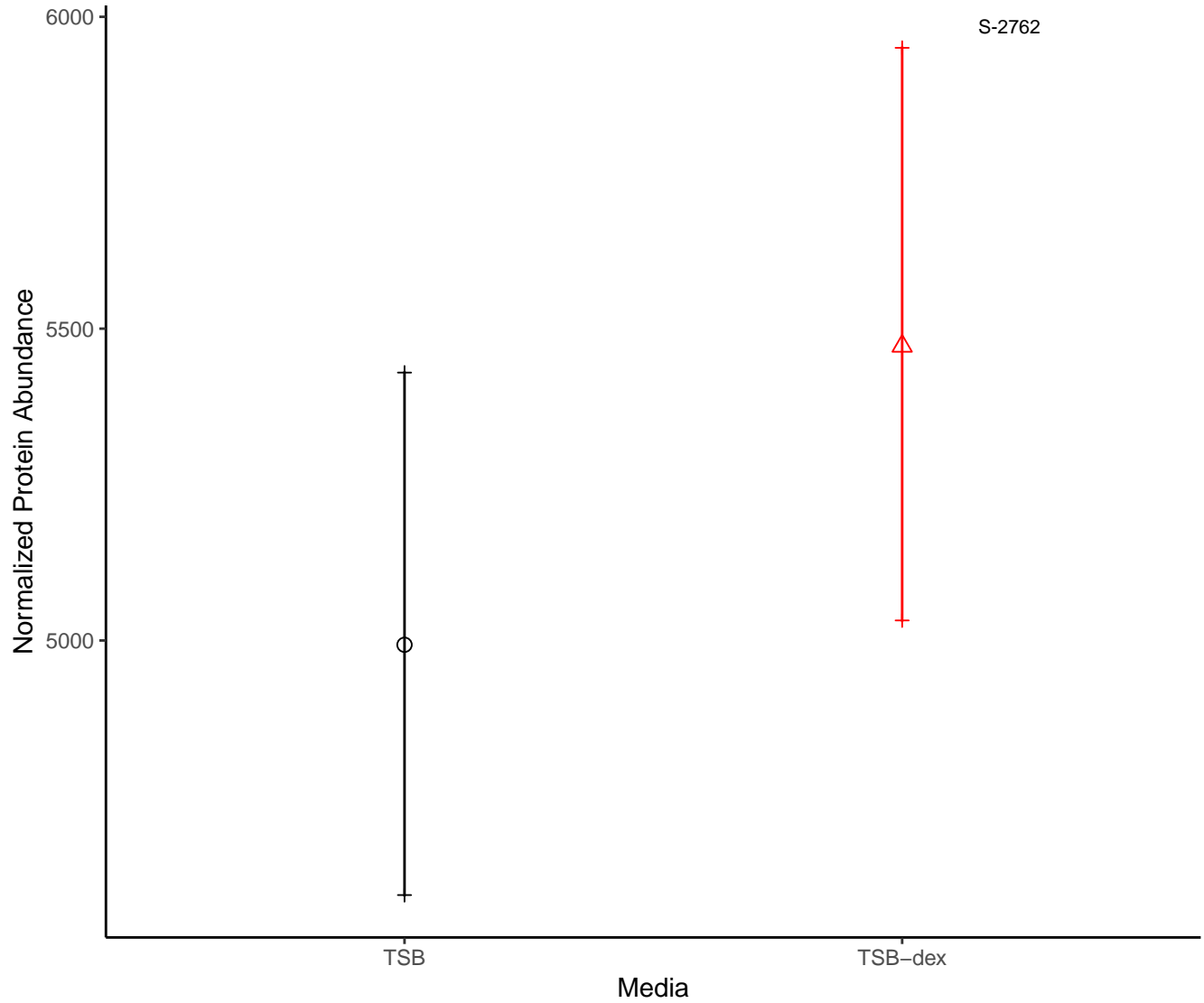
△ TSB



# PEPVL\_STAAM



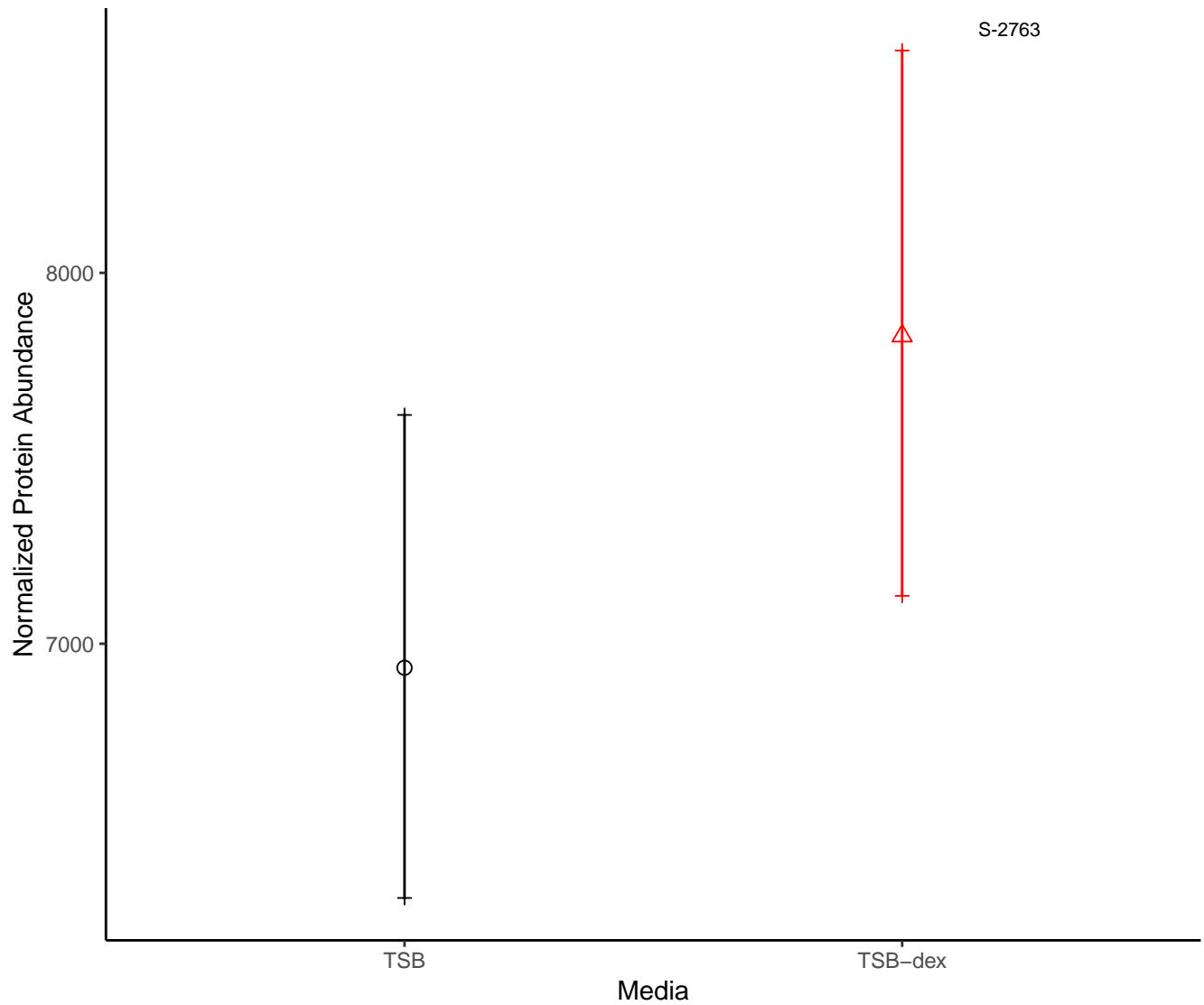
# PERR\_STAAM



⊕ TSB-dex

△ TSB

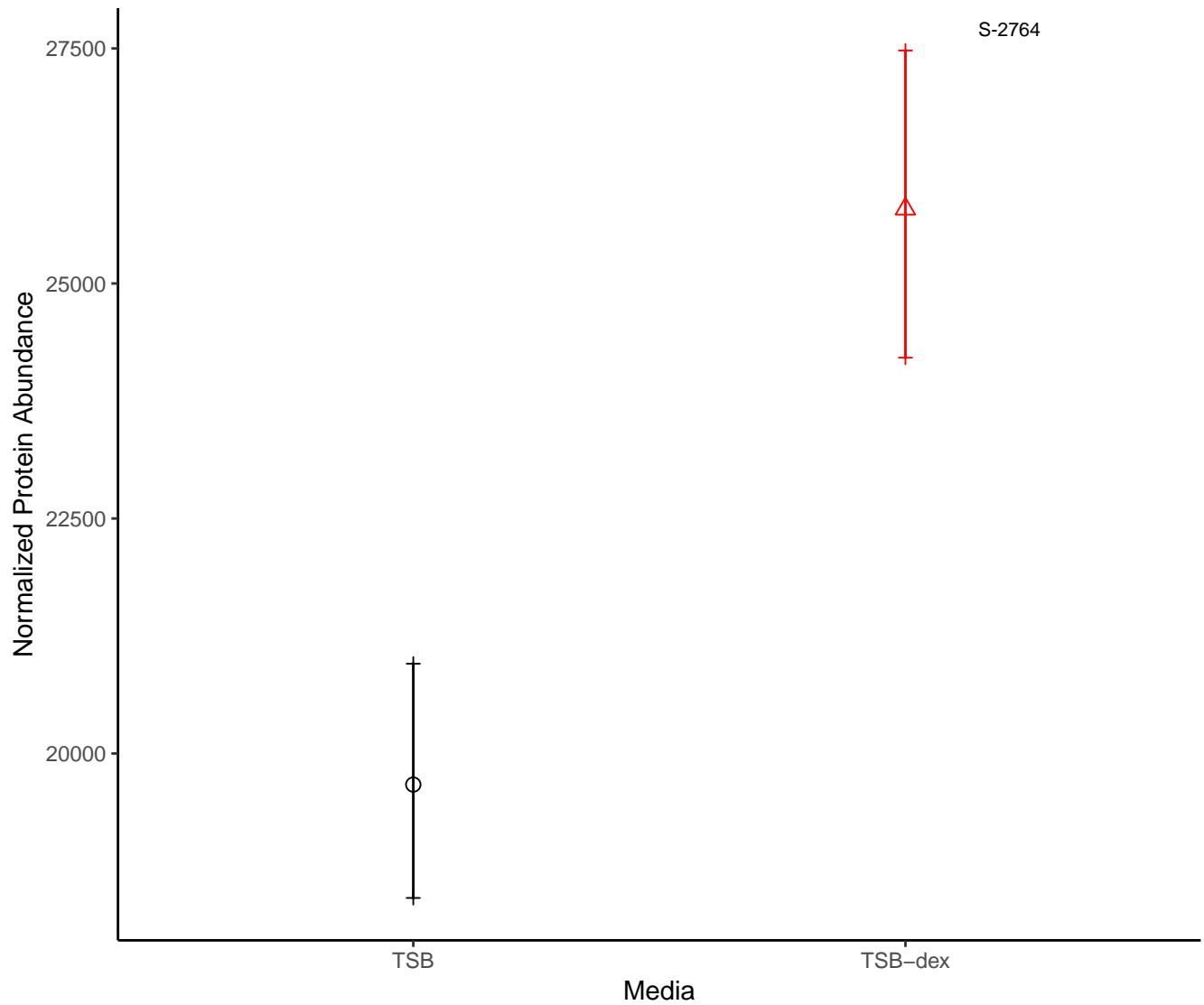
# PFKA\_STAAM



⊕ TSB-dex

△ TSB

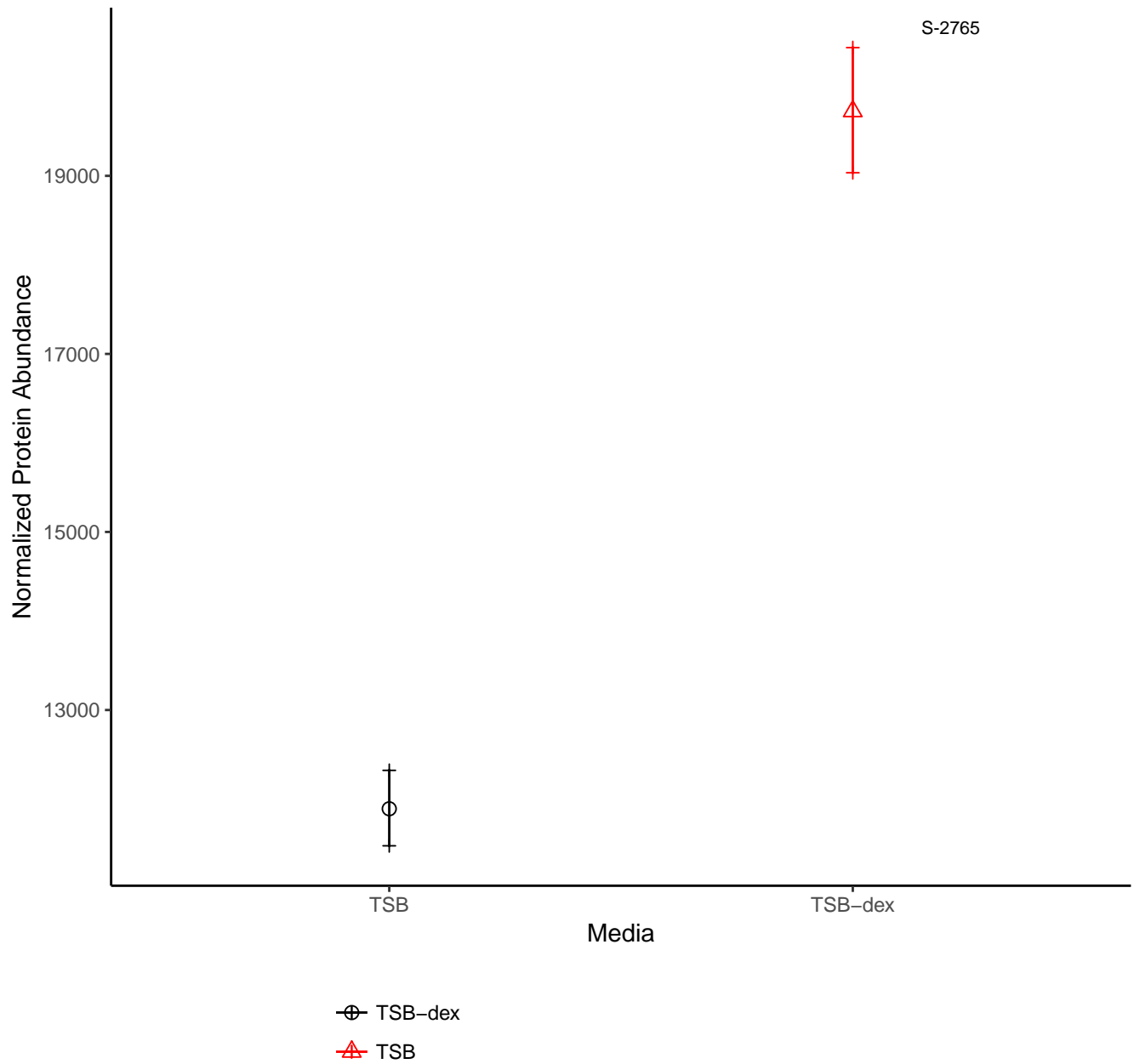
# PFLA\_STAAM



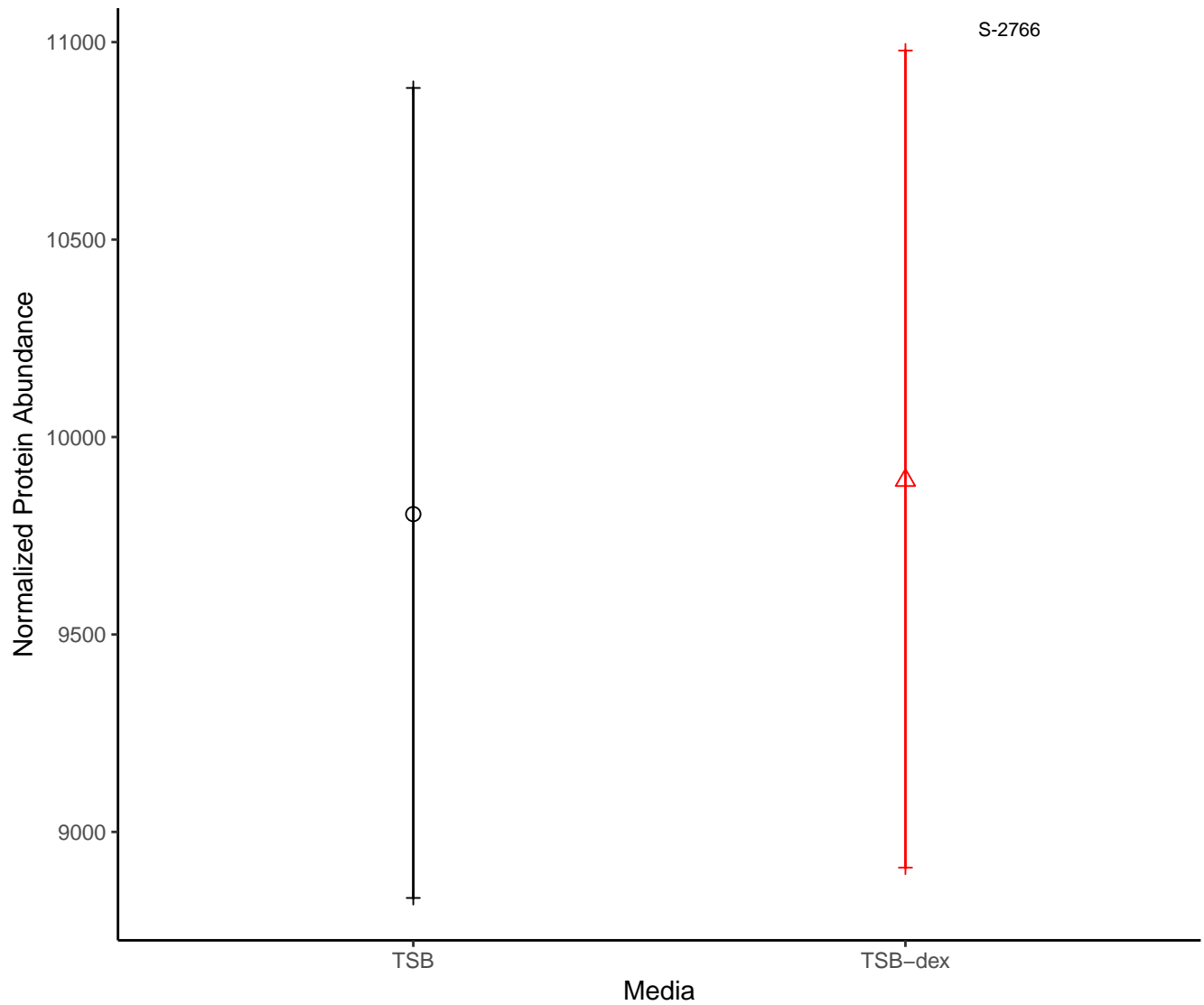
⊕ TSB-dex

△ TSB

# PFLB\_STAAM



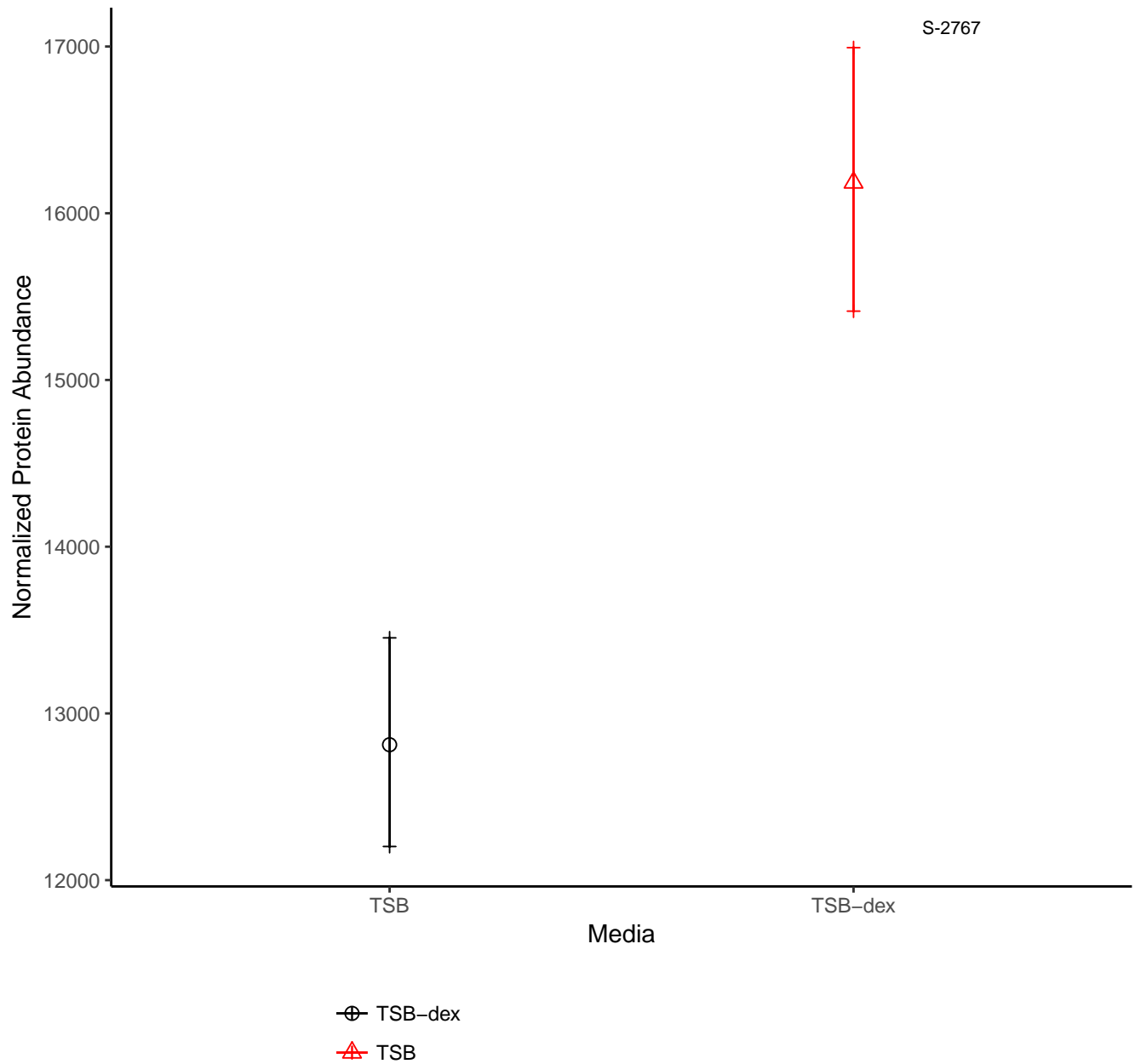
# PGCA\_STAAM



⊕ TSB-dex

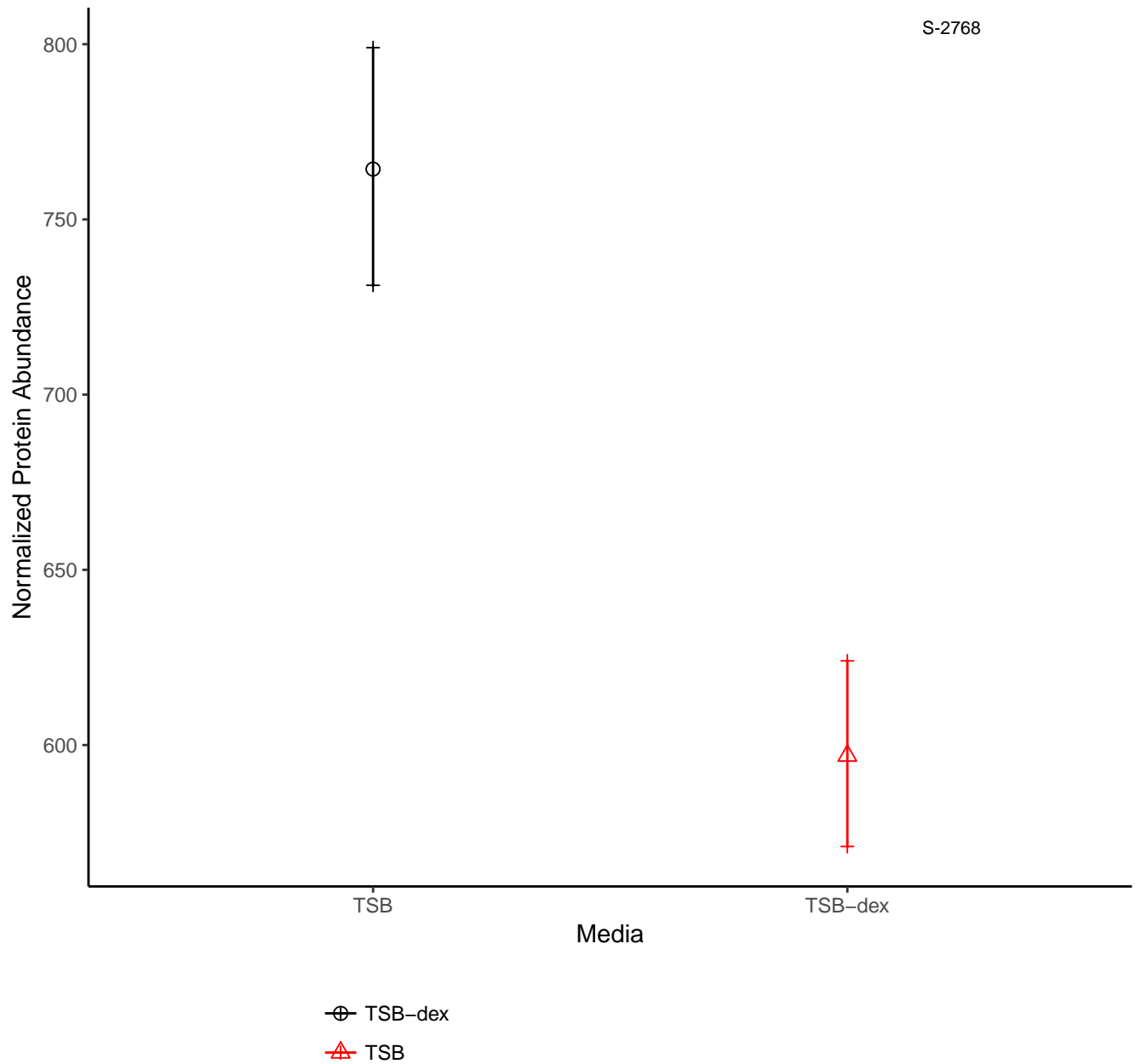
△ TSB

# PGK\_STAAM



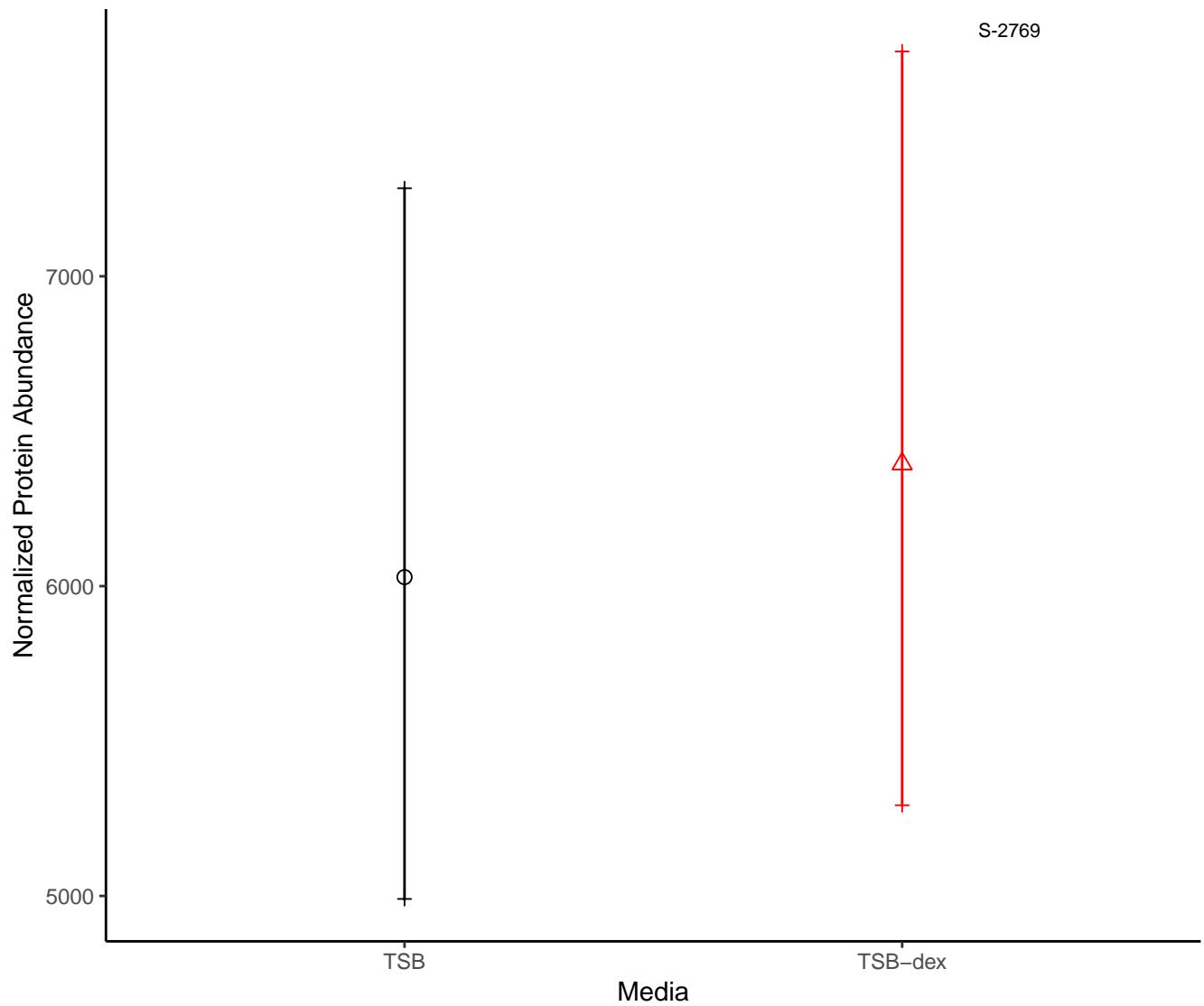
# PHNC\_STAAM

S-2768





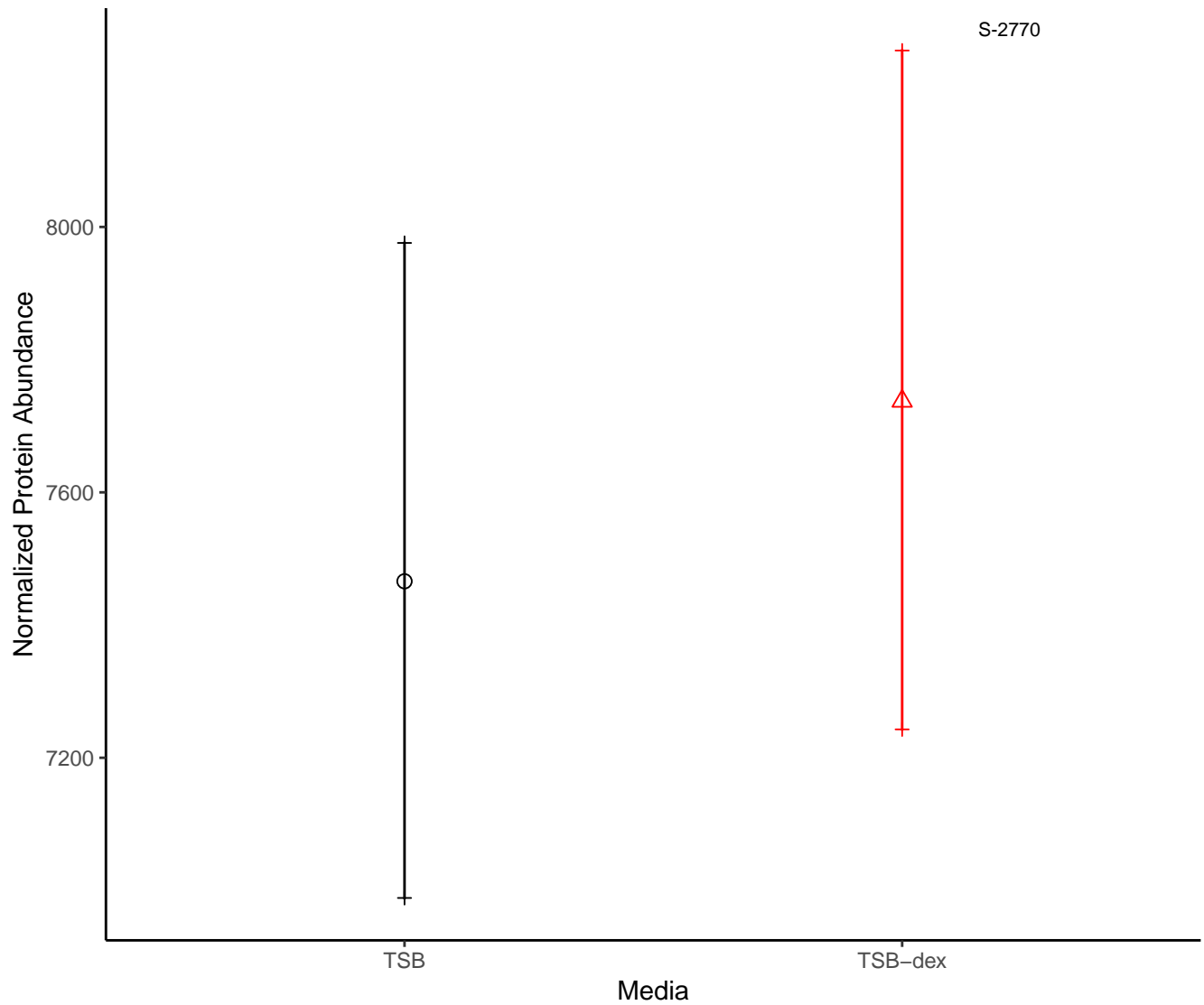
# PLSX\_STAAM



⊕ TSB-dex

△ TSB

# PNP\_STAAM

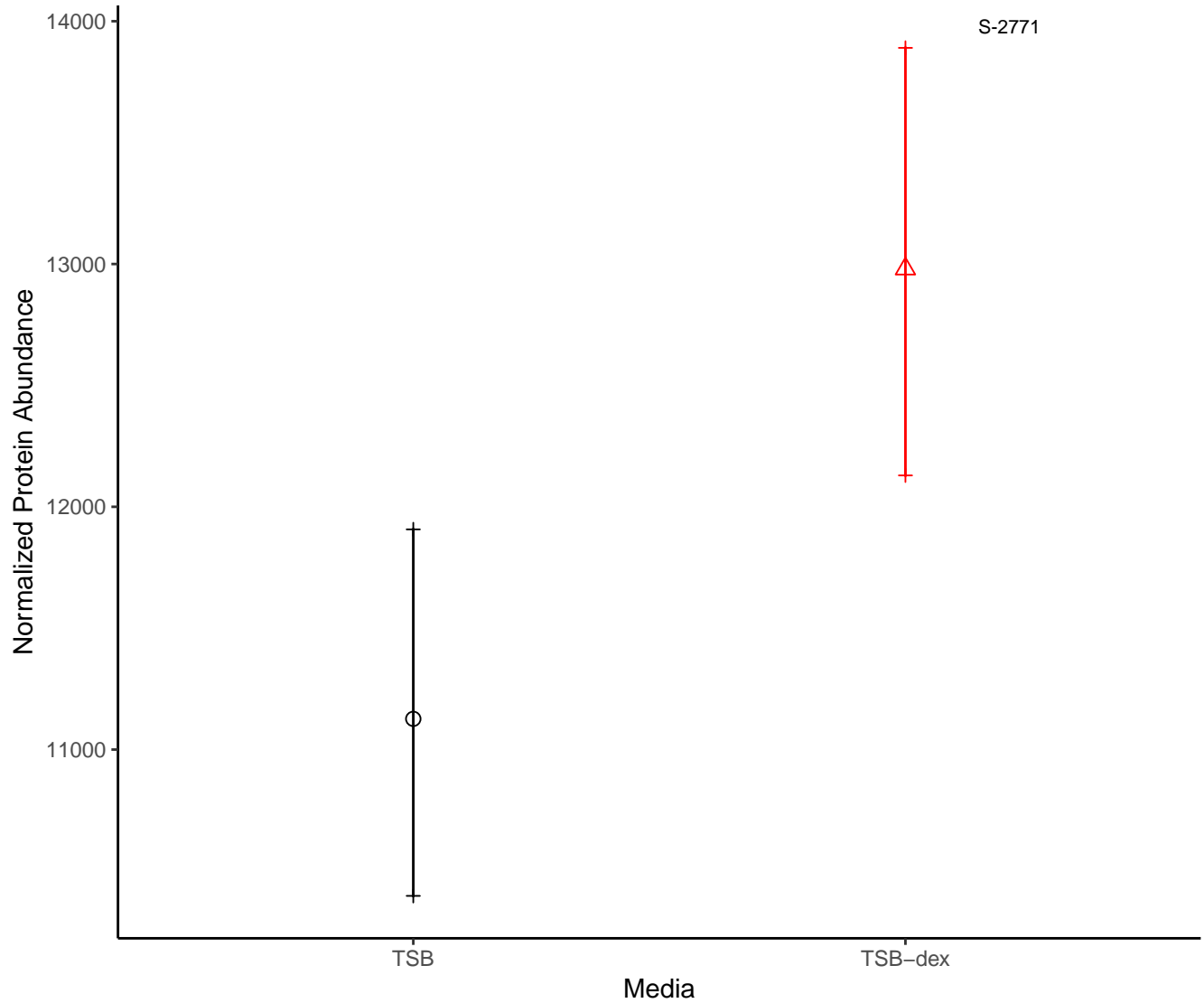


S-2770

⊕ TSB-dex

△ TSB

# PPAC\_STAAM

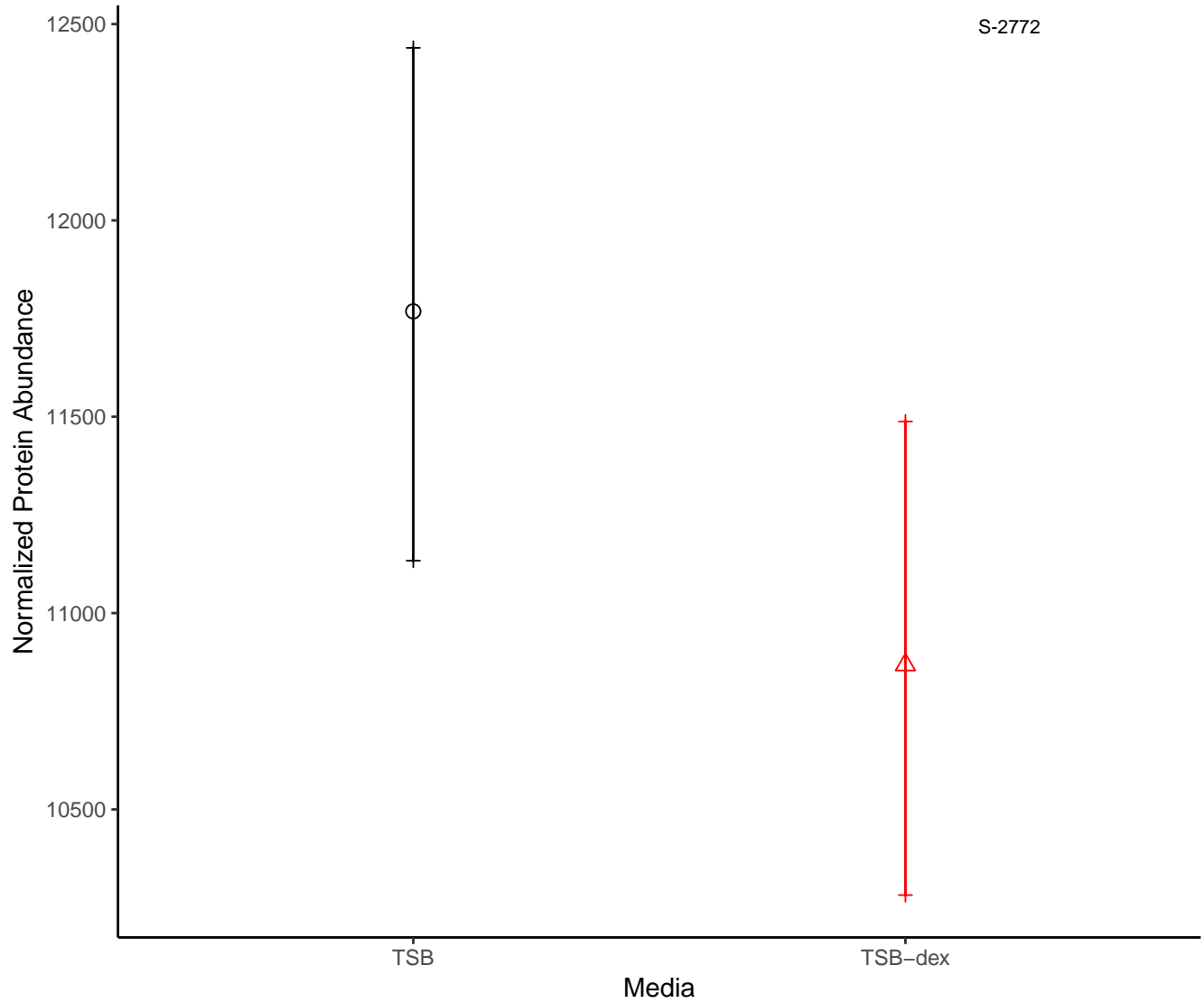


⊕ TSB-dex

△ TSB

# PPAT\_STAAM

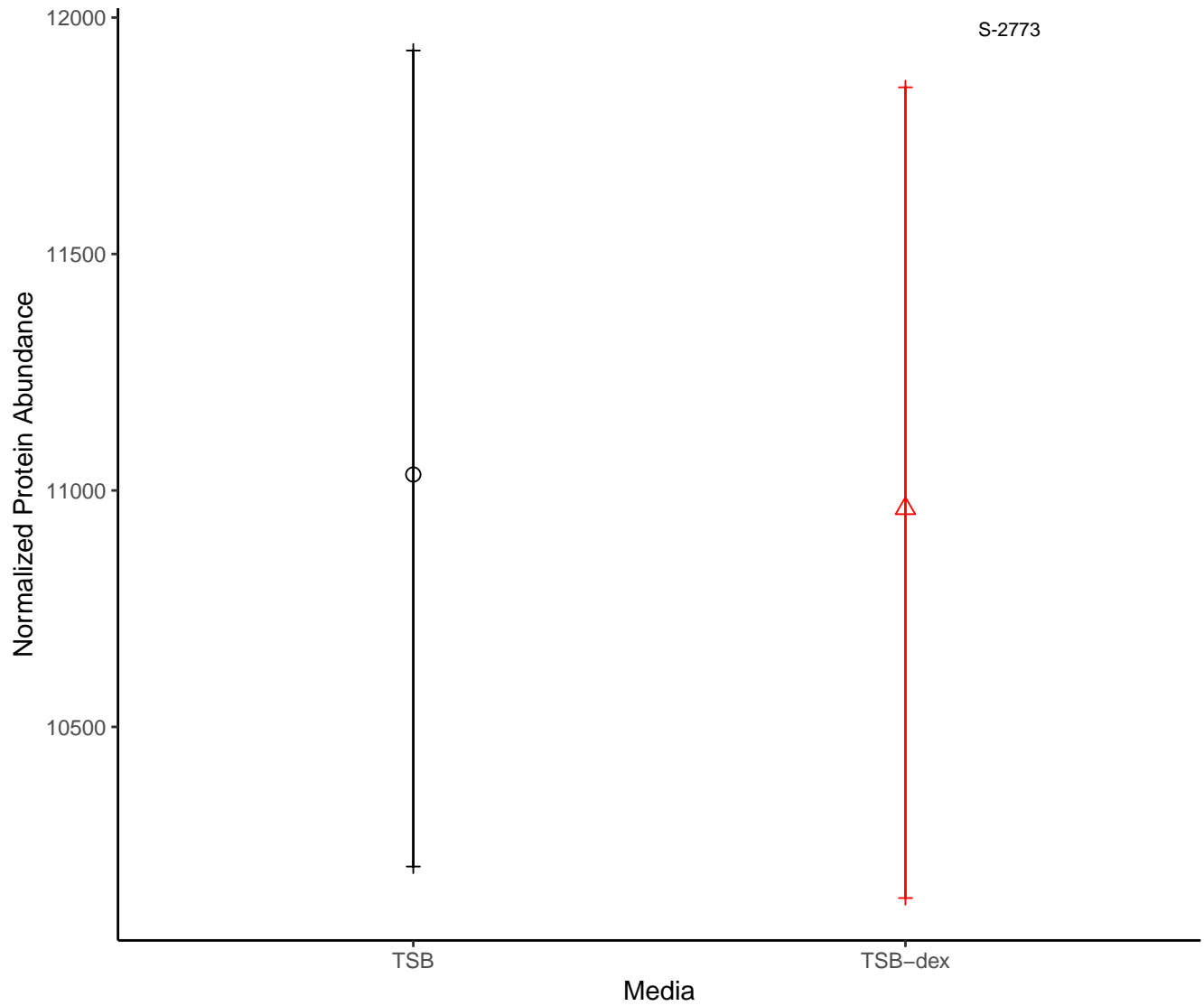
S-2772



⊕ TSB-dex

△ TSB

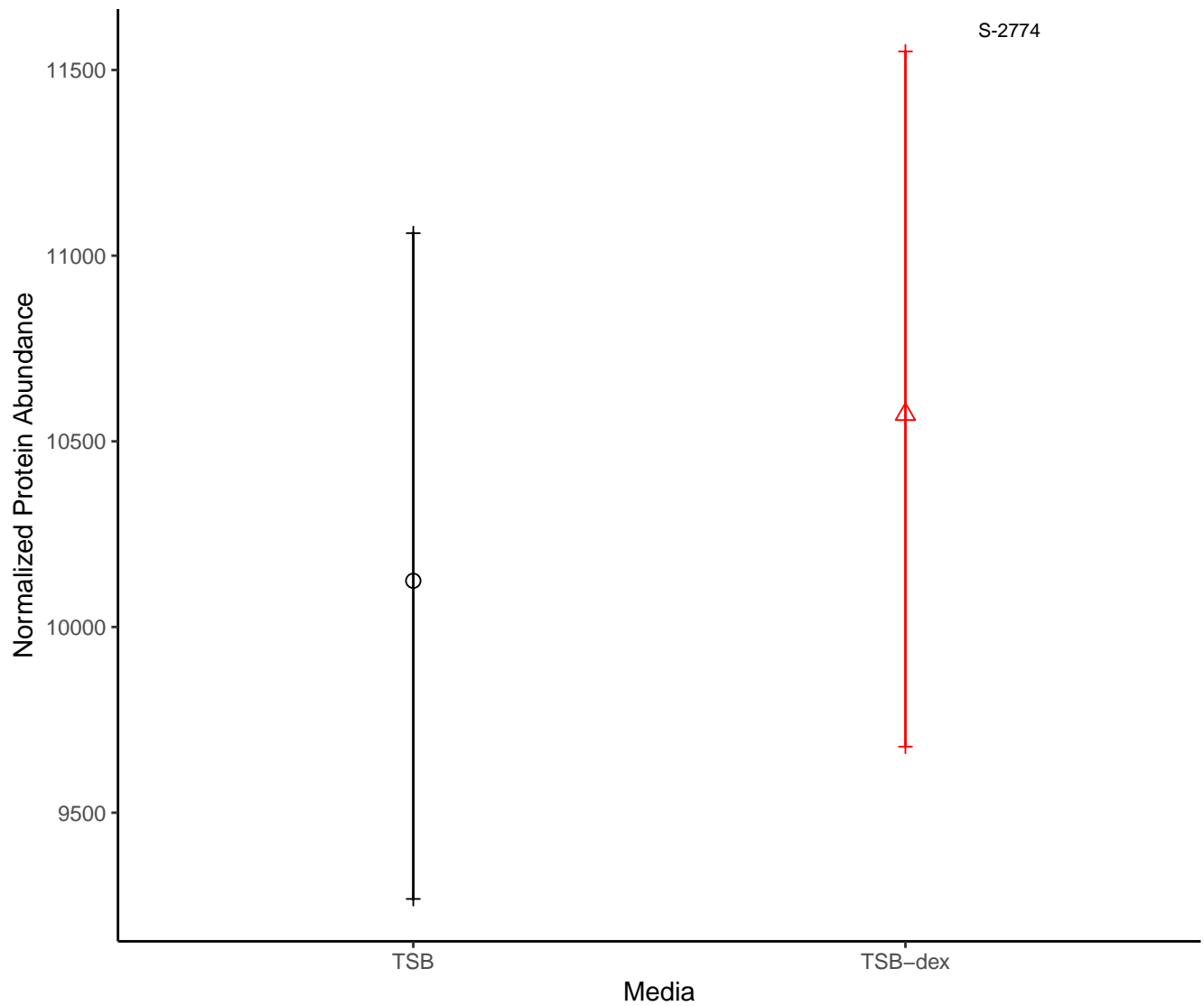
# PPI1\_STAAM



⊕ TSB-dex

△ TSB

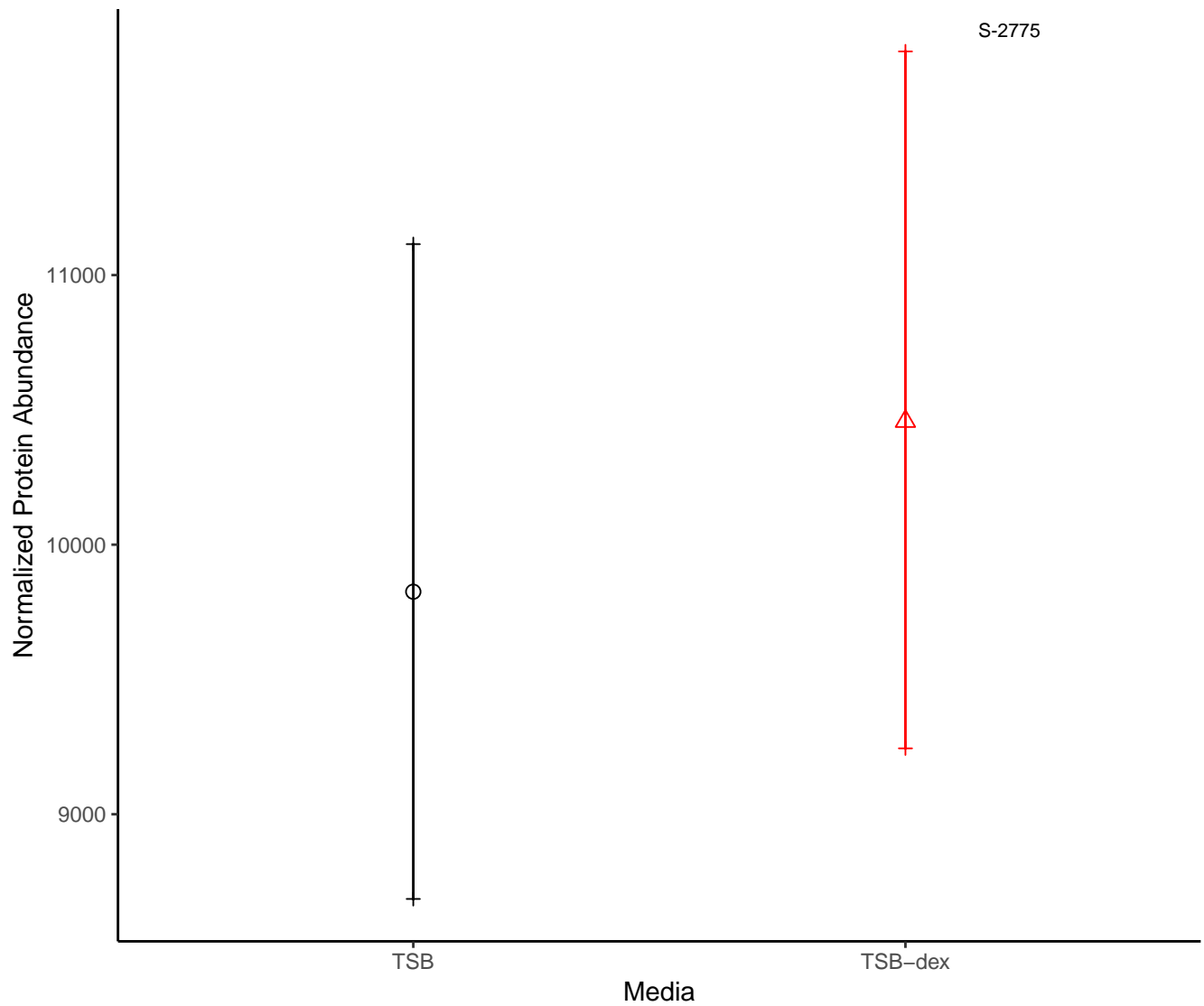
# PRSA\_STAAM



⊕ TSB-dex

△ TSB

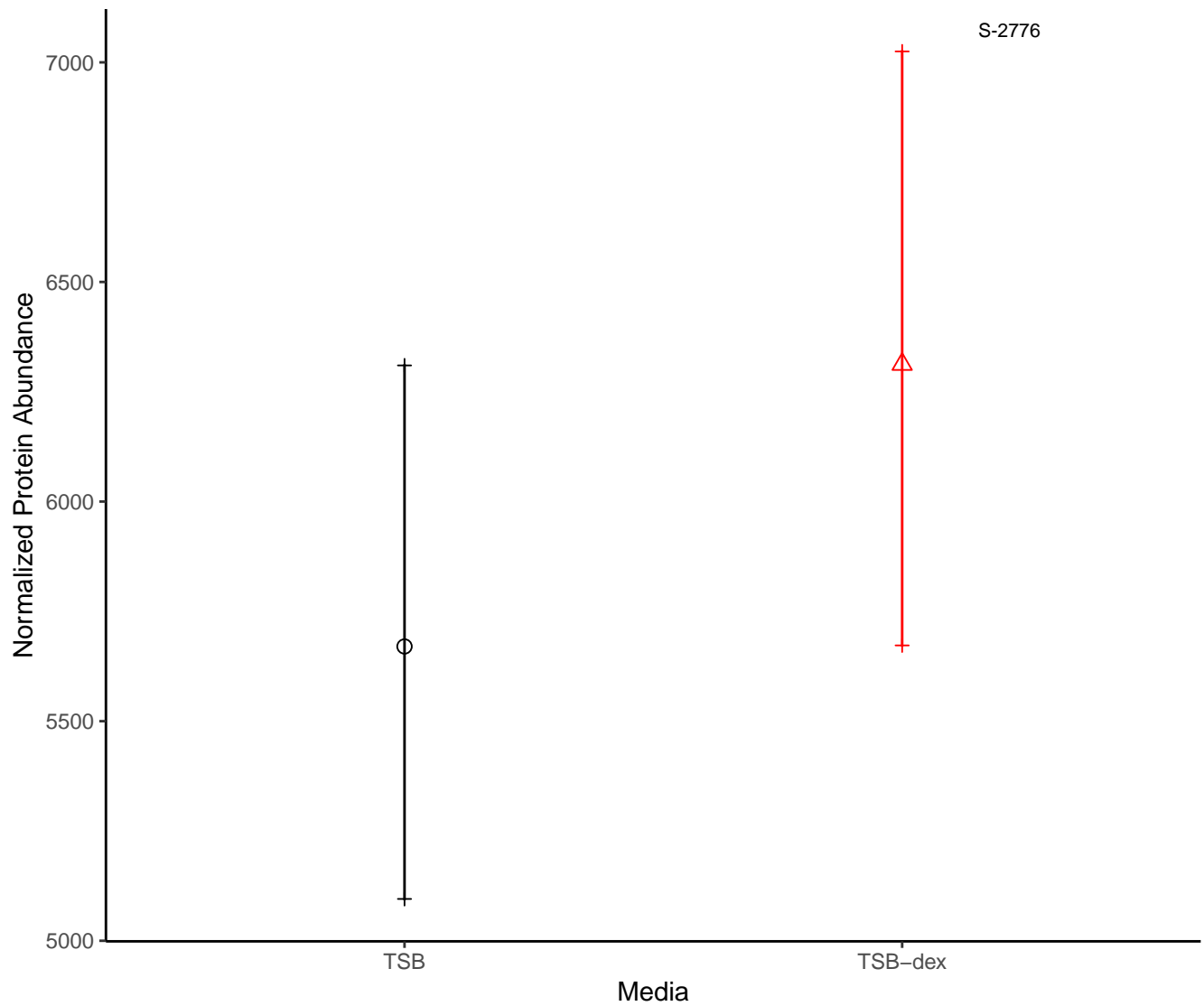
# PSTB\_STAAM



⊕ TSB-dex

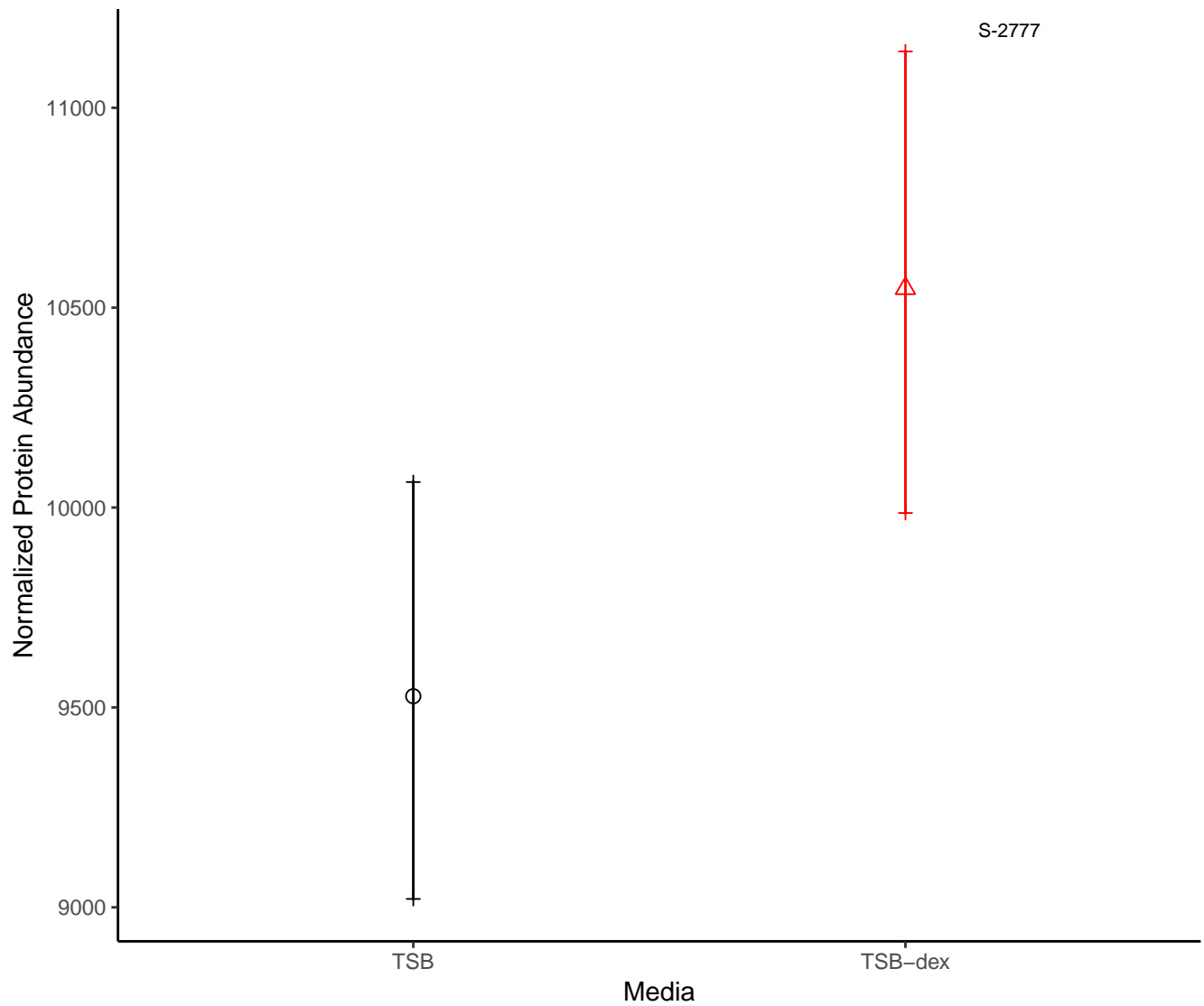
△ TSB

# PSTS\_STAAM





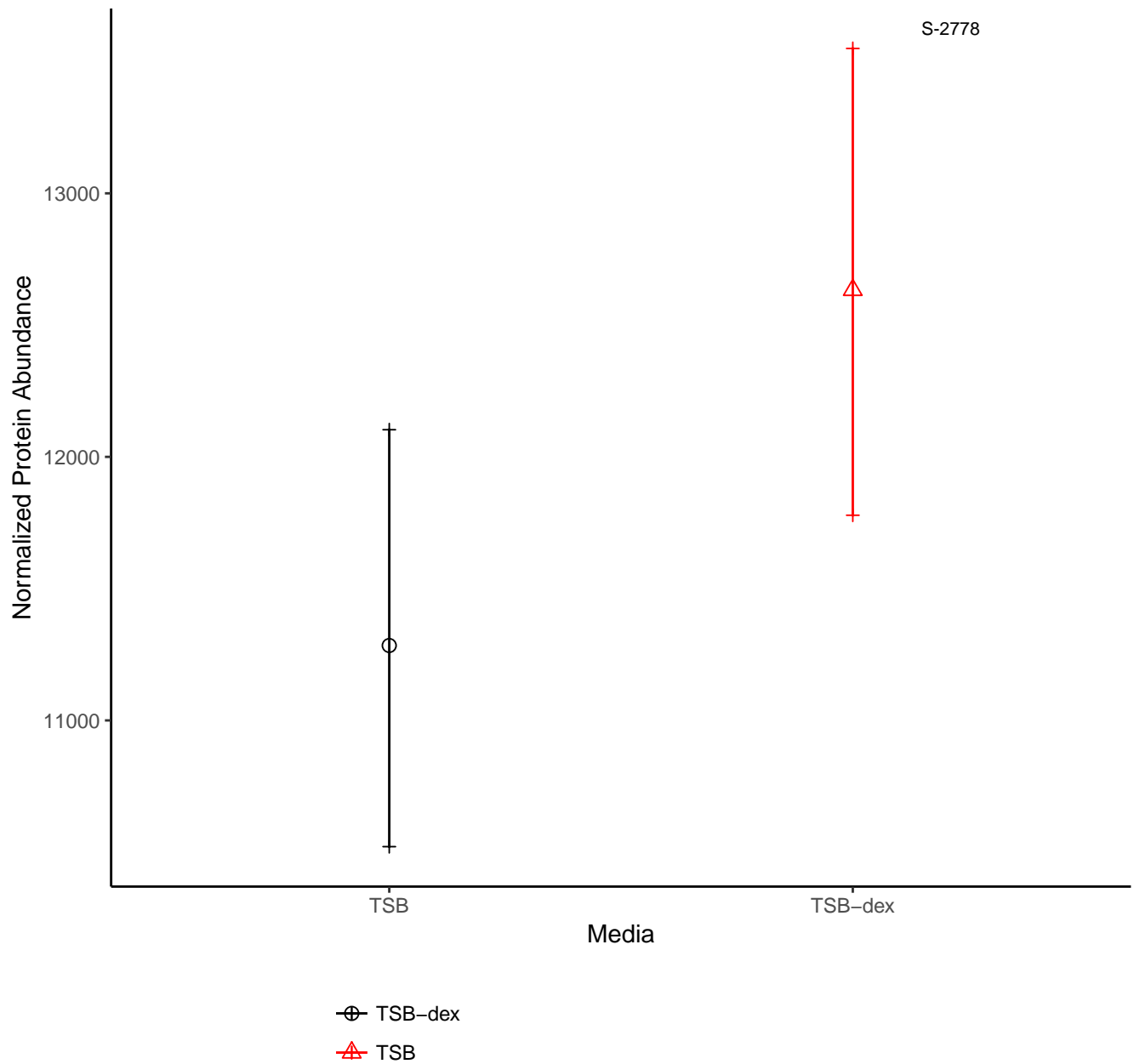
# PT1\_STAAM



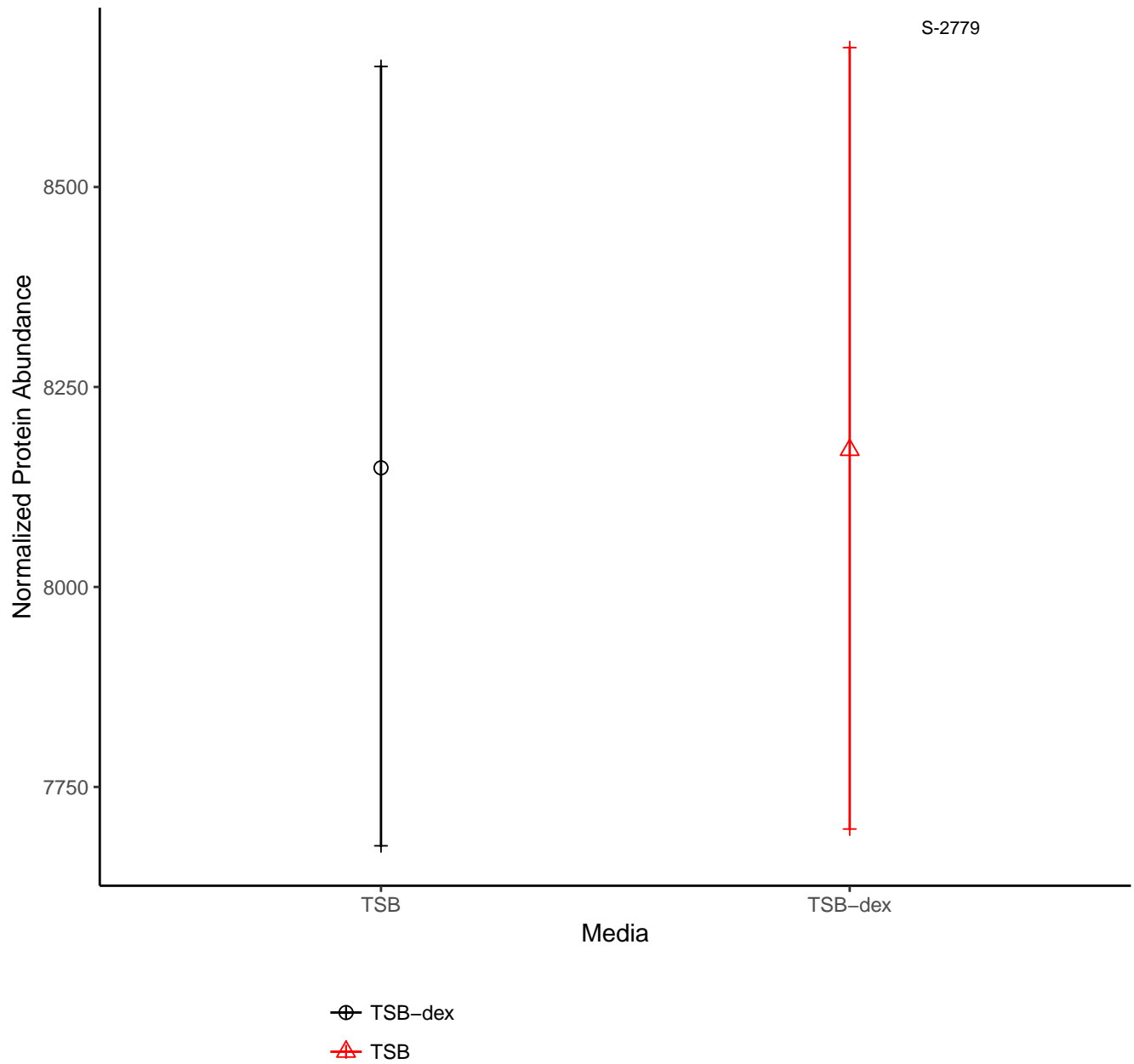
⊕ TSB-dex

△ TSB

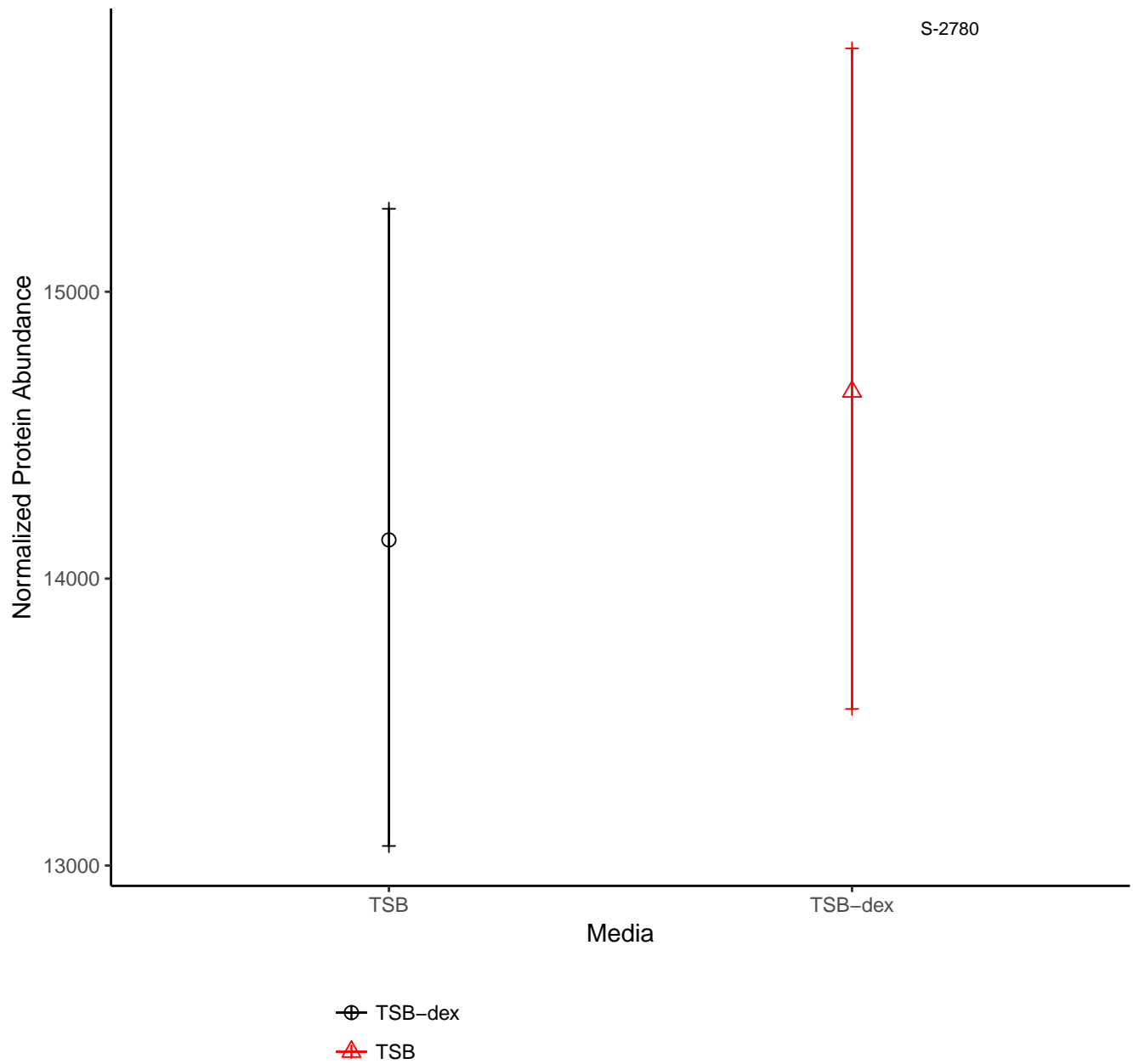
# PTAS\_STAAM



# PTG3C\_STAAM

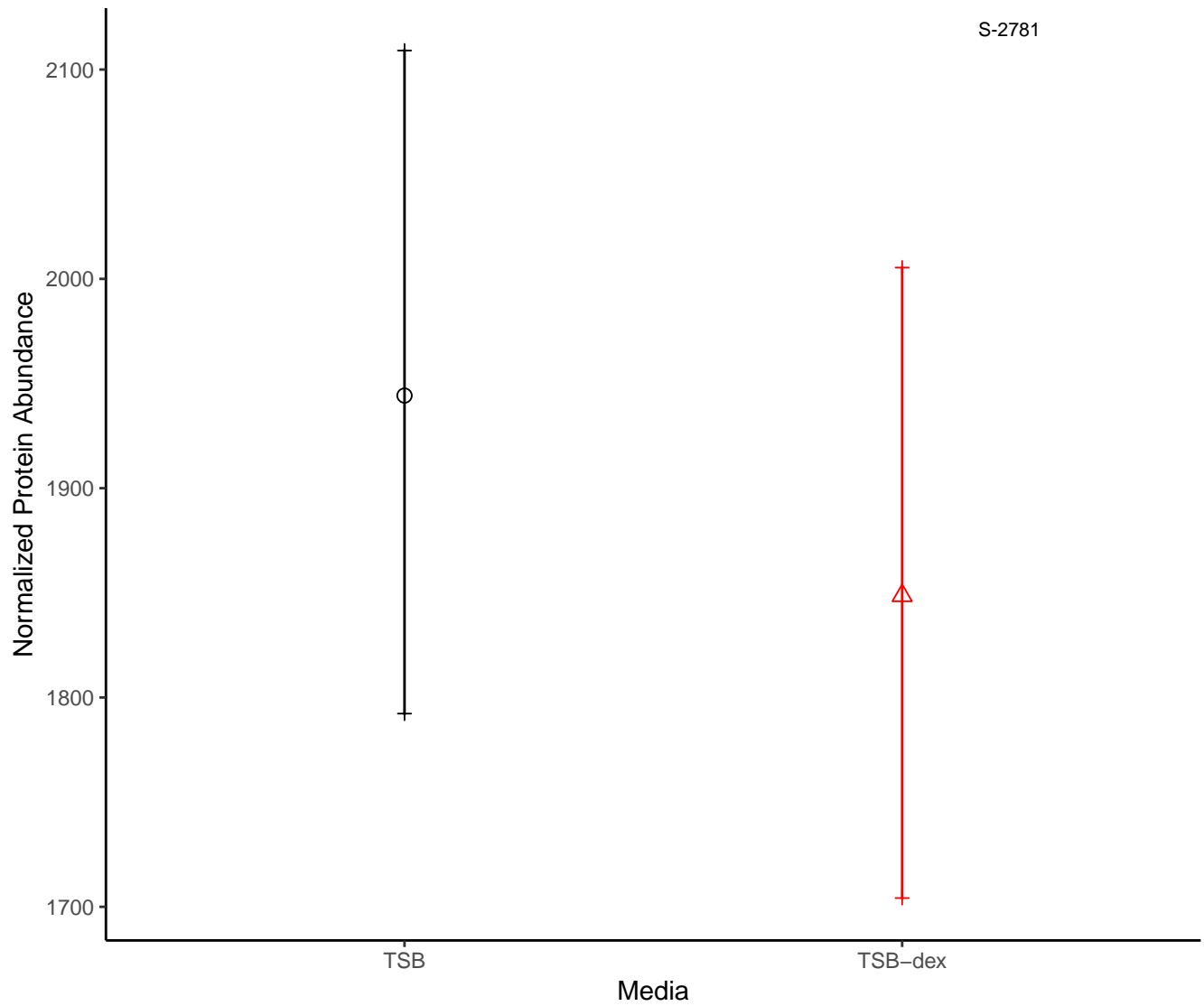


# PTGA\_STAAM



# PTH\_STAAM

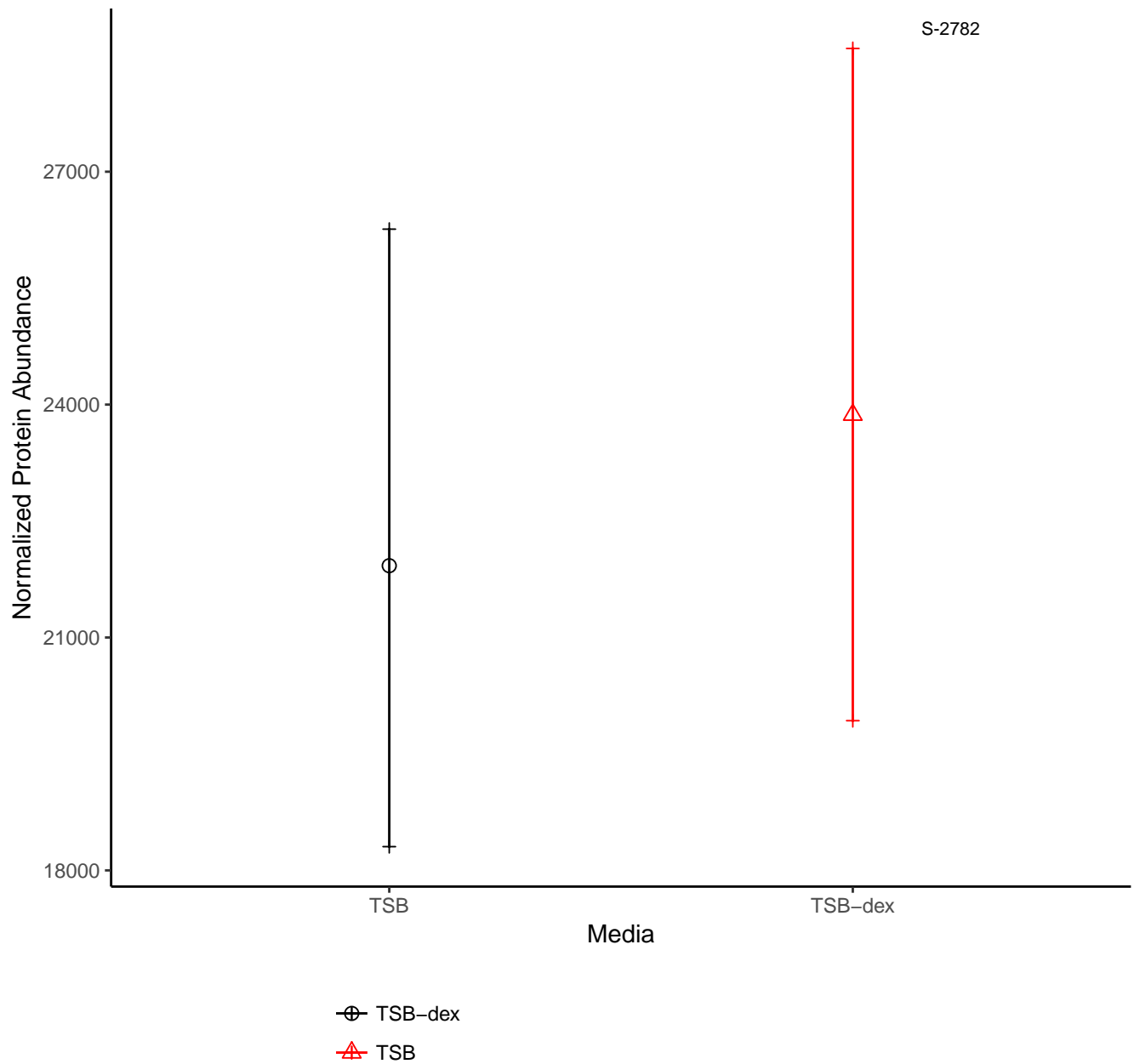
S-2781



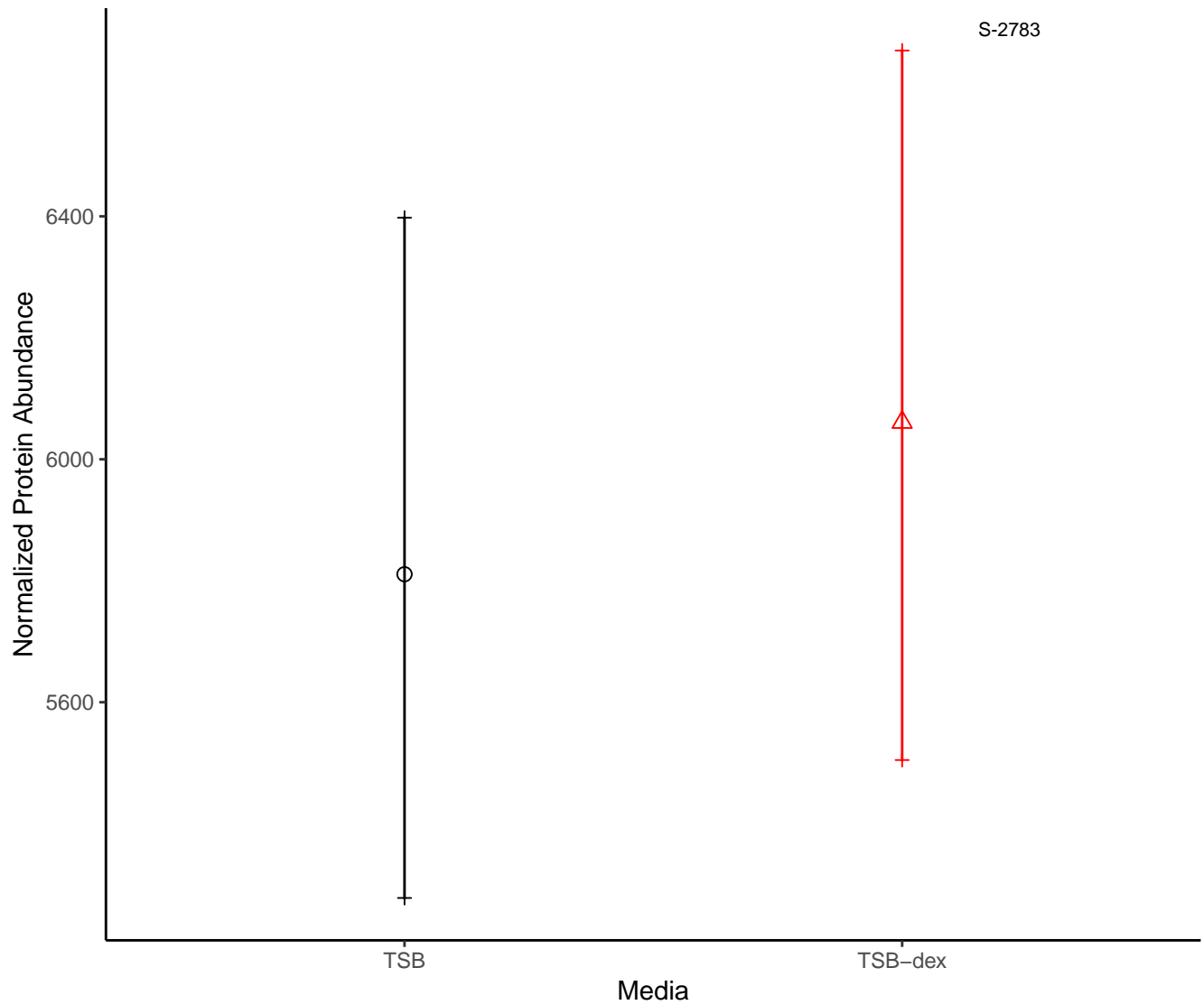
⊕ TSB-dex

△ TSB

# PTHP\_STAAM



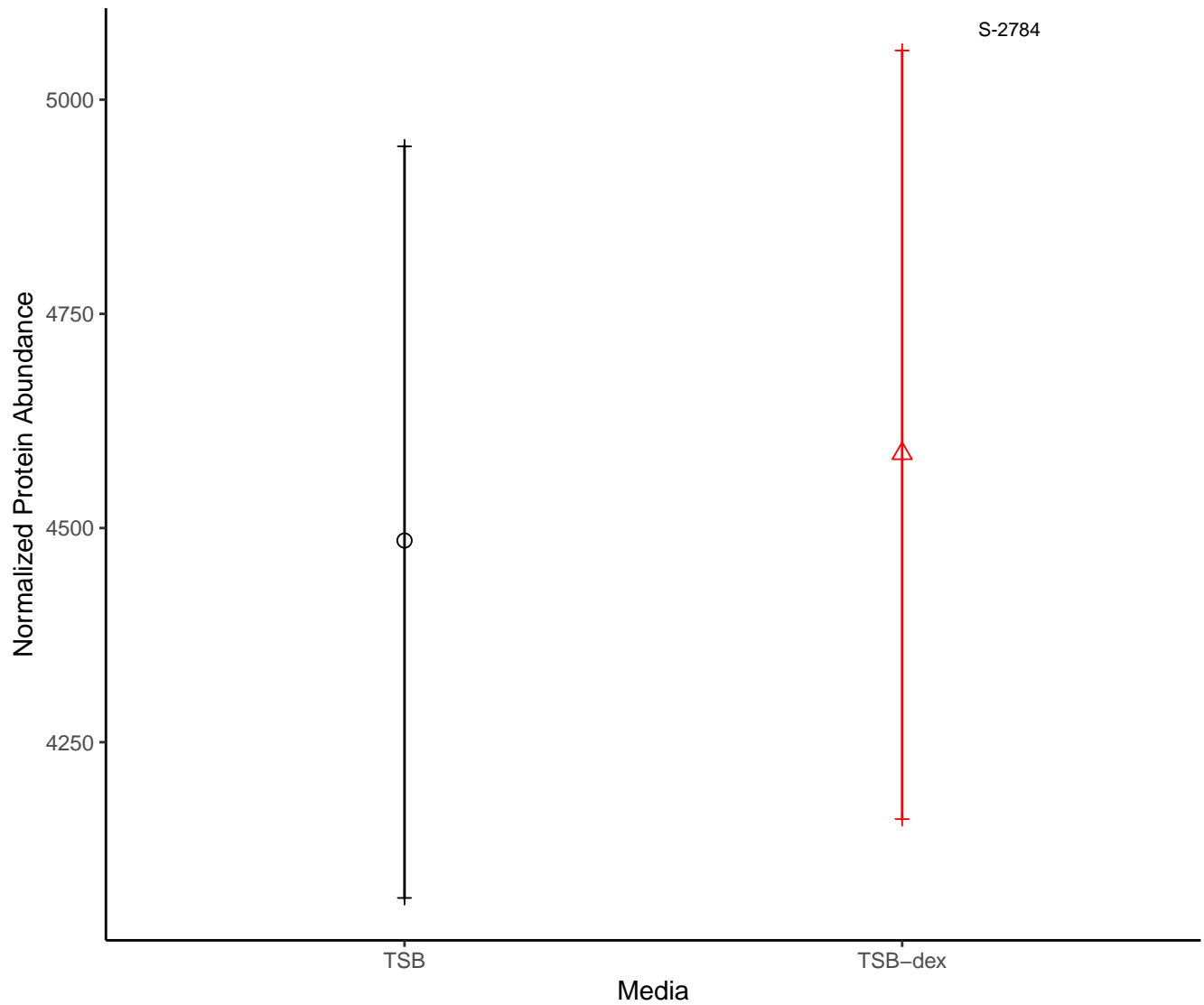
# PTMA\_STAAM



⊕ TSB-dex

△ TSB

# PUR1\_STAAM

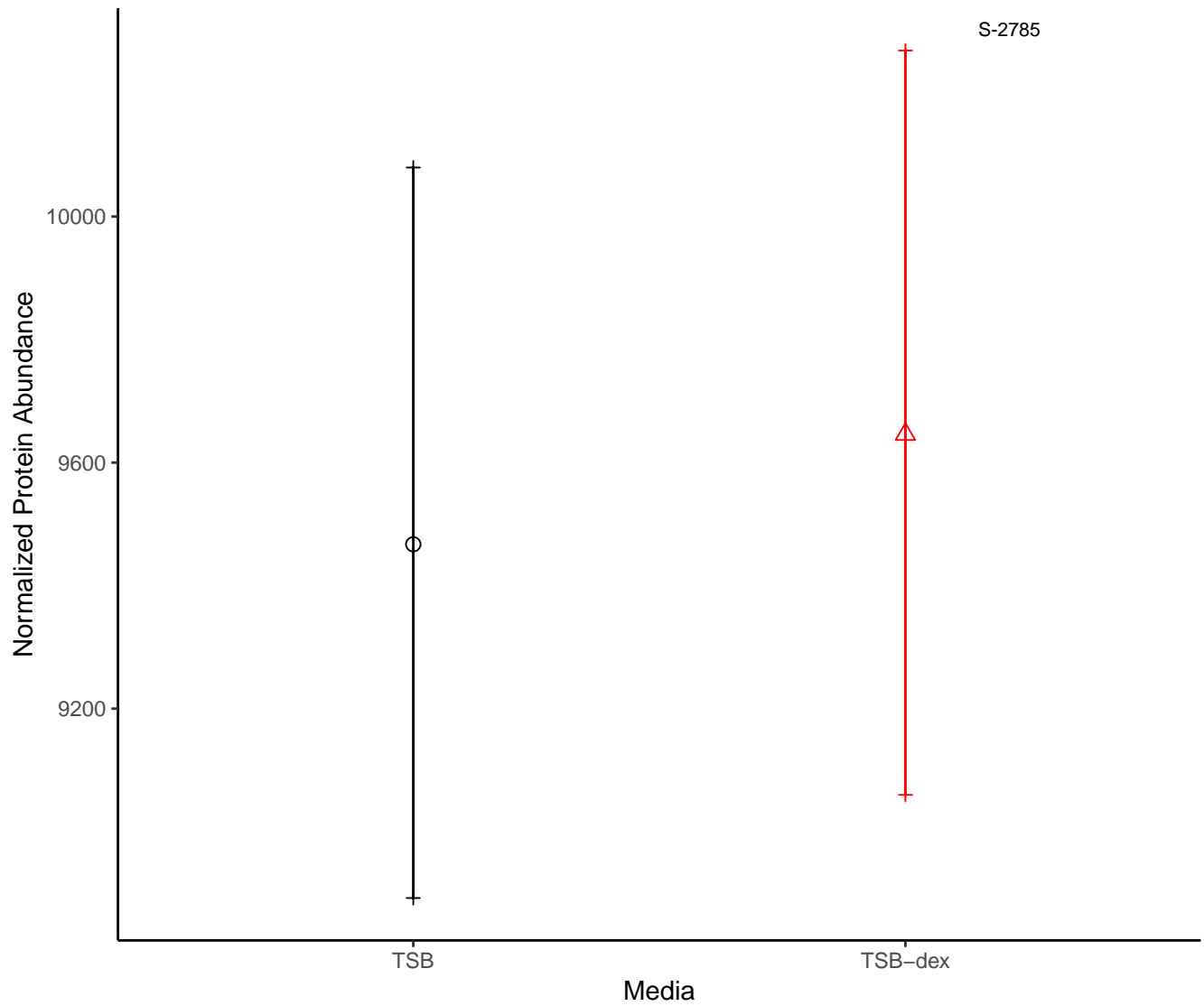


⊕ TSB-dex

△ TSB



# PUR2\_STAAM

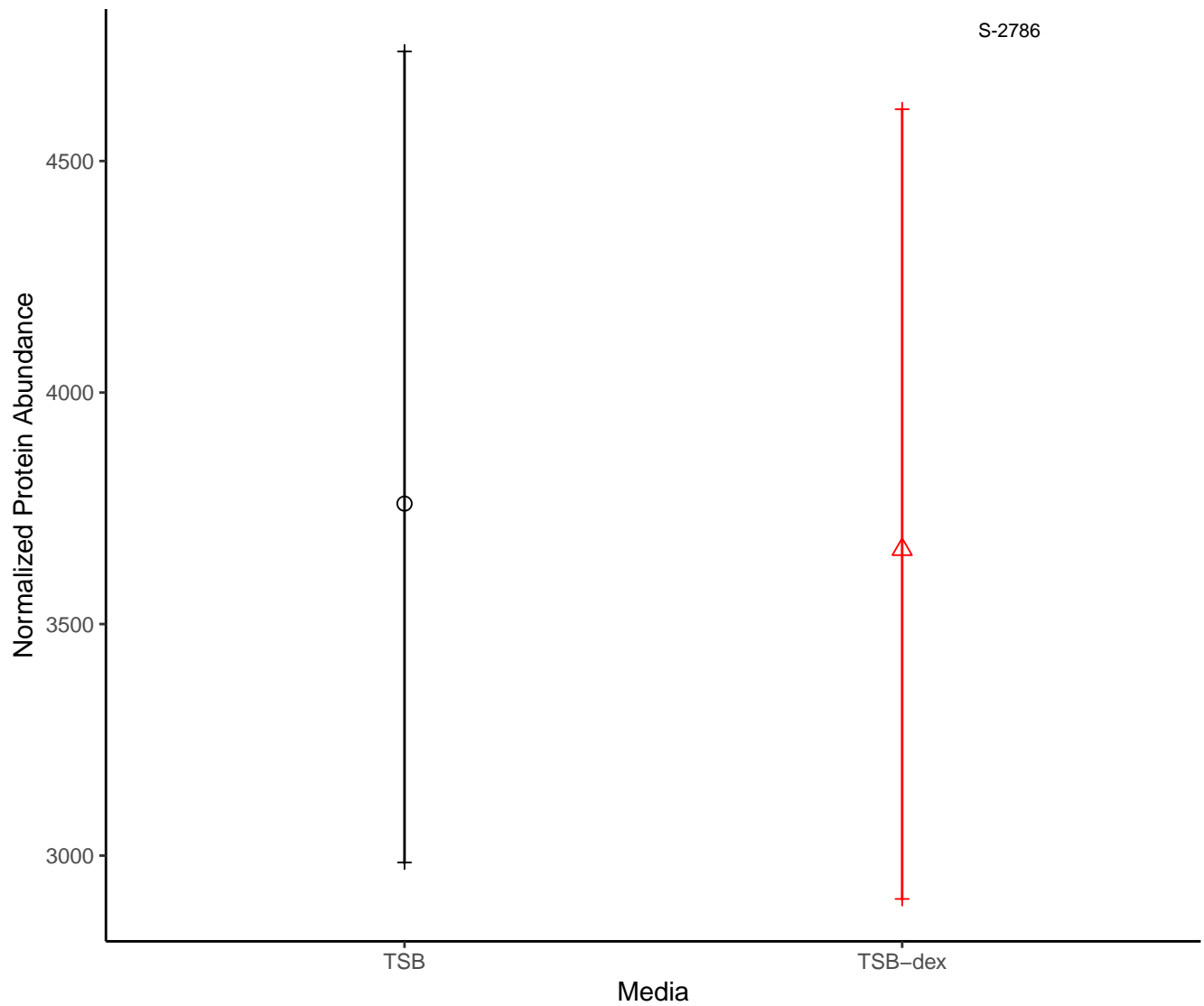


⊕ TSB-dex

△ TSB

# PUR3\_STAAM

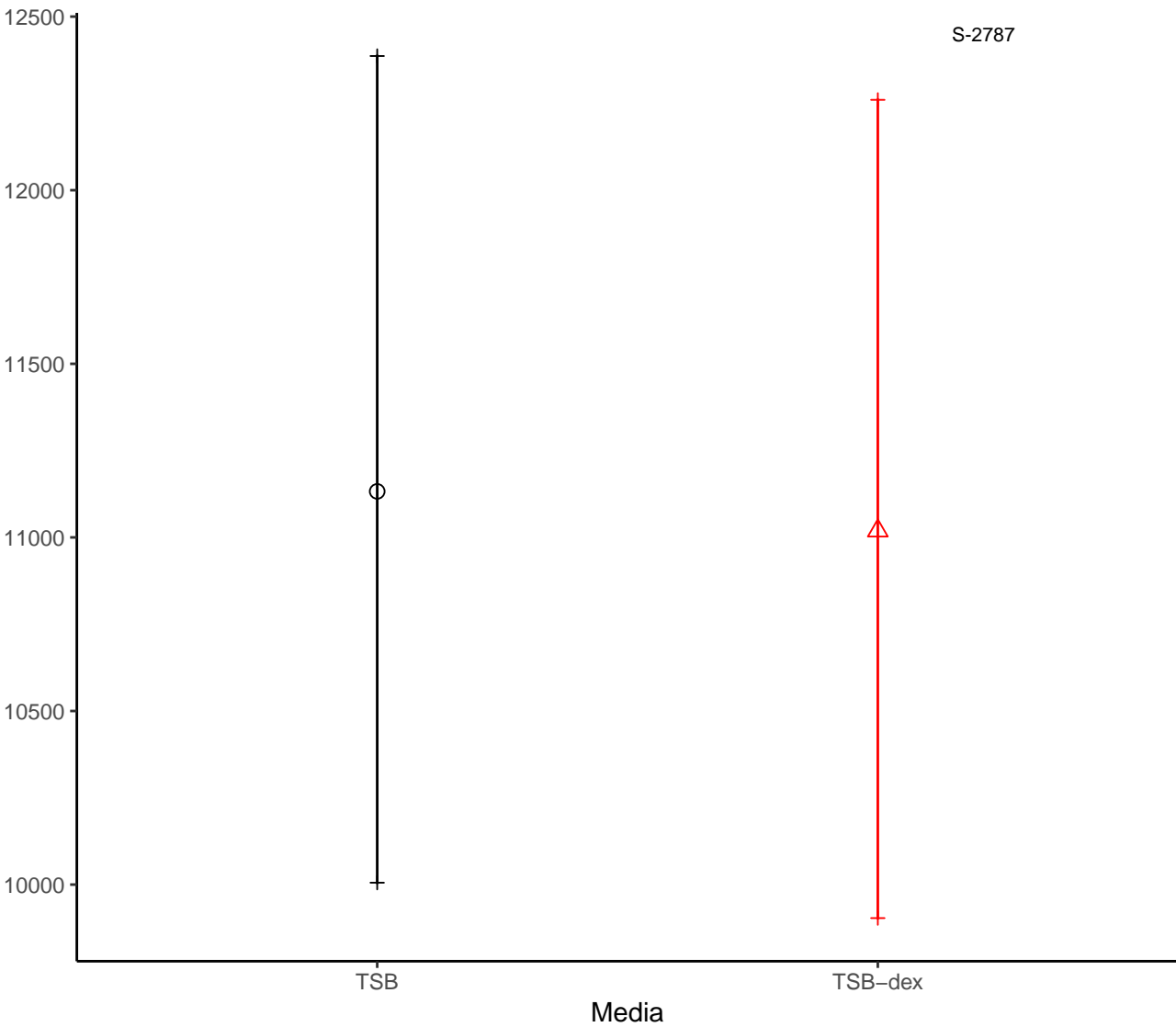
S-2786



⊕ TSB-dex

△ TSB

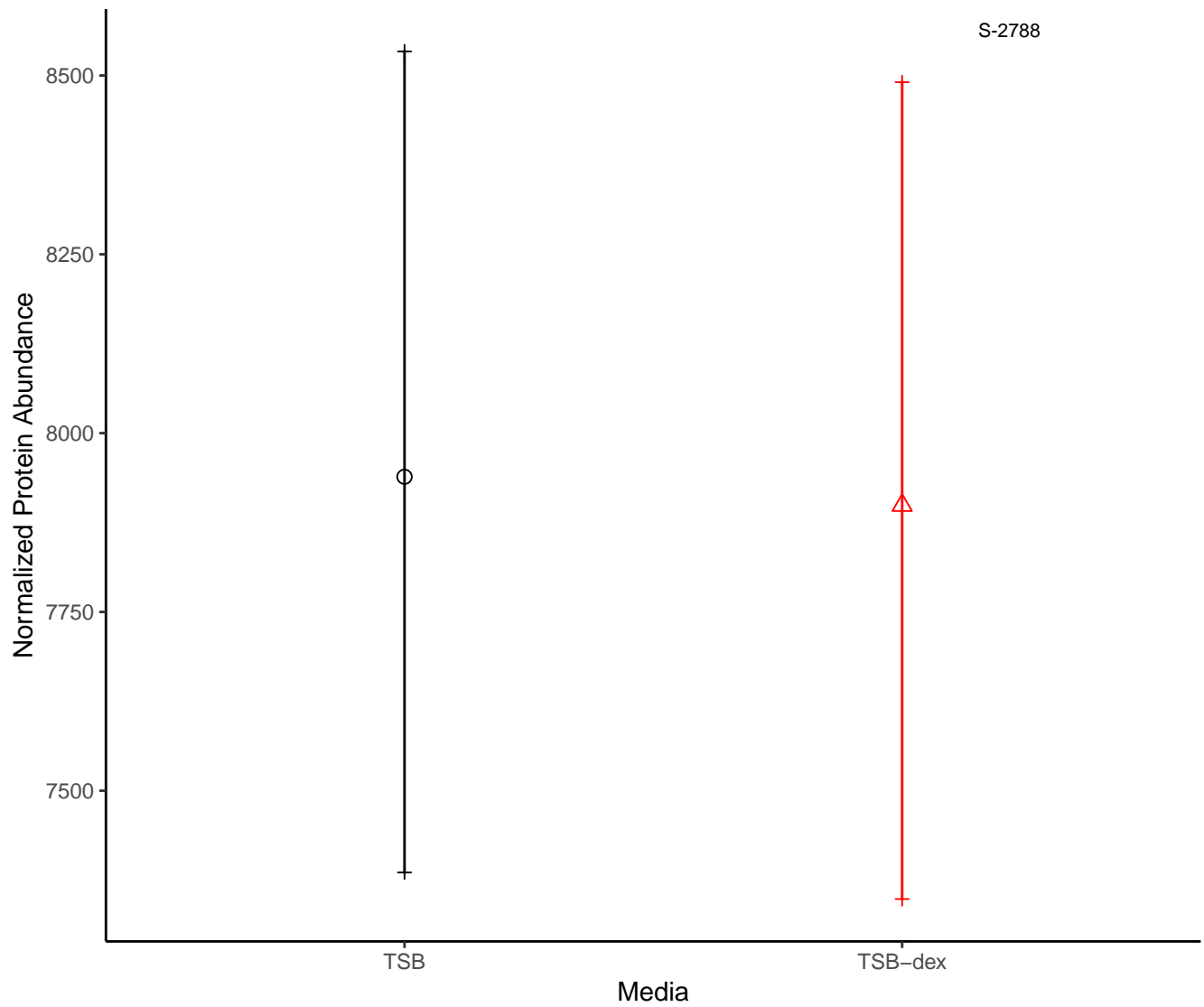
# PUR5\_STAAM



⊕ TSB-dex

△ TSB

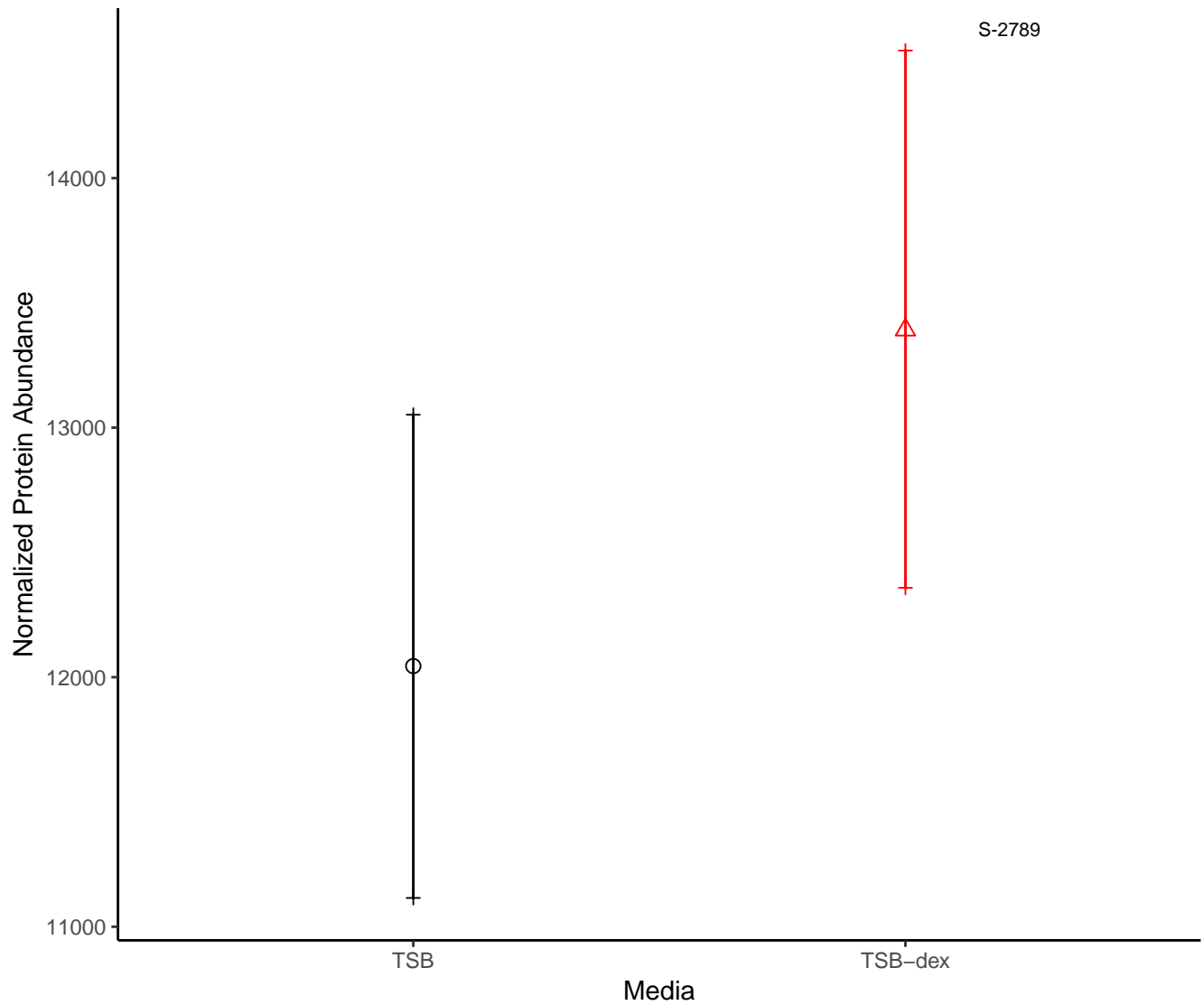
# PUR7\_STAAM



⊕ TSB-dex

△ TSB

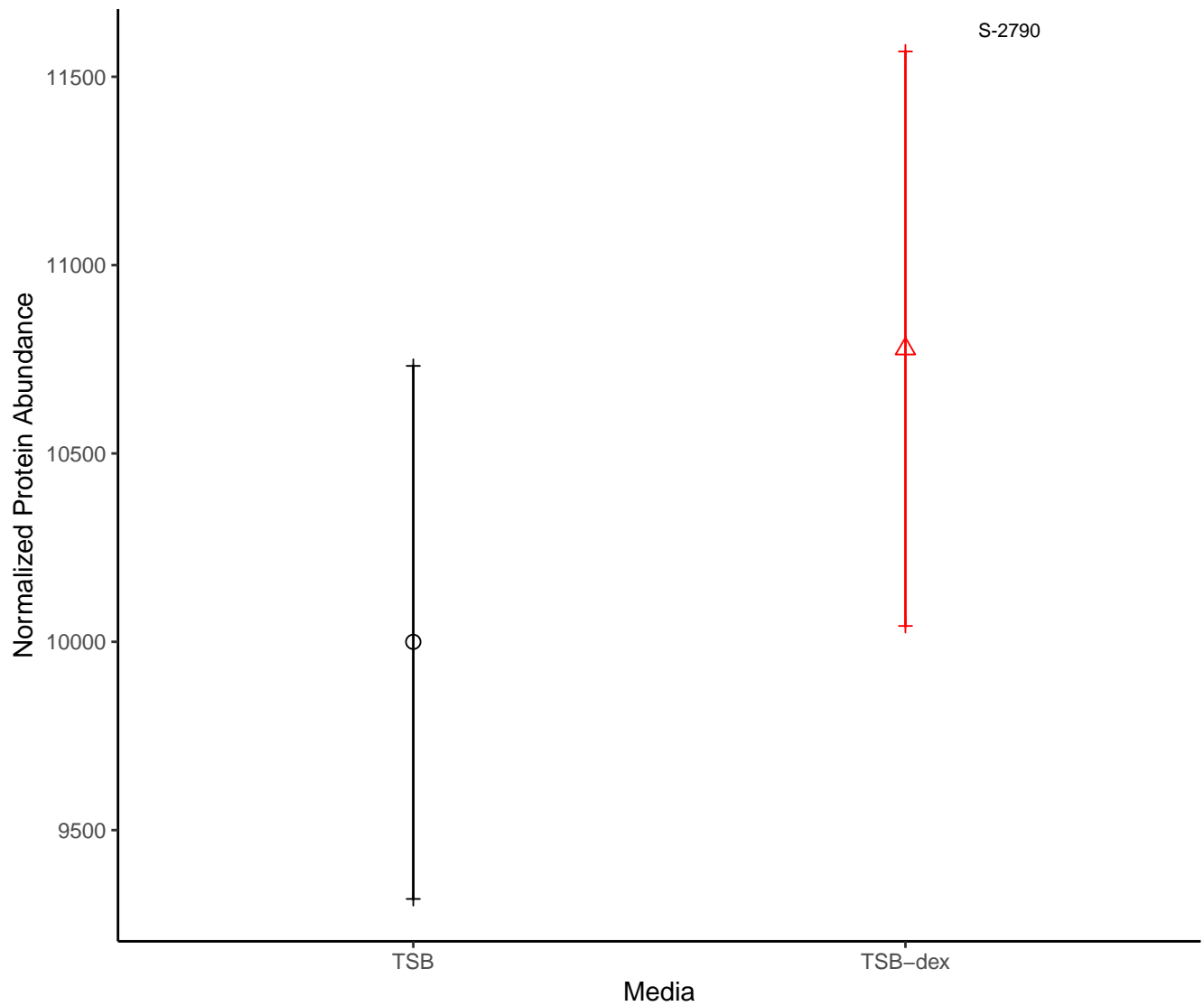
# PUR8\_STAAM



⊕ TSB-dex

△ TSB

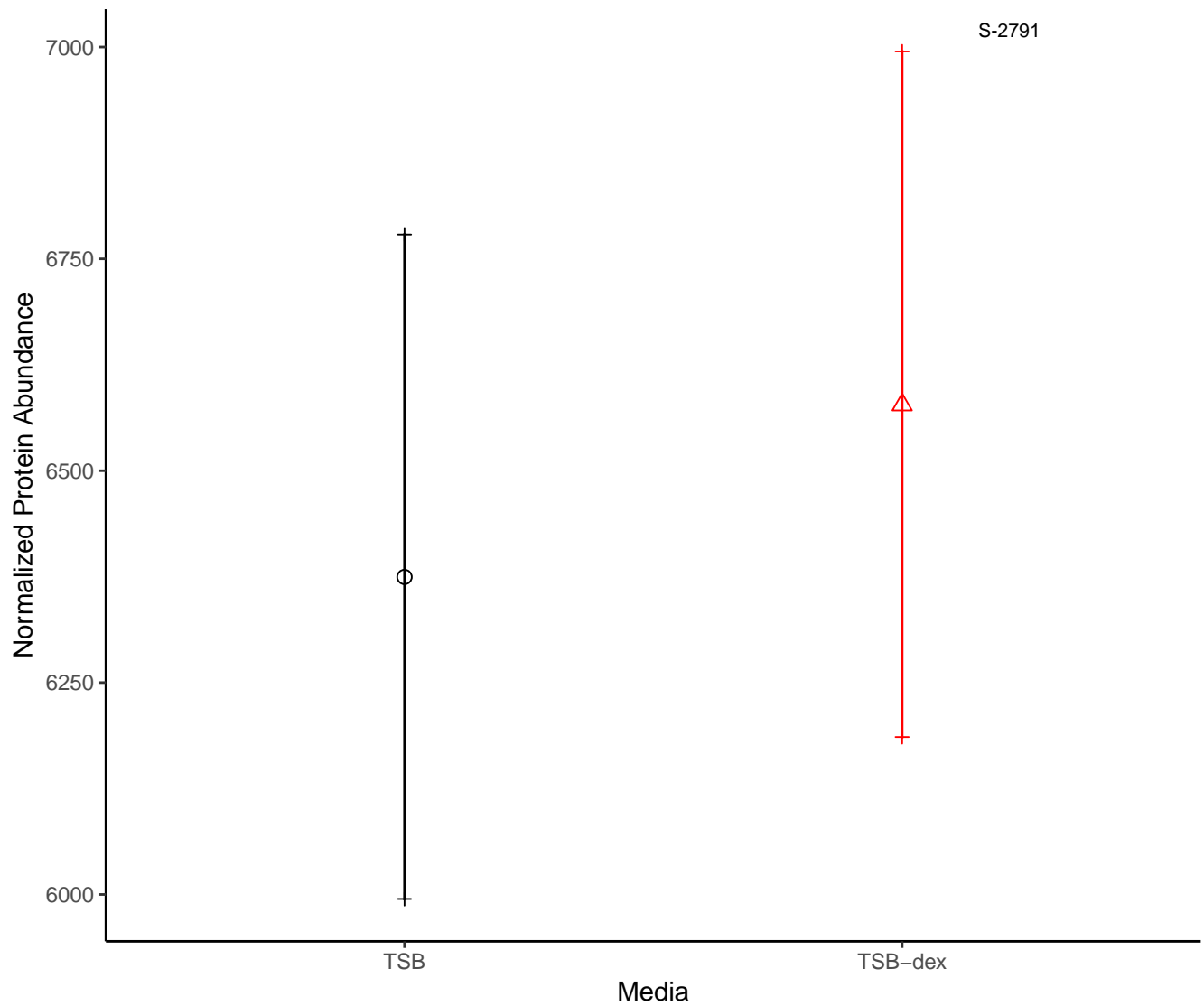
# PUR9\_STAAM



⊖ TSB-dex

△ TSB

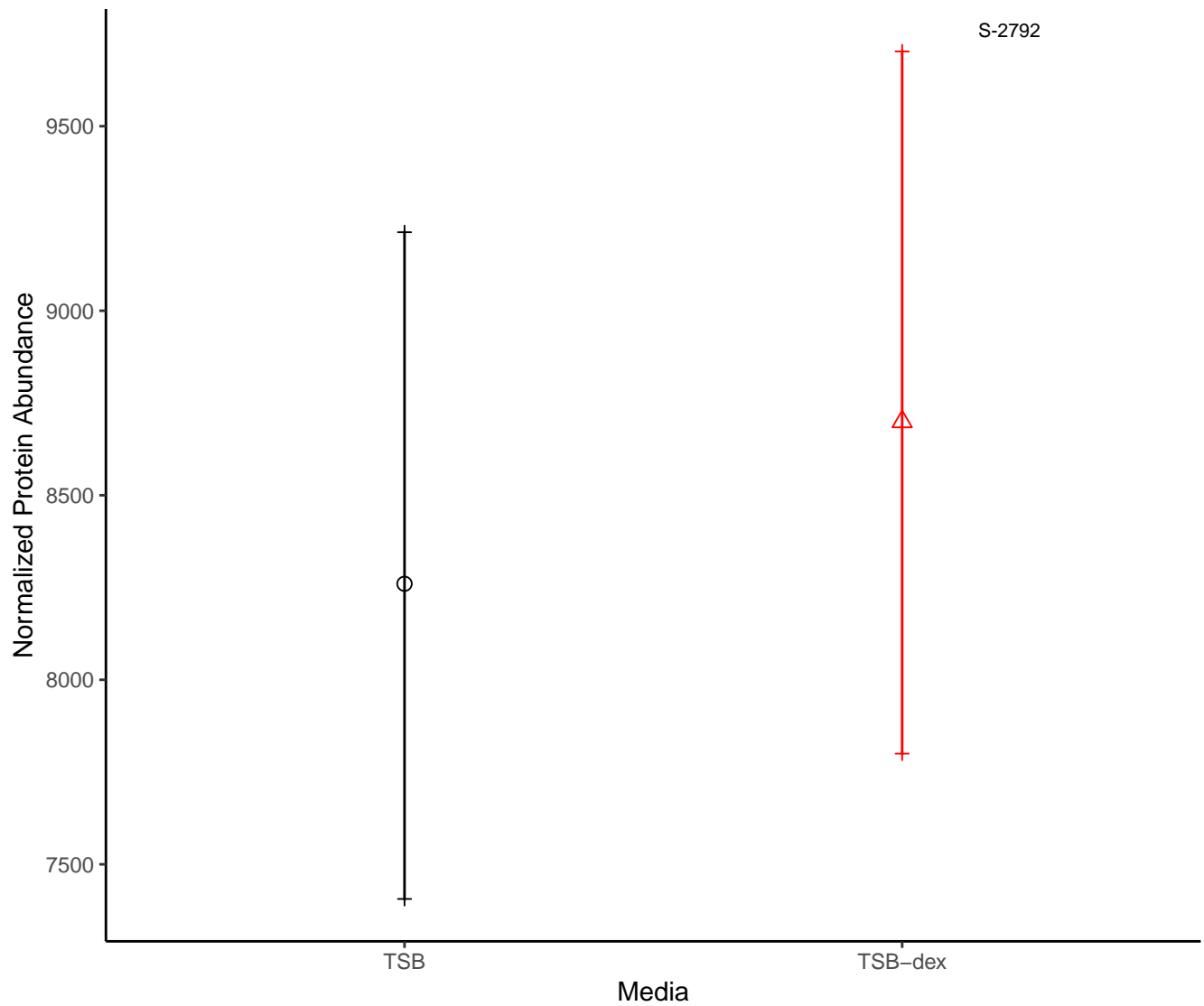
# PURA\_STAAM



⊕ TSB-dex

△ TSB

# PURK\_STAAM

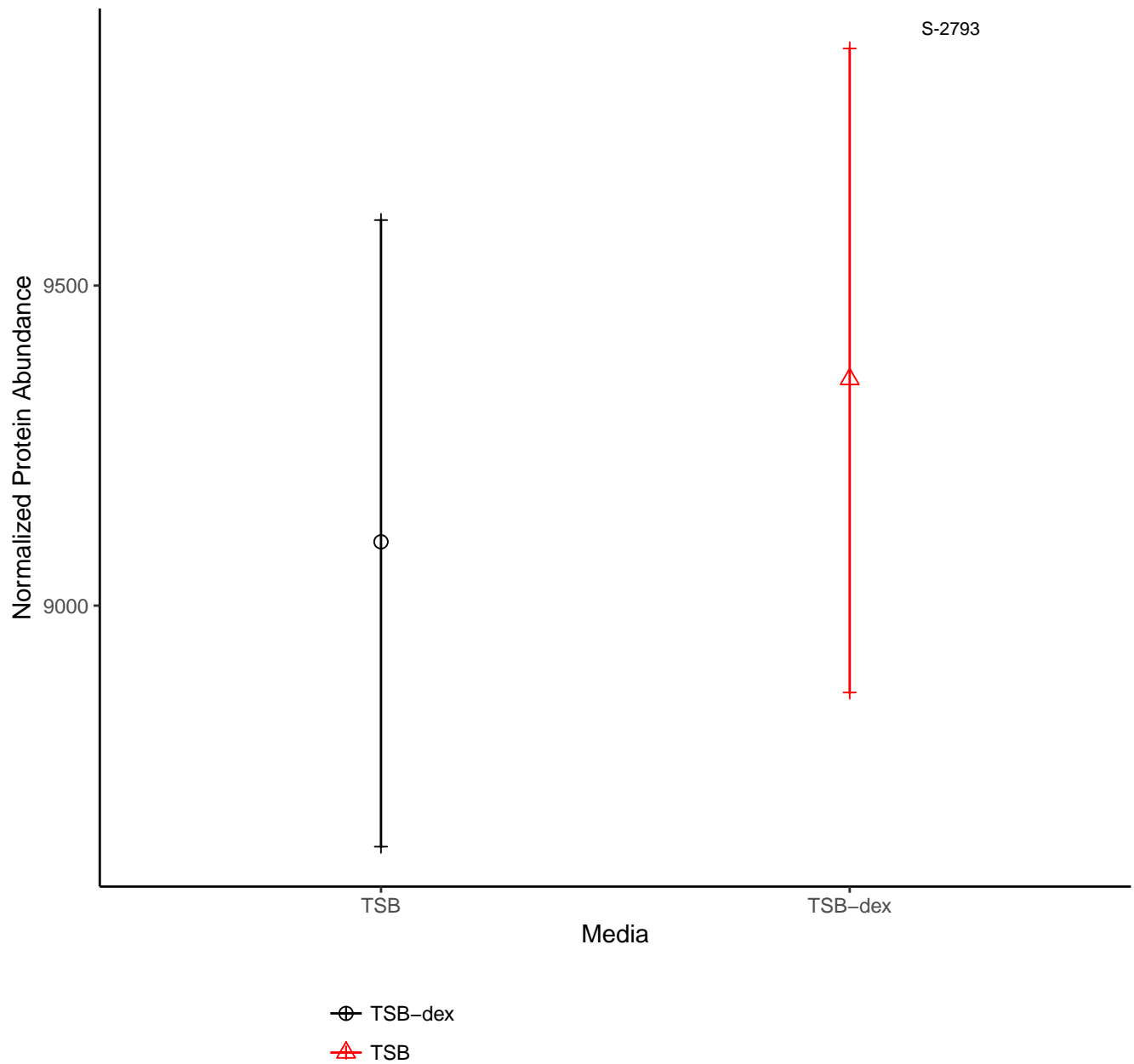


⊕ TSB-dex

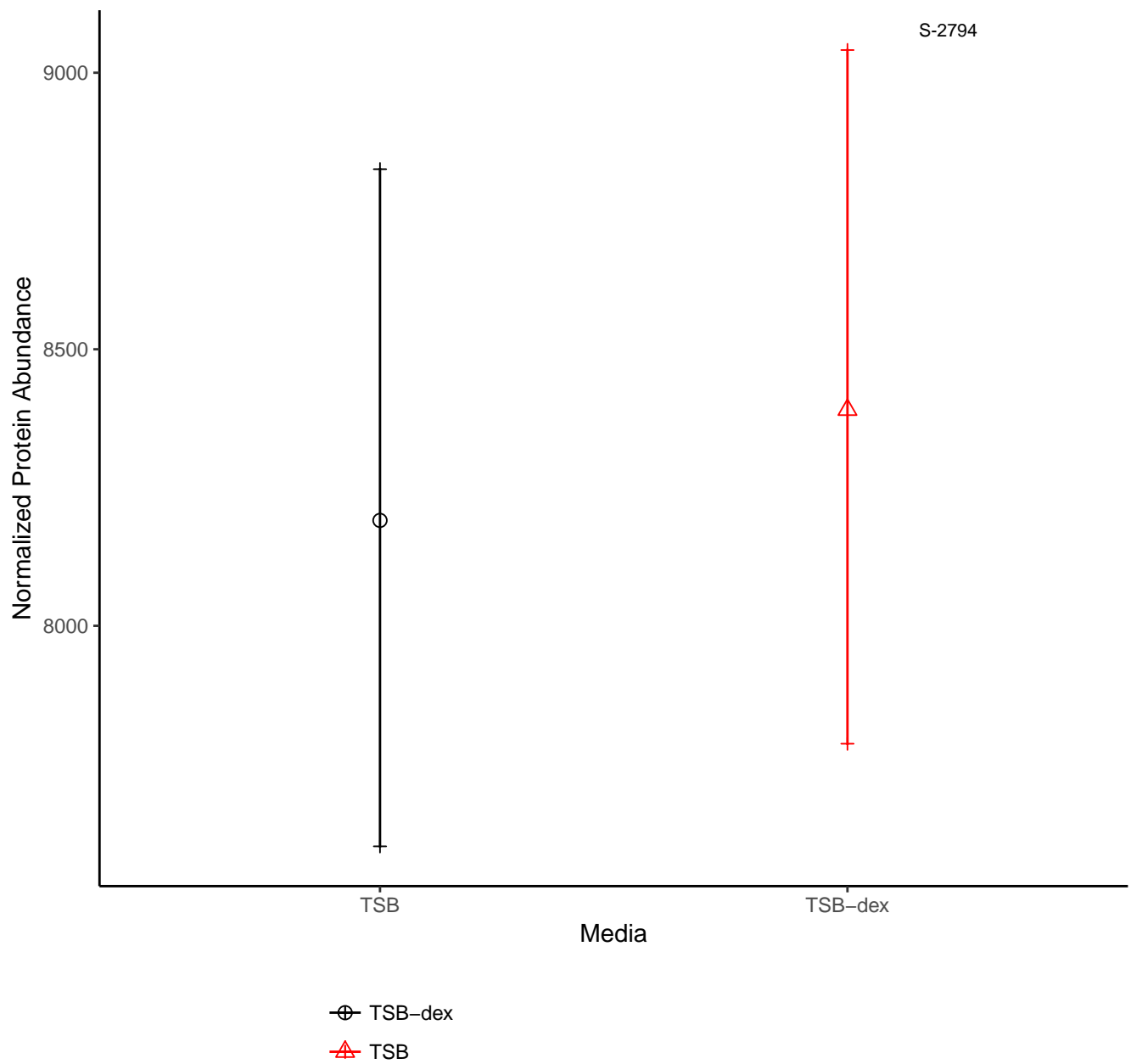
△ TSB



# PURL\_STAAM

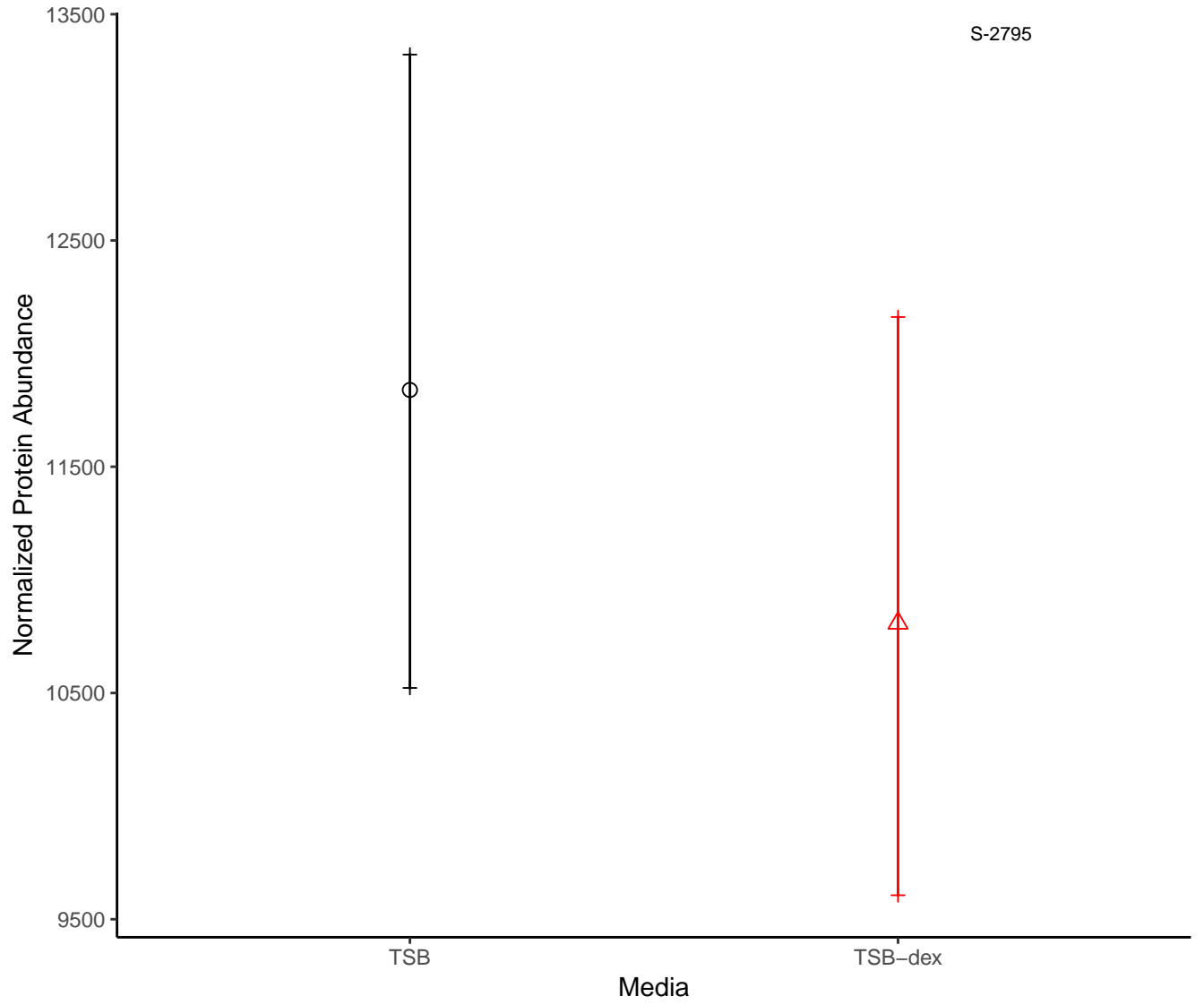


# PURQ\_STAAM



# PYRB\_STAAM

S-2795

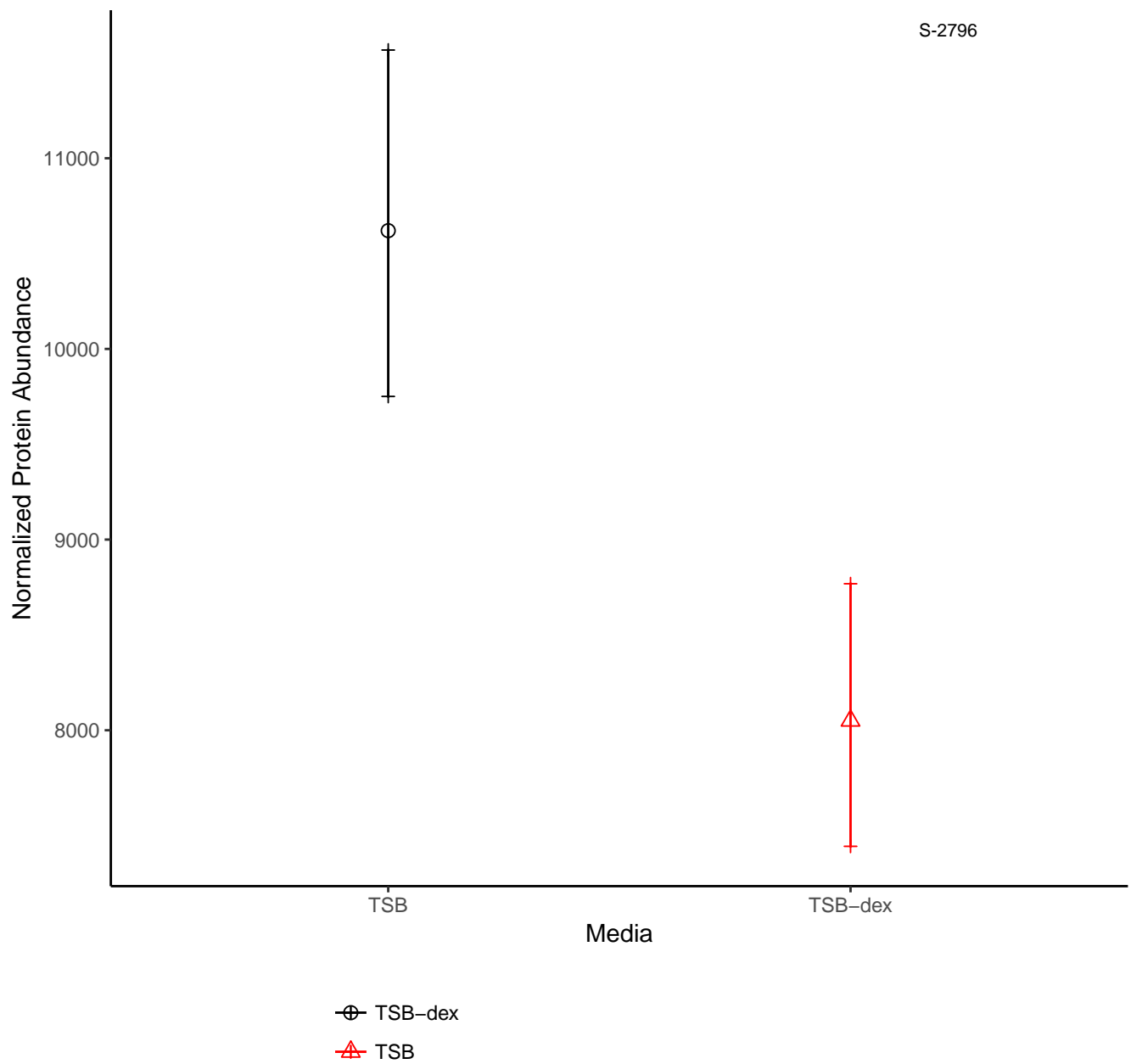


⊖ TSB-dex

△ TSB

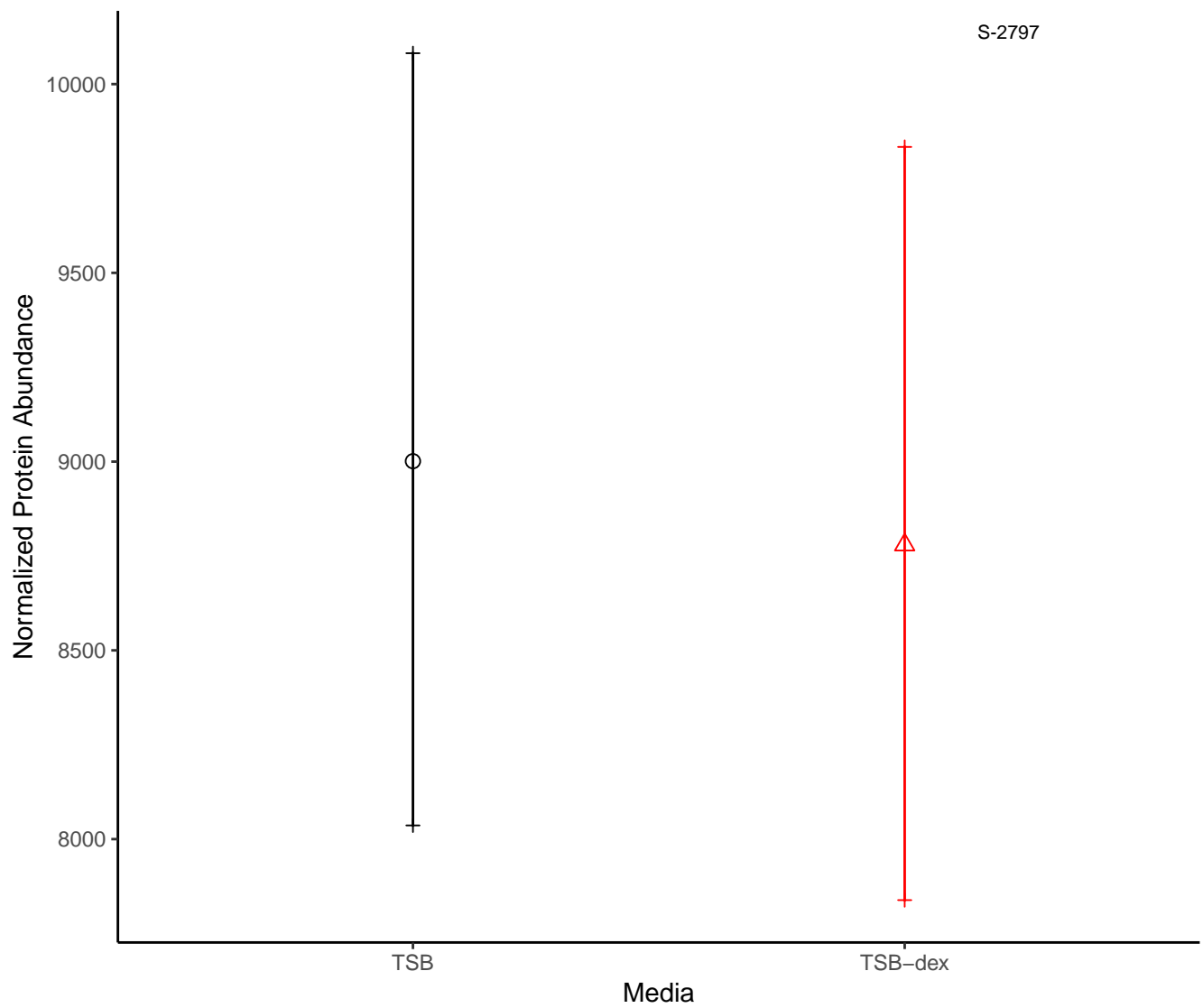
# PYRC\_STAAM

S-2796



# PYRE\_STAAM

S-2797

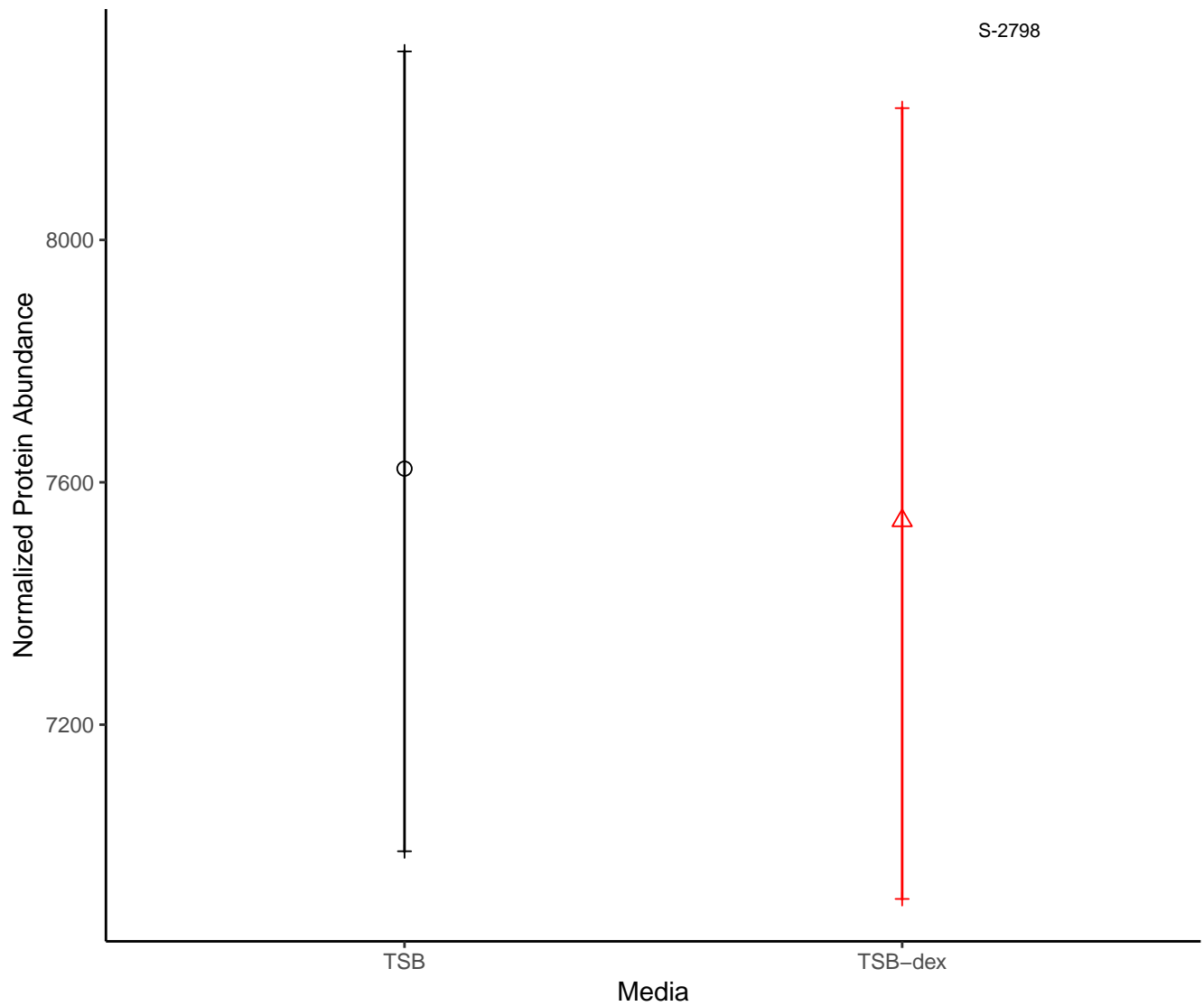


⊕ TSB-dex

△ TSB

# PYRF\_STAAM

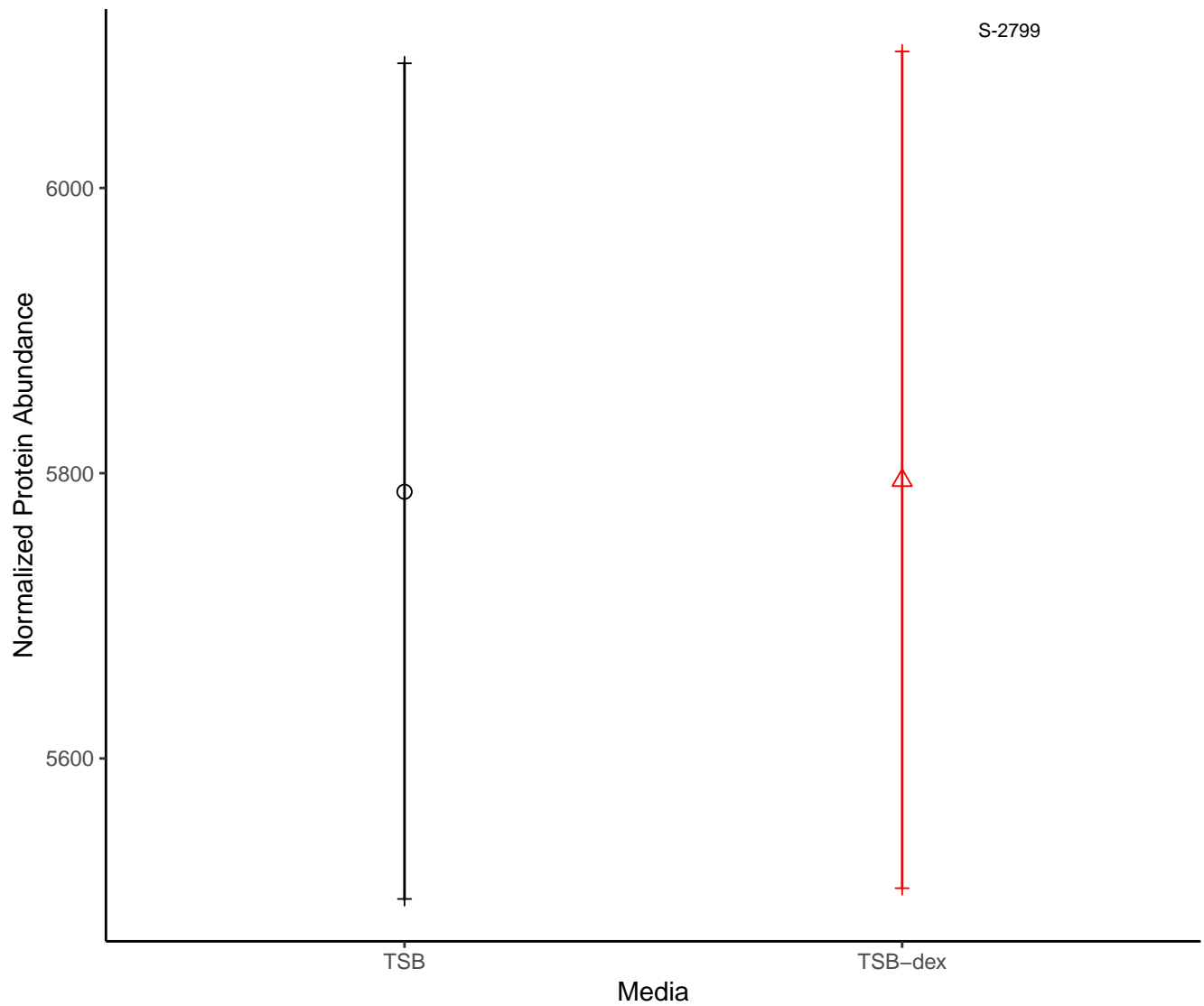
S-2798



⊕ TSB-dex

△ TSB

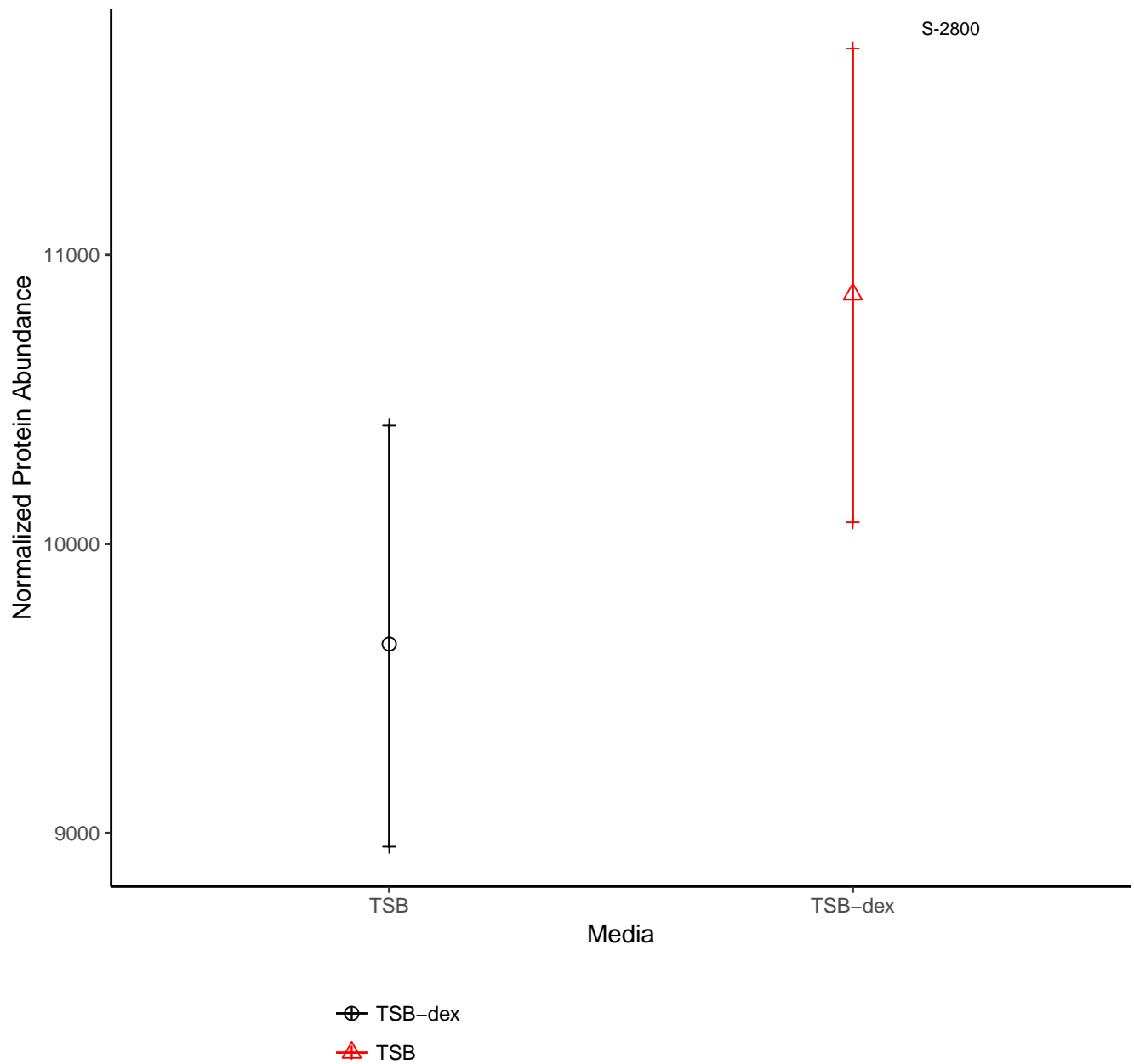
# PYRG\_STAAM



⊕ TSB-dex

△ TSB

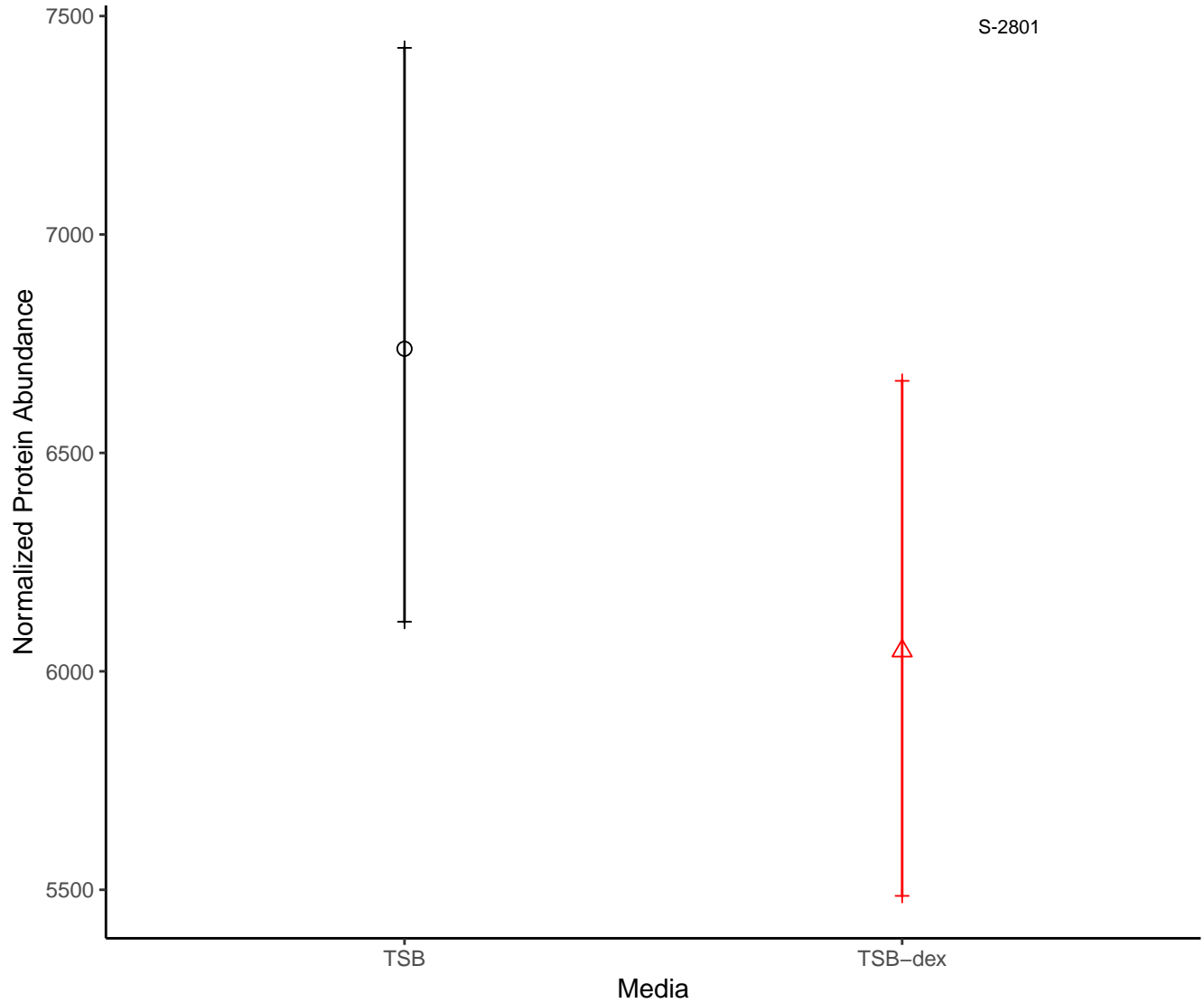
# PYRH\_STAAM





# PYRR\_STAAM

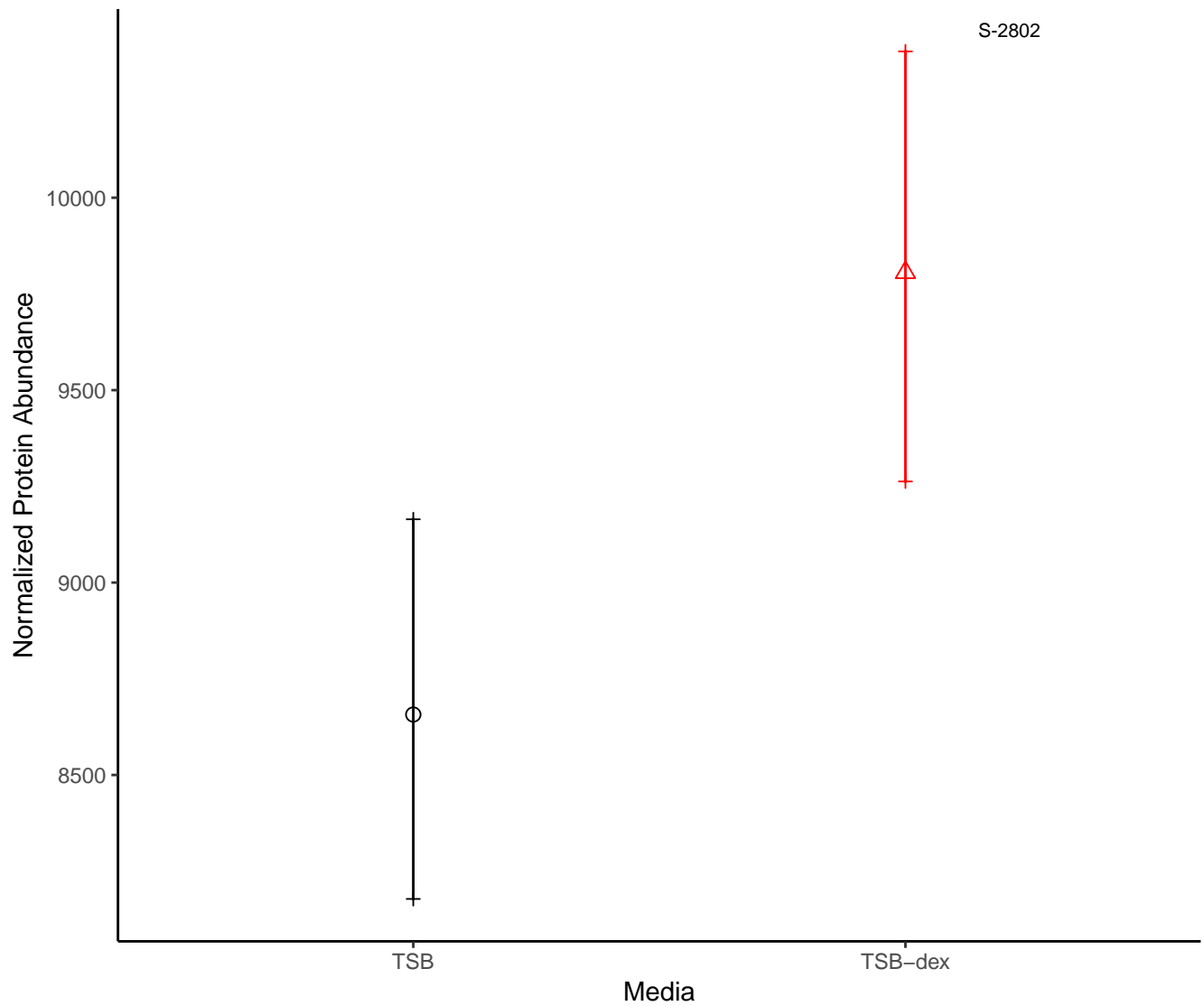
S-2801



⊕ TSB-dex

△ TSB

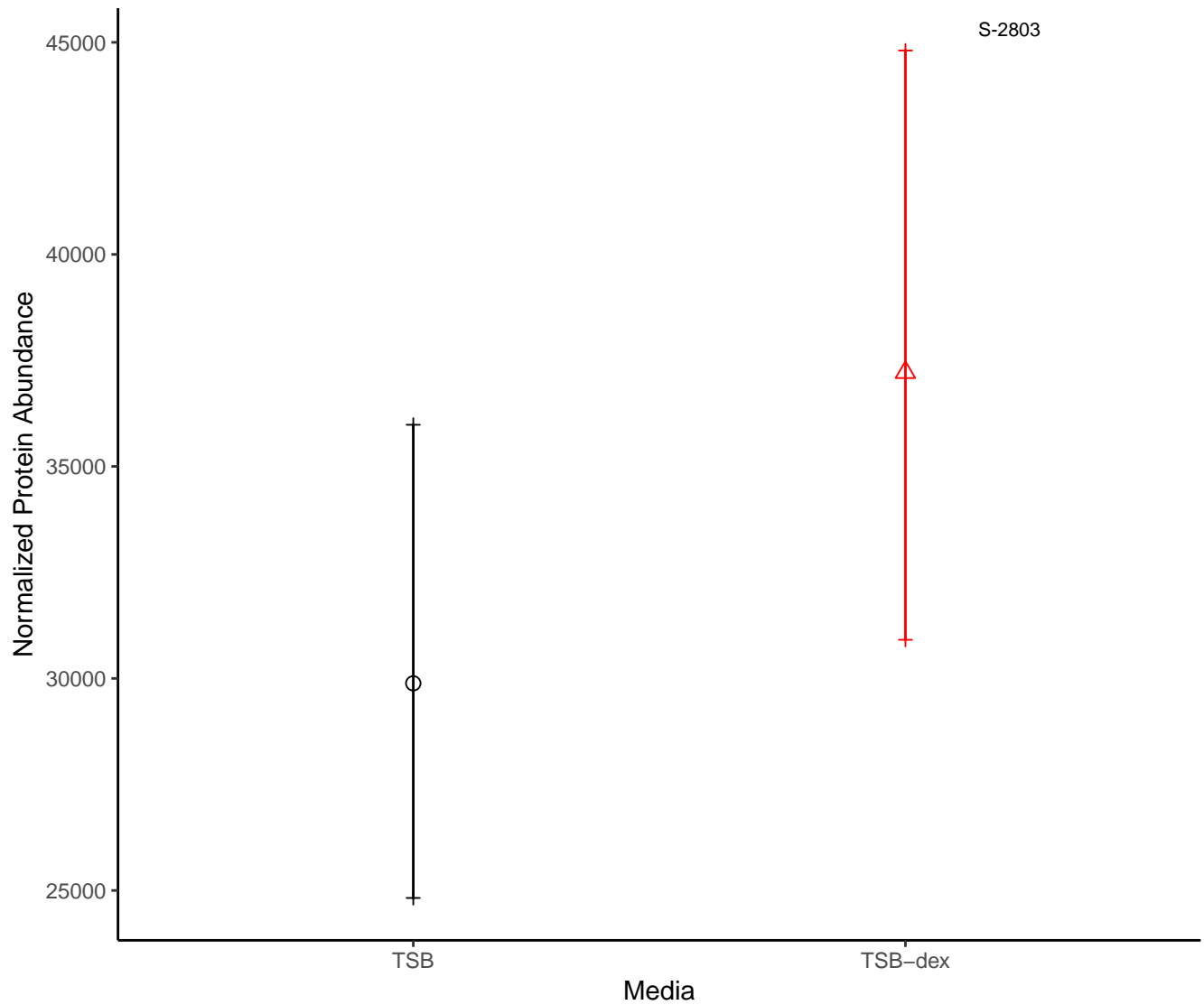
# QOX2\_STAAM



⊕ TSB-dex

△ TSB

# QUEA\_STAAM

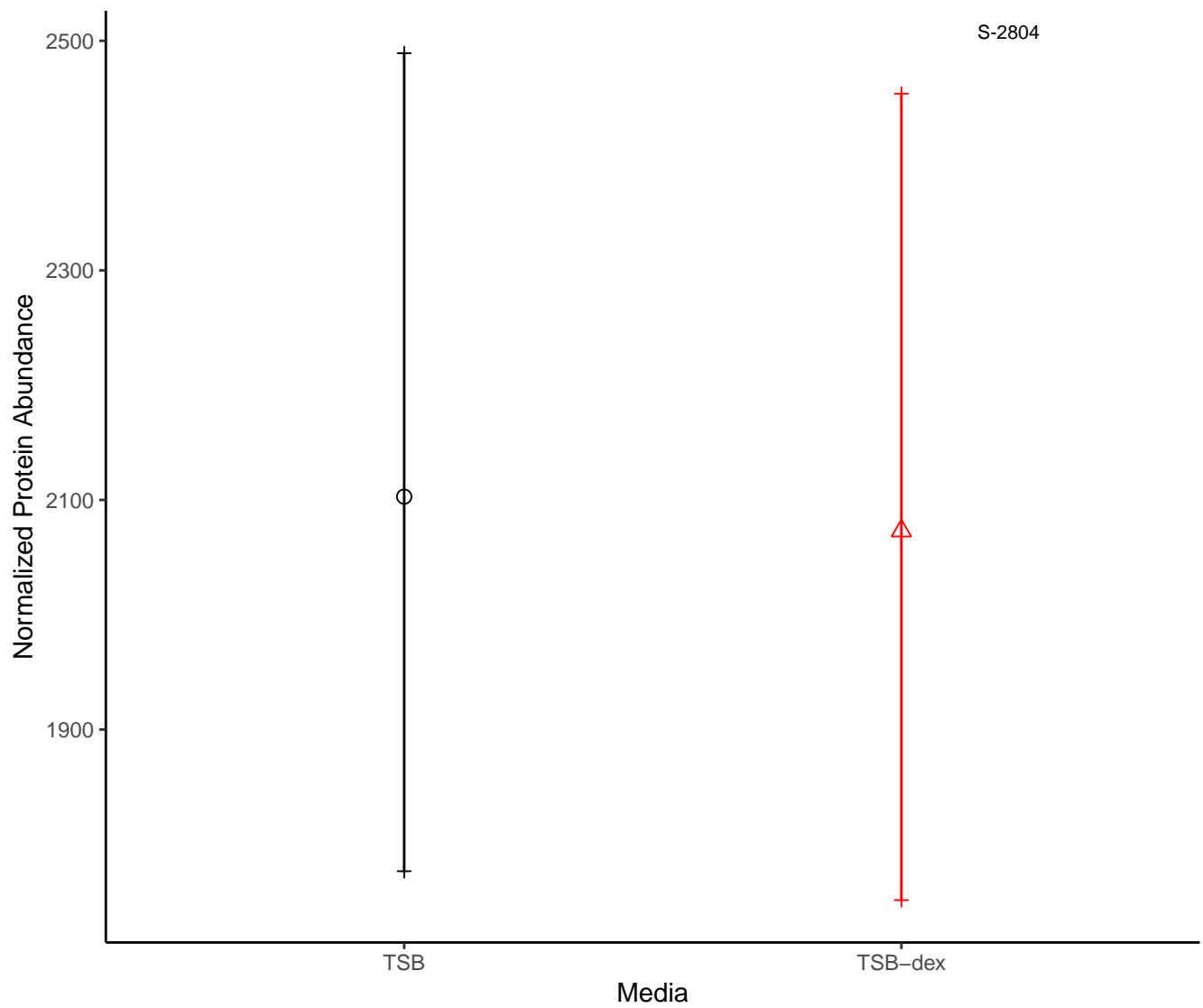


⊕ TSB-dex

△ TSB

# QUEC\_STAAM

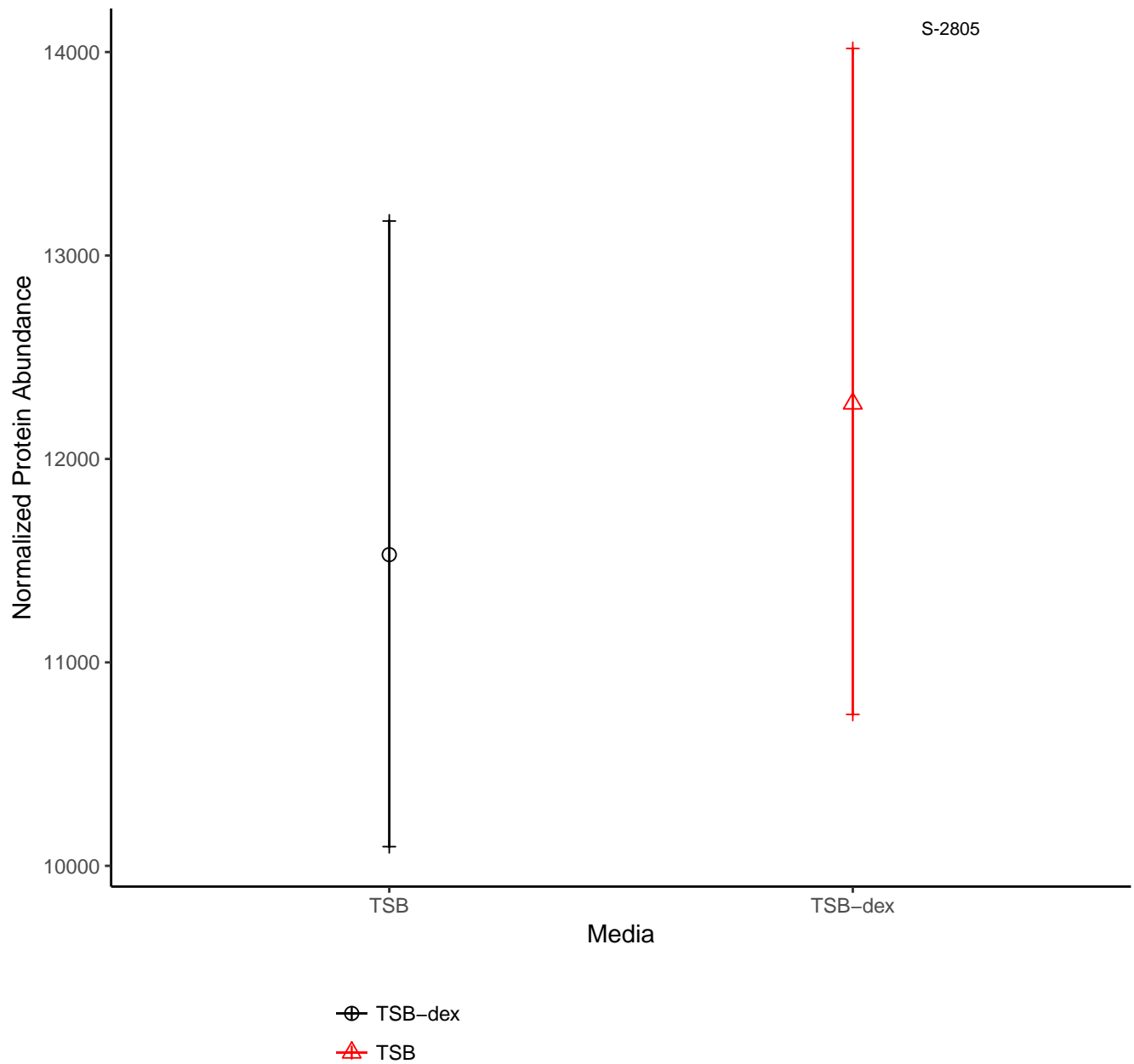
S-2804



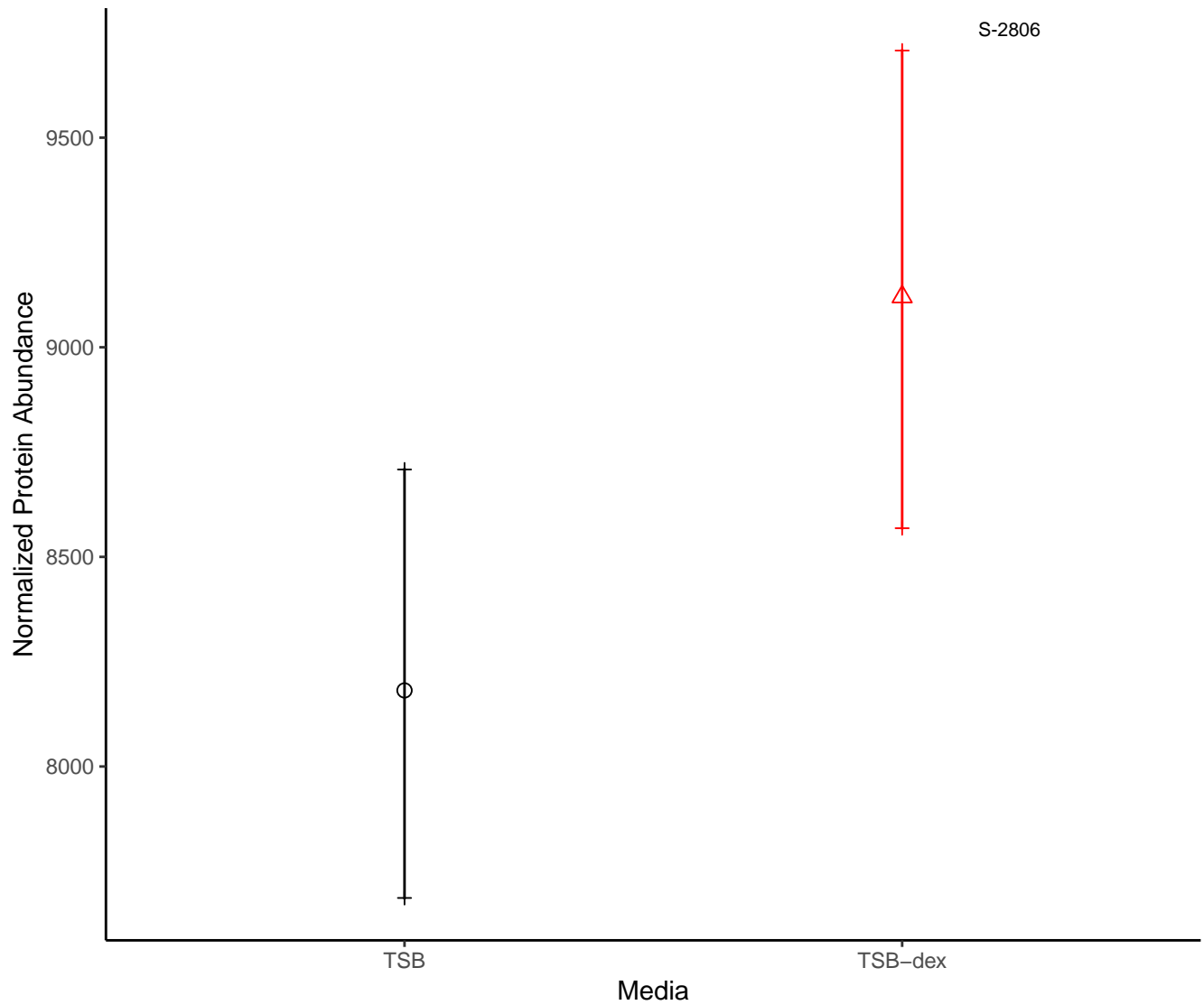
⊕ TSB-dex

△ TSB

# RBFA\_STAAM



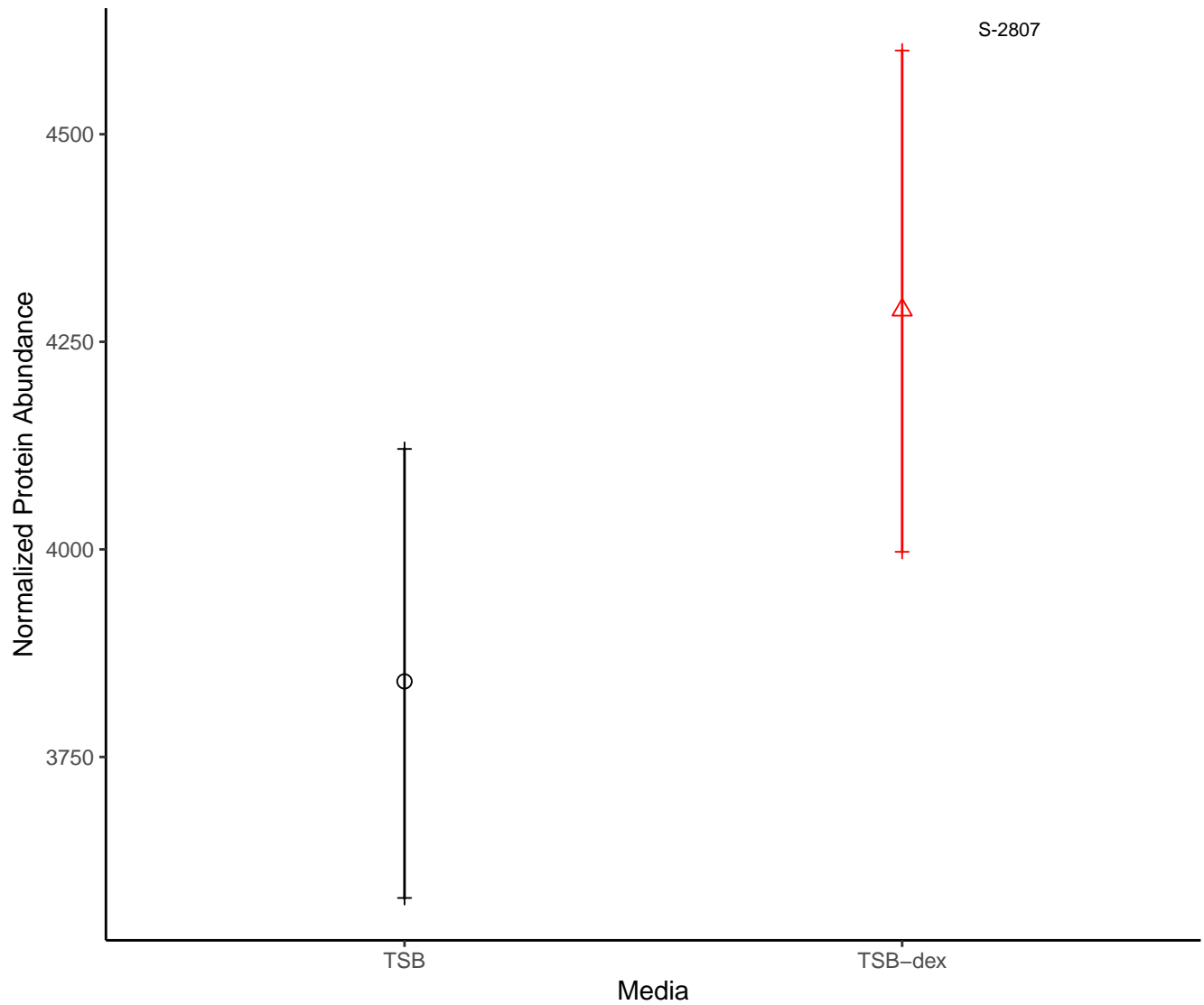
# RECA\_STAAM



⊕ TSB-dex

△ TSB

# RELA\_STAAM

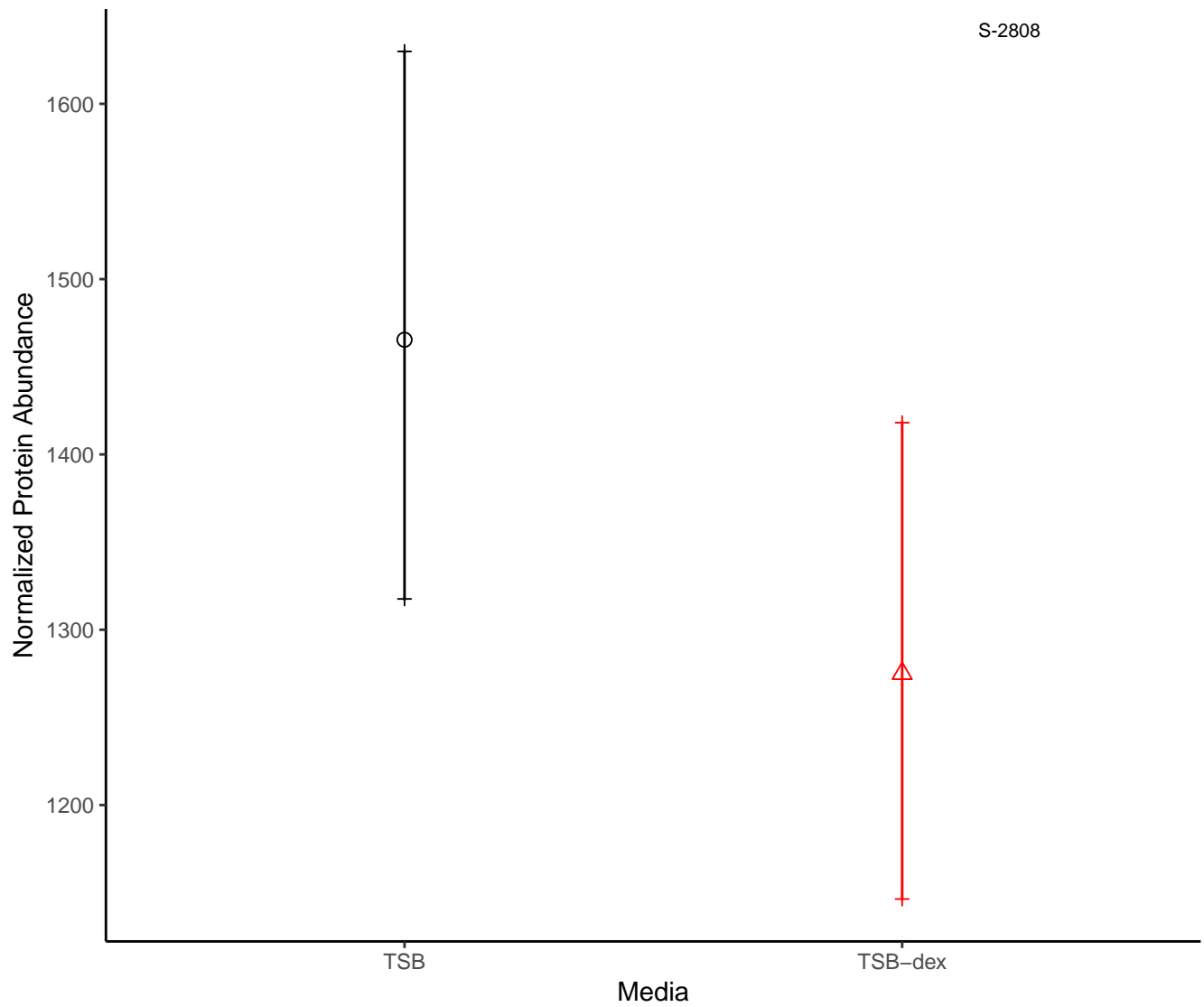


⊕ TSB-dex

△ TSB

# REX\_STAAM

S-2808

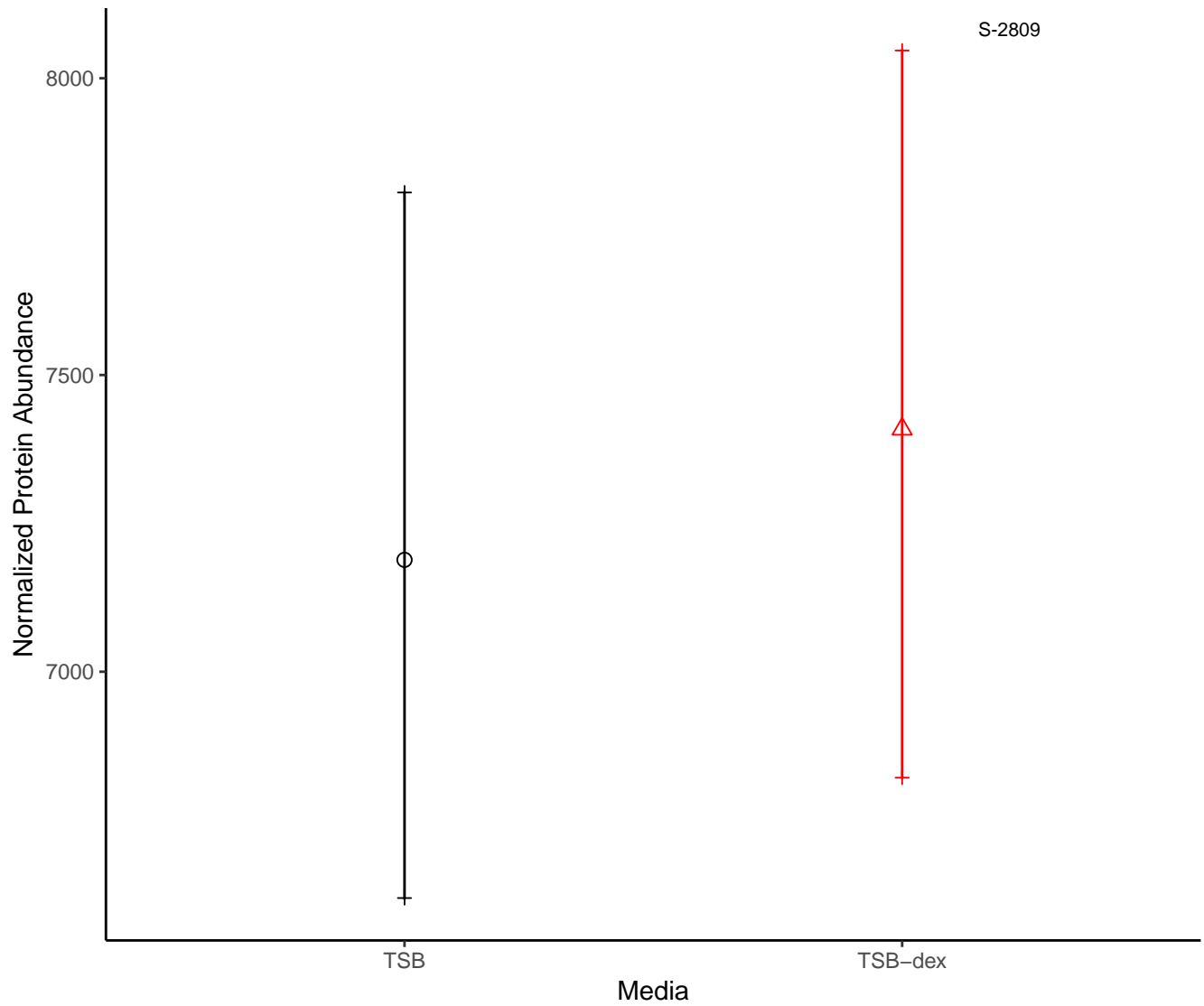


⊕ TSB-dex

△ TSB



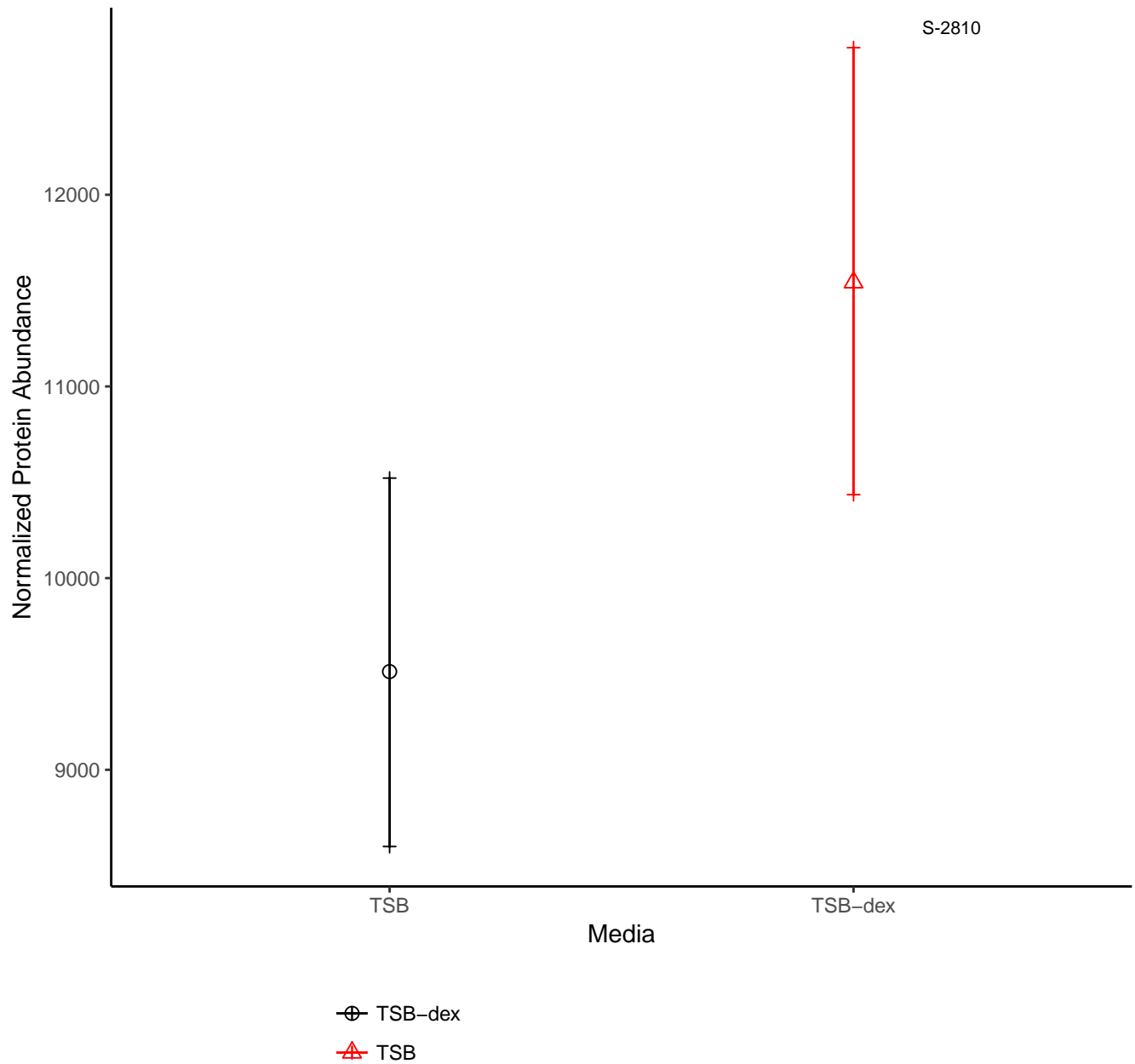
# RF1\_STAAM



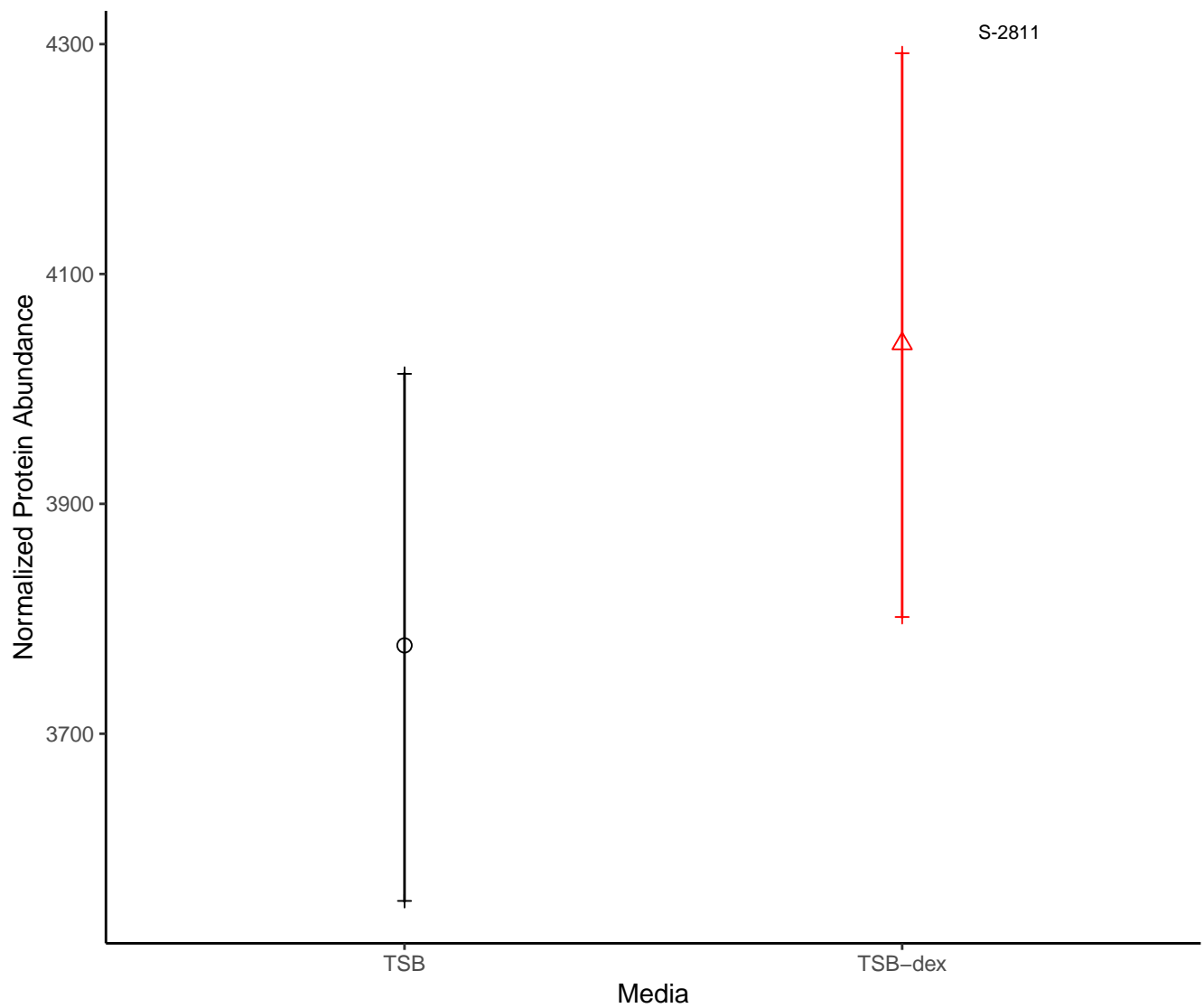
⊕ TSB-dex

△ TSB

# RIBBA\_STAAM



# RIMM\_STAAM

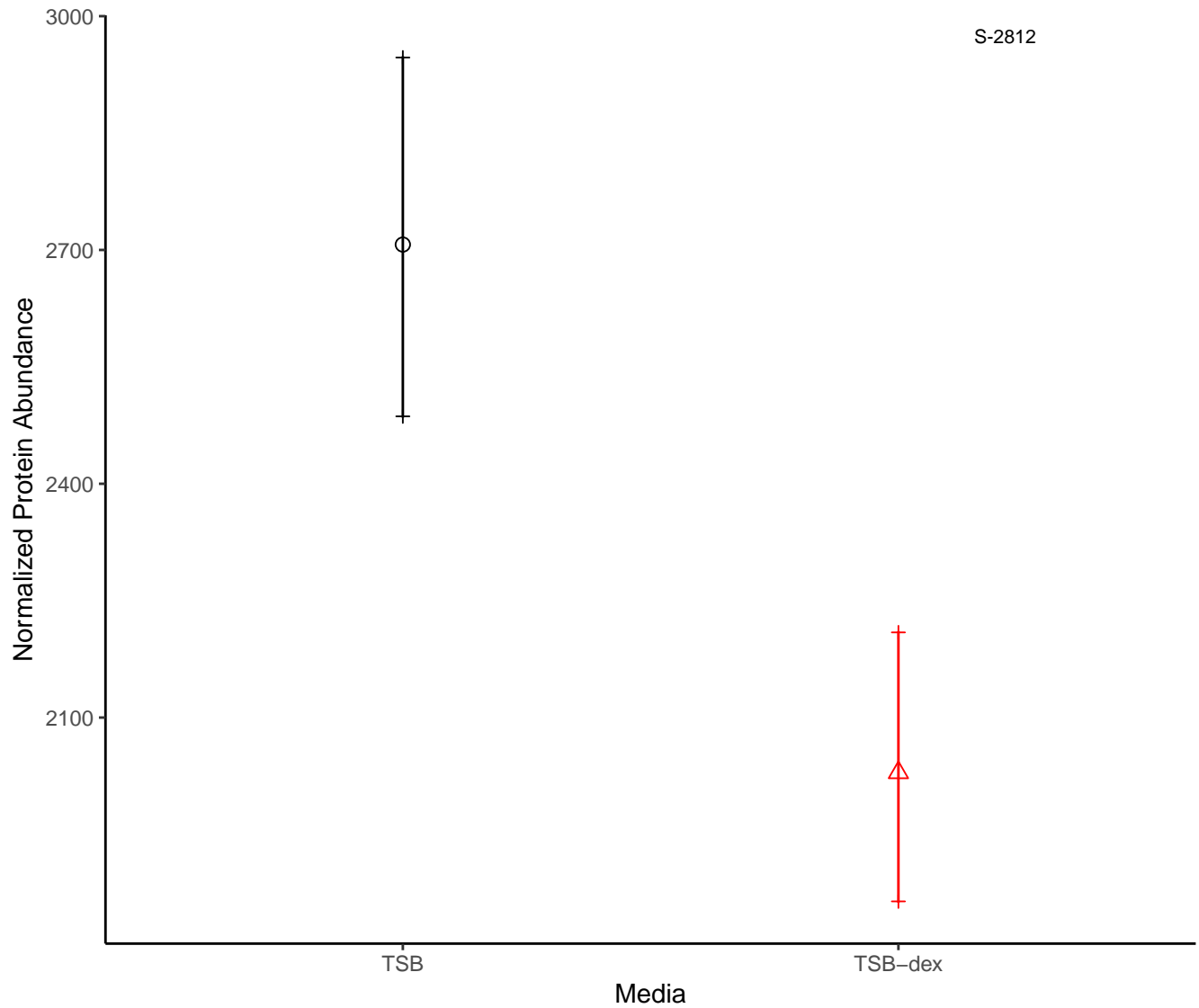


⊕ TSB-dex

△ TSB

# RISB\_STAAM

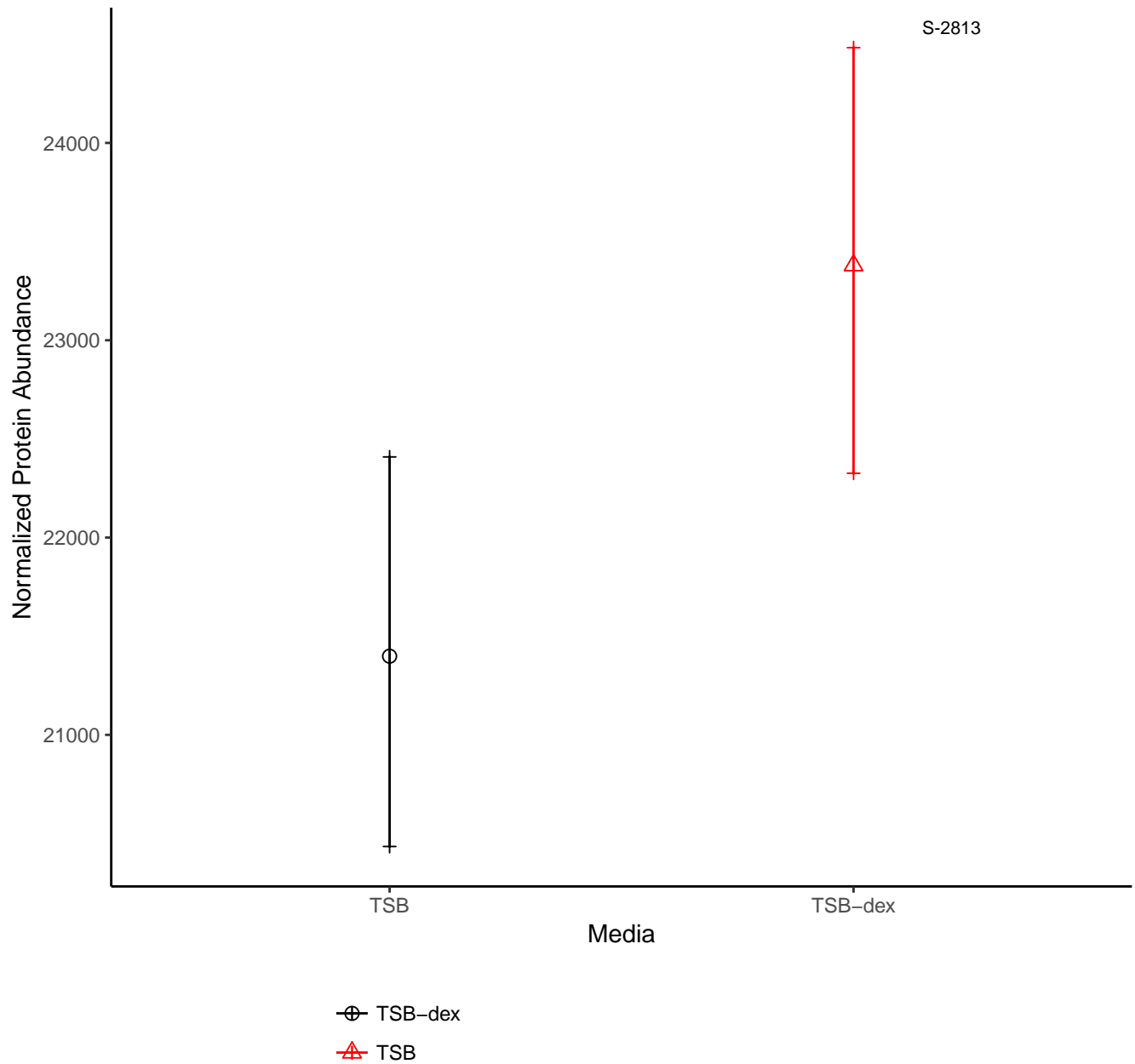
S-2812



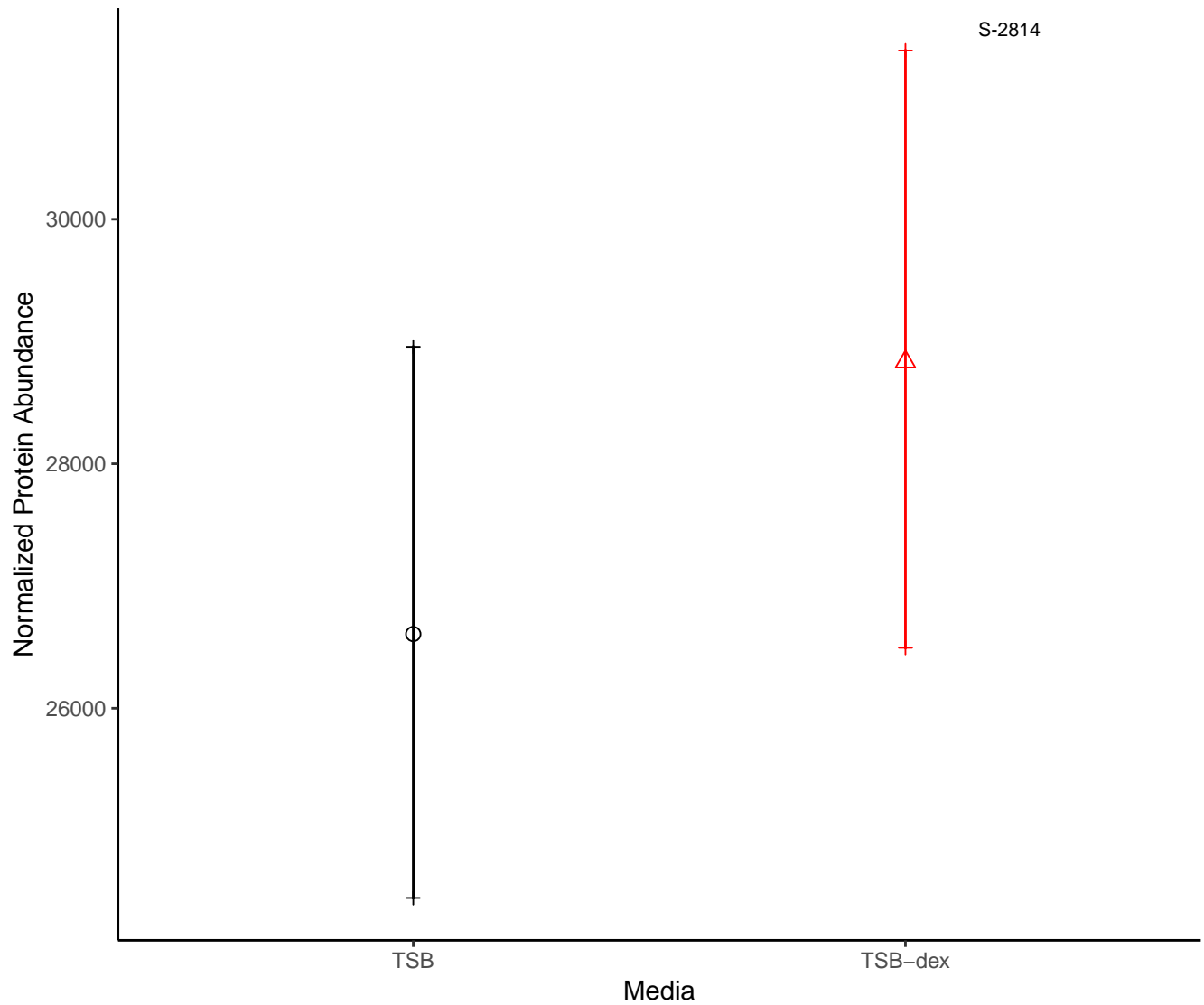
⊕ TSB-dex

△ TSB

# RL1\_STAAM



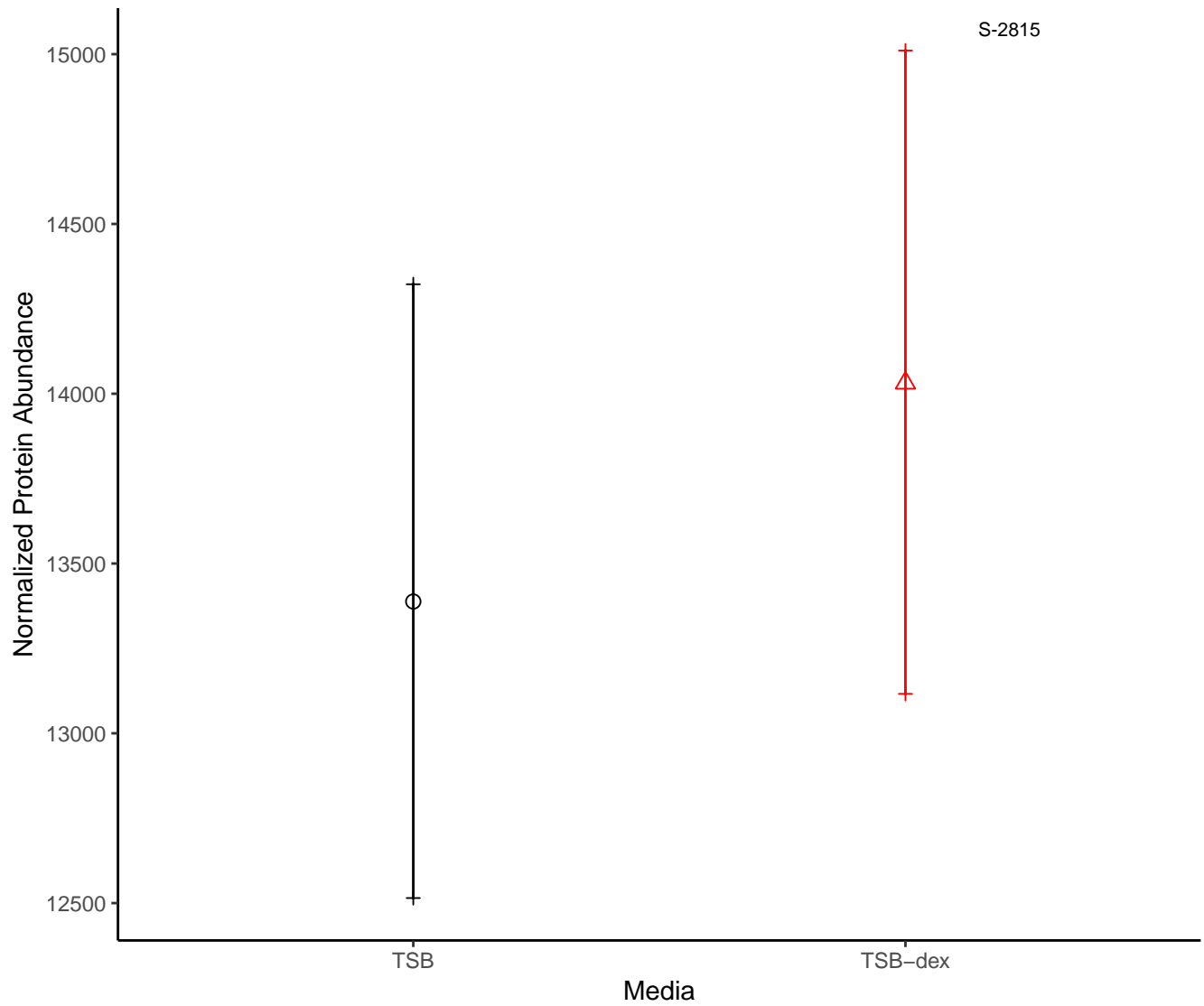
# RL10\_STAAM



⊖ TSB-dex

△ TSB

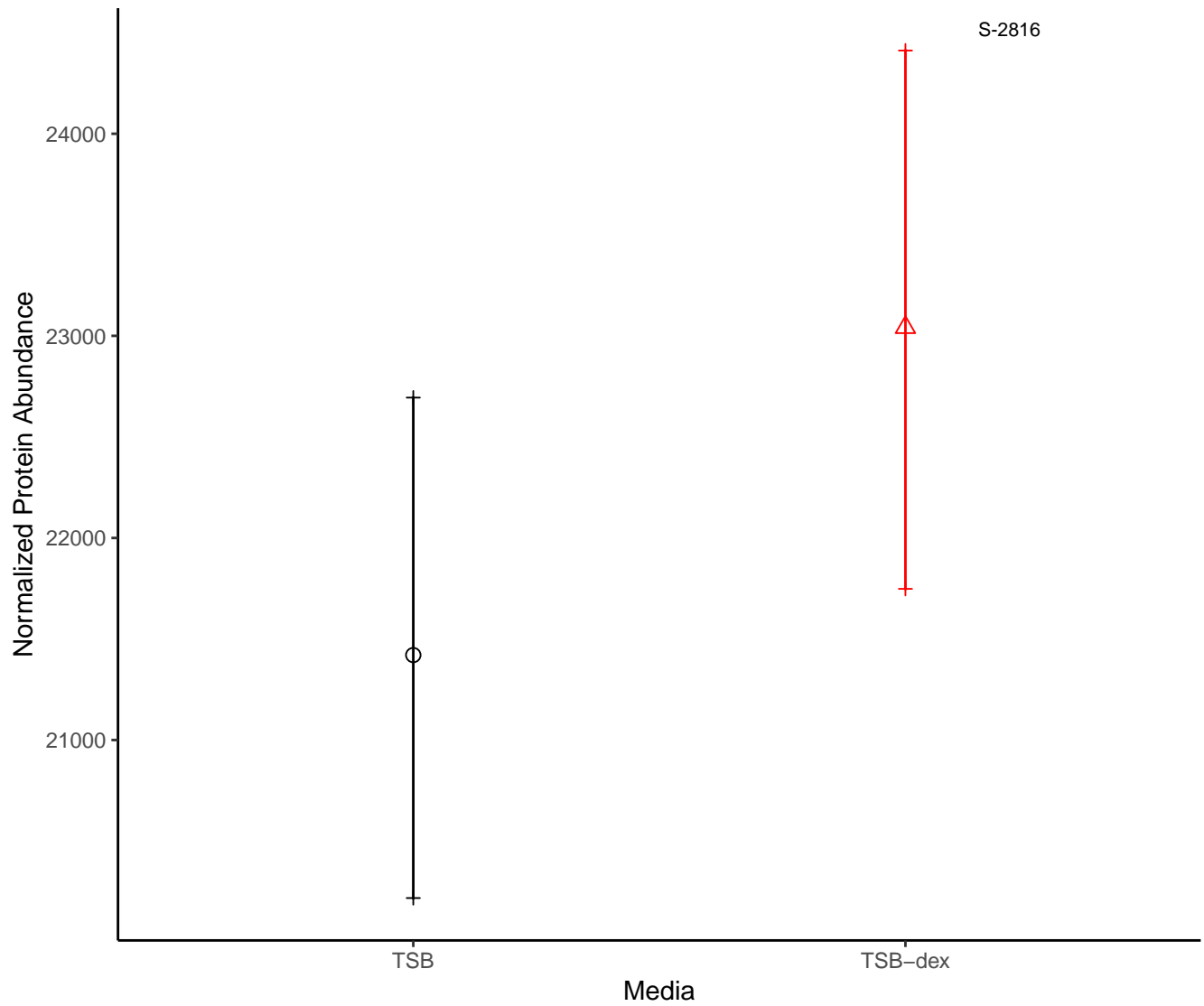
# RL11\_STAAM



⊕ TSB-dex

△ TSB

# RL13\_STAAM

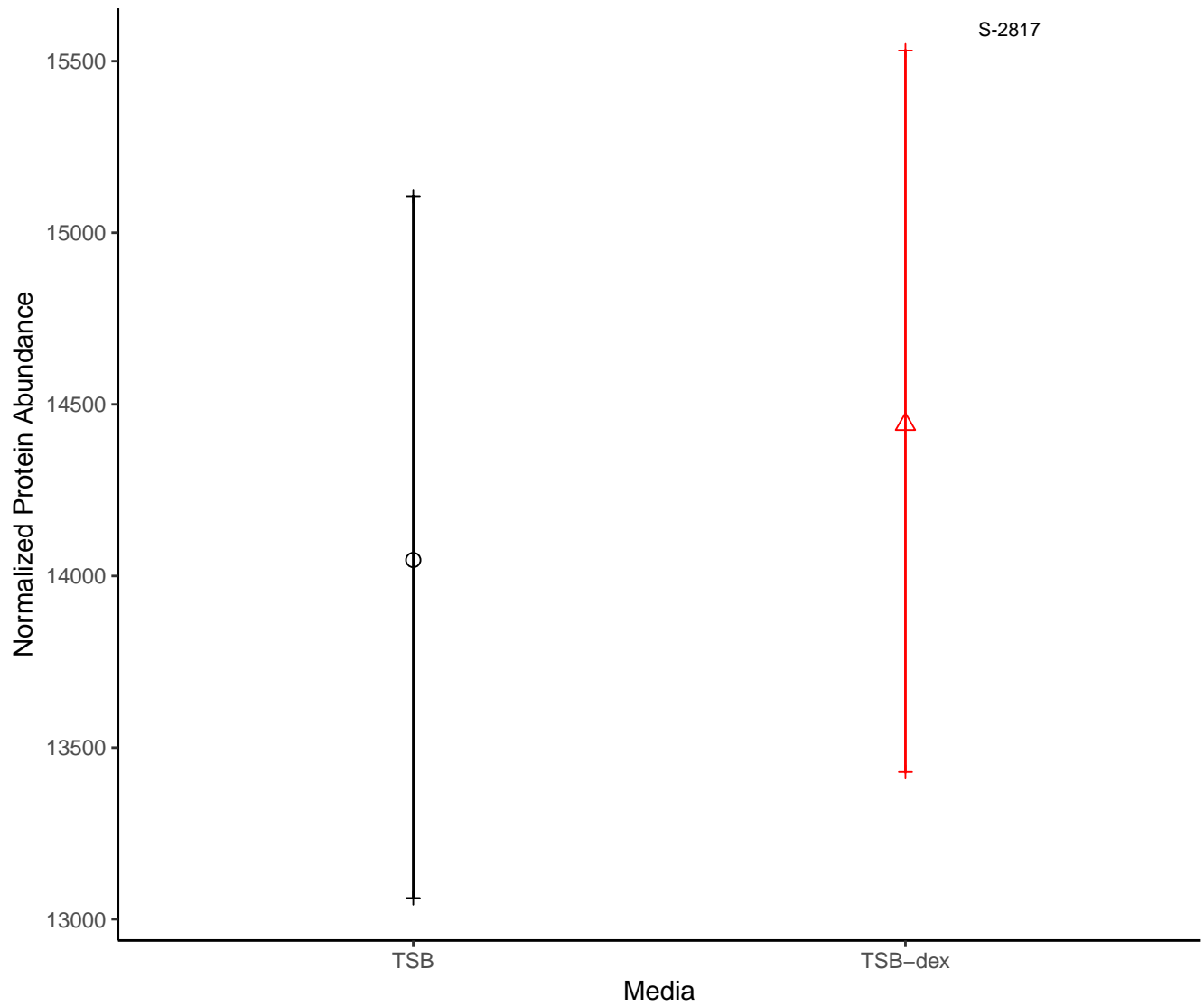


⊕ TSB-dex

△ TSB



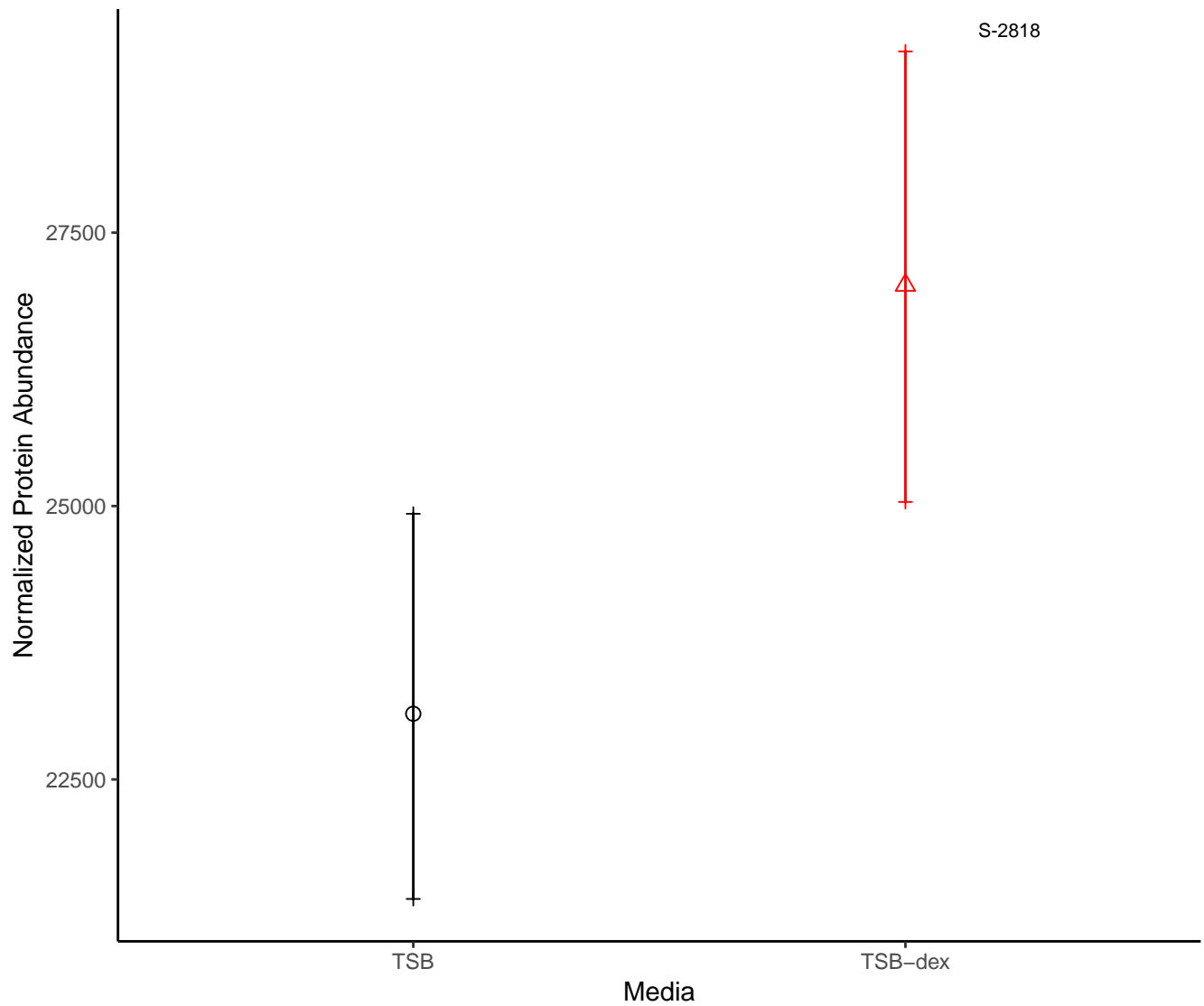
# RL14\_STAAM



⊕ TSB-dex

△ TSB

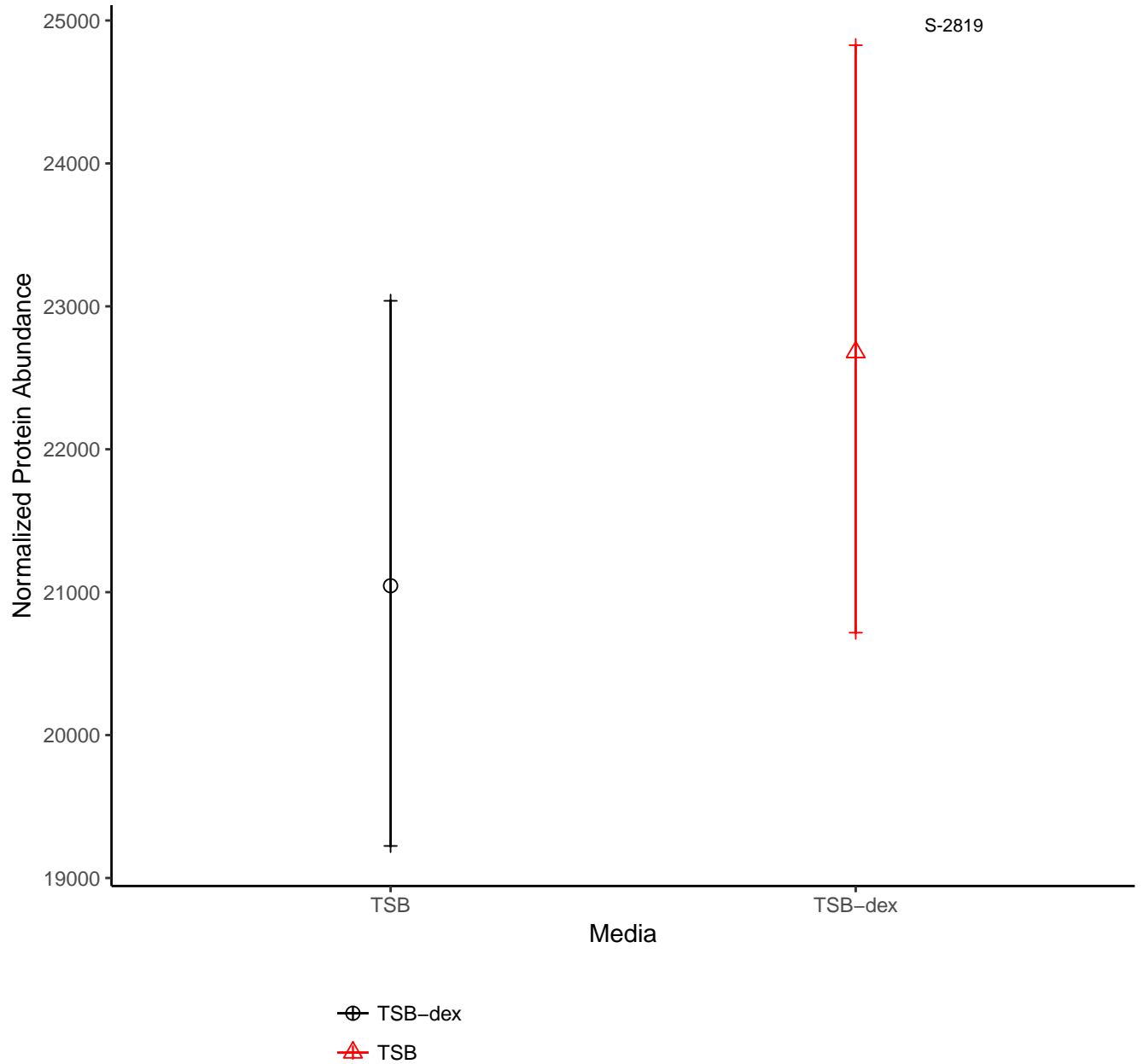
# RL15\_STAAM



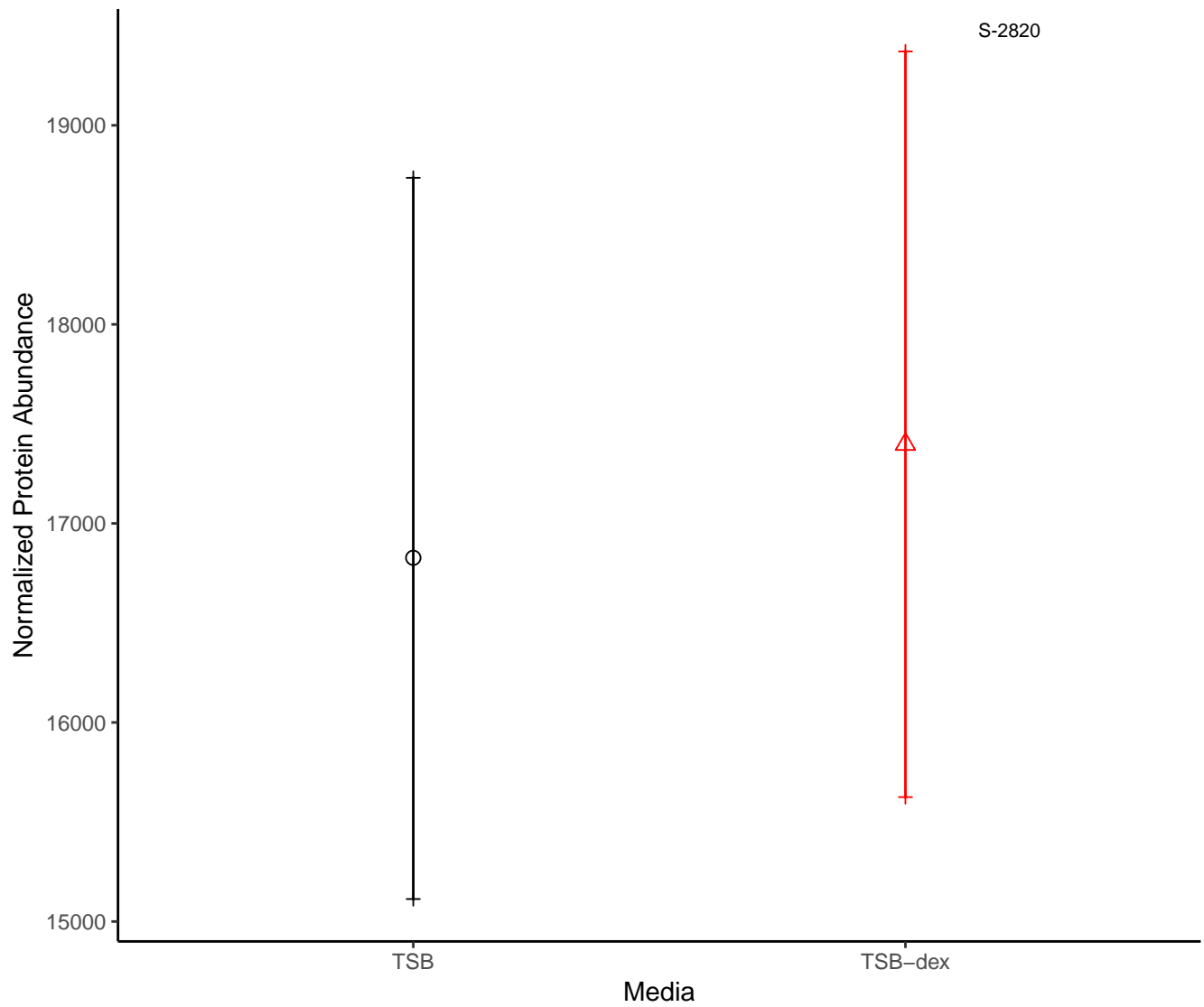
⊕ TSB-dex

△ TSB

# RL16\_STAAM



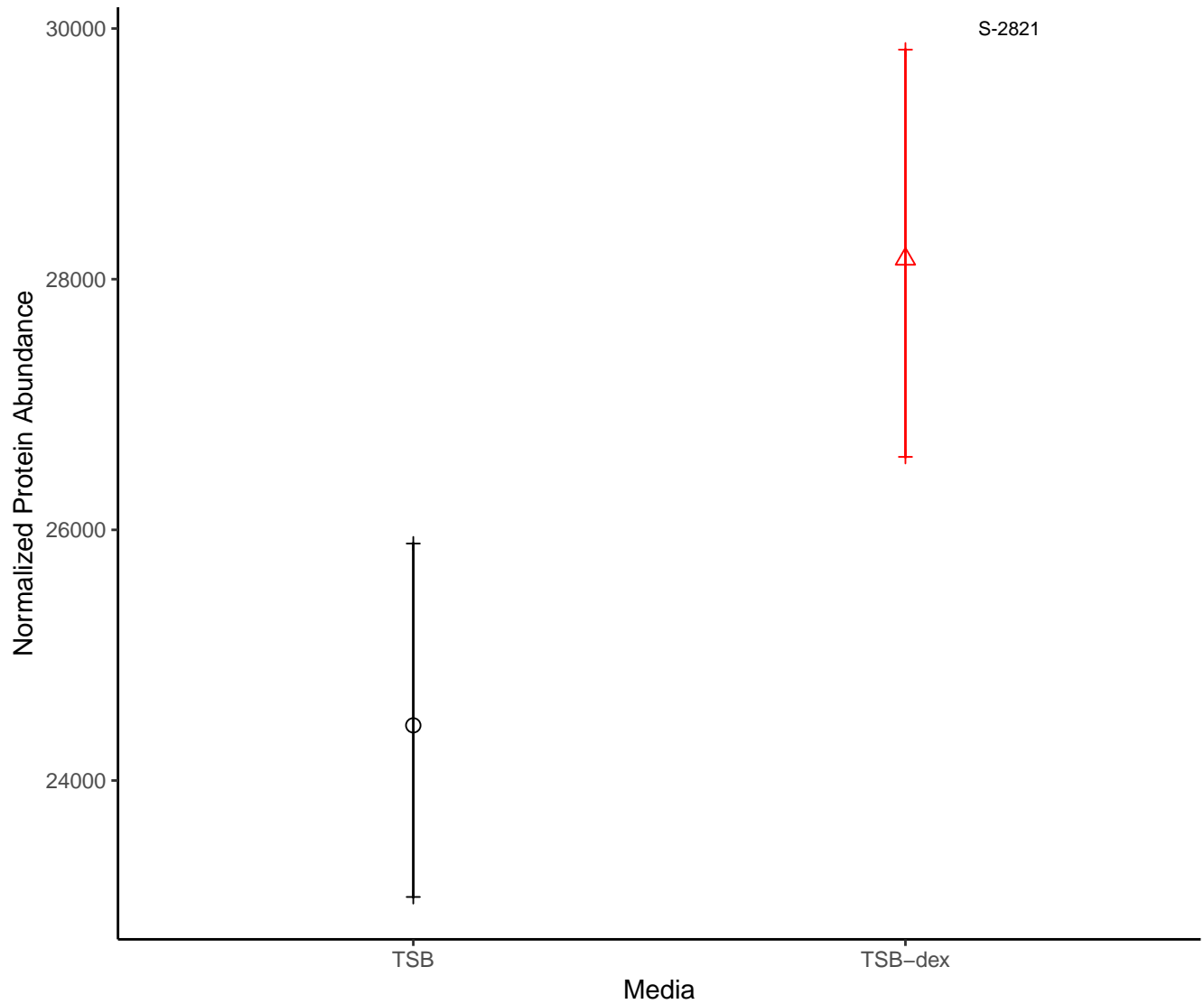
# RL17\_STAAM



⊖ TSB-dex

△ TSB

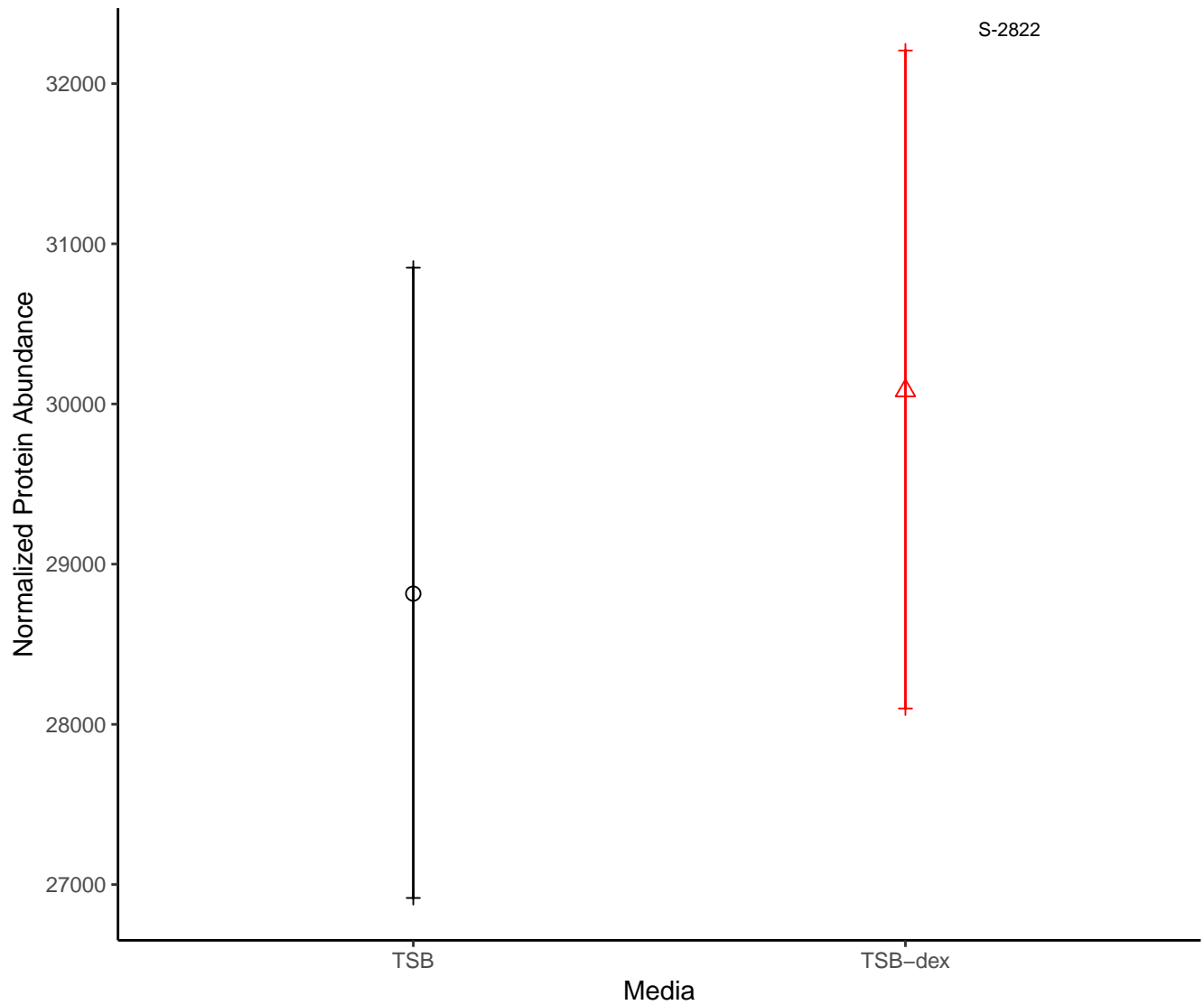
# RL18\_STAAM



⊖ TSB-dex

⊖ TSB

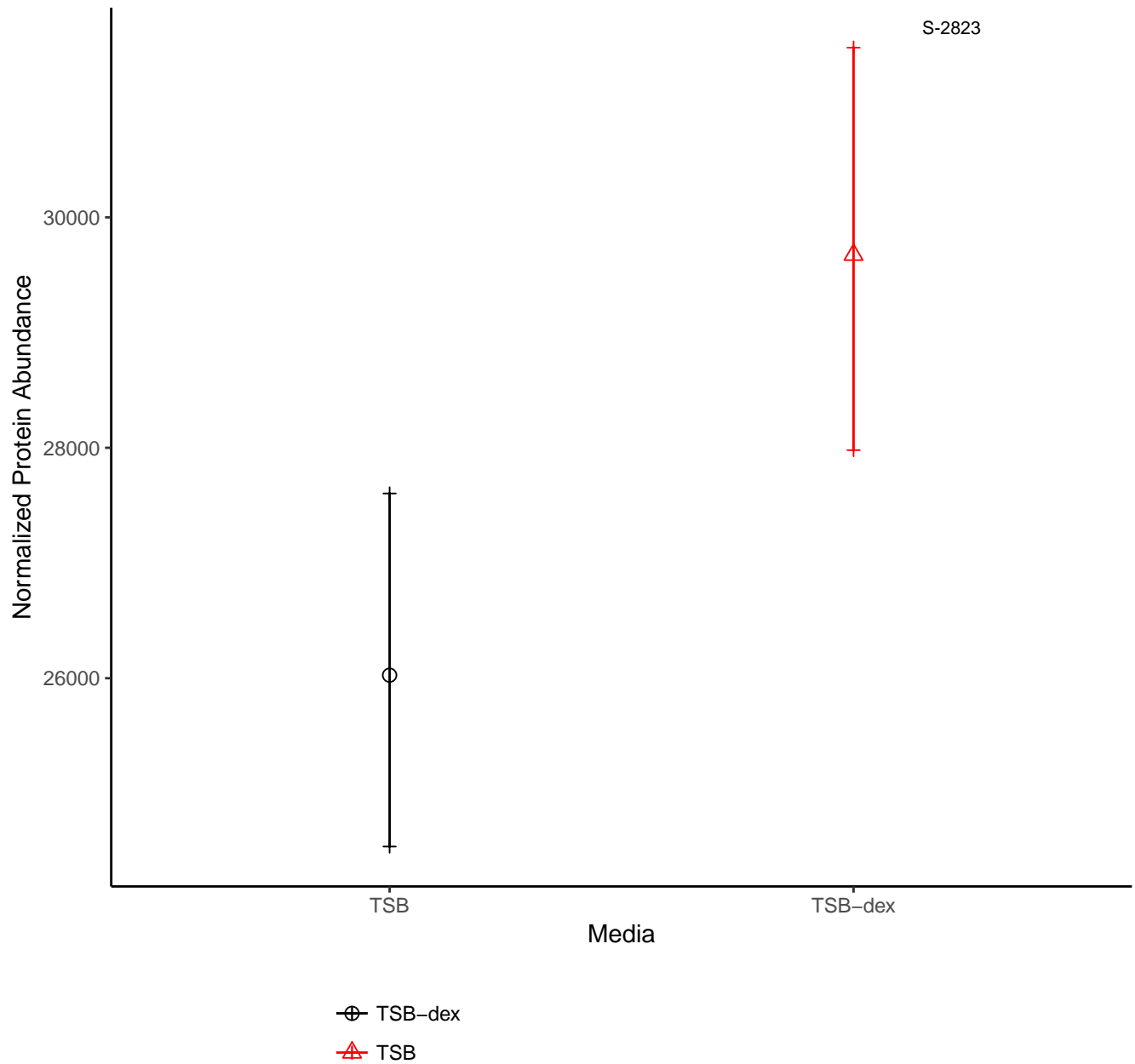
# RL19\_STAAM



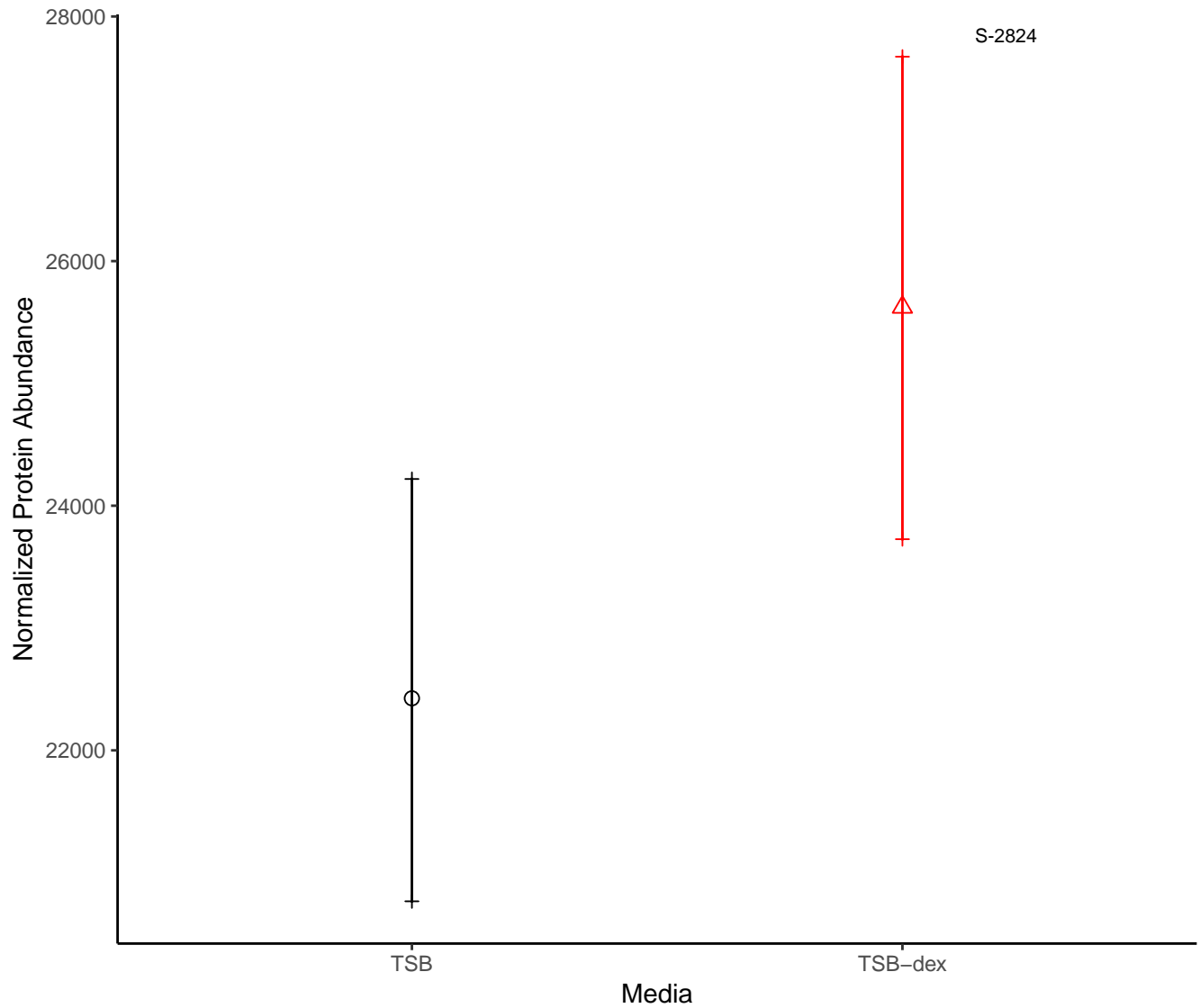
⊕ TSB-dex

△ TSB

# RL2\_STAAM



# RL20\_STAAM

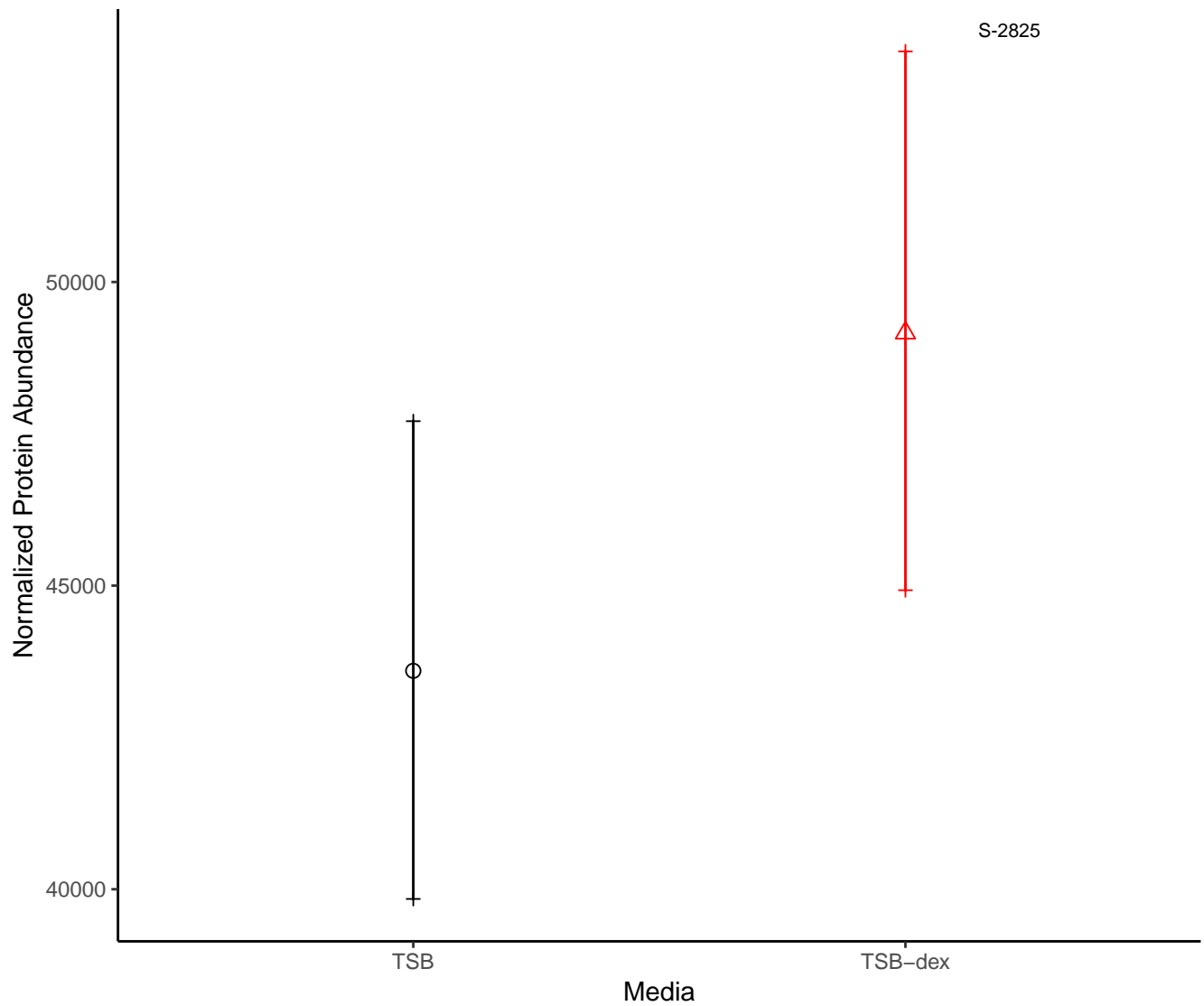


⊕ TSB-dex

△ TSB



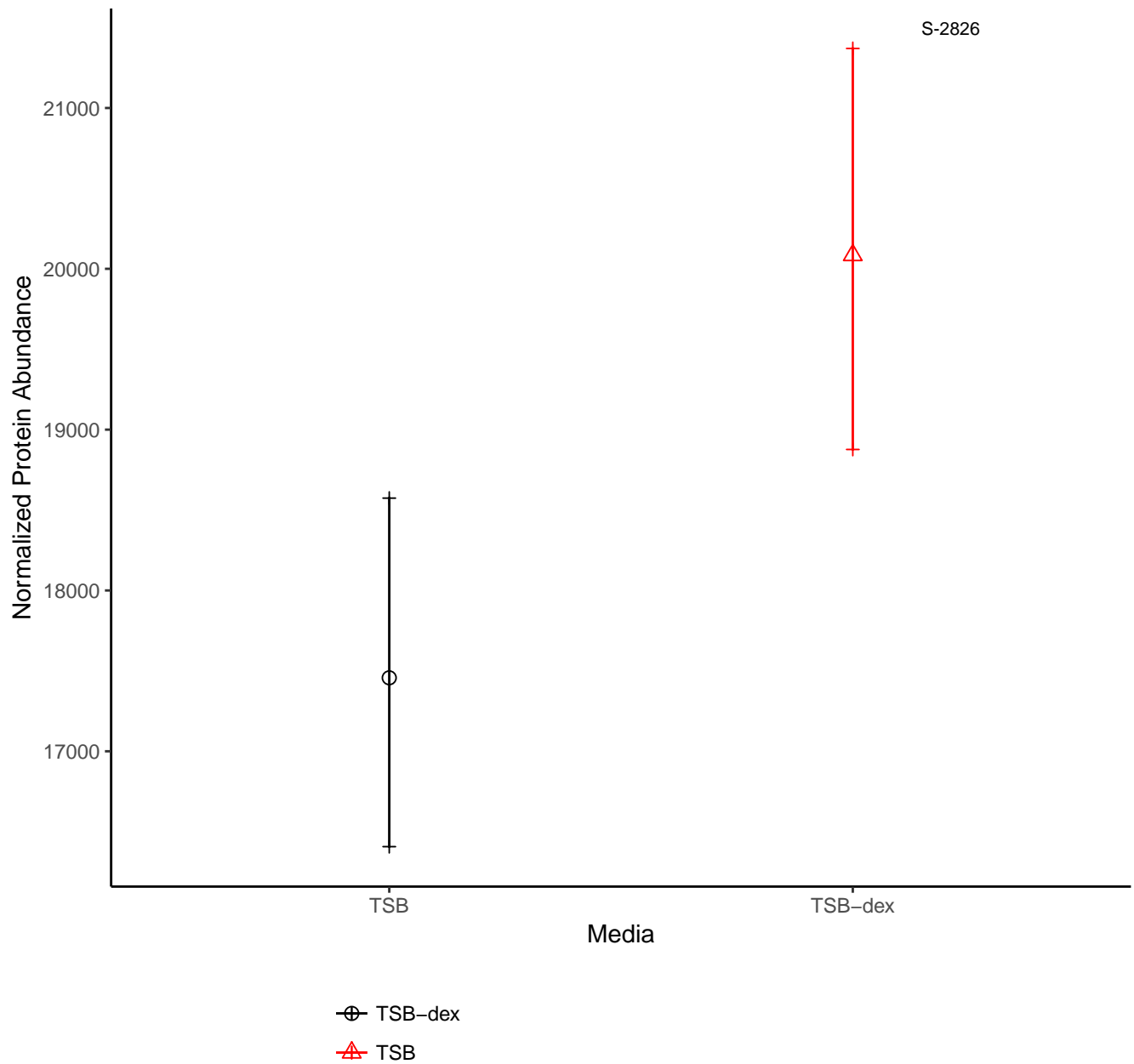
# RL21\_STAAM



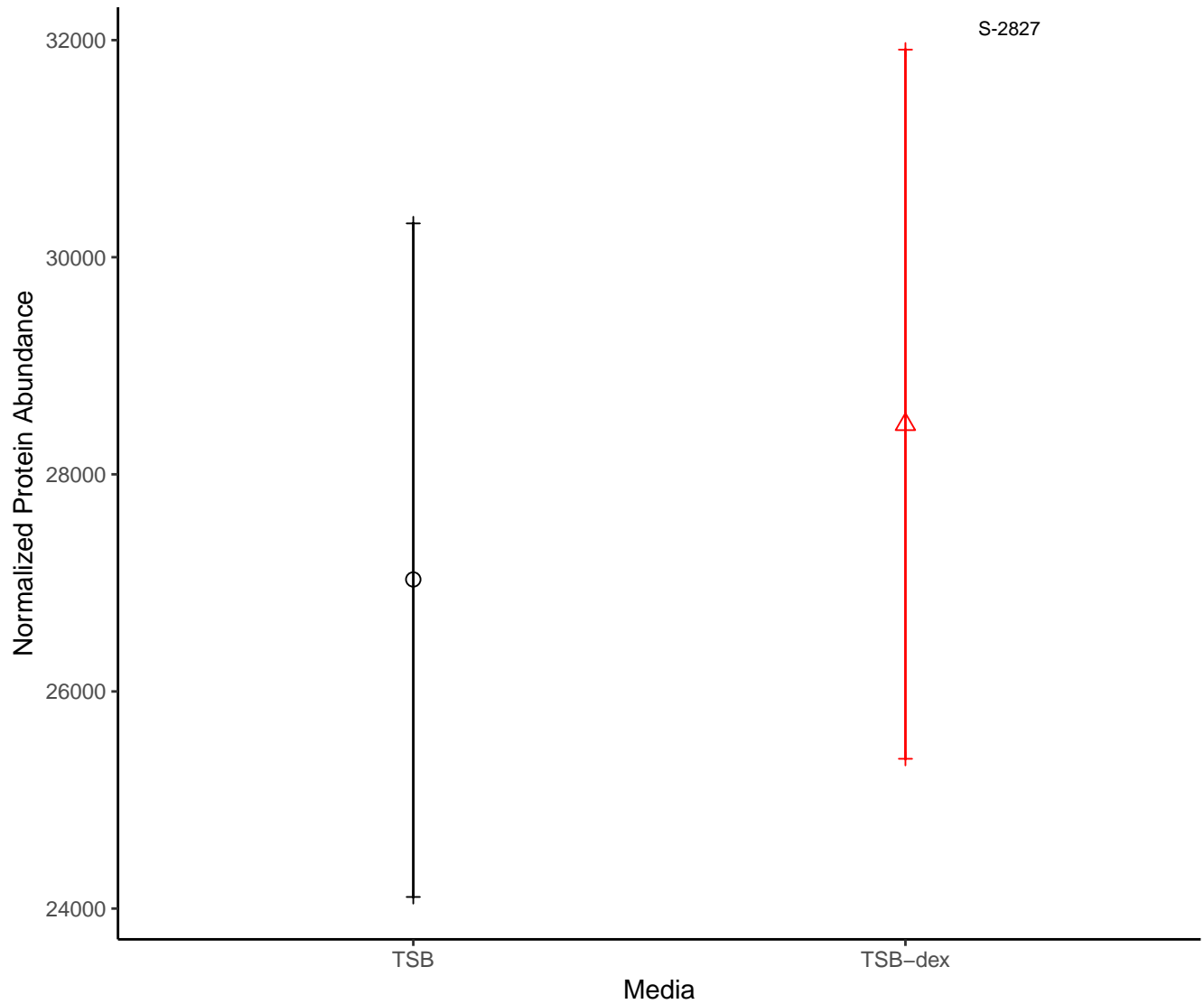
⊕ TSB-dex

△ TSB

# RL22\_STAAM



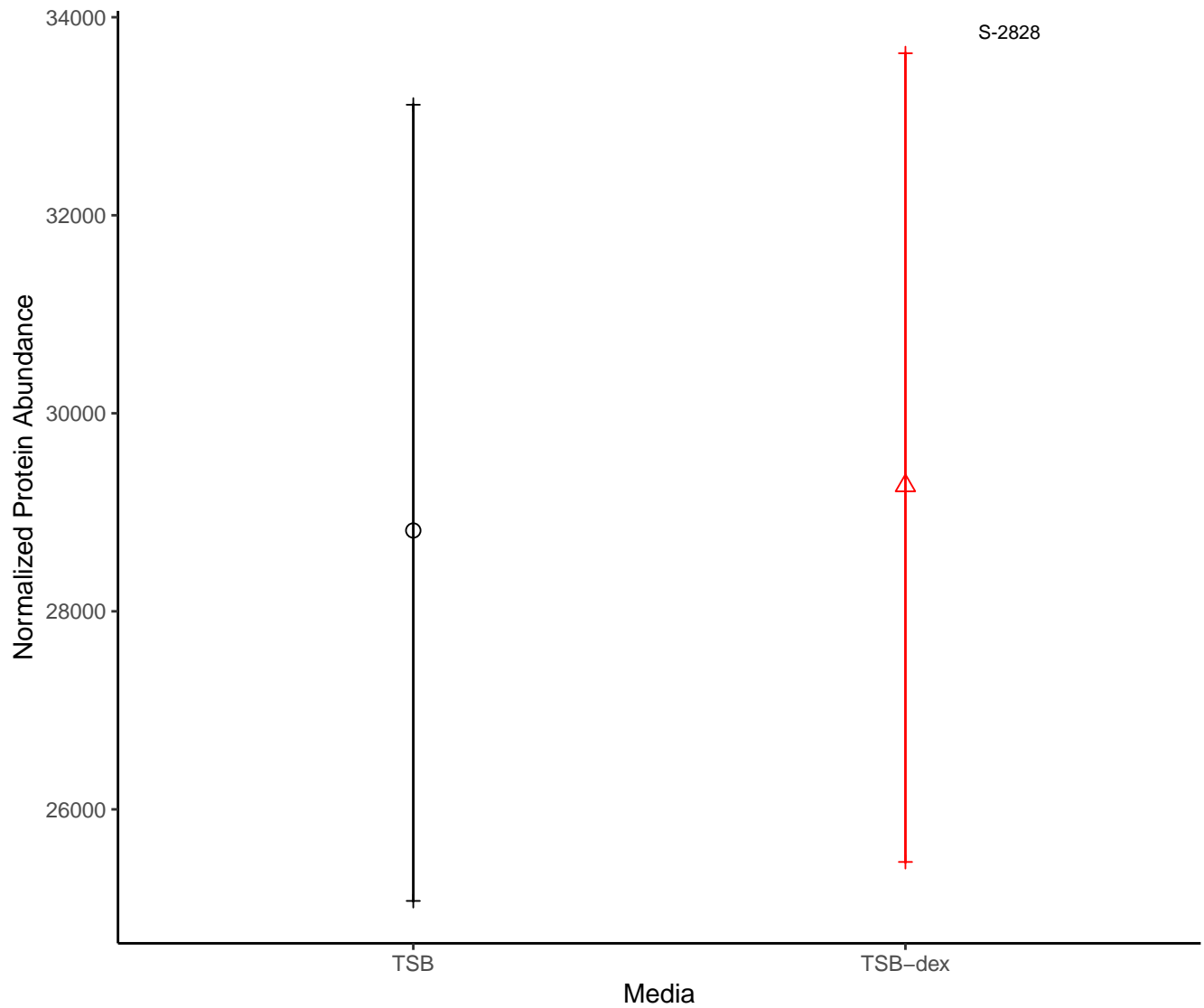
# RL23\_STAAM



⊕ TSB-dex

△ TSB

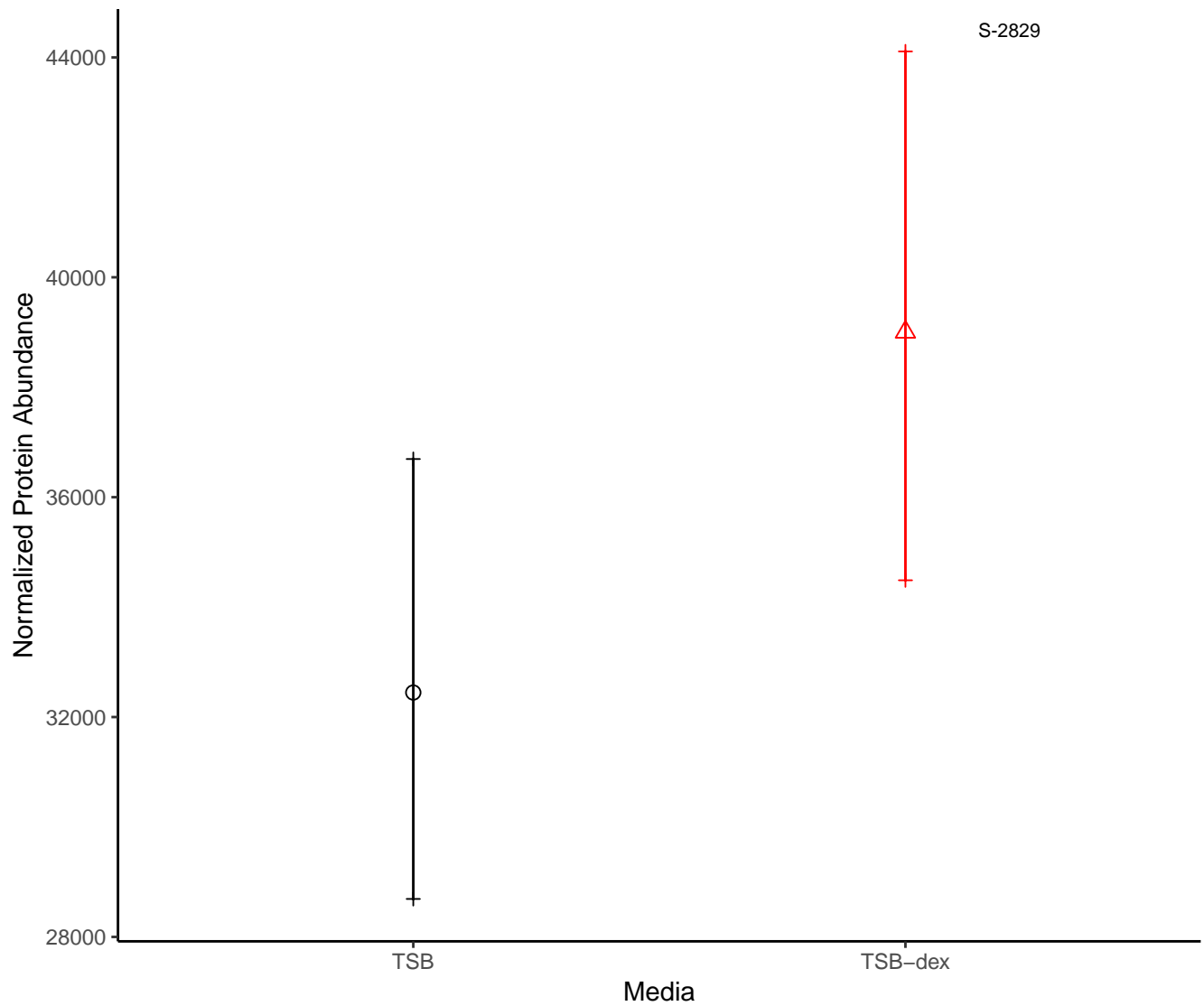
# RL24\_STAAM



⊕ TSB-dex

△ TSB

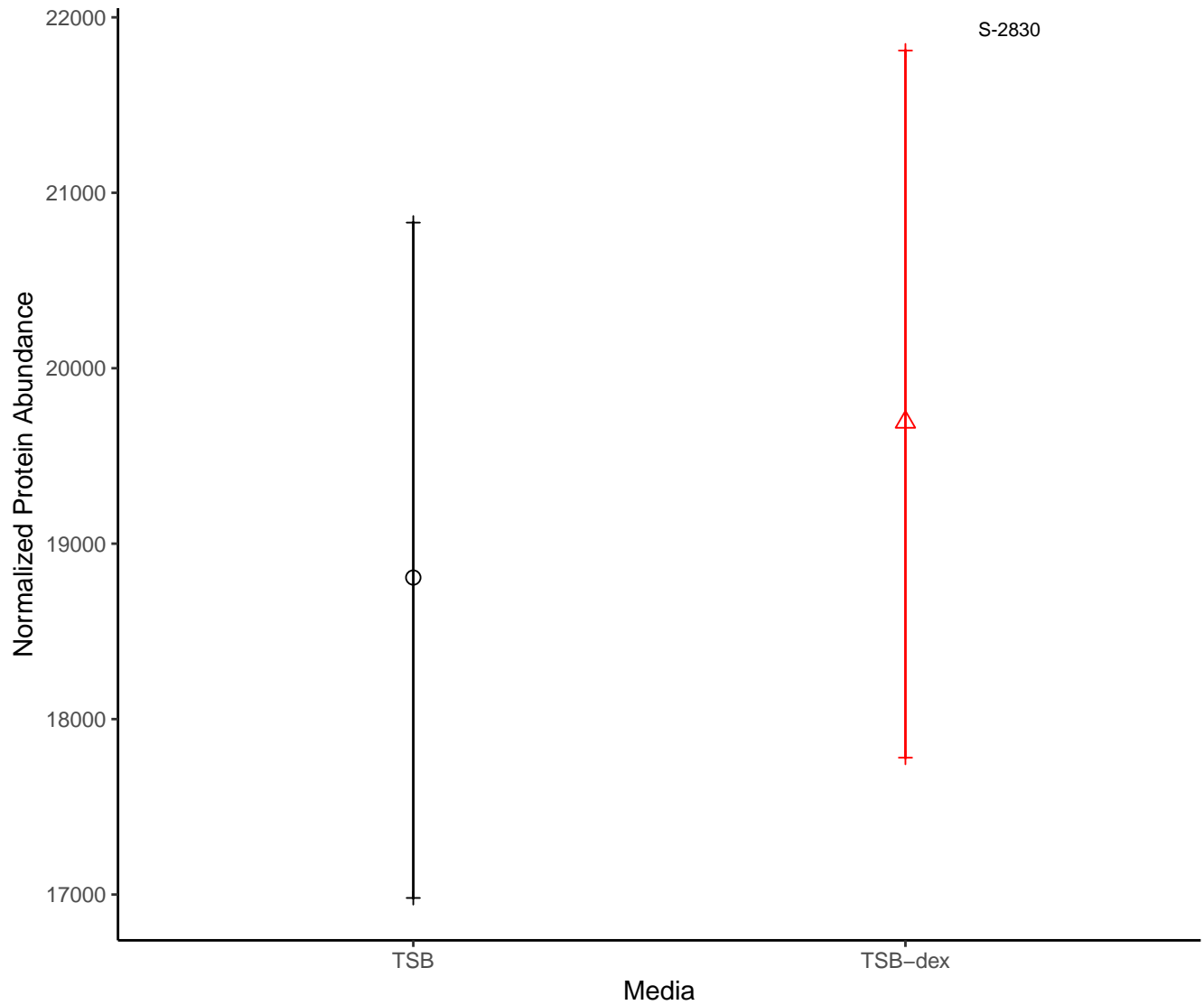
# RL25\_STAAM



⊕ TSB-dex

△ TSB

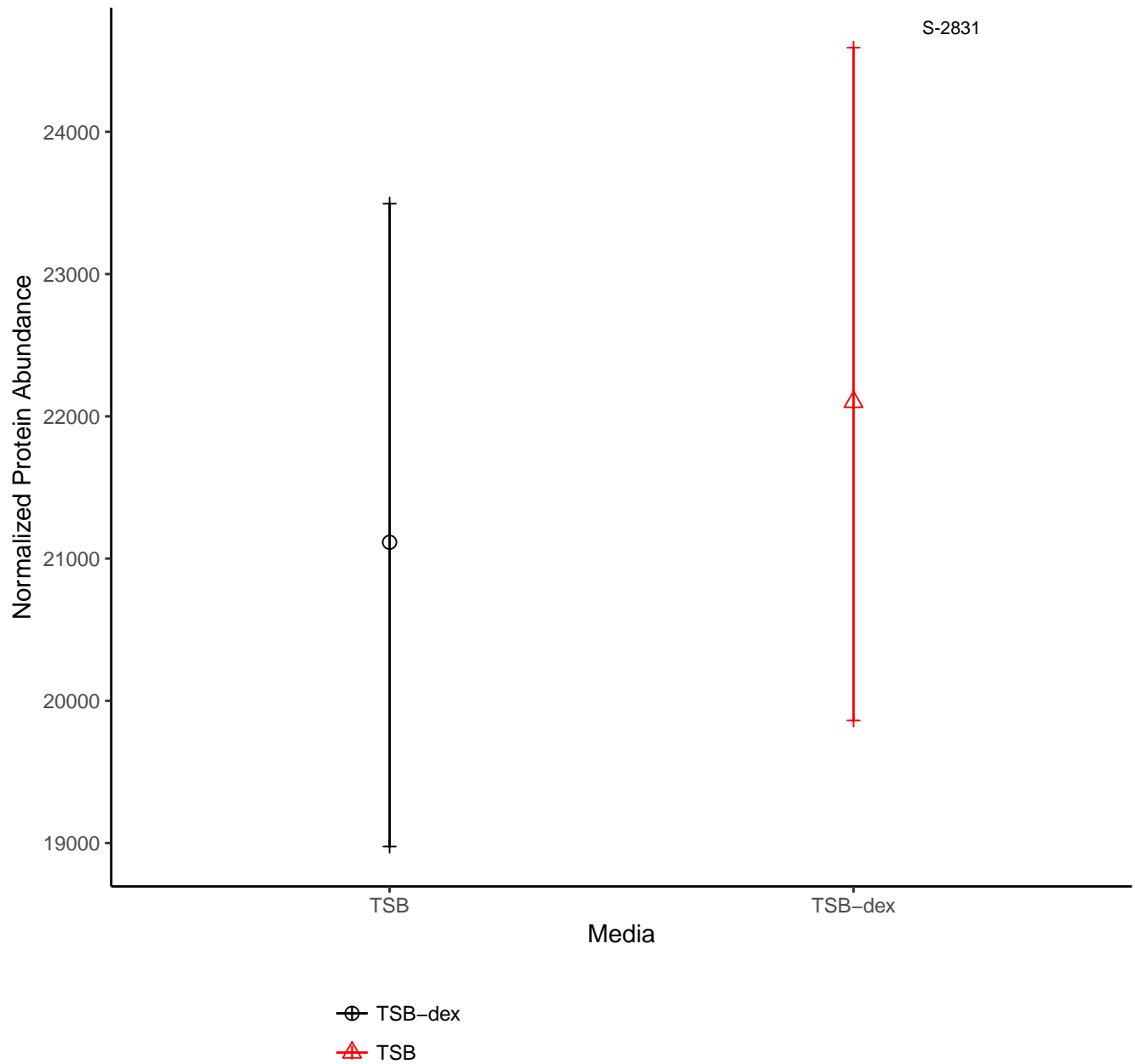
# RL27\_STAAM



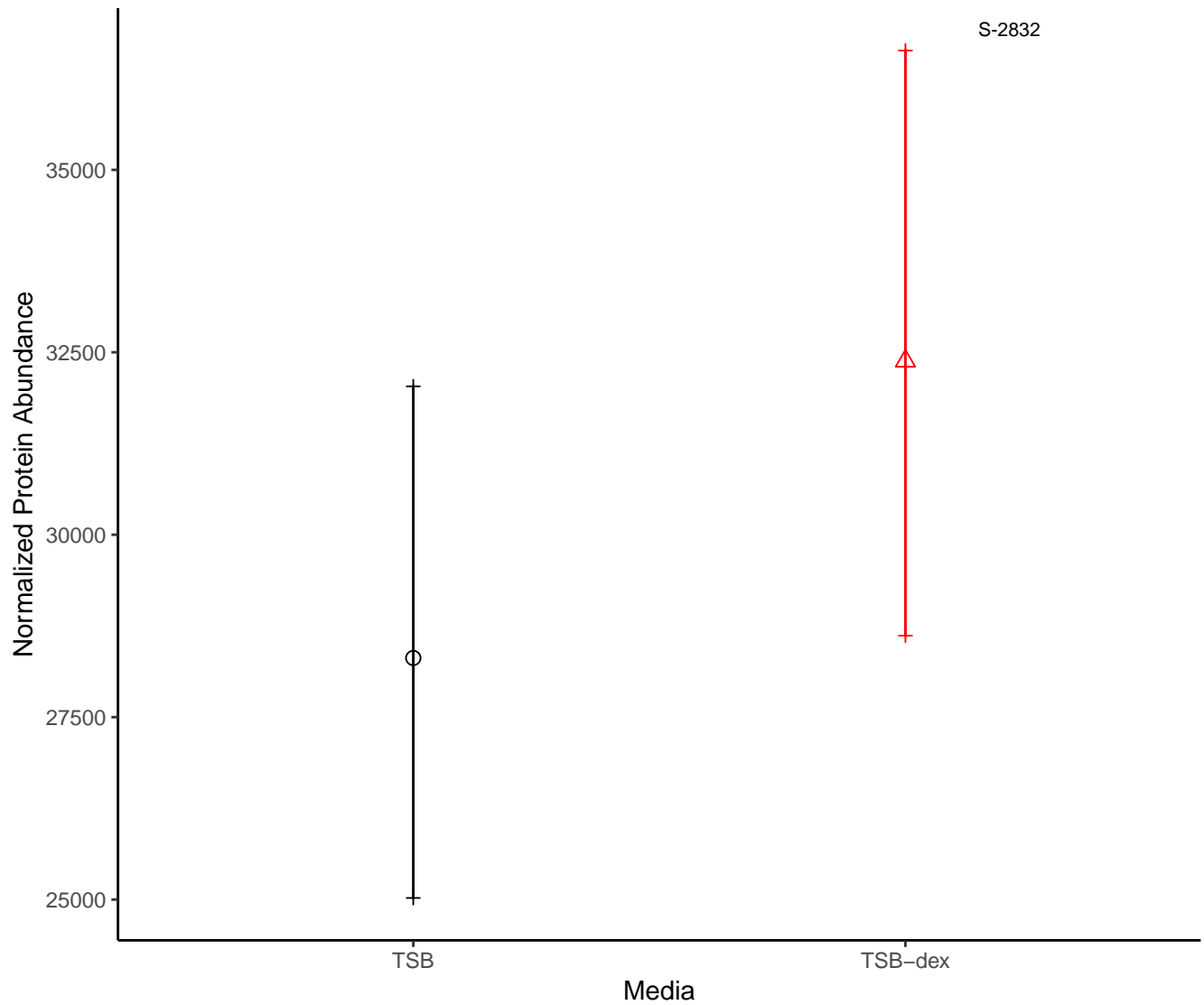
⊕ TSB-dex

△ TSB

# RL28\_STAAM



# RL29\_STAAM

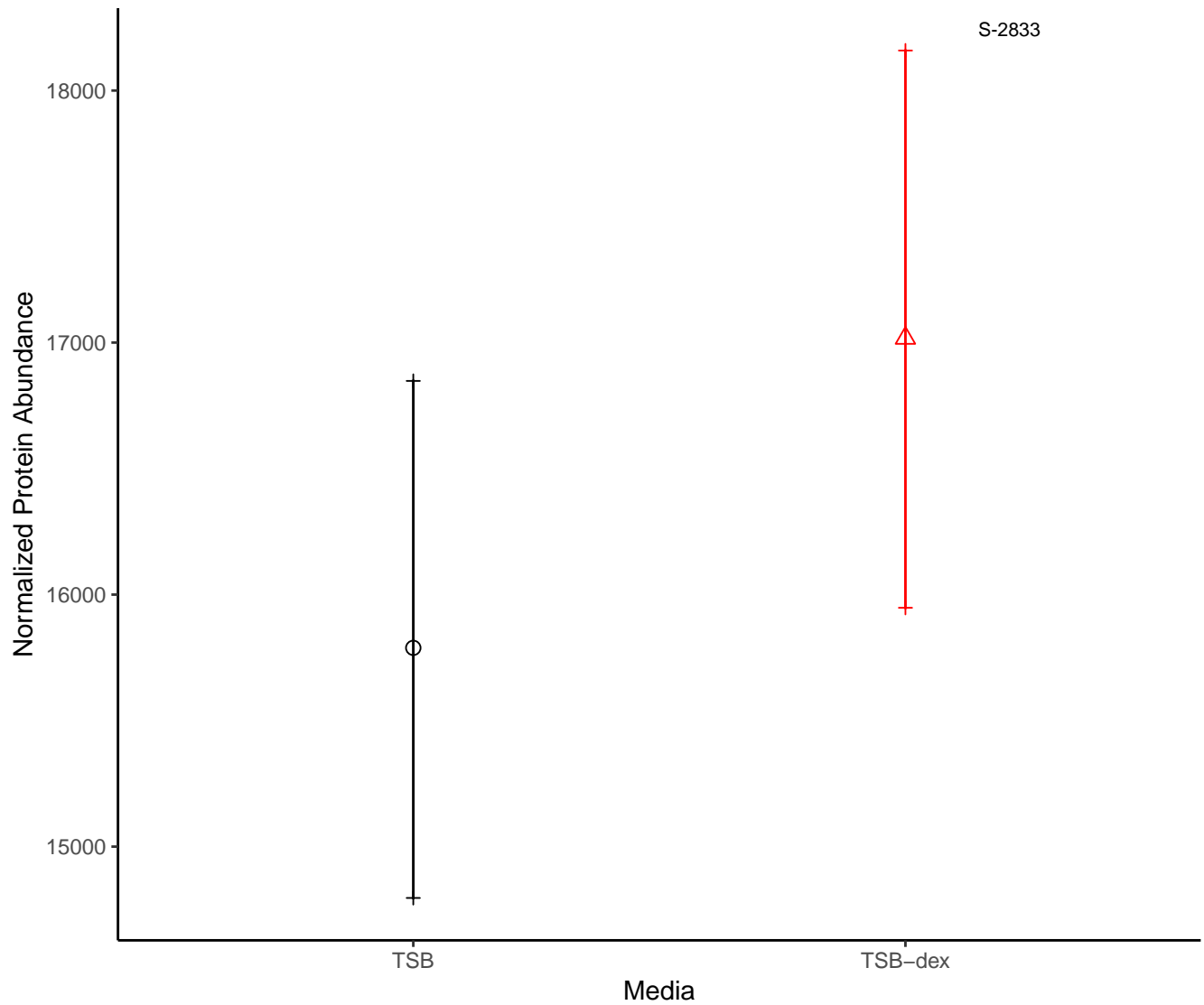


● TSB-dex

▲ TSB



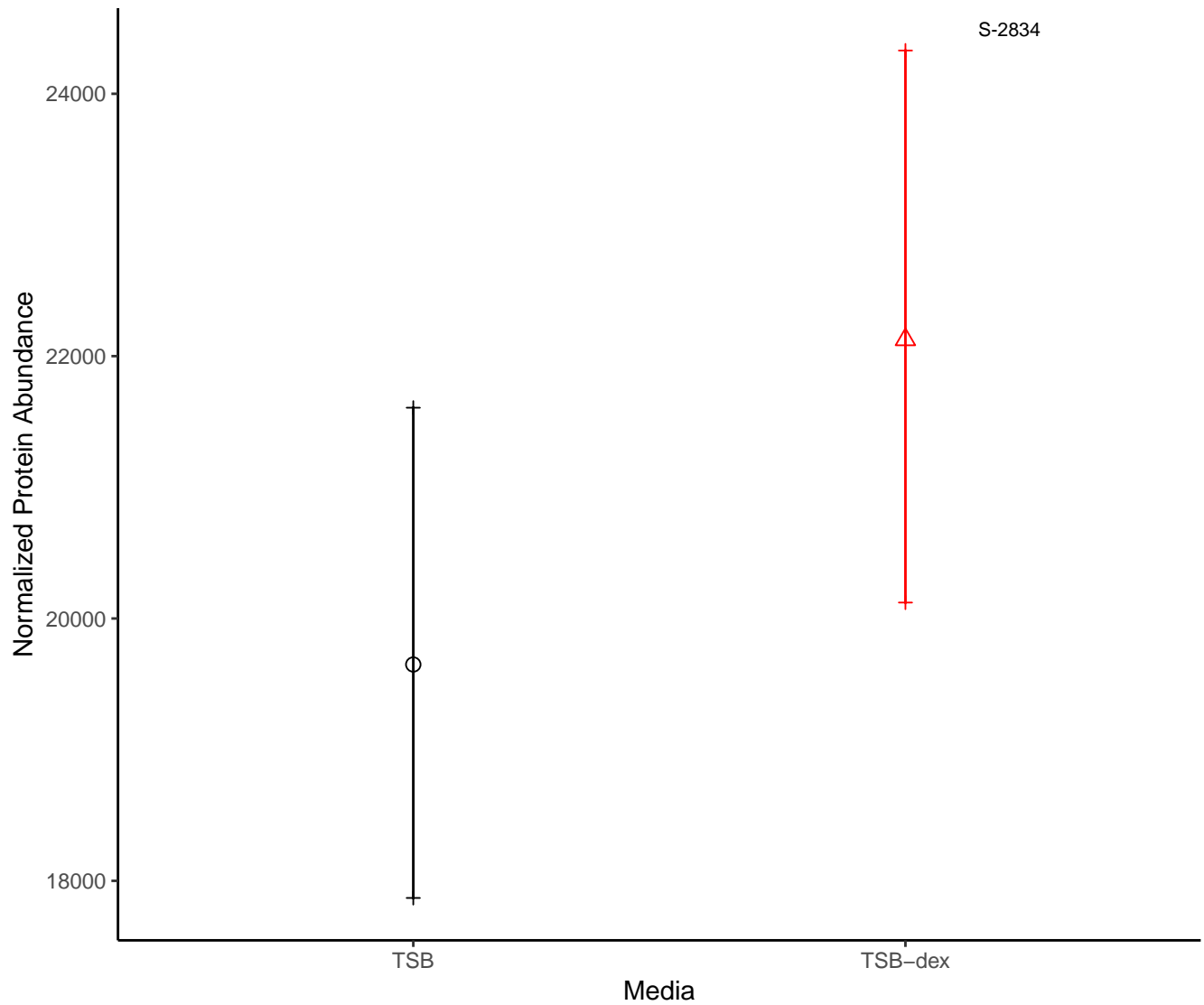
# RL3\_STAAM



⊖ TSB-dex

△ TSB

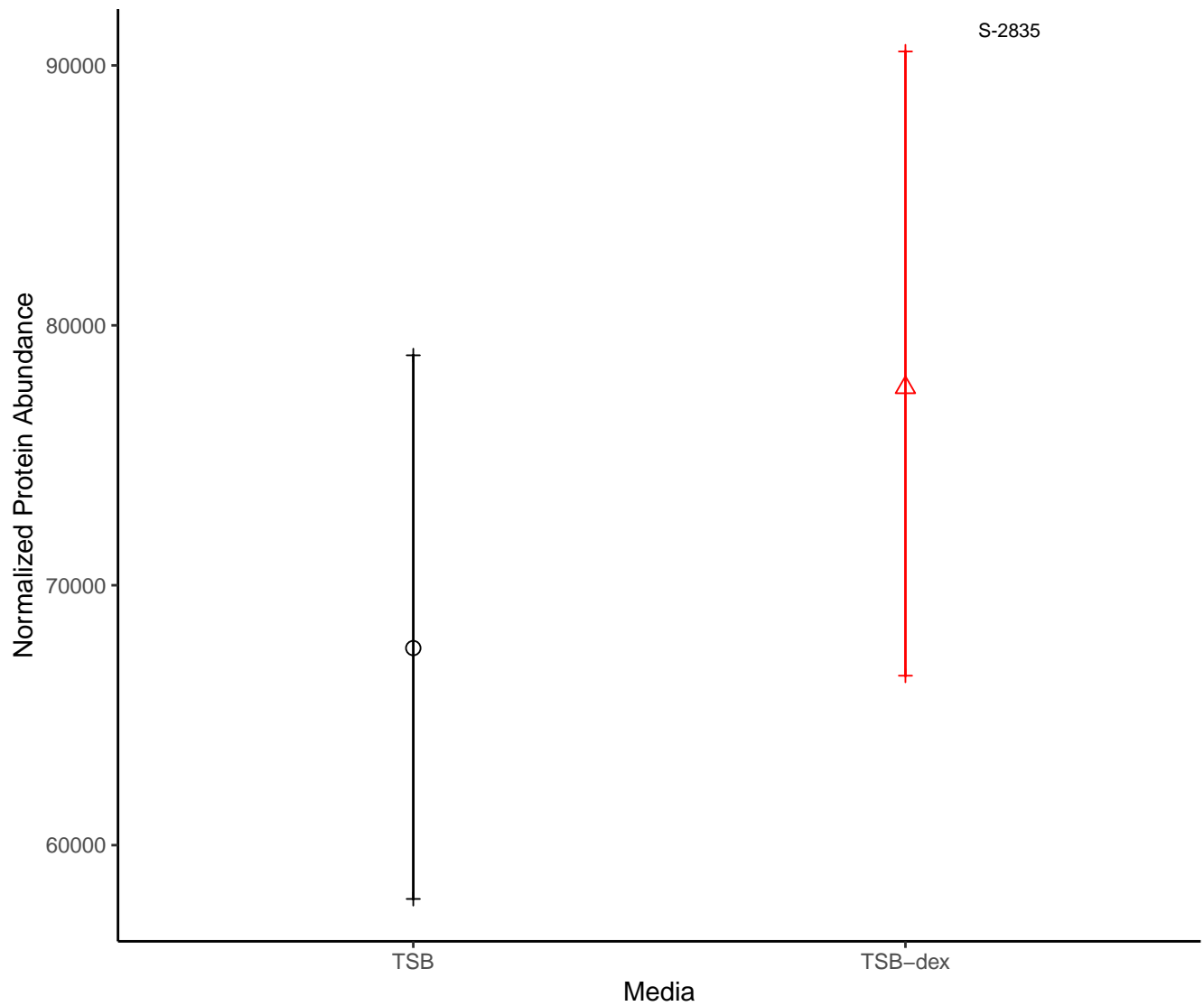
# RL30\_STAAM



⊕ TSB-dex

△ TSB

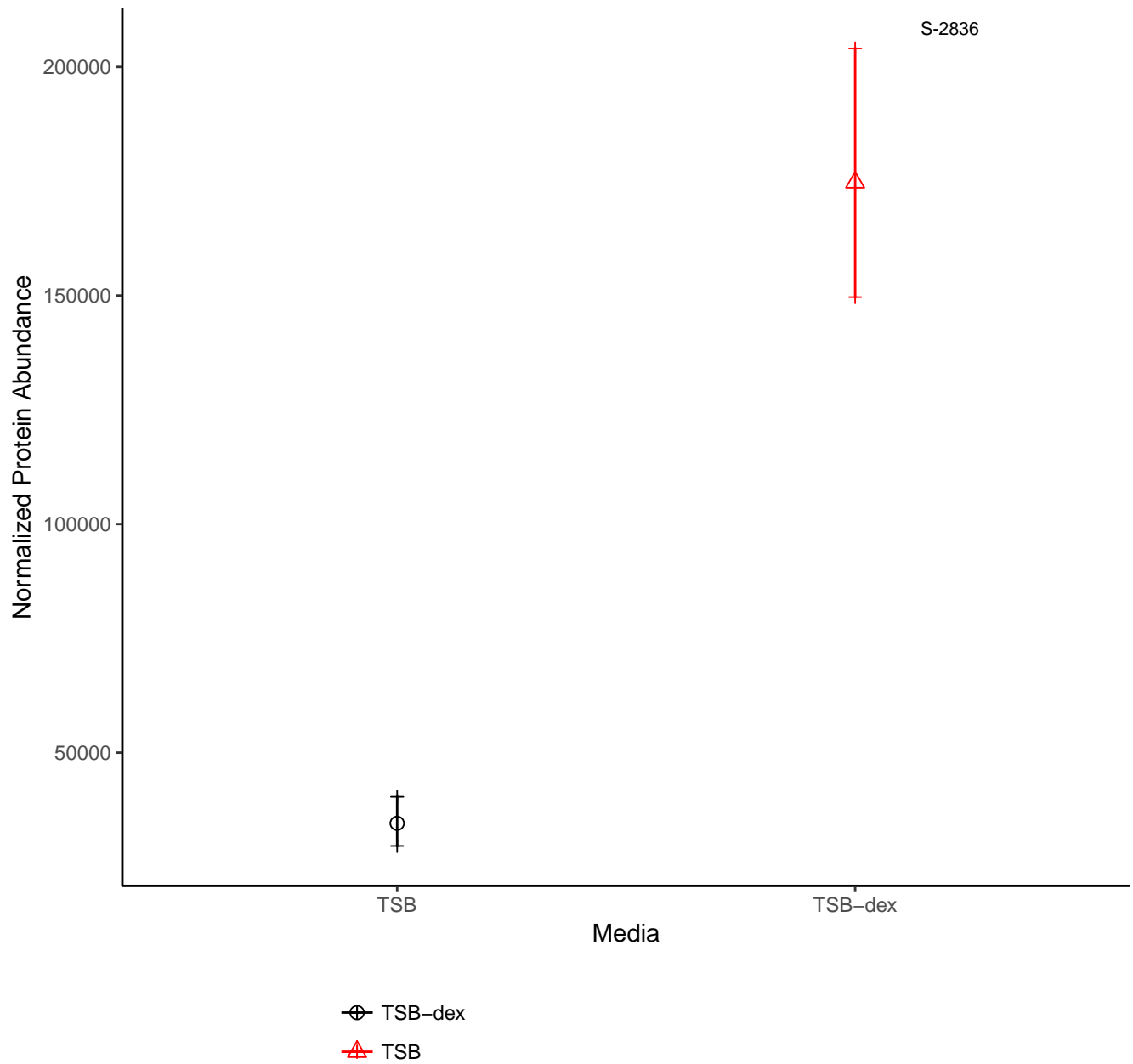
# RL31B\_STAAM



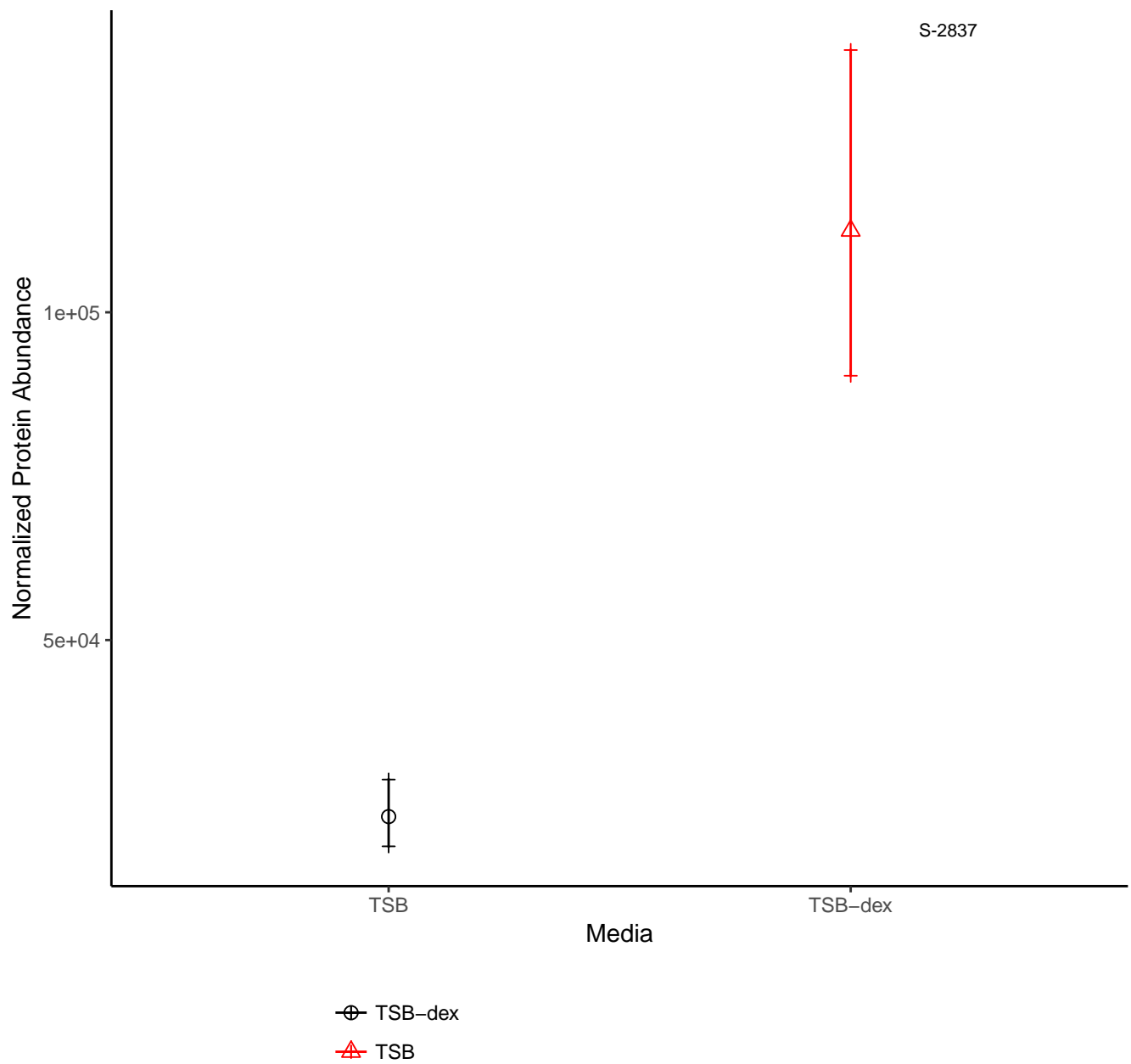
⊖ TSB-dex

△ TSB

# RL32\_STAAM

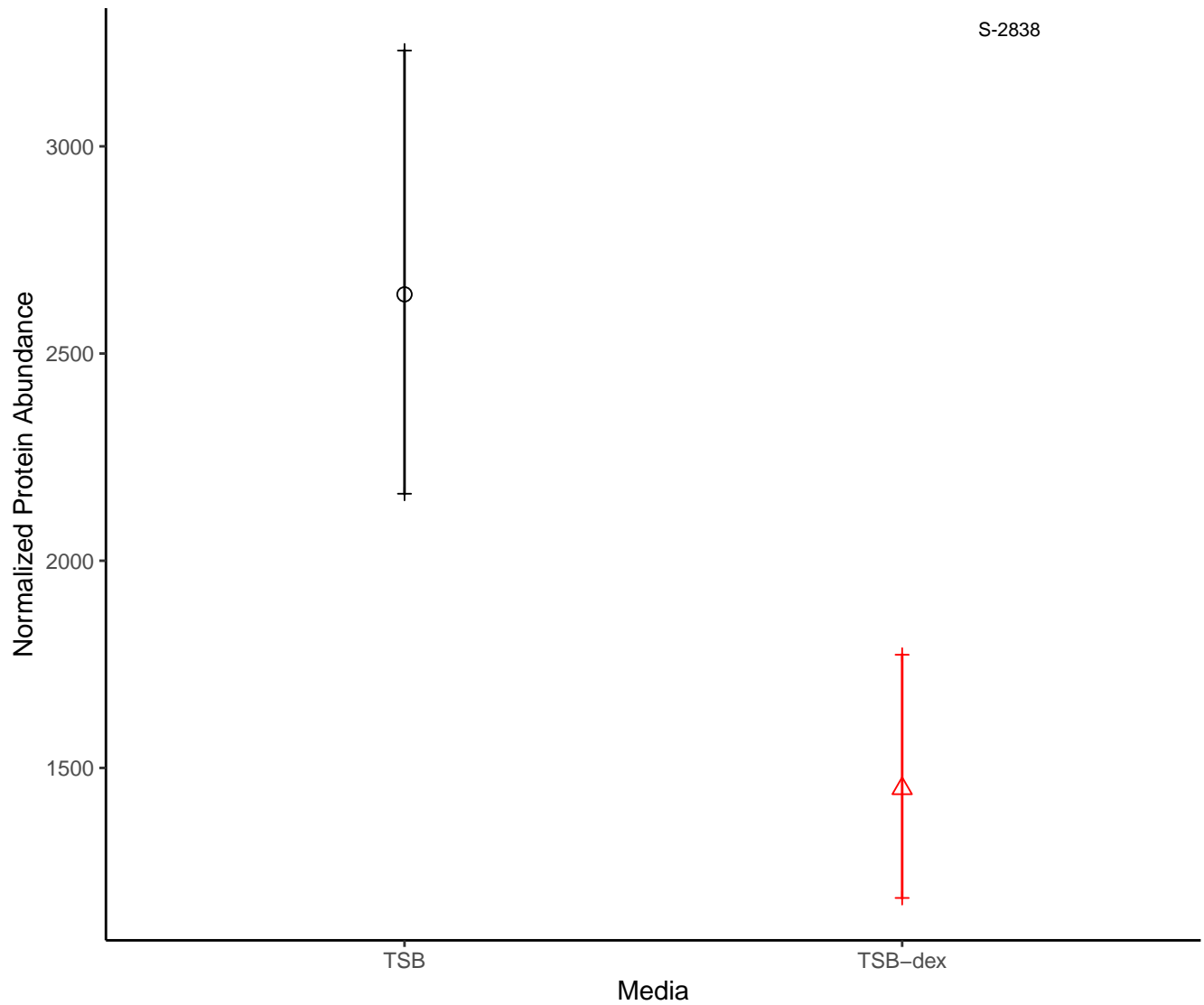


# RL331\_STAAM



# RL332\_STAAM

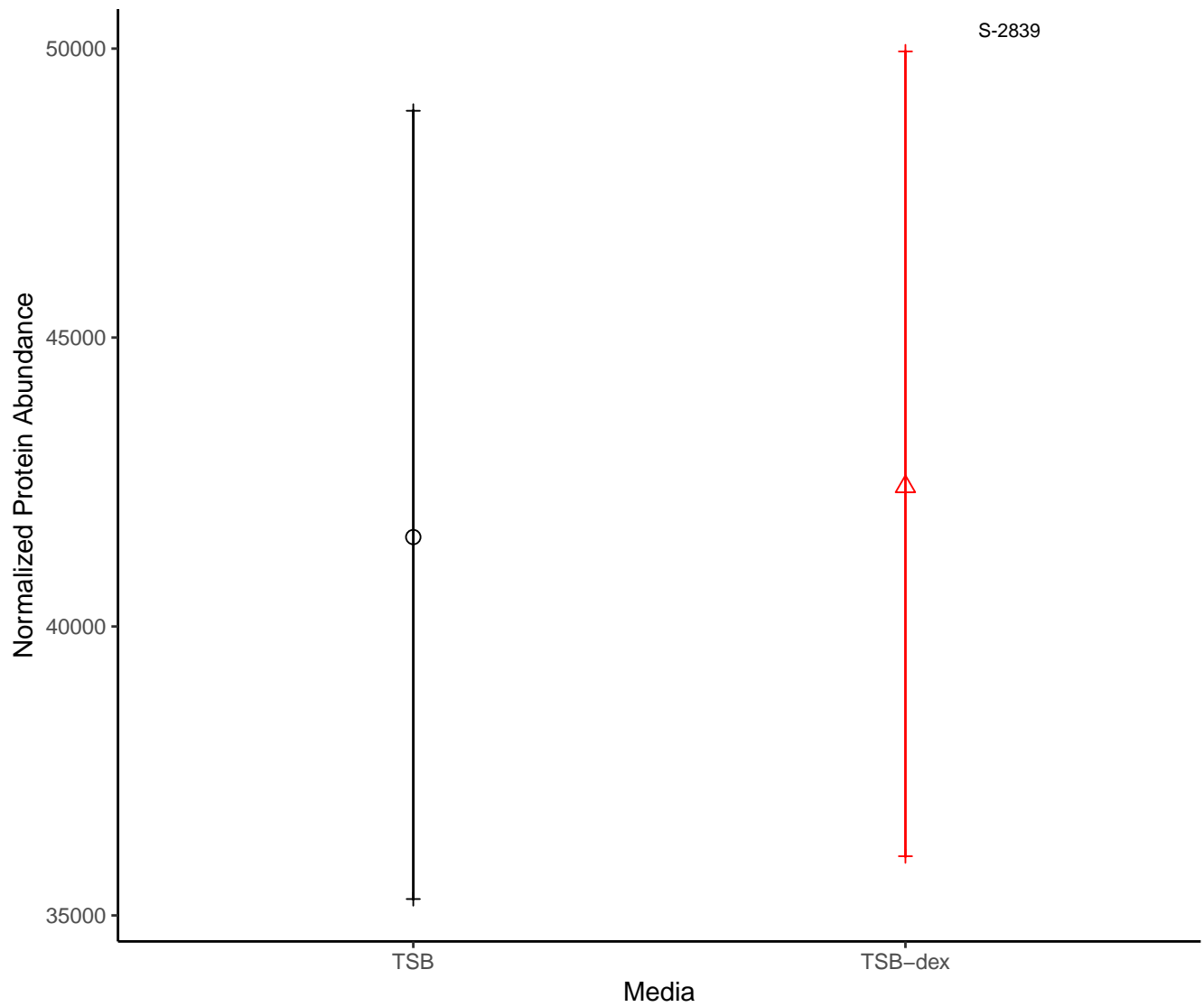
S-2838



⊕ TSB-dex

△ TSB

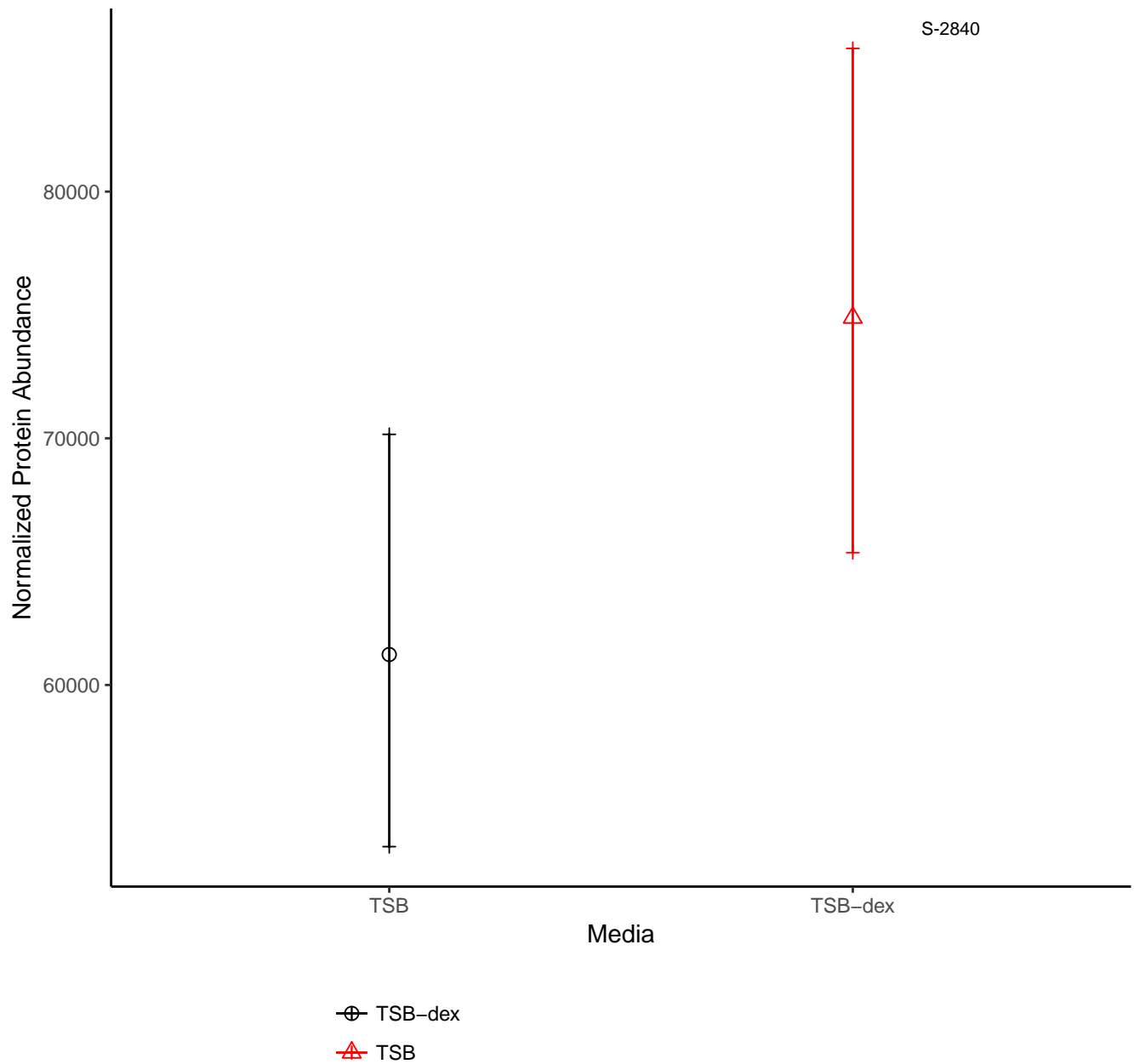
# RL35\_STAAM



⊕ TSB-dex

△ TSB

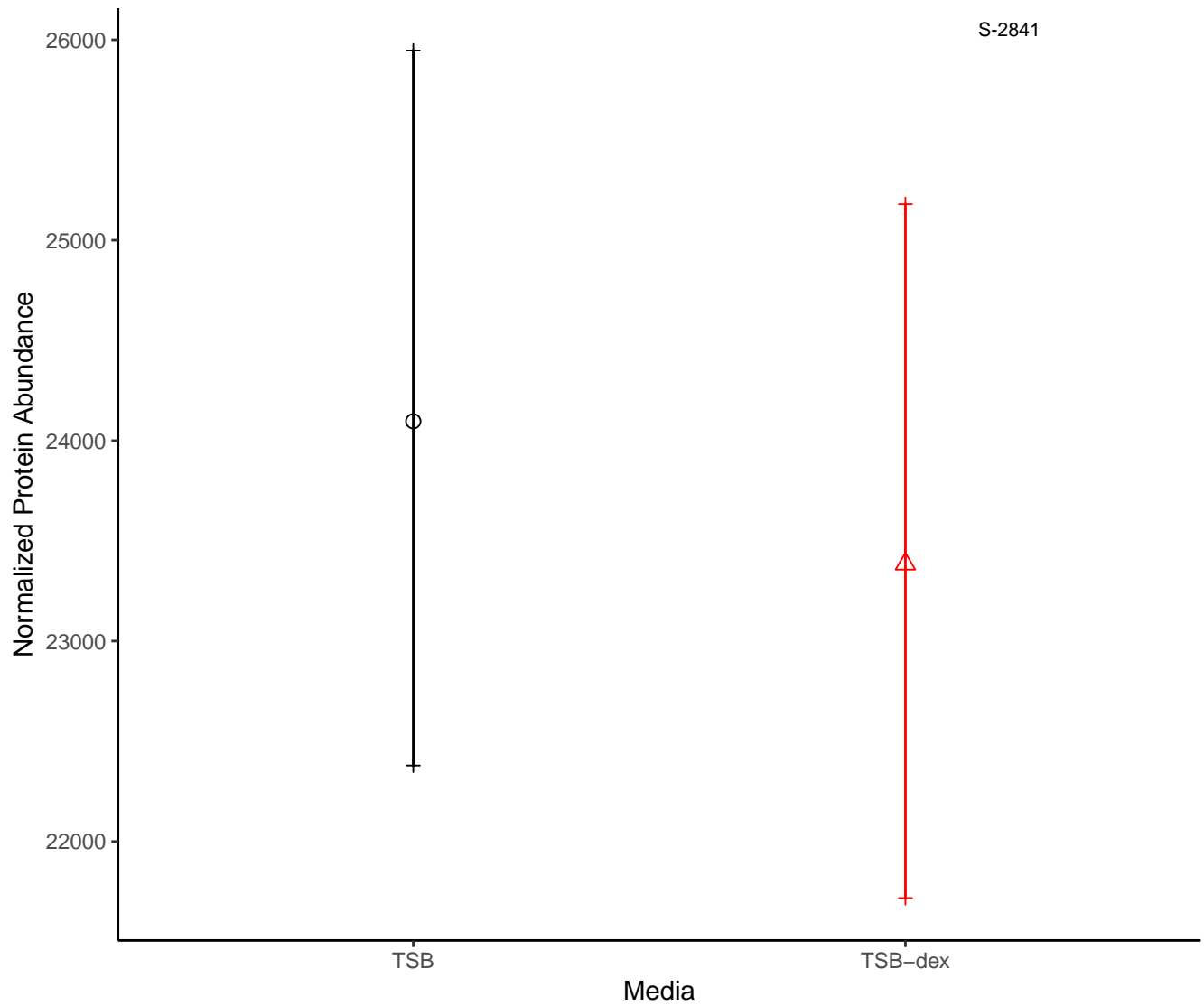
# RL36\_STAAM





# RL4\_STAAM

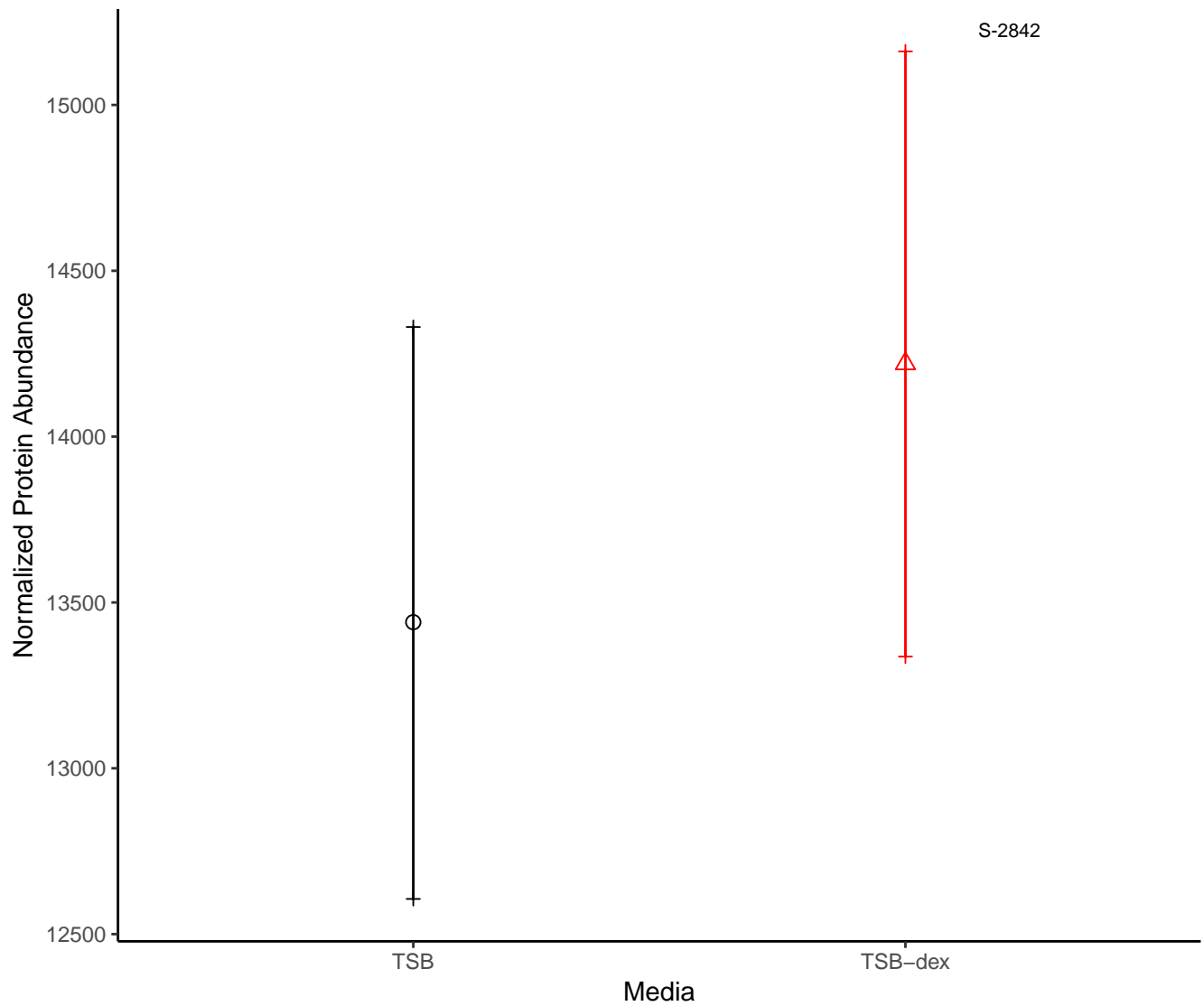
S-2841



⊕ TSB-dex

△ TSB

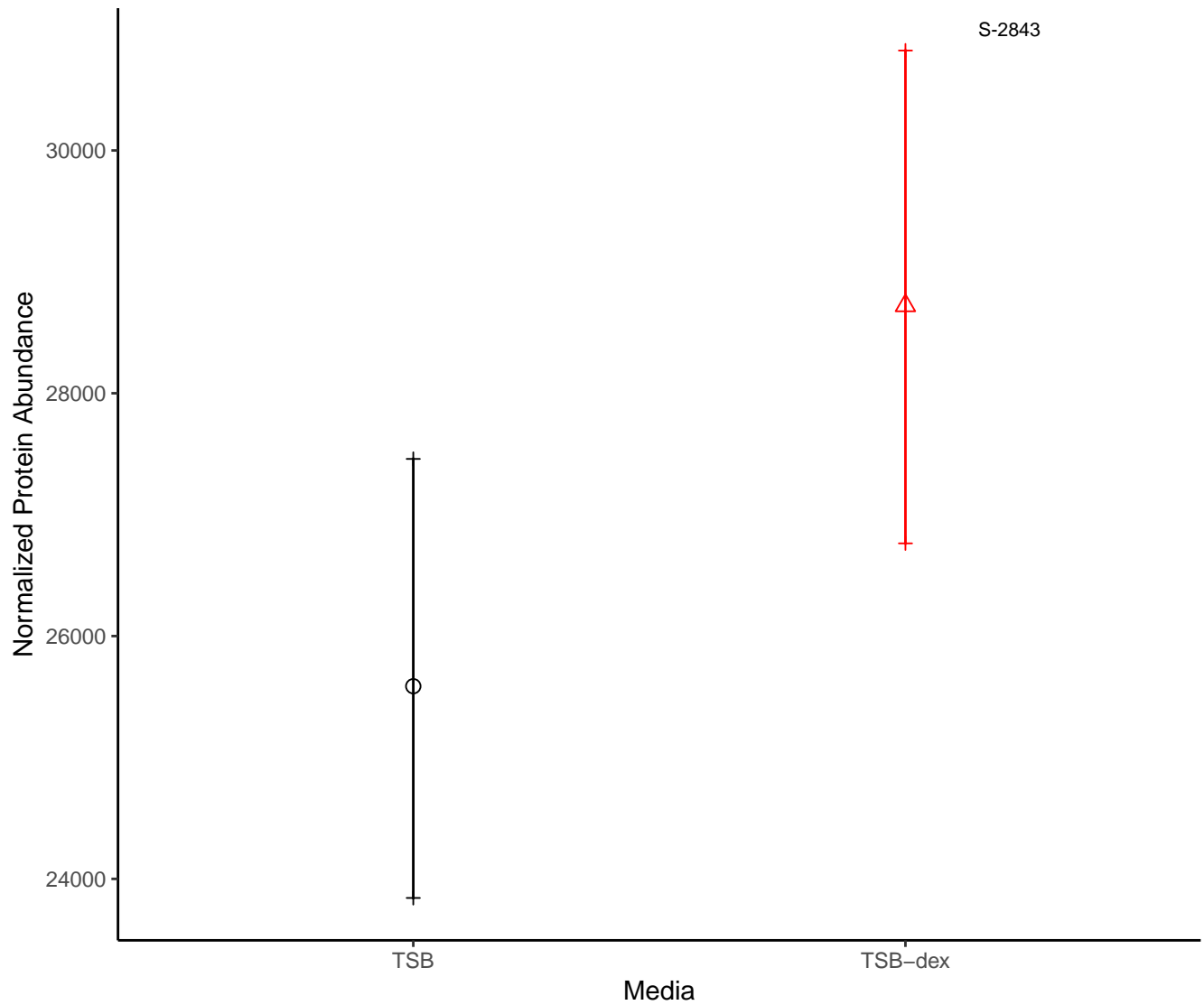
# RL5\_STAAM



⊕ TSB-dex

△ TSB

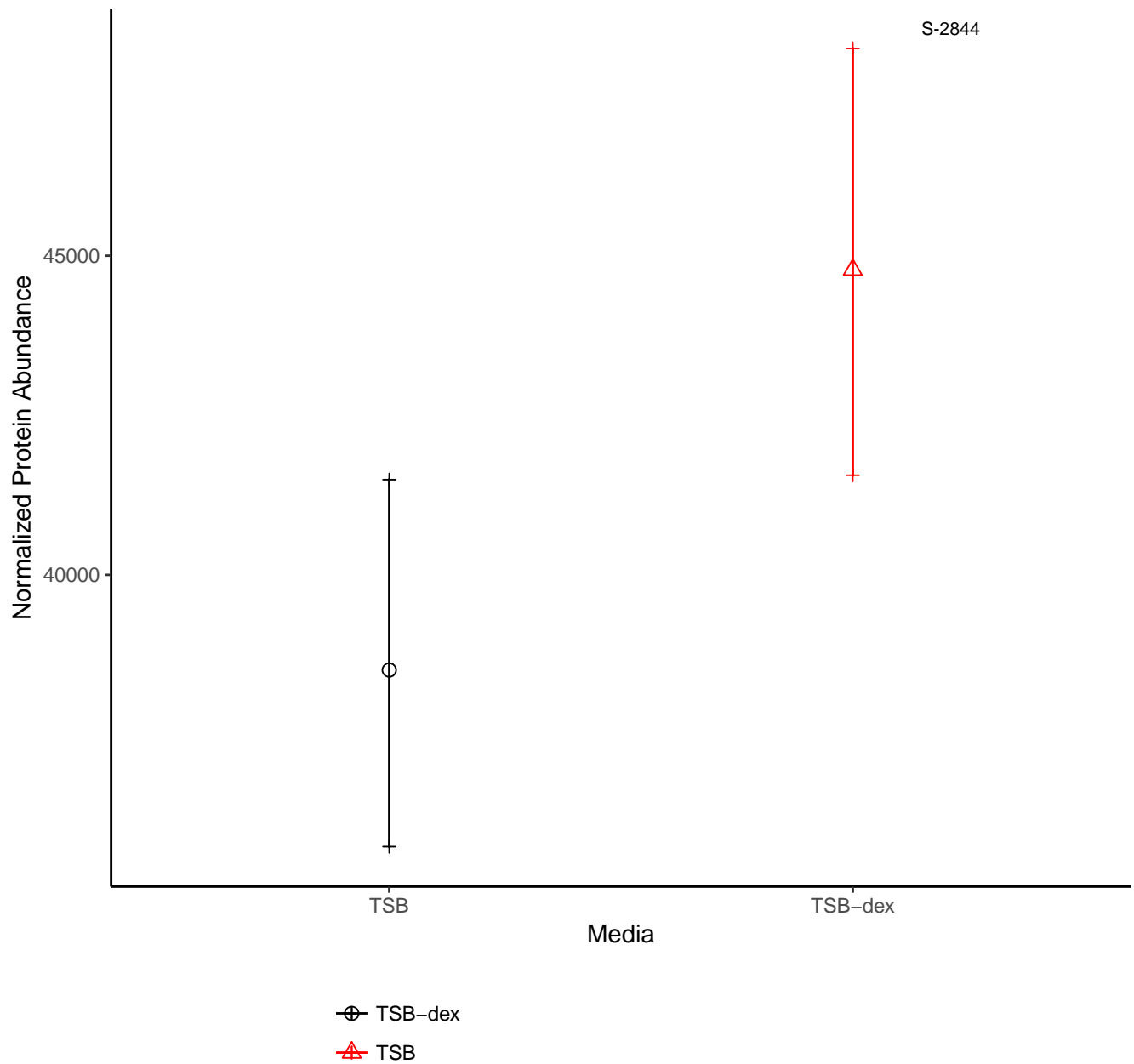
# RL6\_STAAM



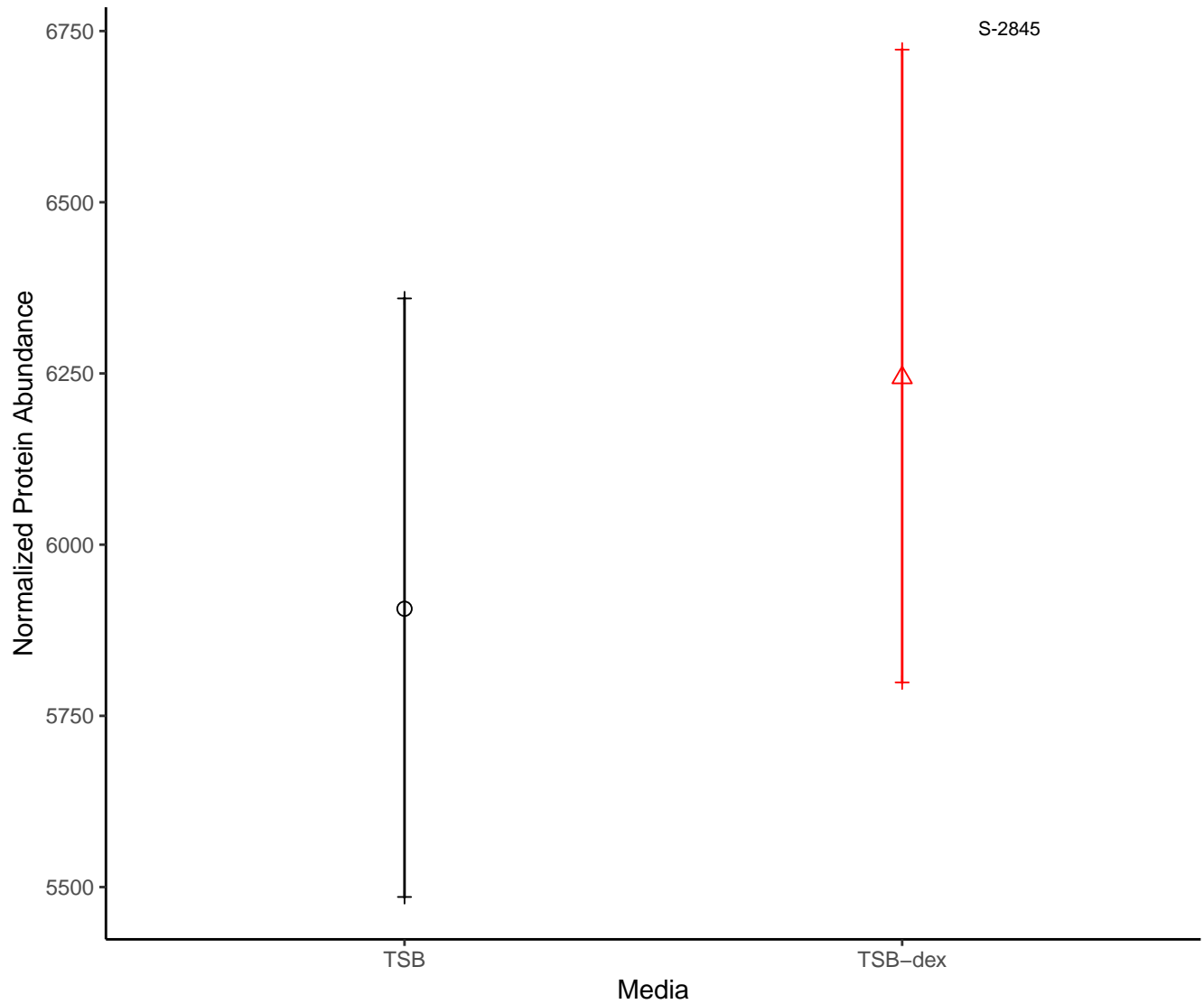
⊖ TSB-dex

△ TSB

# RL7\_STAAM



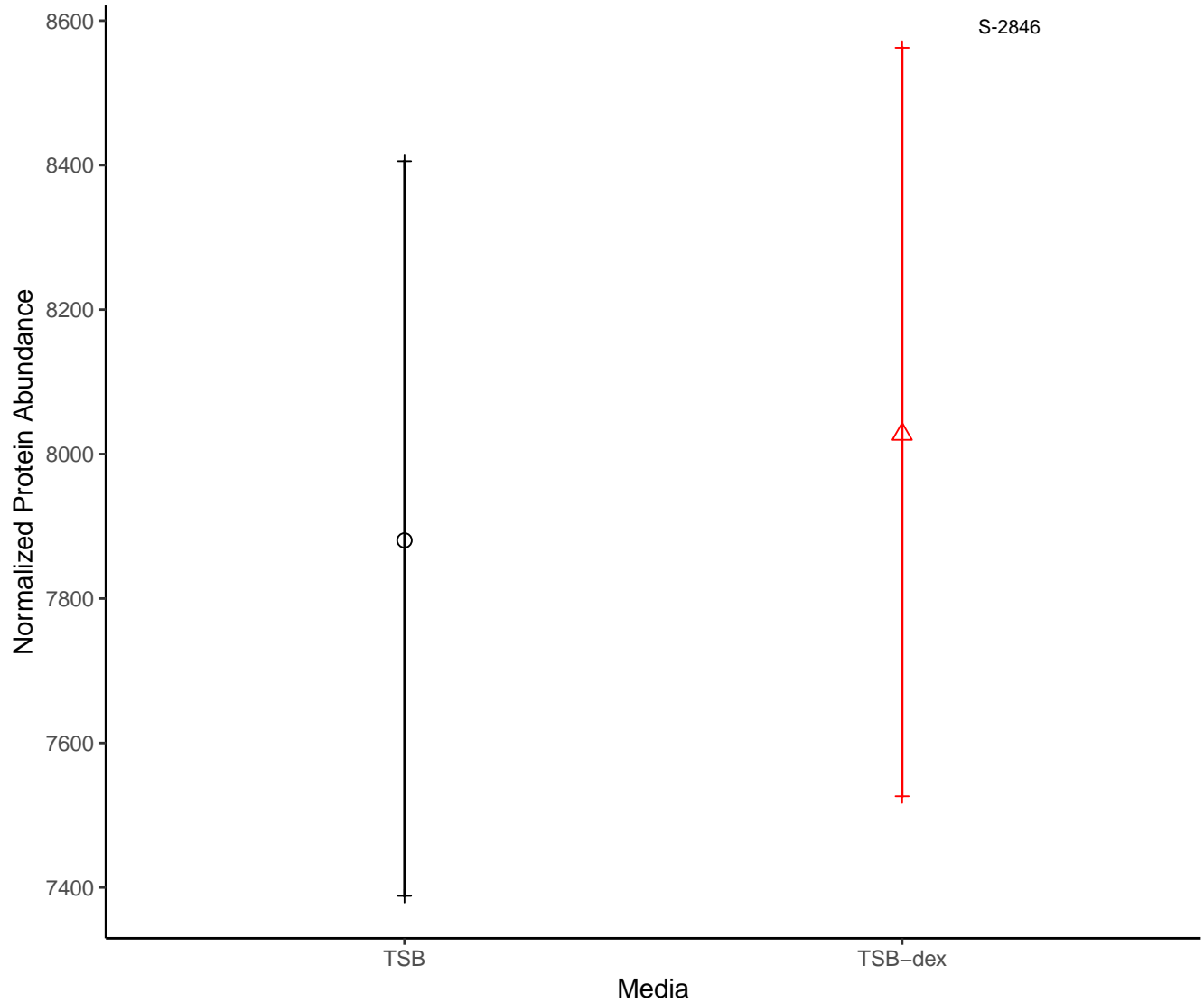
# RL9\_STAAM



⊕ TSB-dex

△ TSB

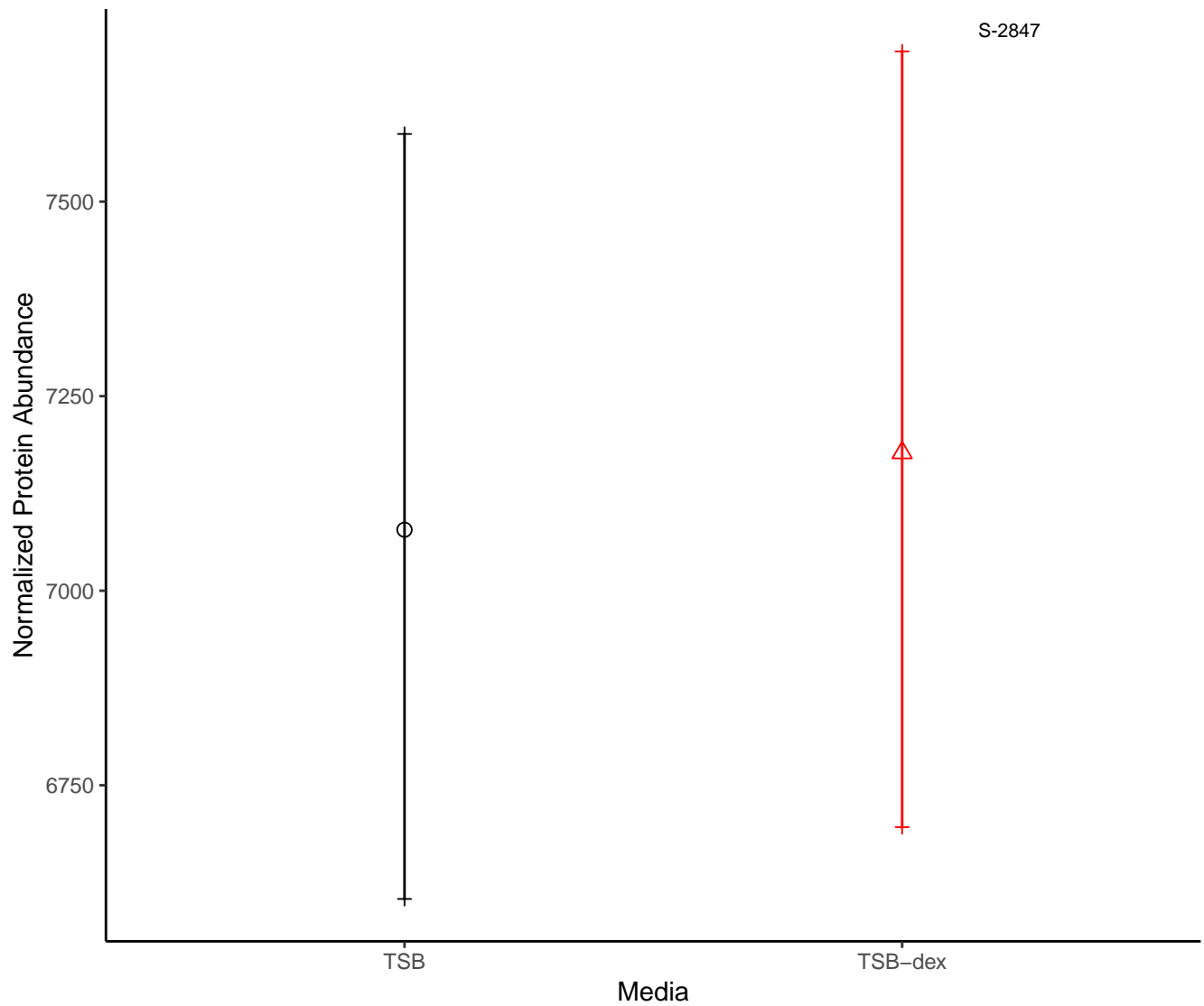
# RNJ1\_STAAM



⊕ TSB-dex

△ TSB

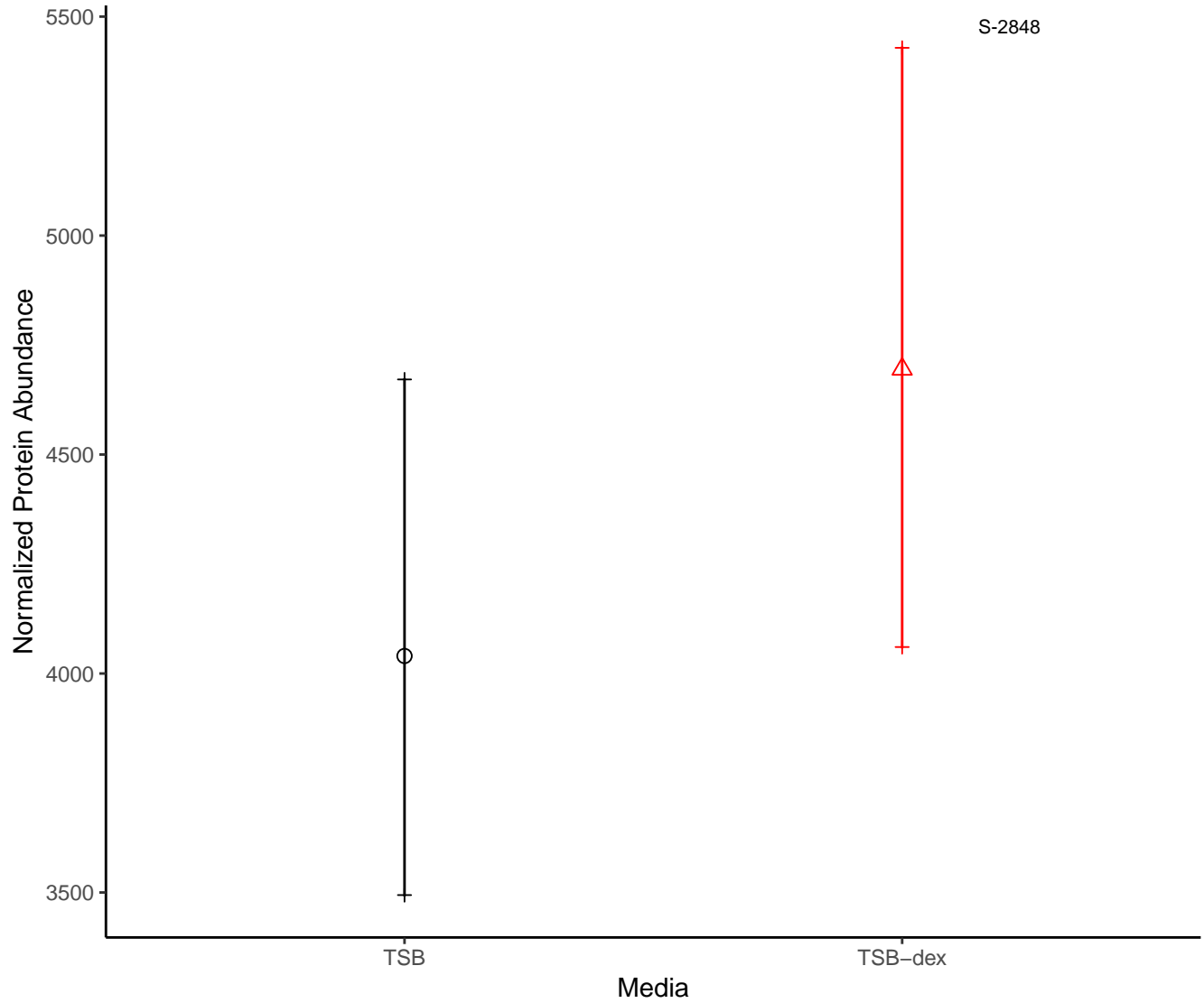
# RNJ2\_STAAM



⊕ TSB-dex

△ TSB

# RNY\_STAAM



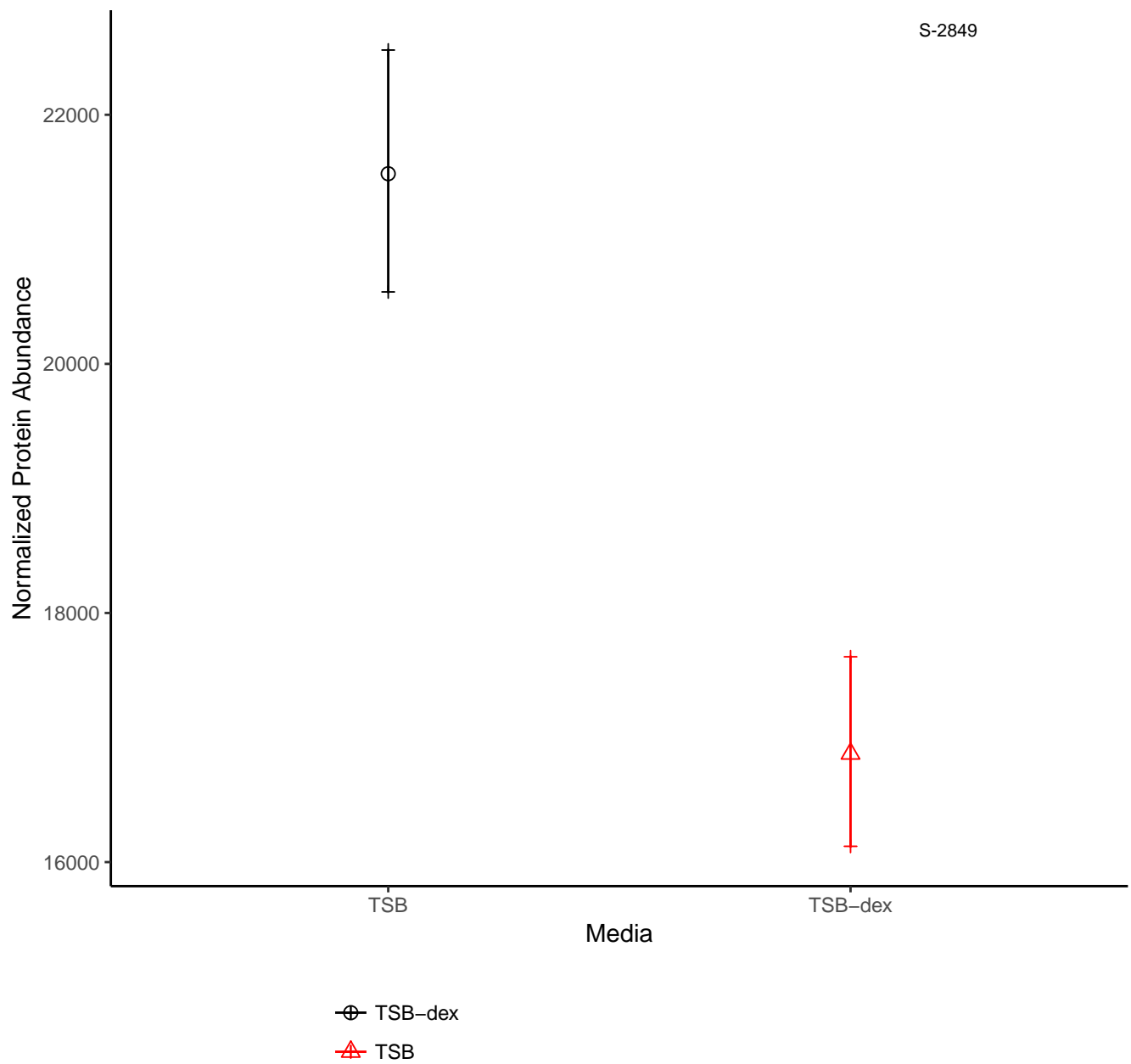
⊕ TSB-dex

△ TSB

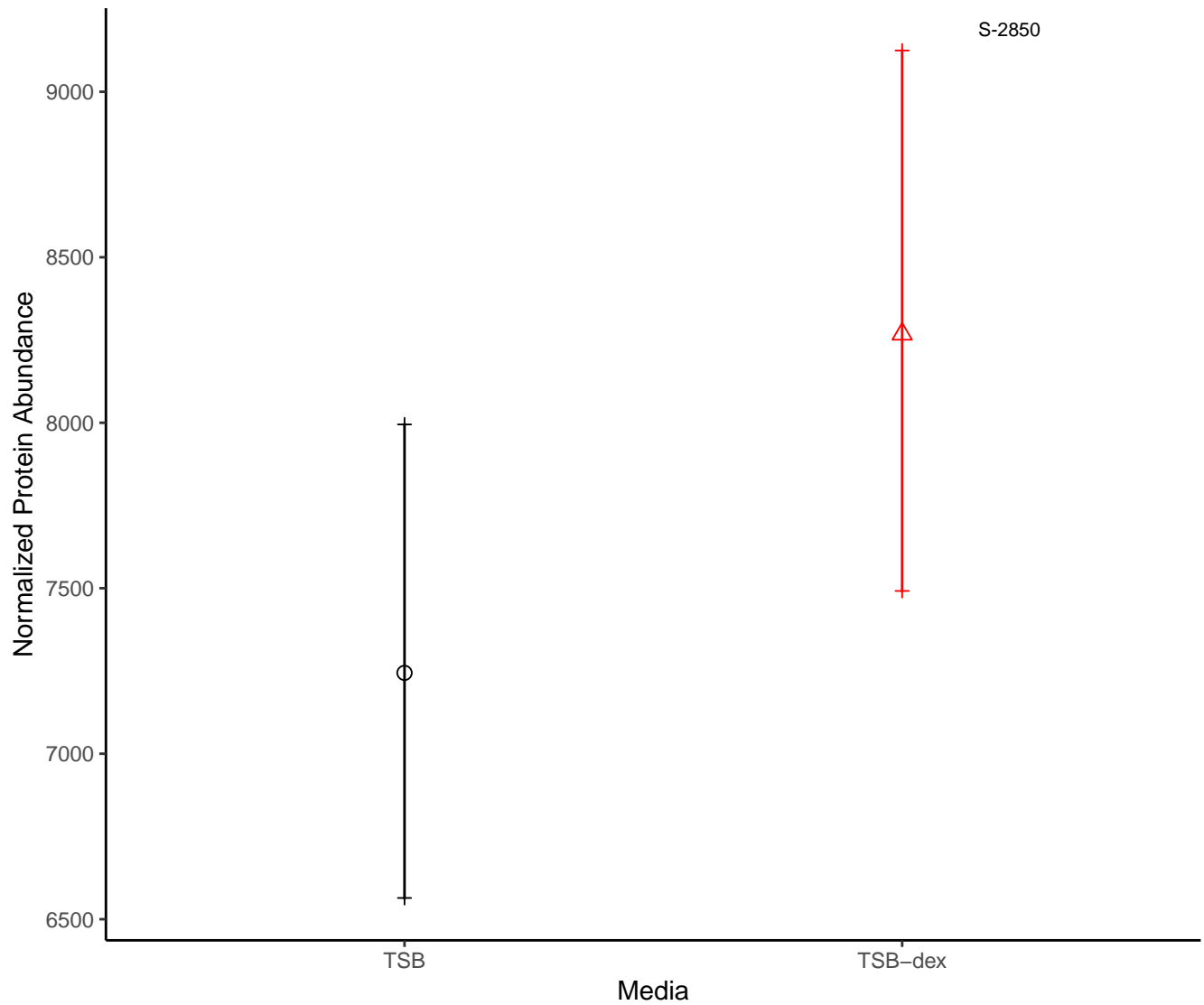


# ROCA\_STAAM

S-2849



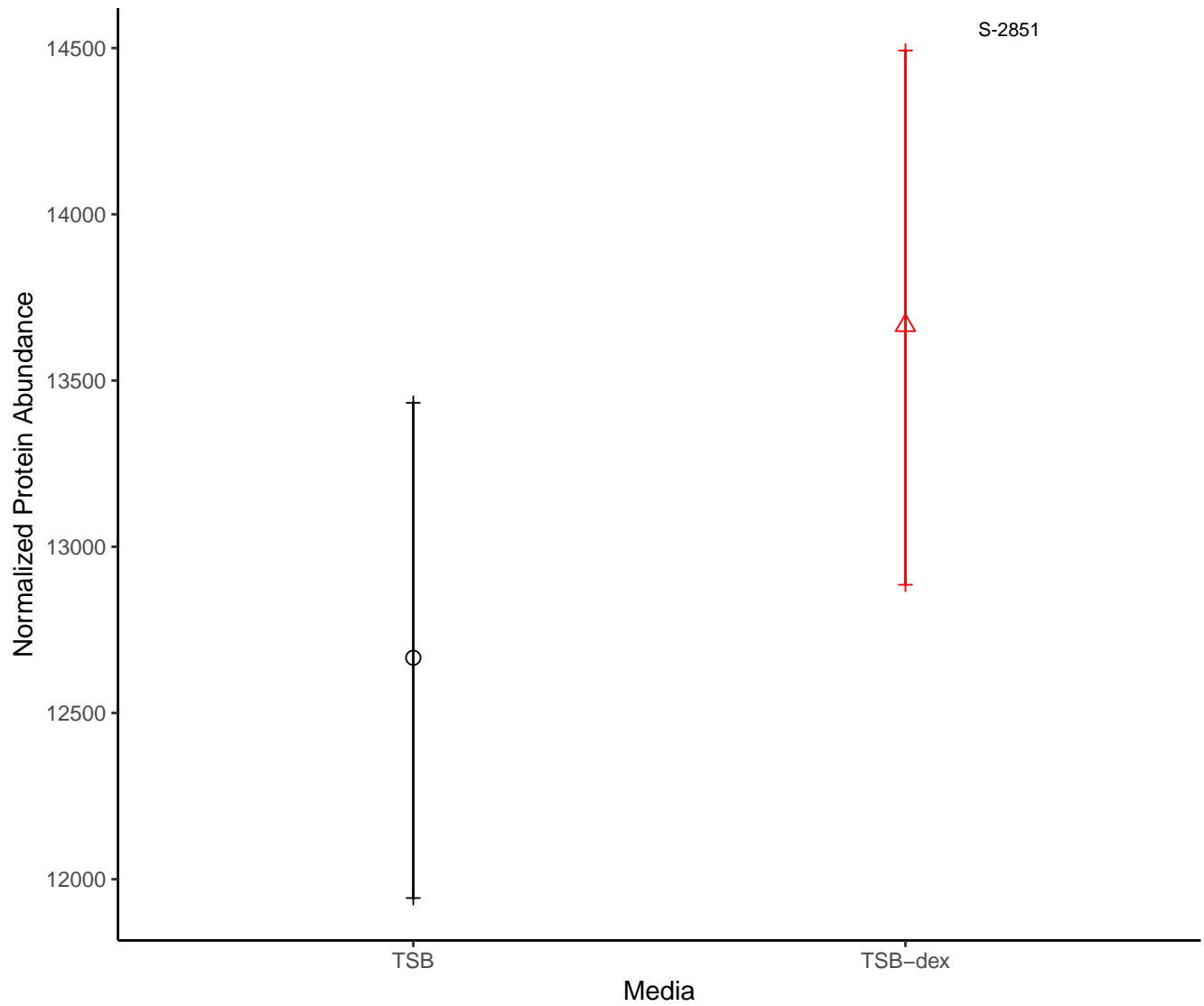
# ROT\_STAAM



⊕ TSB-dex

△ TSB

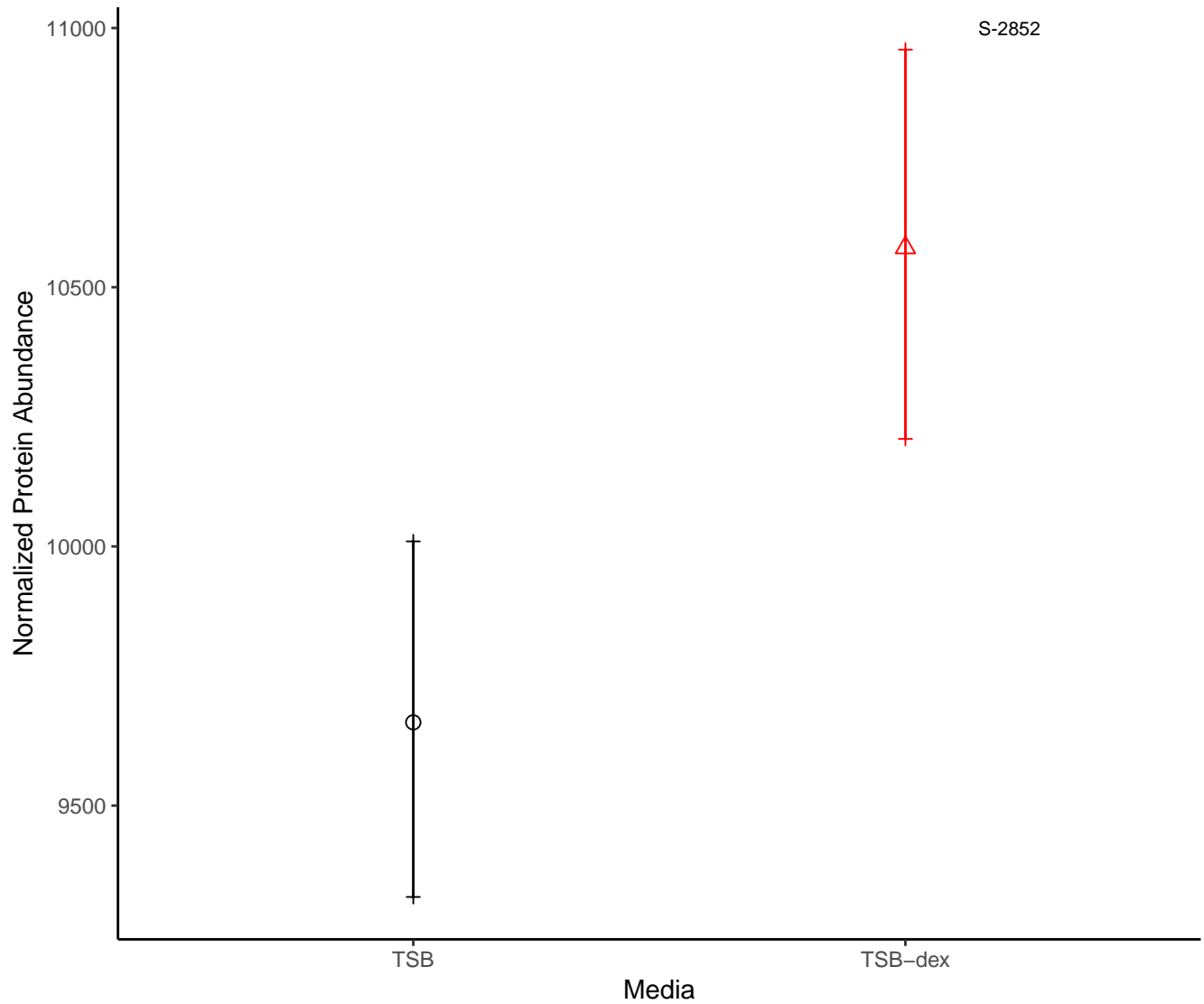
# RPOA\_STAAM



⊕ TSB-dex

△ TSB

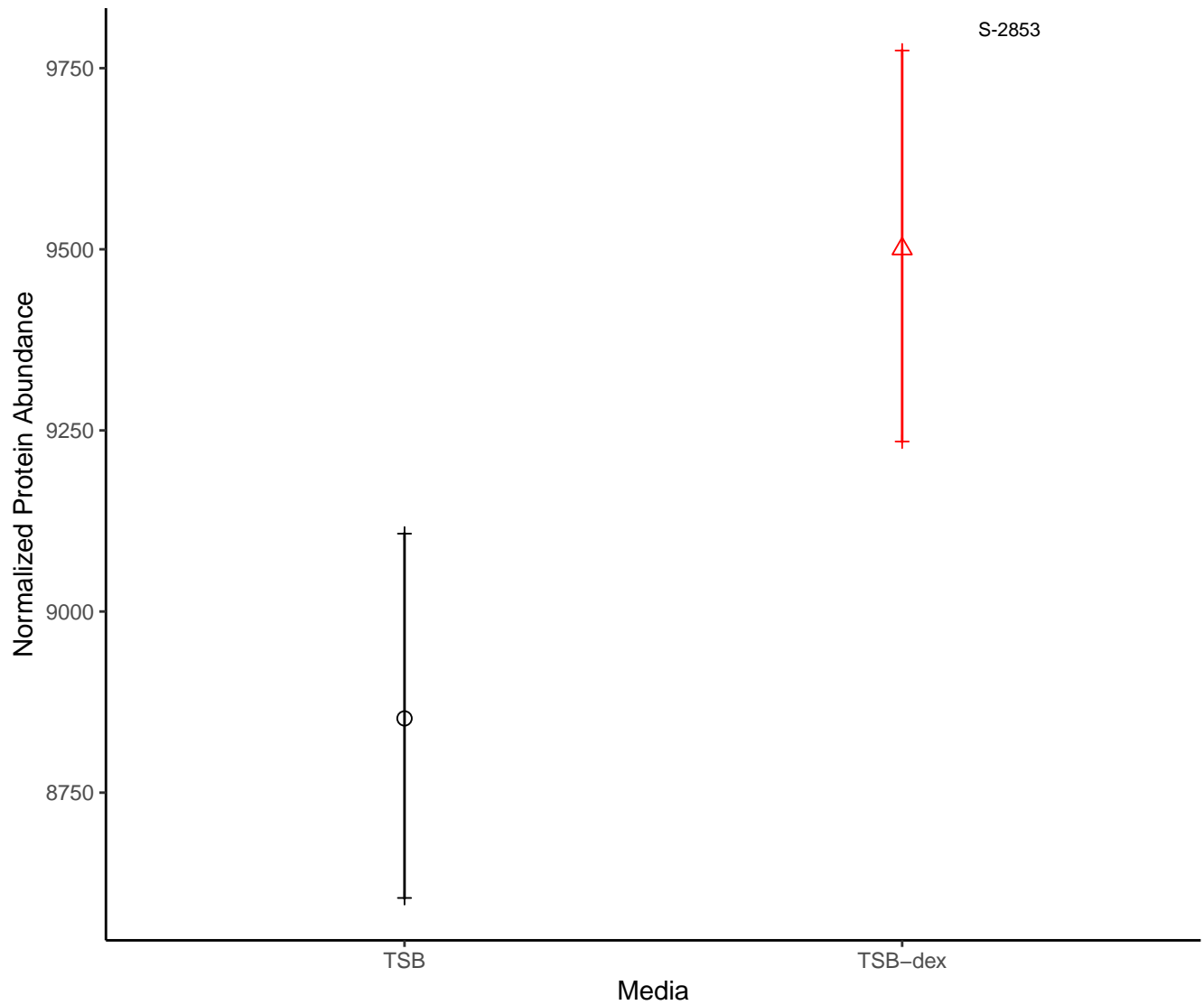
# RPOB\_STAAM



⊕ TSB-dex

△ TSB

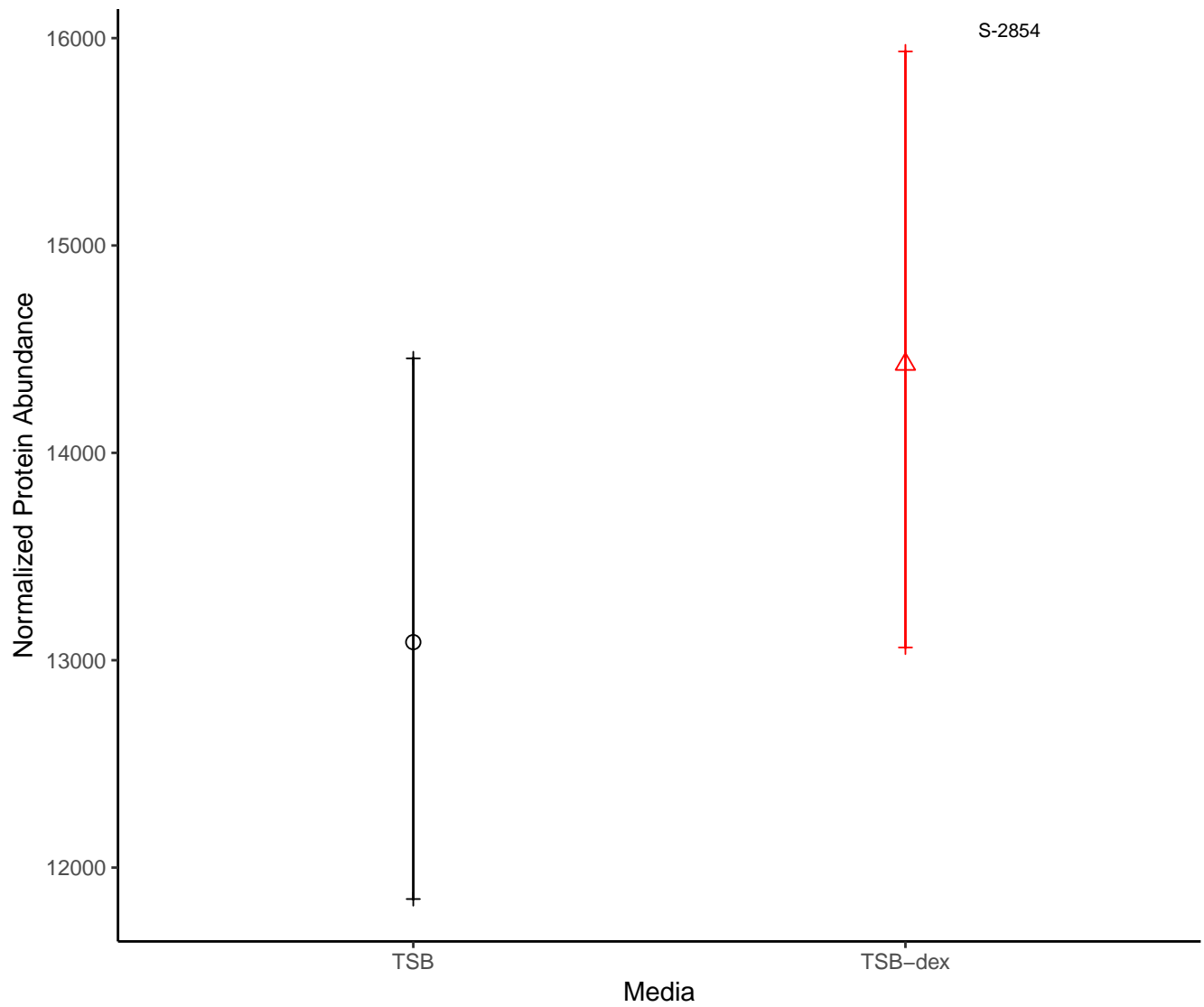
# RPOC\_STAAM



⊕ TSB-dex

△ TSB

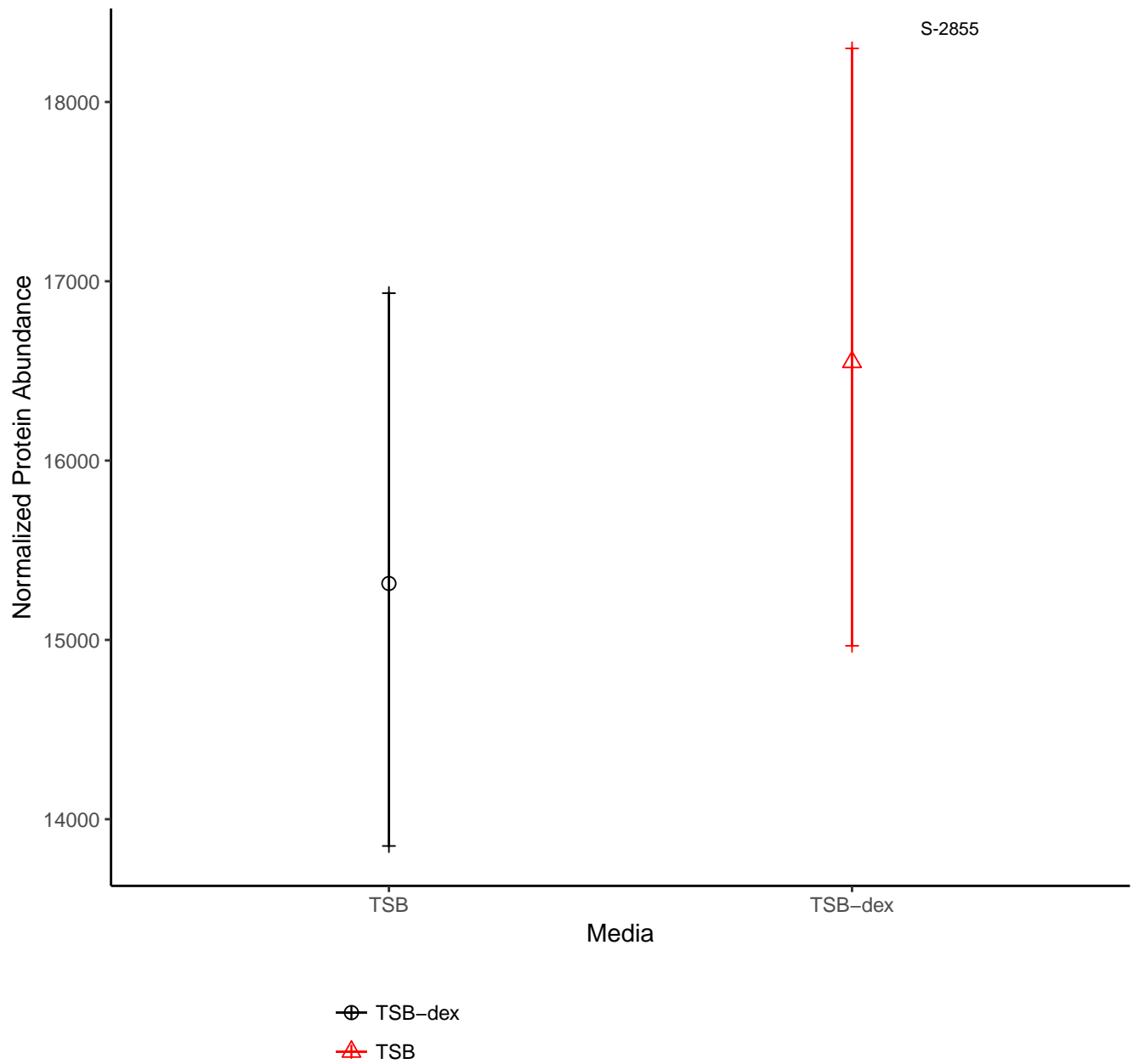
# RPOE\_STAAM



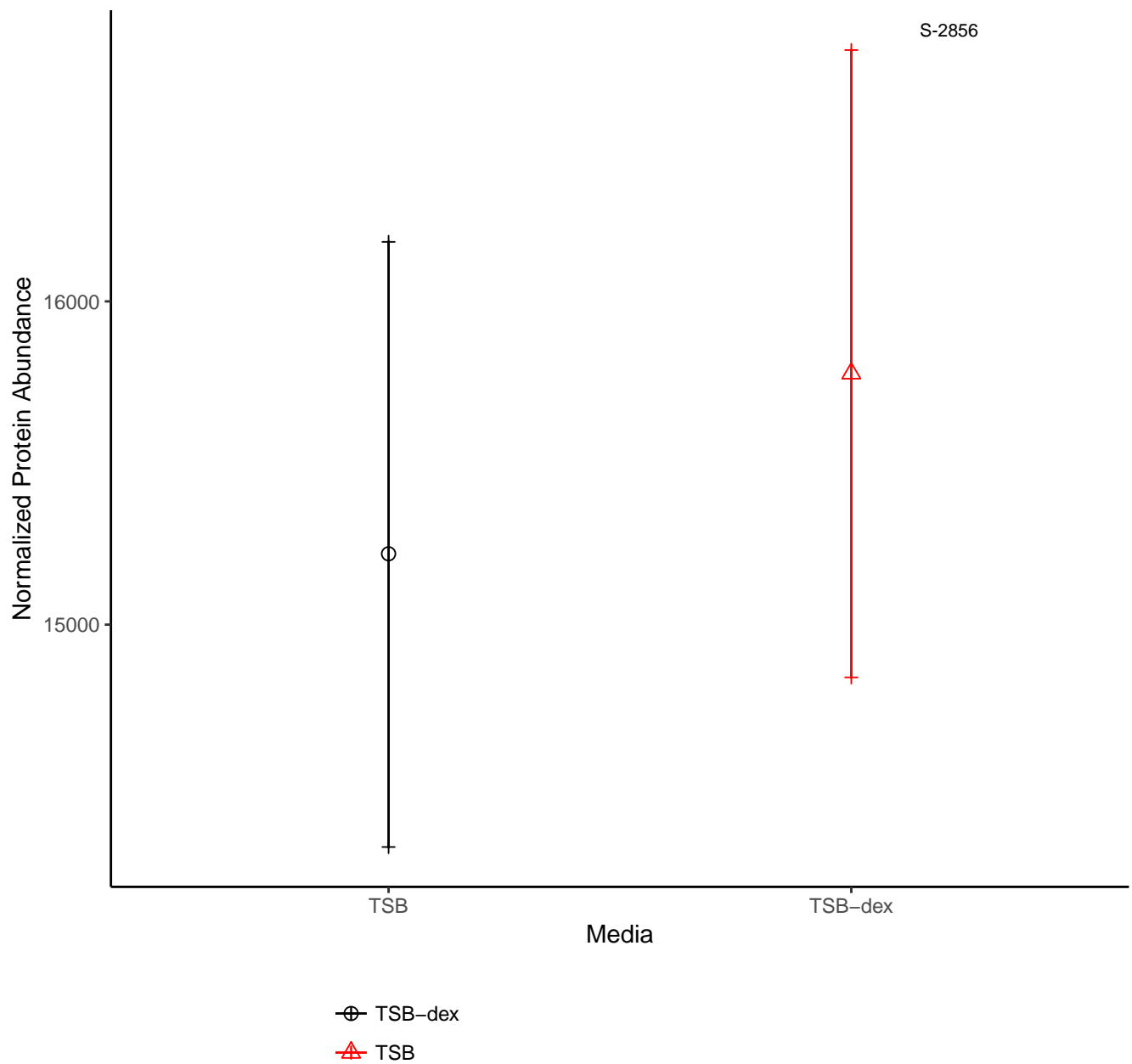
⊕ TSB-dex

△ TSB

# RPOZ\_STAAM

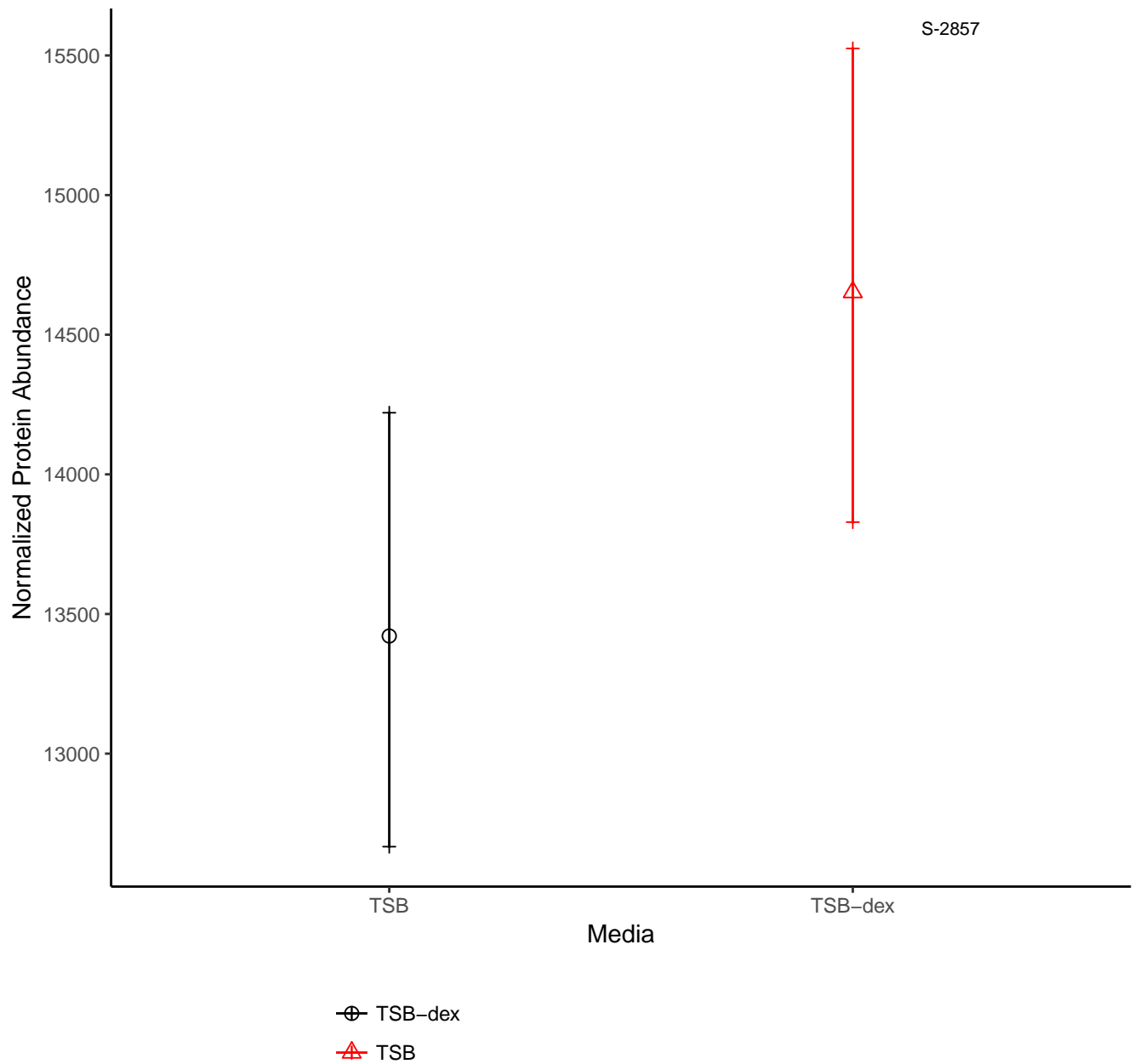


# RRF\_STAAM

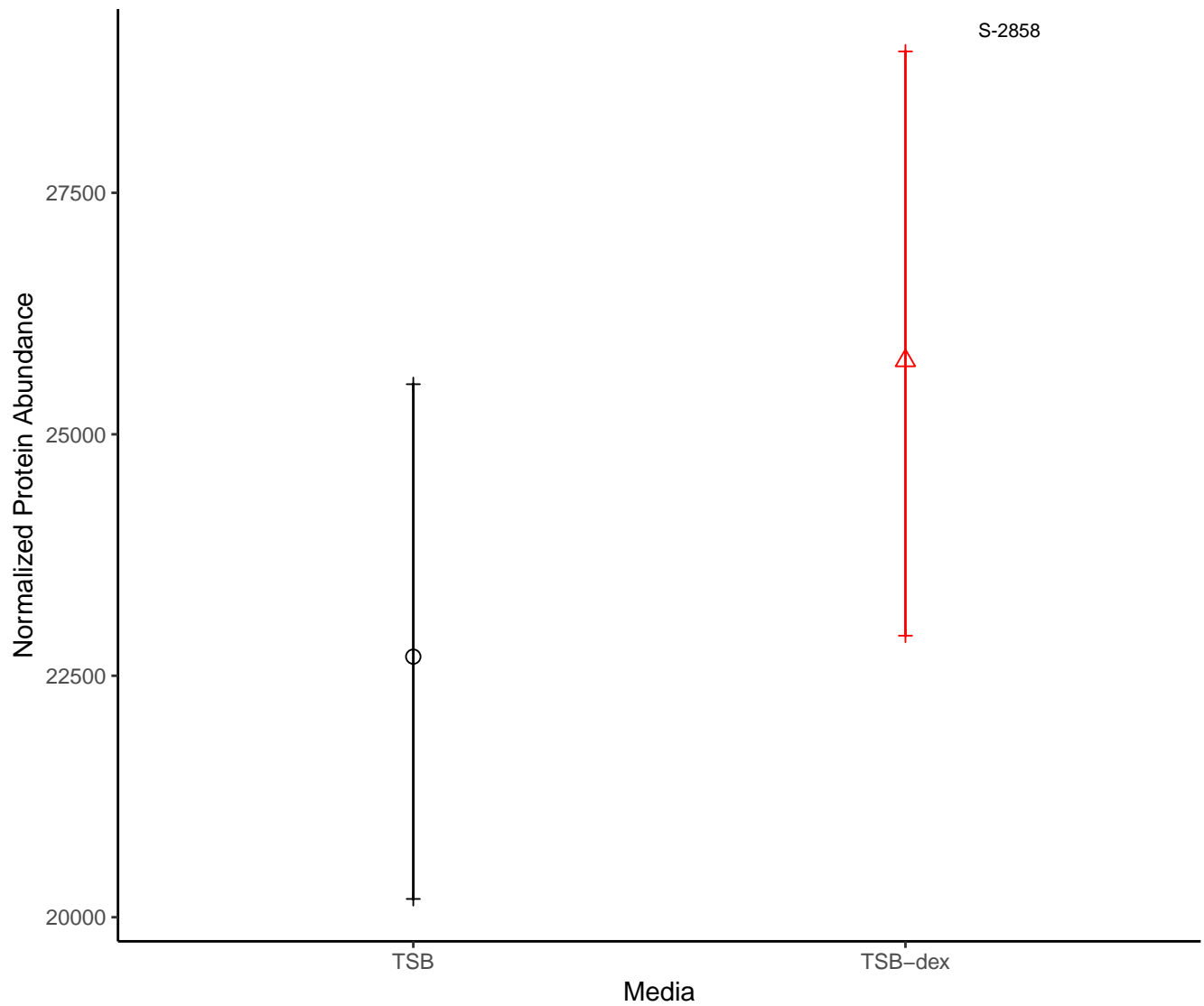




# RS1\_STAAM



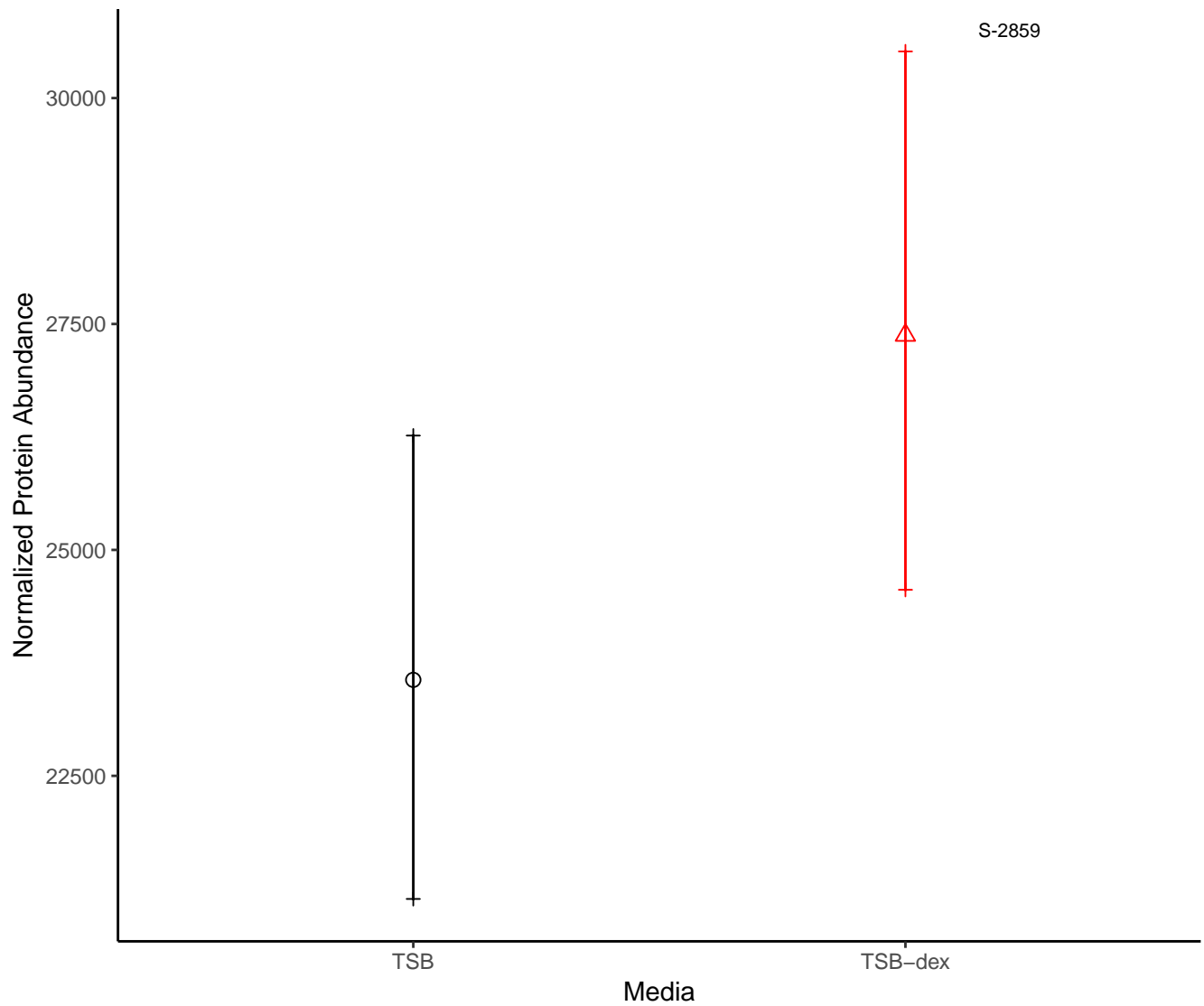
# RS10\_STAAM



⊕ TSB-dex

△ TSB

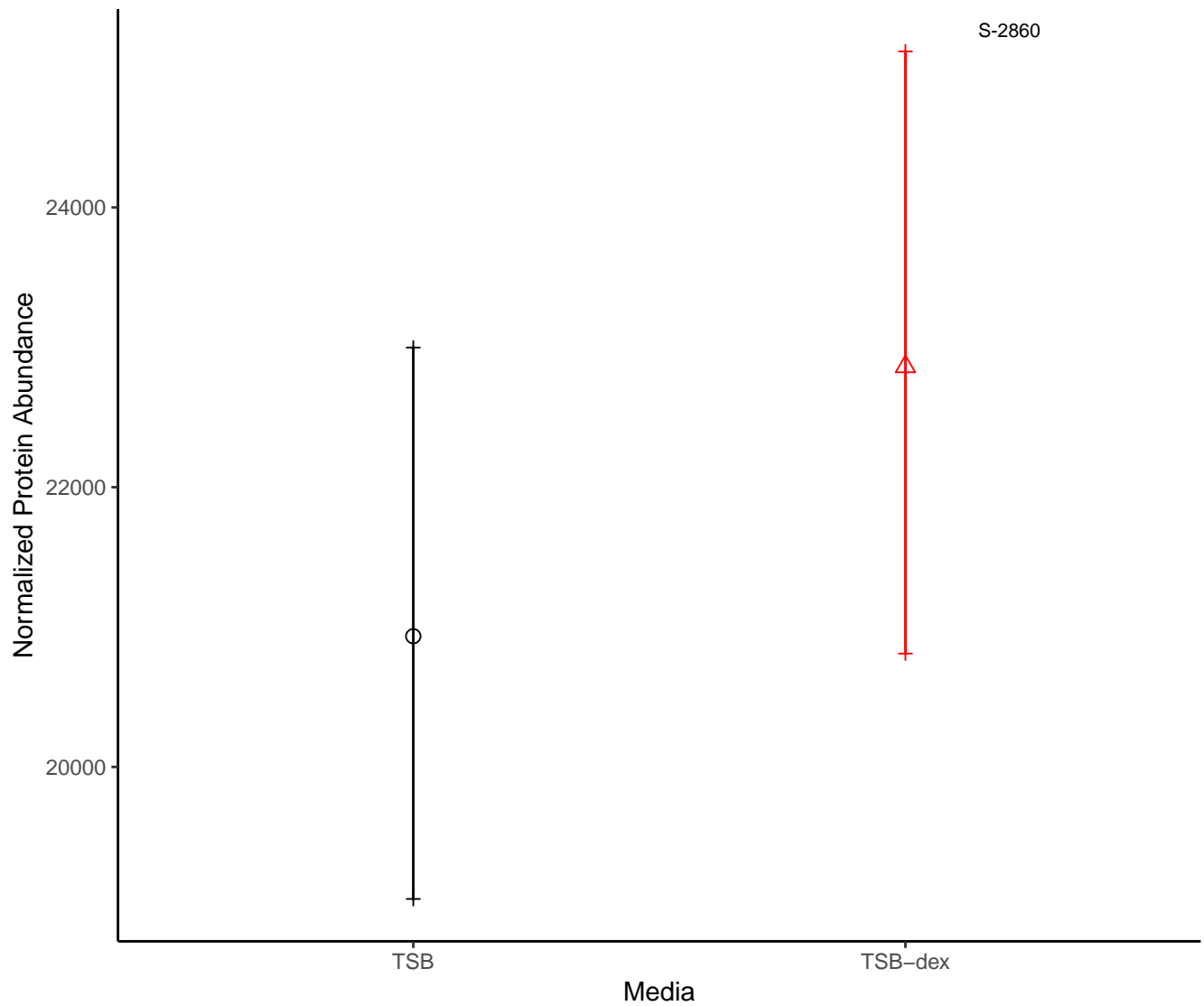
# RS11\_STAAM



⊕ TSB-dex

△ TSB

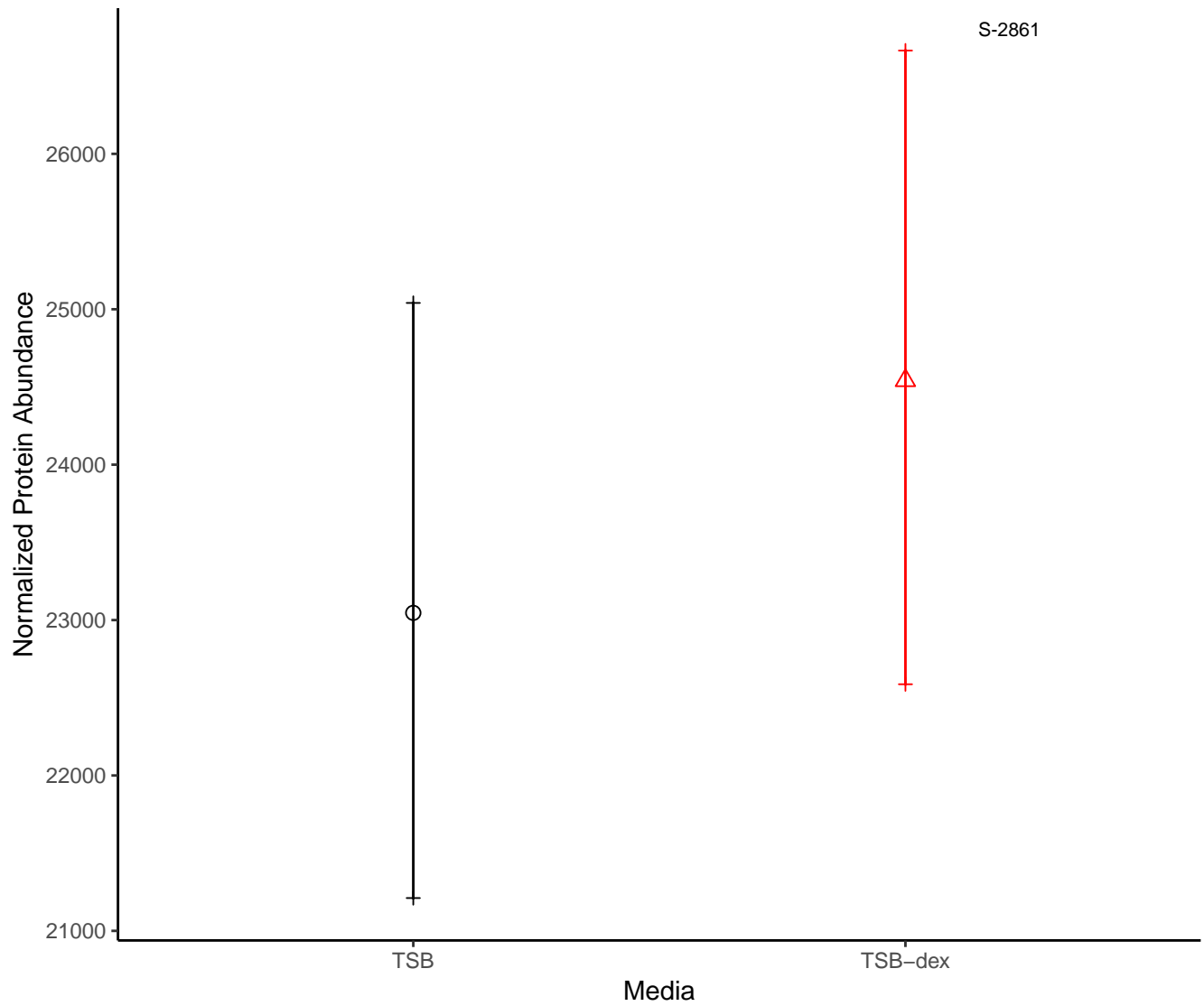
# RS12\_STAAM



⊕ TSB-dex

△ TSB

# RS13\_STAAM

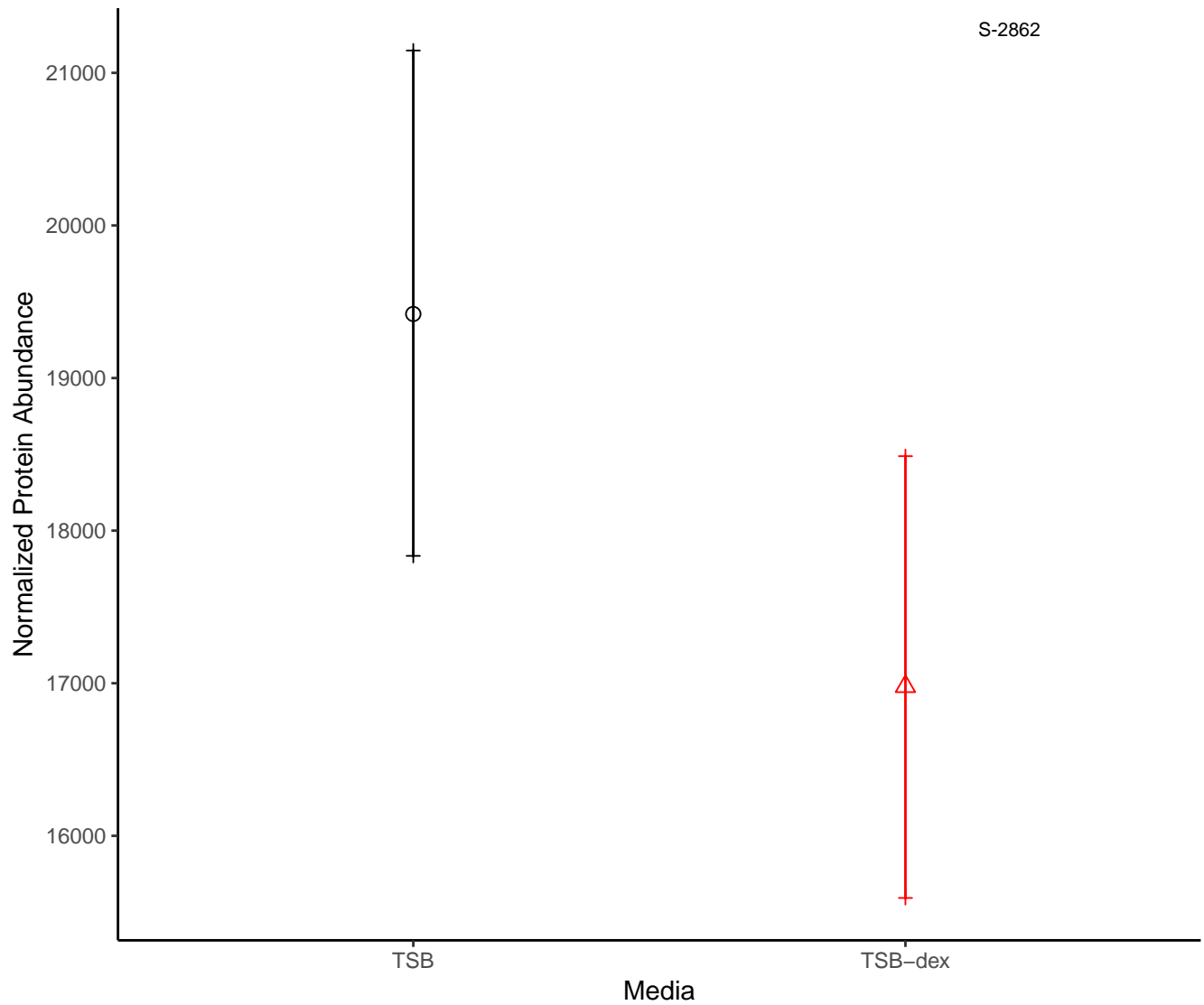


⊕ TSB-dex

△ TSB

# RS15\_STAAM

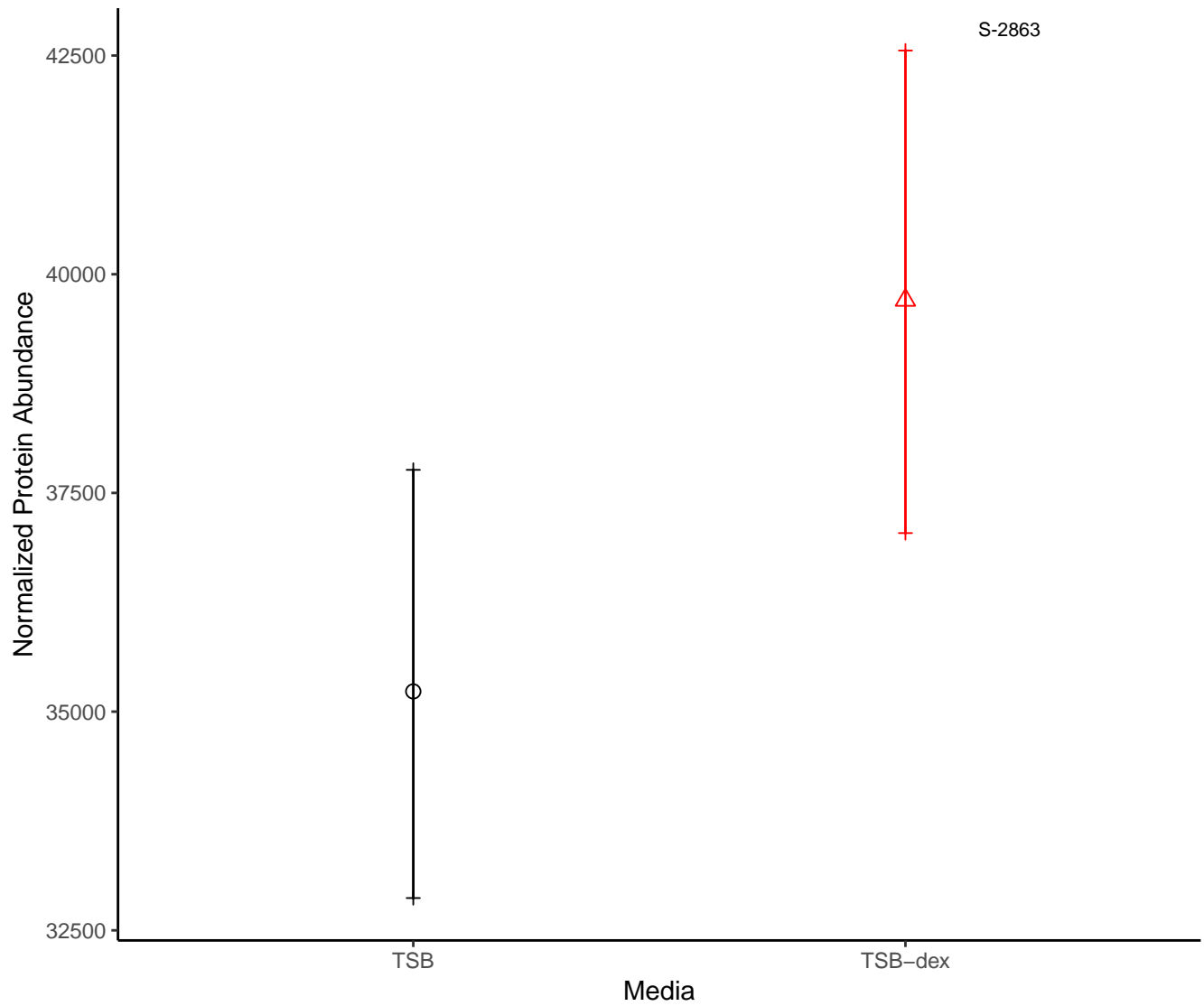
S-2862



⊖ TSB-dex

△ TSB

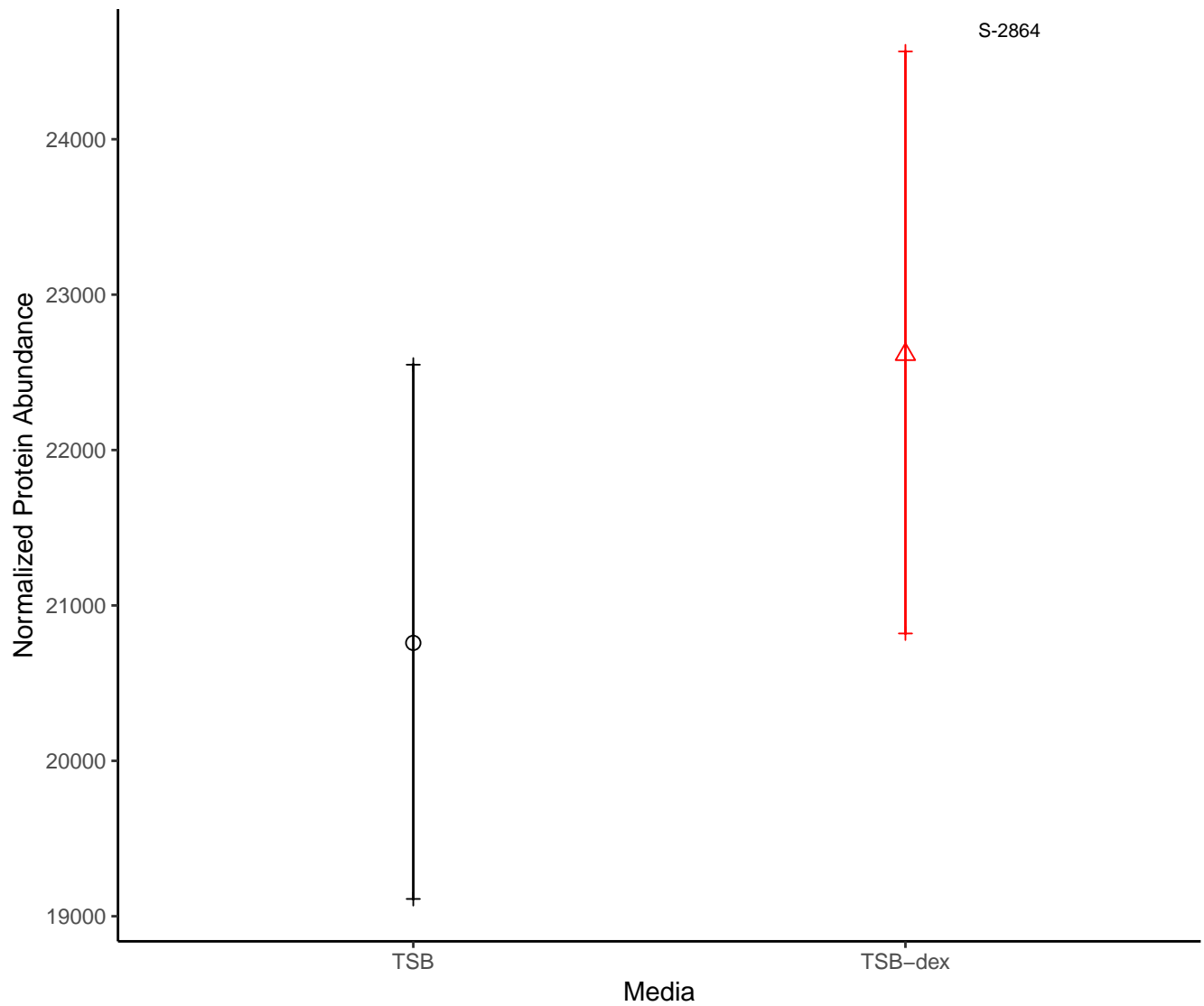
# RS16\_STAAM



⊕ TSB-dex

△ TSB

# RS17\_STAAM

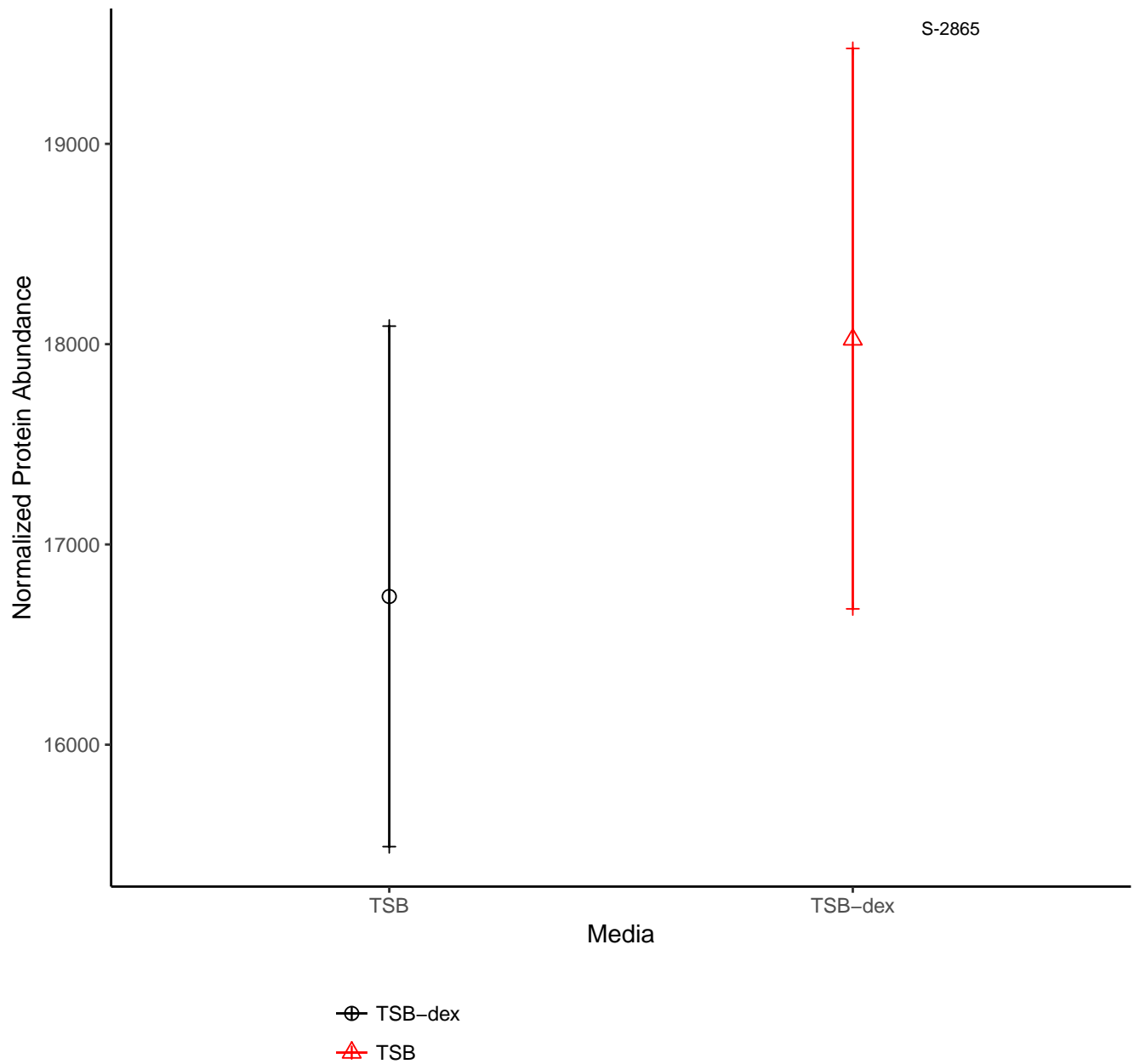


⊕ TSB-dex

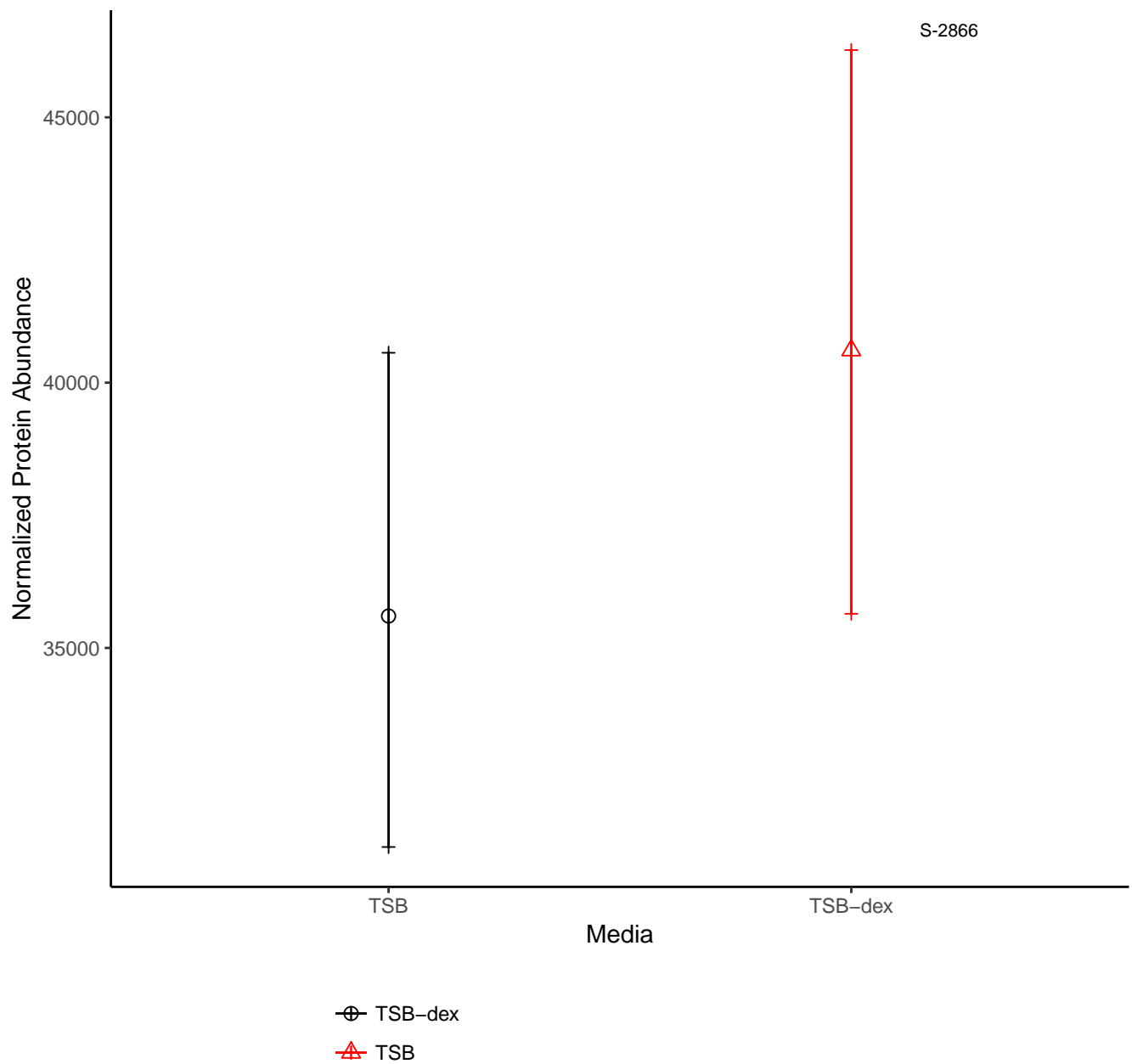
△ TSB



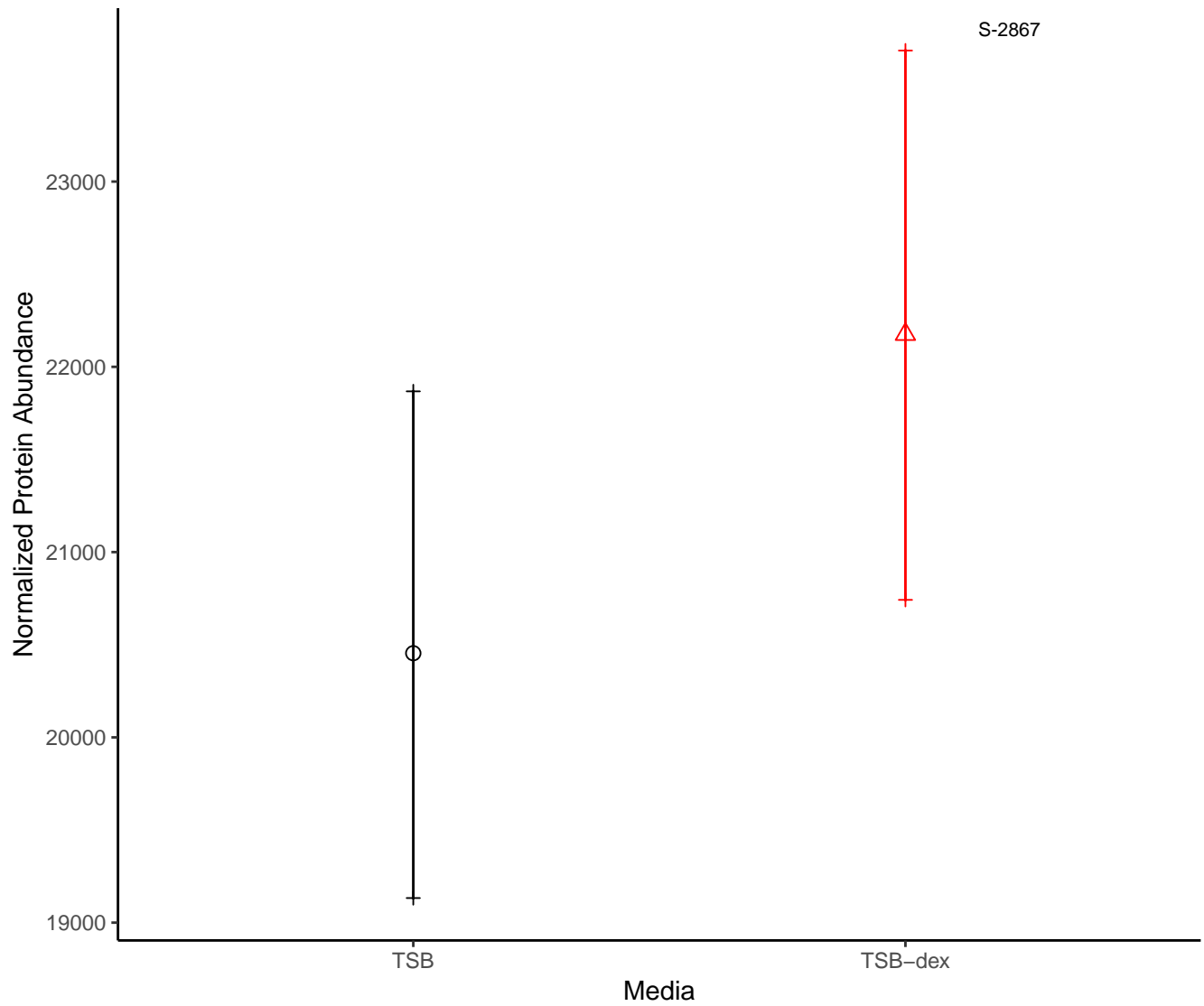
# RS18\_STAAM



# RS19\_STAAM



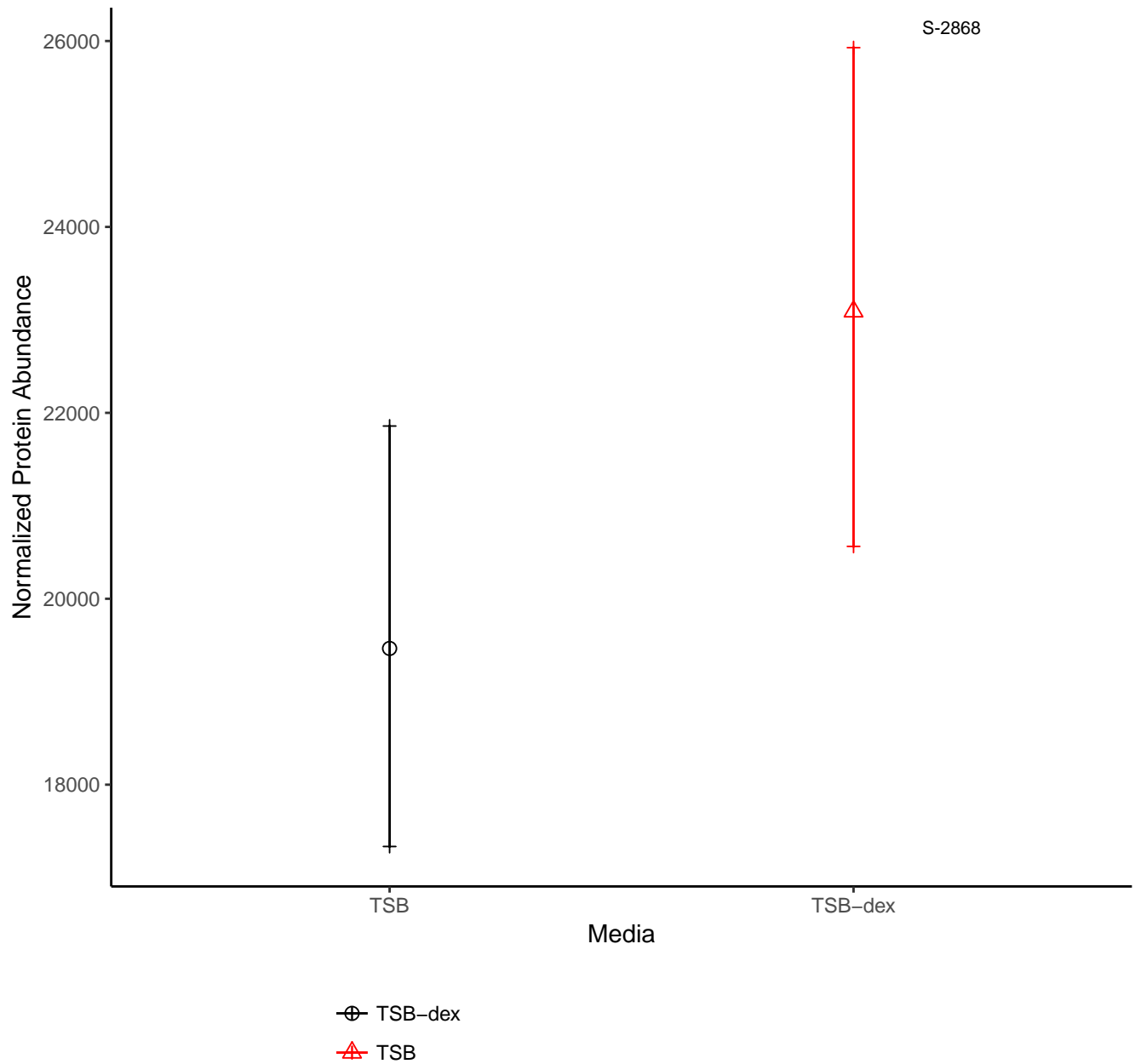
# RS2\_STAAM



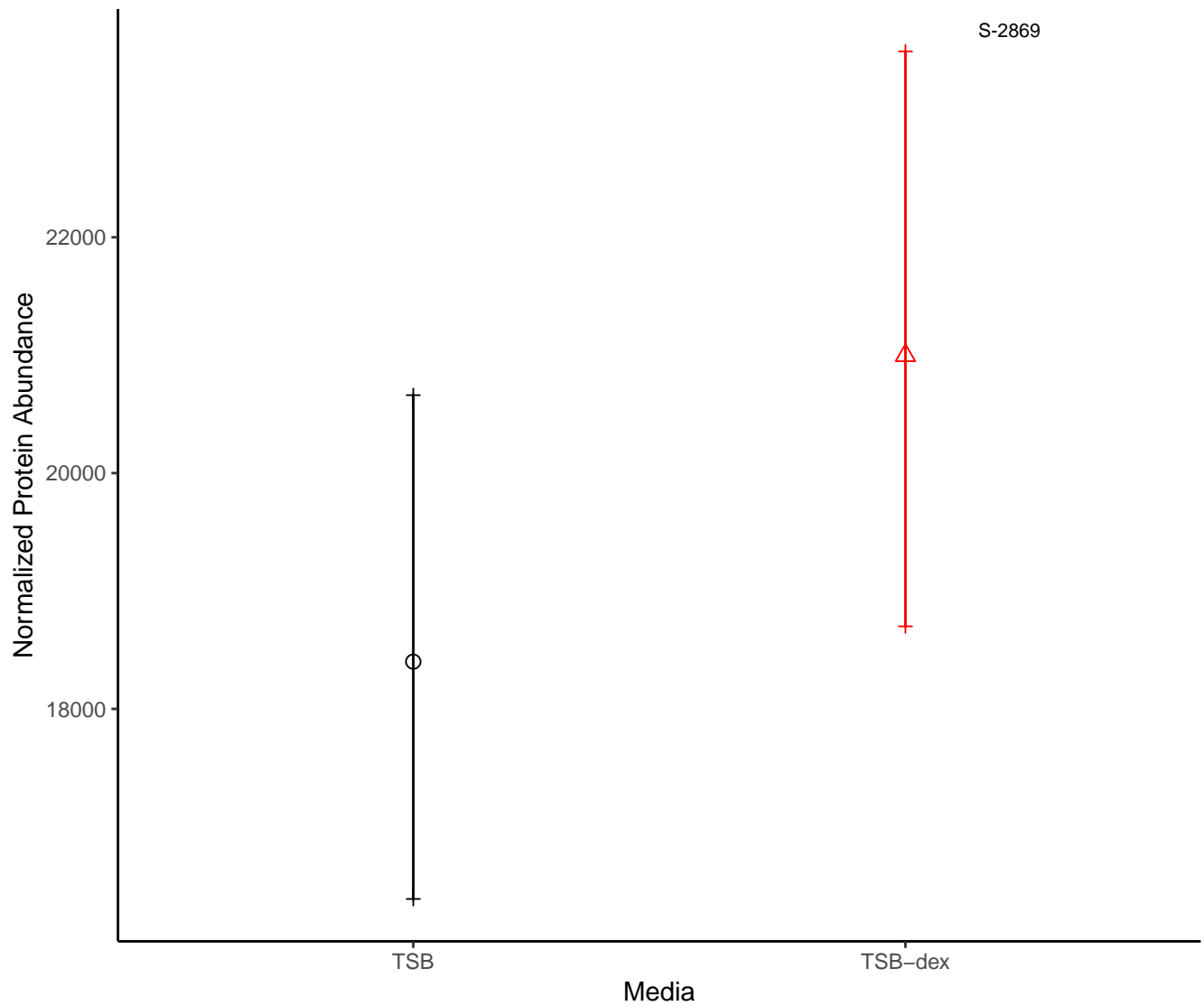
⊕ TSB-dex

△ TSB

# RS20\_STAAM



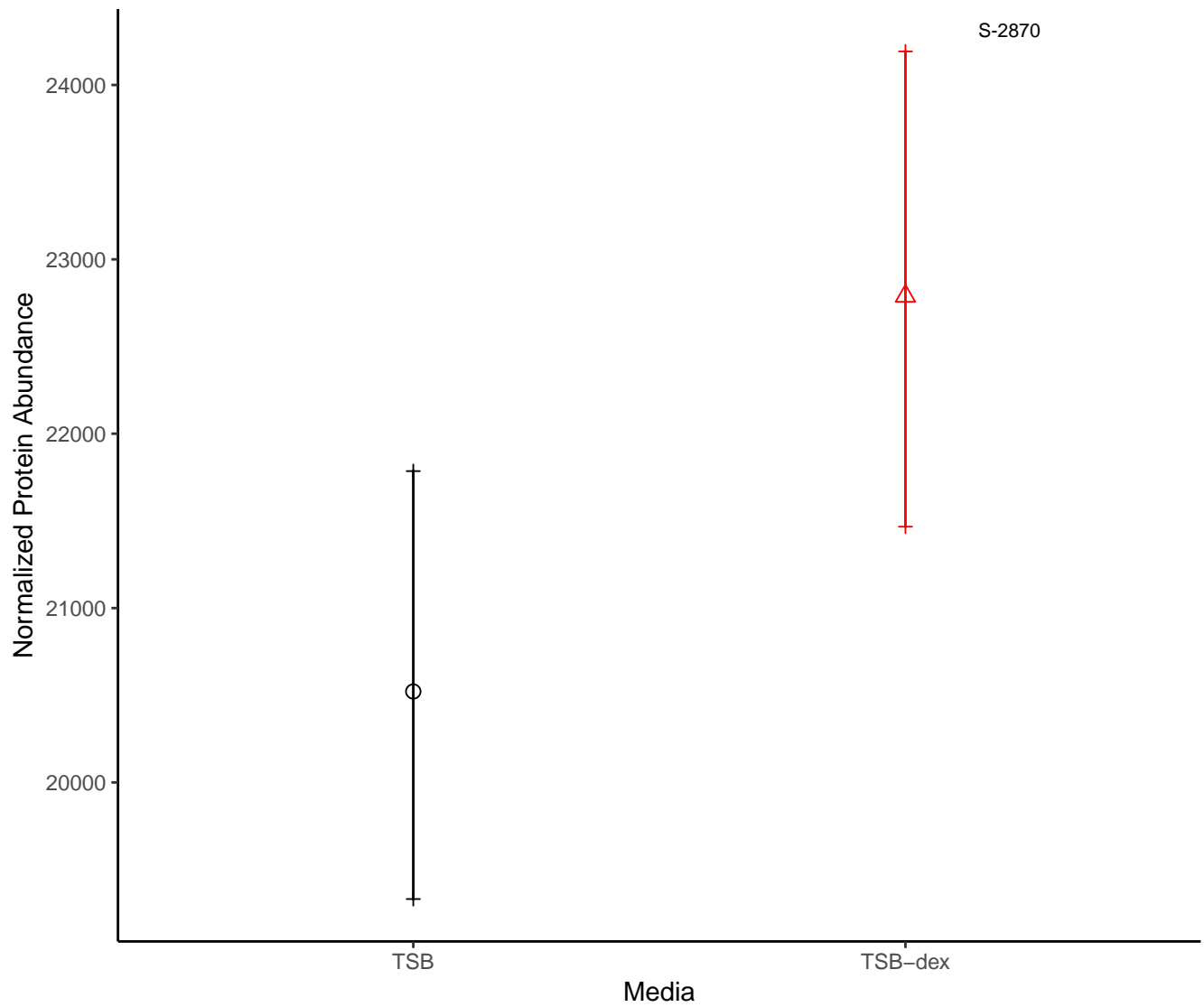
# RS21\_STAAM



● TSB-dex

▲ TSB

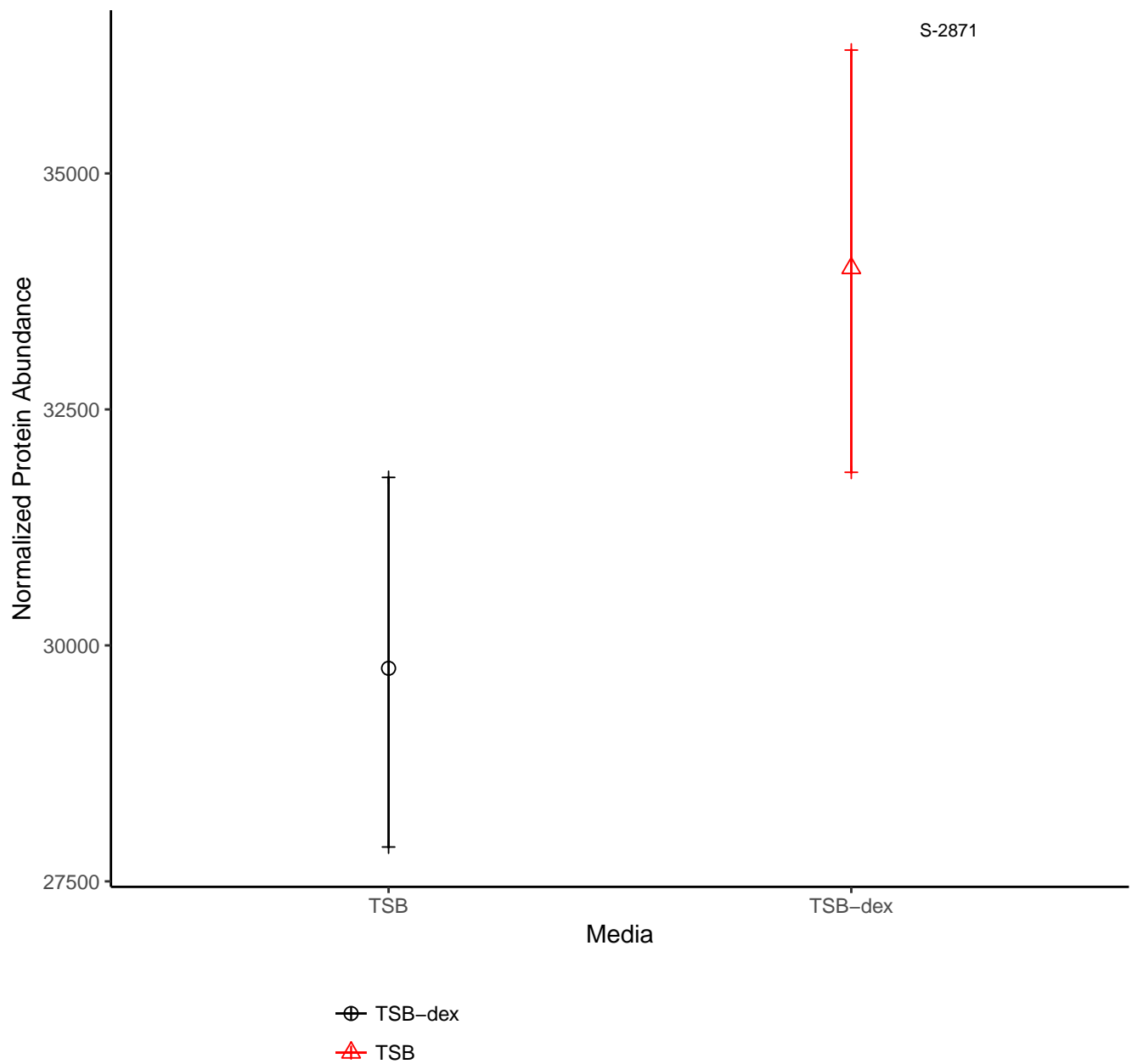
# RS3\_STAAM



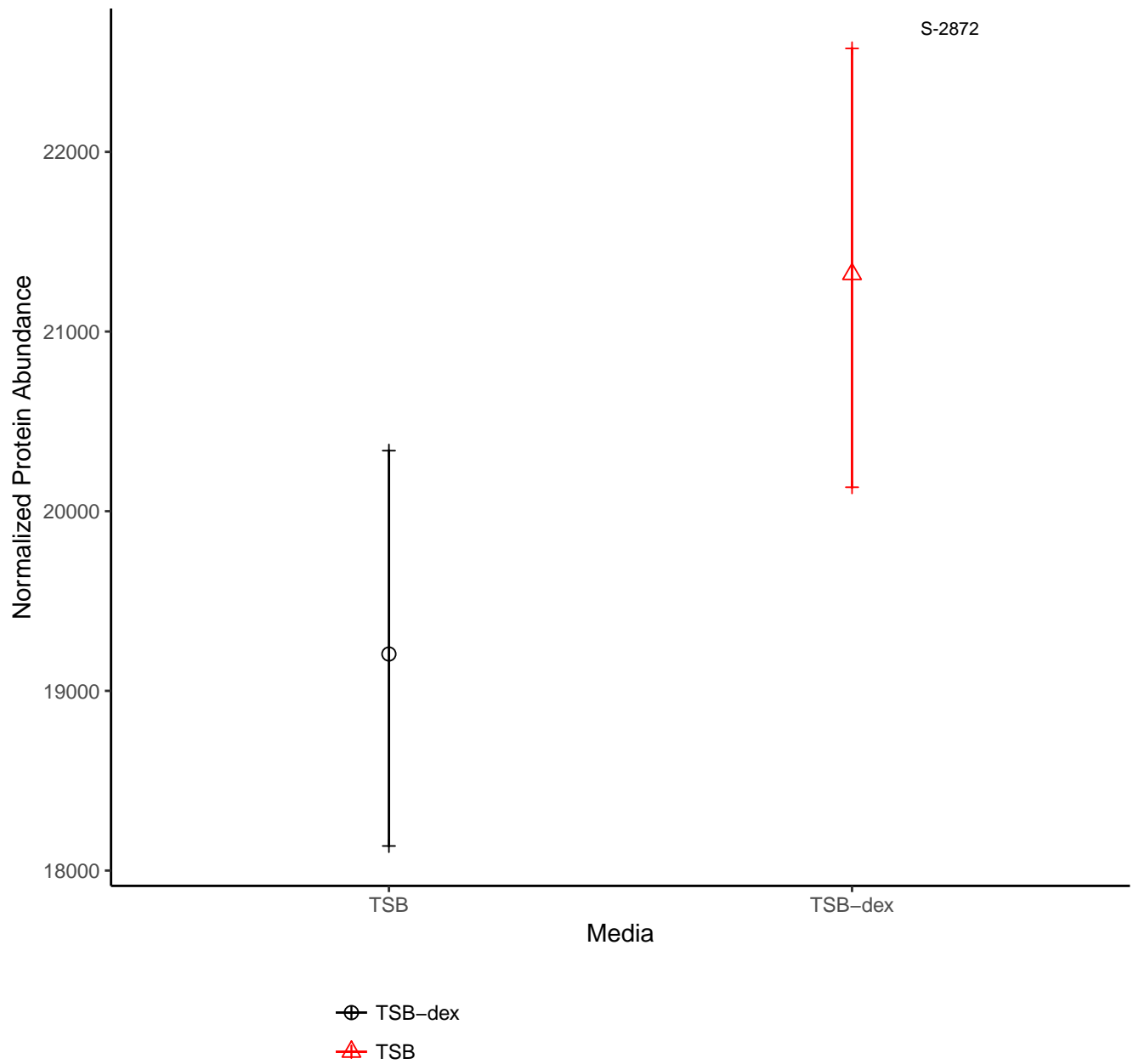
⊕ TSB-dex

△ TSB

# RS4\_STAAM

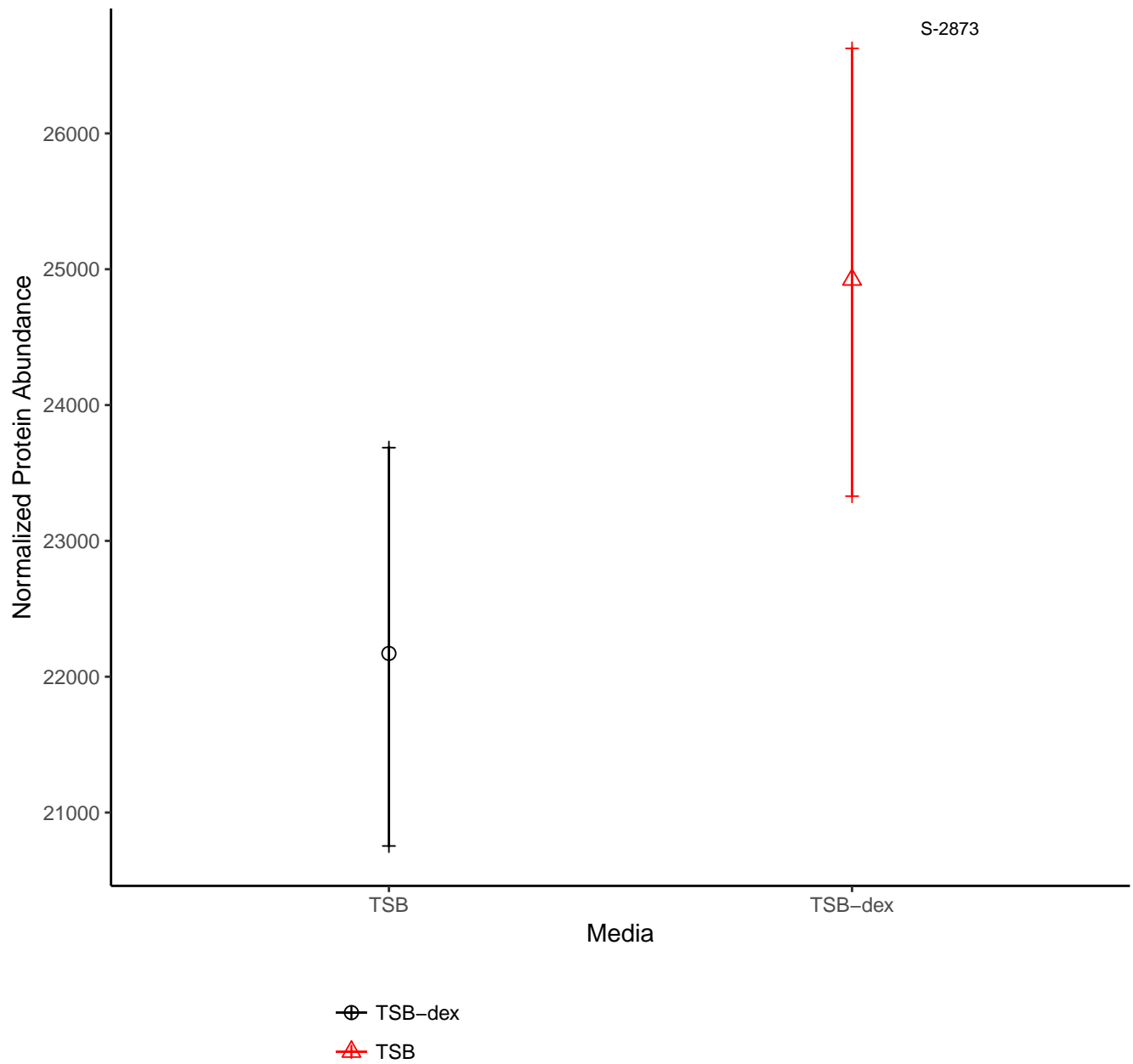


# RS5\_STAAM

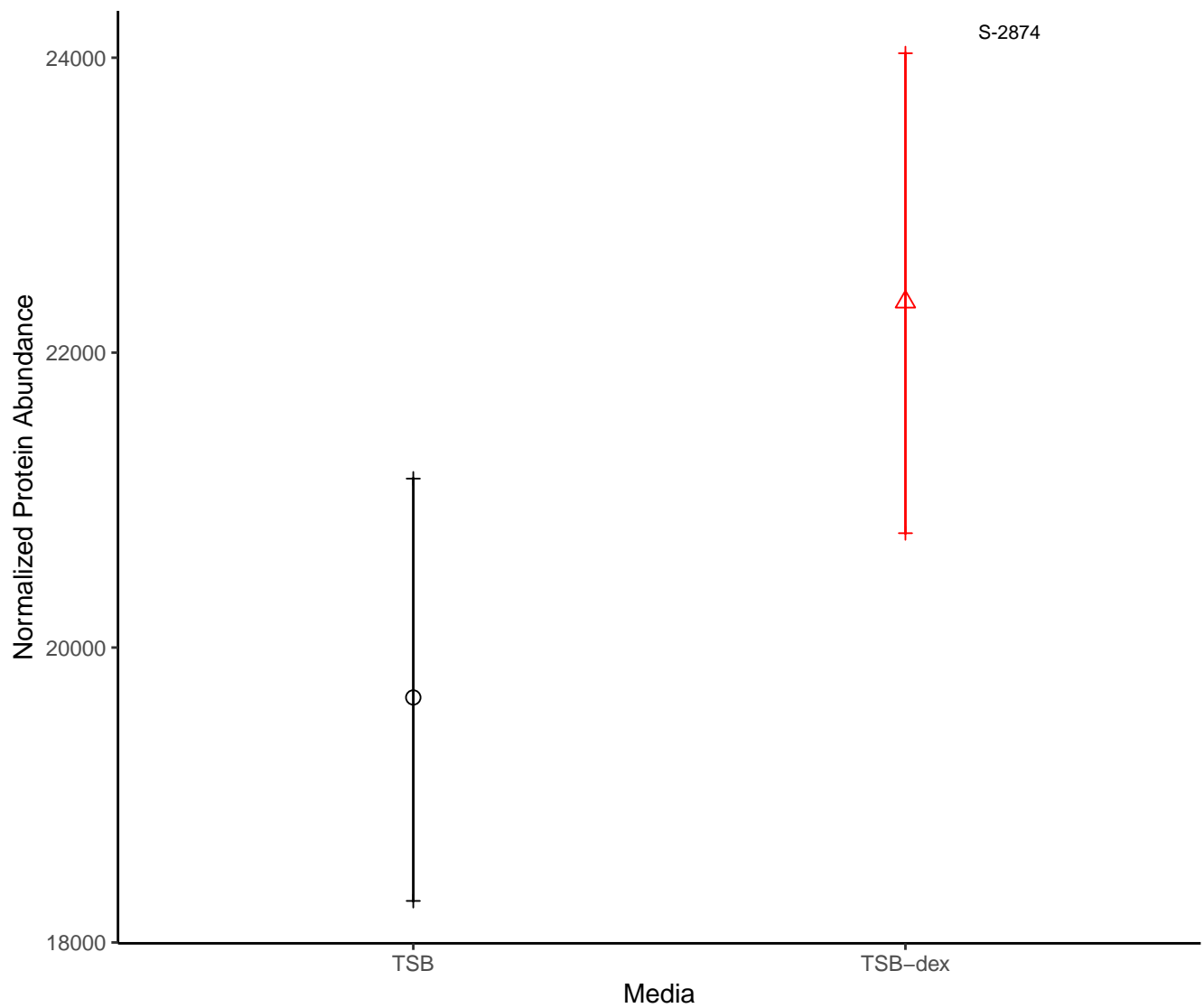




# RS6\_STAAM



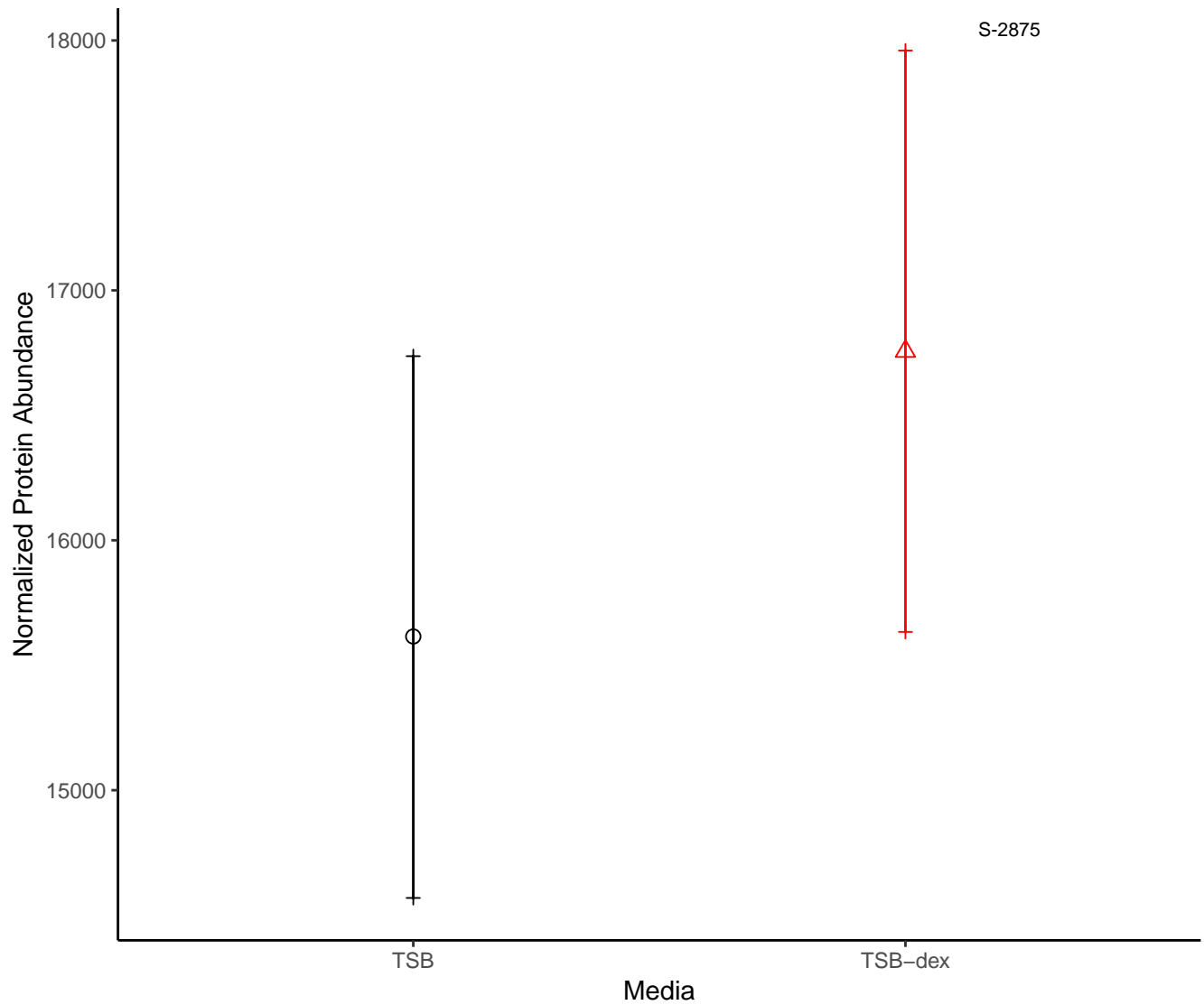
# RS7\_STAAM



⊕ TSB-dex

△ TSB

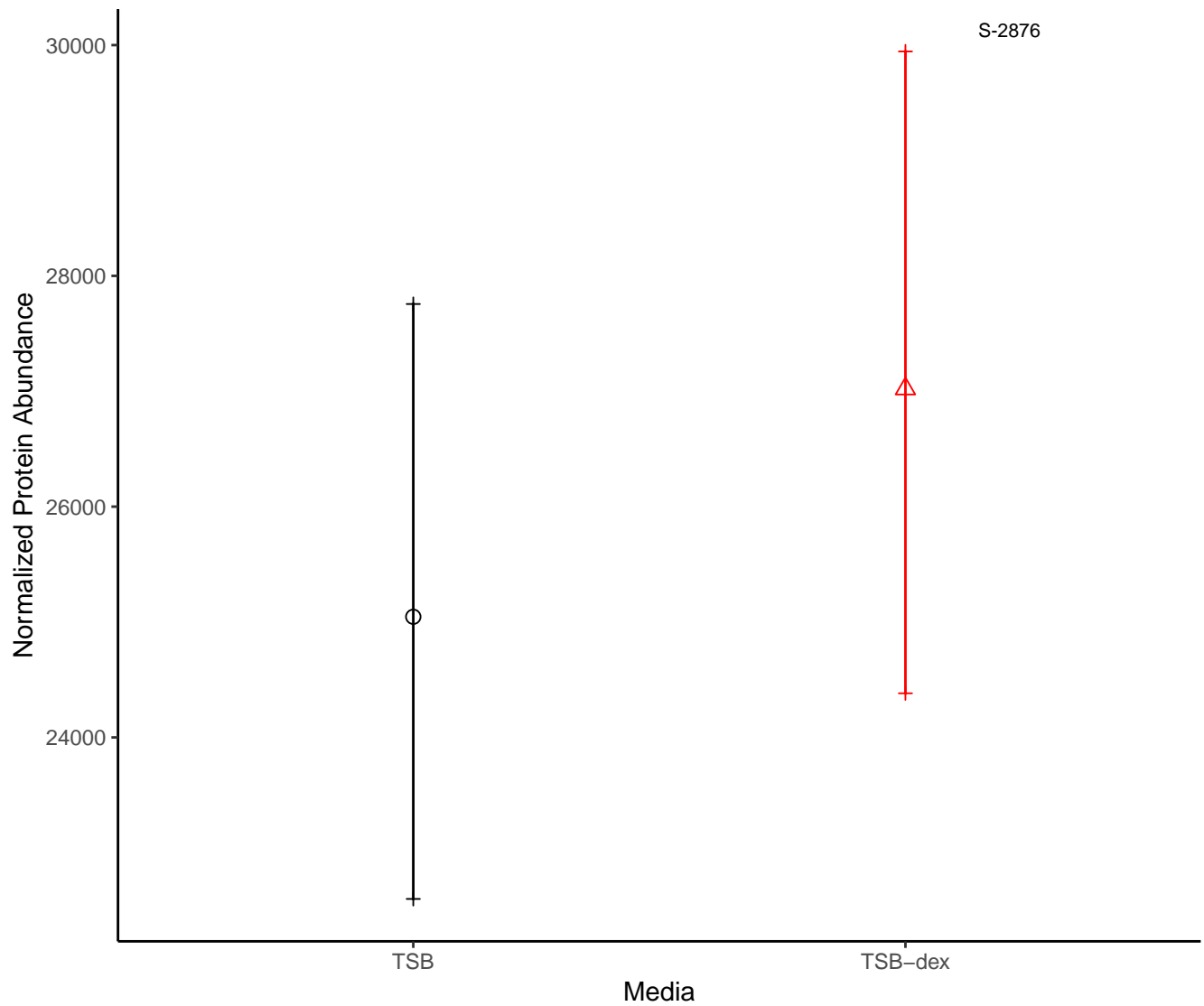
# RS8\_STAAM



⊕ TSB-dex

△ TSB

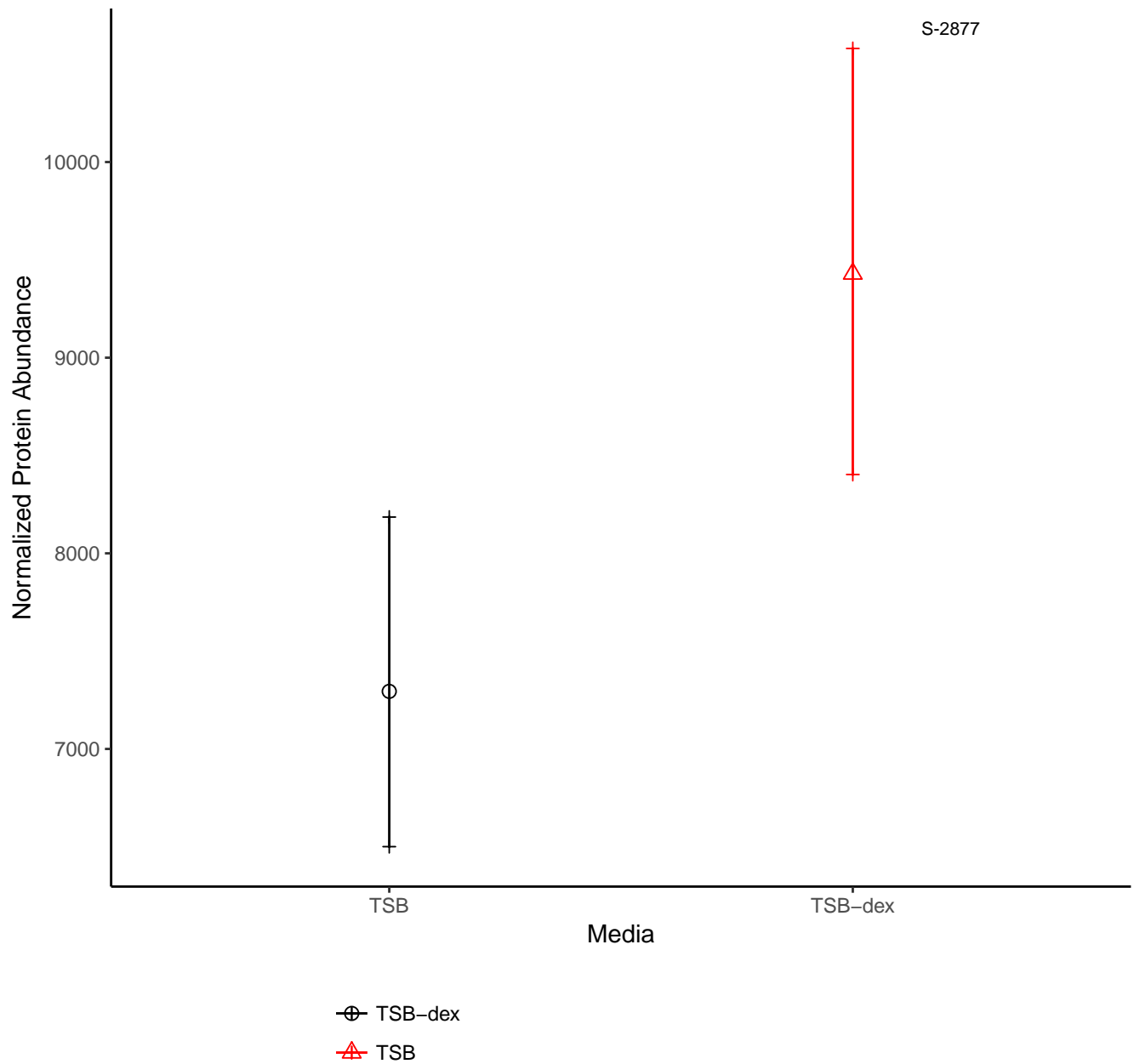
# RS9\_STAAM



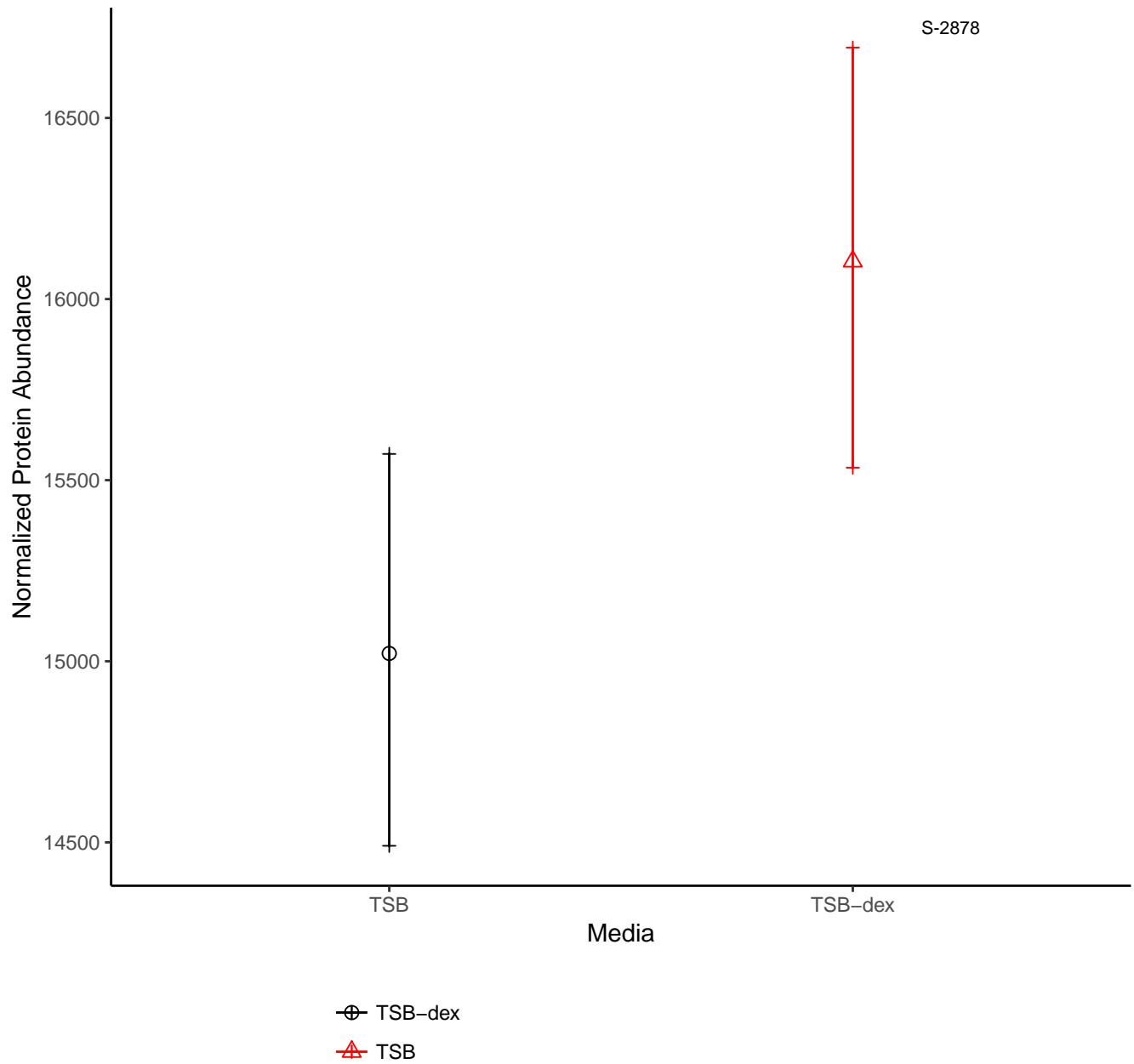
⊖ TSB-dex

△ TSB

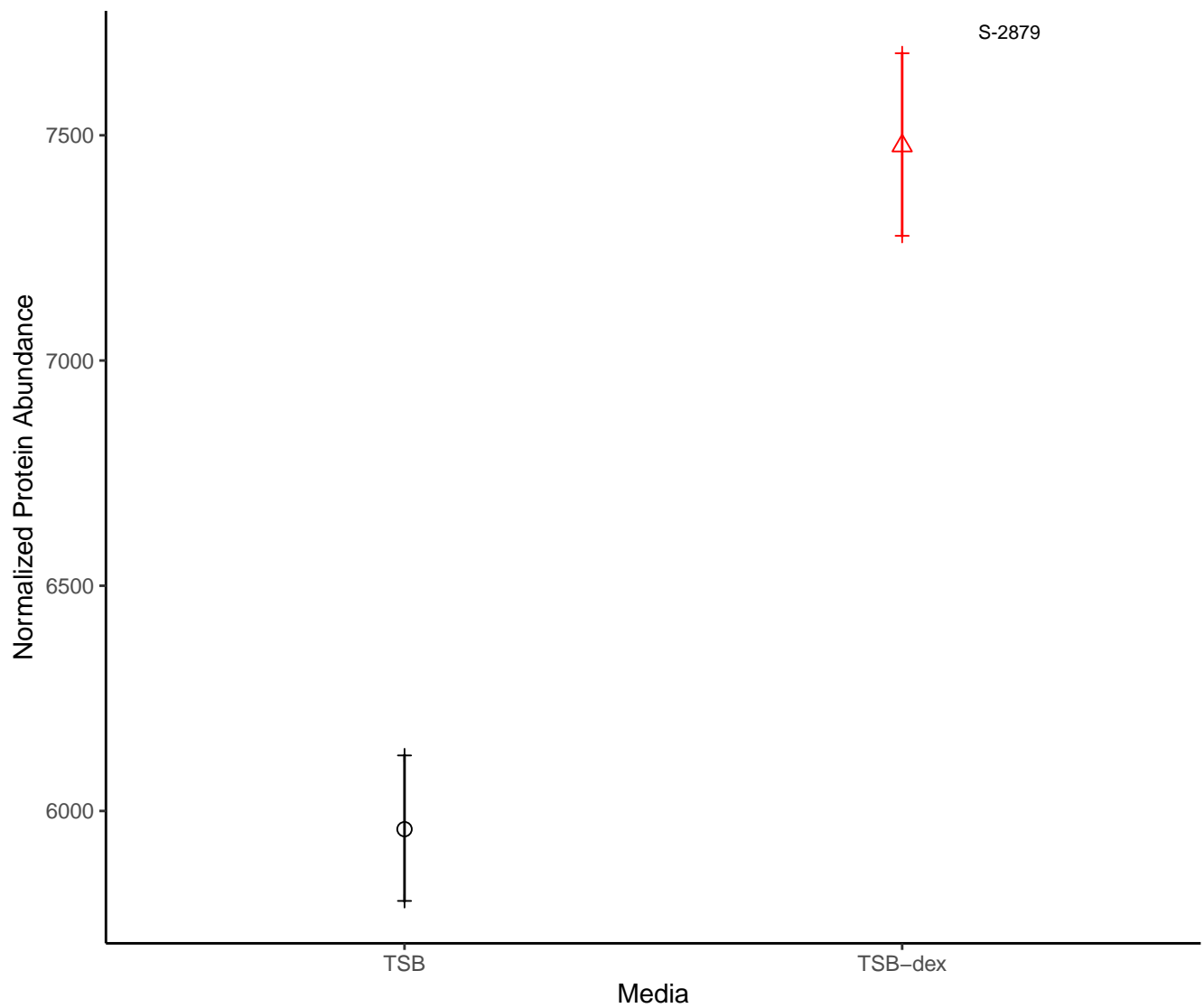
# RSBV\_STAAM



# RSBW\_STAAM



# RSMA\_STAAM

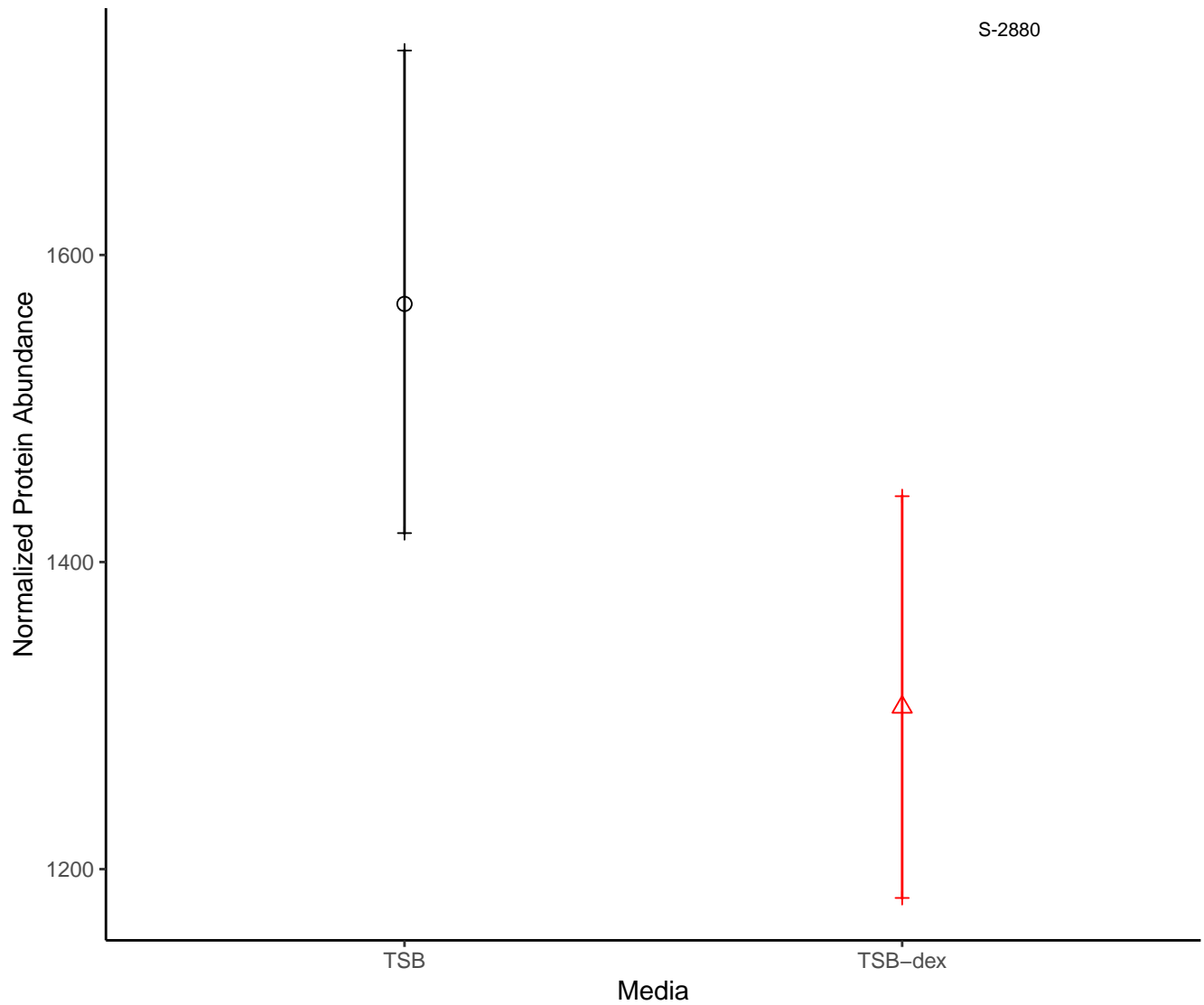


⊕ TSB-dex

△ TSB

# RSMG\_STAAM

S-2880



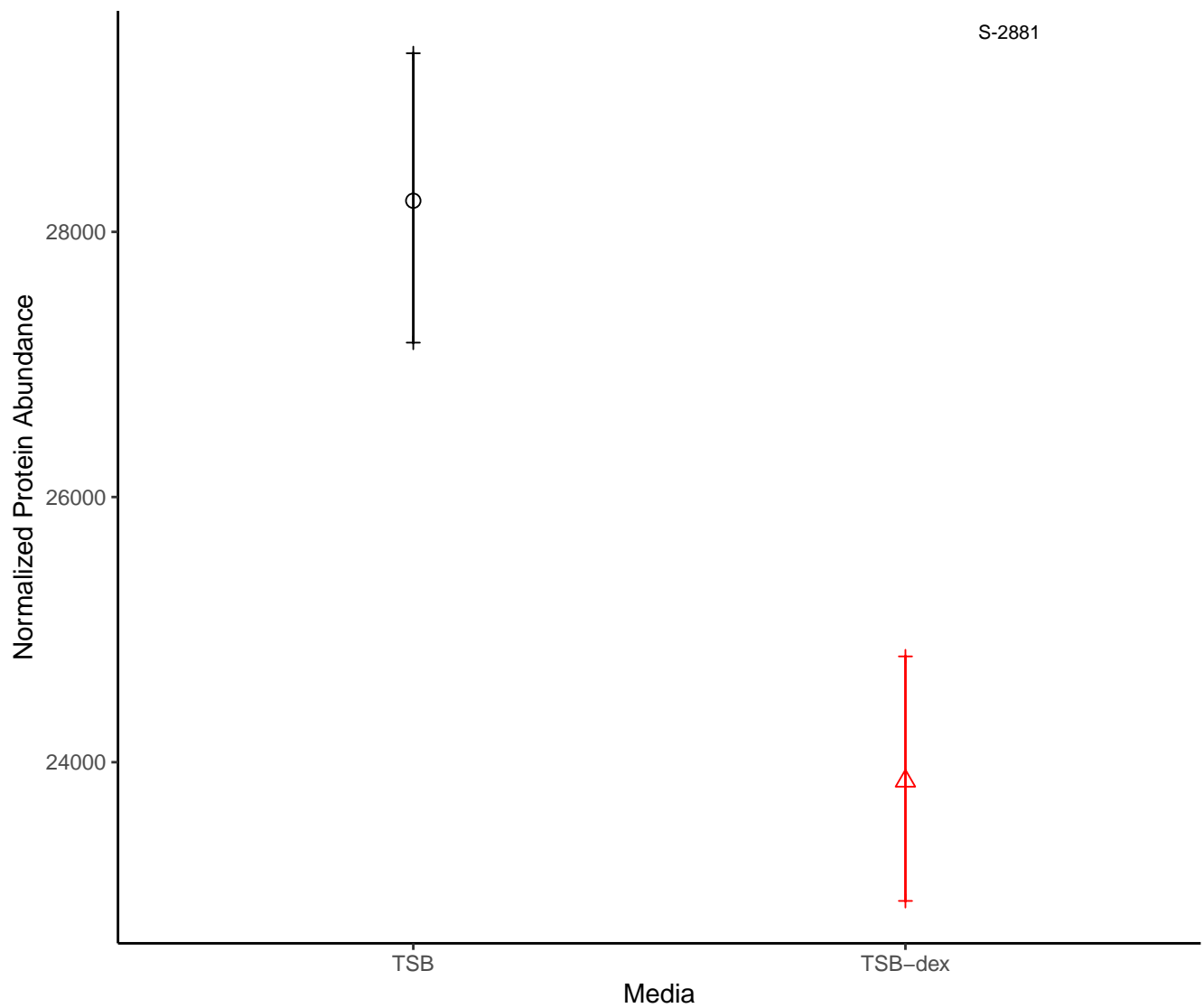
⊕ TSB-dex

△ TSB



# RUVX\_STAAM

S-2881

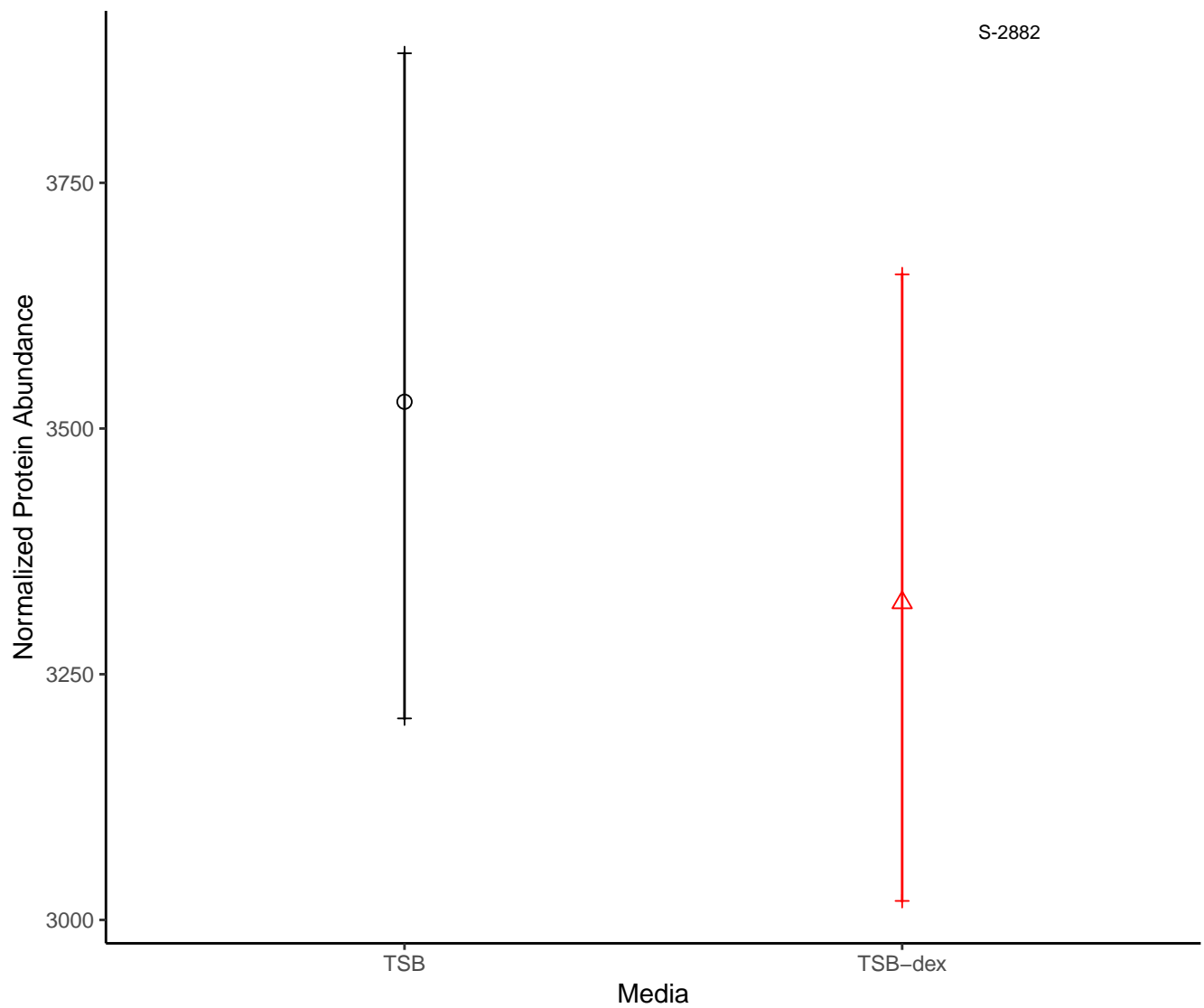


⊕ TSB-dex

△ TSB

# S3AD\_STAAM

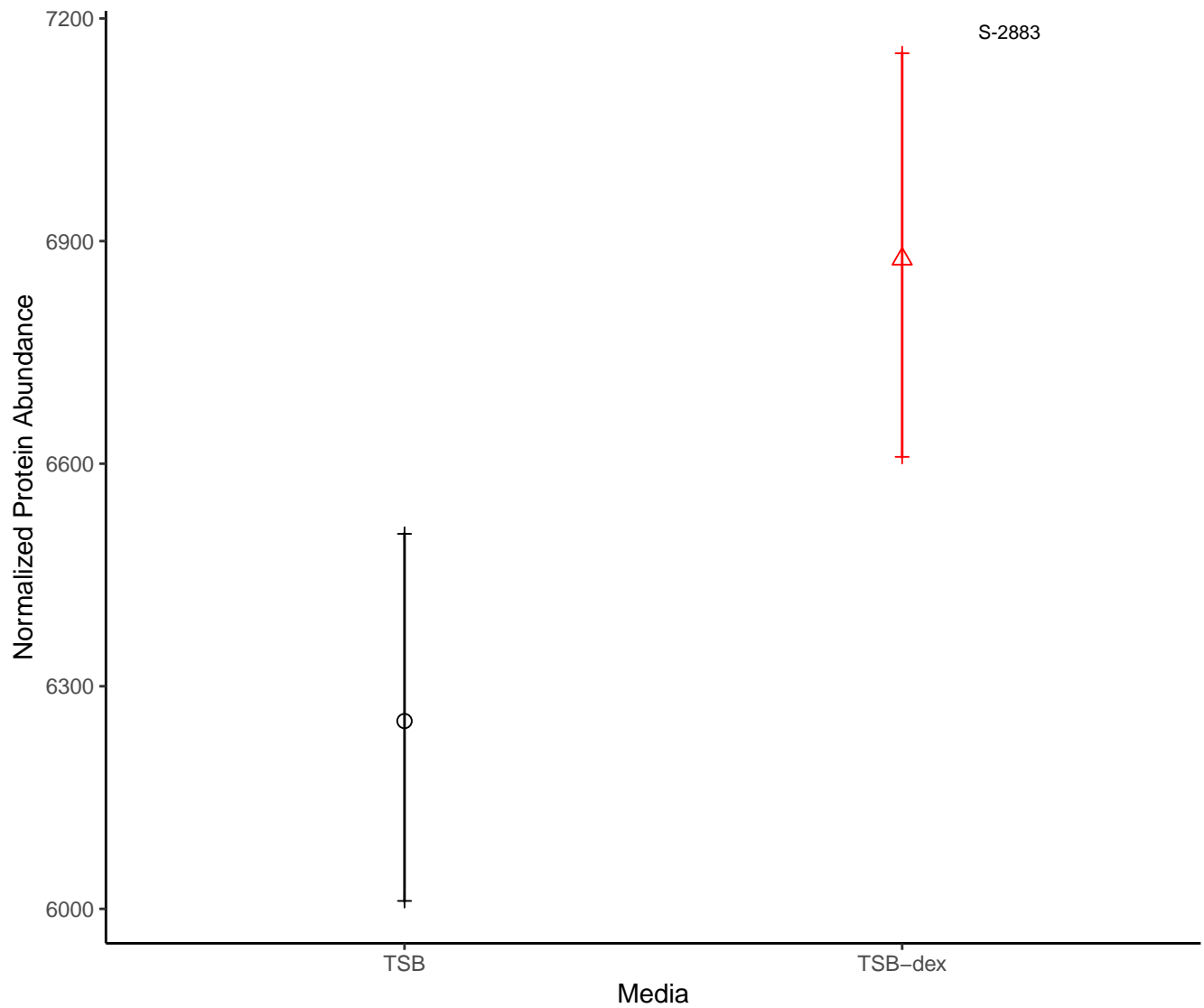
S-2882



⊕ TSB-dex

△ TSB

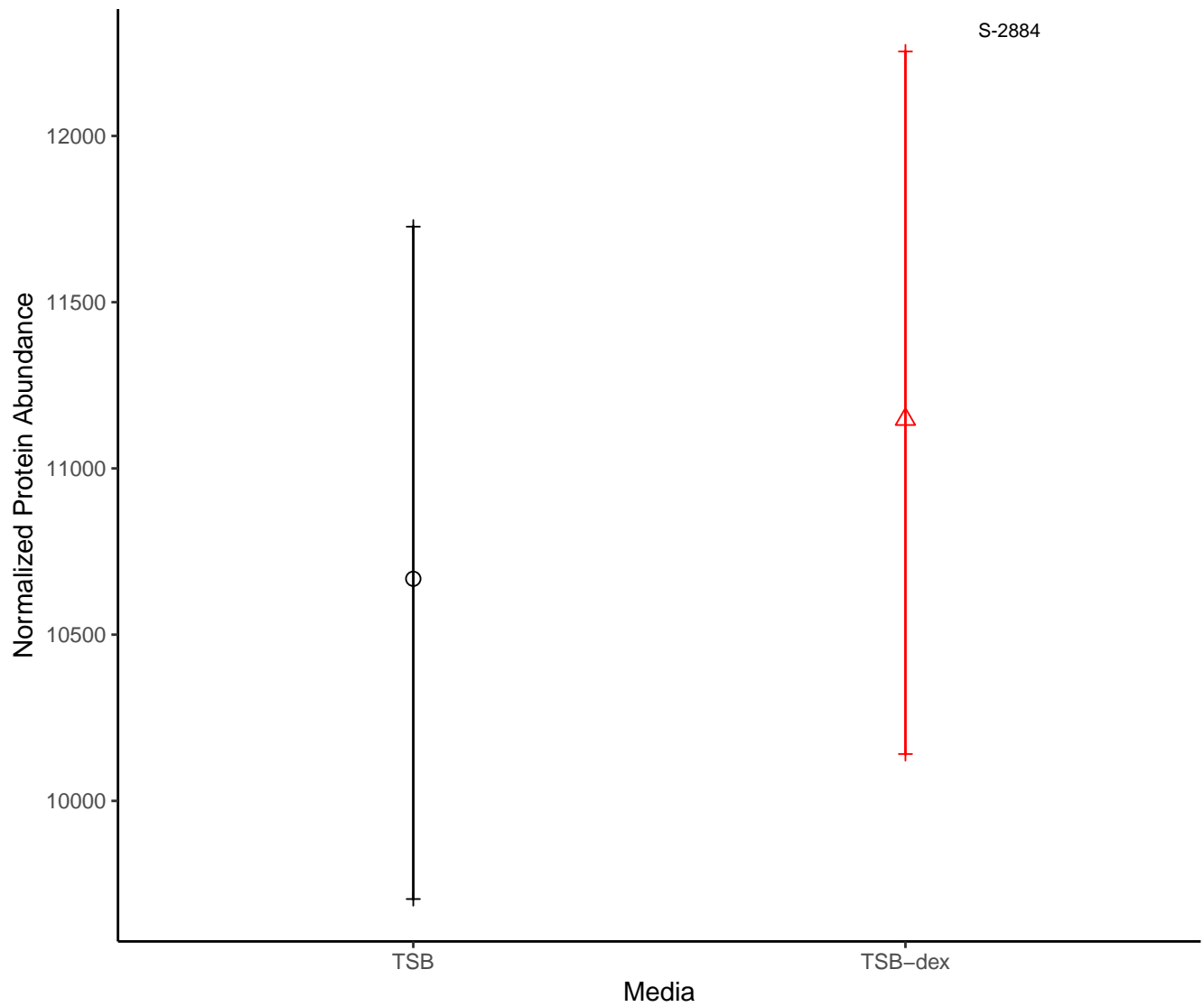
# SAER\_STAAM



⊕ TSB-dex

△ TSB

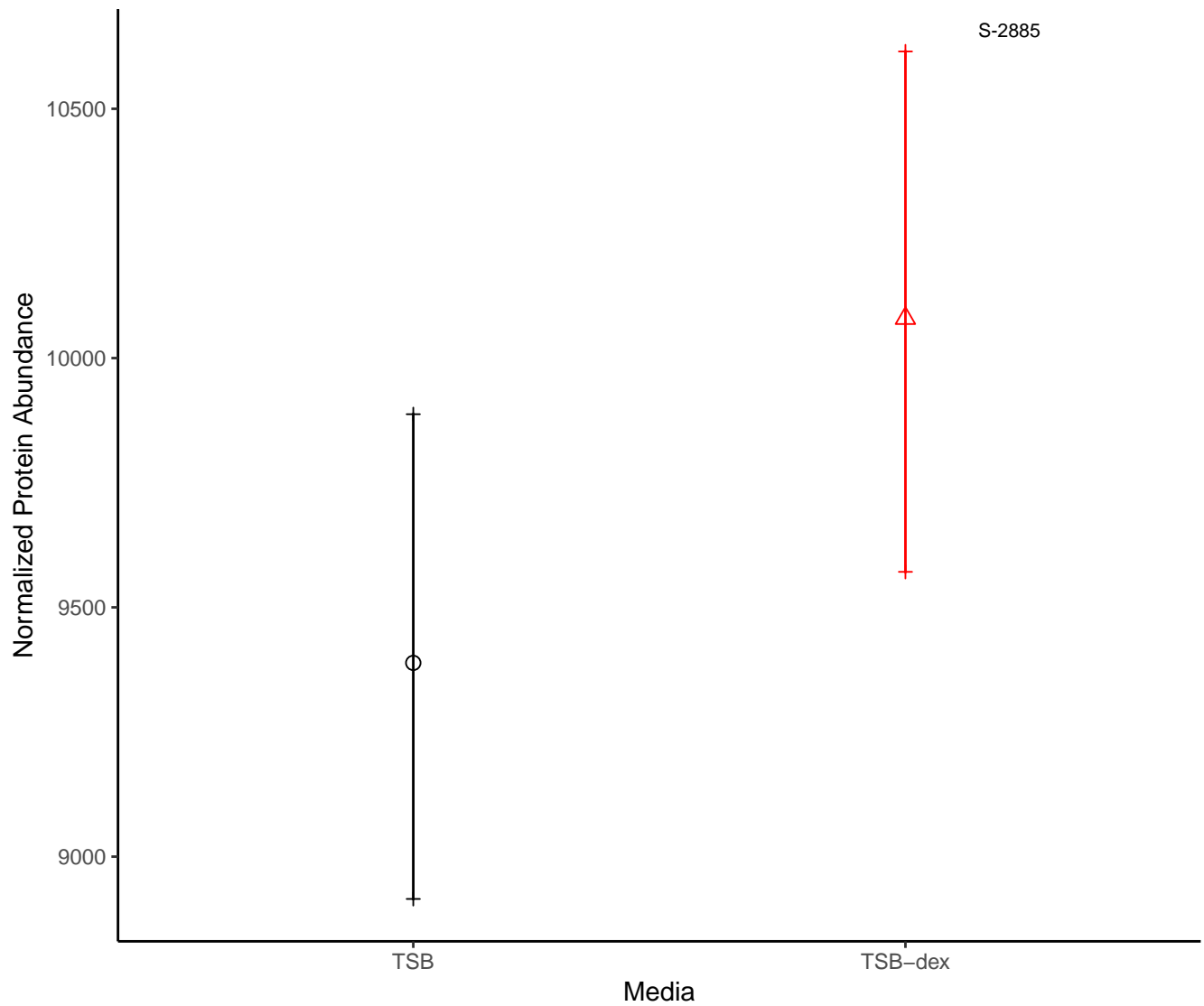
# SARA\_STAAM



⊕ TSB-dex

△ TSB

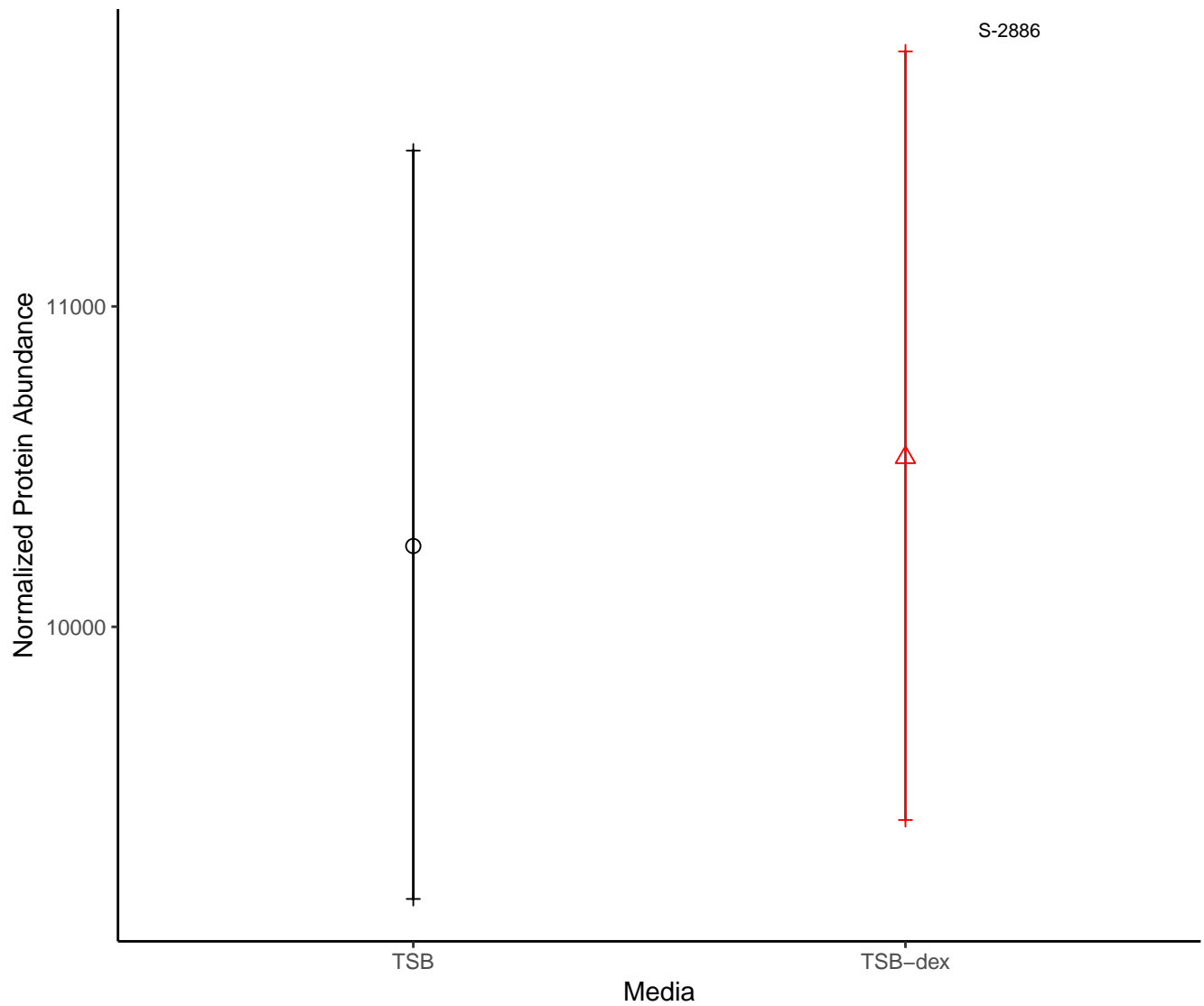
# SARR\_STAAM



⊕ TSB-dex

△ TSB

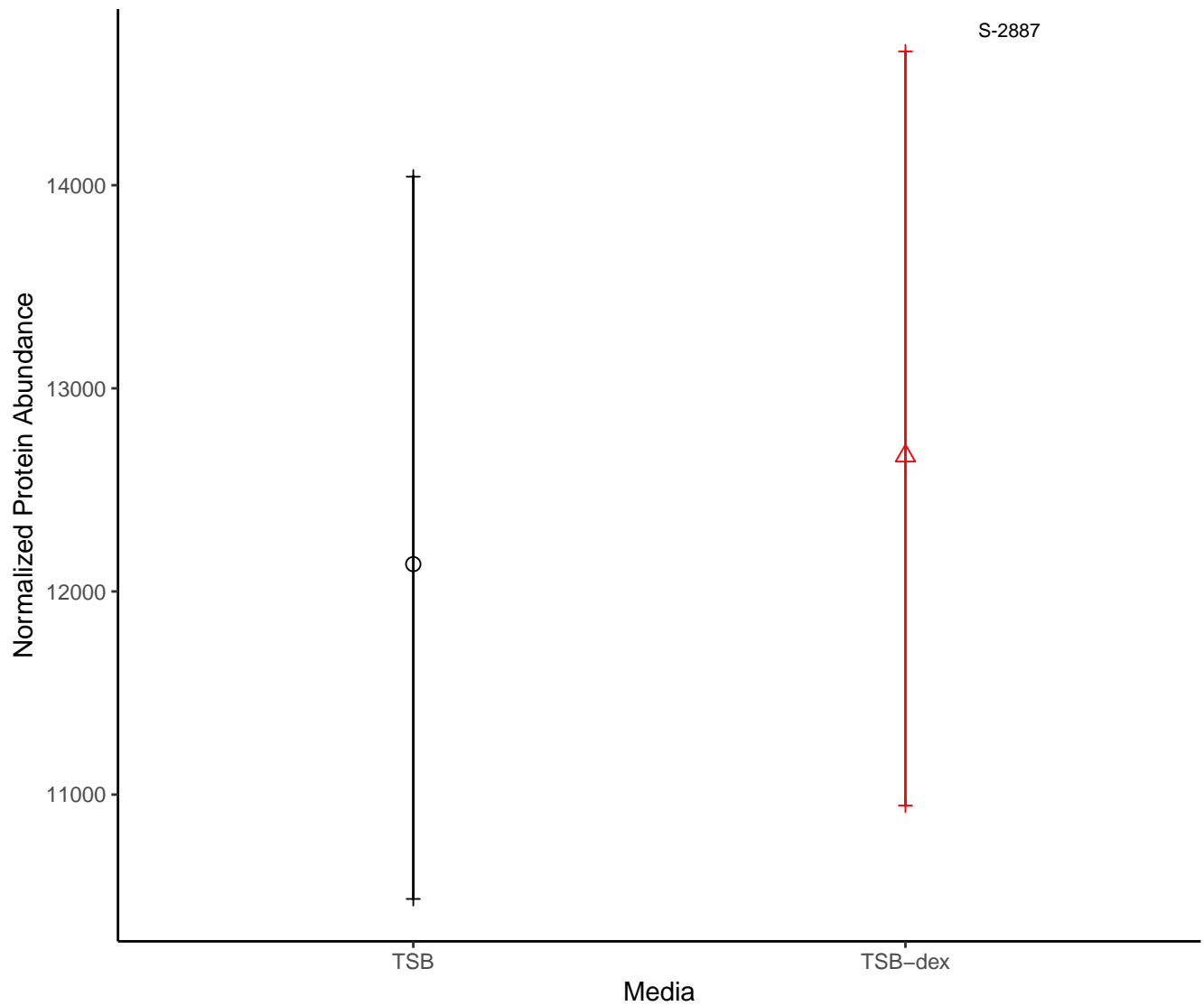
# SARS\_STAAM



⊕ TSB-dex

△ TSB

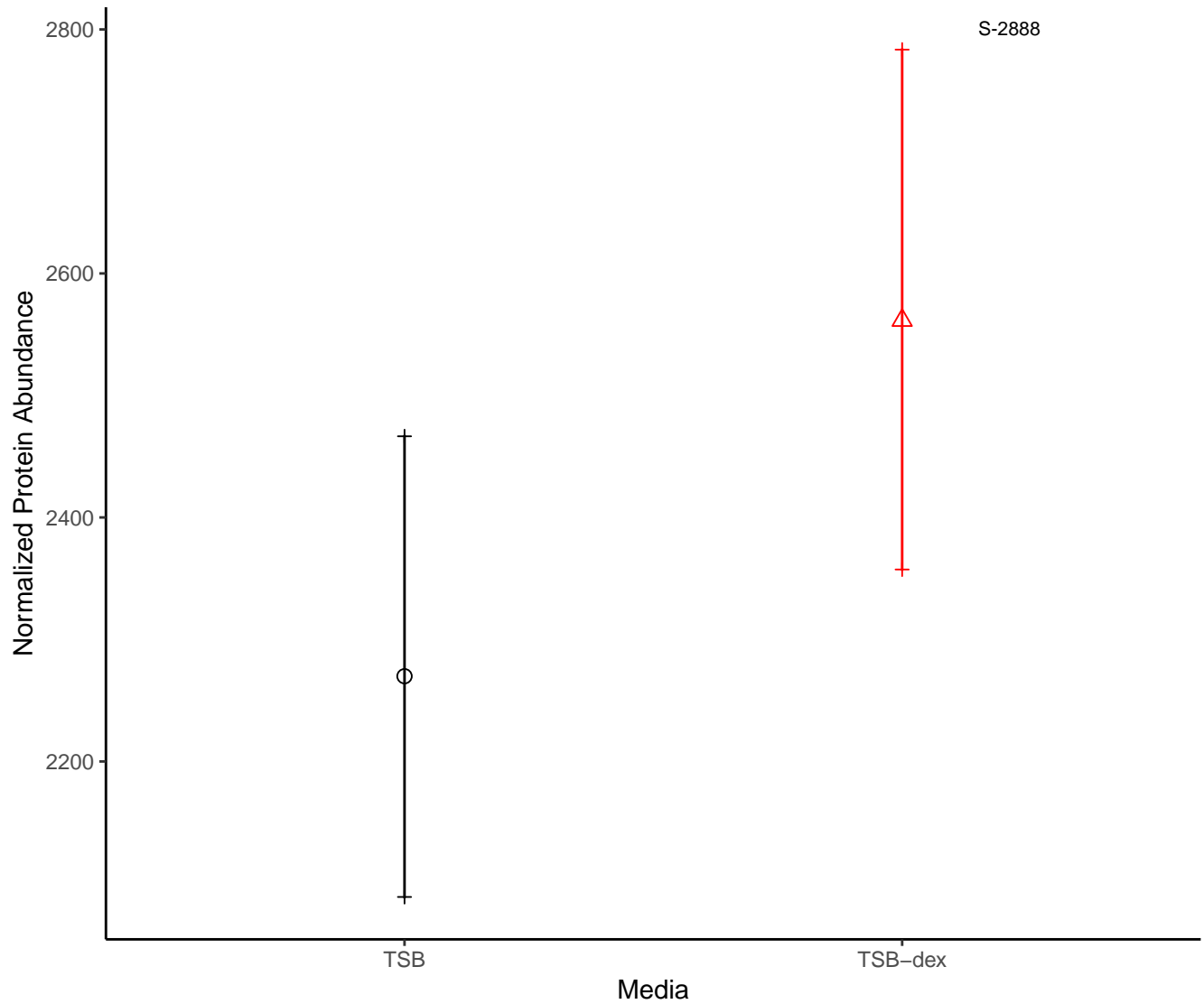
# SBCC\_STAAM



⊕ TSB-dex

△ TSB

# SBI\_STAAM



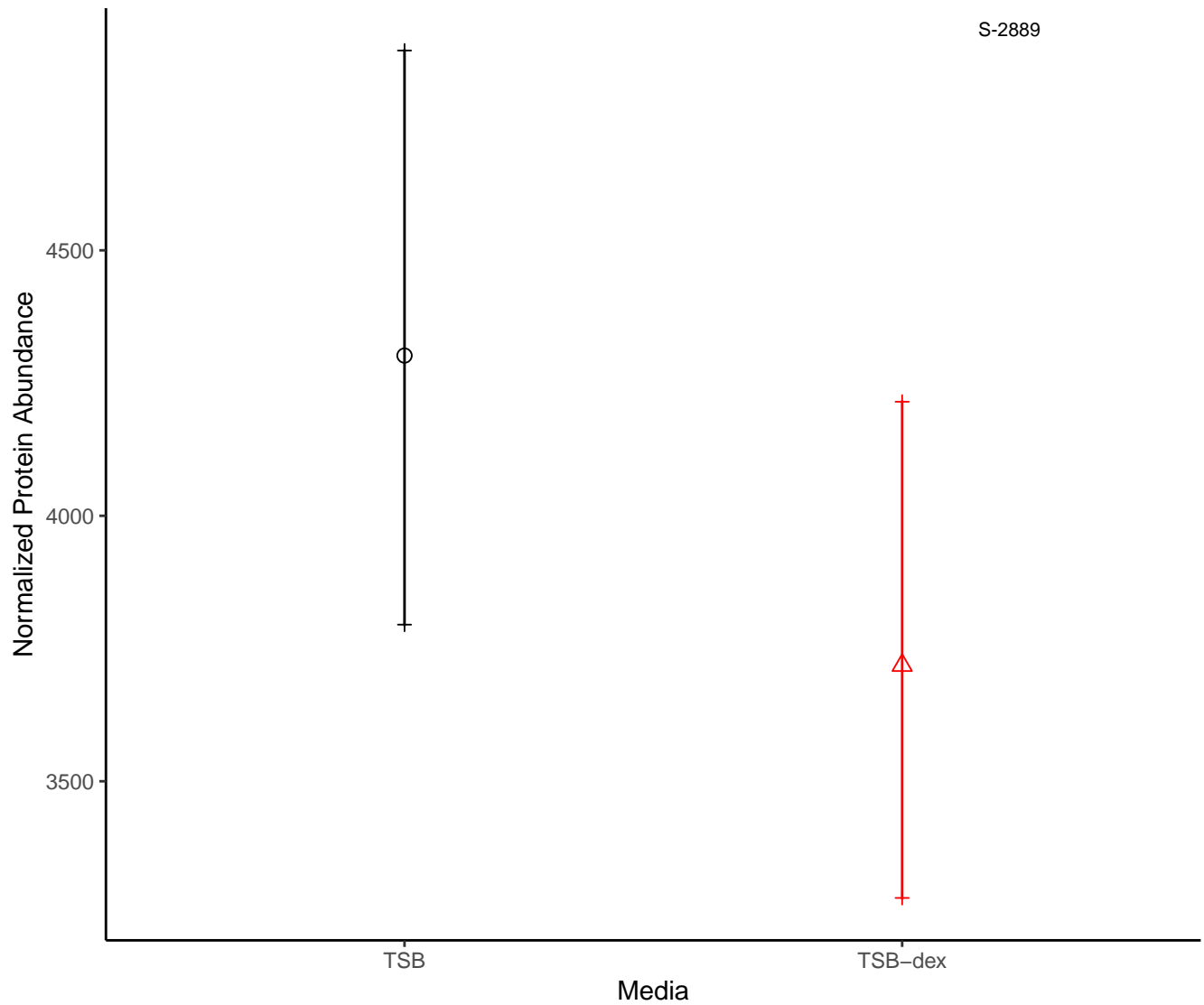
⊕ TSB-dex

△ TSB



# SCPA\_STAAM

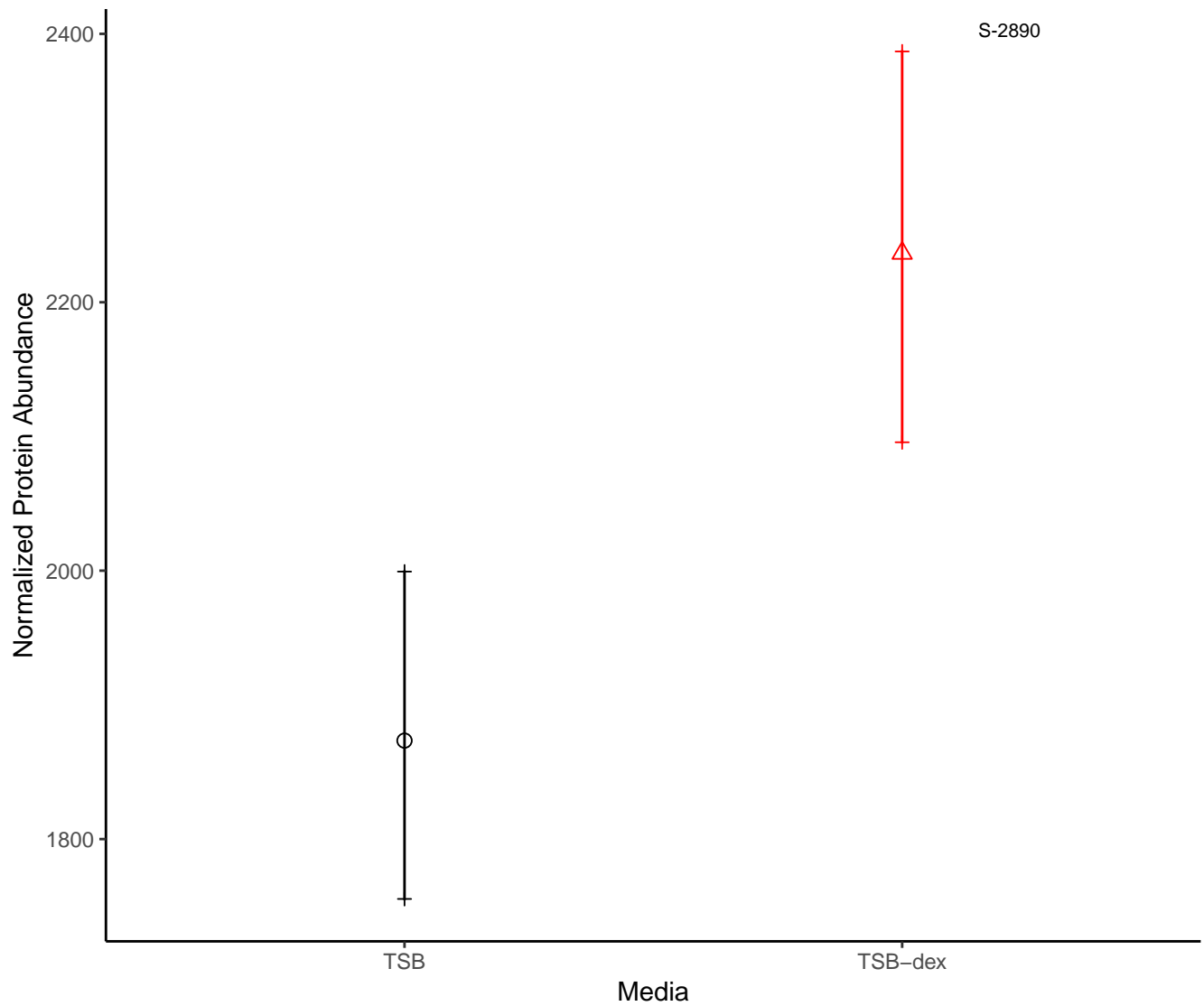
S-2889



⊕ TSB-dex

△ TSB

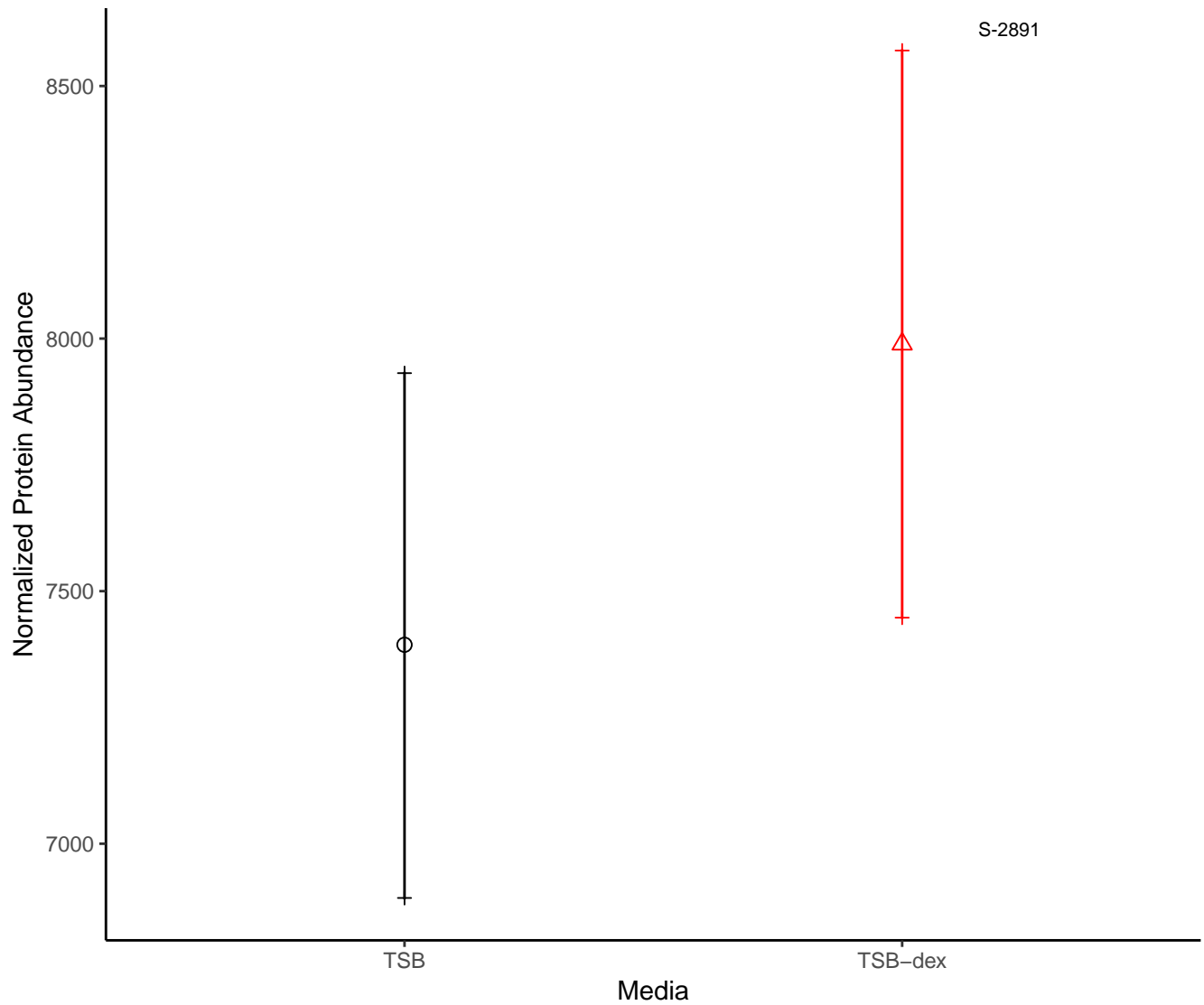
# SCPB\_STAAM



⊕ TSB-dex

△ TSB

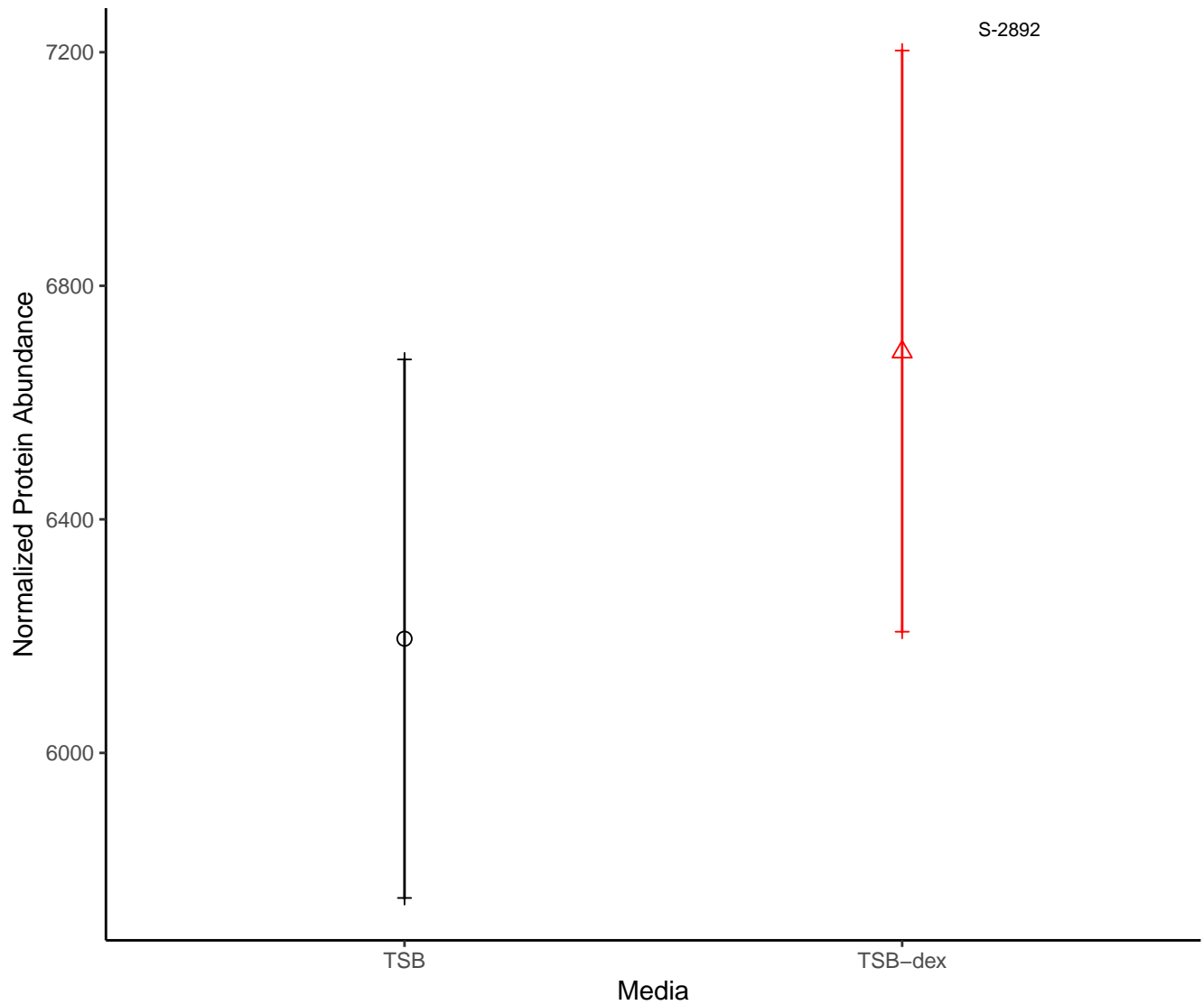
# SECA1\_STAAM



⊕ TSB-dex

△ TSB

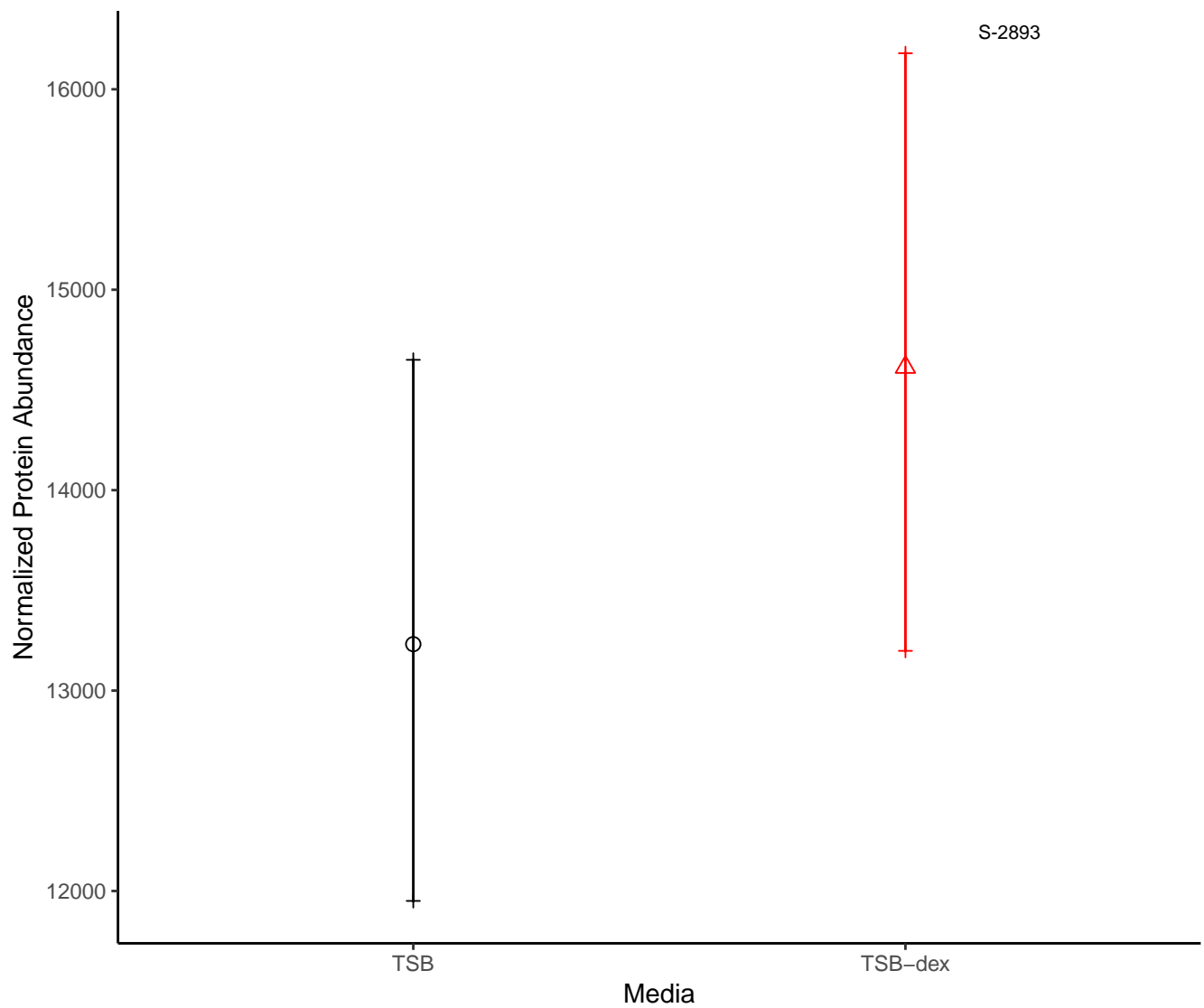
# SIGA\_STAAM



⊕ TSB-dex

△ TSB

# SODM1\_STAAM

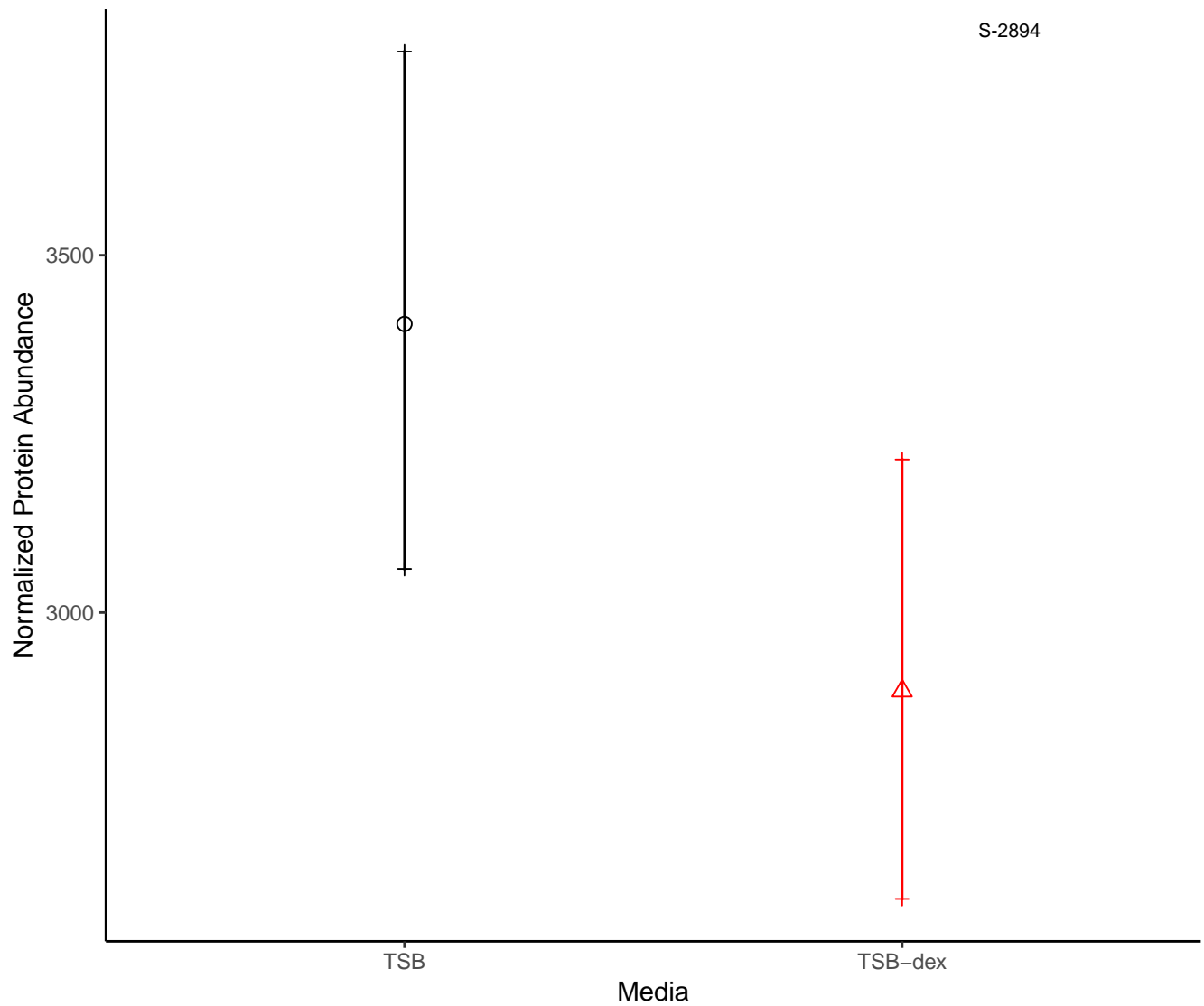


⊖ TSB-dex

△ TSB

# SODM2\_STAAM

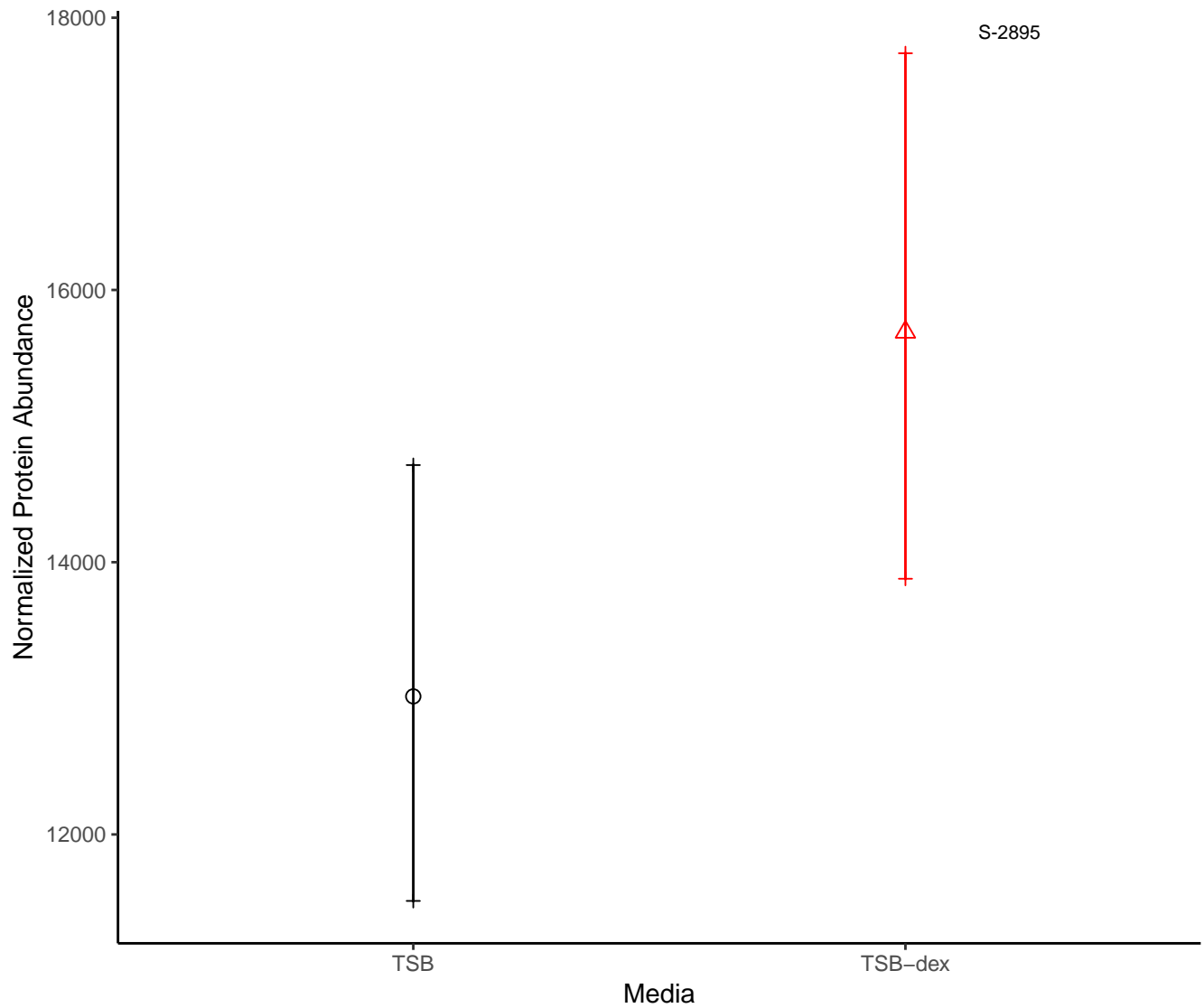
S-2894



⊕ TSB-dex

△ TSB

# SP5G\_STAAM

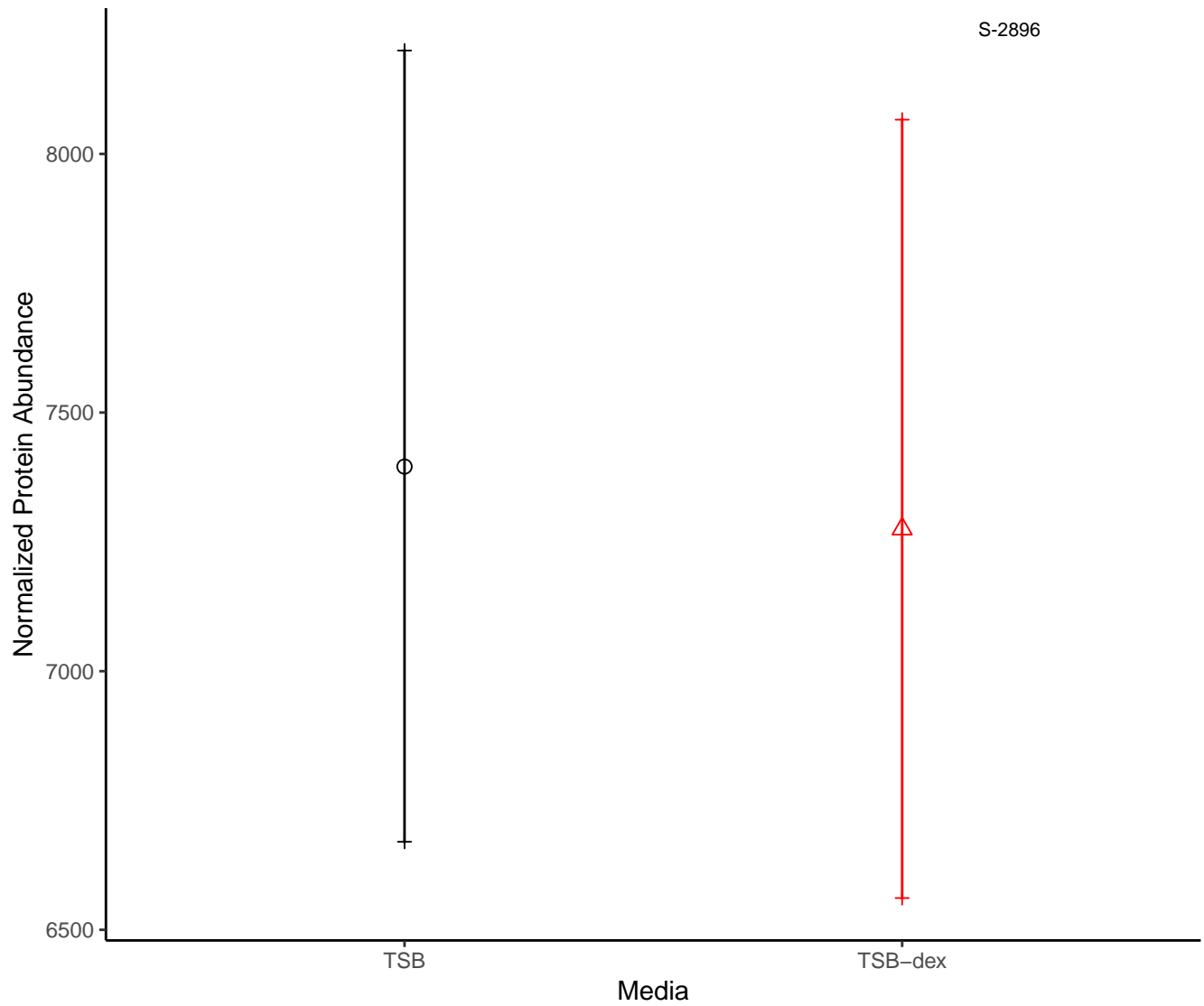


⊕ TSB-dex

△ TSB

# SPA\_STAAM

S-2896



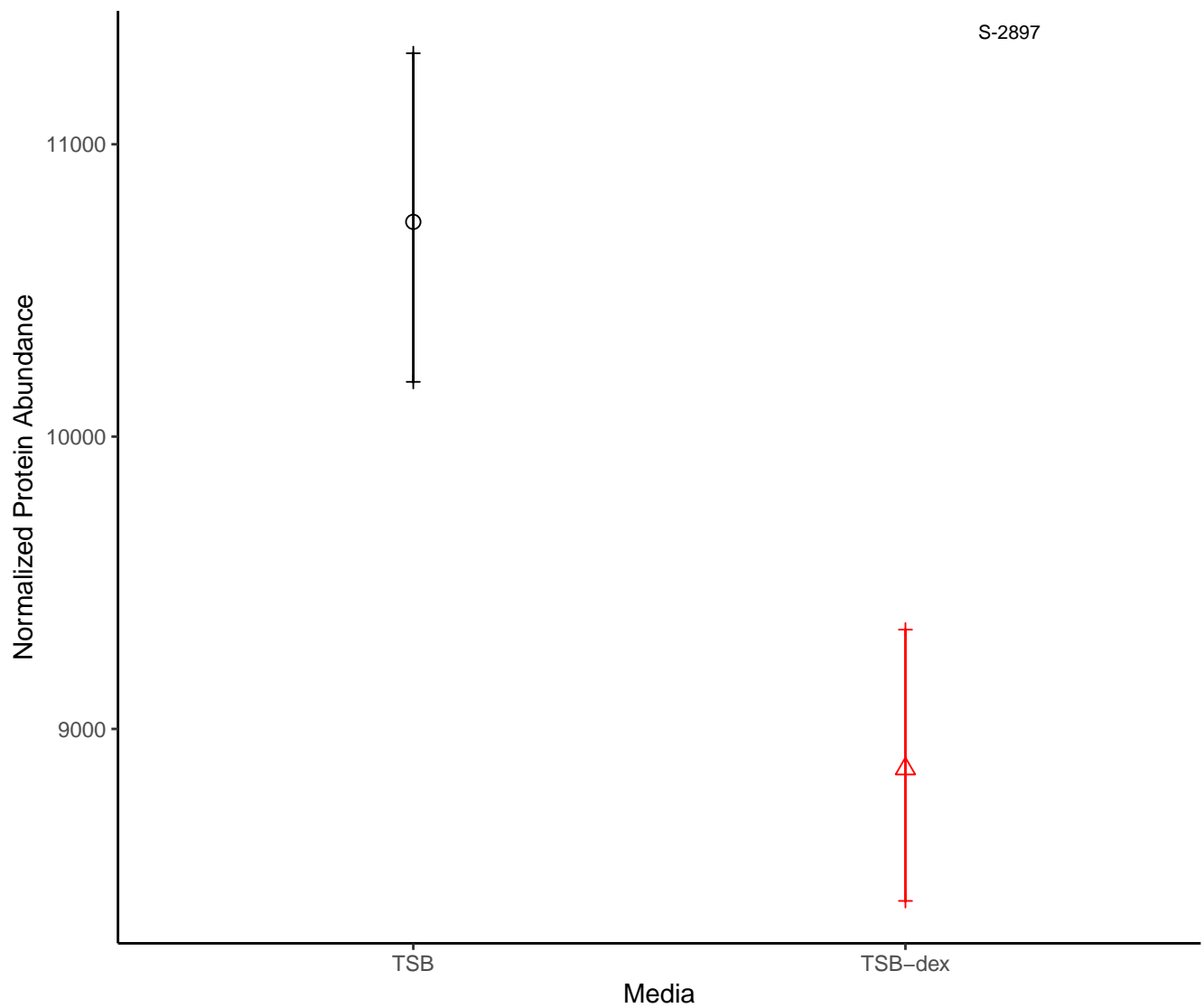
⊕ TSB-dex

△ TSB



# SPLD\_STAAM

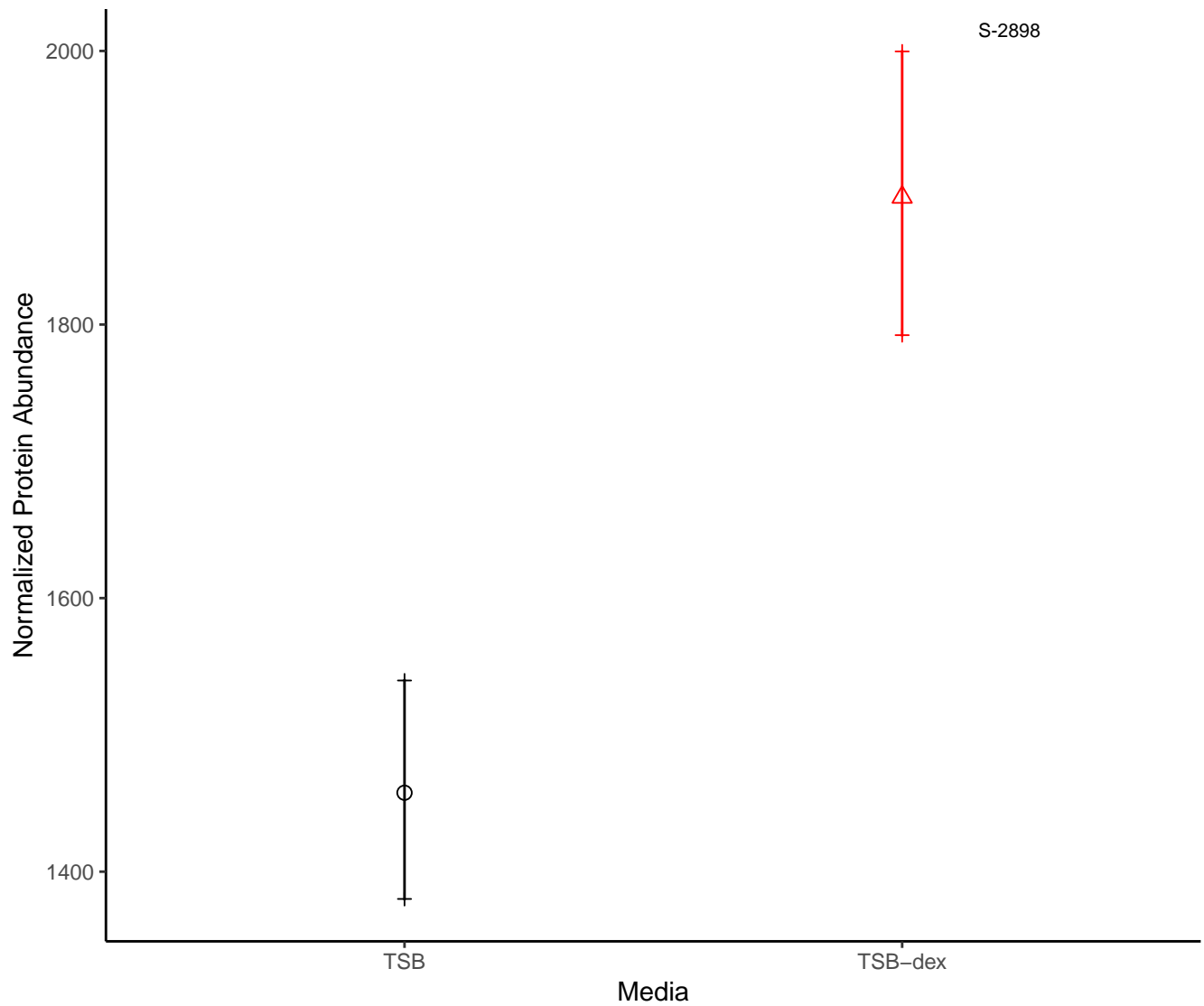
S-2897



⊕ TSB-dex

△ TSB

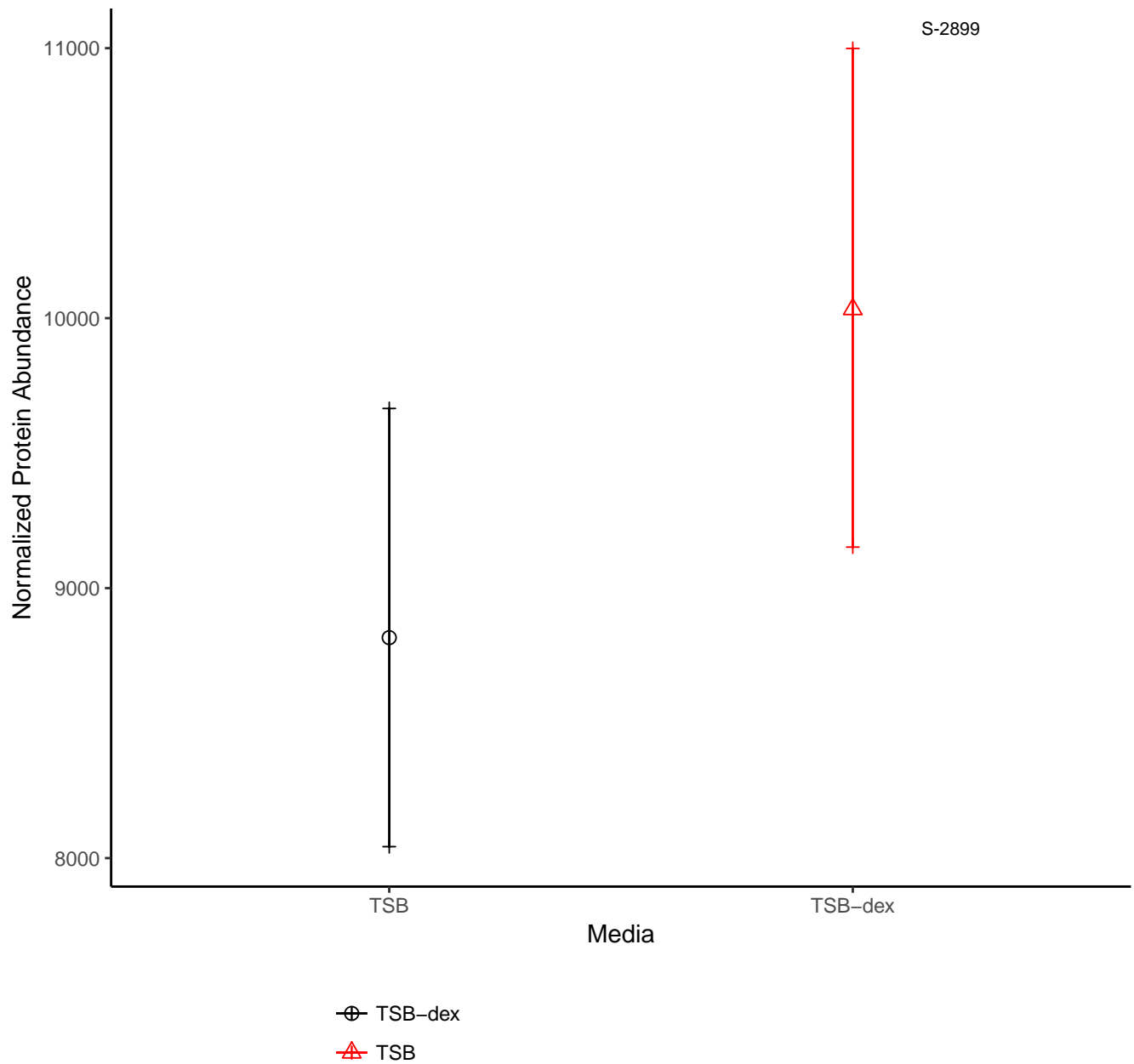
# SPX\_STAAM



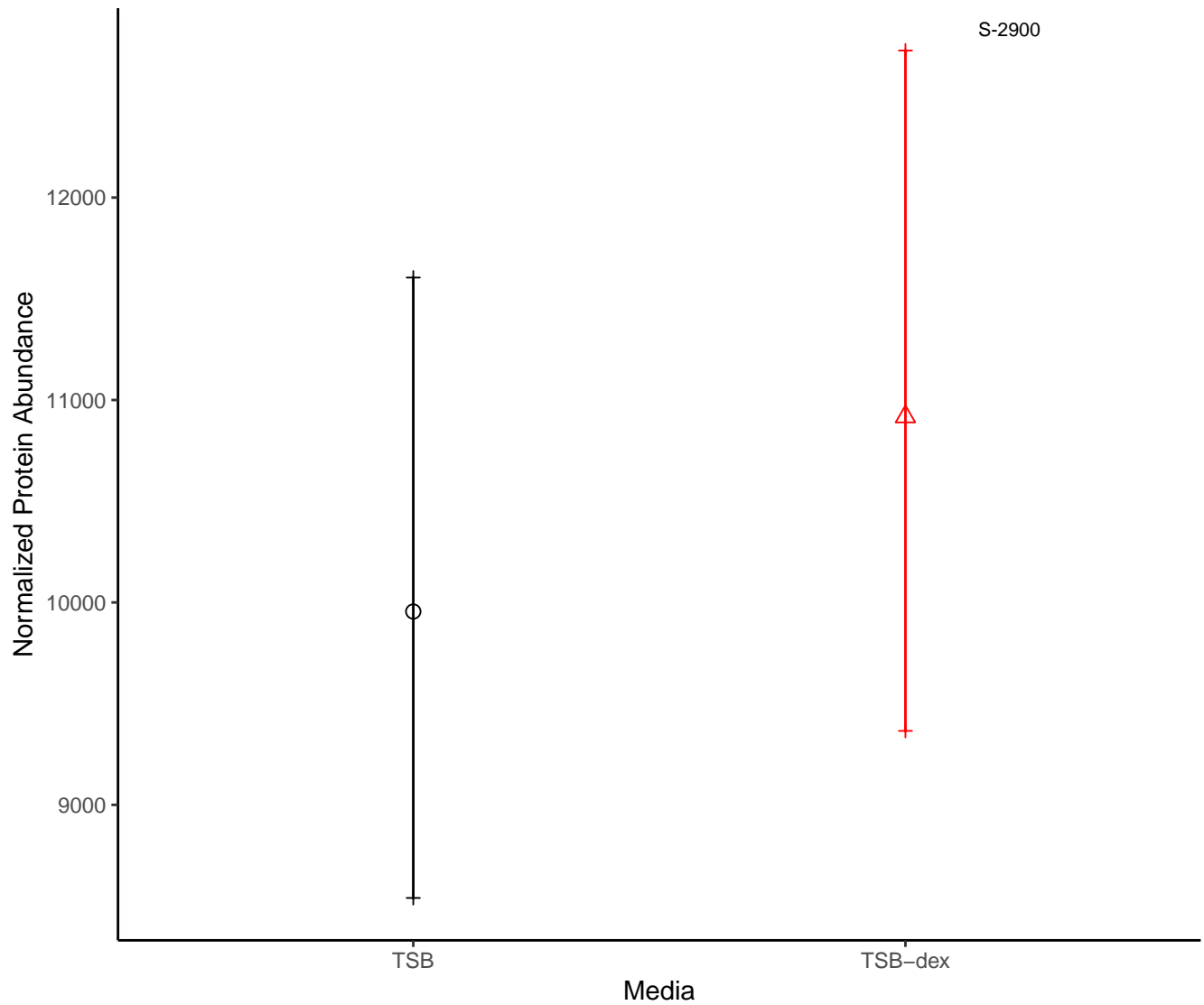
⊕ TSB-dex

△ TSB

# SRRR\_STAAM



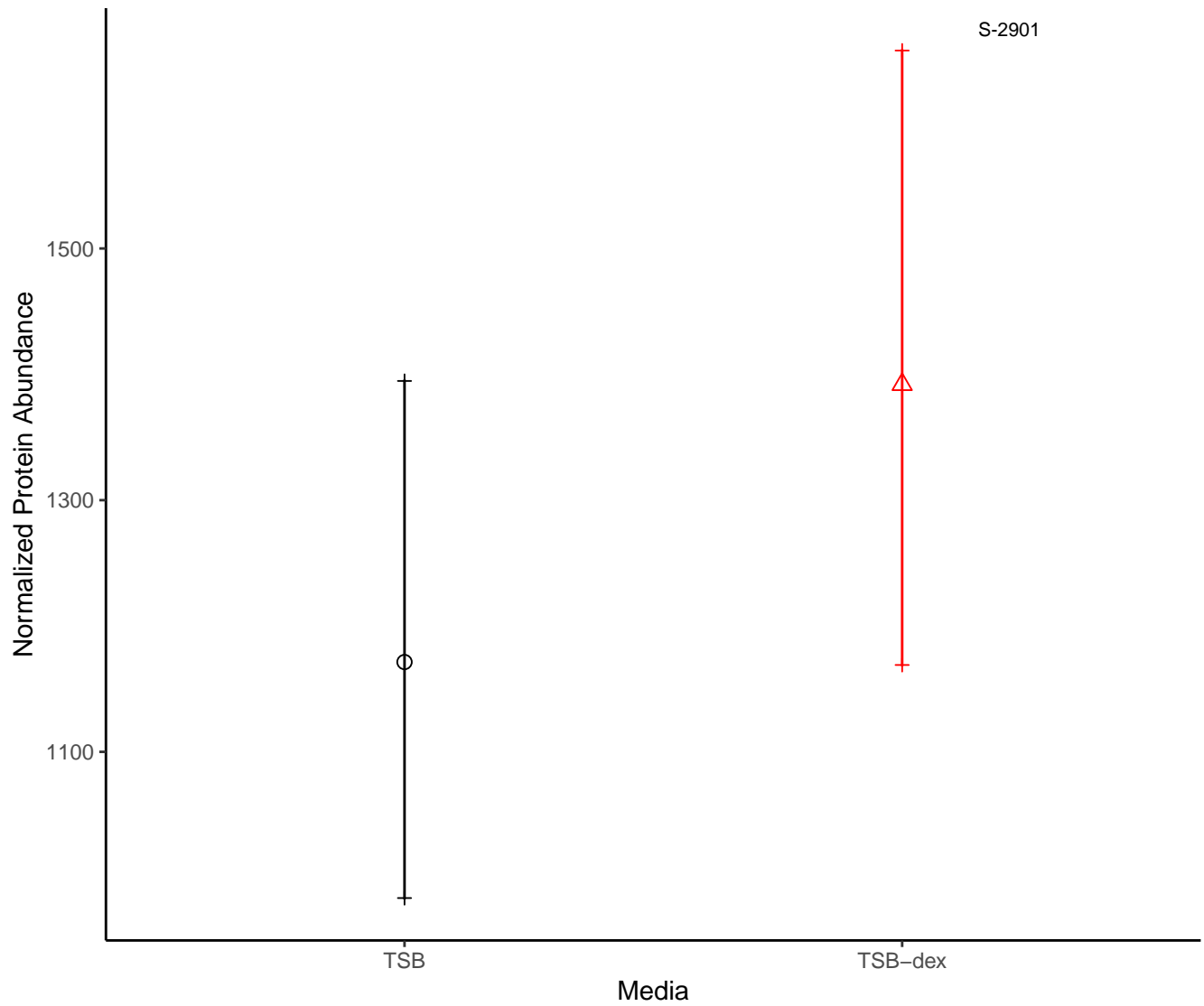
# SSAA2\_STAAM



⊕ TSB-dex

△ TSB

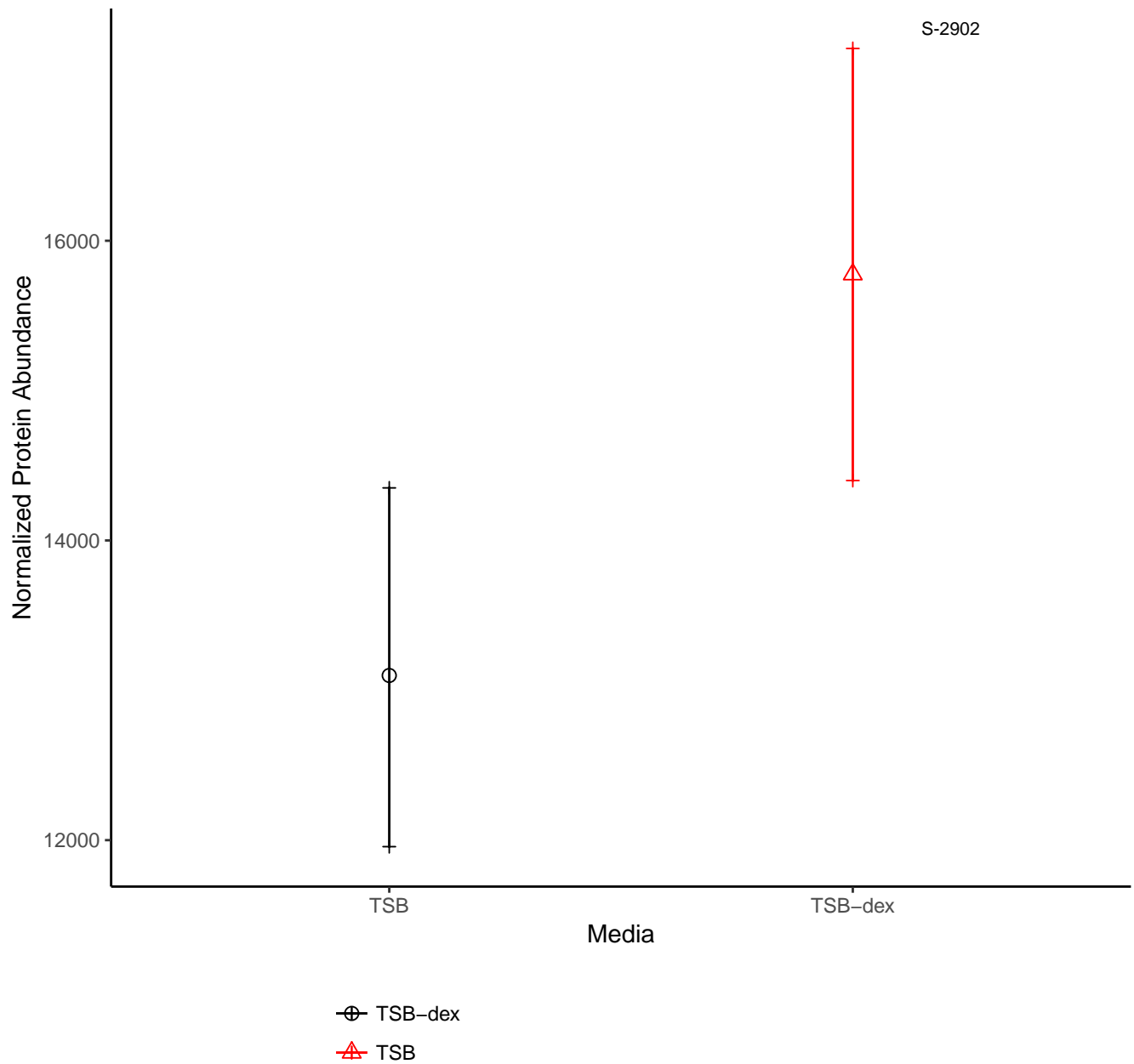
# SSB1\_STAAM



⊕ TSB-dex

△ TSB

# SSB2\_STAAM



# SUCC\_STAAM

S-2903

Normalized Protein Abundance

16000  
15000  
14000

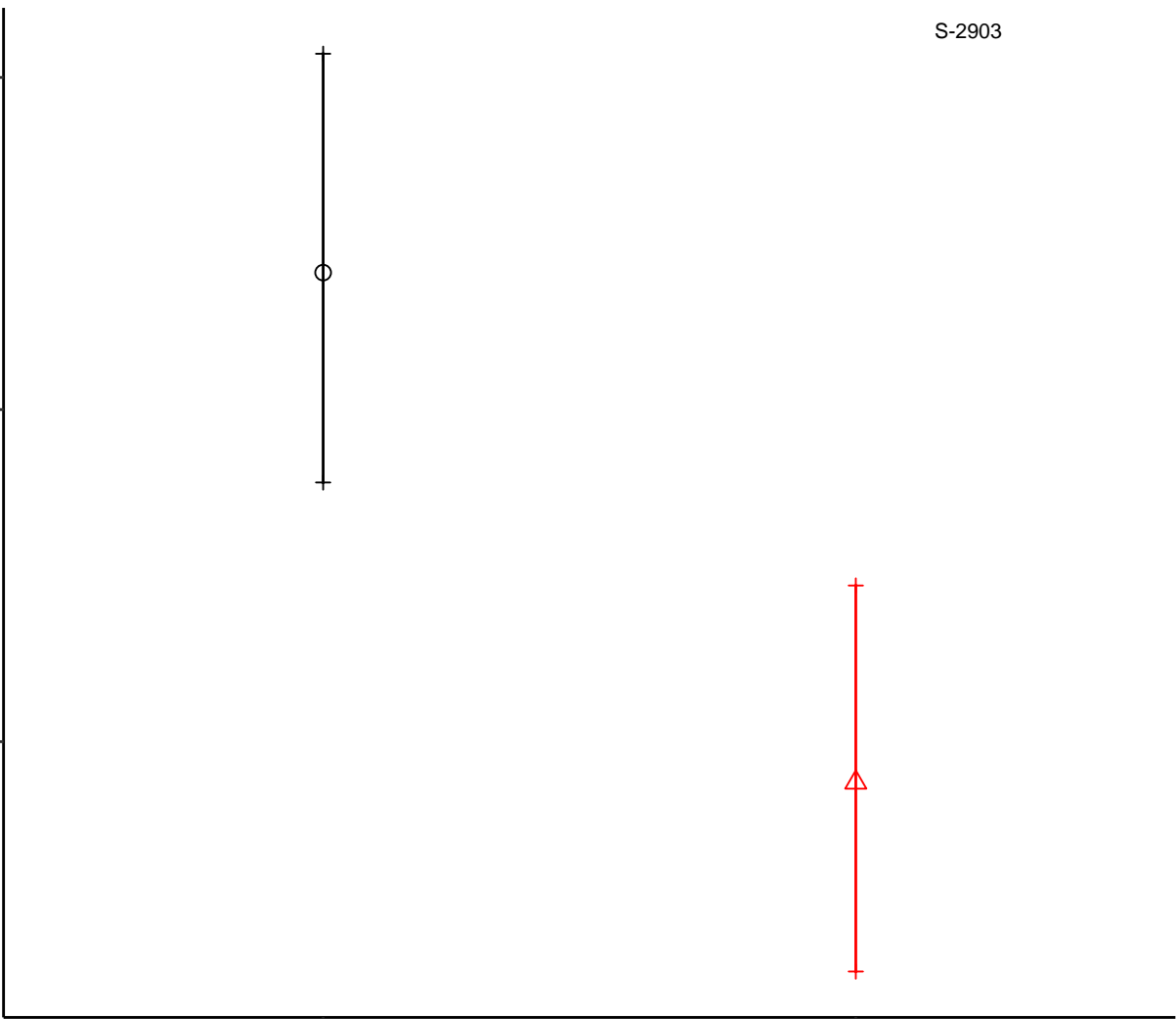
TSB

Media

TSB-dex

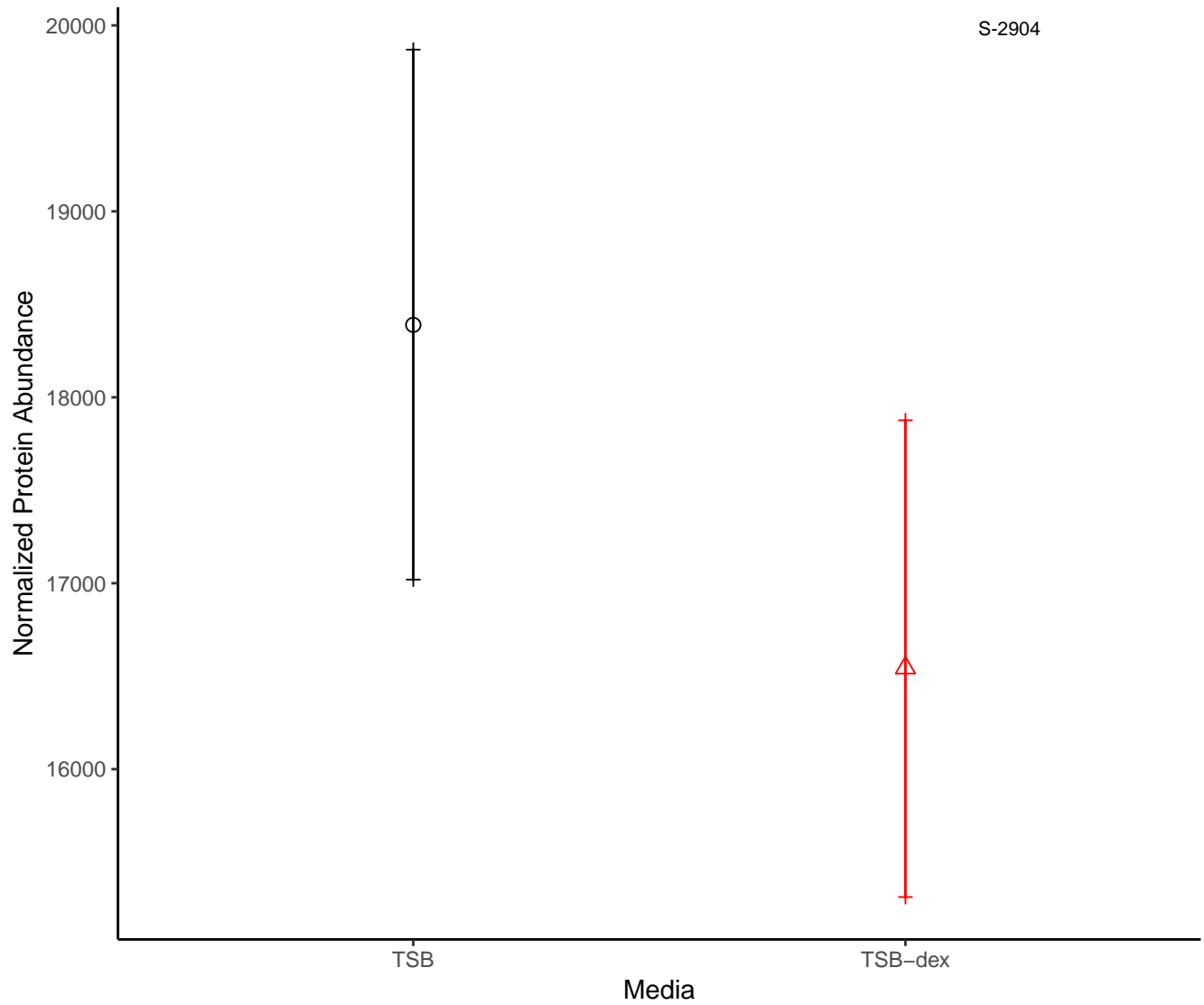
⊕ TSB-dex

△ TSB



# SUCD\_STAAM

S-2904

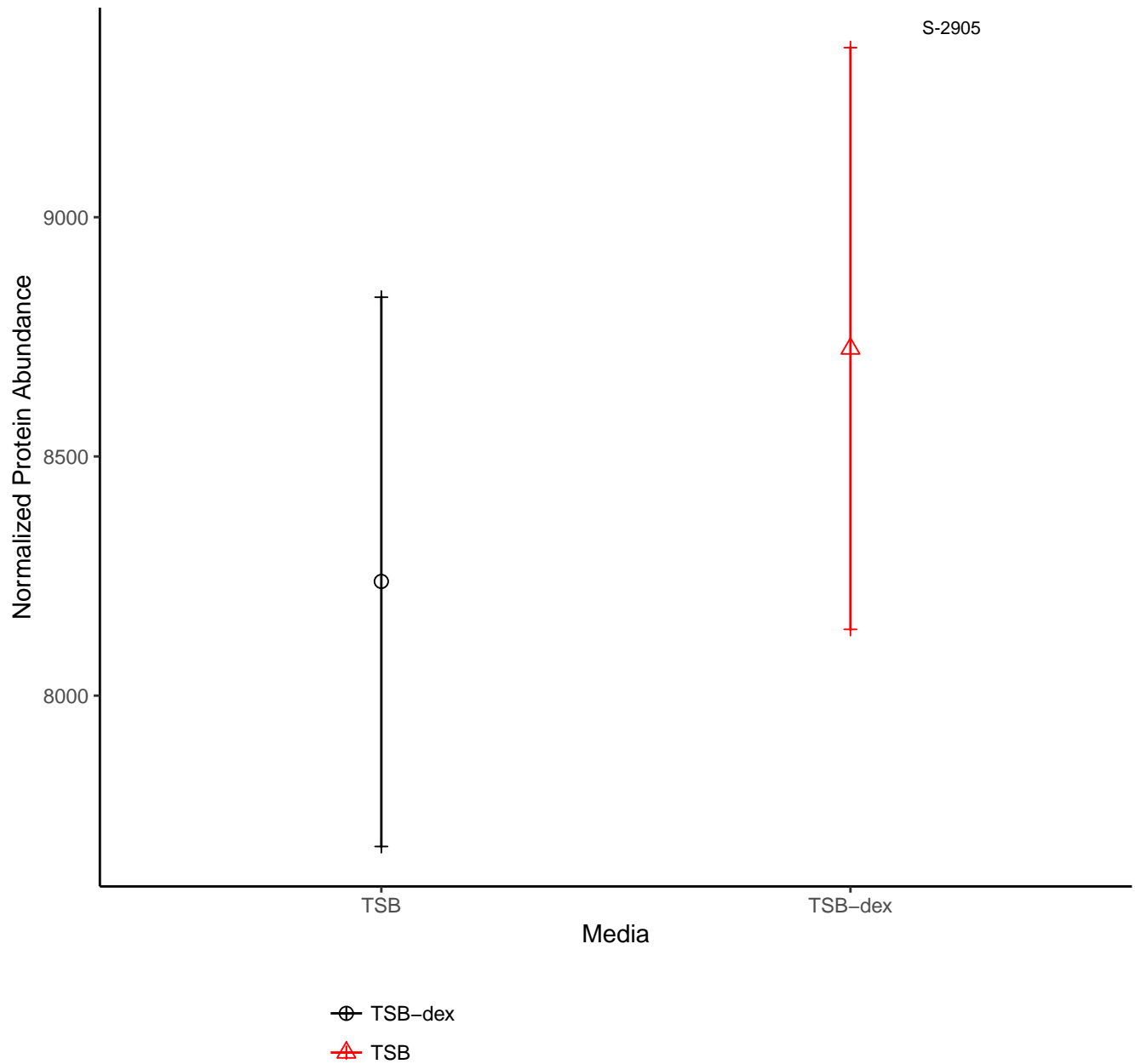


⊕ TSB-dex

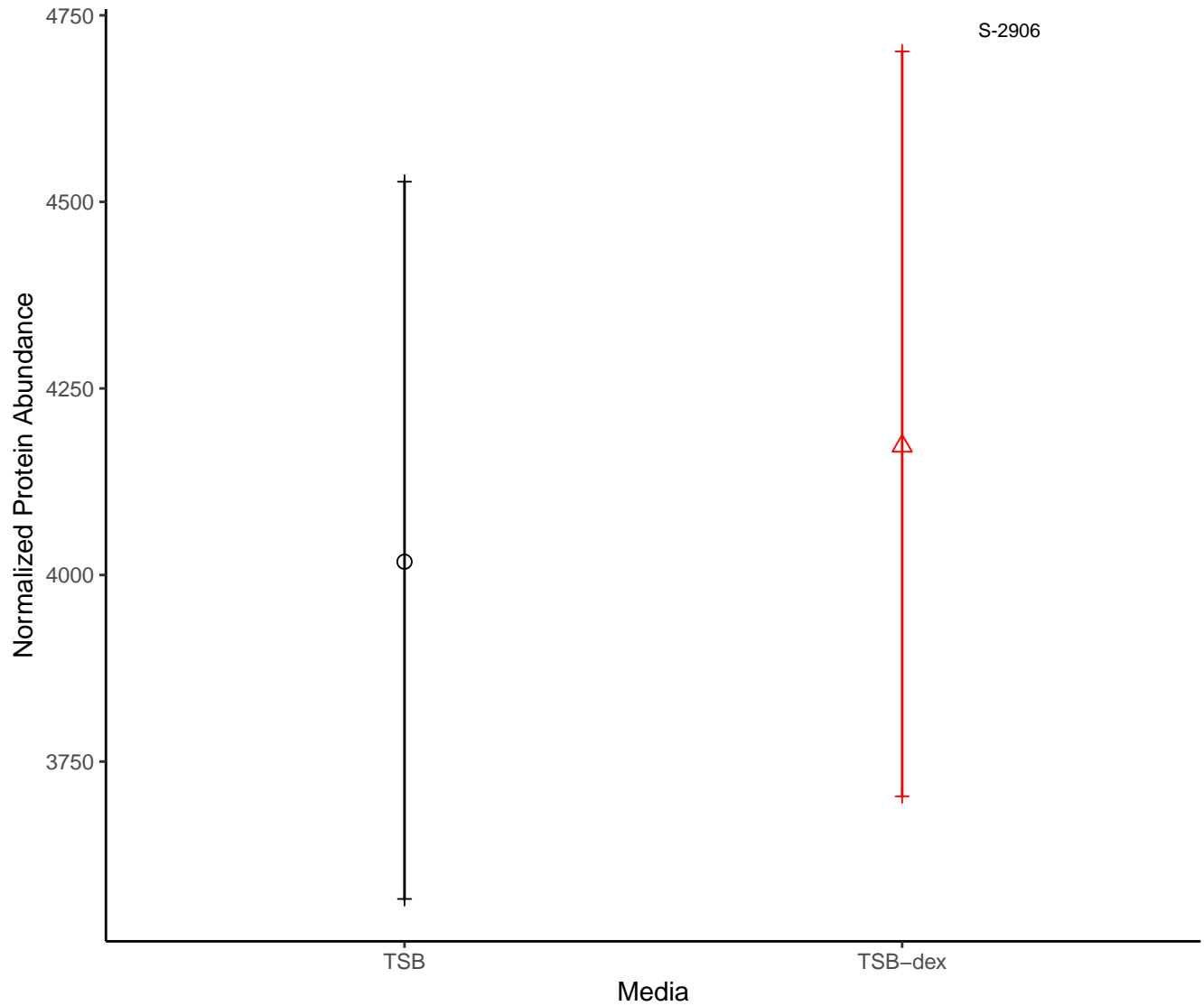
△ TSB



# SYA\_STAAM



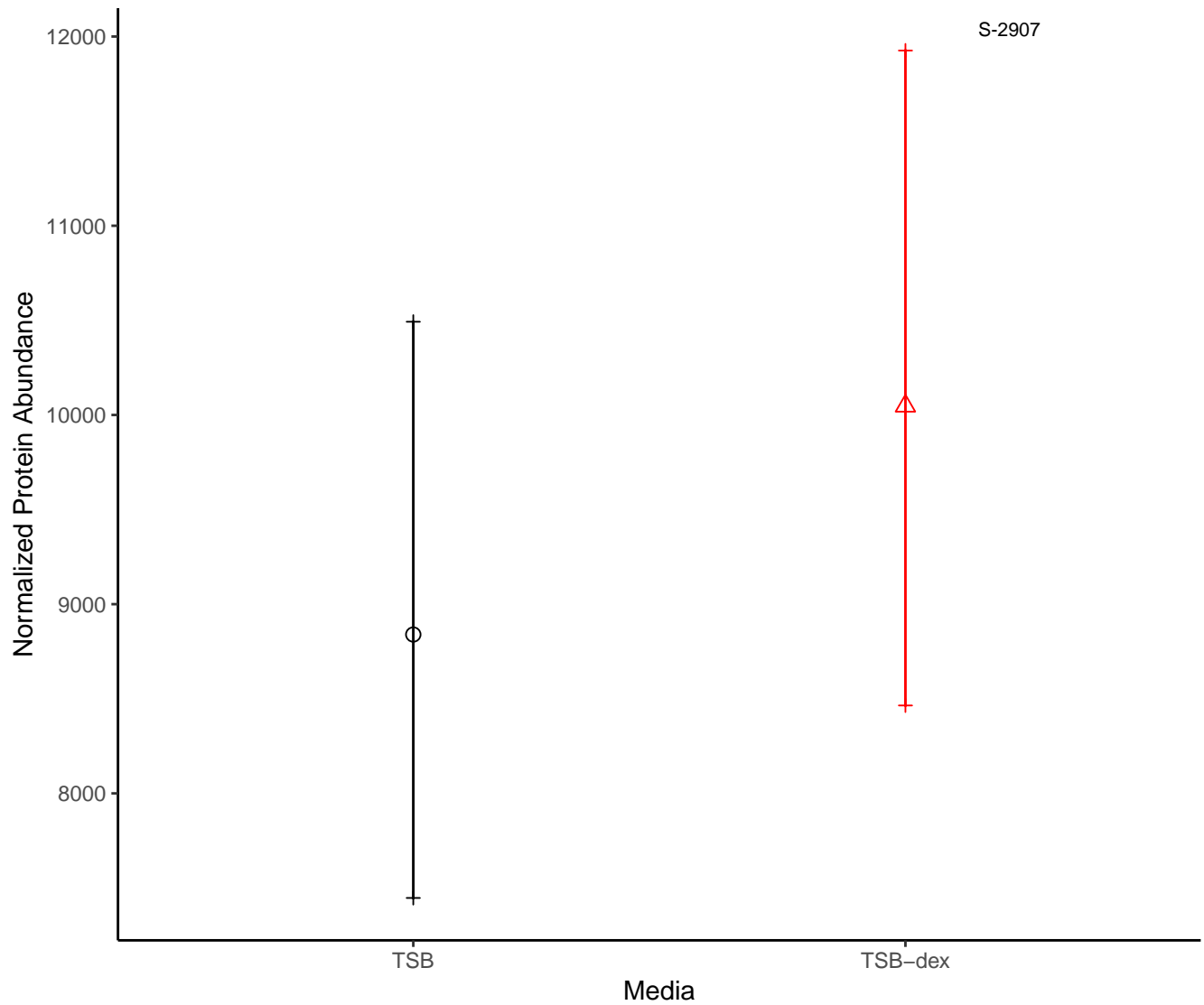
# SYC\_STAAM



⊕ TSB-dex

△ TSB

# SYD\_STAAM

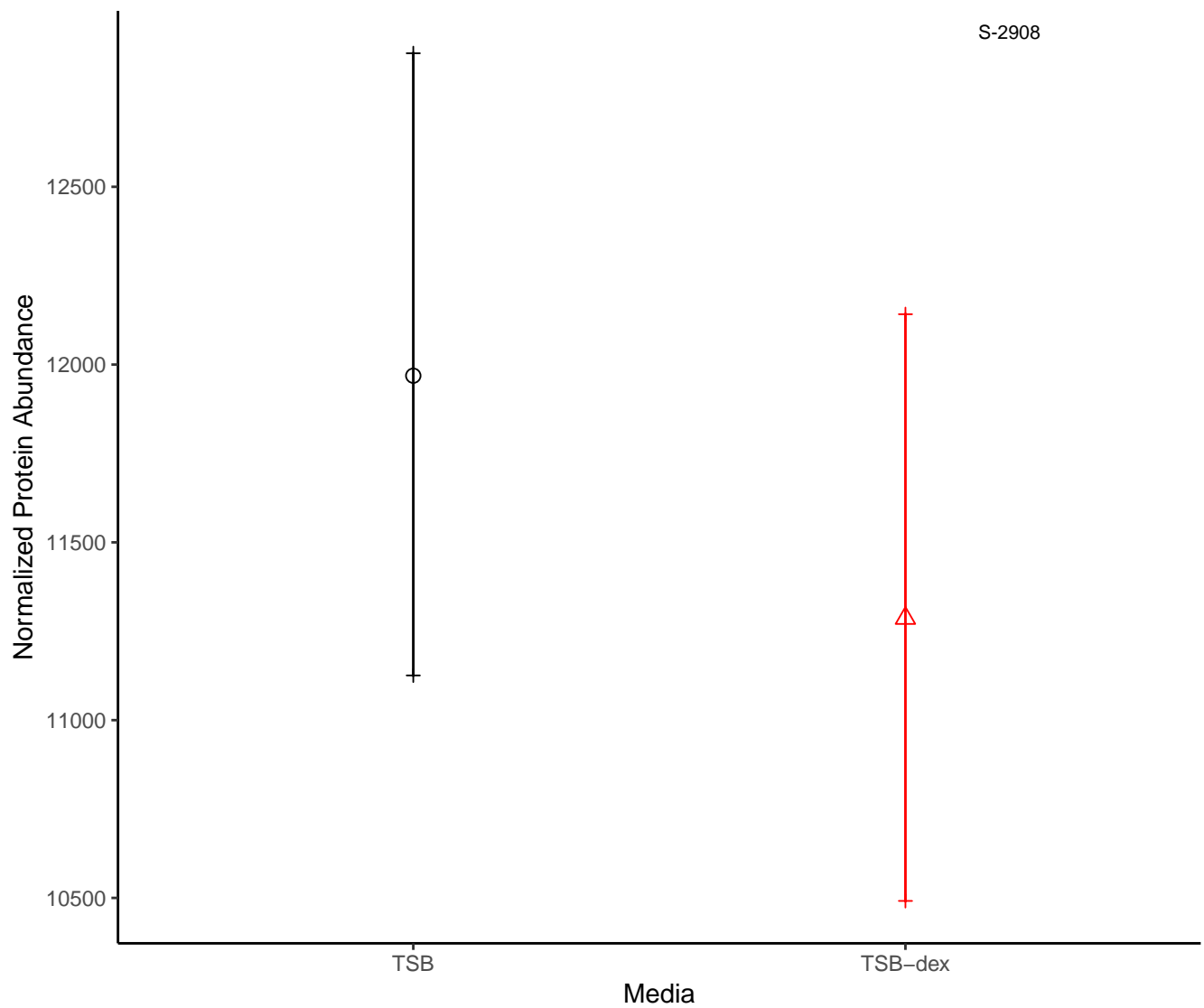


⊕ TSB-dex

△ TSB

# SYE\_STAAM

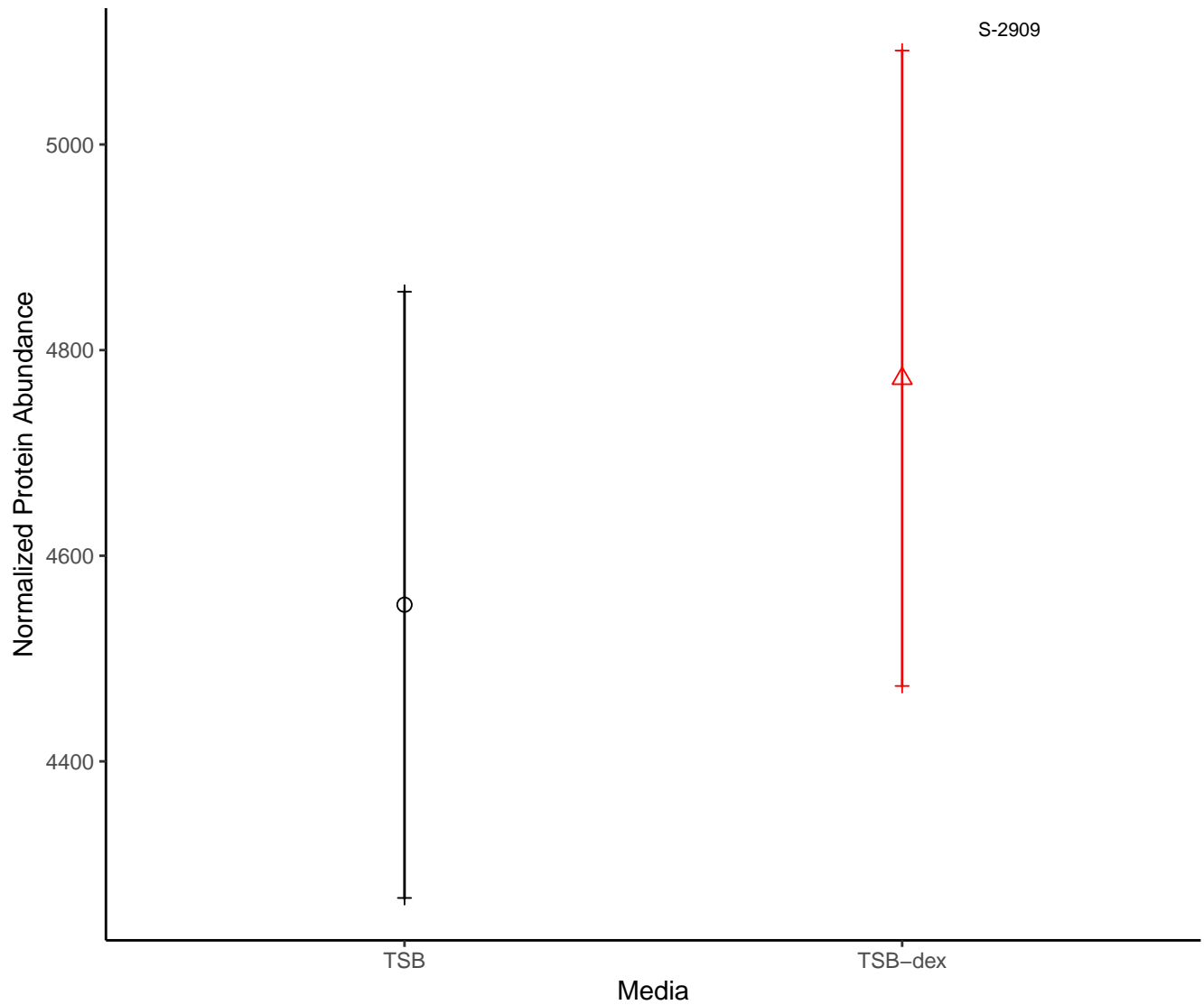
S-2908



● TSB-dex

▲ TSB

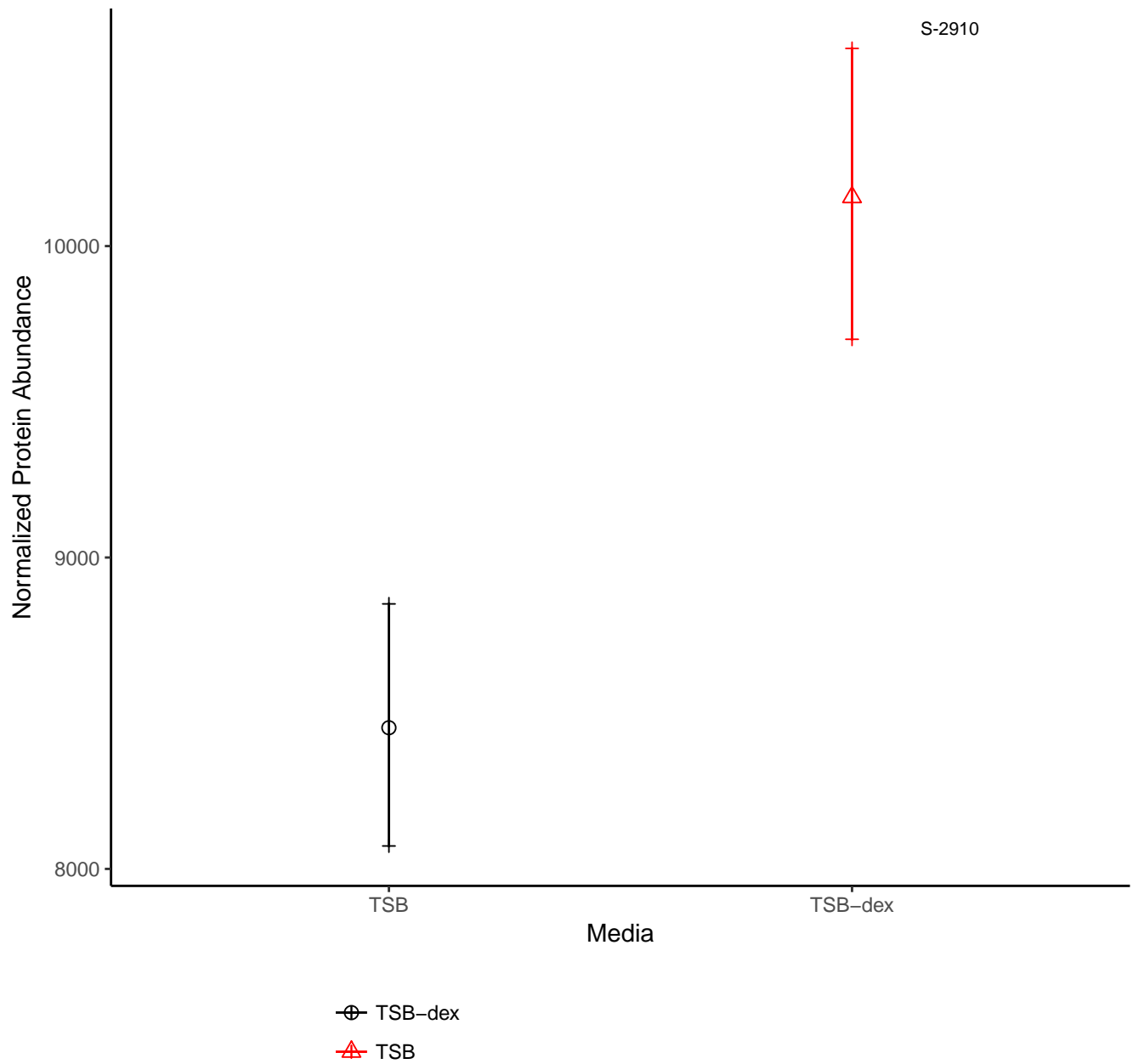
# SYFB\_STAAM



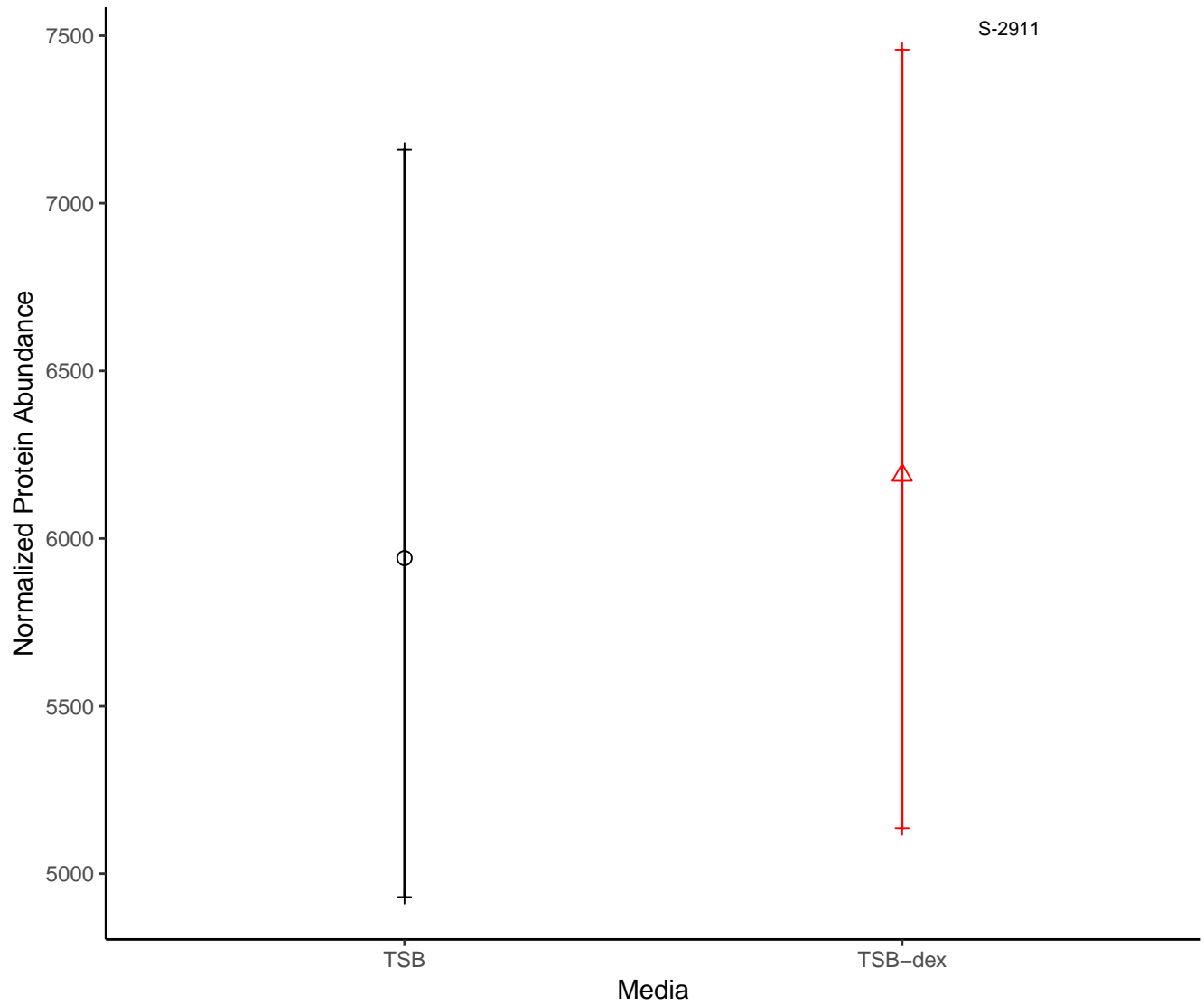
⊕ TSB-dex

△ TSB

# SYG\_STAAM



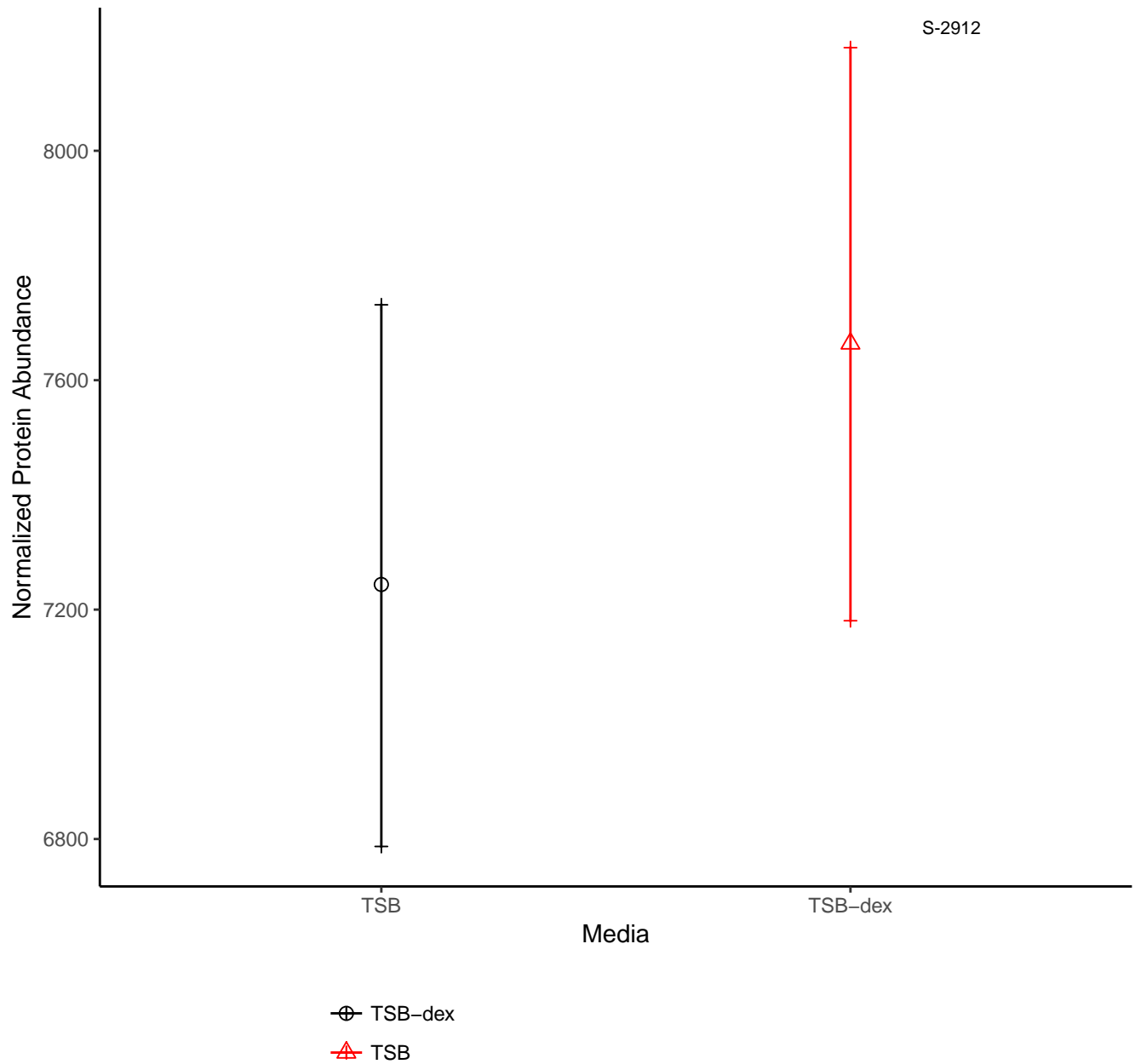
# SYH\_STAAM



⊕ TSB-dex

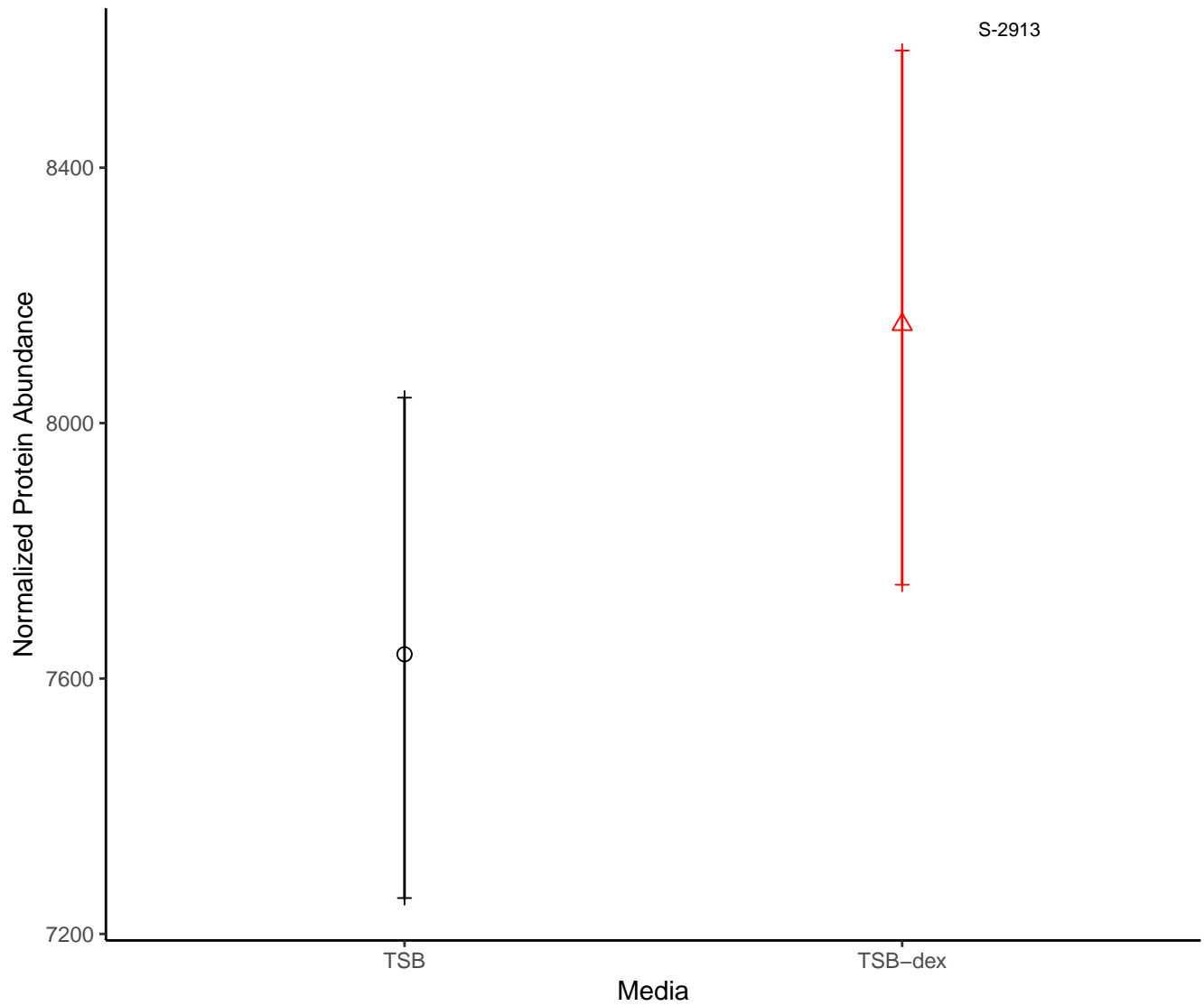
△ TSB

# SYI\_STAAM





# SYK\_STAAM

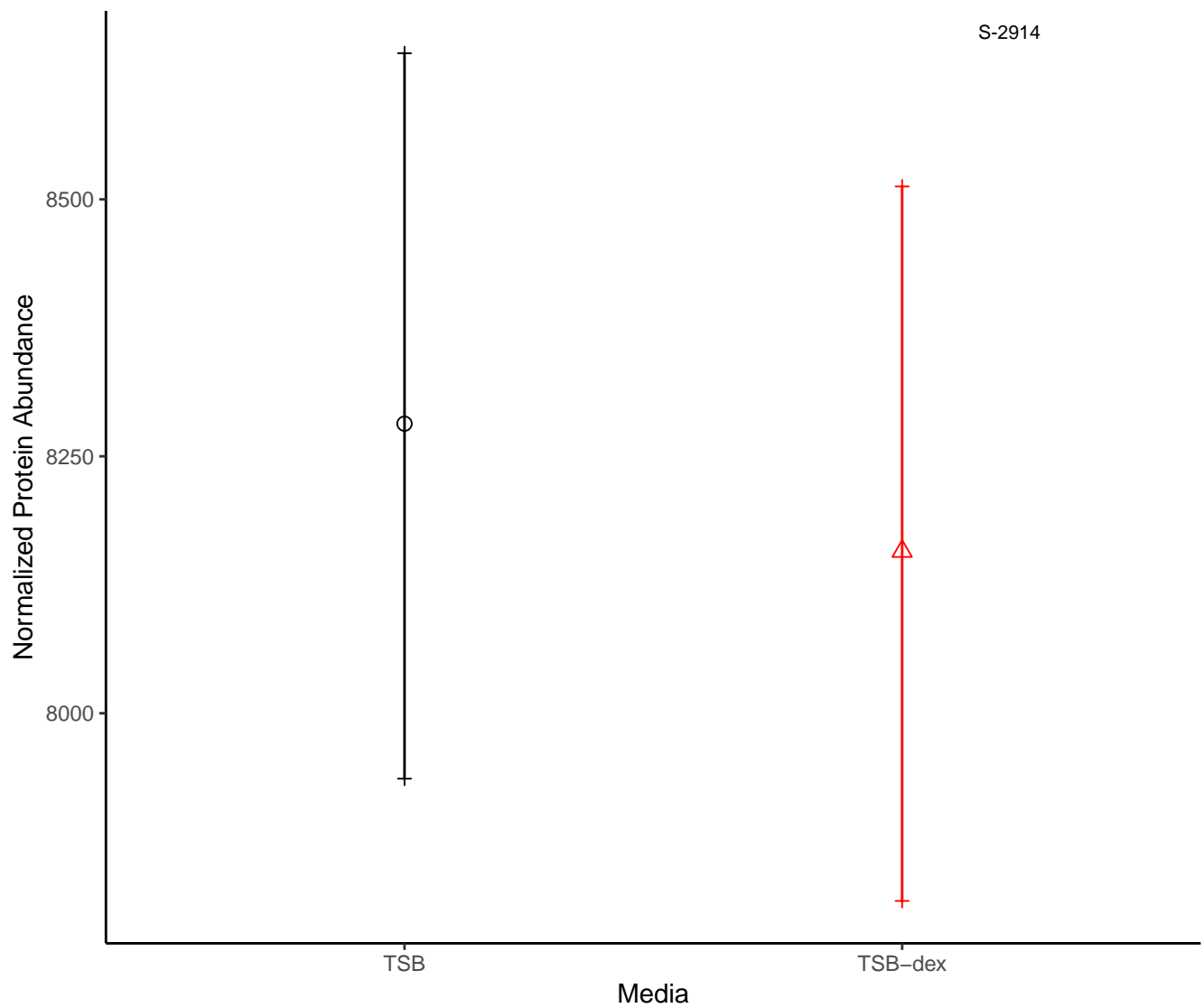


⊕ TSB-dex

△ TSB

# SYM\_STAAM

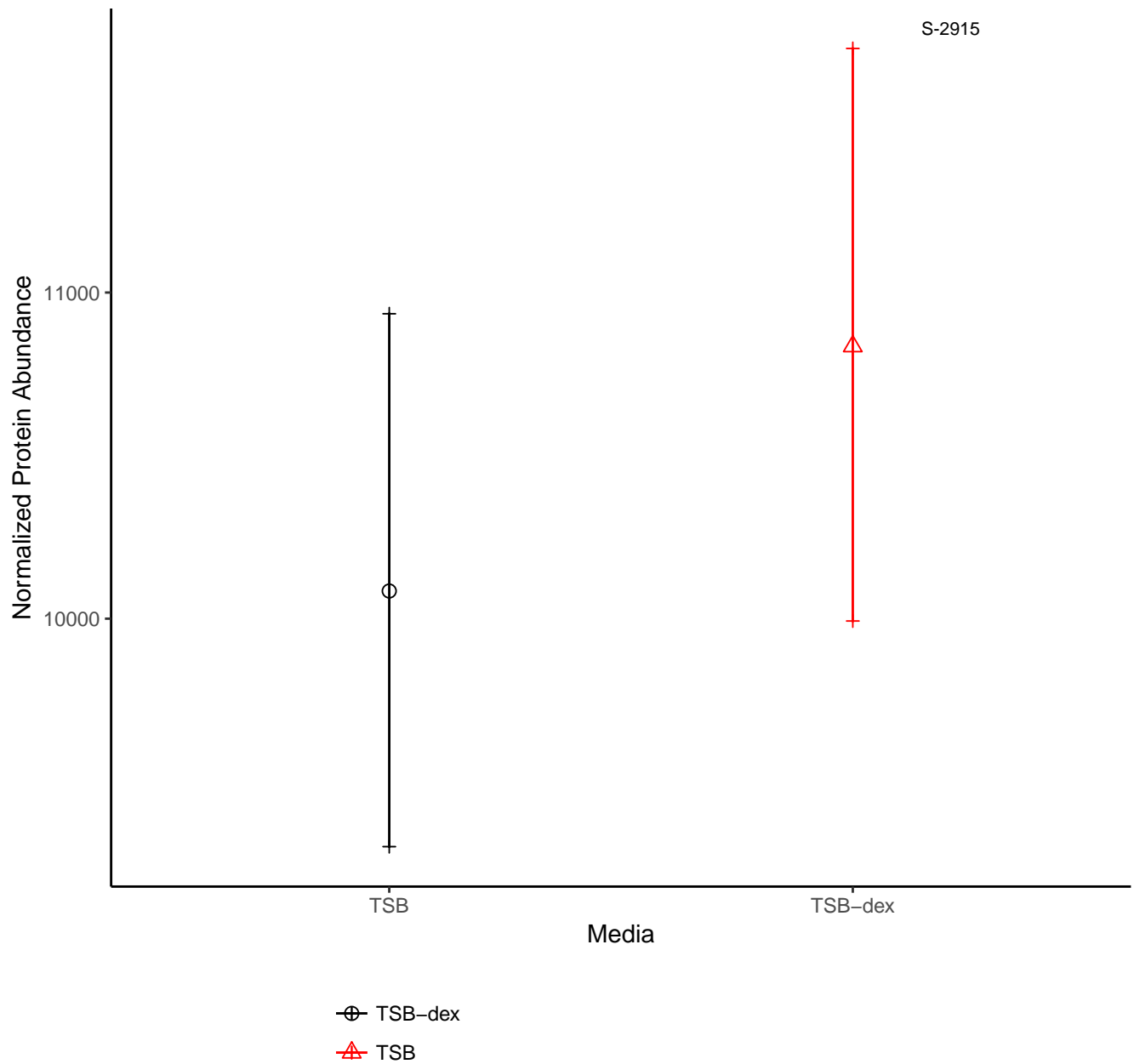
S-2914



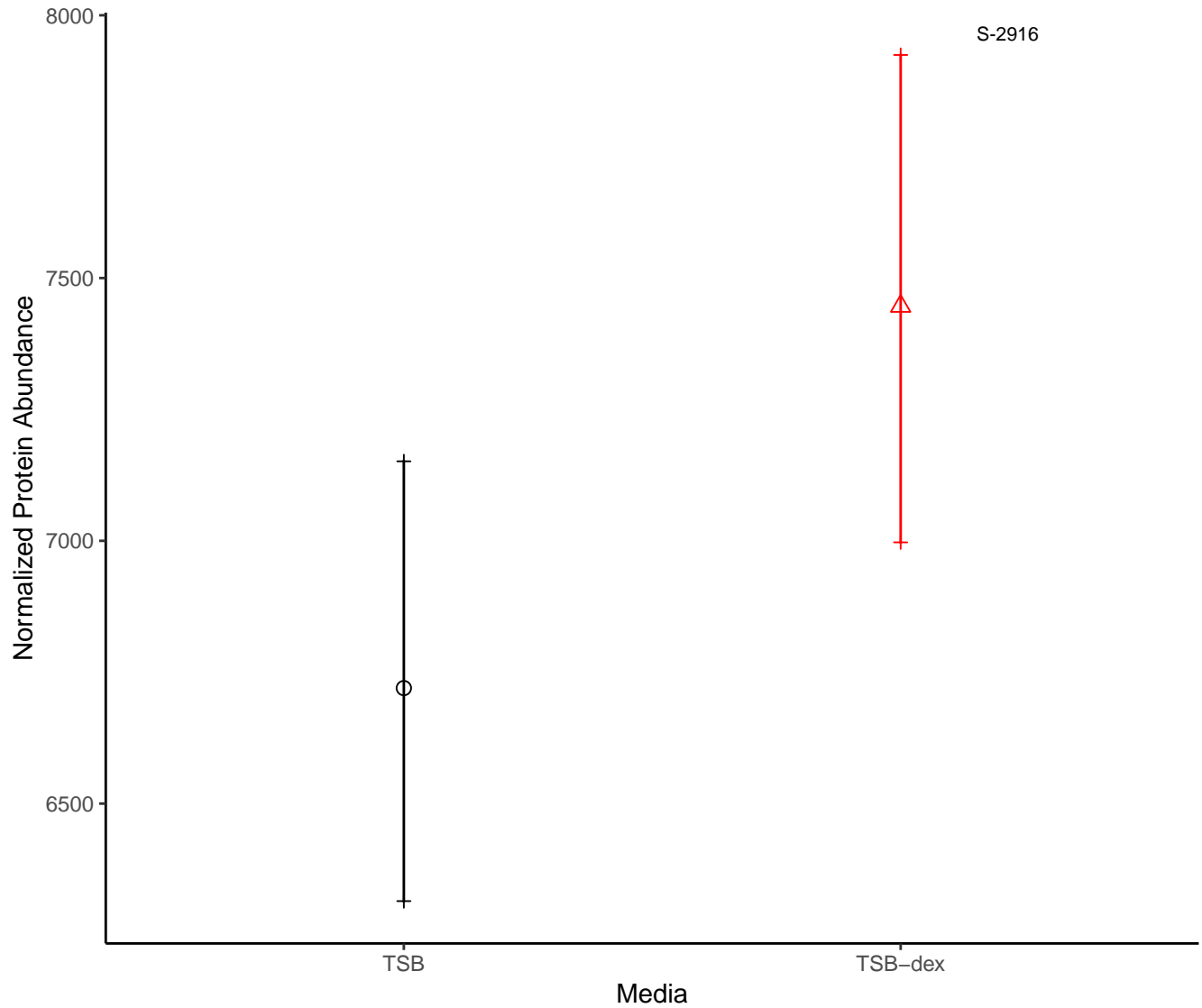
⊕ TSB-dex

△ TSB

# SYN\_STAAM



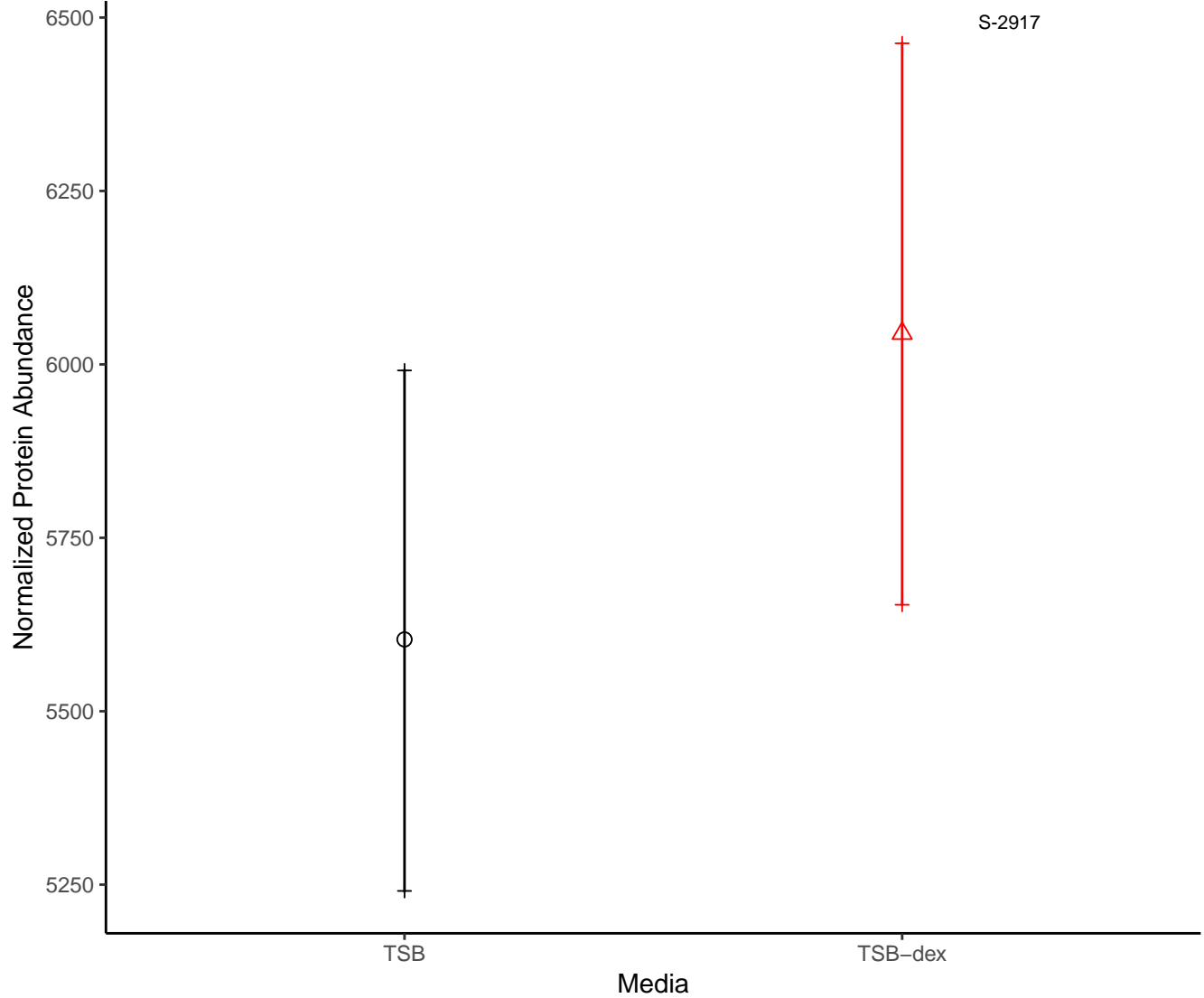
# SYP\_STAAM



⊕ TSB-dex

△ TSB

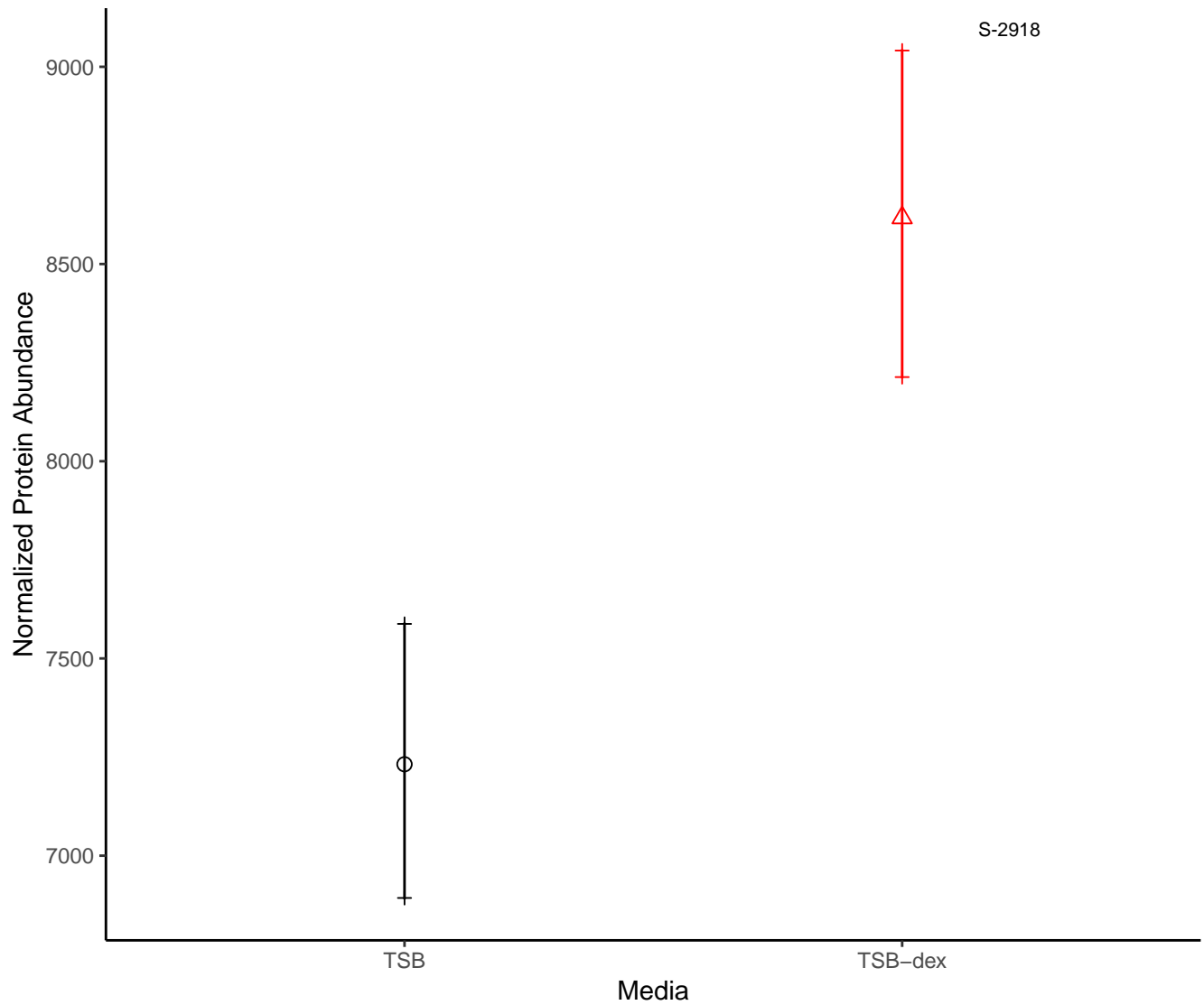
# SYR\_STAAM



⊕ TSB-dex

△ TSB

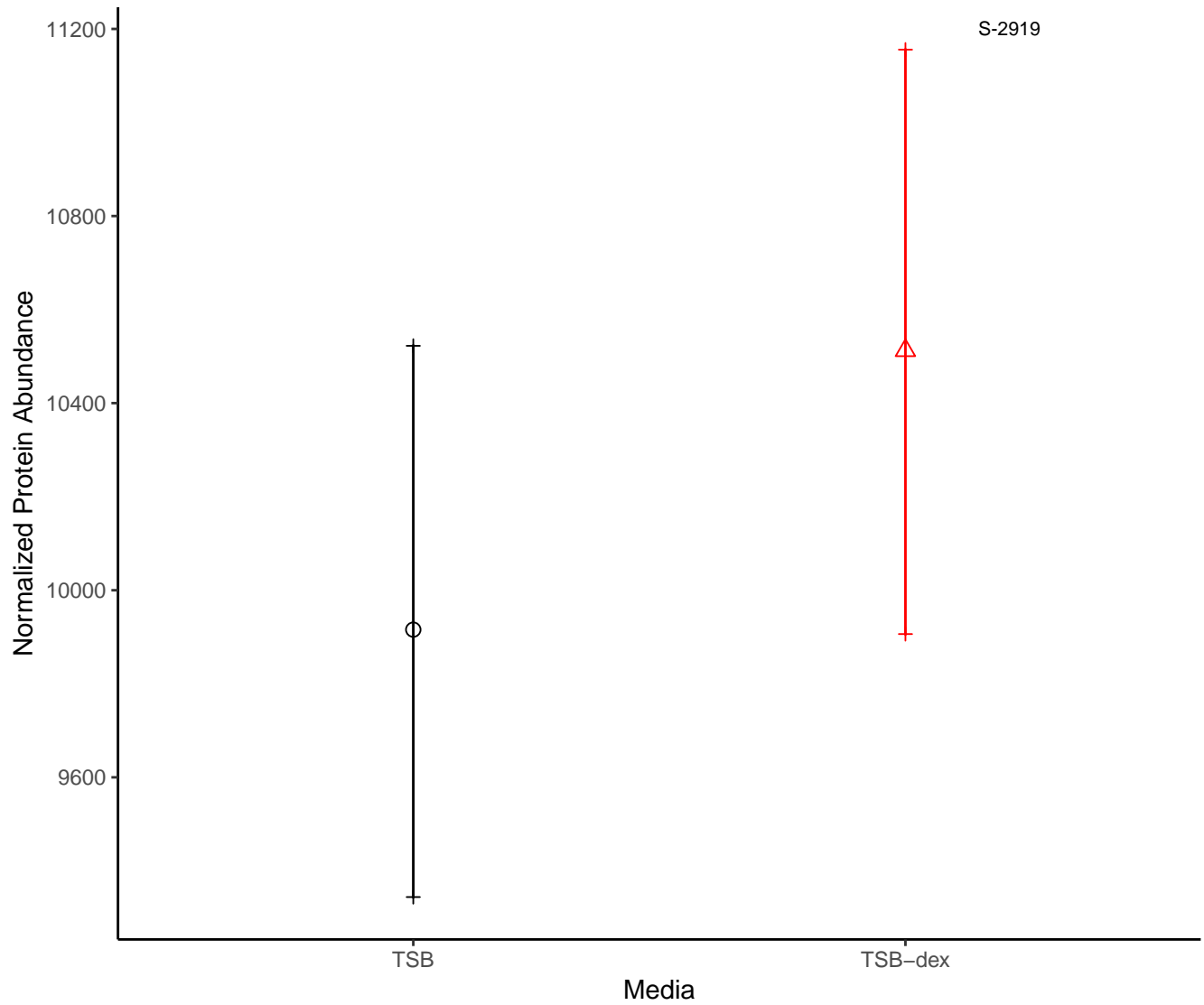
# SYS\_STAAM



⊕ TSB-dex

△ TSB

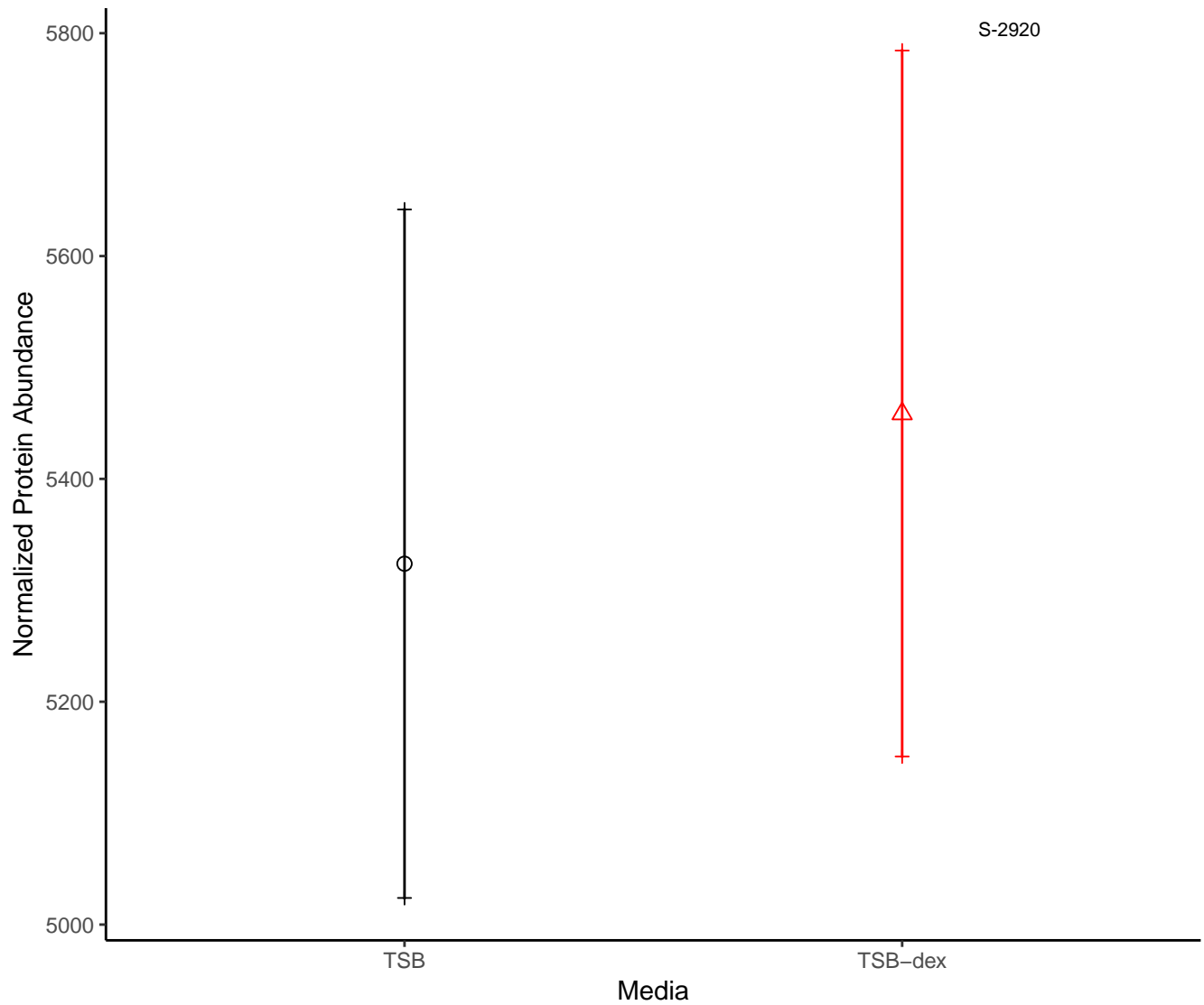
# SYT\_STAAM



⊖ TSB-dex

△ TSB

# SYV\_STAAM

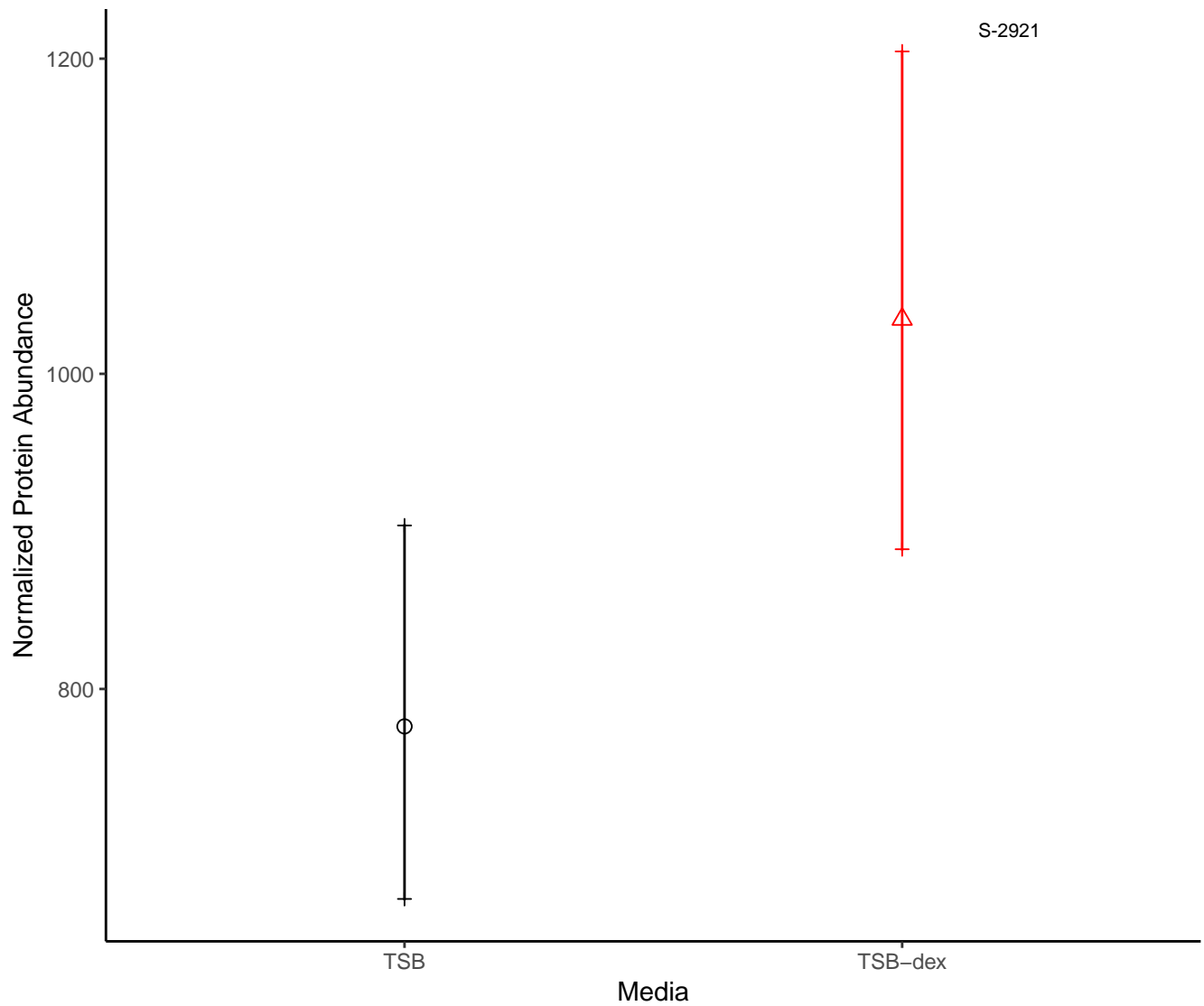


⊕ TSB-dex

△ TSB



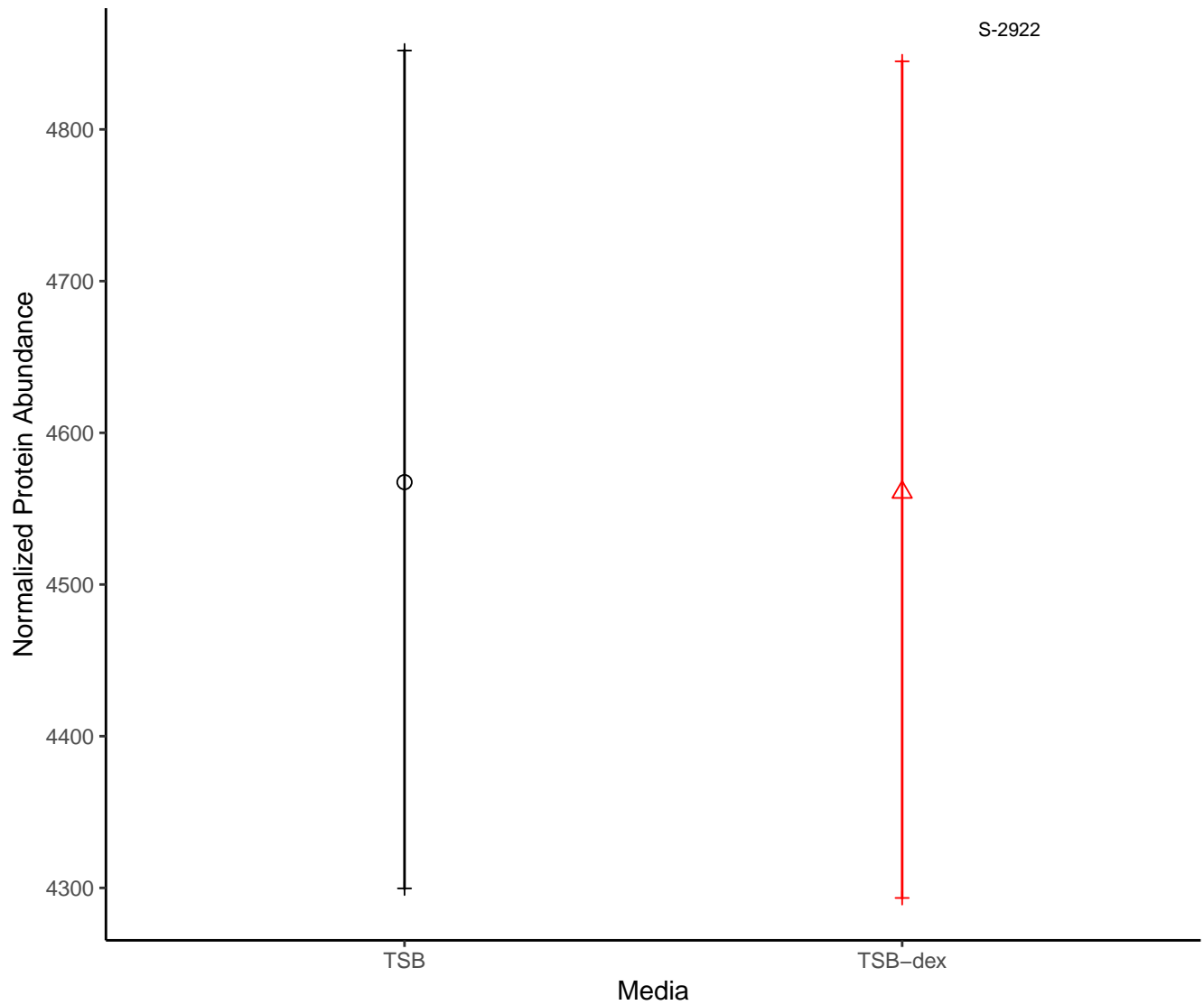
# SYW\_STAAM



⊕ TSB-dex

△ TSB

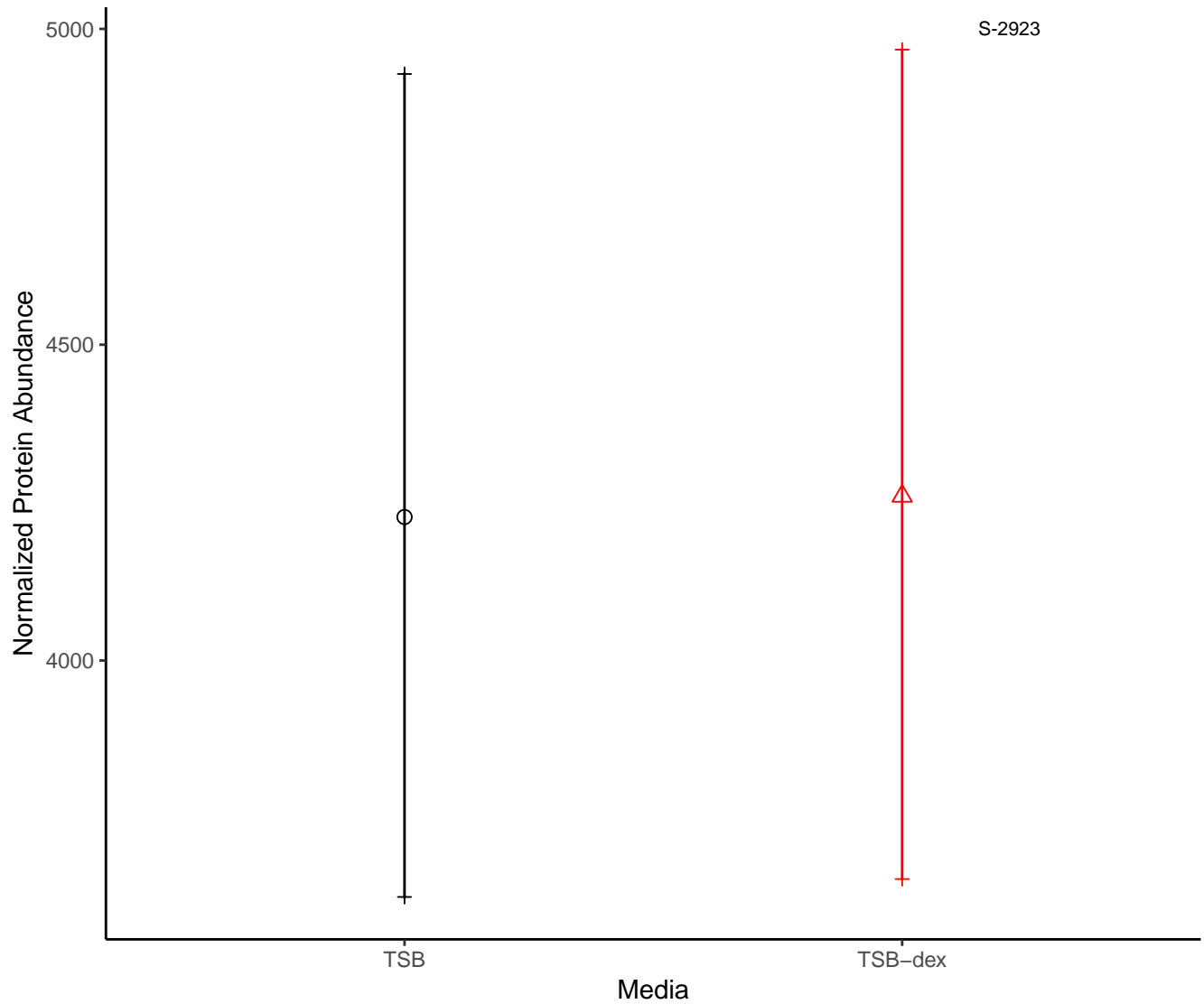
# SYT\_STAAM



⊕ TSB-dex

△ TSB

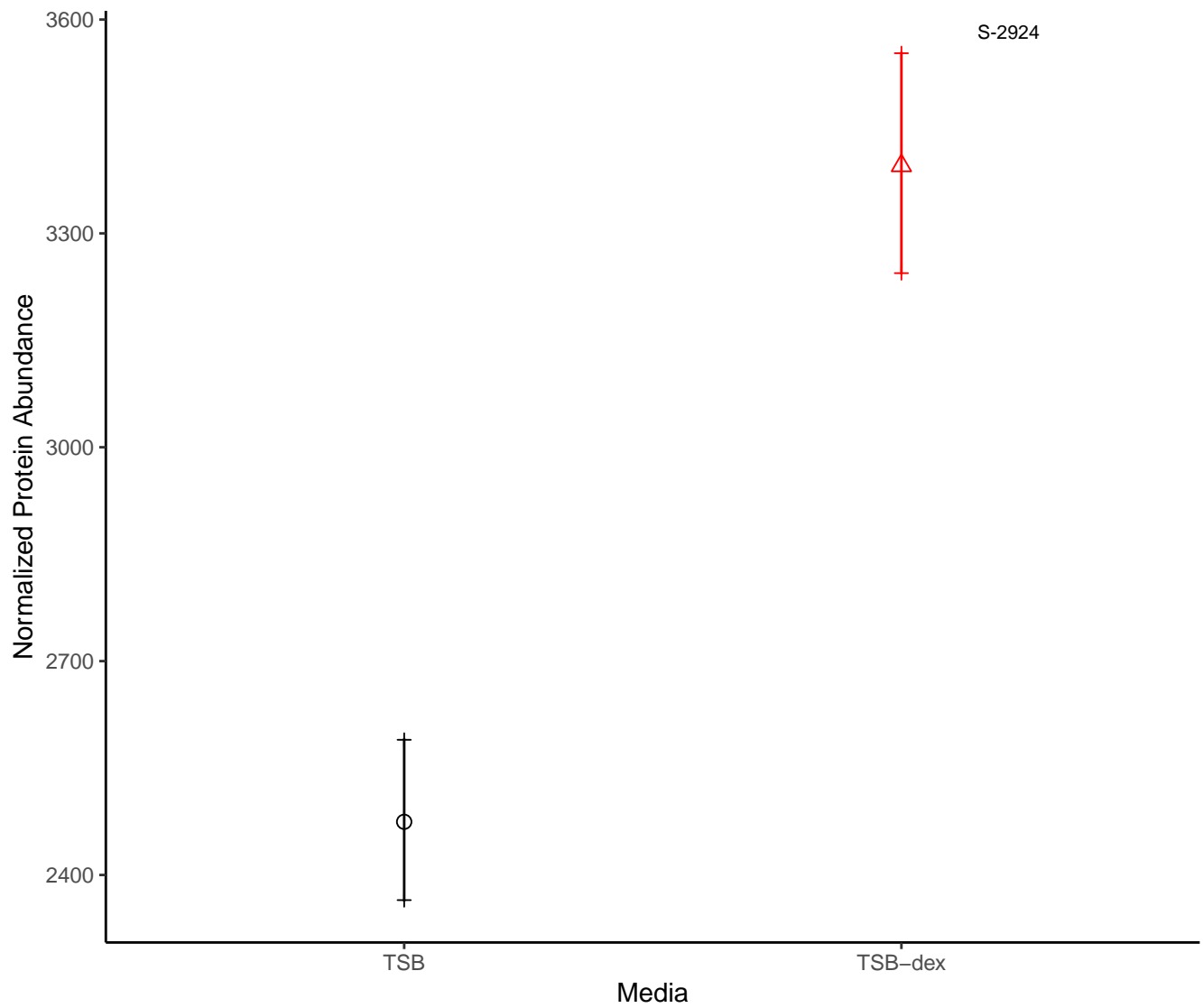
# T431\_STAAM



⊕ TSB-dex

△ TSB

# TADA\_STAAM

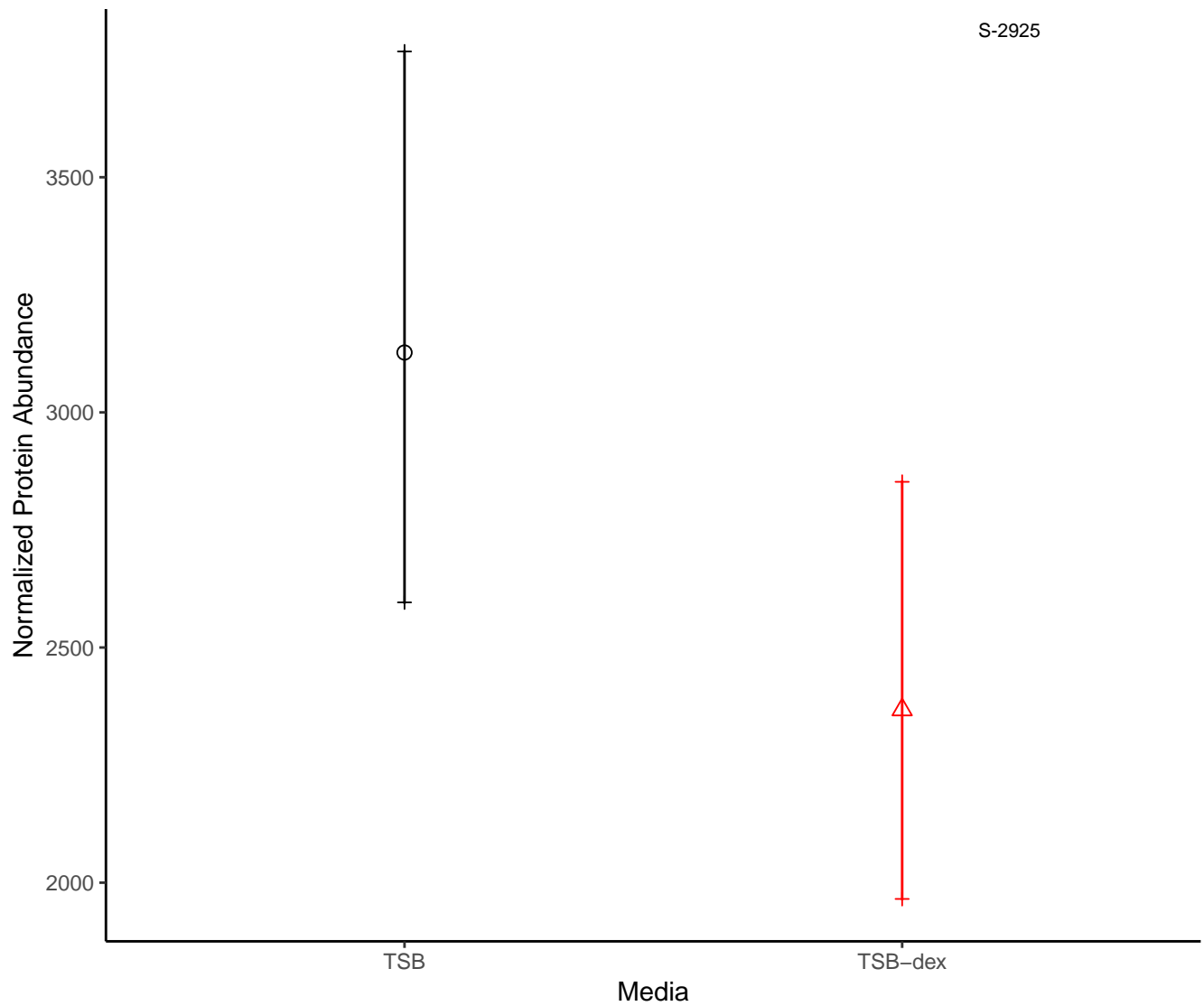


⊕ TSB-dex

△ TSB

# TAGA\_STAAM

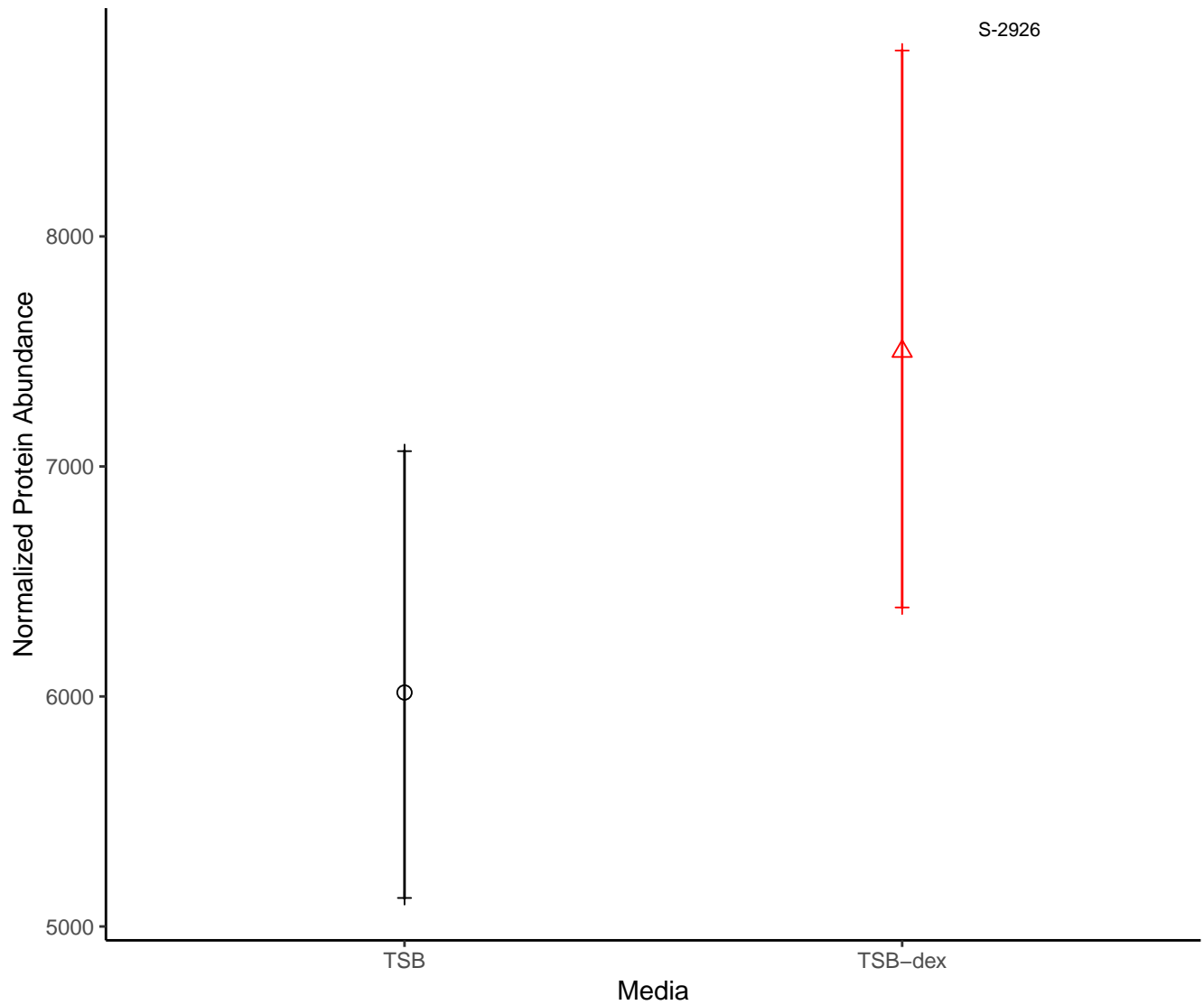
S-2925



⊕ TSB-dex

△ TSB

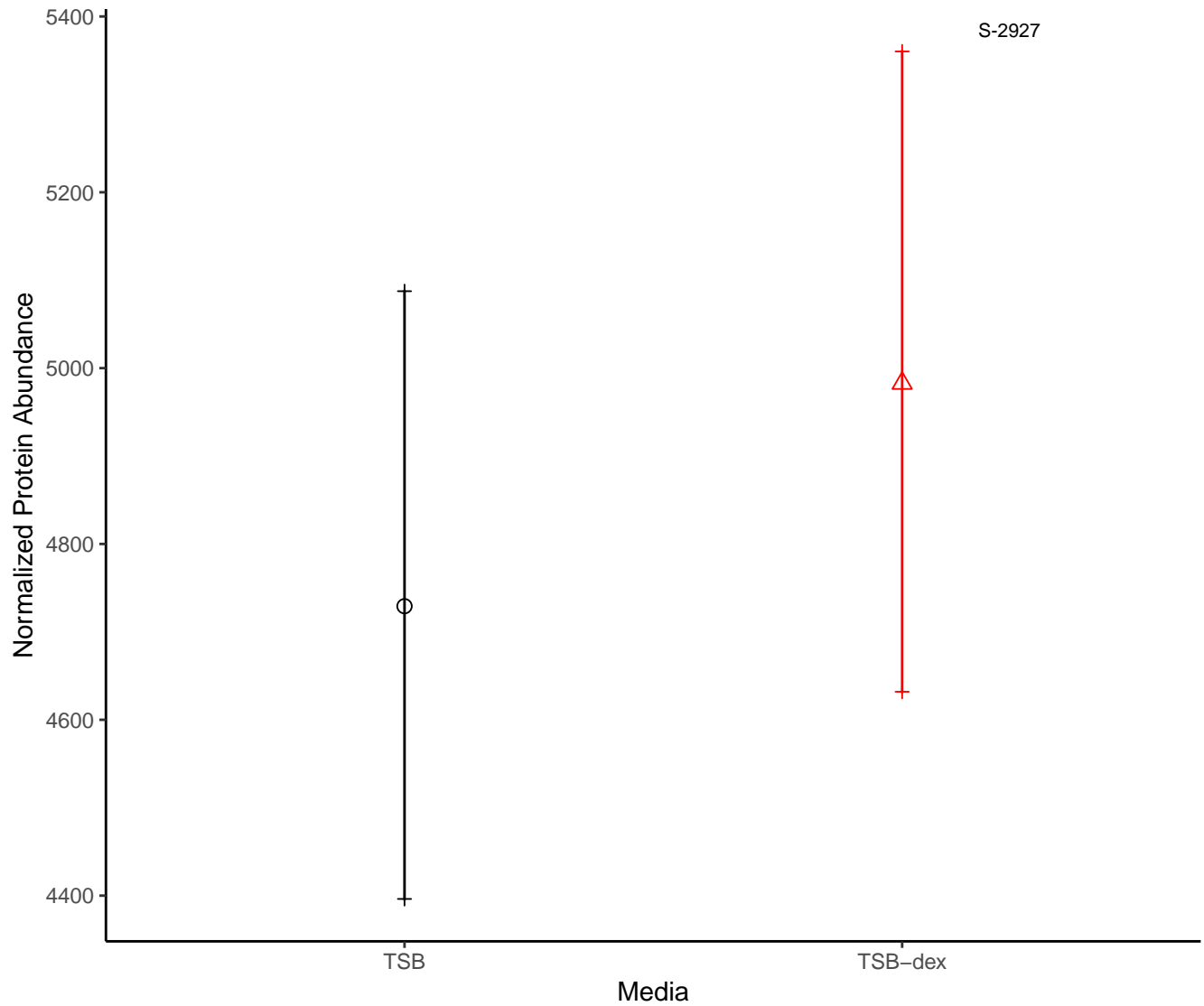
# TDCB\_STAAM



⊕ TSB-dex

△ TSB

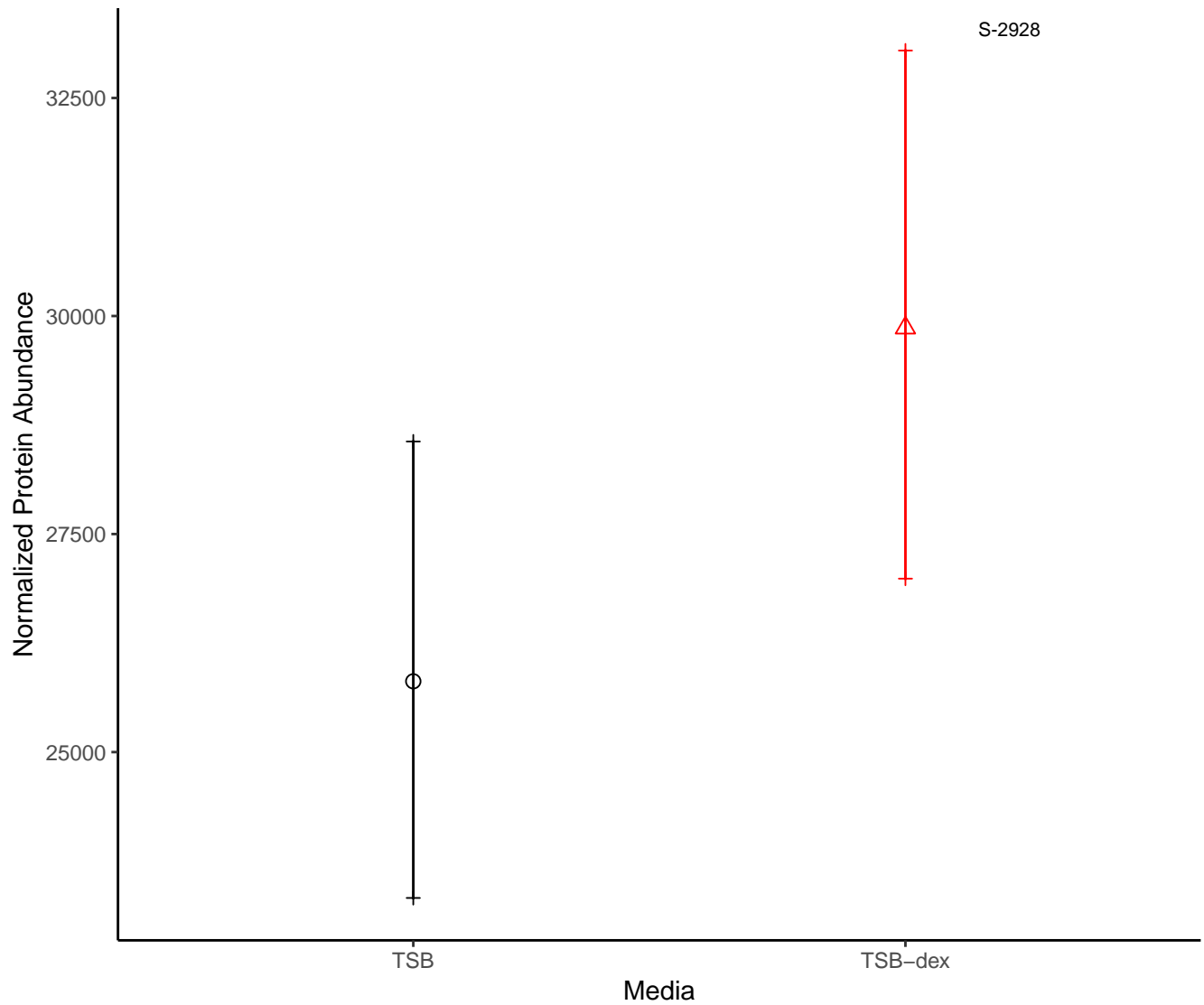
# TELL\_STAAM



⊕ TSB-dex

△ TSB

# THID\_STAAM

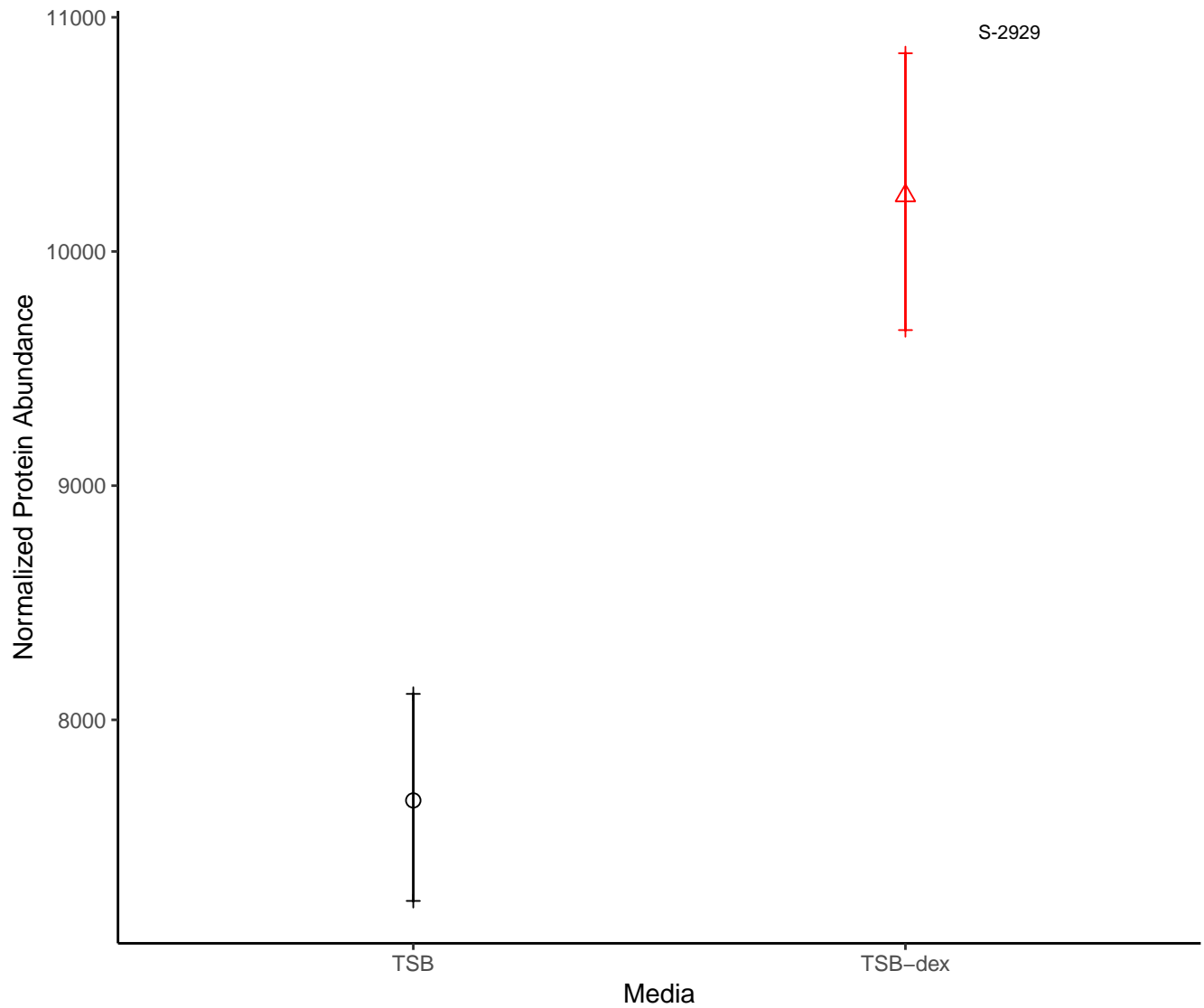


⊕ TSB-dex

△ TSB



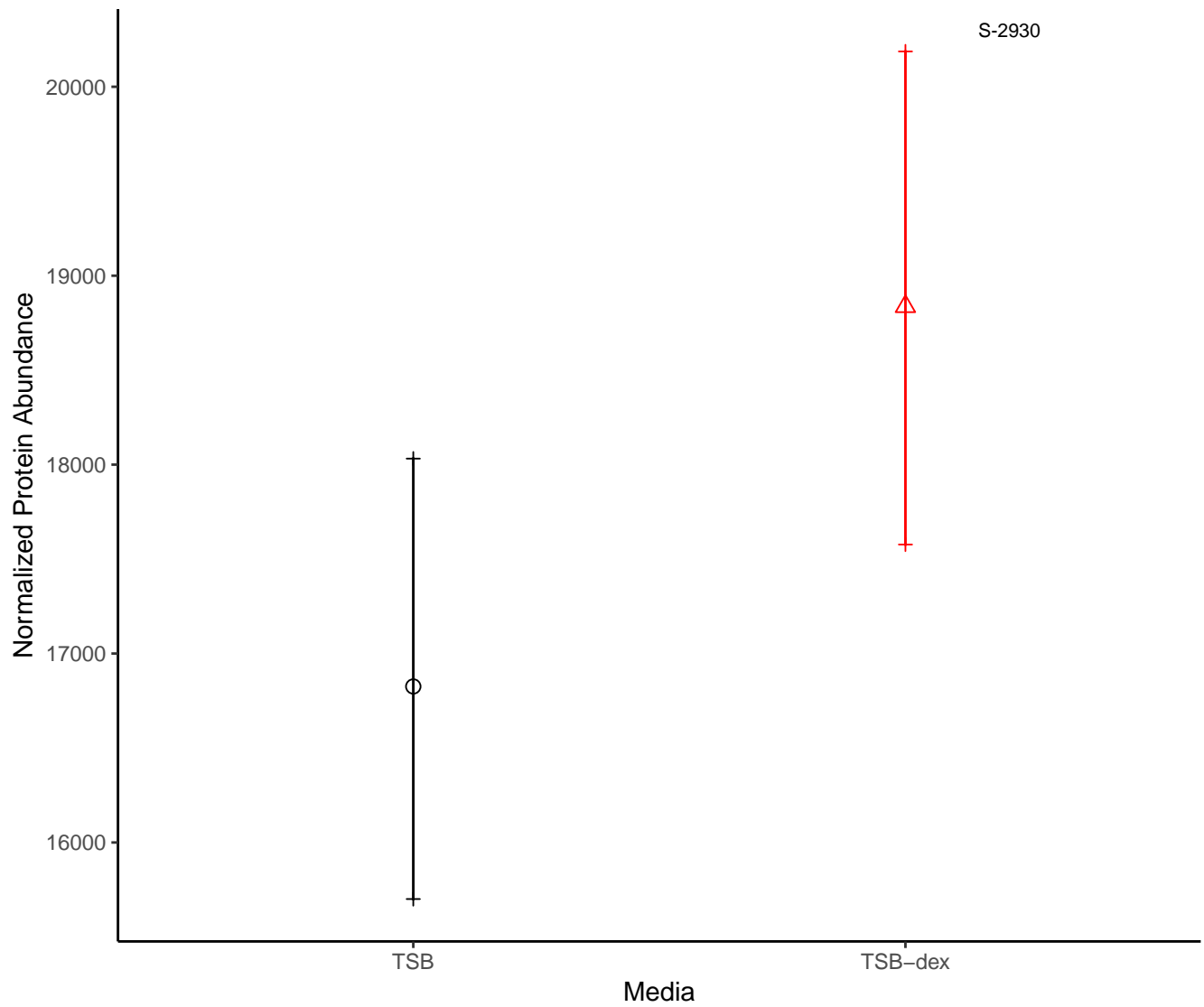
# THIM\_STAAM



⊕ TSB-dex

△ TSB

# THIO\_STAAM

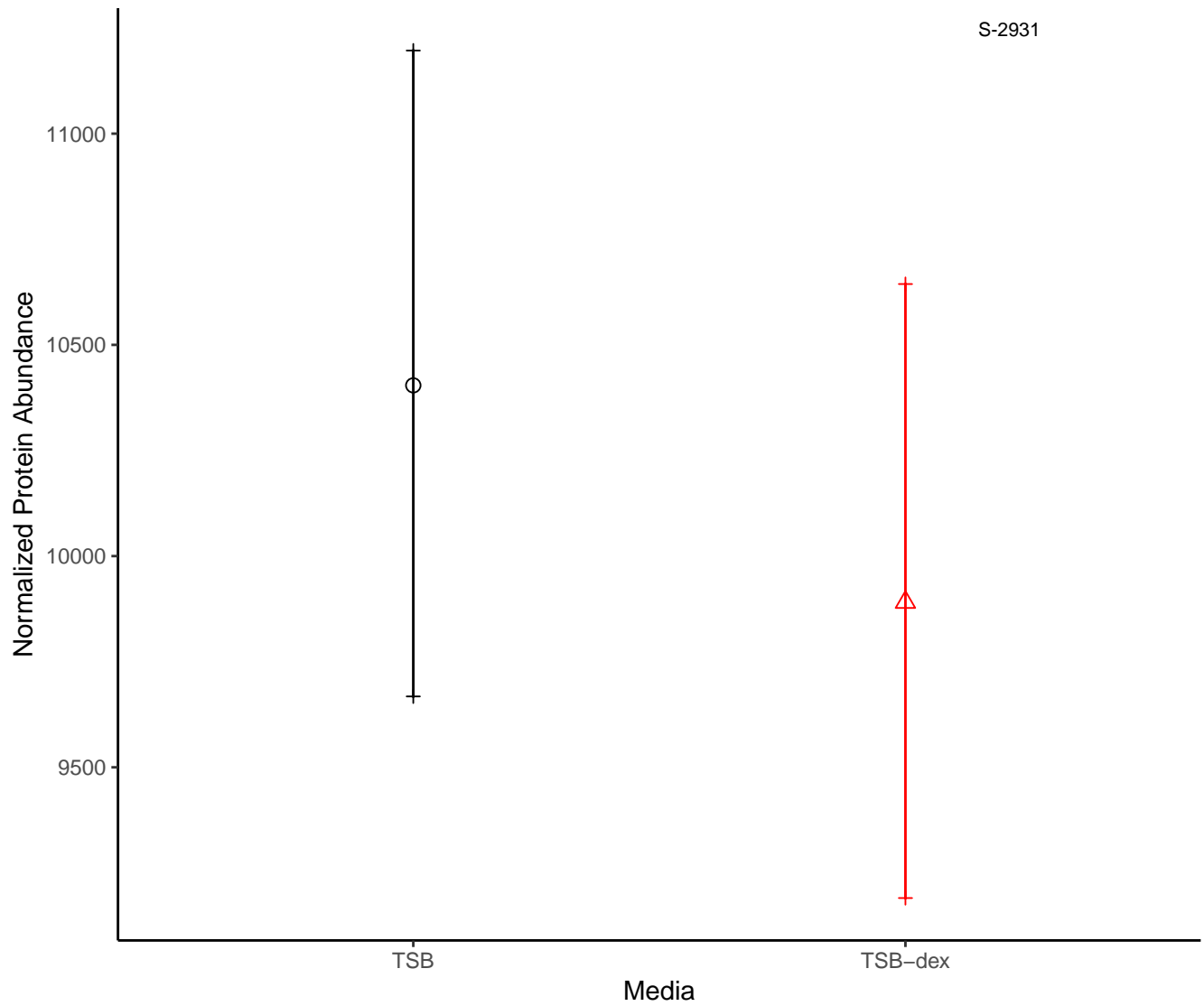


⊕ TSB-dex

△ TSB

# THLA\_STAAM

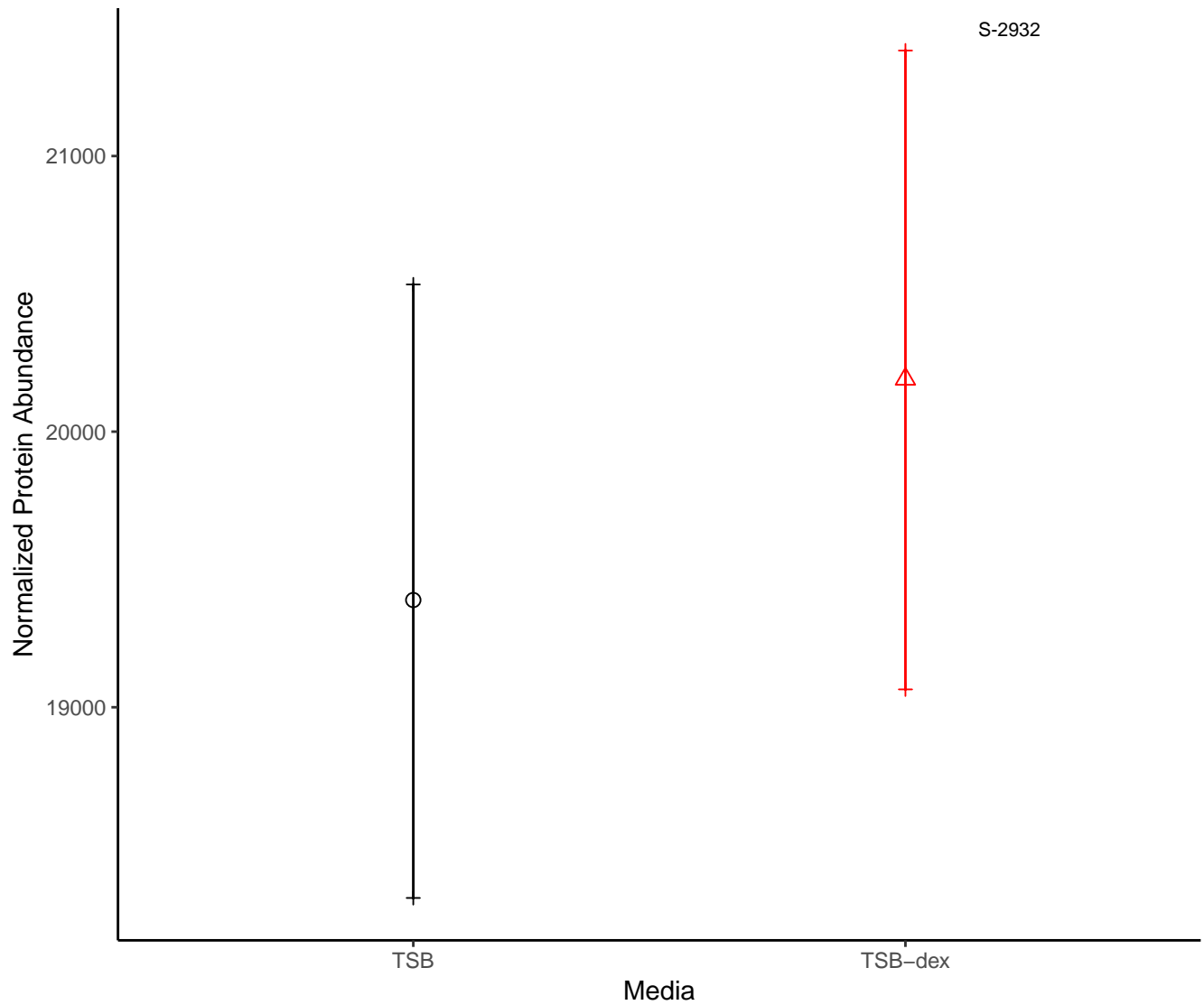
S-2931



⊕ TSB-dex

△ TSB

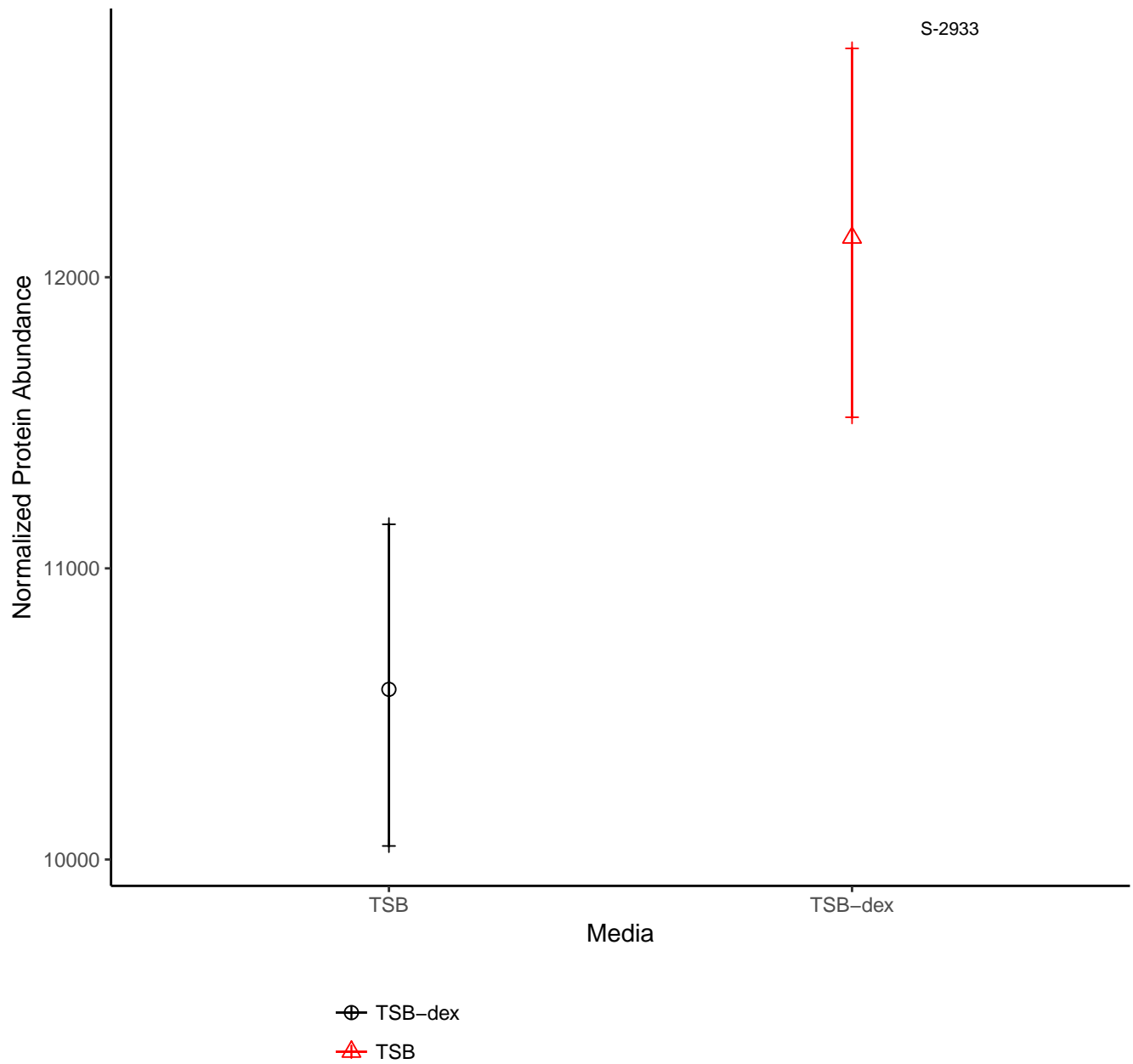
# TIG\_STAAM



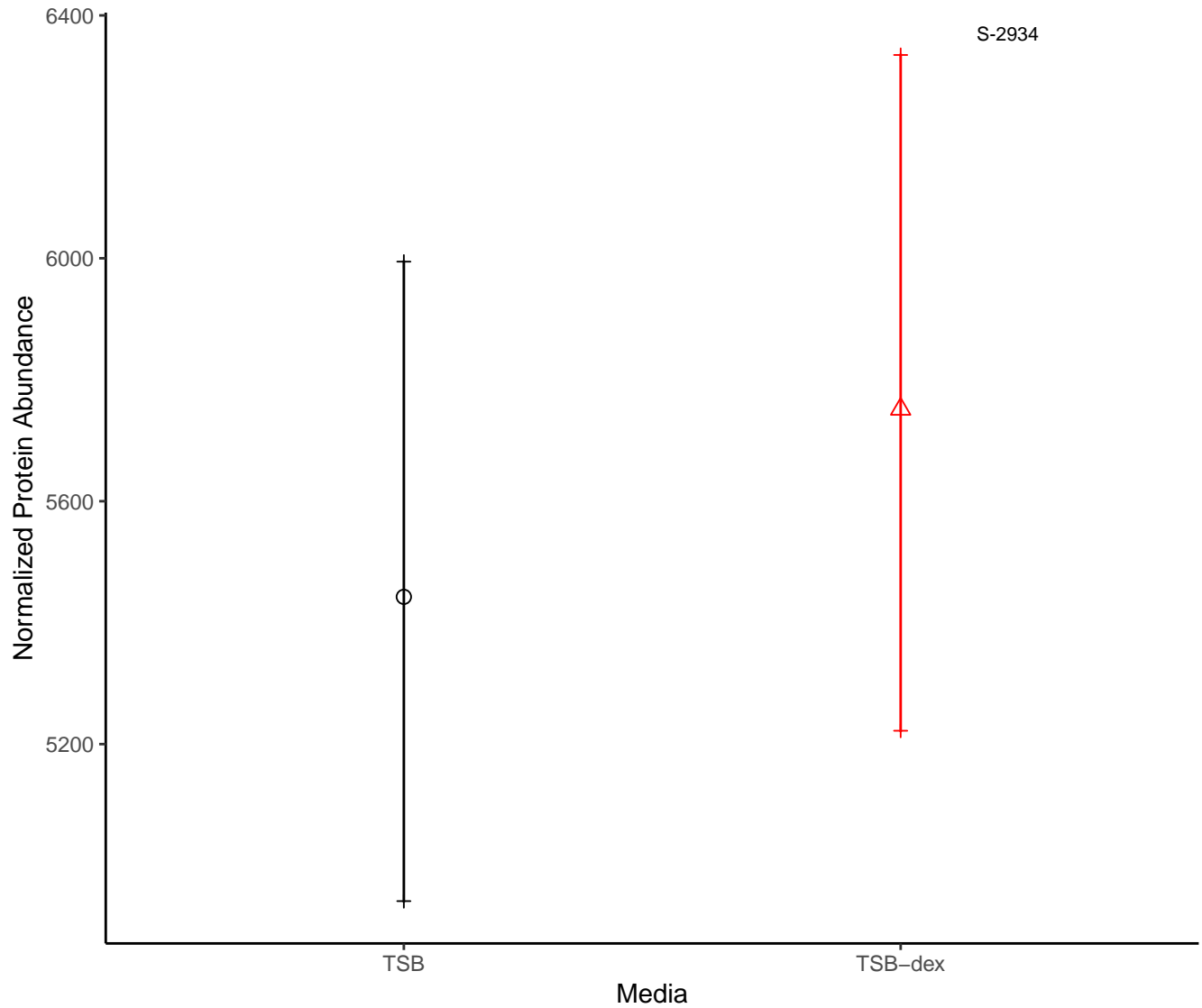
⊕ TSB-dex

△ TSB

# TKT\_STAAM



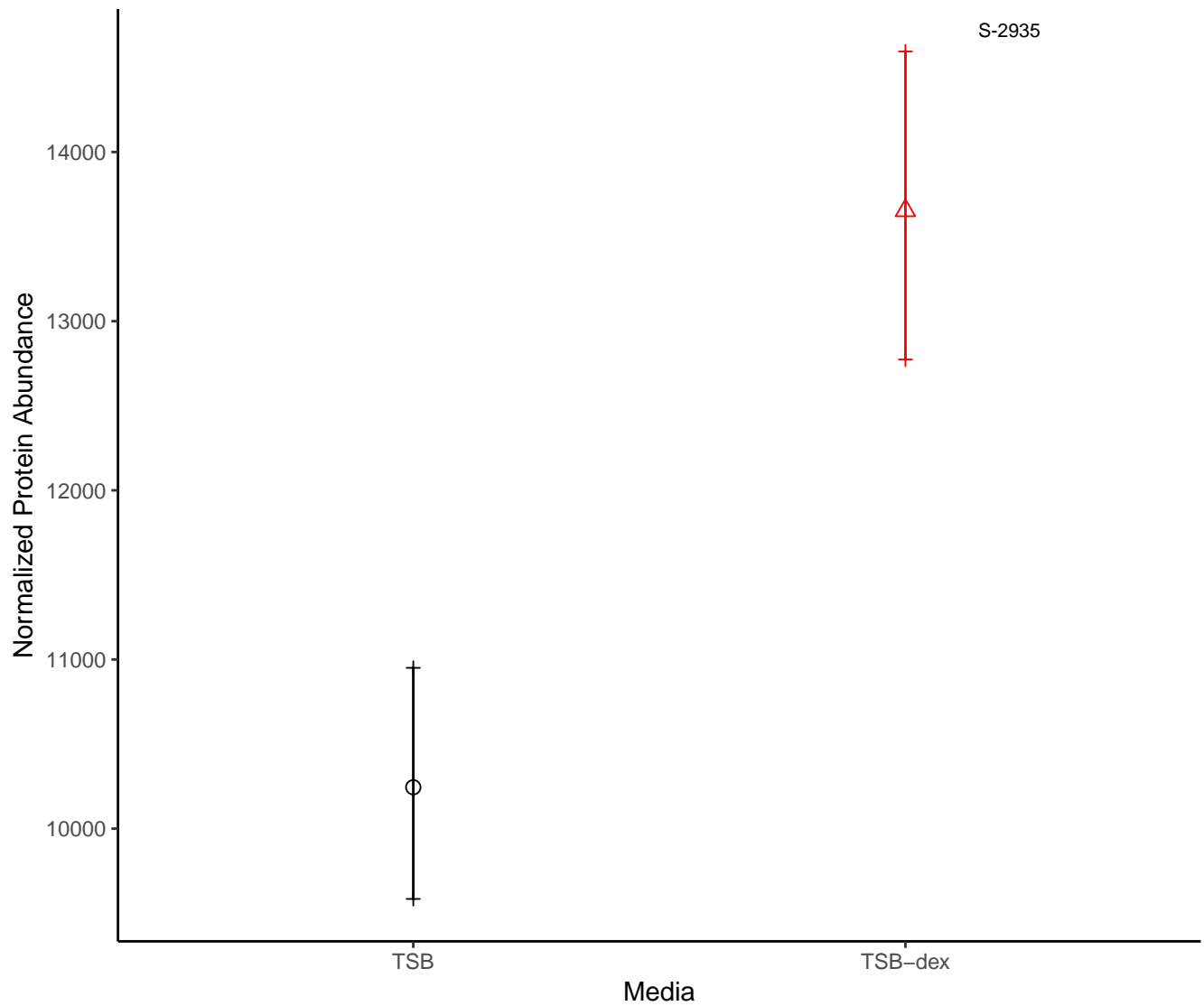
# TOP1\_STAAM



⊕ TSB-dex

△ TSB

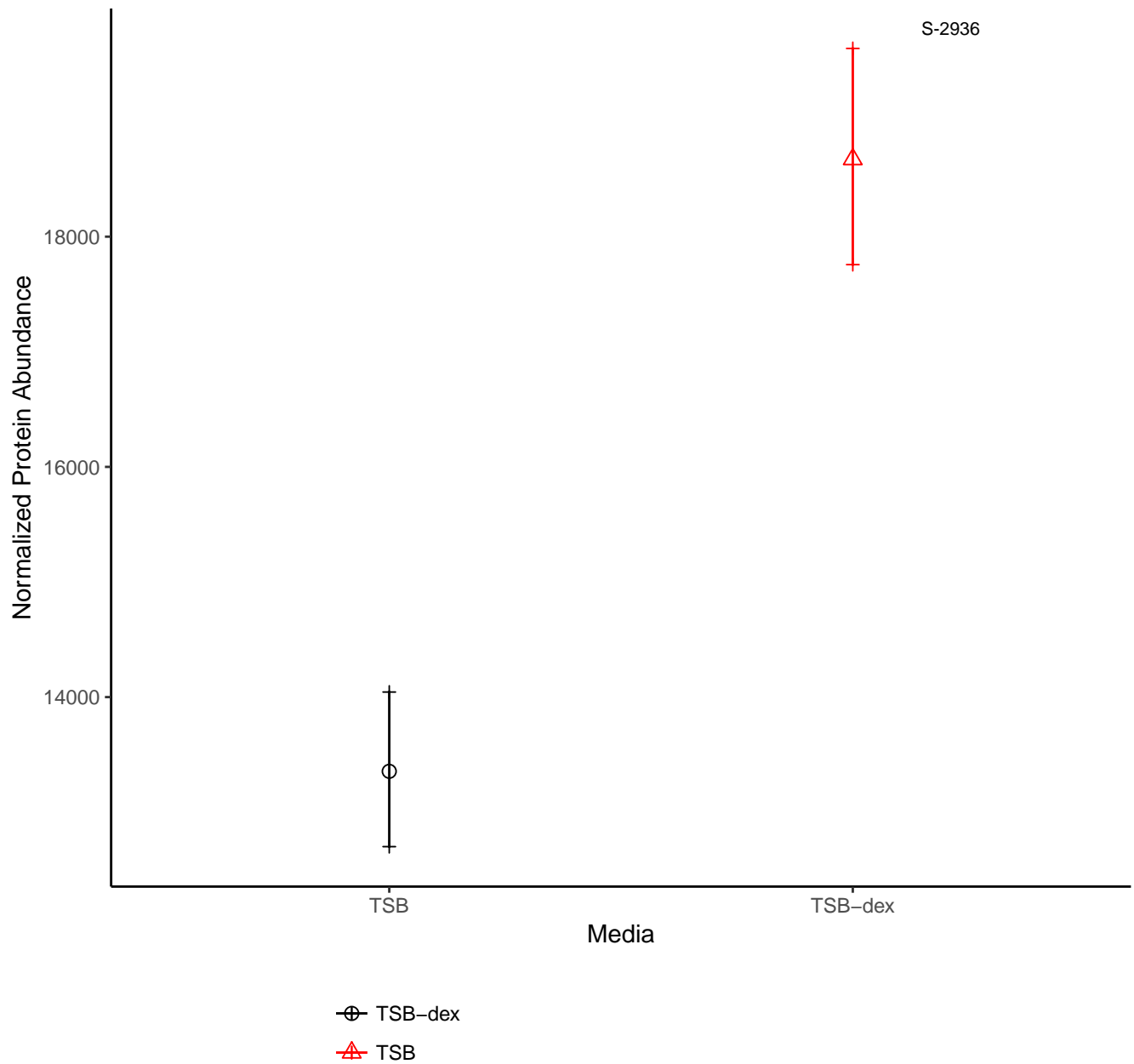
# TOP3\_STAAM



⊕ TSB-dex

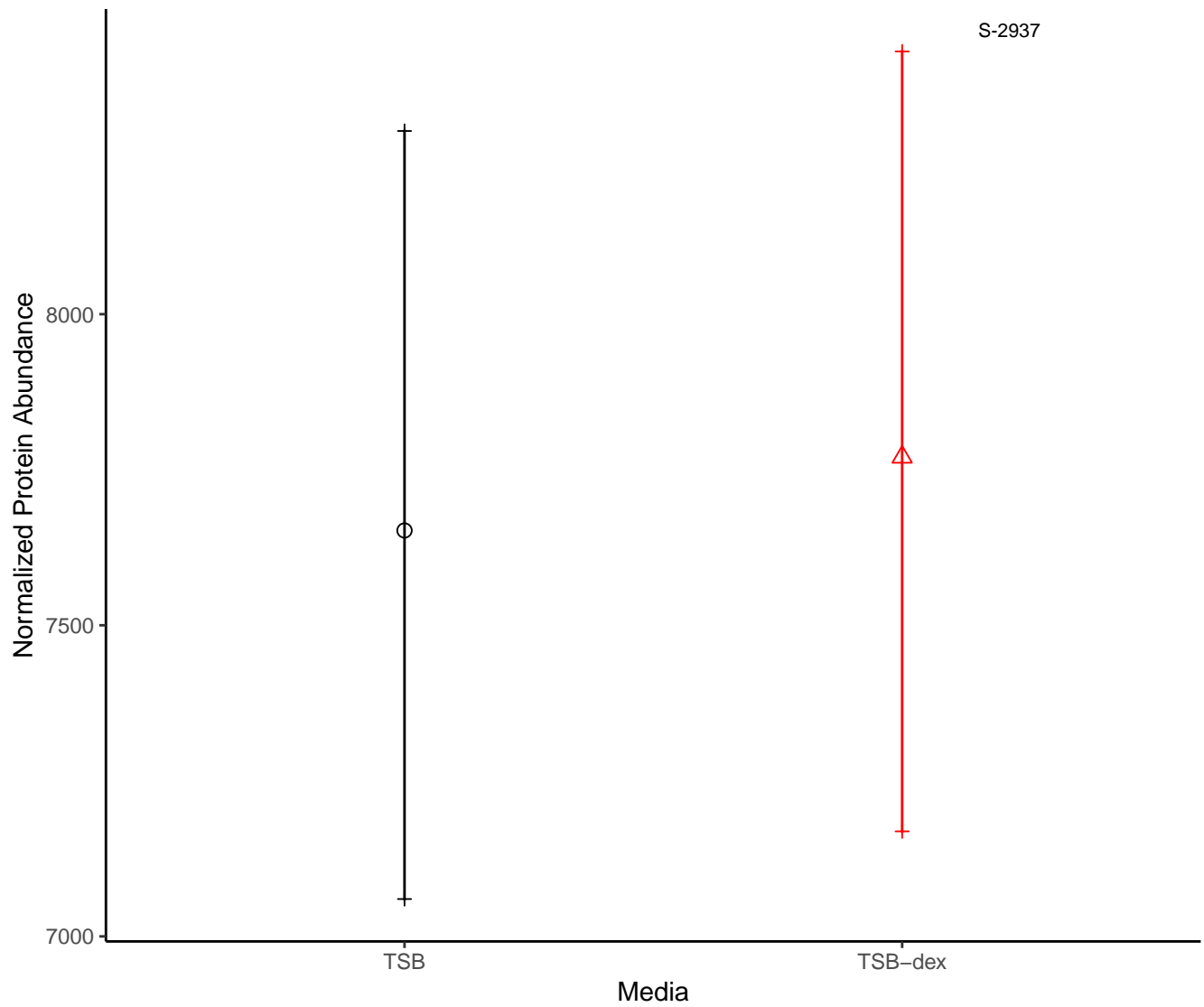
△ TSB

# TPIS\_STAAM





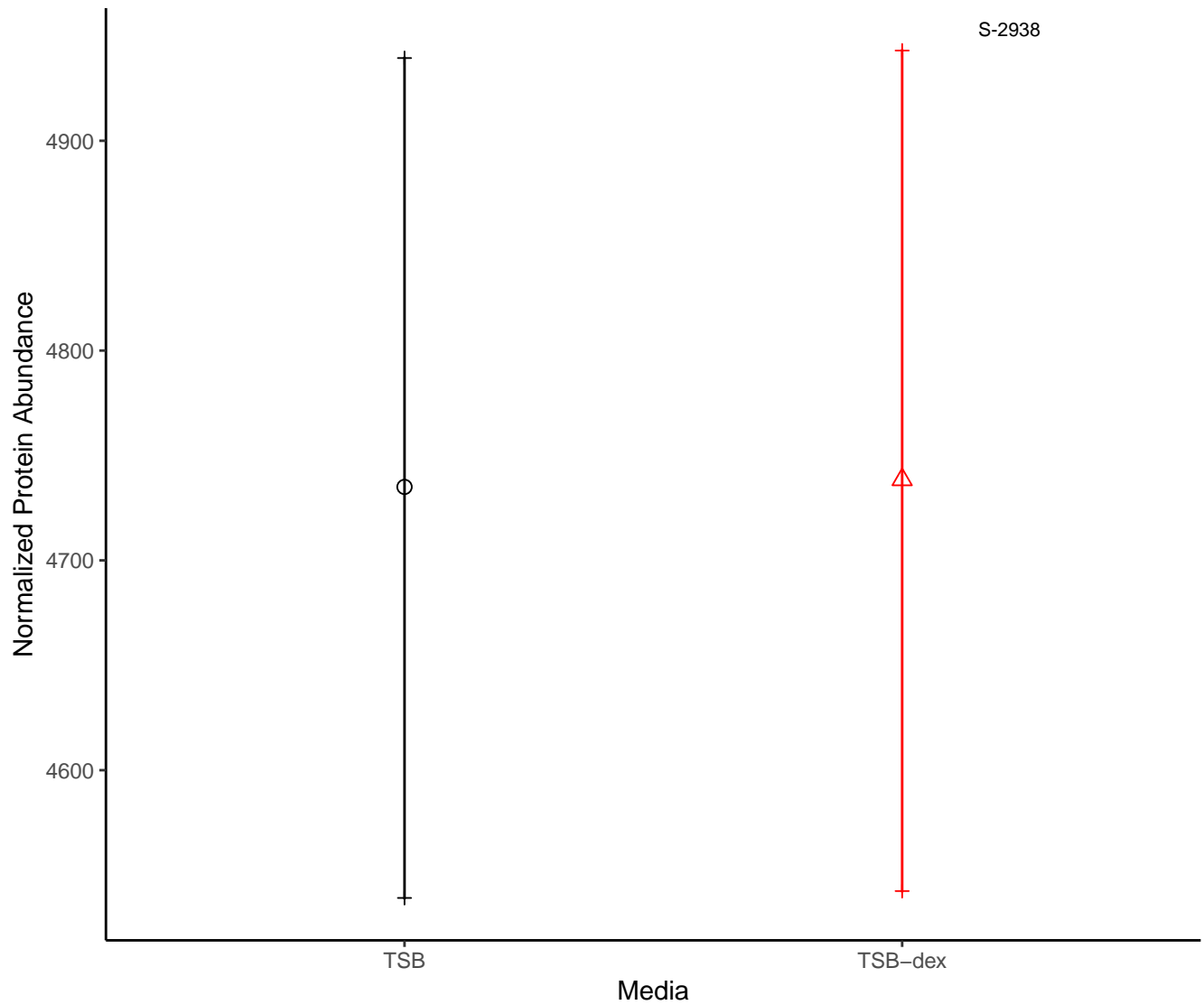
# TPX\_STAAM



⊕ TSB-dex

△ TSB

# TRAC\_STAAM

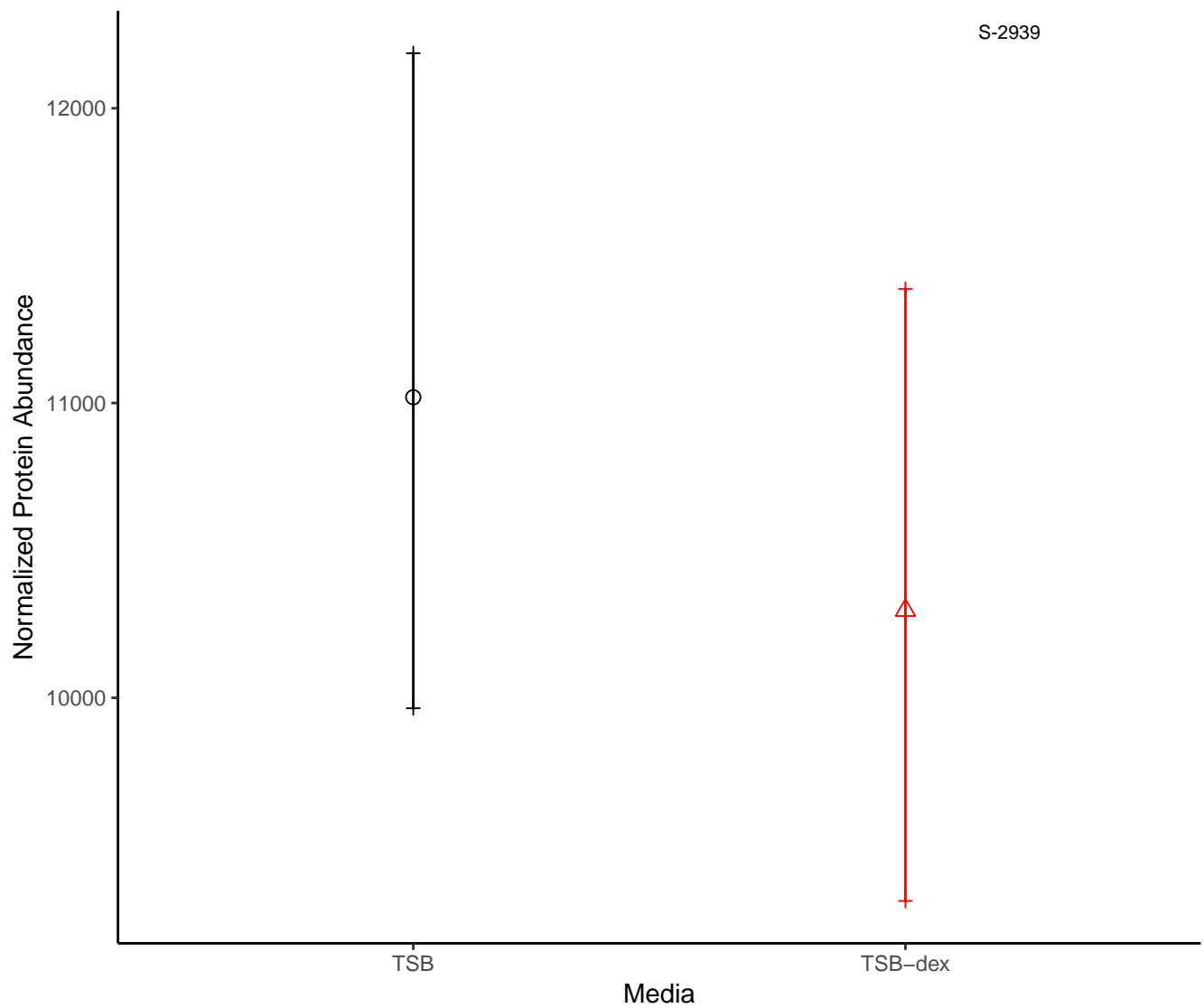


⊕ TSB-dex

△ TSB

# TRAP\_STAAM

S-2939

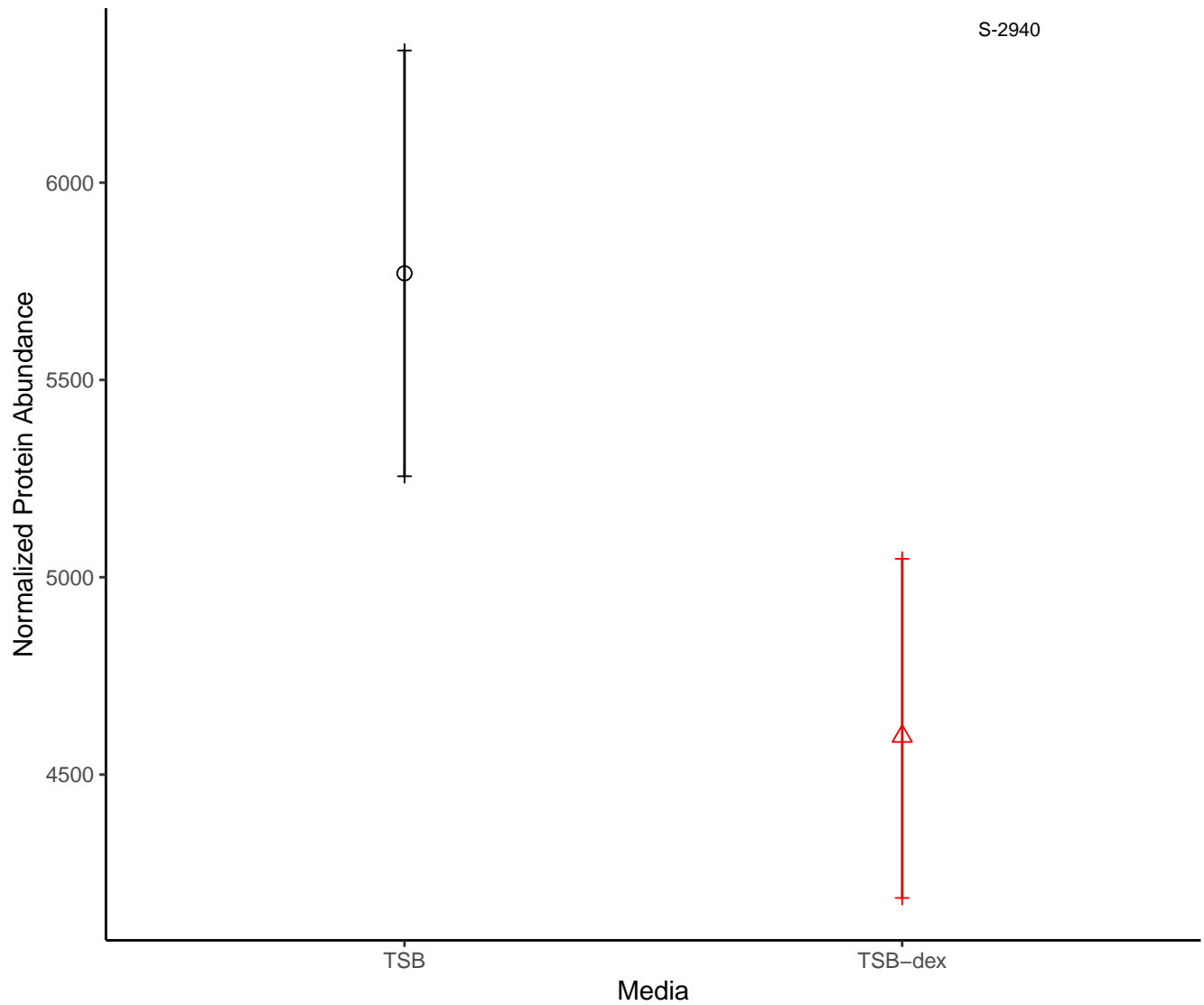


⊕ TSB-dex

△ TSB

# TRMB\_STAAM

S-2940

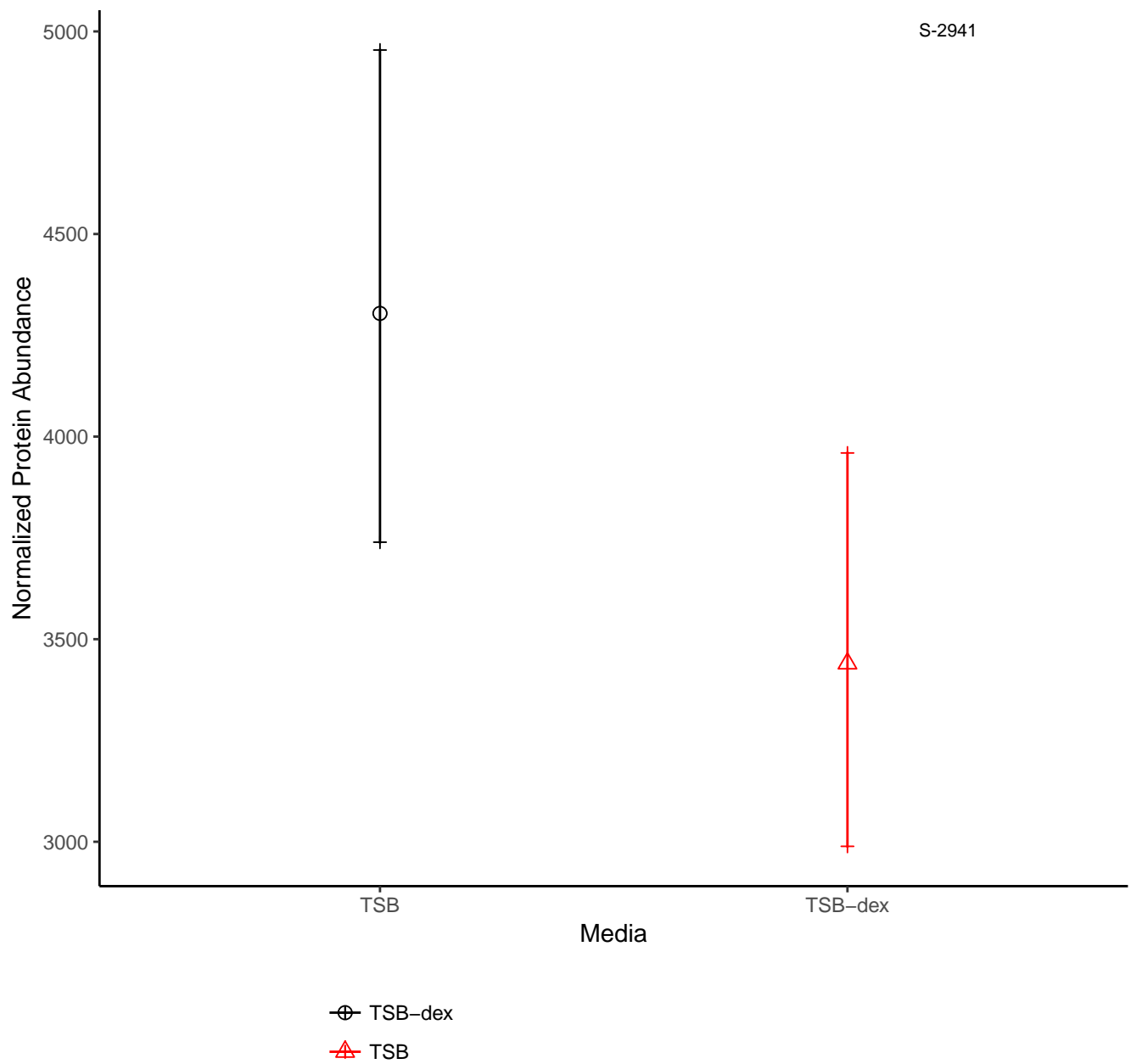


⊕ TSB-dex

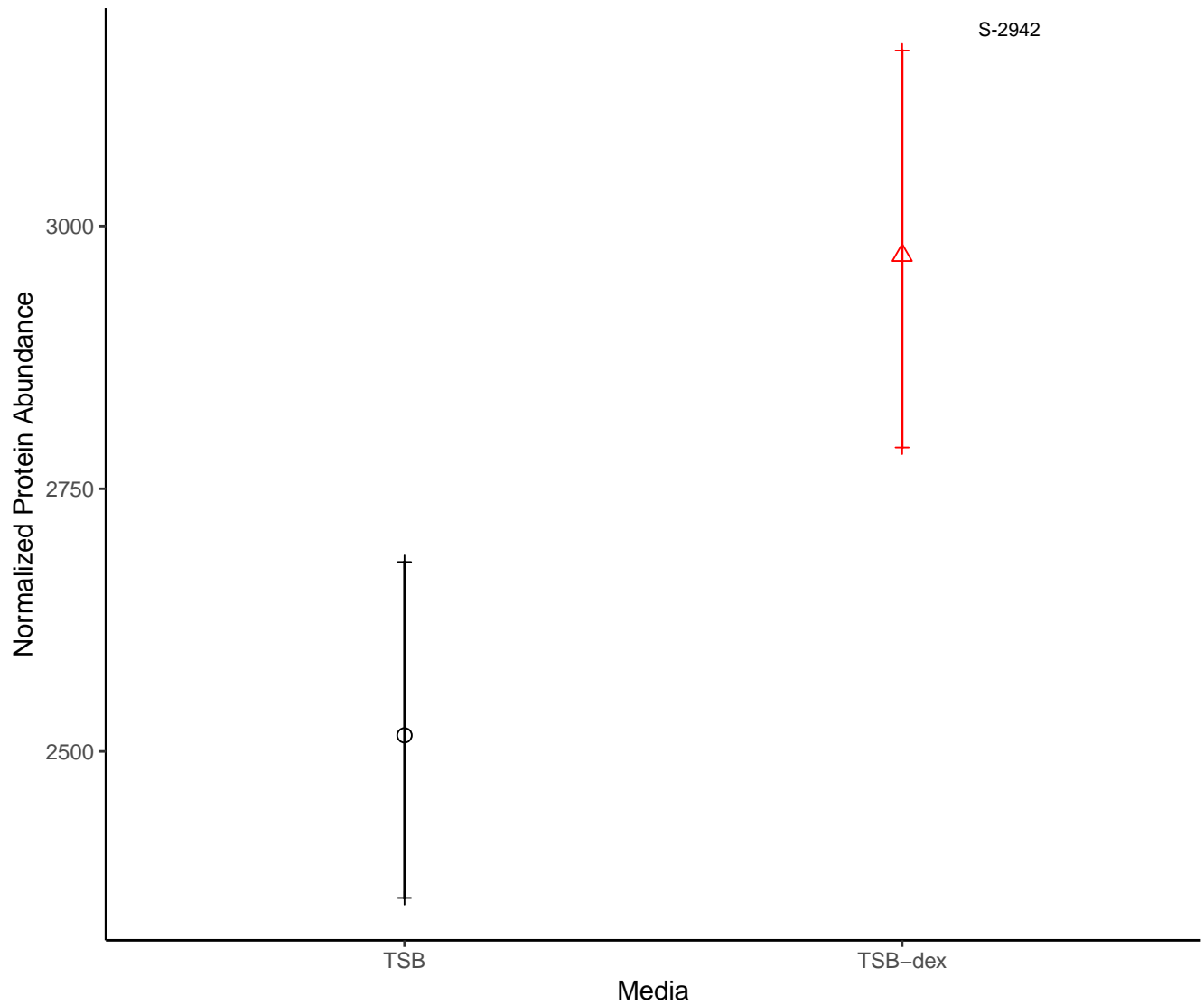
△ TSB

# TRMFO\_STAAM

S-2941



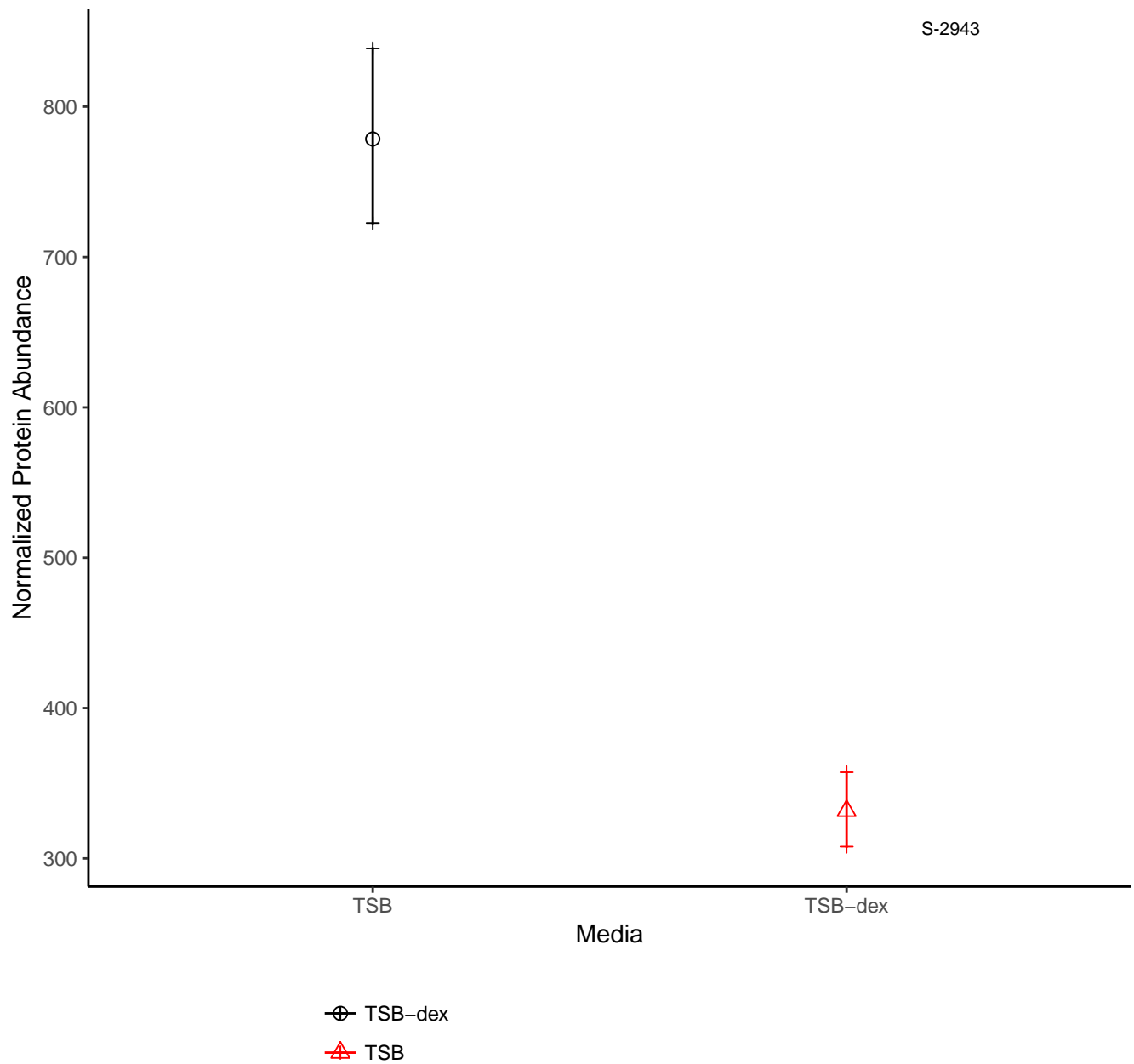
# TRMHL\_STAAM



⊕ TSB-dex

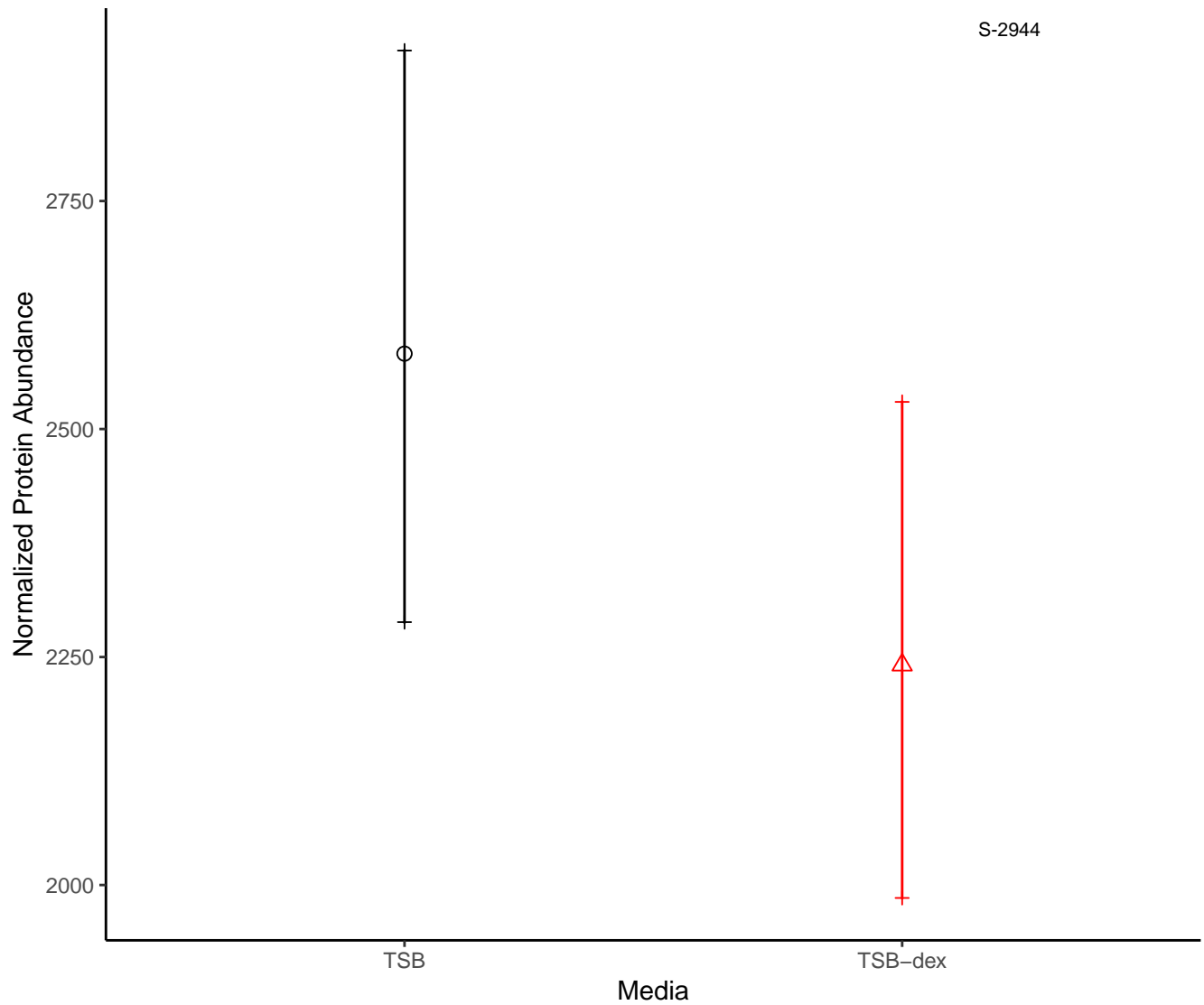
△ TSB

# TRPA\_STAAM



# TRPF\_STAAM

S-2944

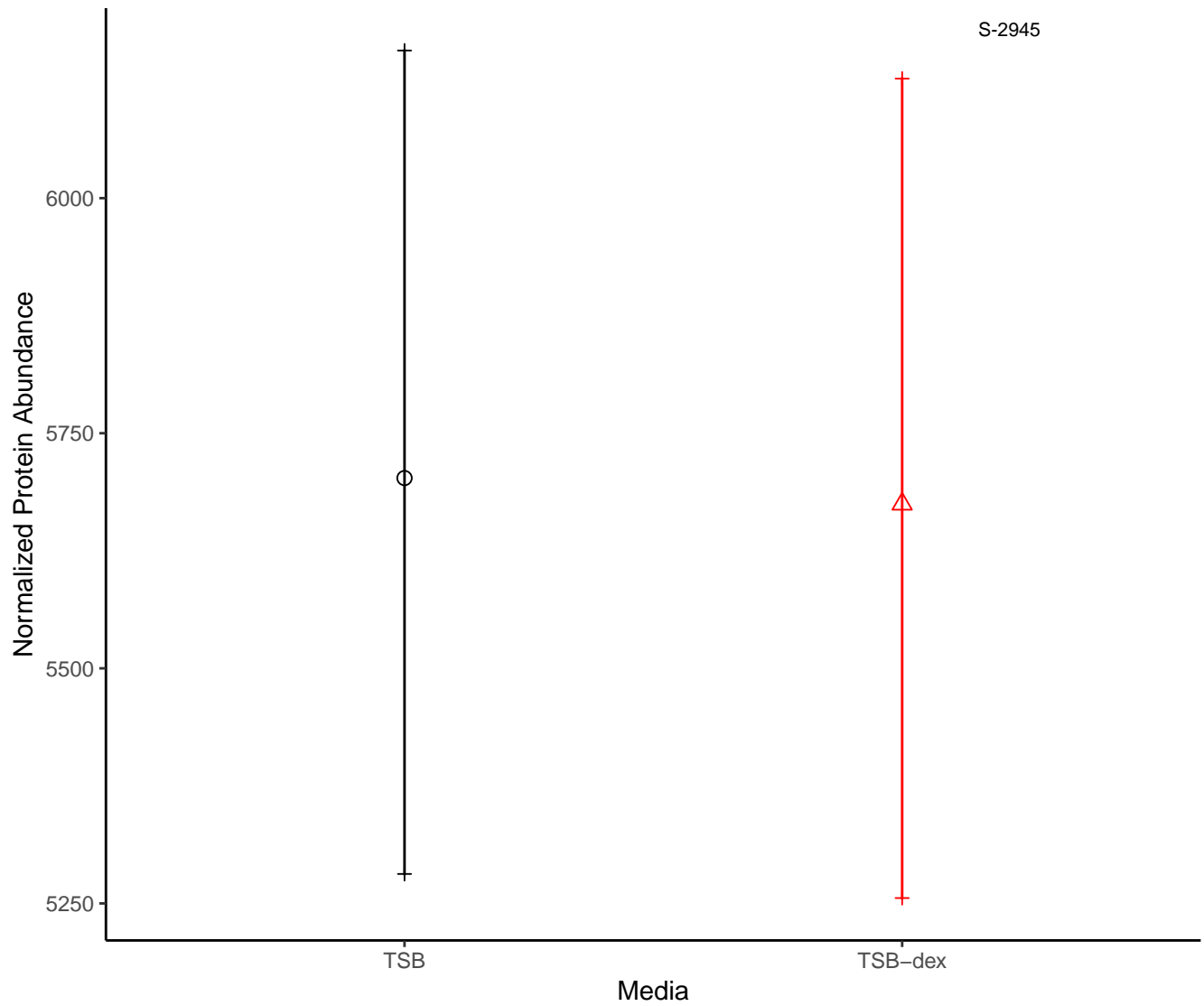


⊕ TSB-dex

△ TSB



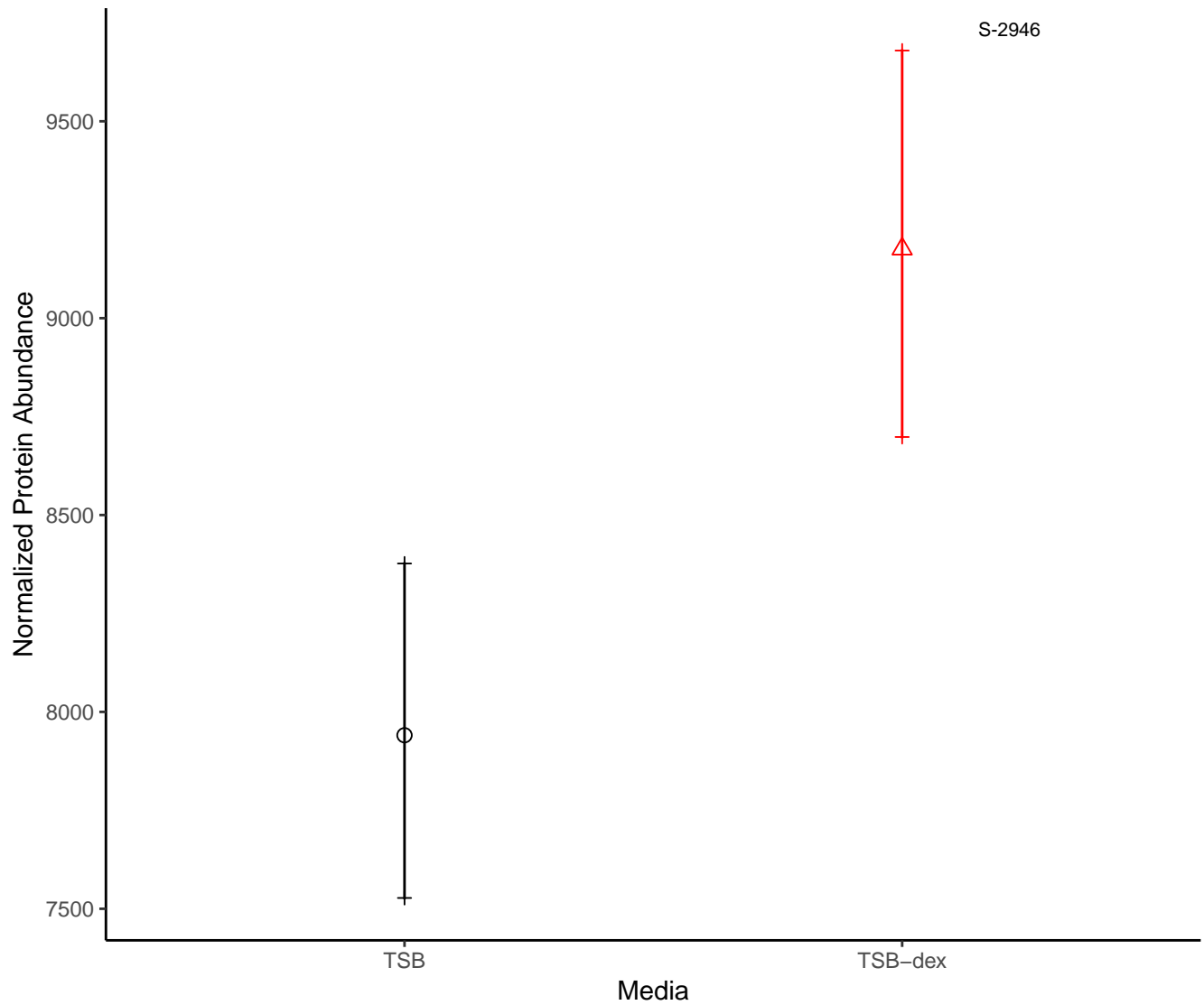
# TRUB\_STAAM



⊕ TSB-dex

△ TSB

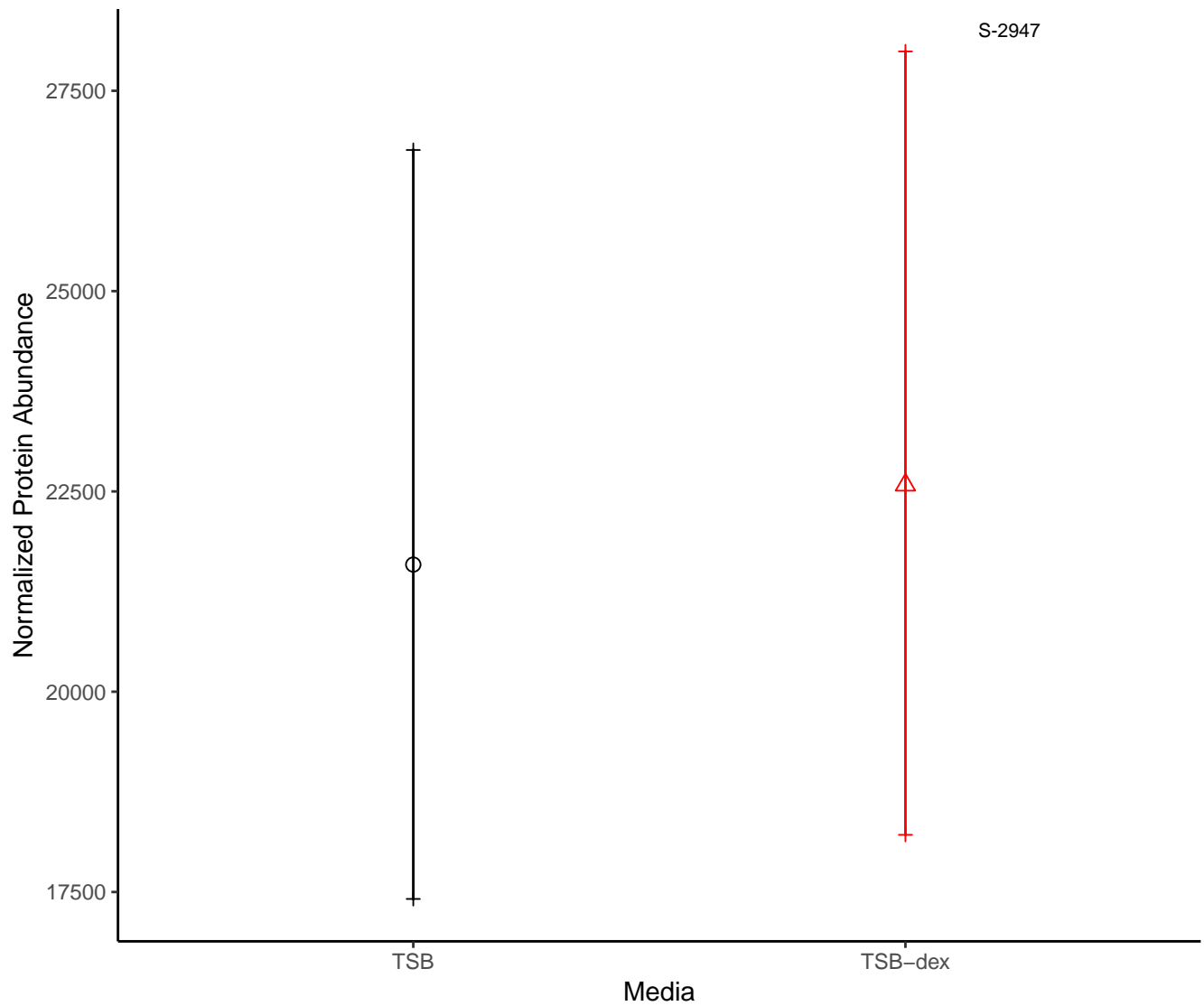
# TRXB\_STAAM



⊕ TSB-dex

△ TSB

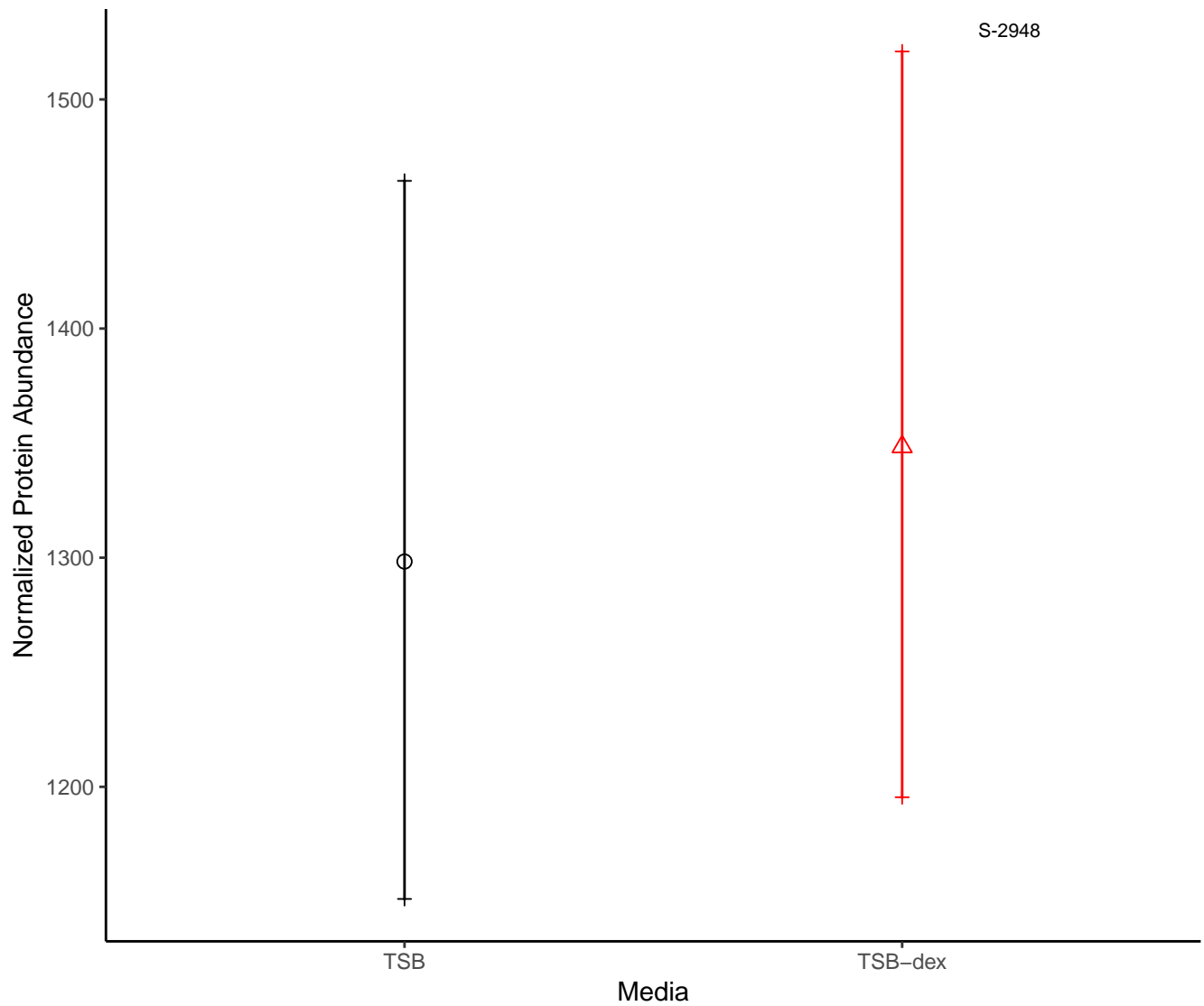
# TSAD\_STAAM



⊕ TSB-dex

△ TSB

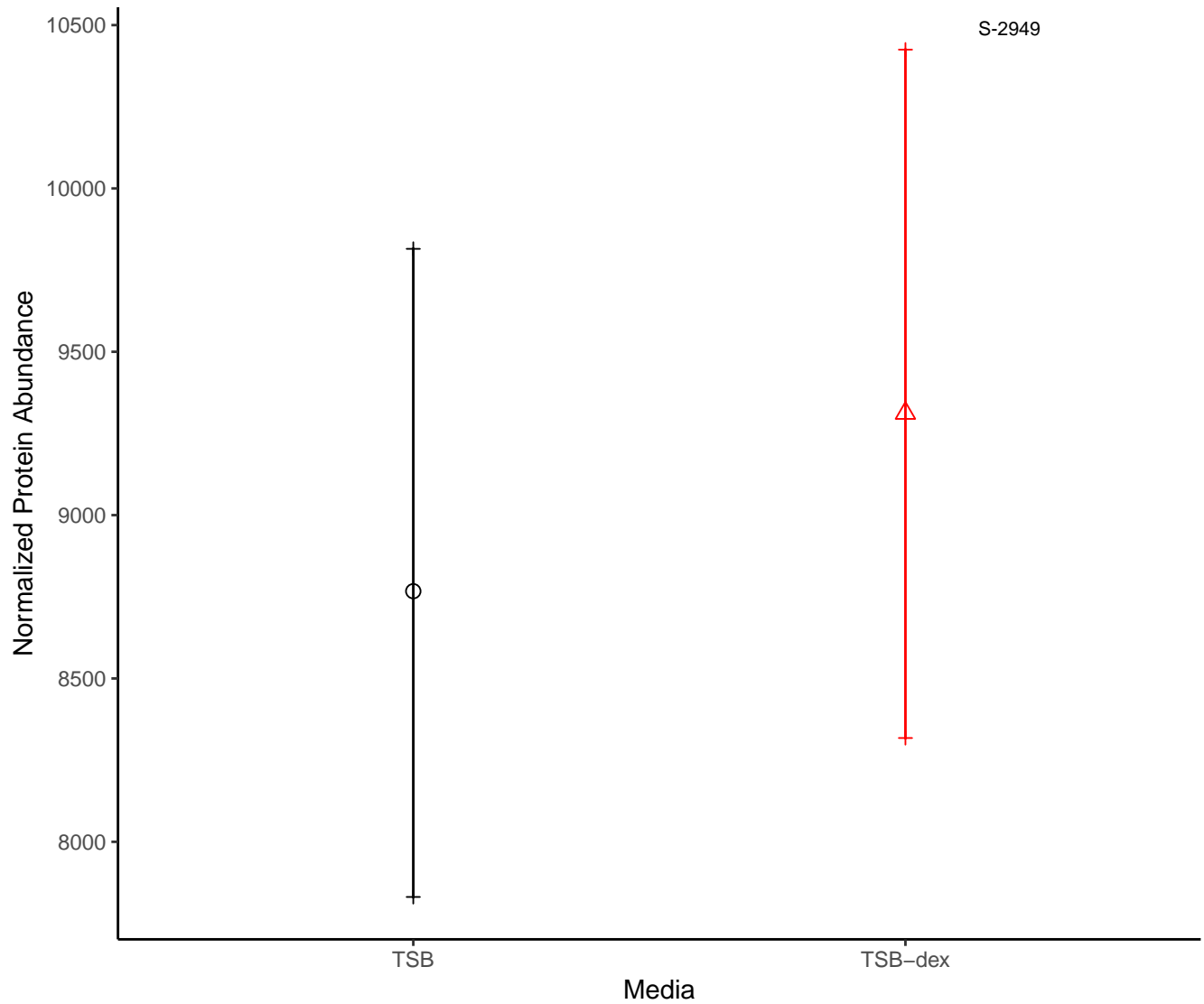
# TYRA\_STAAM



⊕ TSB-dex

△ TSB

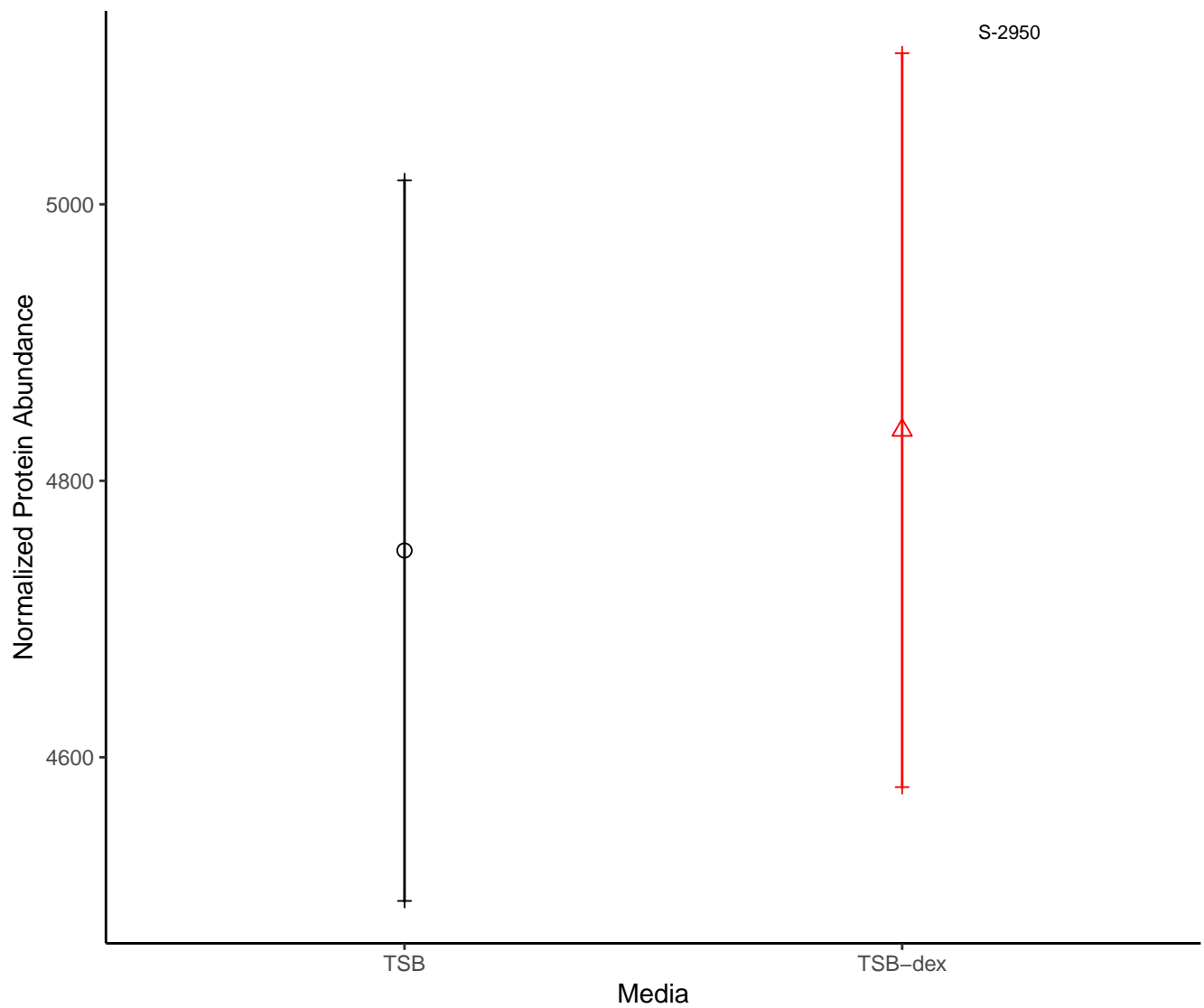
# TYSY\_STAAM



⊕ TSB-dex

△ TSB

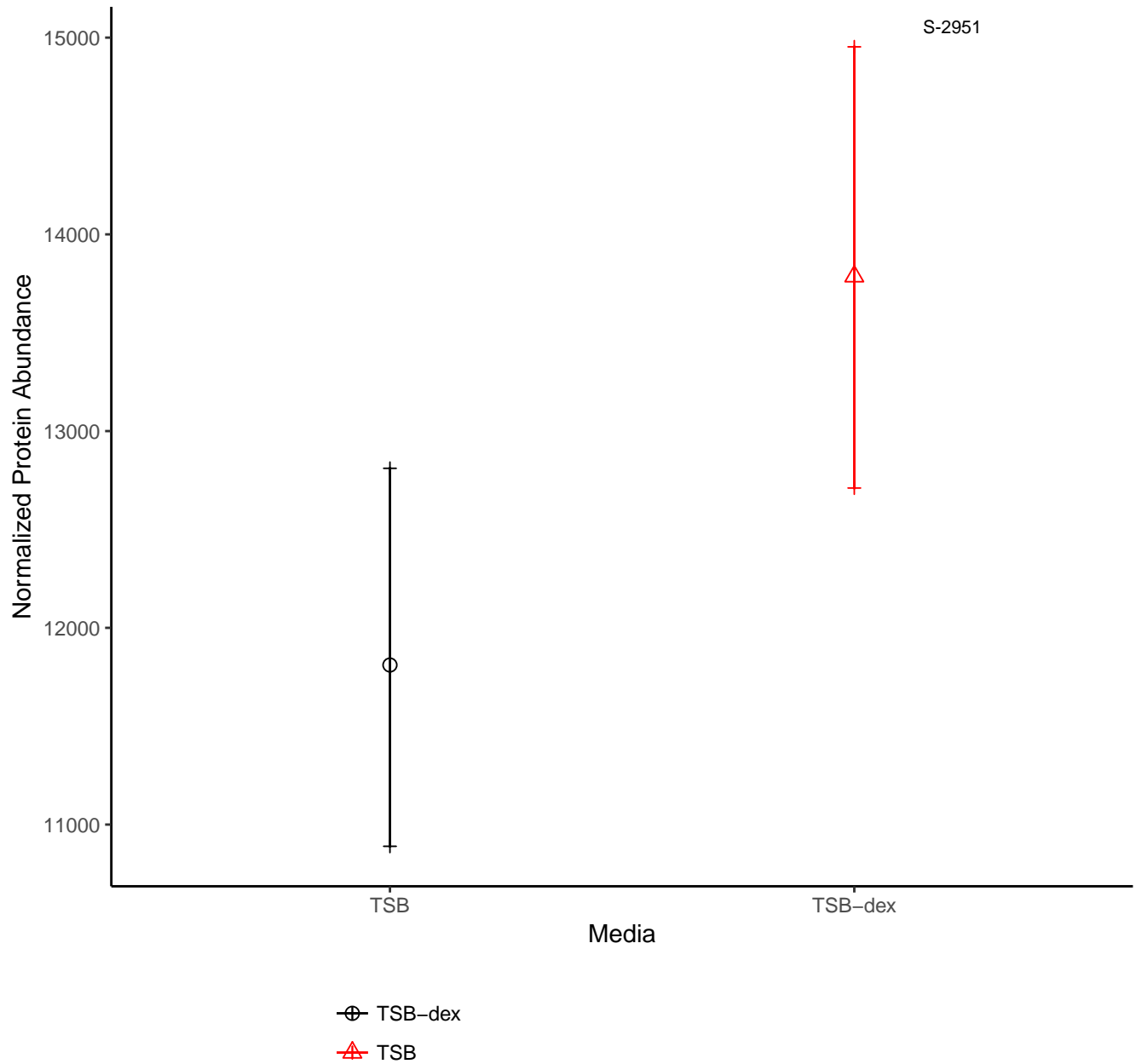
# UNG\_STAAM



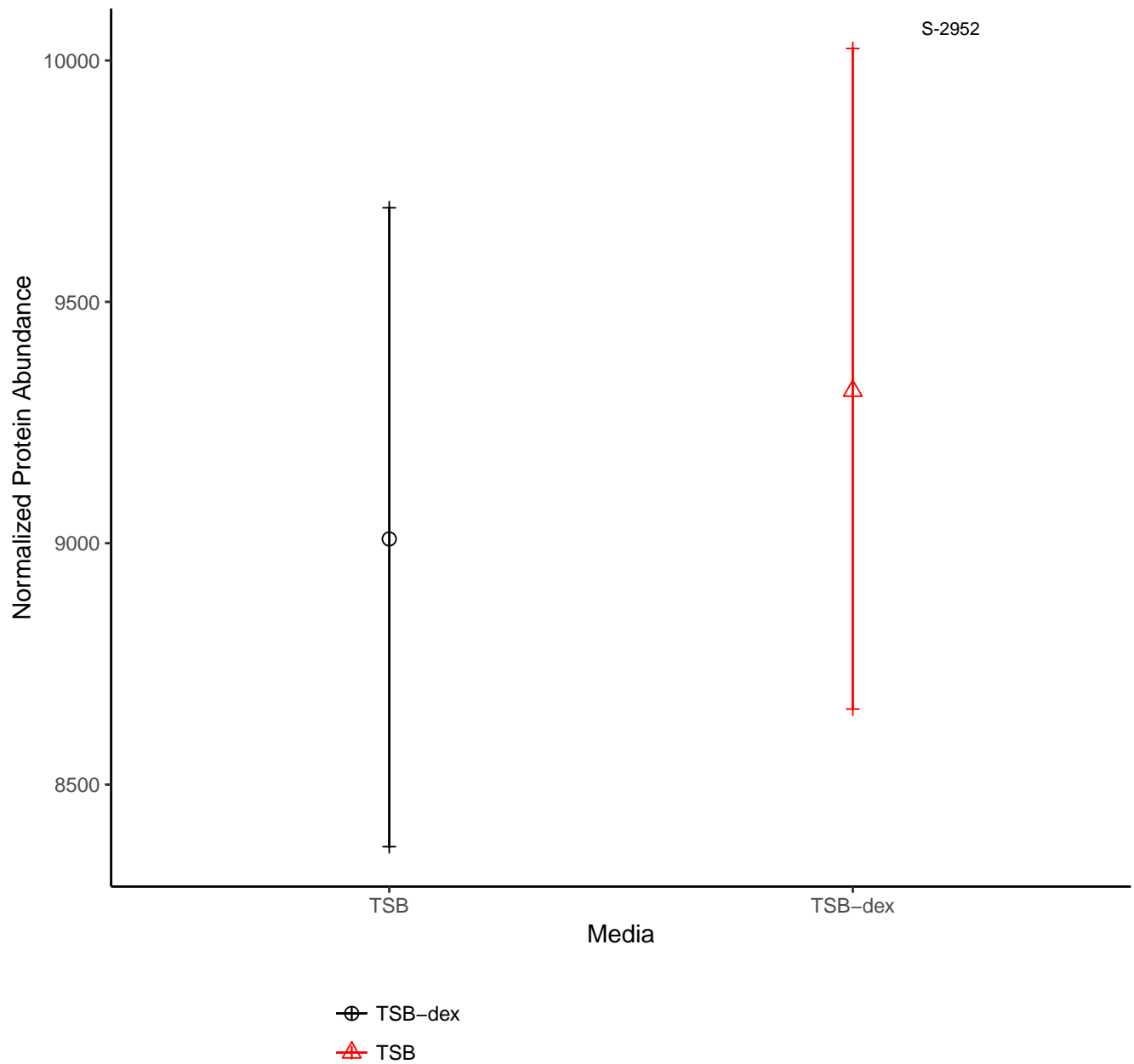
⊕ TSB-dex

△ TSB

# UP355\_STAAM

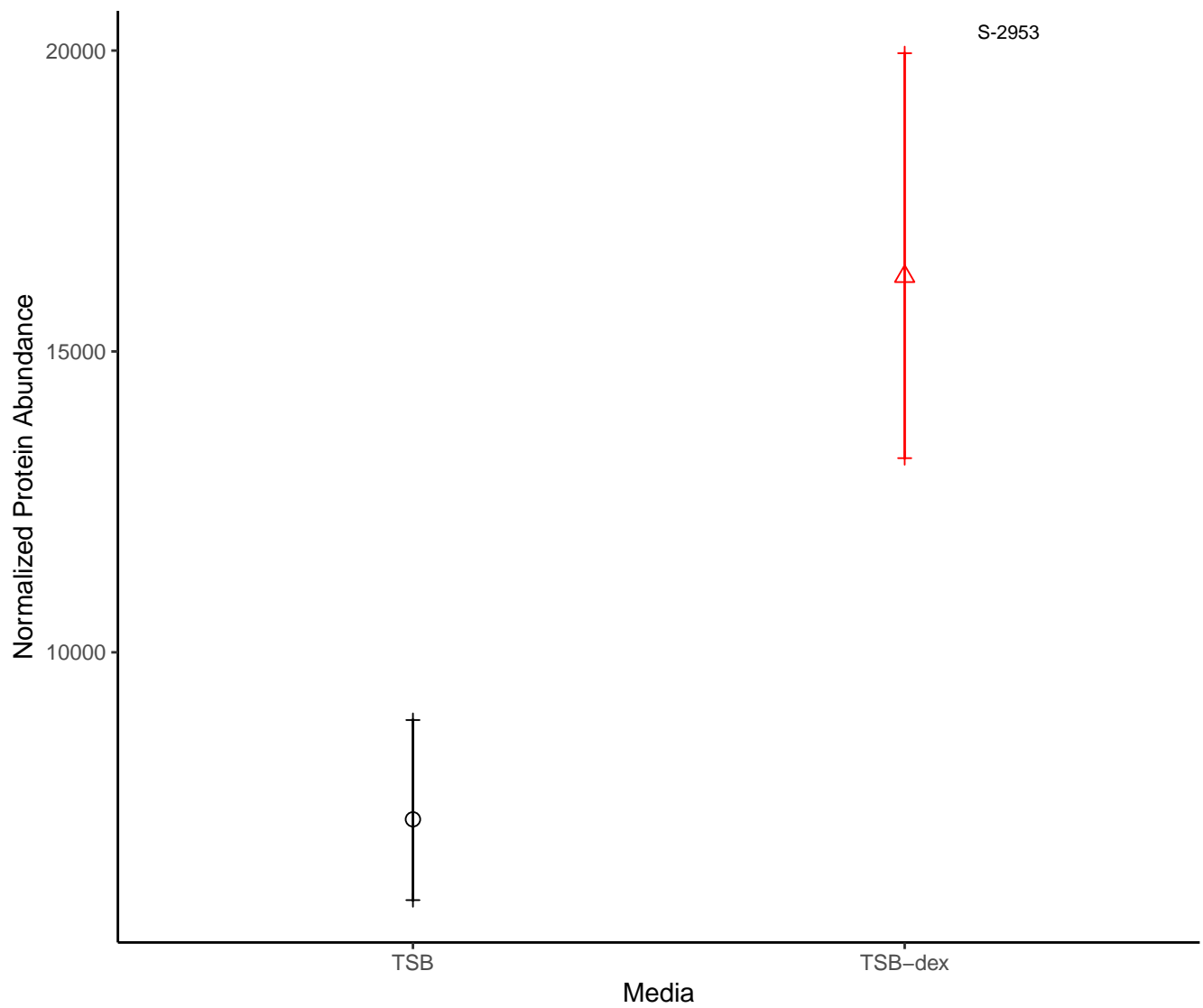


# UPP\_STAAM





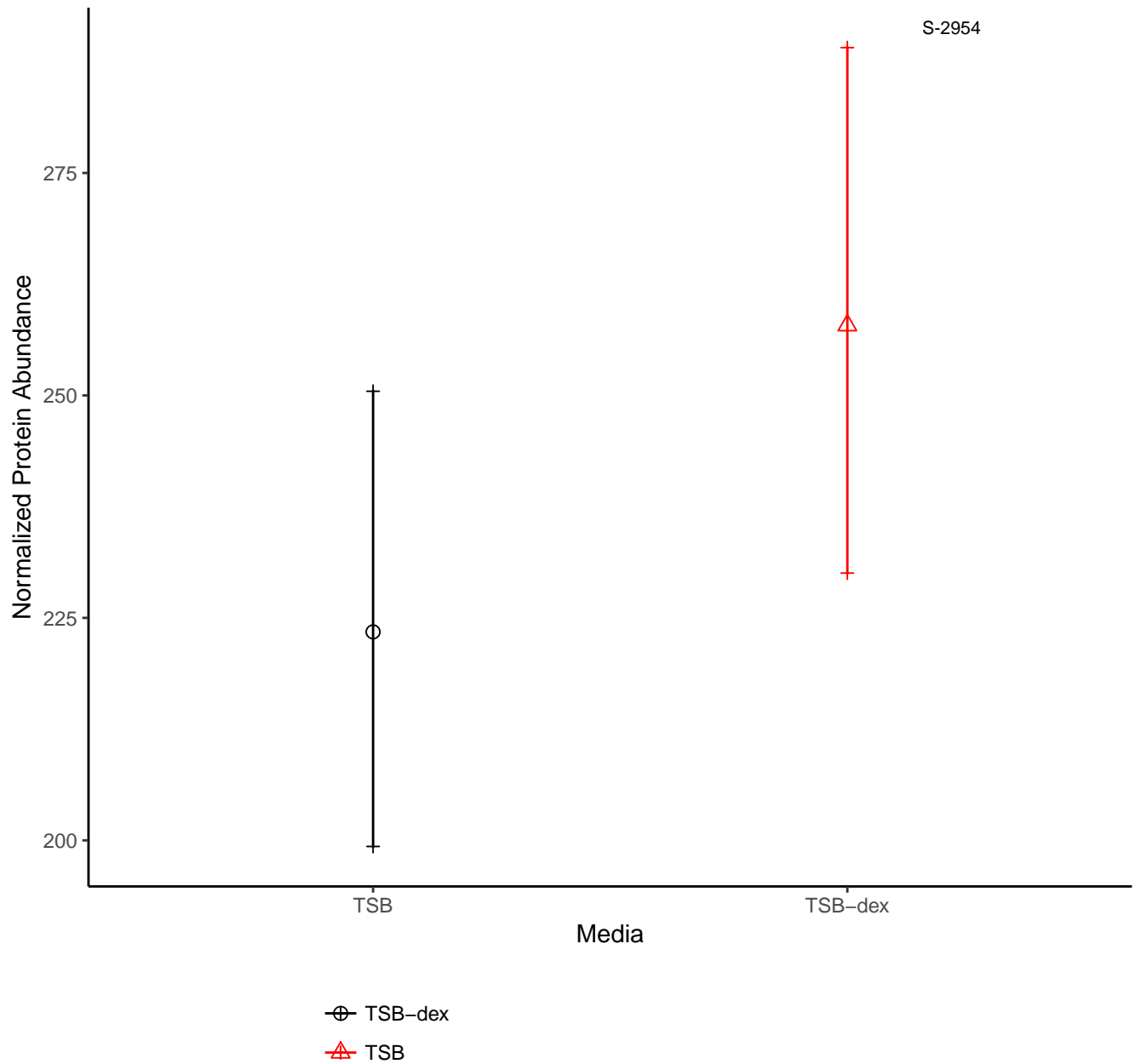
# UREE\_STAAM



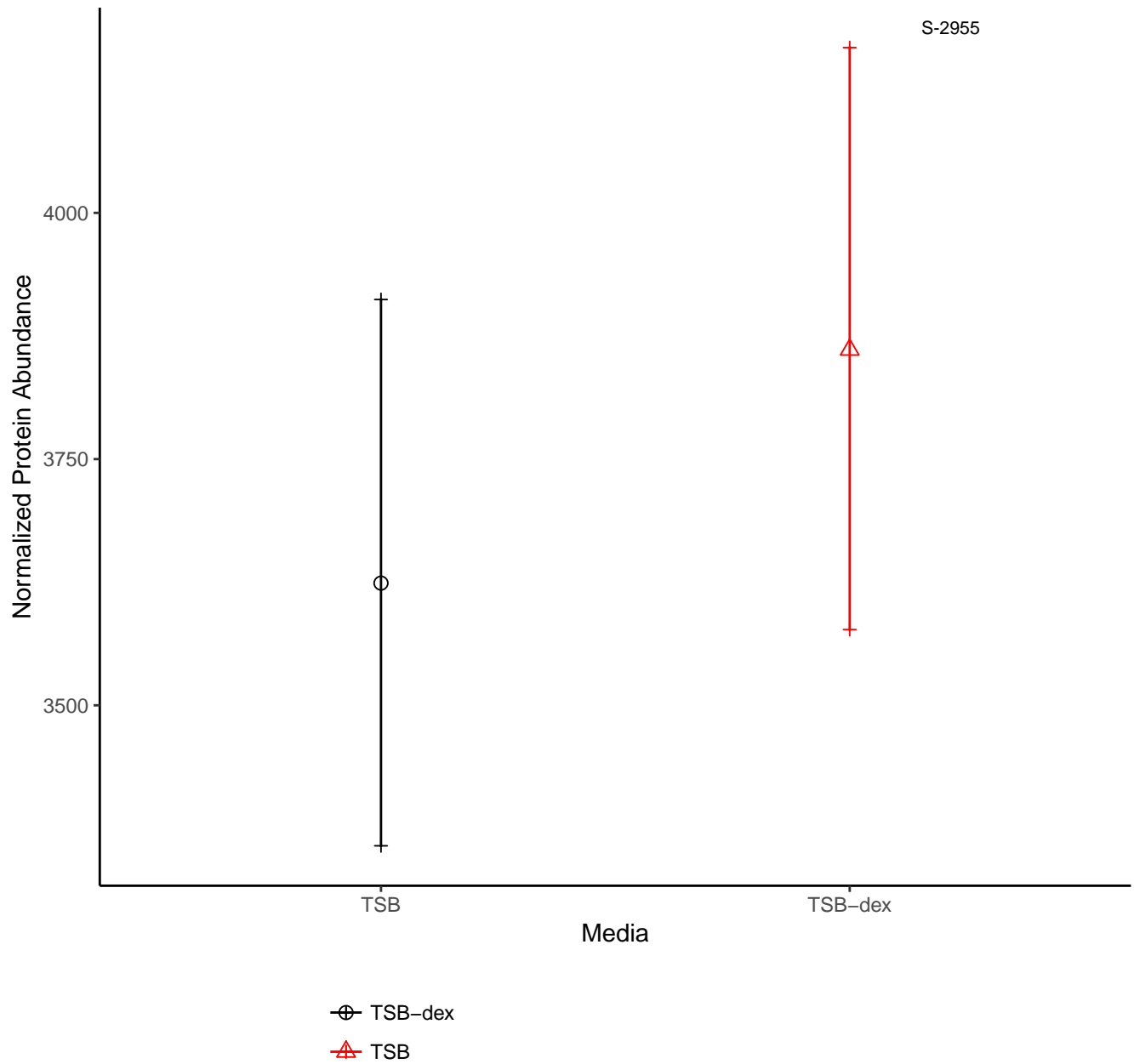
⊖ TSB-dex

△ TSB

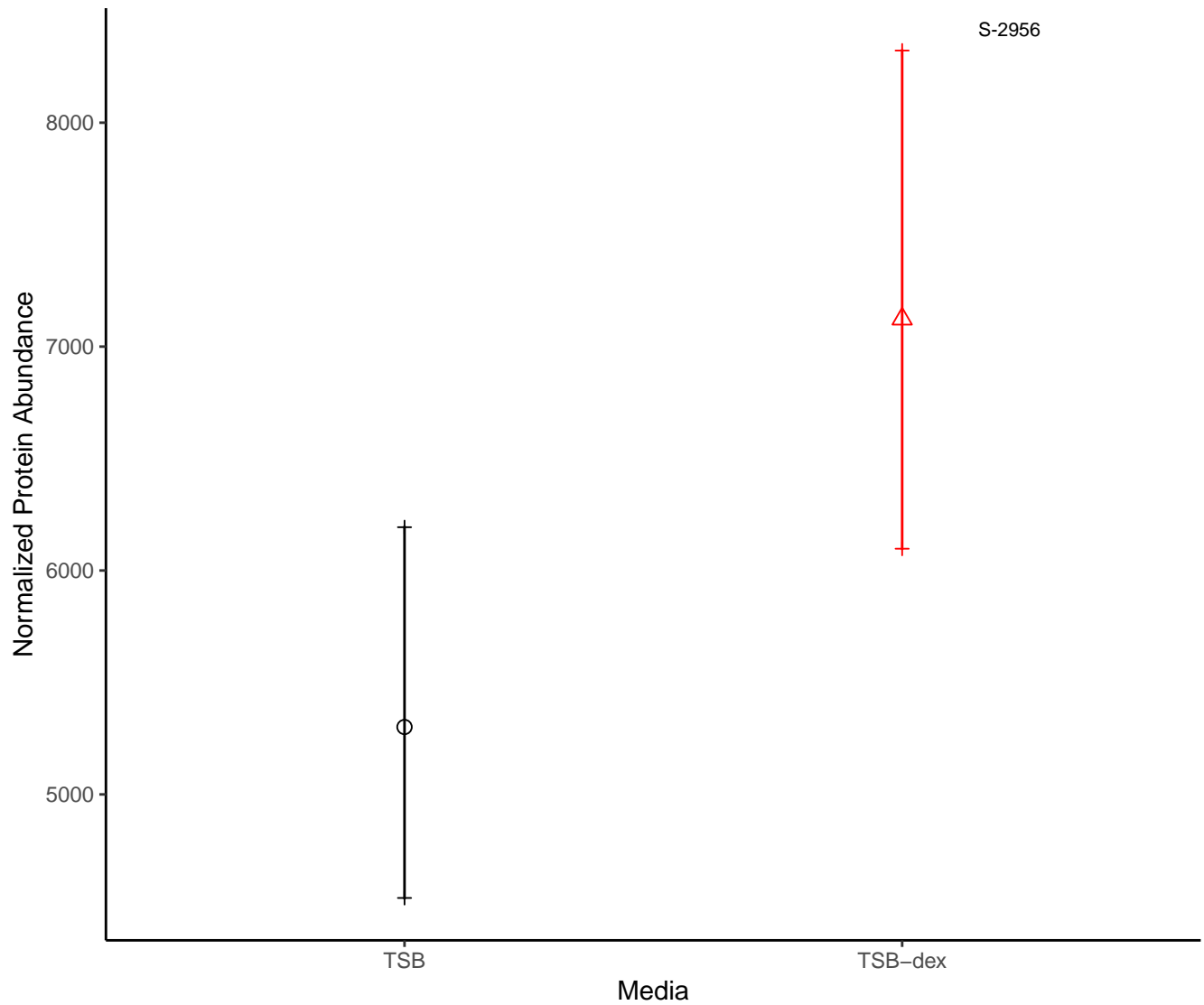
# UREG\_STAAM



# URK\_STAAM



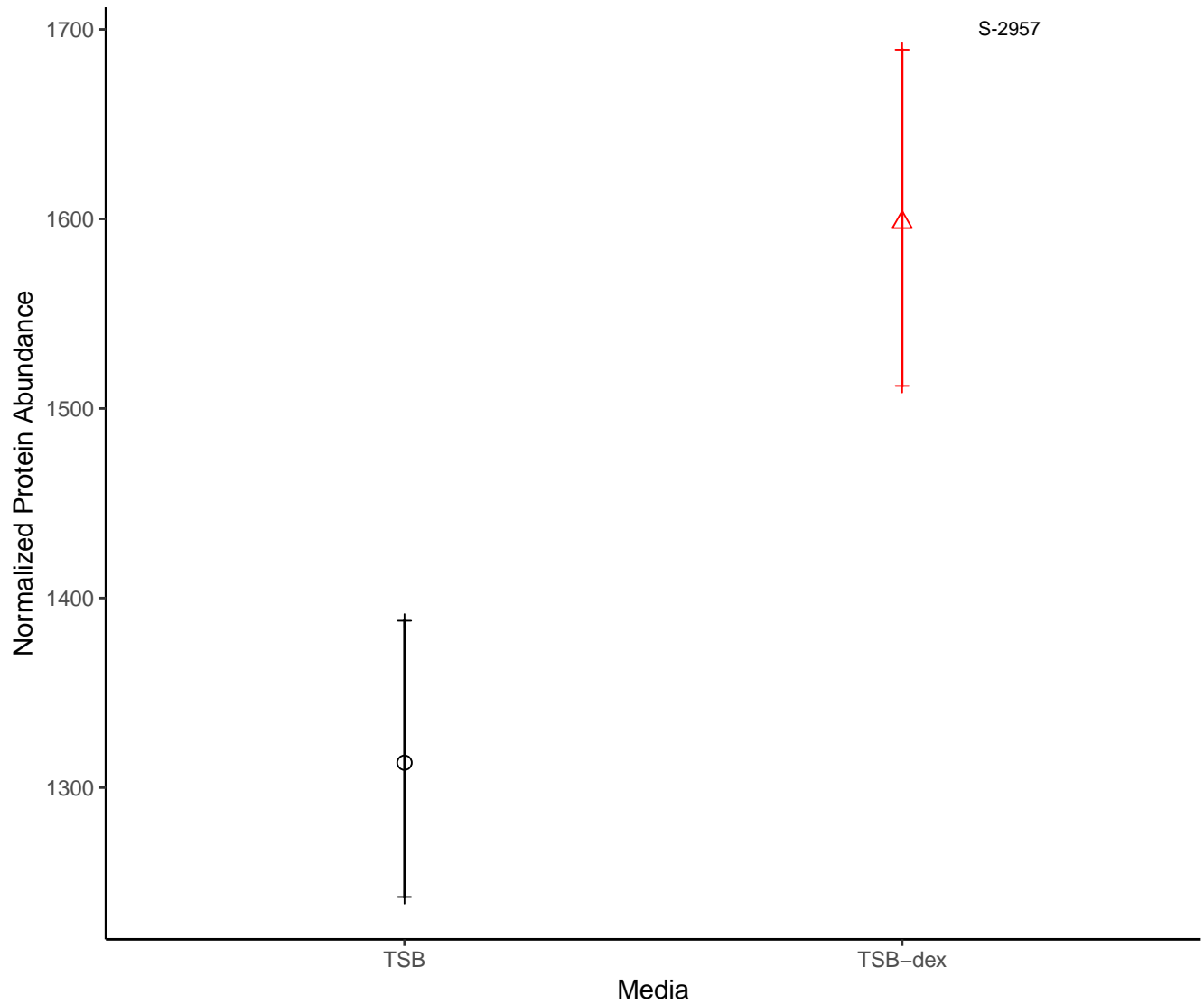
# URTF\_STAAM



⊕ TSB-dex

△ TSB

# UVRA\_STAAM

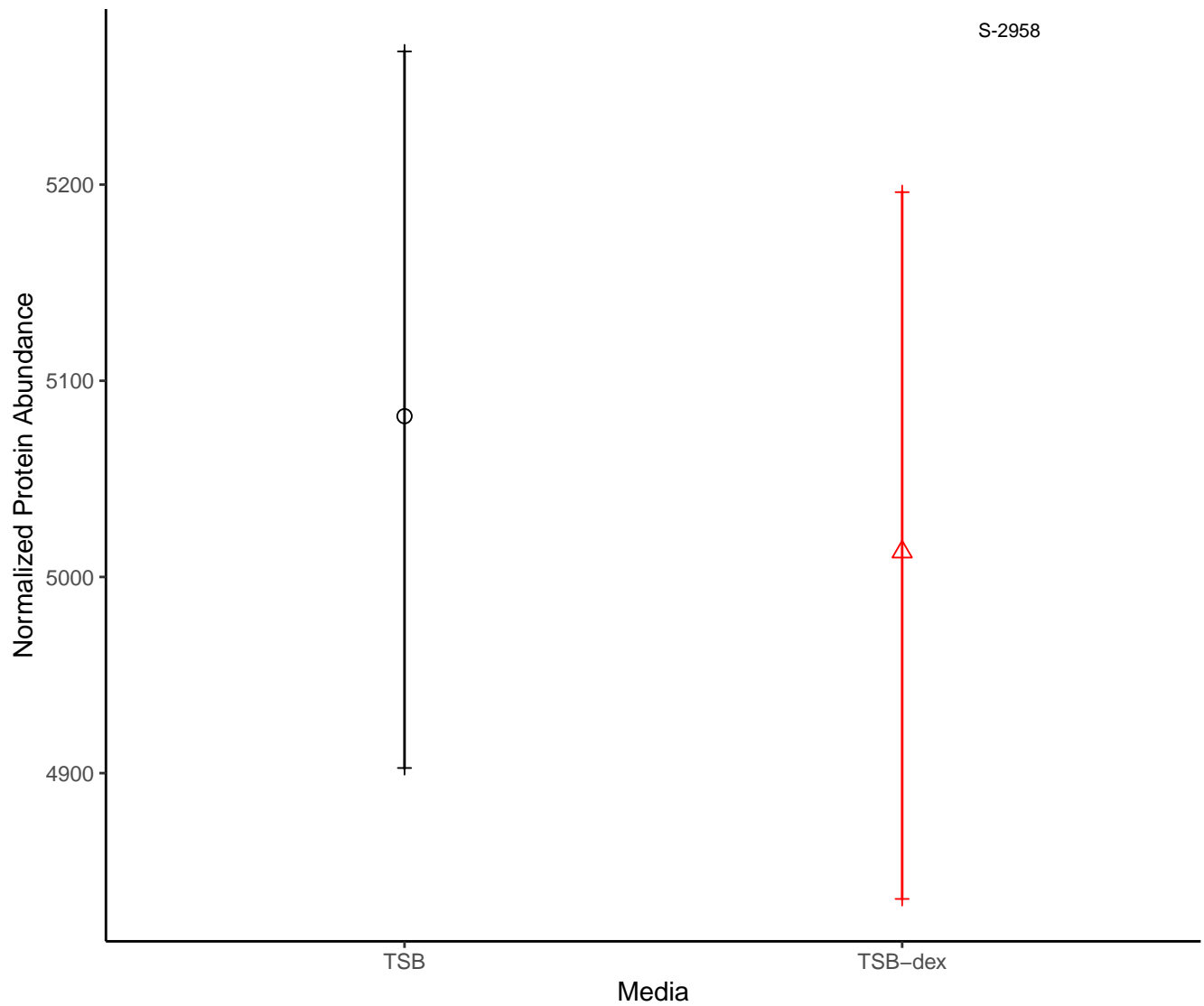


⊕ TSB-dex

△ TSB

# VRAC\_STAAM

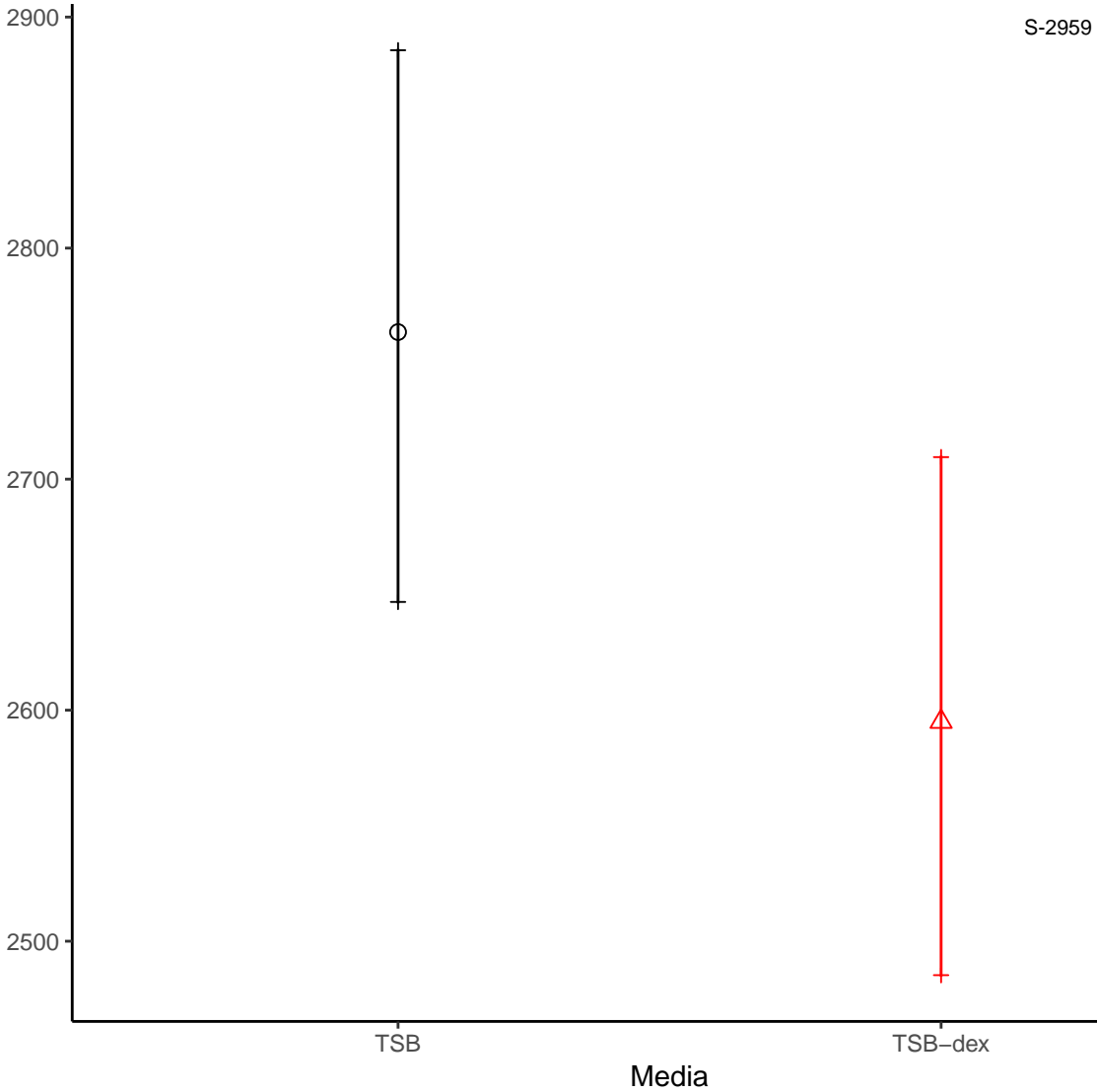
S-2958



⊕ TSB-dex

△ TSB

# VRAR\_STAAM

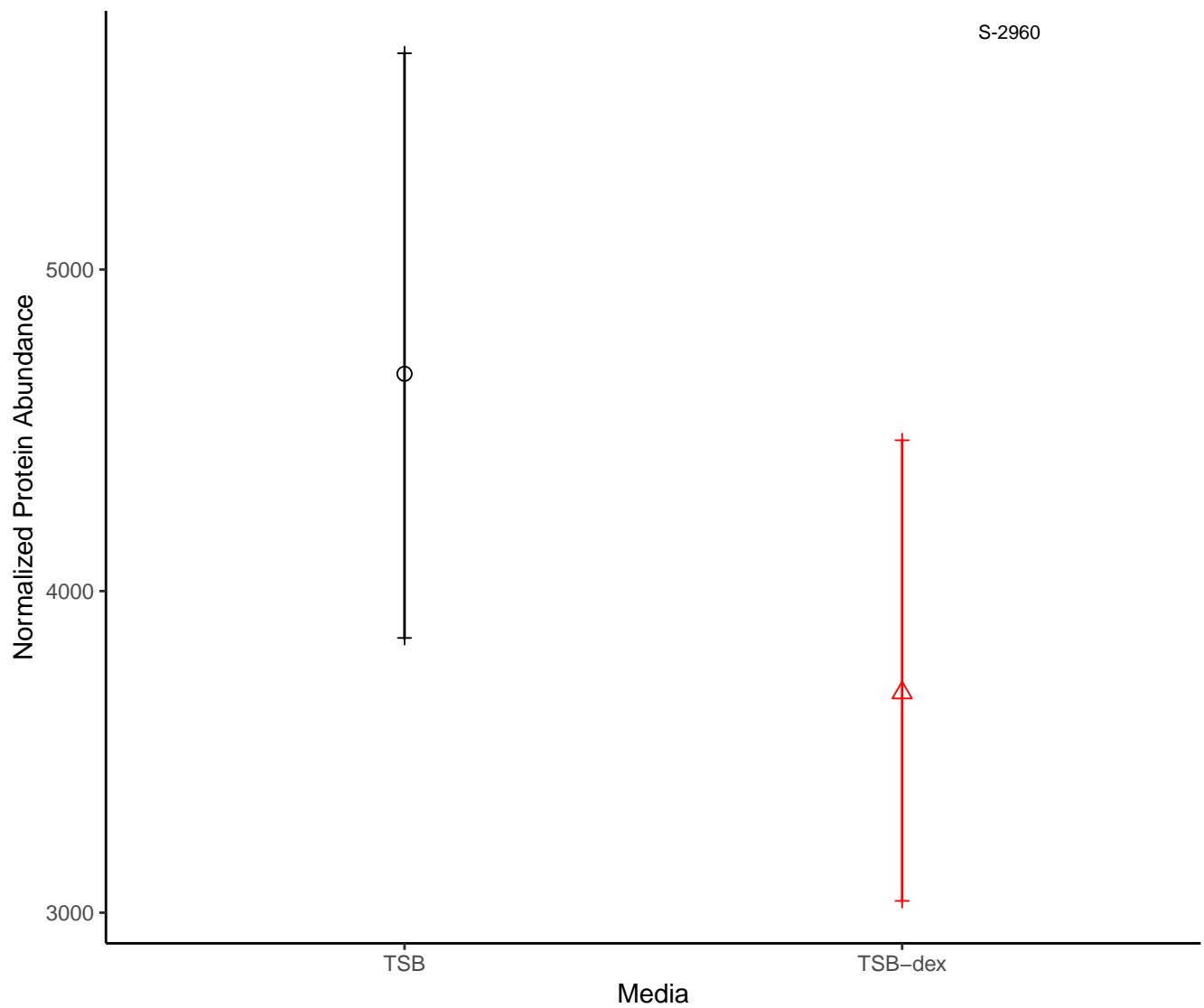


⊕ TSB-dex

△ TSB

# WALK\_STAAM

S-2960

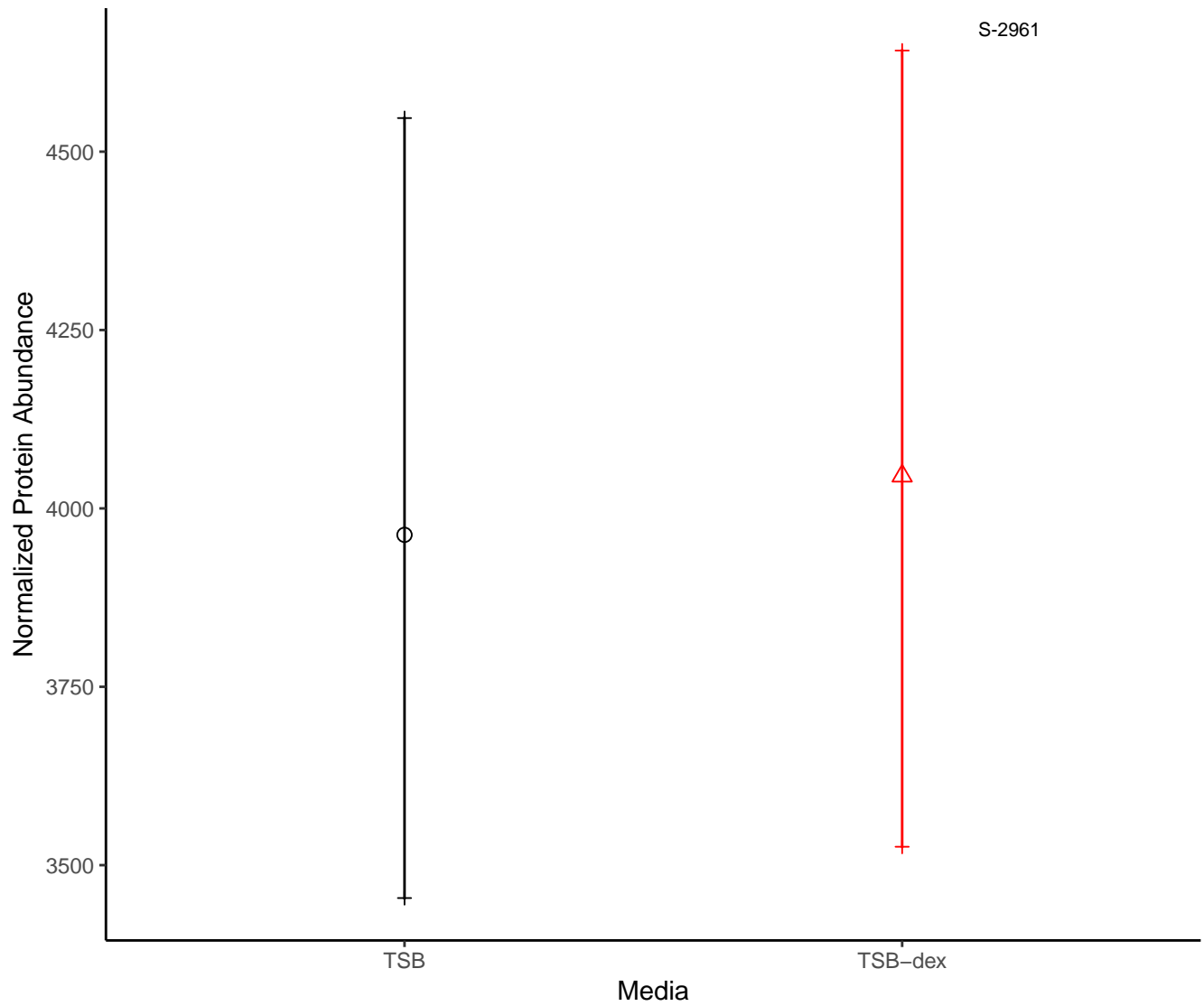


⊕ TSB-dex

△ TSB



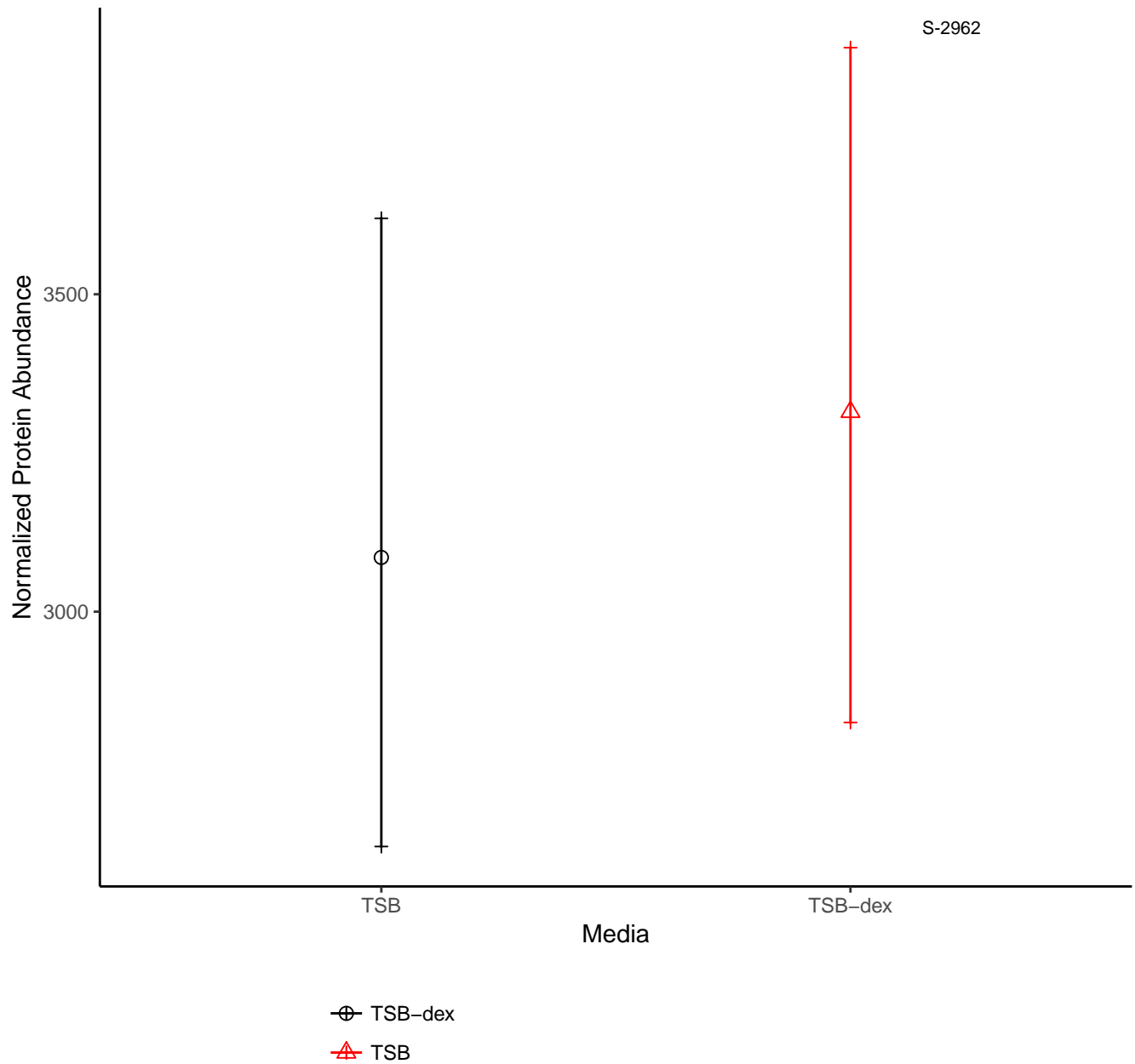
# WALR\_STAAM



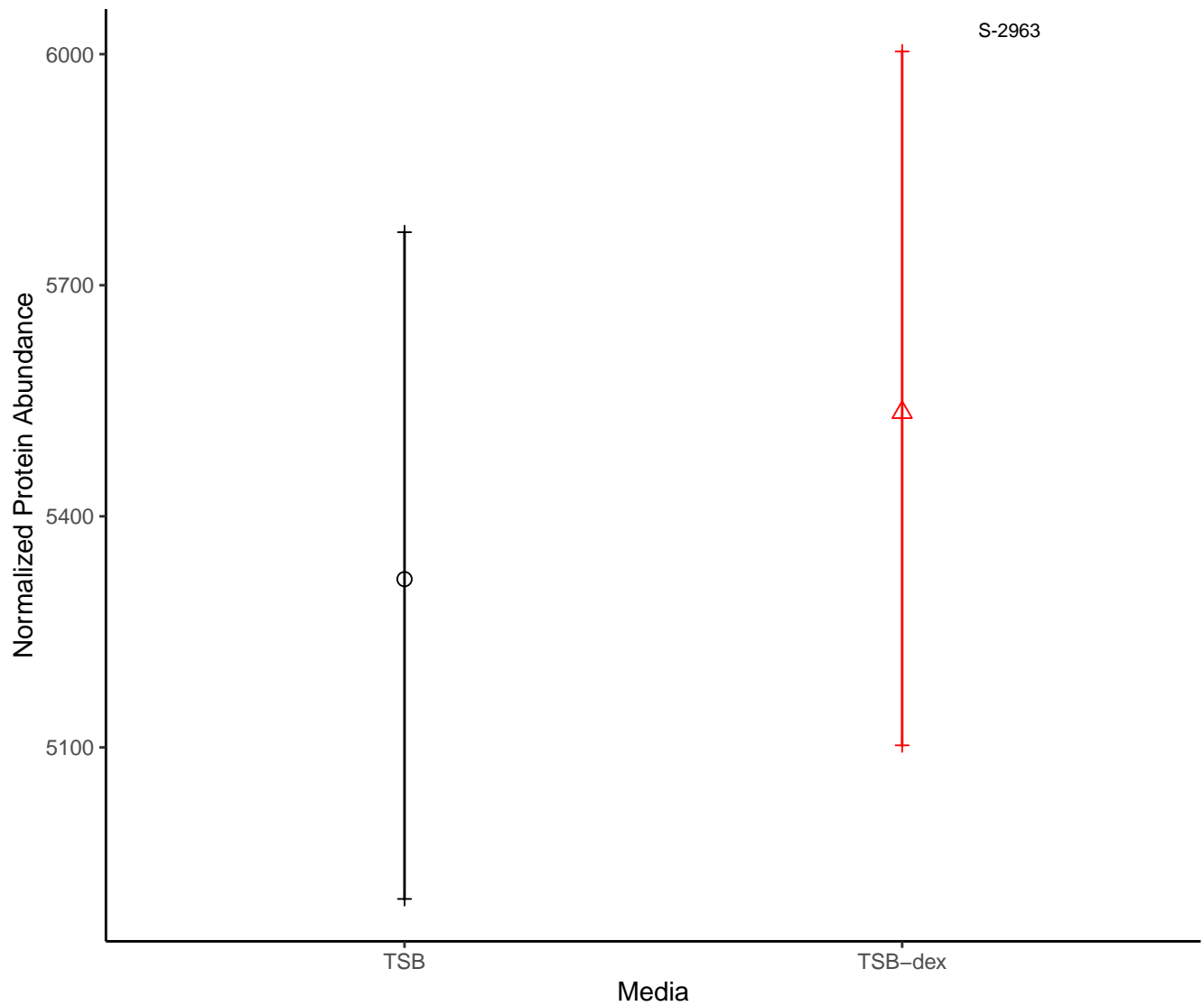
⊕ TSB-dex

△ TSB

# XERD\_STAAM



# XPT\_STAAM

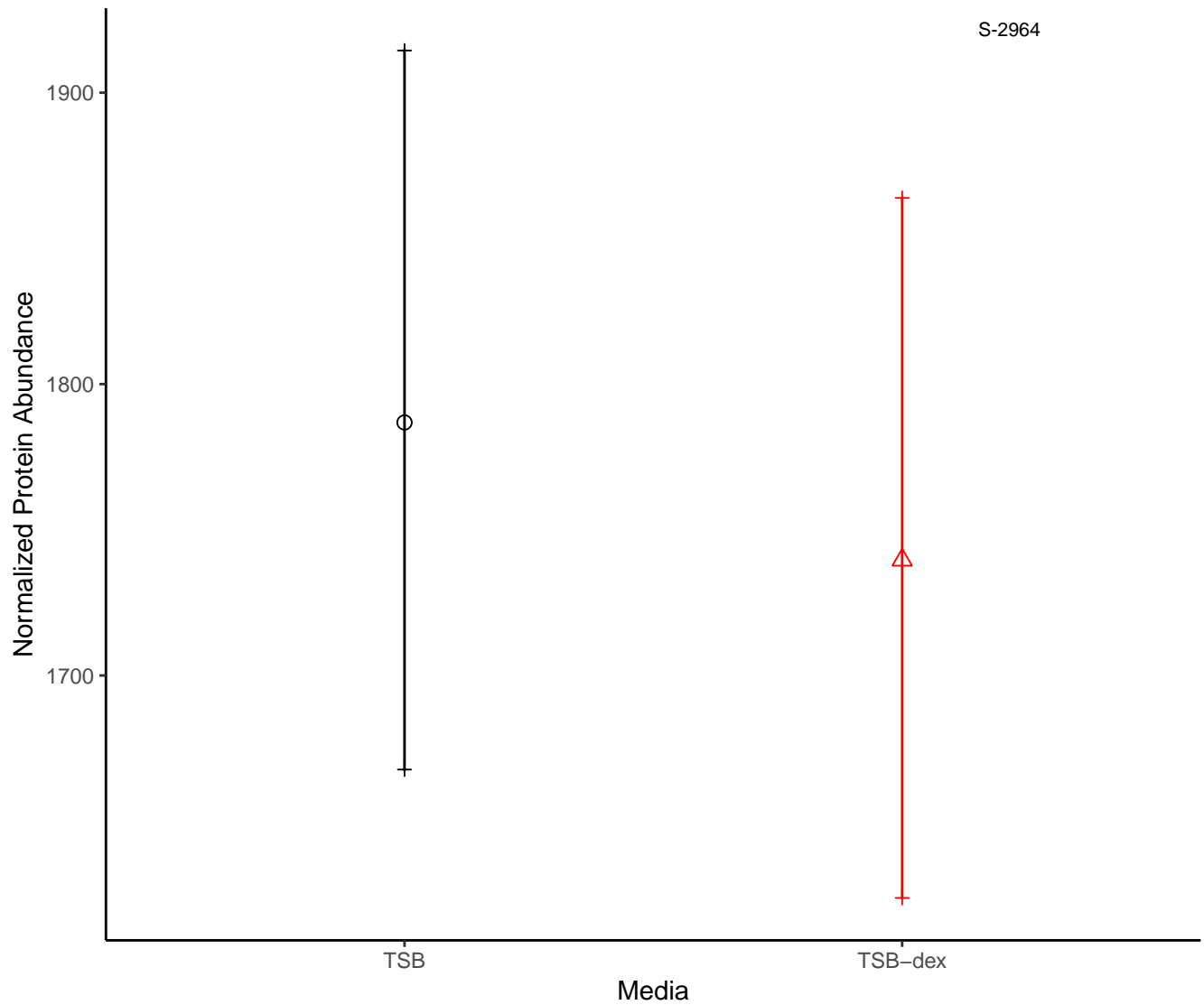


⊕ TSB-dex

△ TSB

# Y098\_STAAM

S-2964

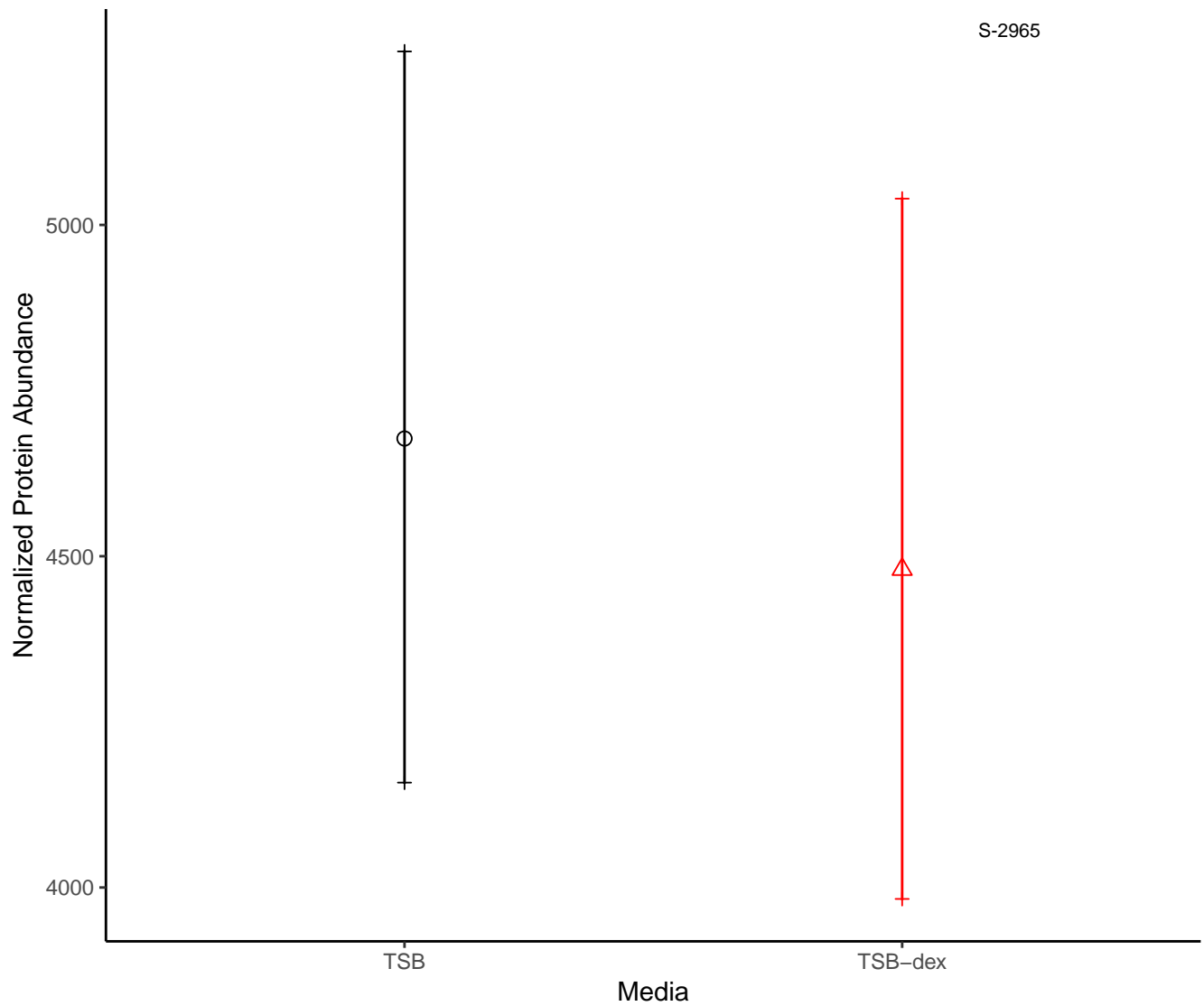


⊕ TSB-dex

△ TSB

# Y099\_STAAM

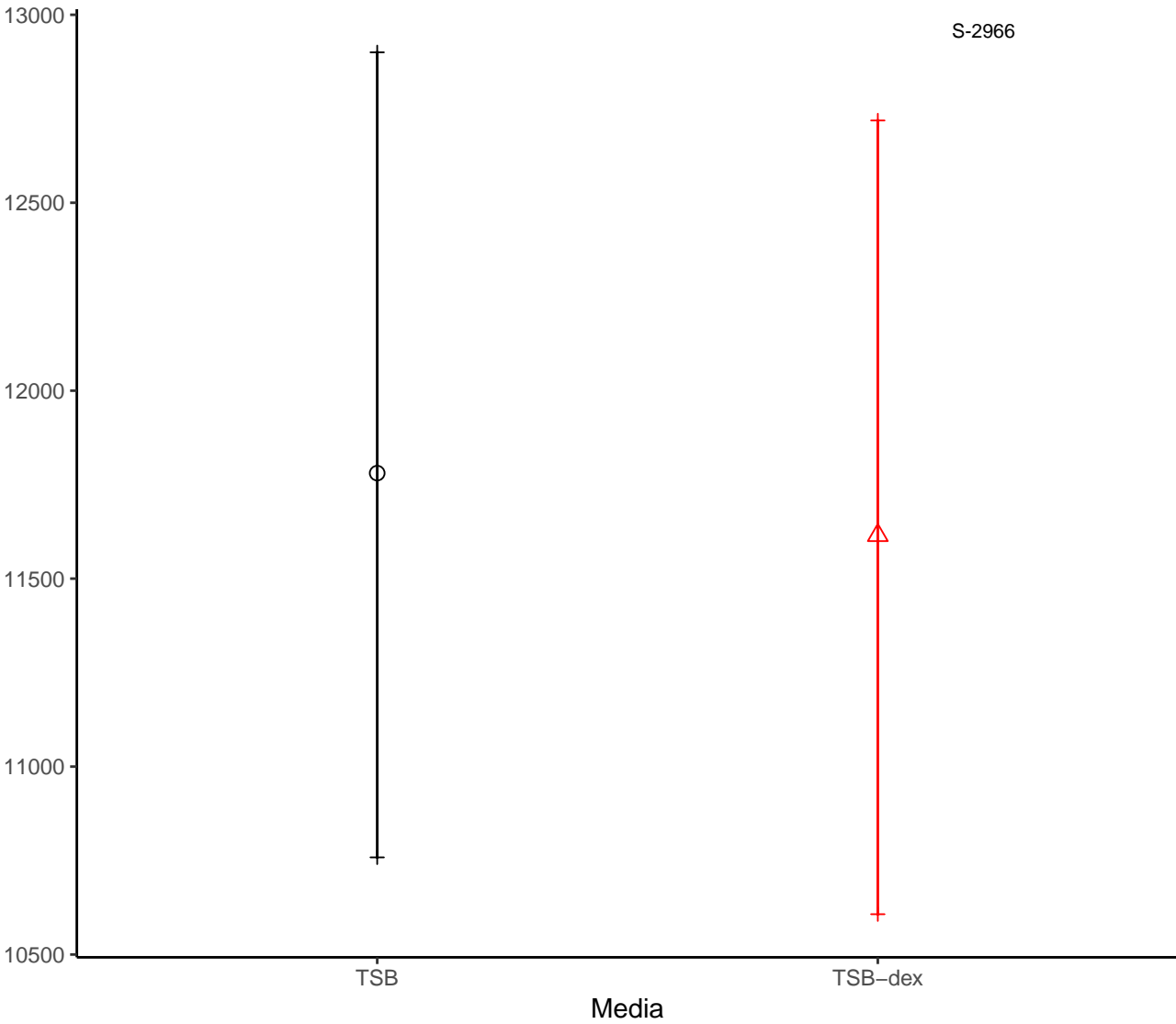
S-2965



⊕ TSB-dex

△ TSB

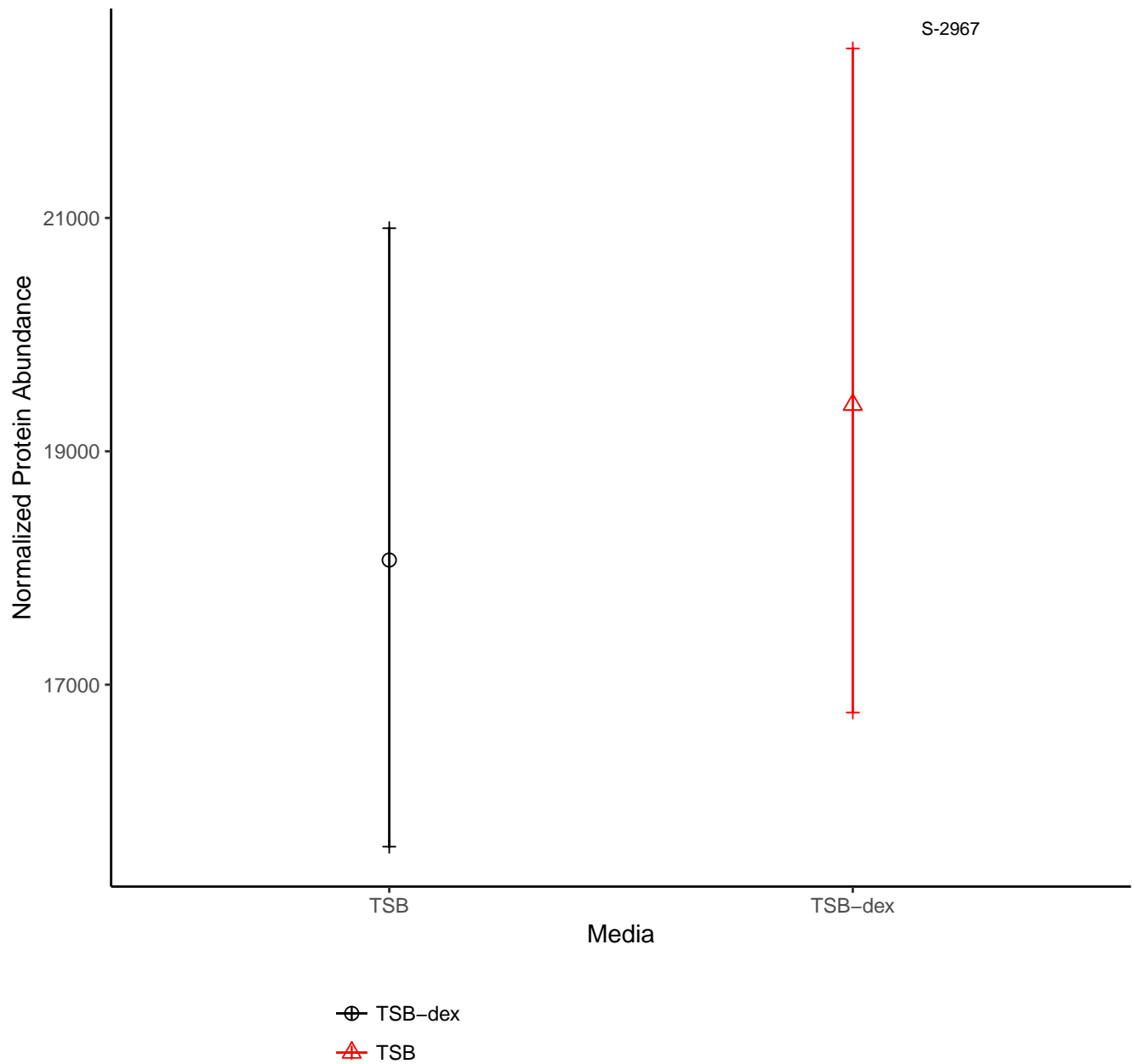
# Y1015\_STAAM



⊕ TSB-dex

△ TSB

# Y1090\_STAAM



# Y1176\_STAAM

Normalized Protein Abundance

S-2968

14000

13000

12000

11000

10000

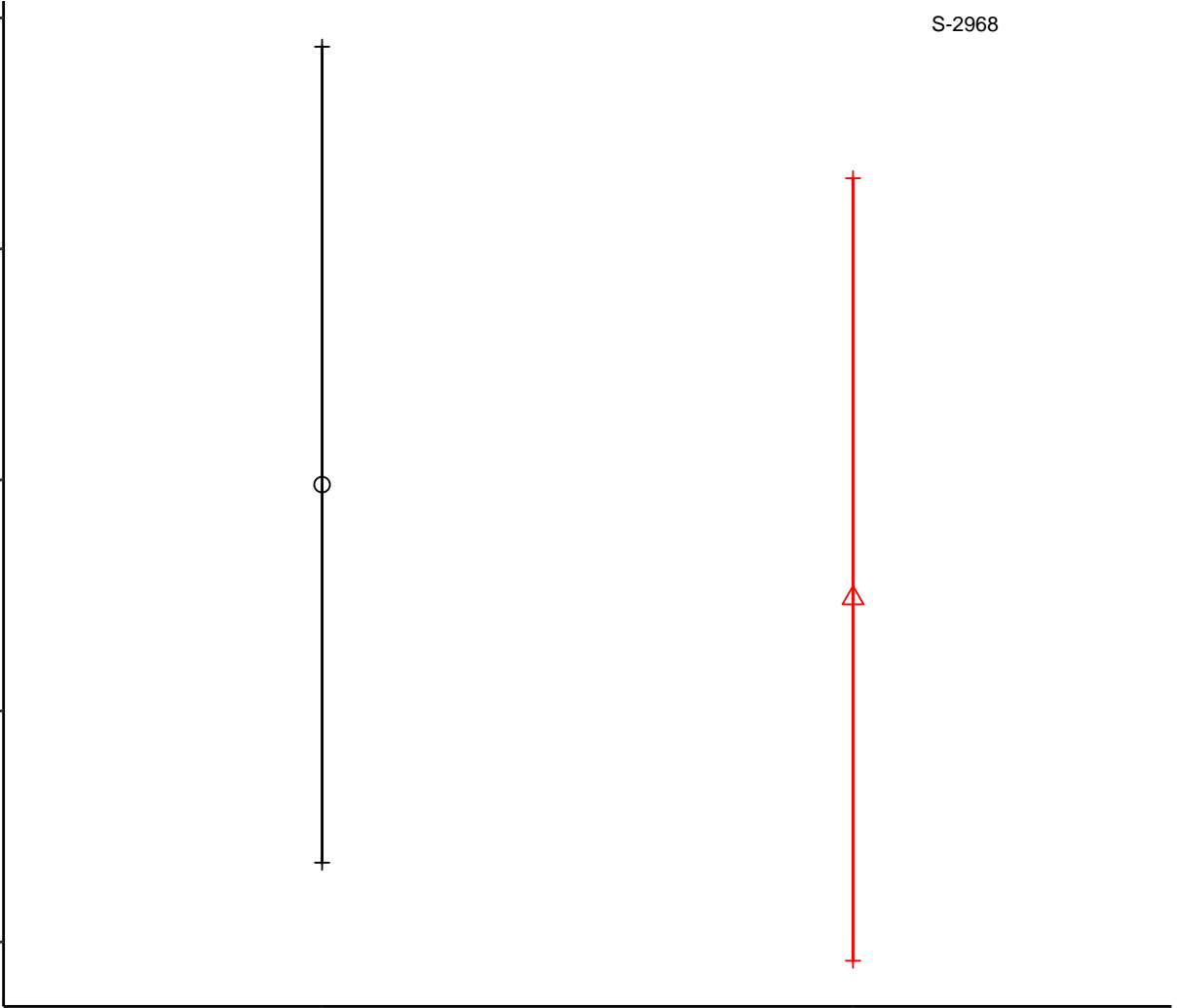
TSB

TSB-dex

Media

⊕ TSB-dex

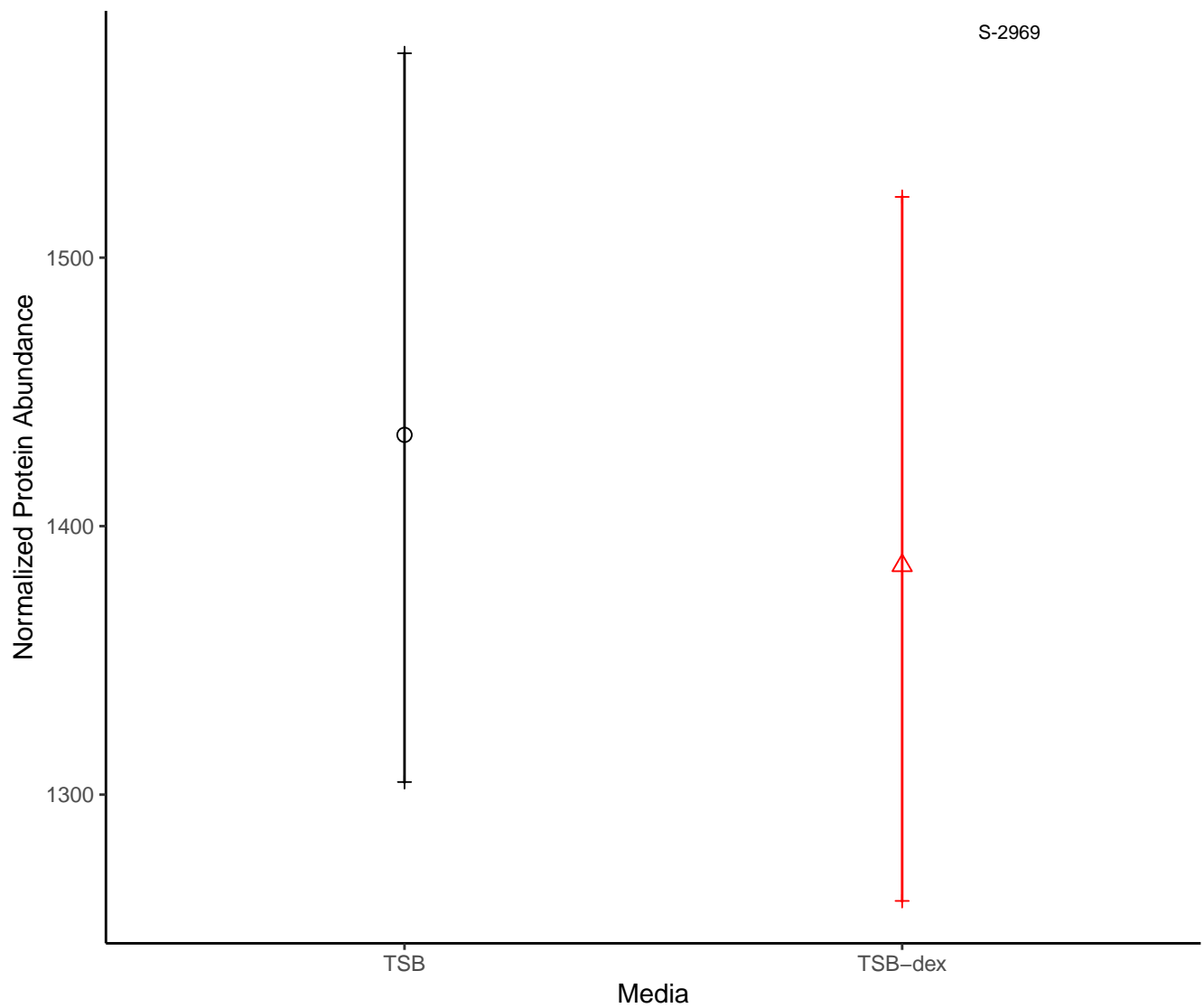
△ TSB





# Y1177\_STAAM

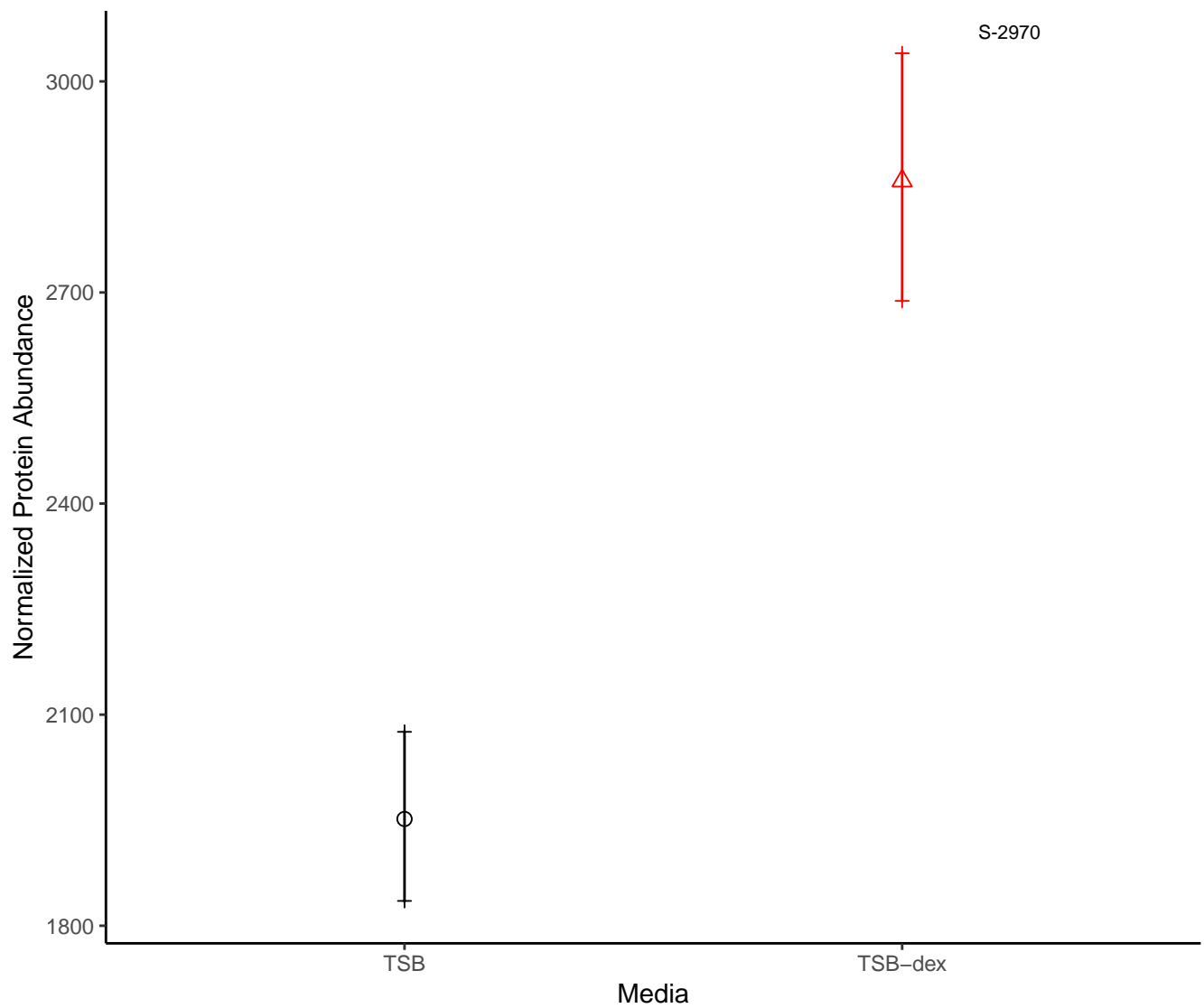
S-2969



⊕ TSB-dex

△ TSB

# Y1187\_STAAM

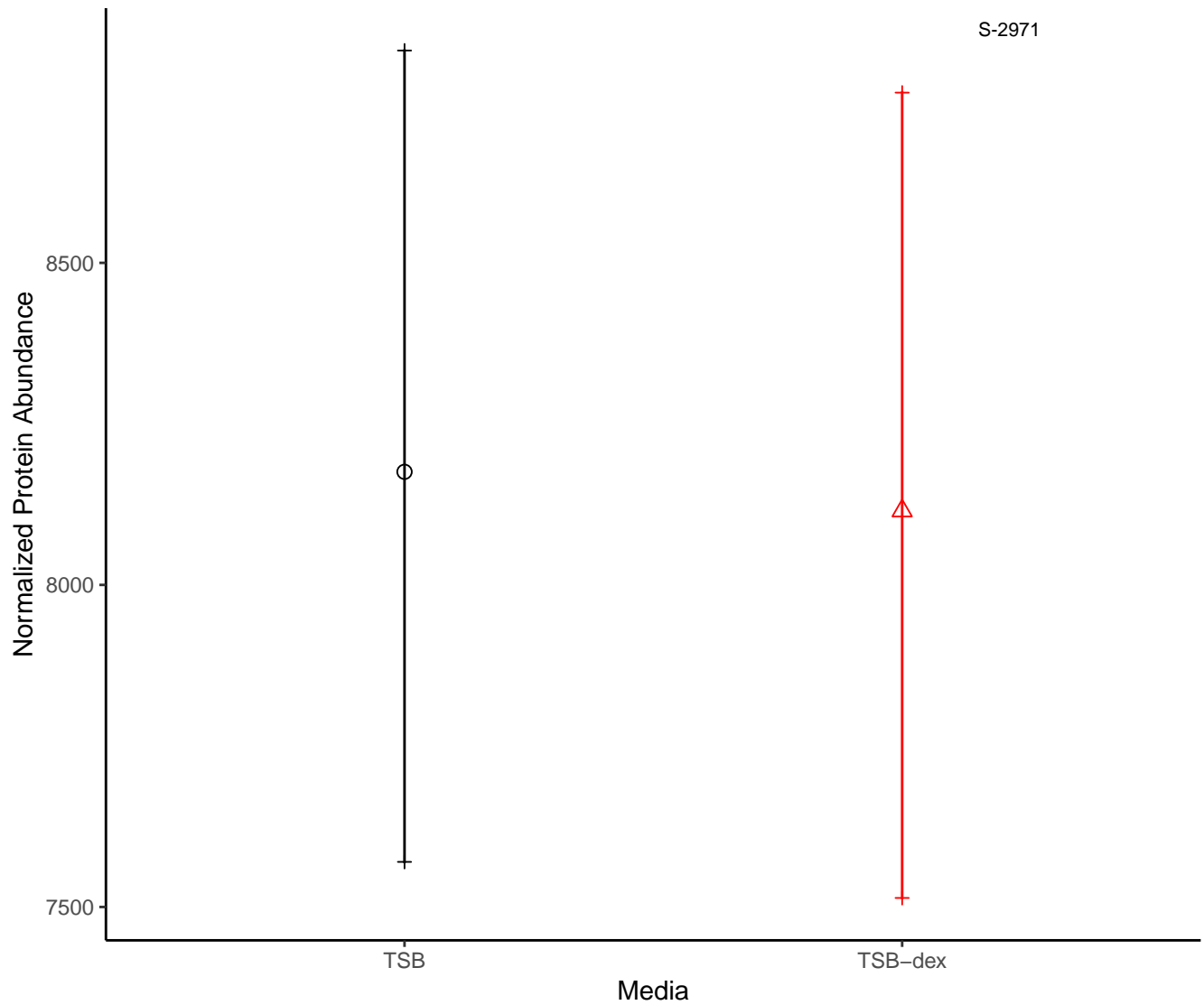


⊕ TSB-dex

△ TSB

# Y1226\_STAAM

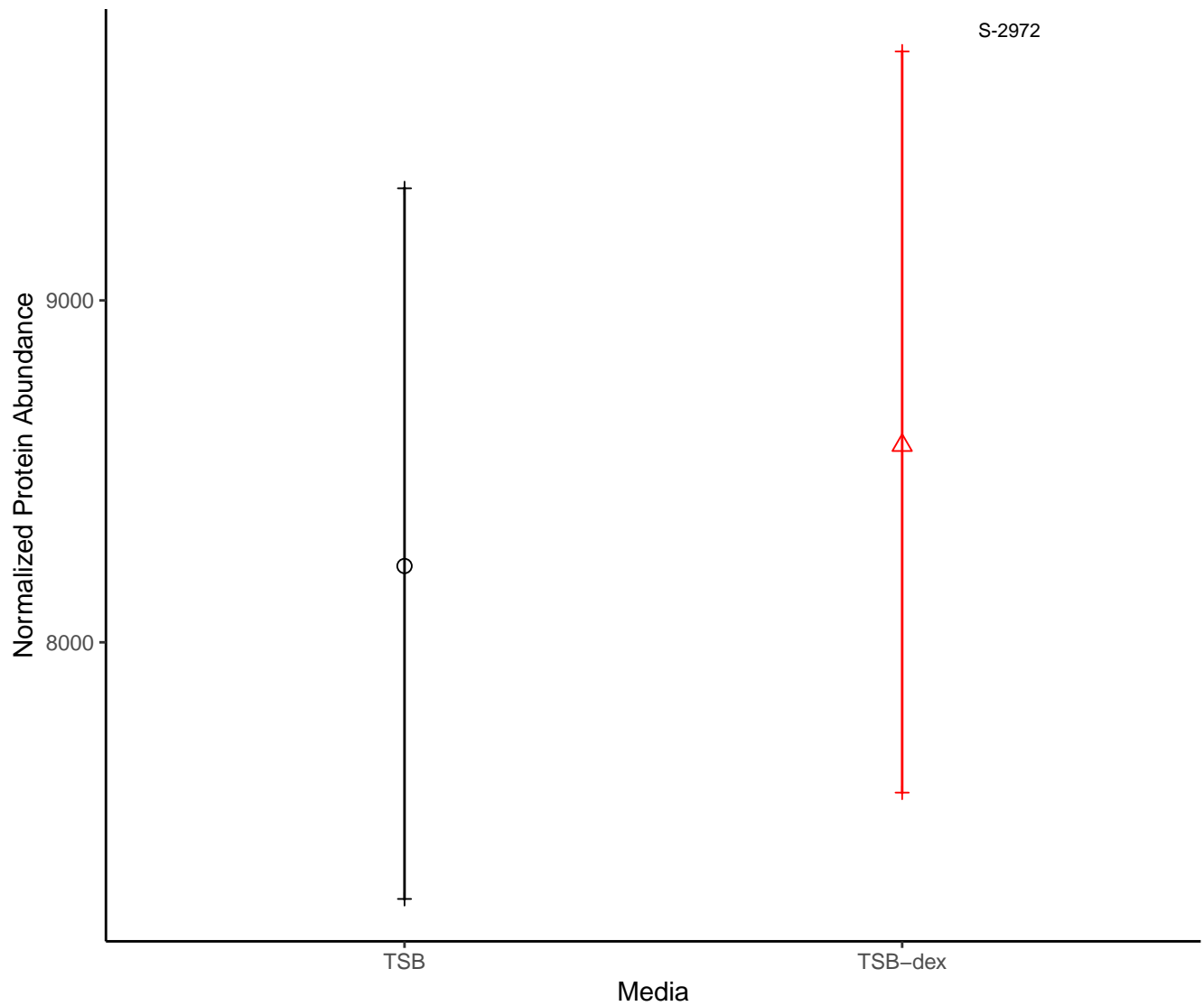
S-2971



⊕ TSB-dex

△ TSB

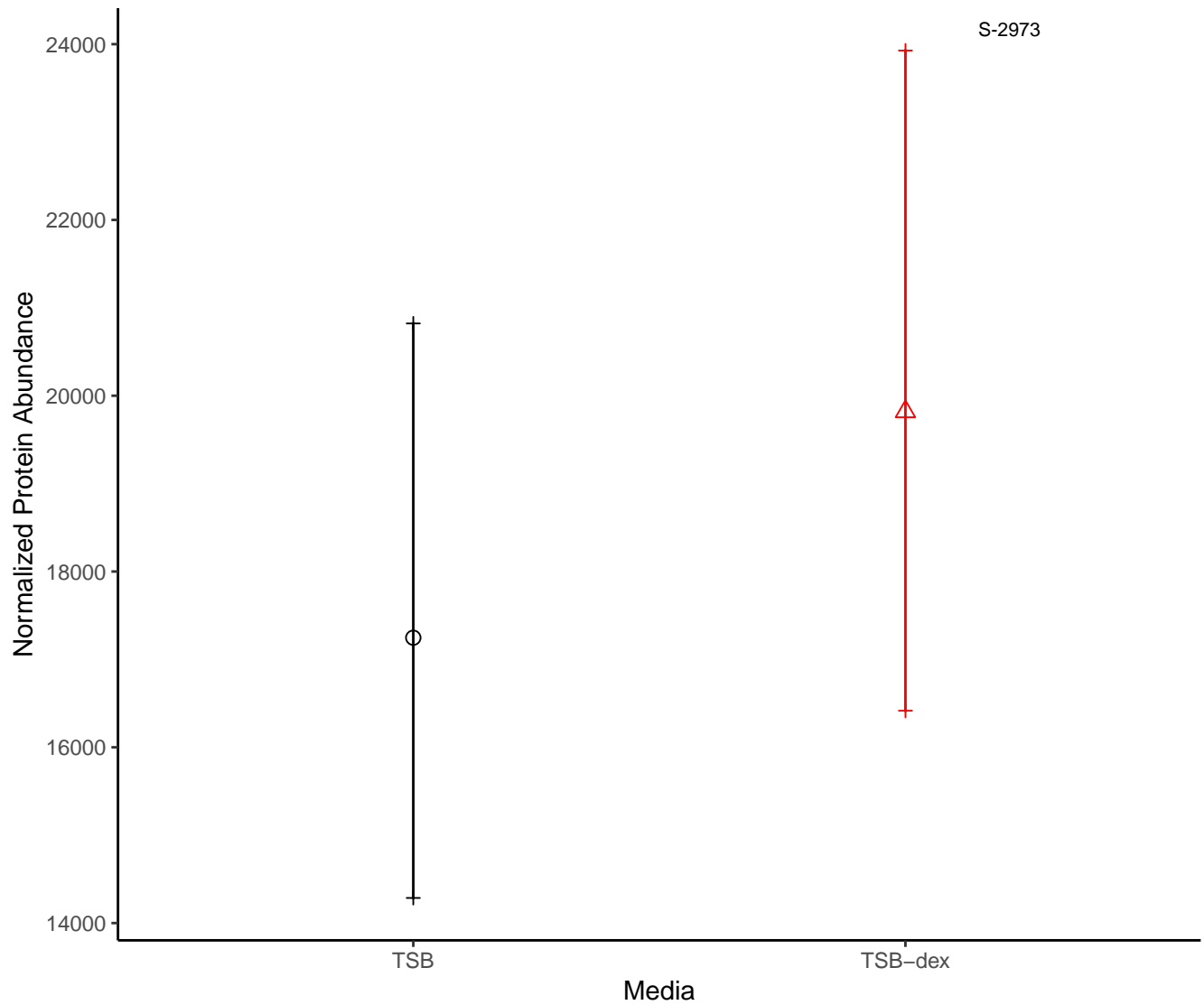
# Y1341\_STAAM



⊕ TSB-dex

△ TSB

# Y1343\_STAAM

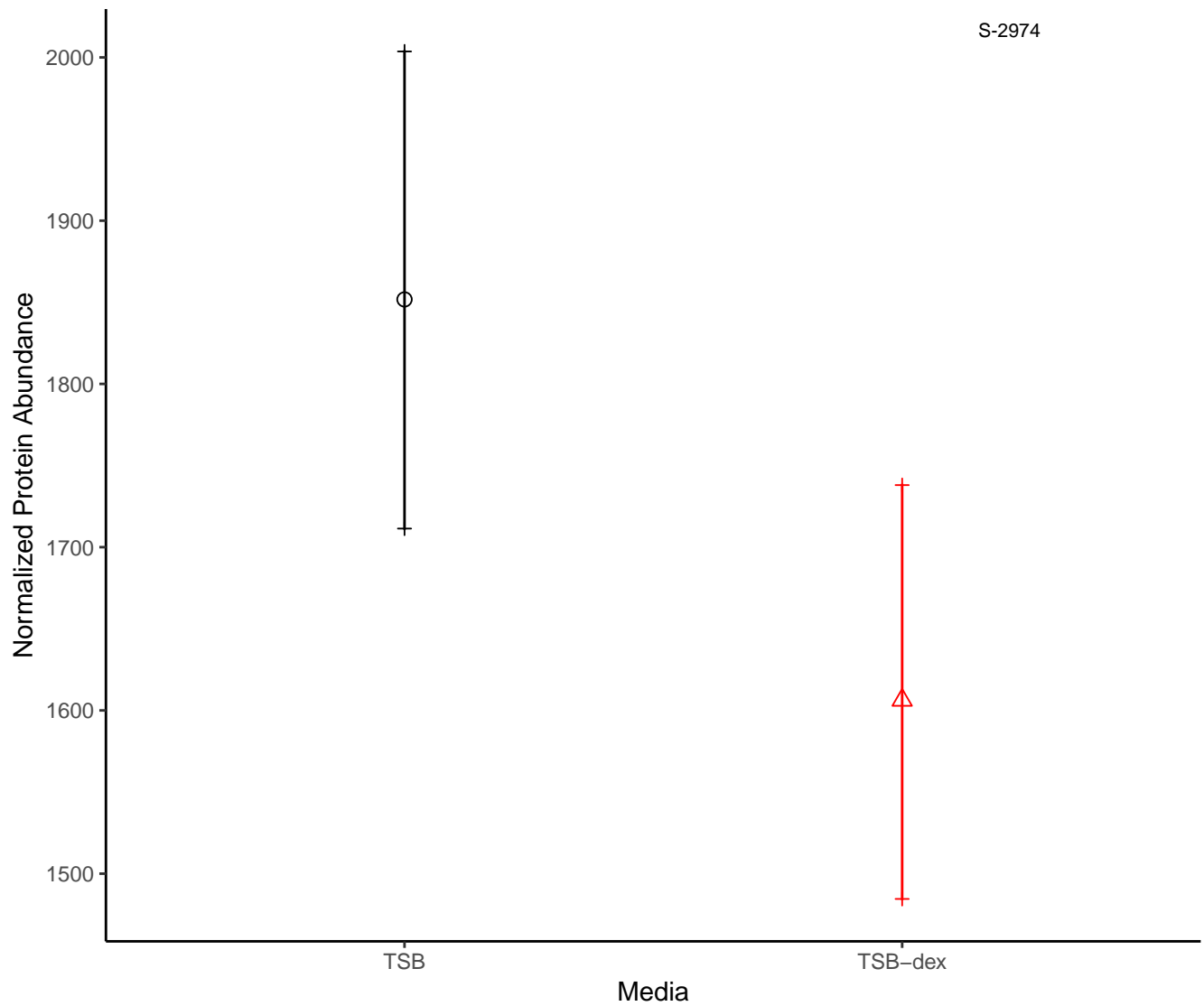


⊕ TSB-dex

△ TSB

# Y1352\_STAAM

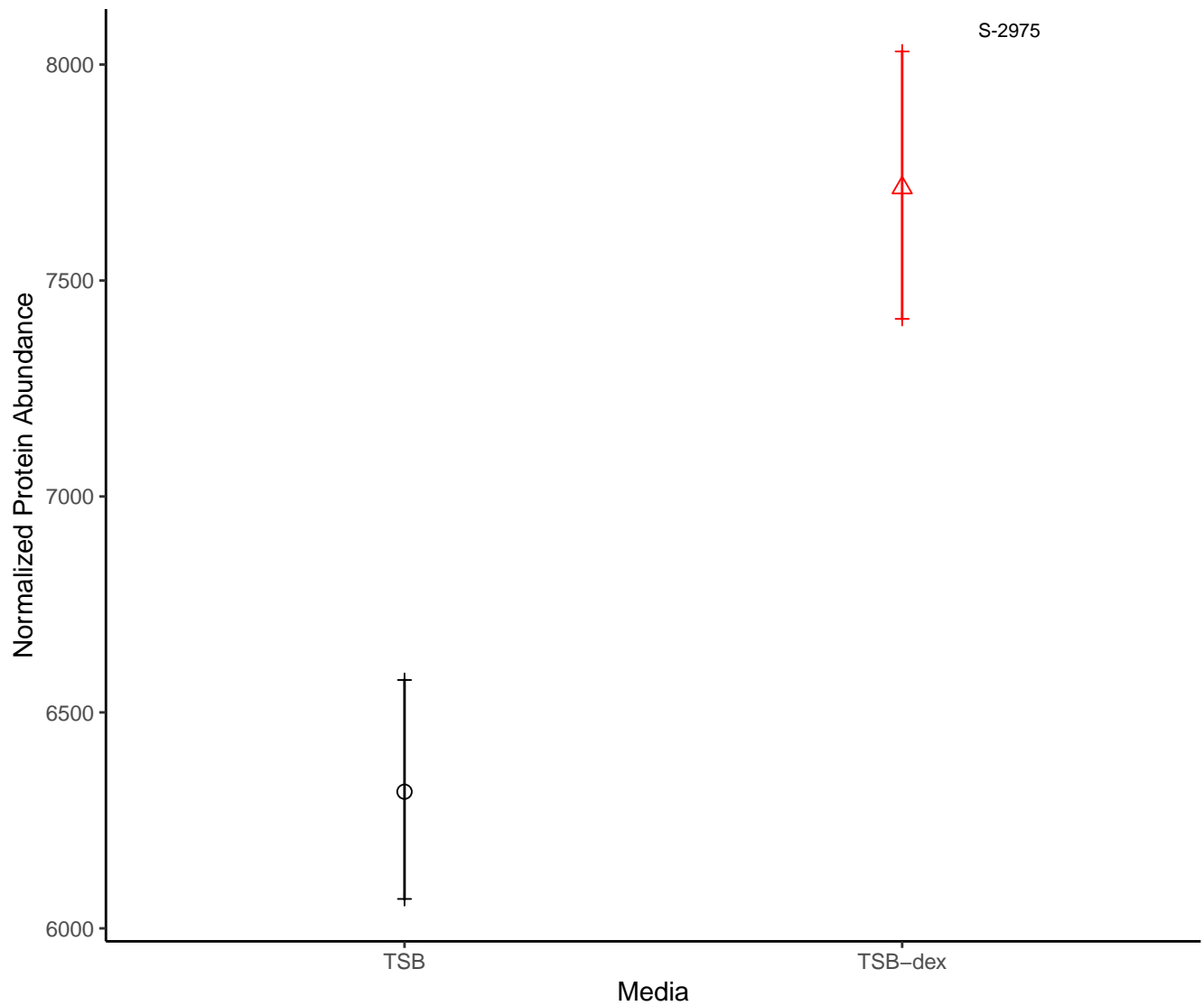
S-2974



⊕ TSB-dex

△ TSB

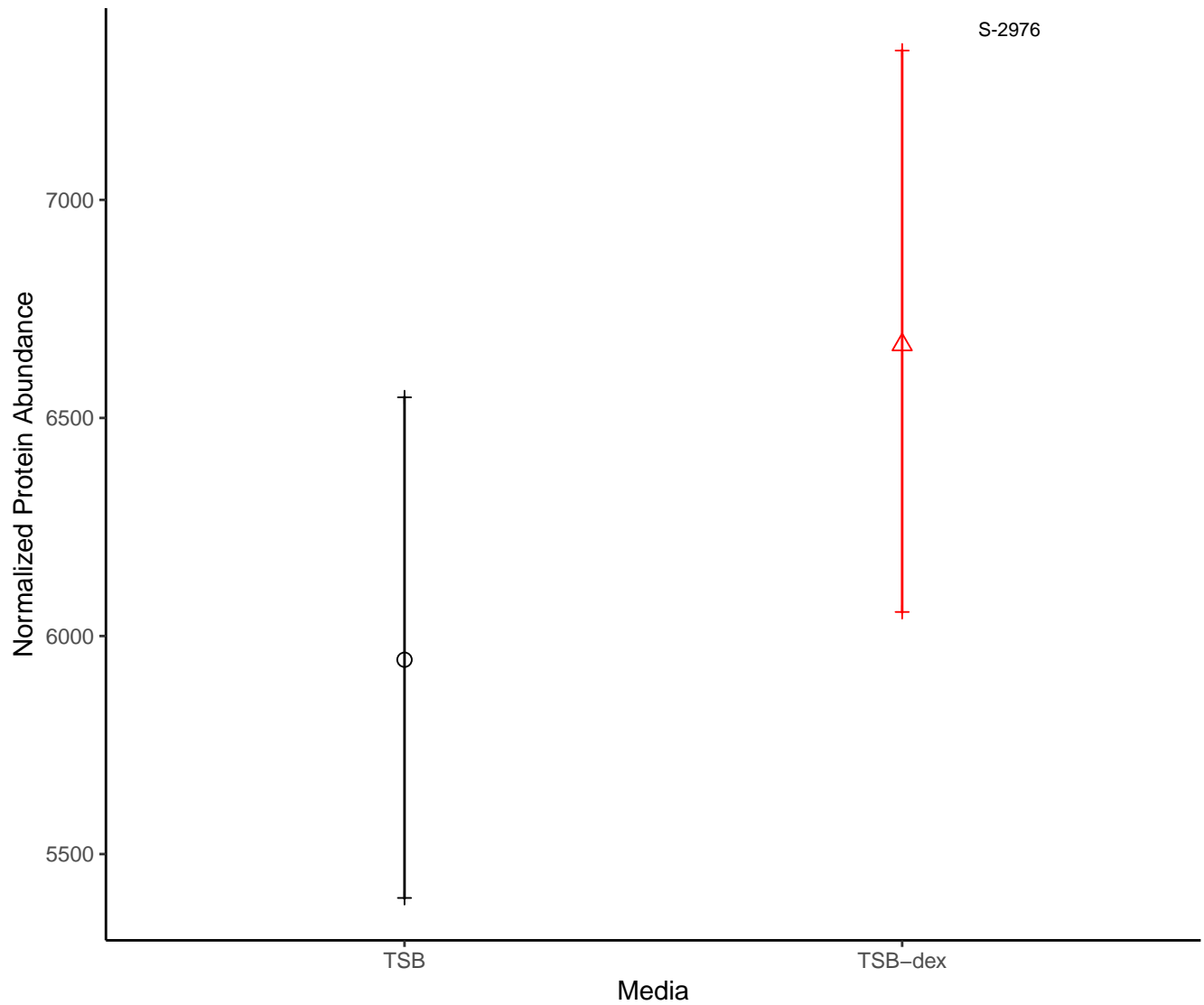
# Y1363\_STAAM



⊕ TSB-dex

△ TSB

# Y1409\_STAAM



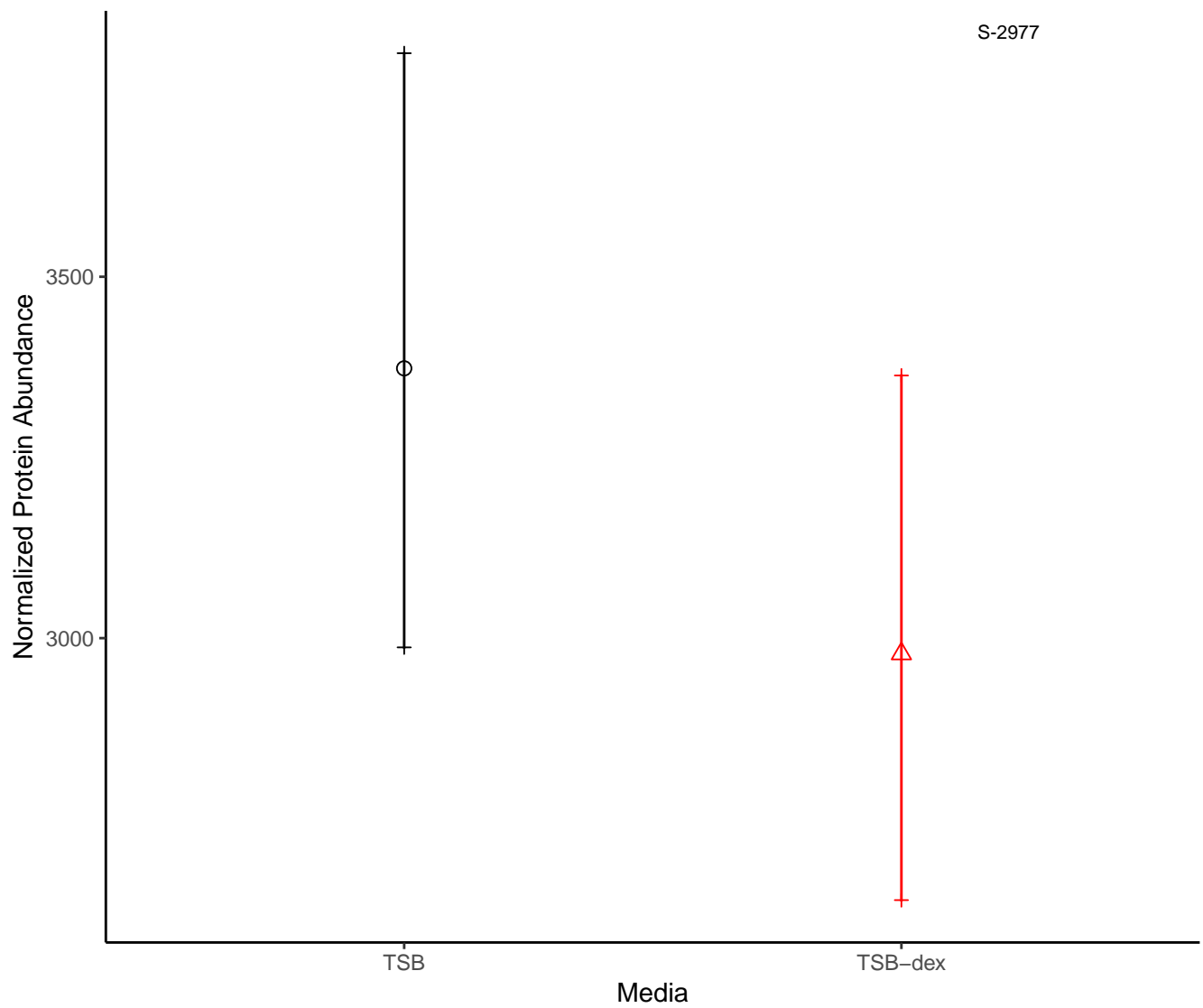
⊕ TSB-dex

△ TSB



# Y1425\_STAAM

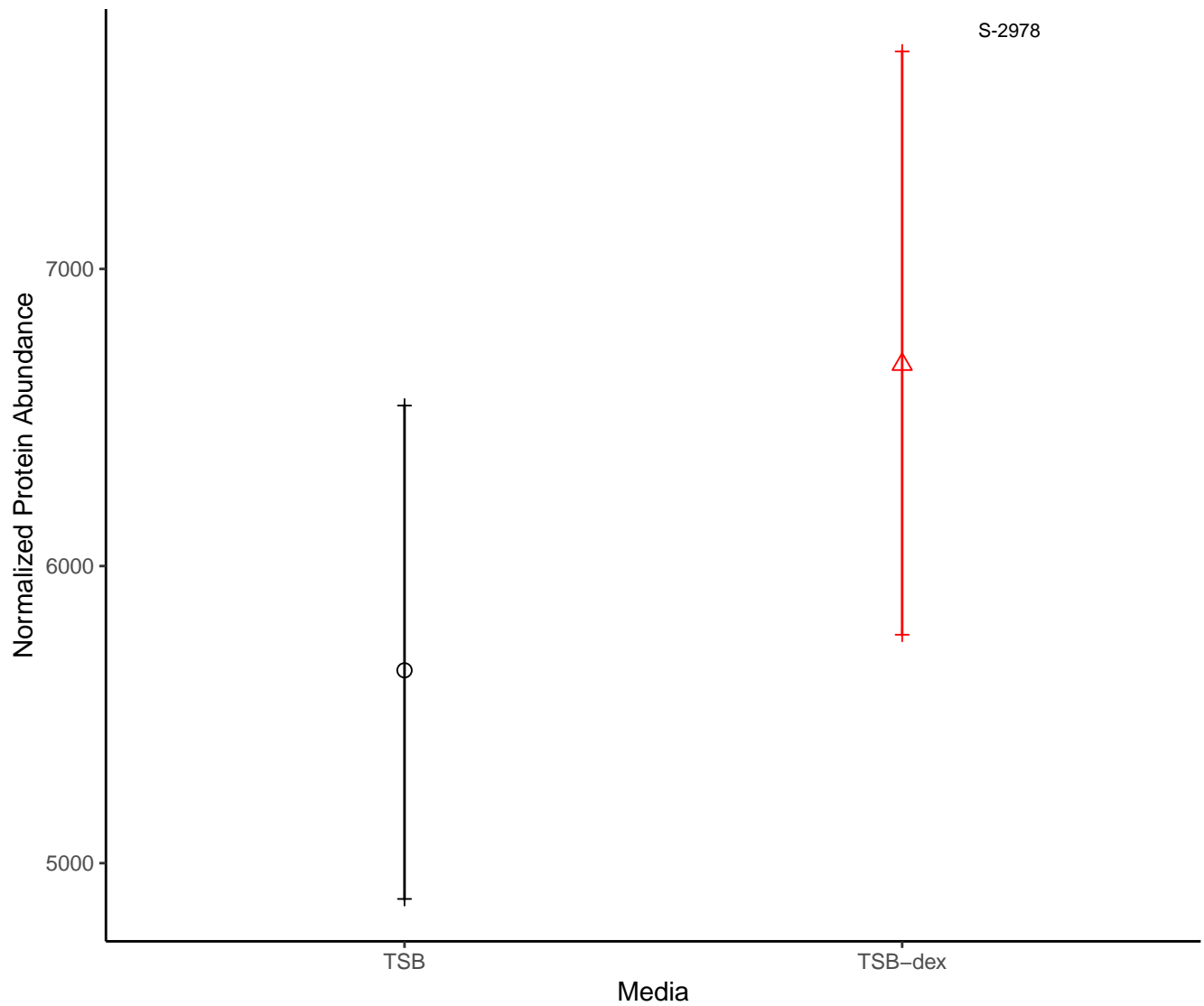
S-2977



⊕ TSB-dex

△ TSB

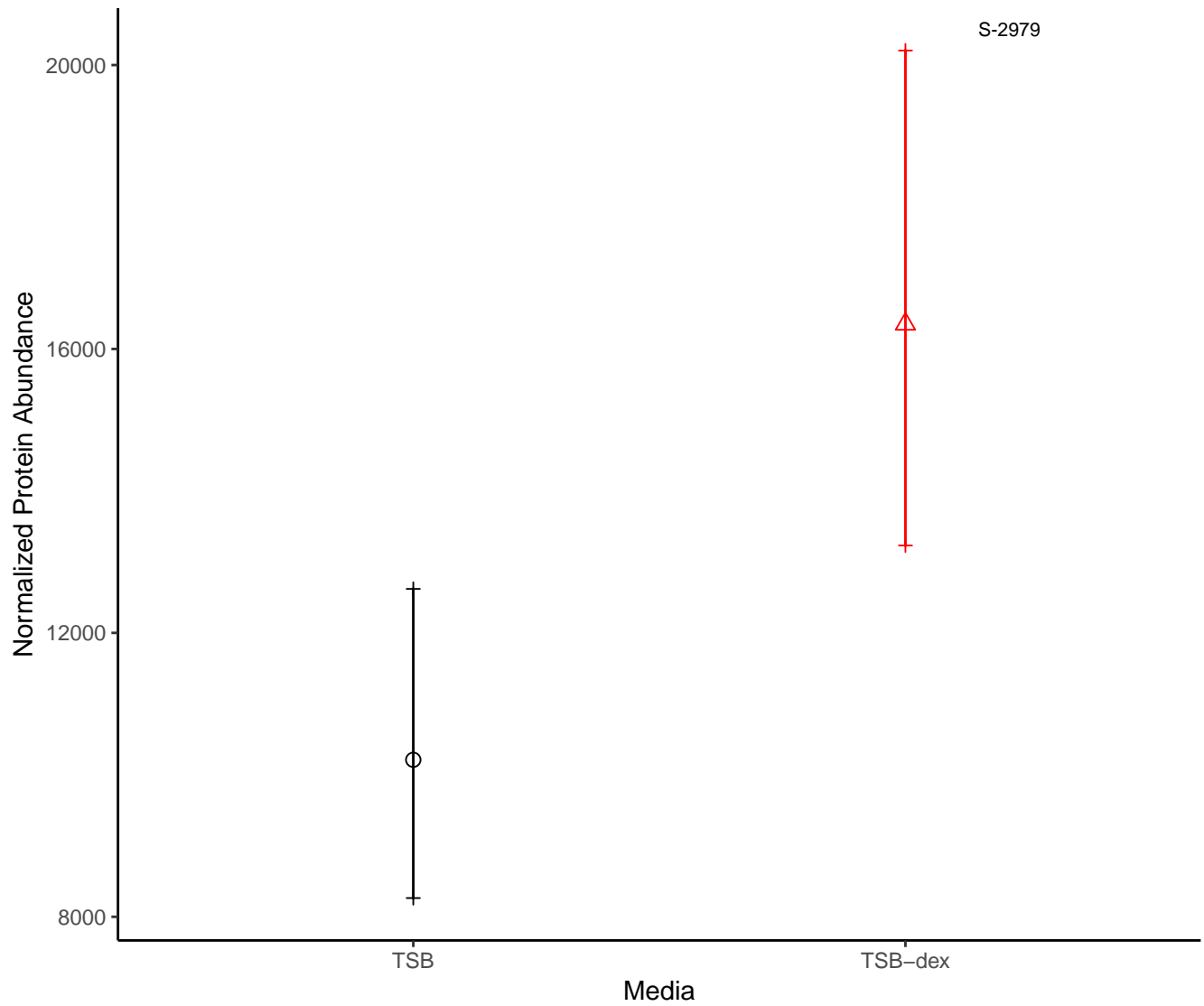
# Y1462\_STAAM



⊕ TSB-dex

△ TSB

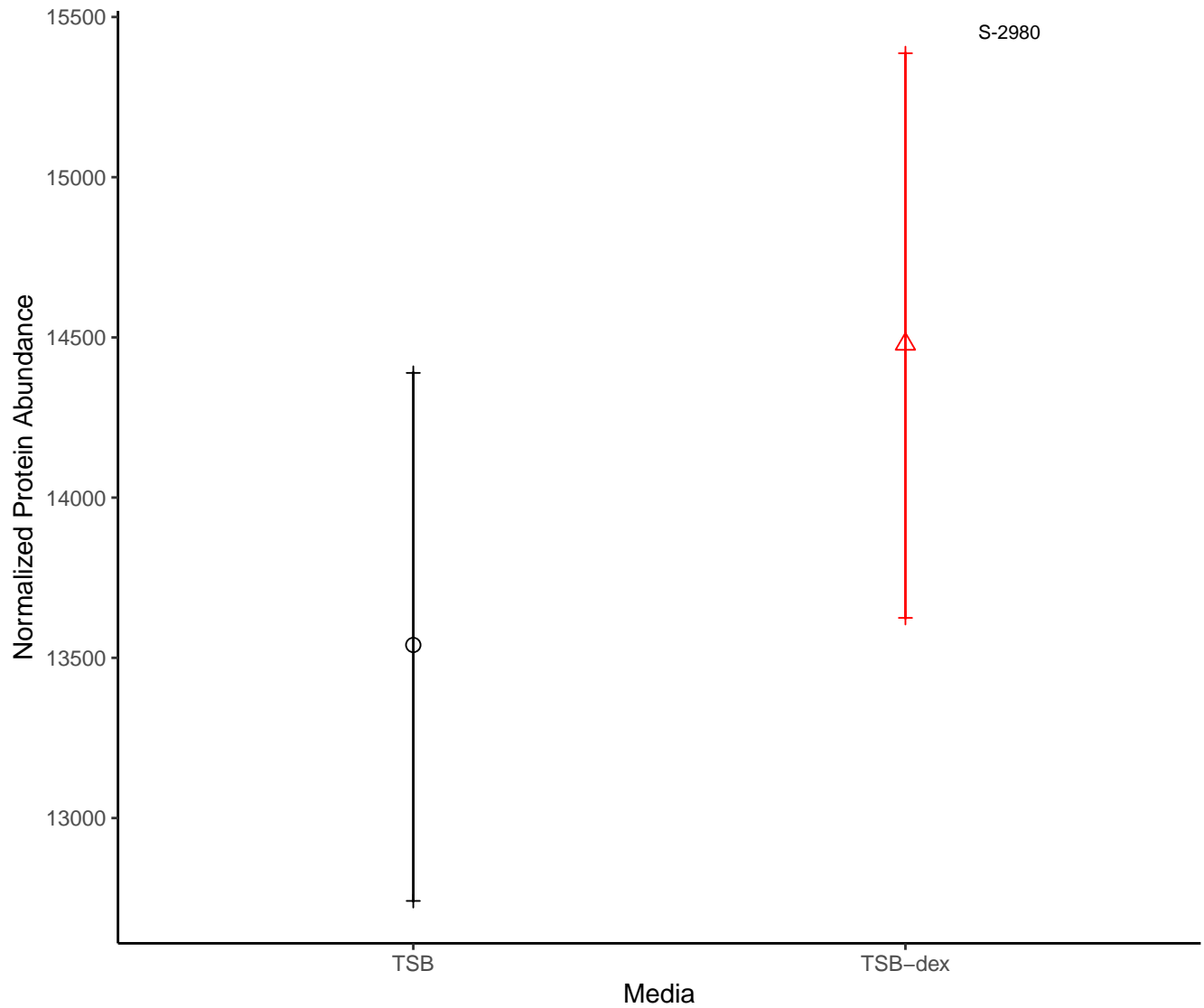
# Y1514\_STAAM



⊕ TSB-dex

△ TSB

# Y1573\_STAAM

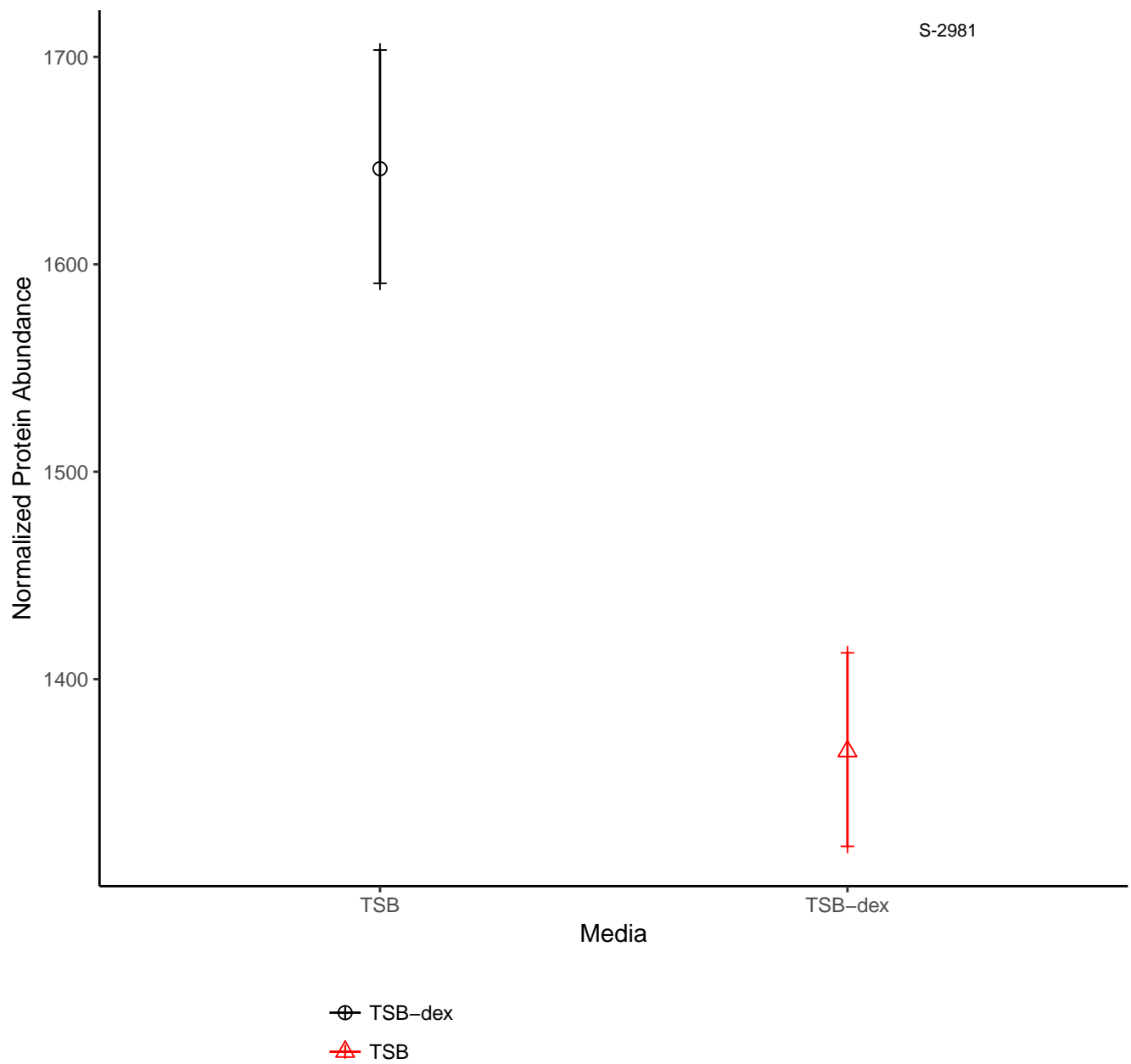


⊕ TSB-dex

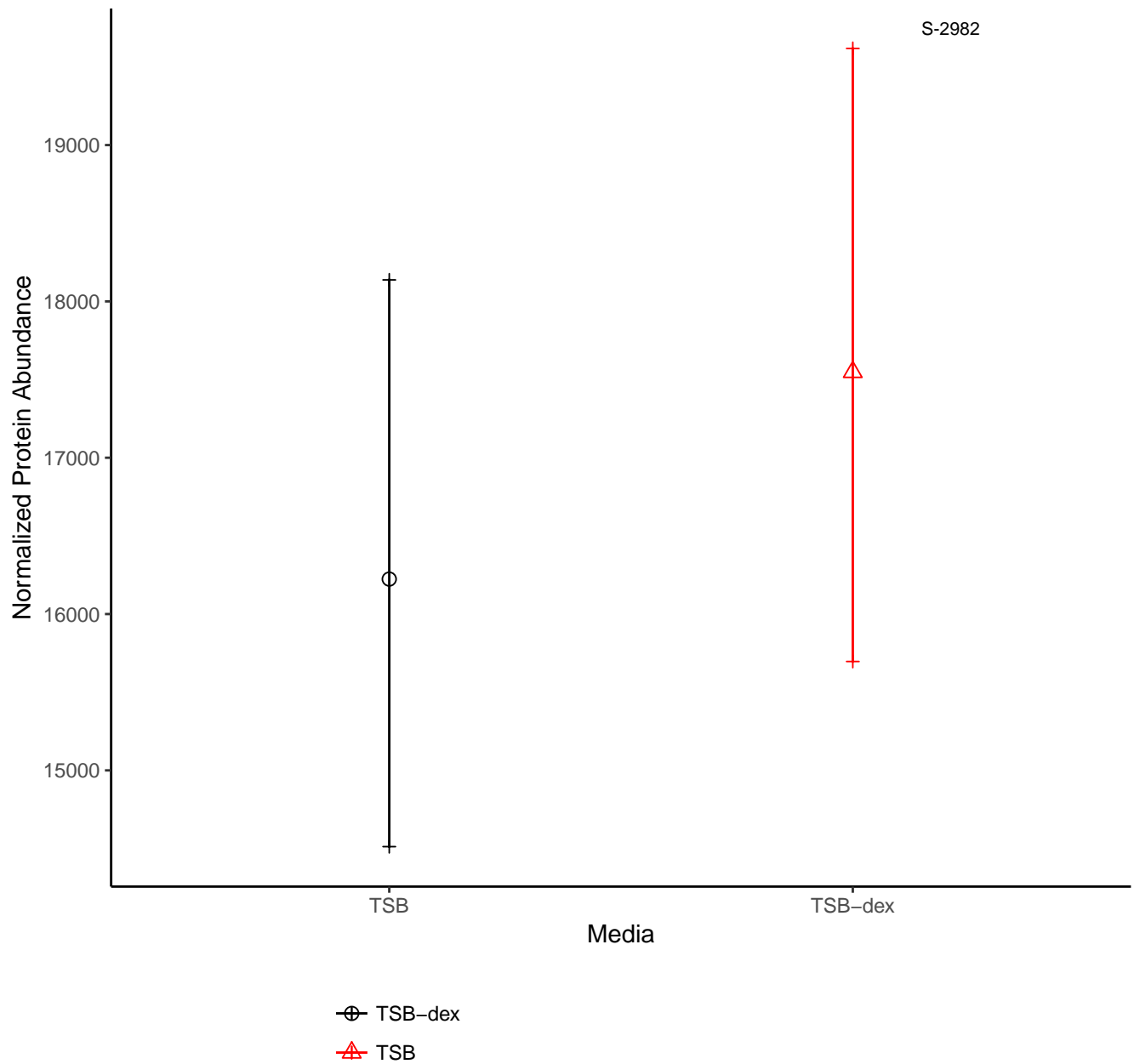
△ TSB

# Y1605\_STAAM

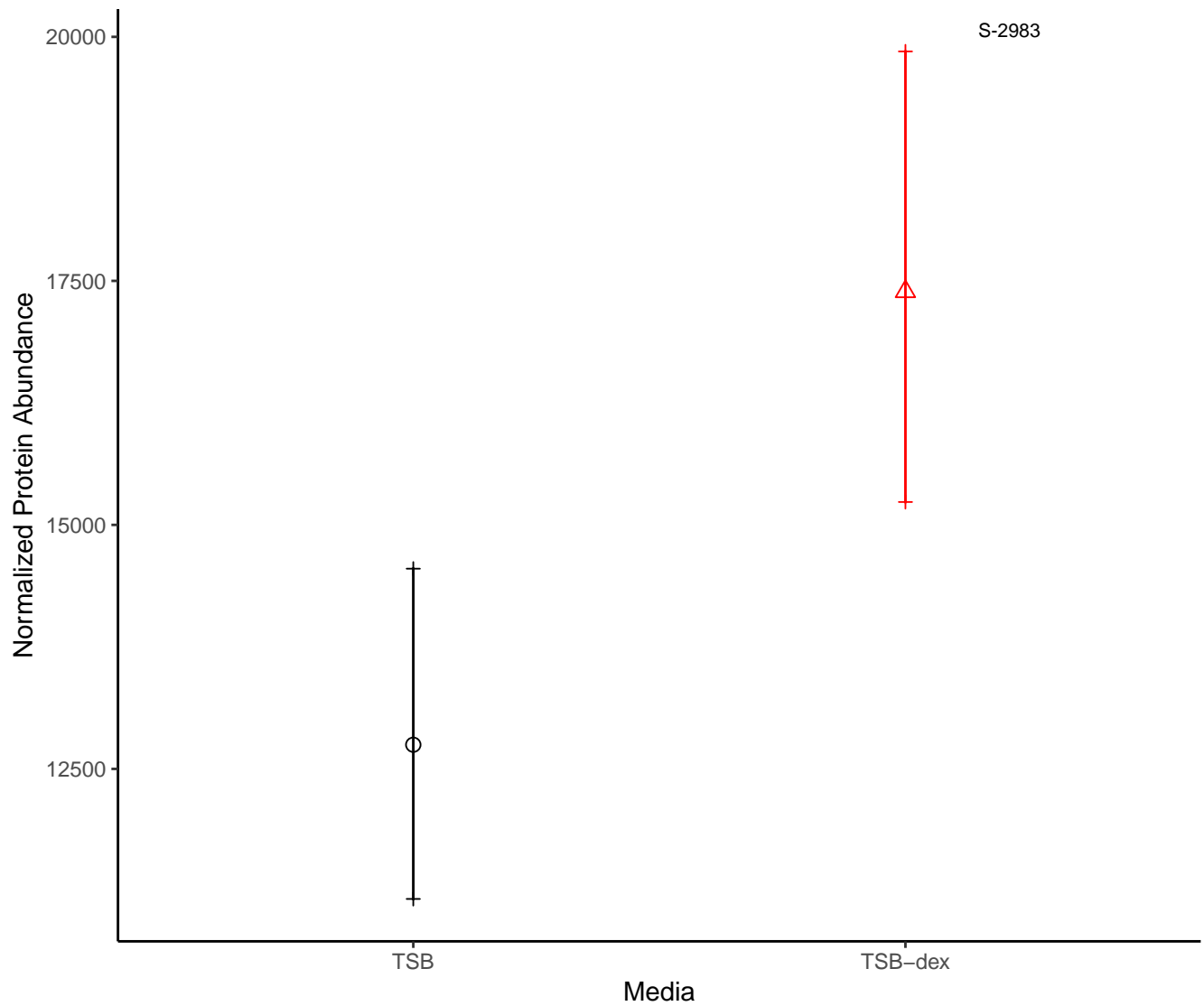
S-2981



# Y1617\_STAAM



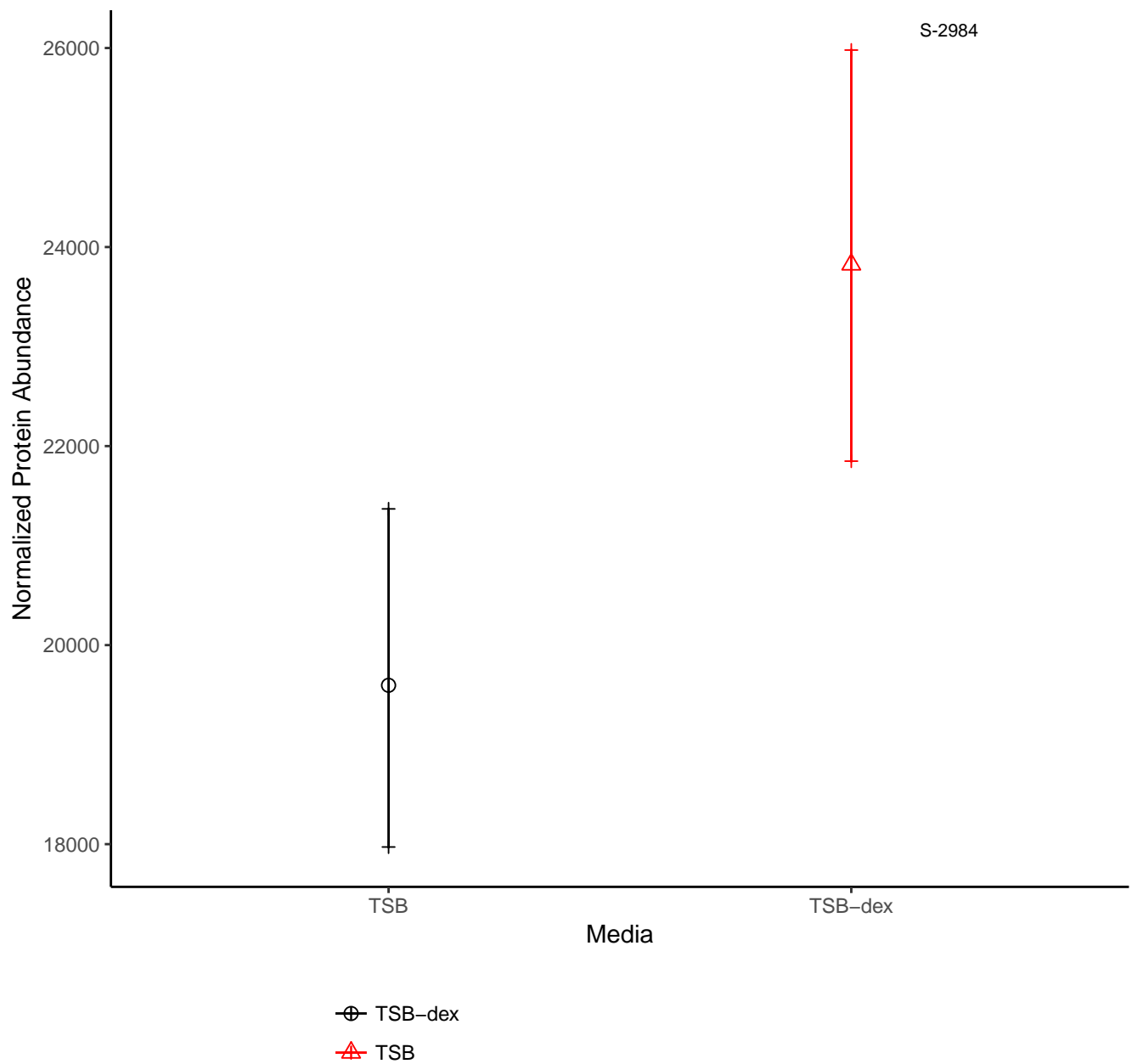
# Y1625\_STAAM



⊖ TSB-dex

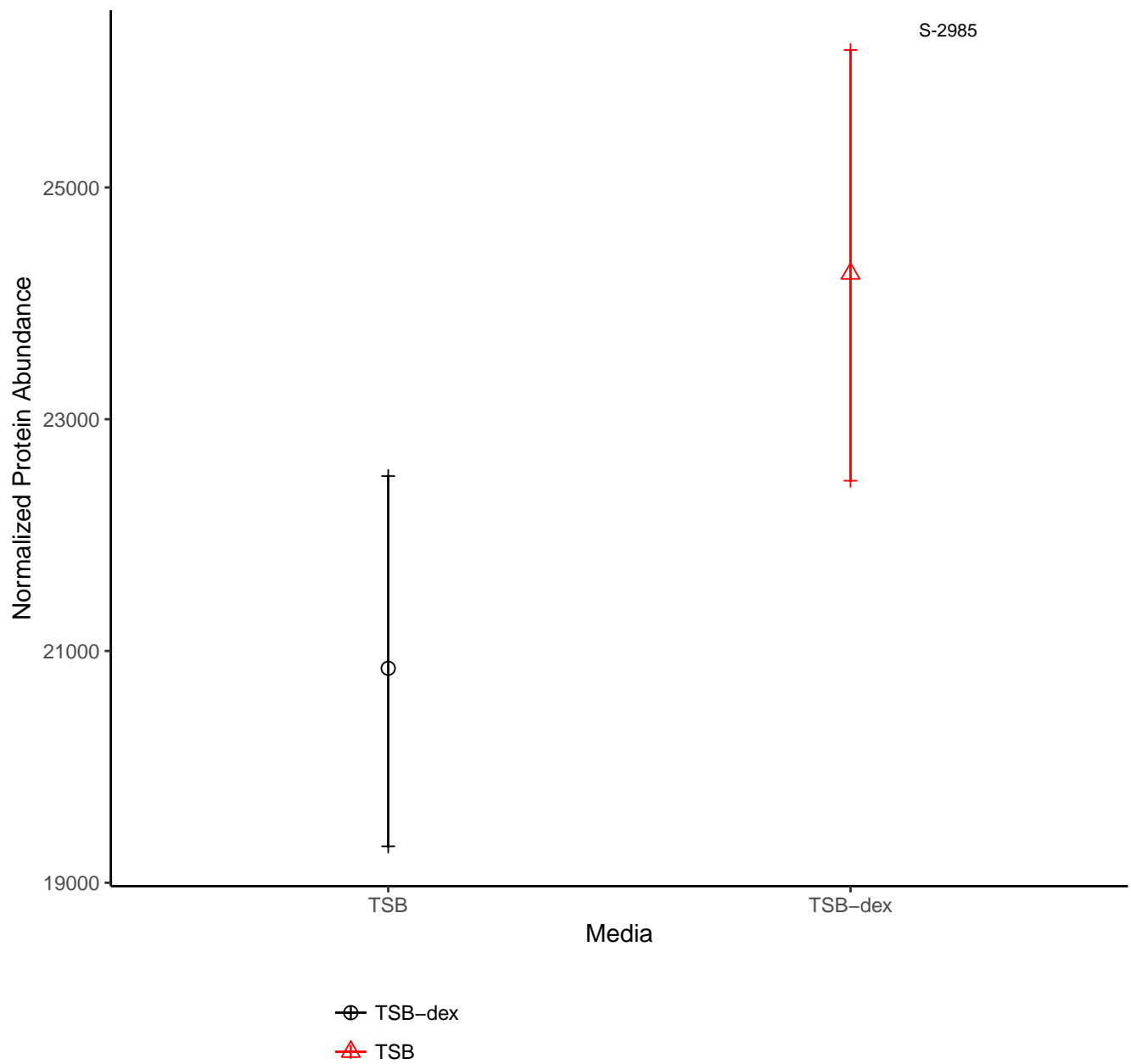
△ TSB

# Y1710\_STAAM

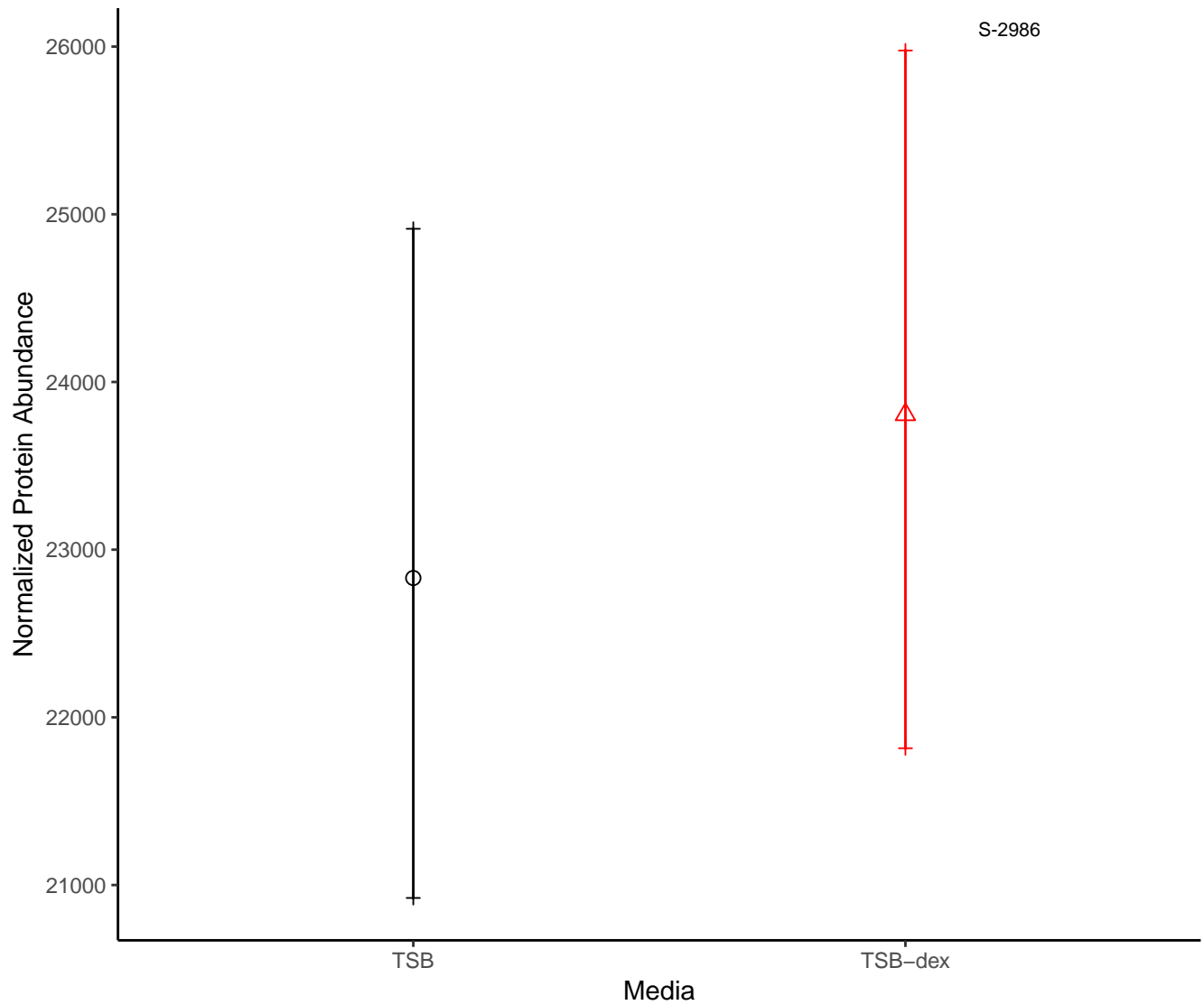




# Y1739\_STAAM



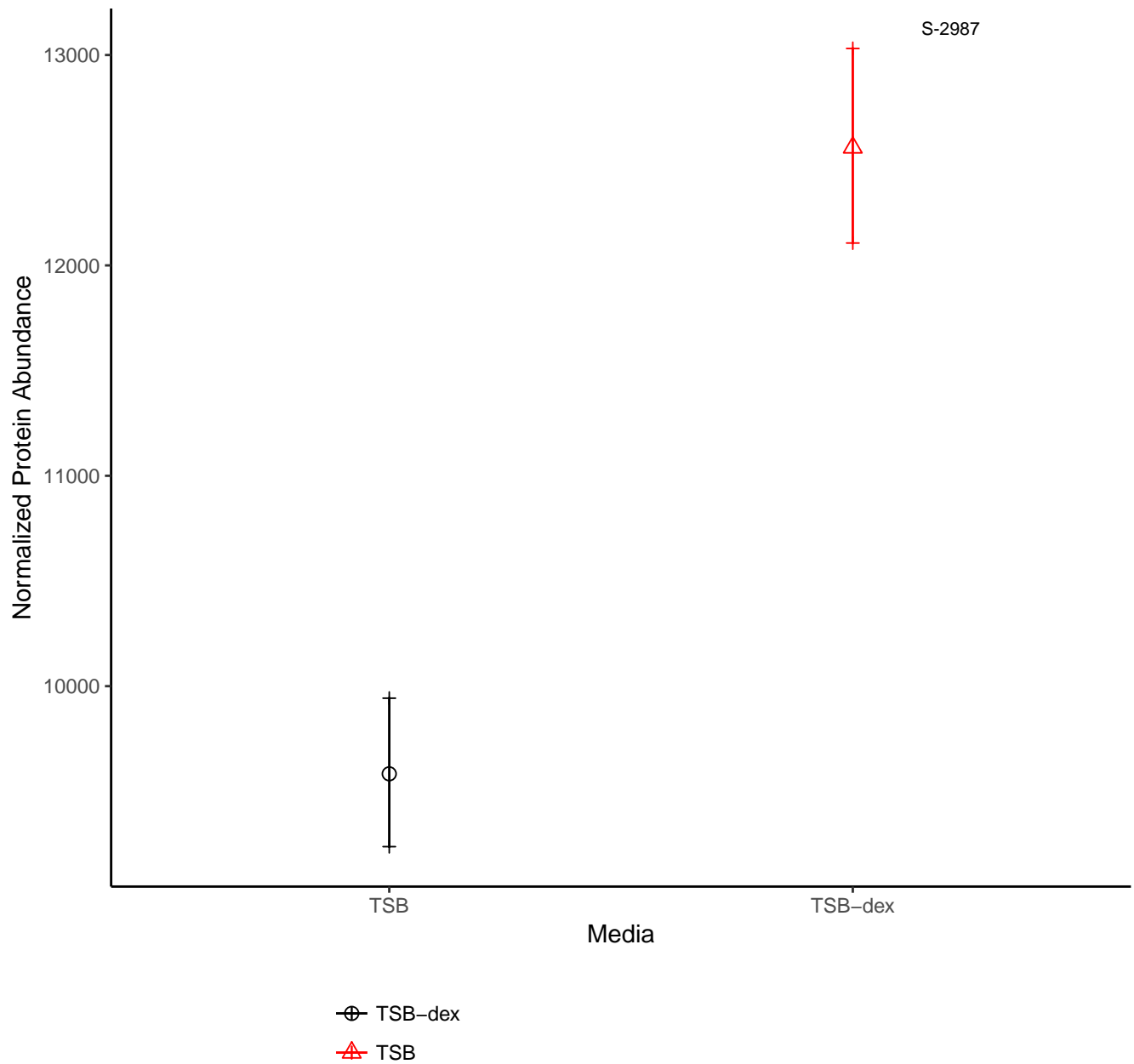
# Y1845\_STAAM



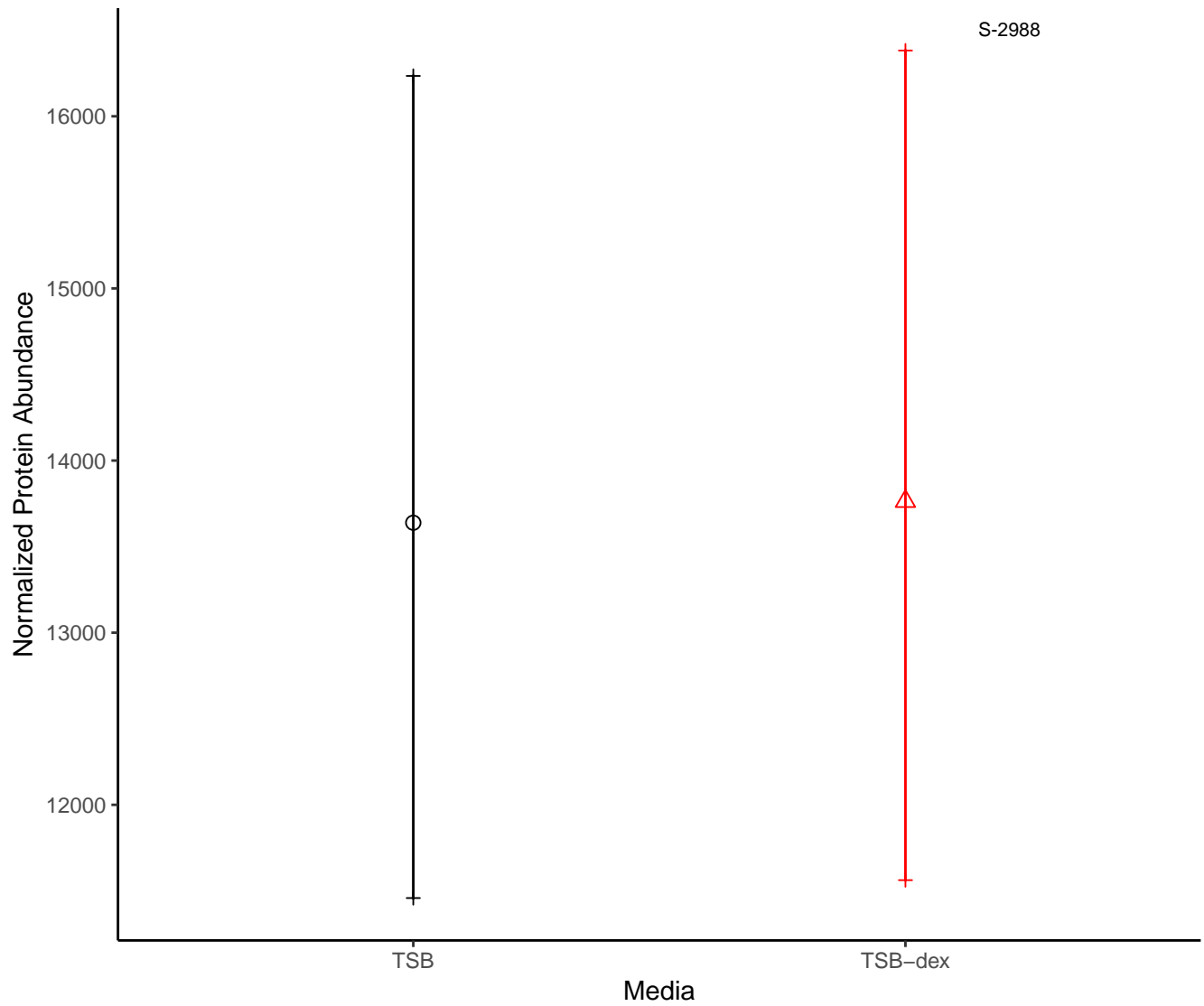
⊕ TSB-dex

△ TSB

# Y1866\_STAAM



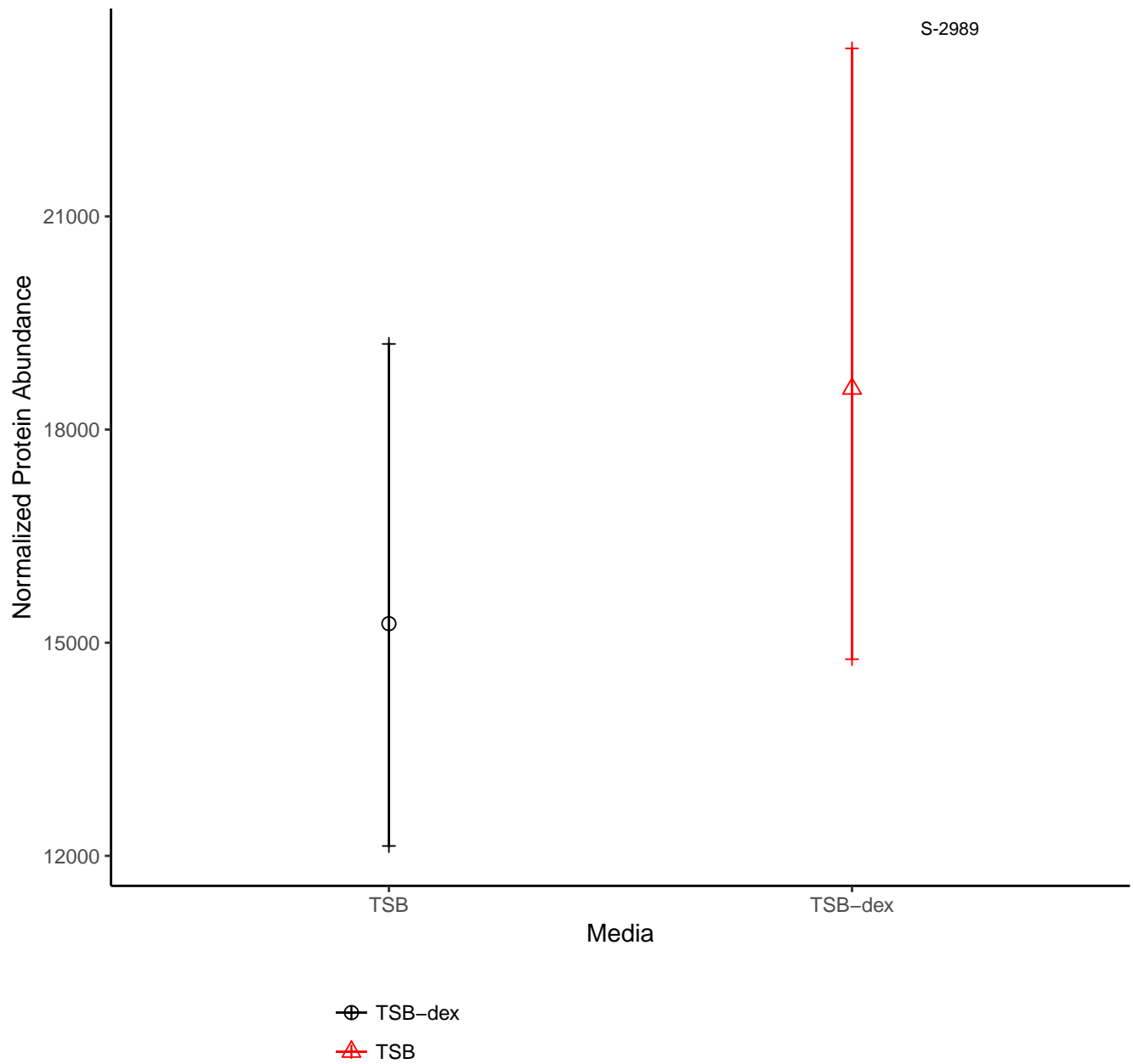
# Y1880\_STAAM



⊕ TSB-dex

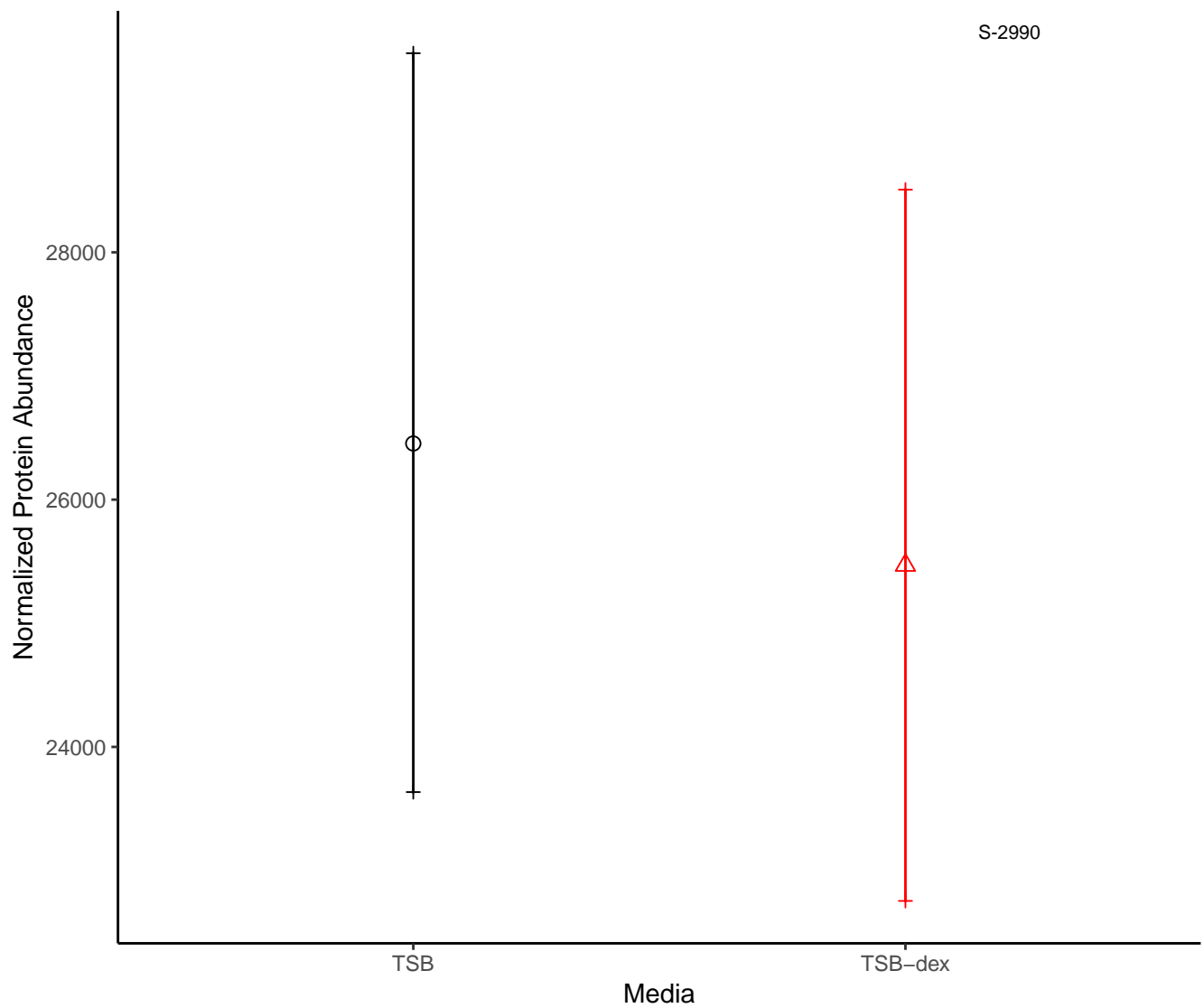
△ TSB

# Y1921\_STAAM



# Y2173\_STAAM

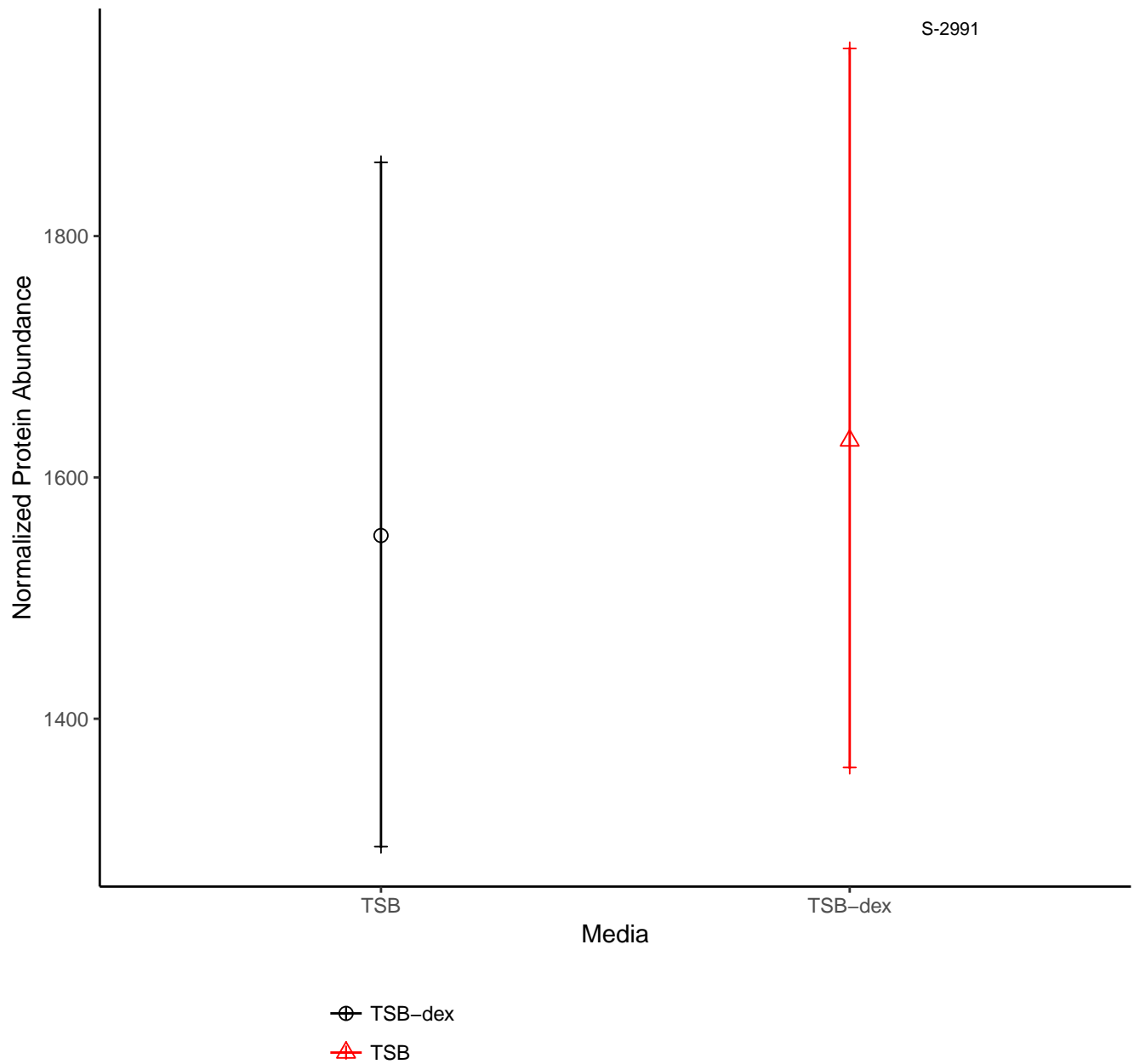
S-2990



⊕ TSB-dex

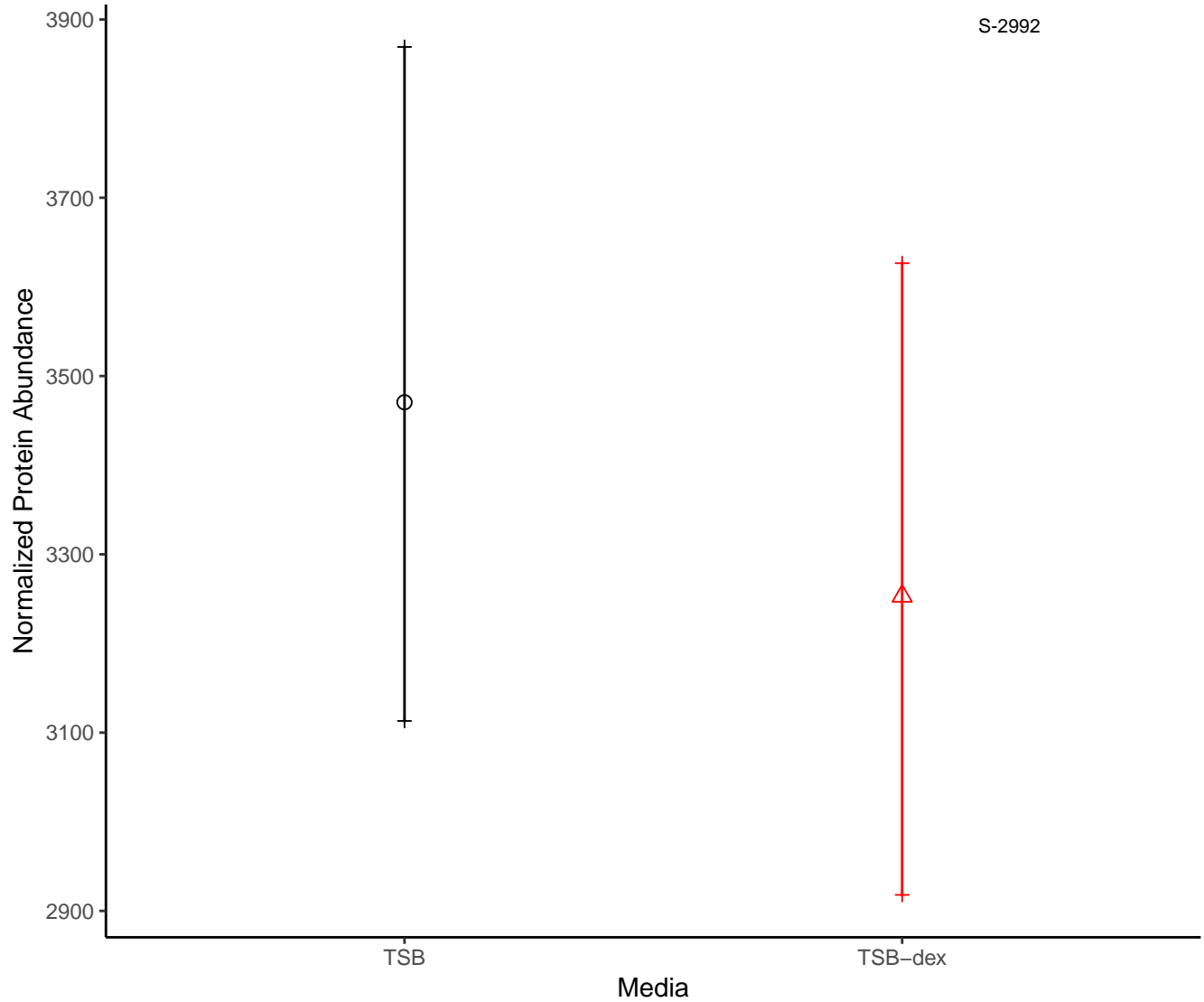
△ TSB

# Y2204\_STAAM



# Y2265\_STAAM

S-2992



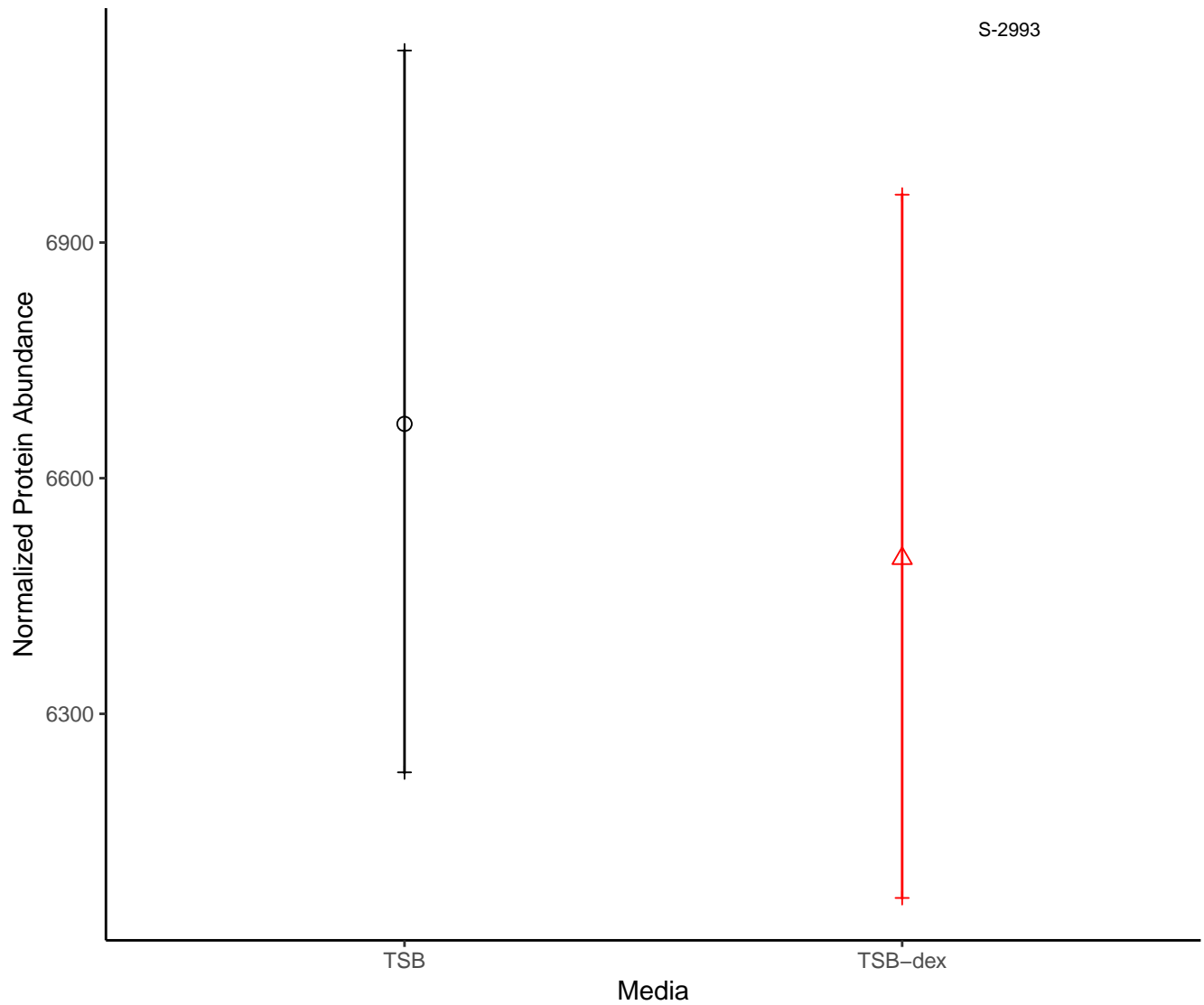
⊕ TSB-dex

△ TSB



# Y2305\_STAAM

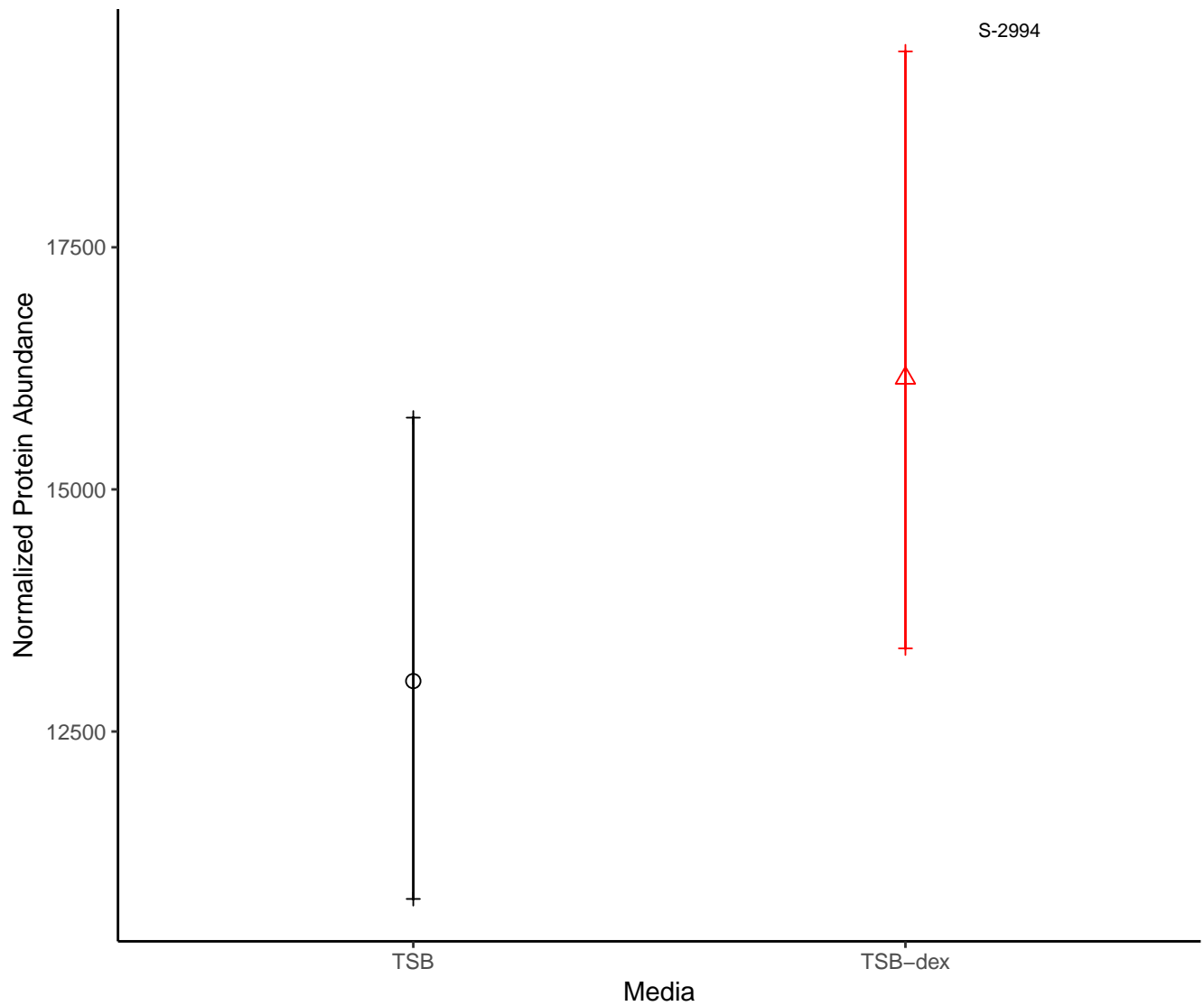
S-2993



⊕ TSB-dex

△ TSB

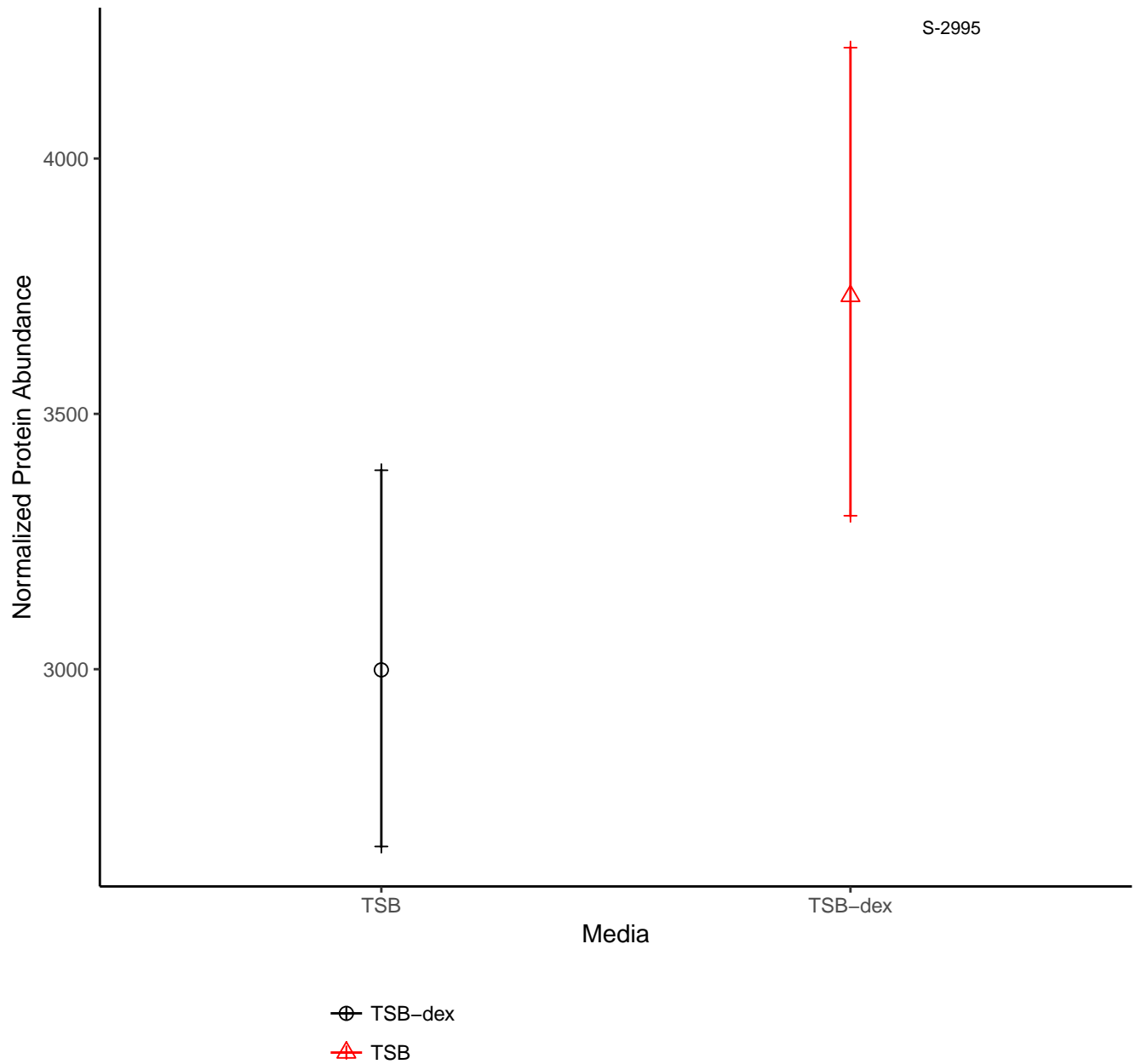
# Y2363\_STAAM



⊕ TSB-dex

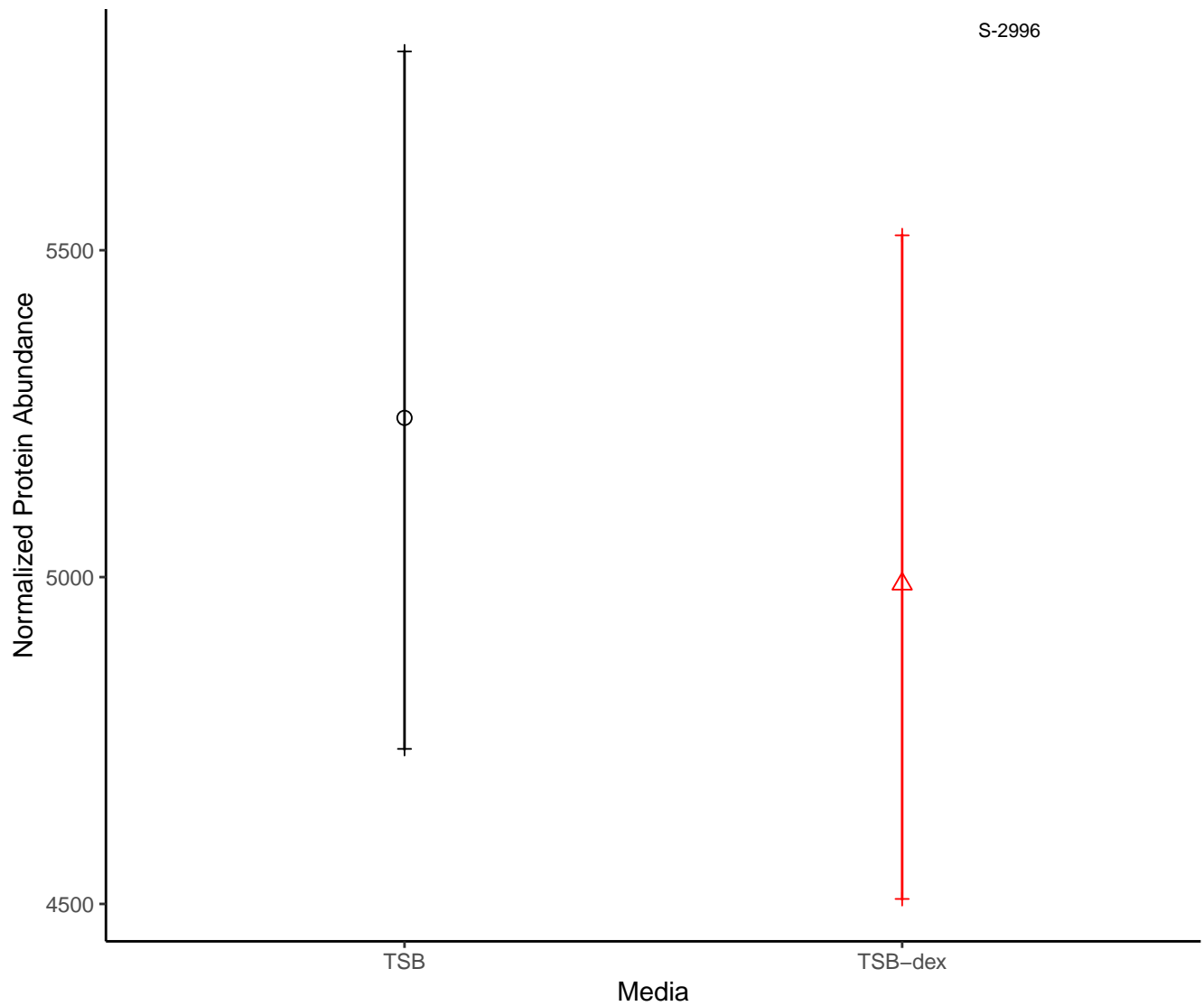
△ TSB

# Y2368\_STAAM



# Y2478\_STAAM

S-2996

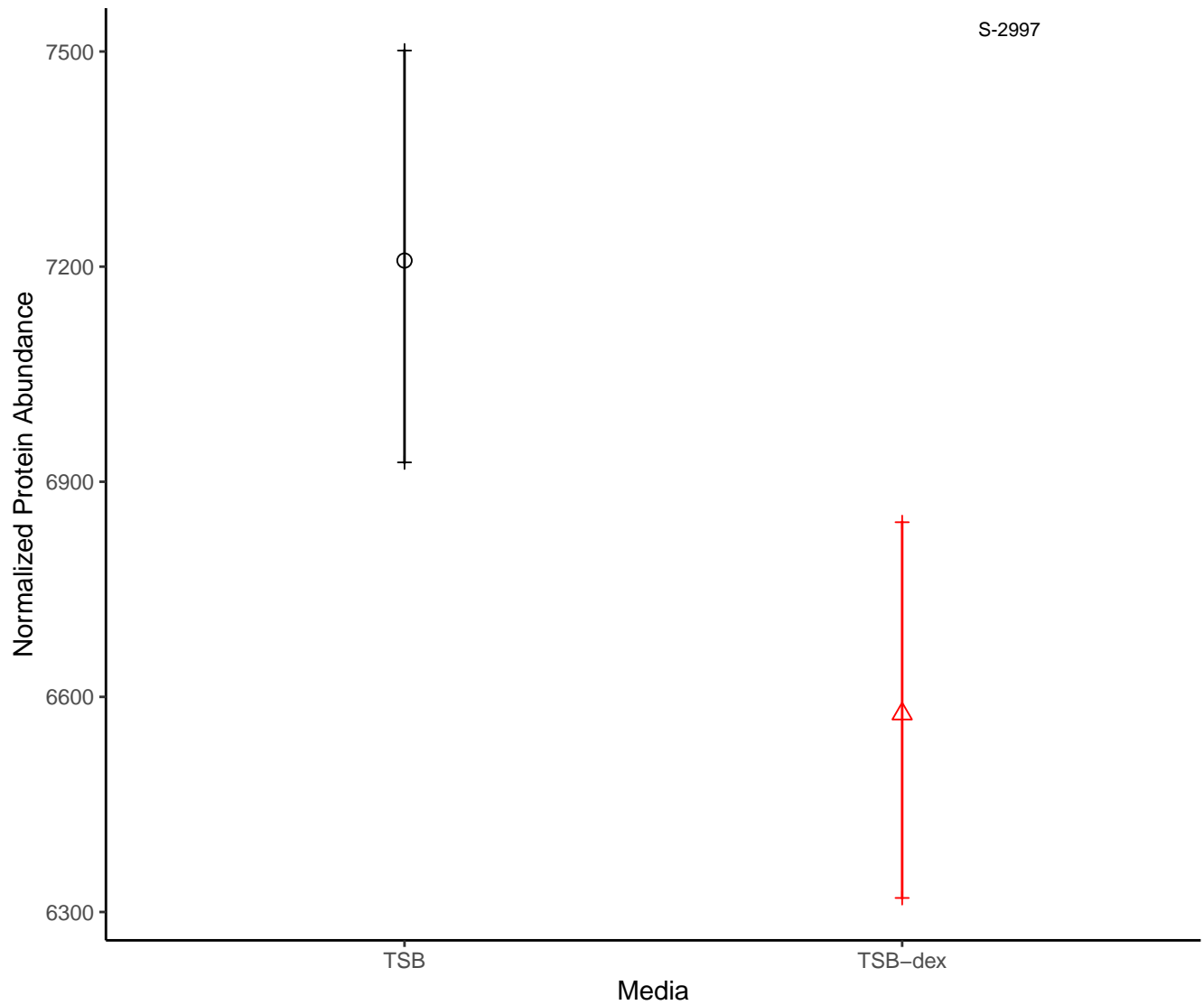


⊕ TSB-dex

△ TSB

# Y2523\_STAAM

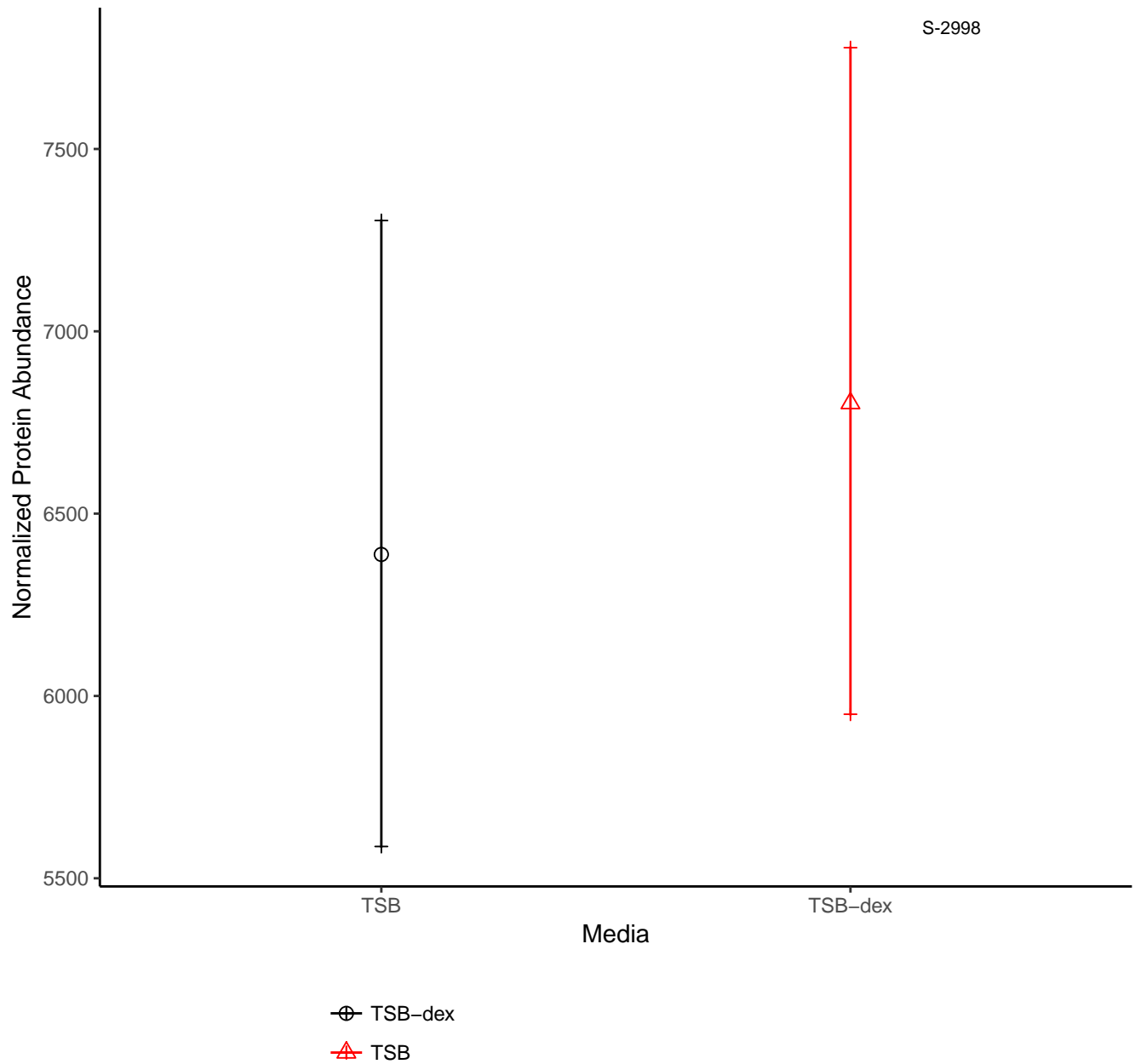
S-2997



⊕ TSB-dex

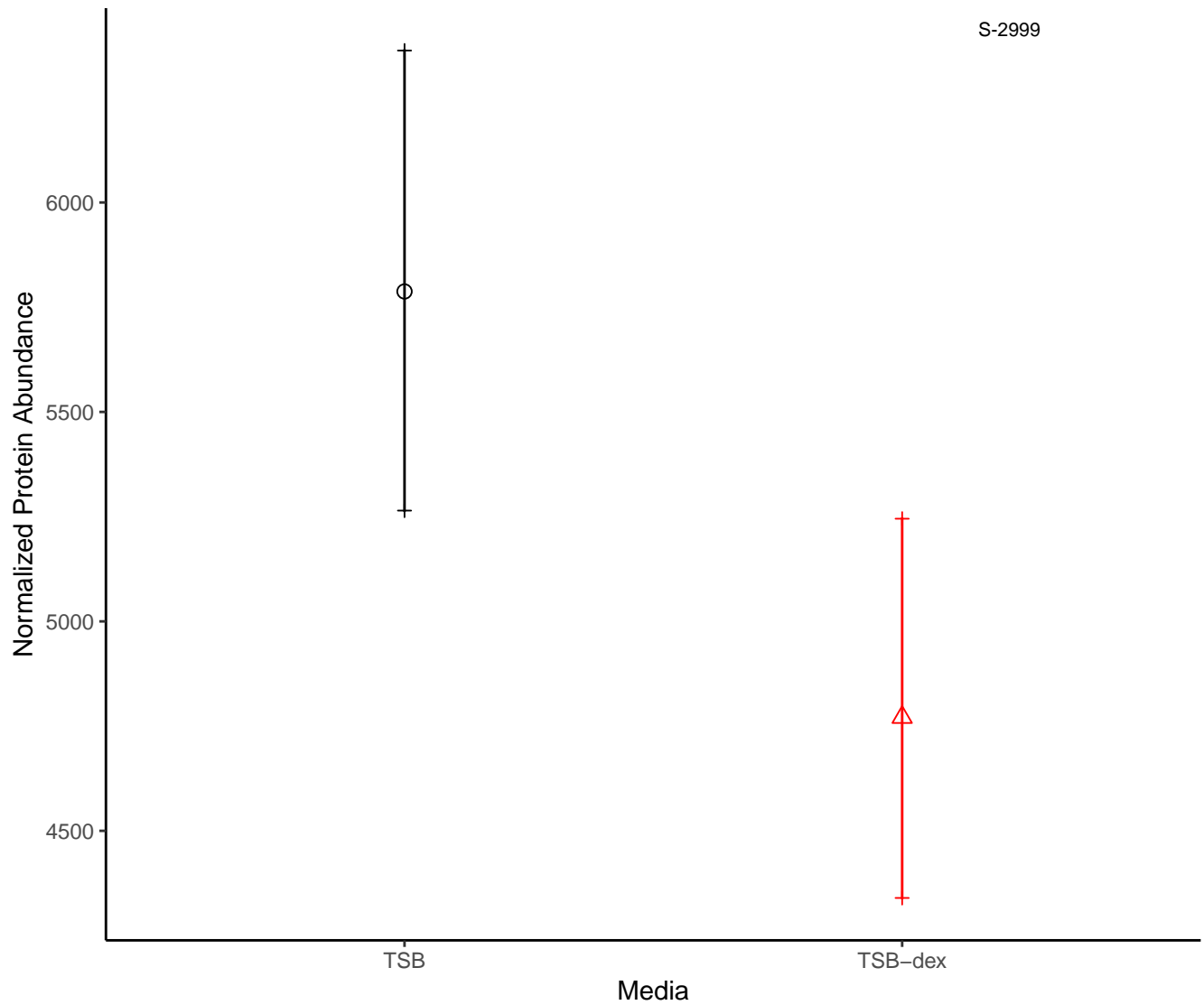
△ TSB

# Y2573\_STAAM



# Y2578\_STAAM

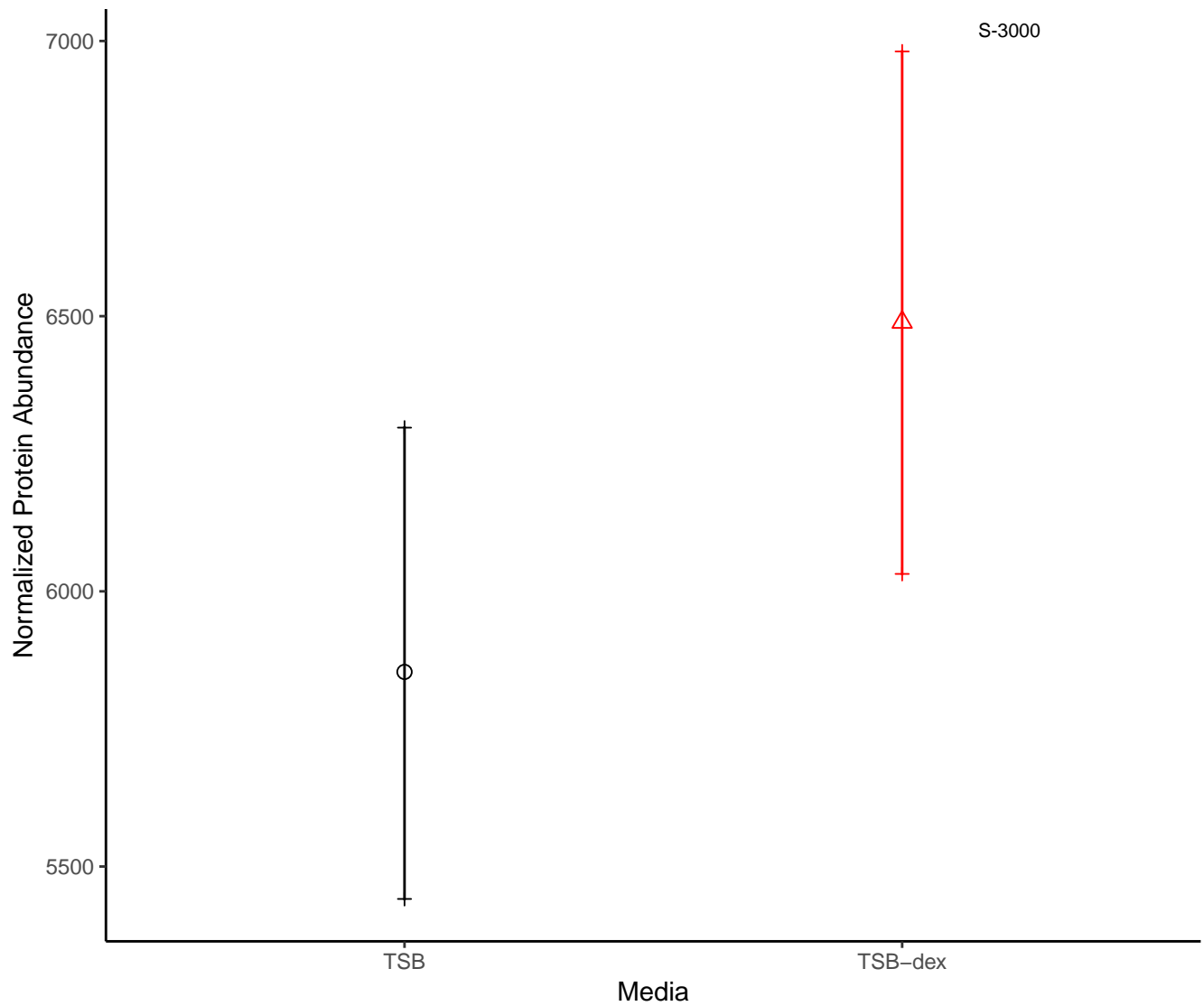
S-2999



⊕ TSB-dex

△ TSB

# Y2581\_STAAM



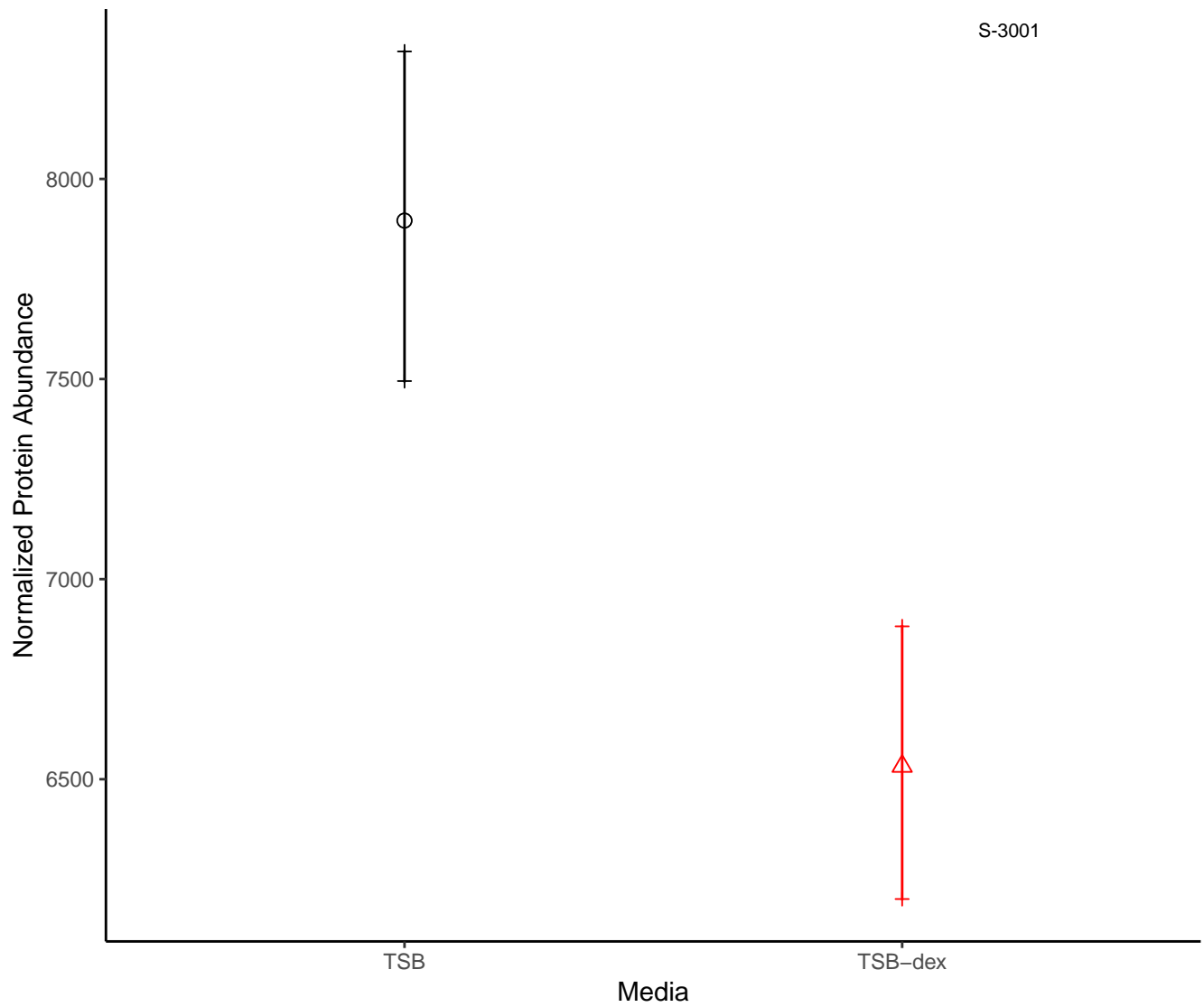
⊕ TSB-dex

△ TSB



# Y2627\_STAAM

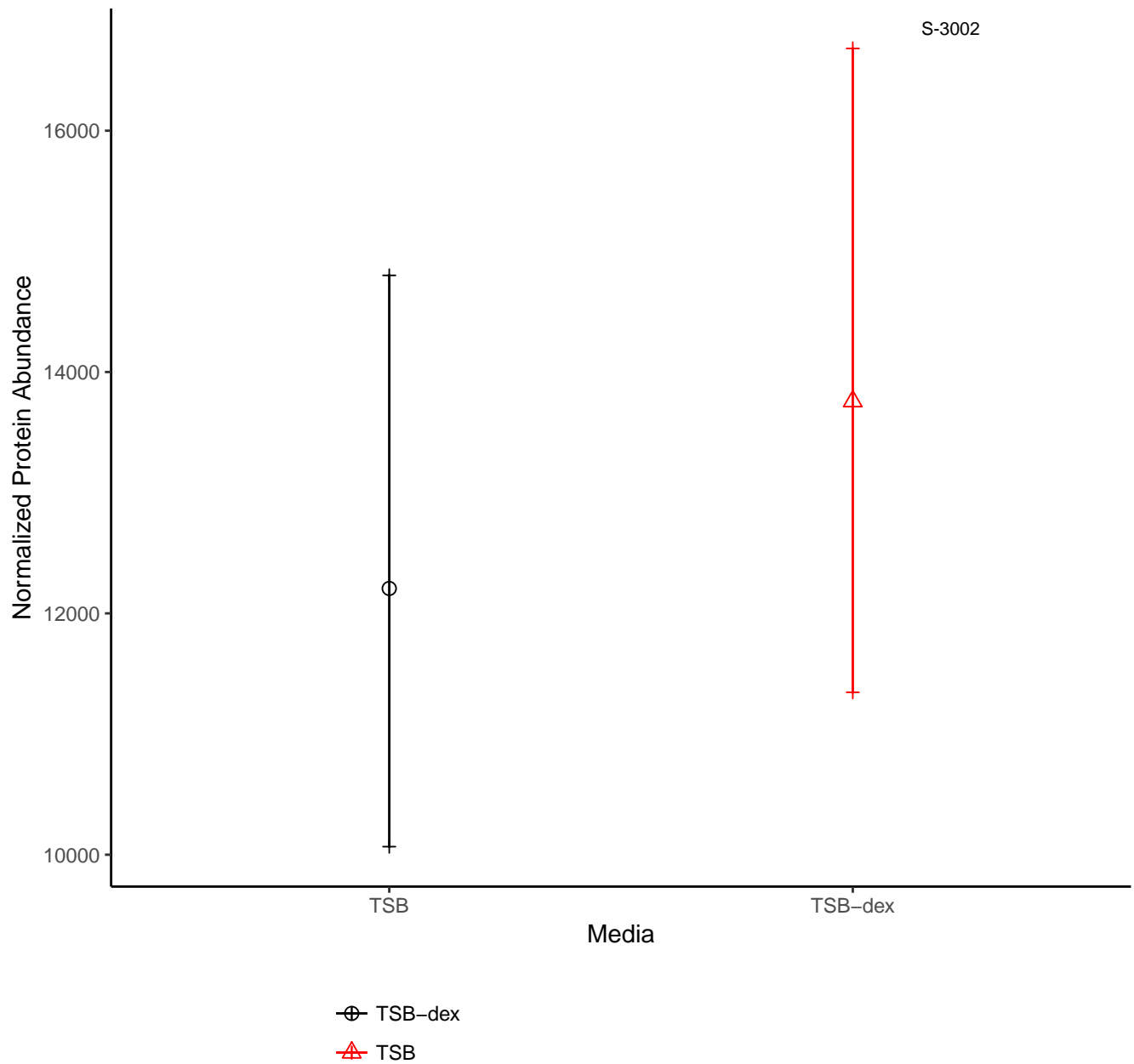
S-3001



⊕ TSB-dex

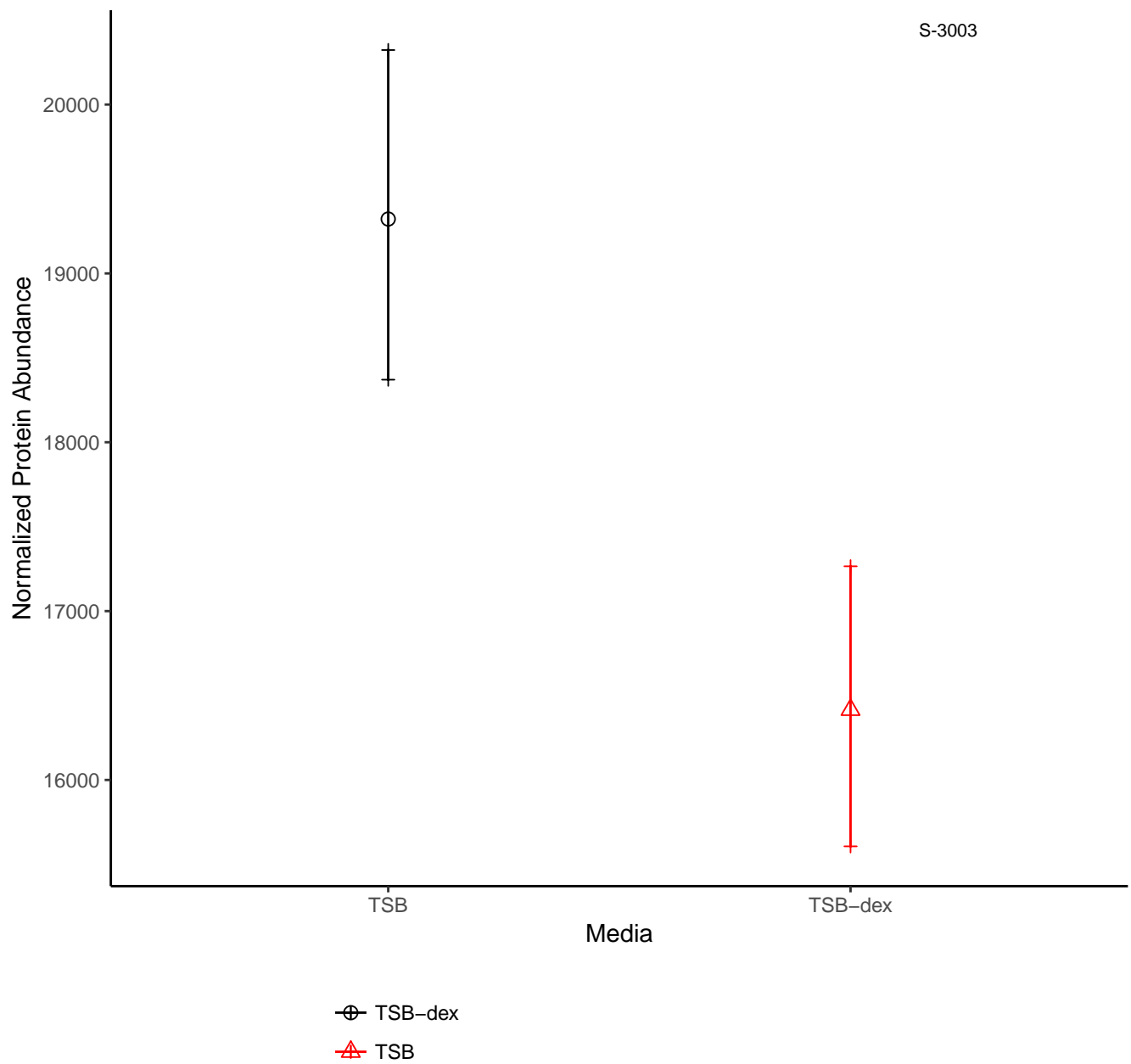
△ TSB

# Y2687\_STAAM

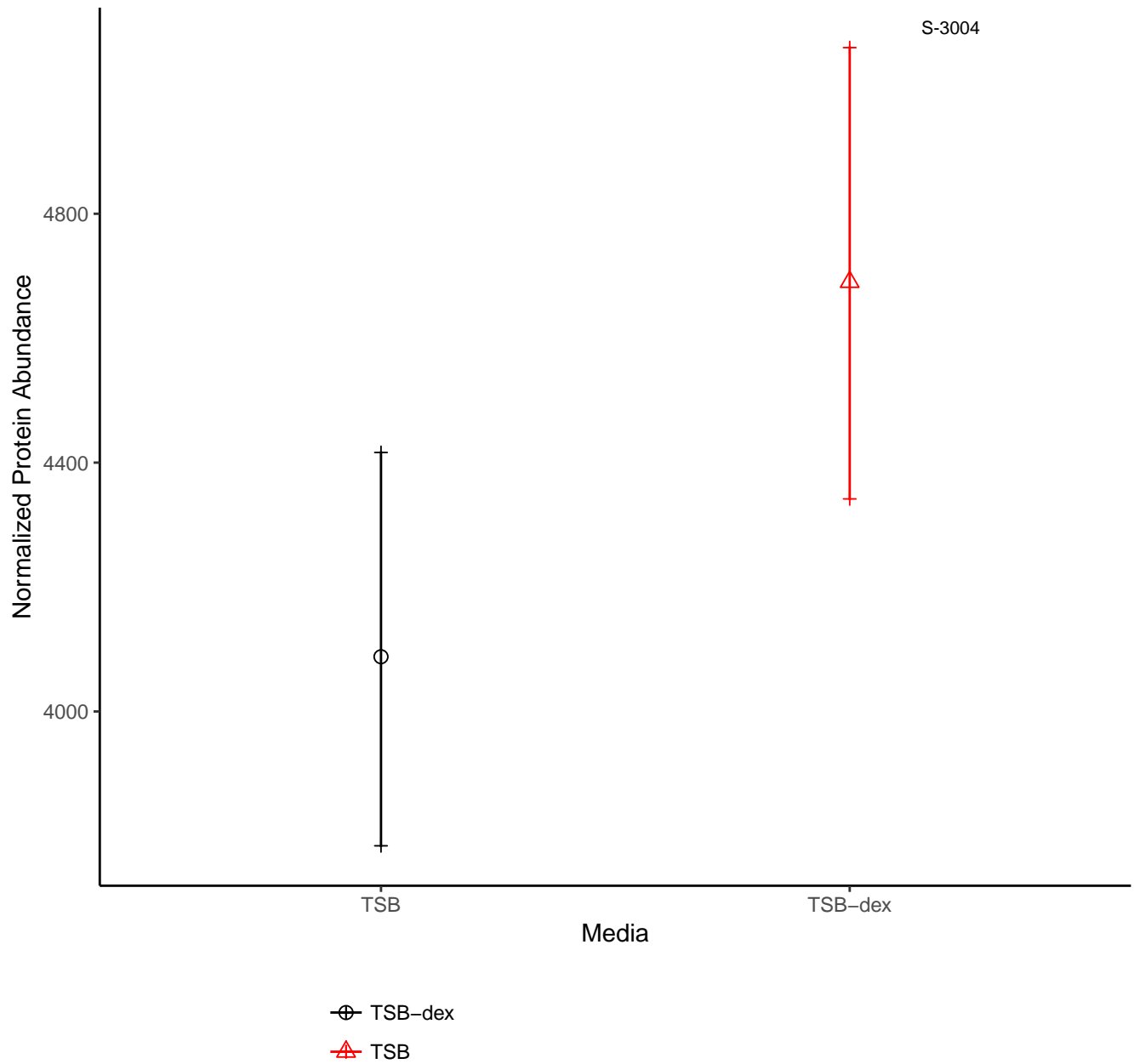


# Y2689\_STAAM

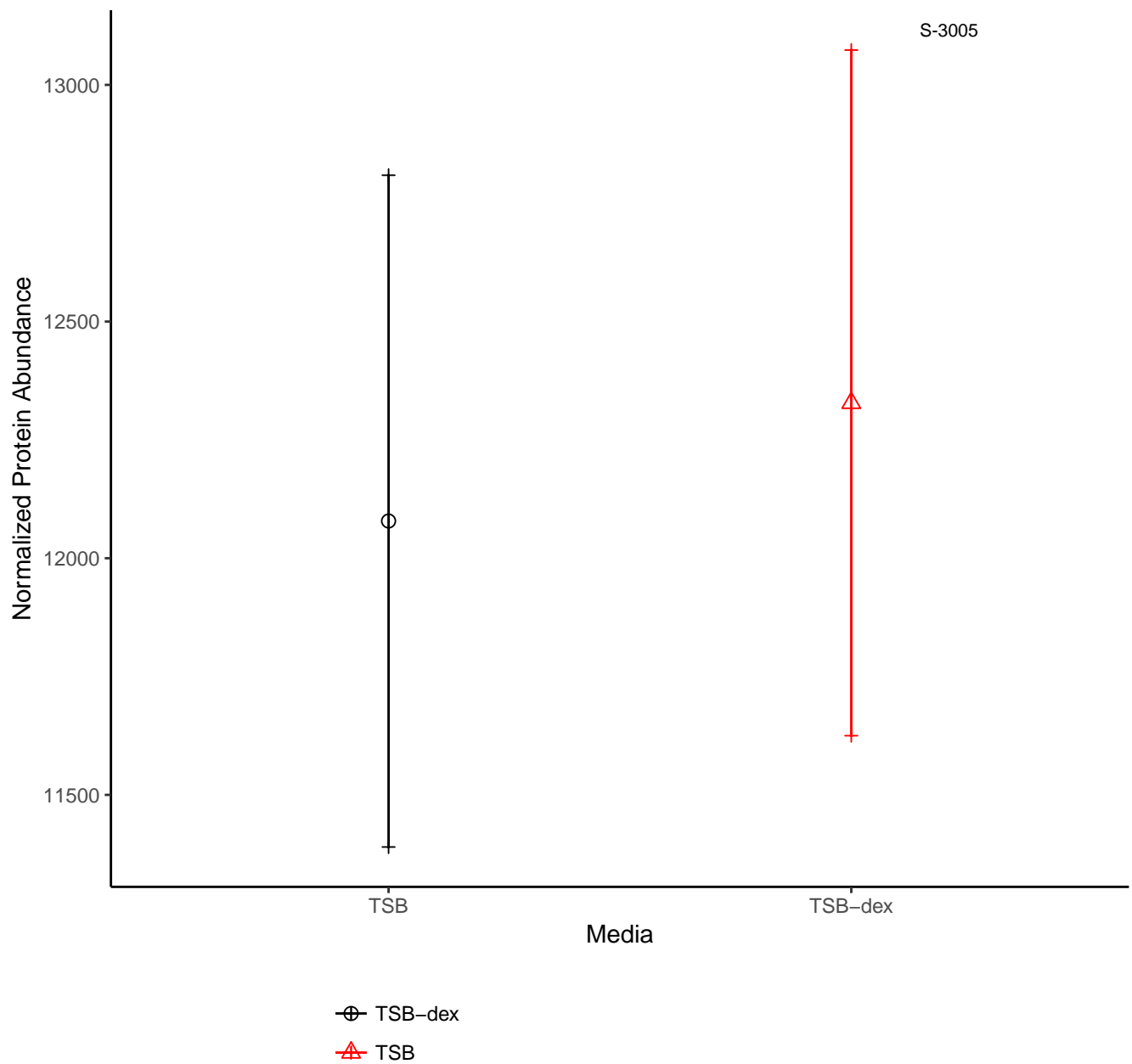
S-3003



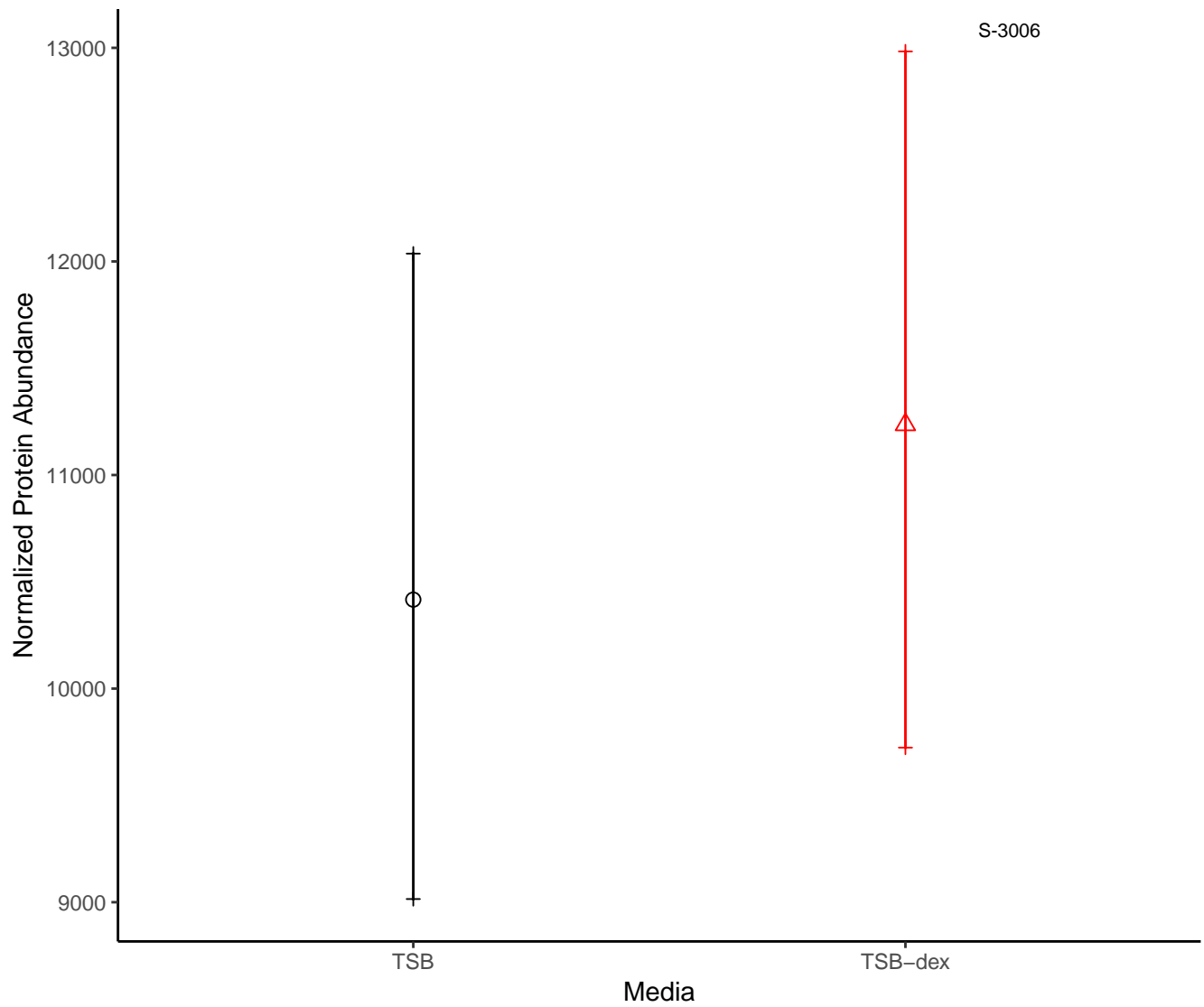
# Y385\_STAAM



# Y437\_STAAM



# Y479\_STAAM

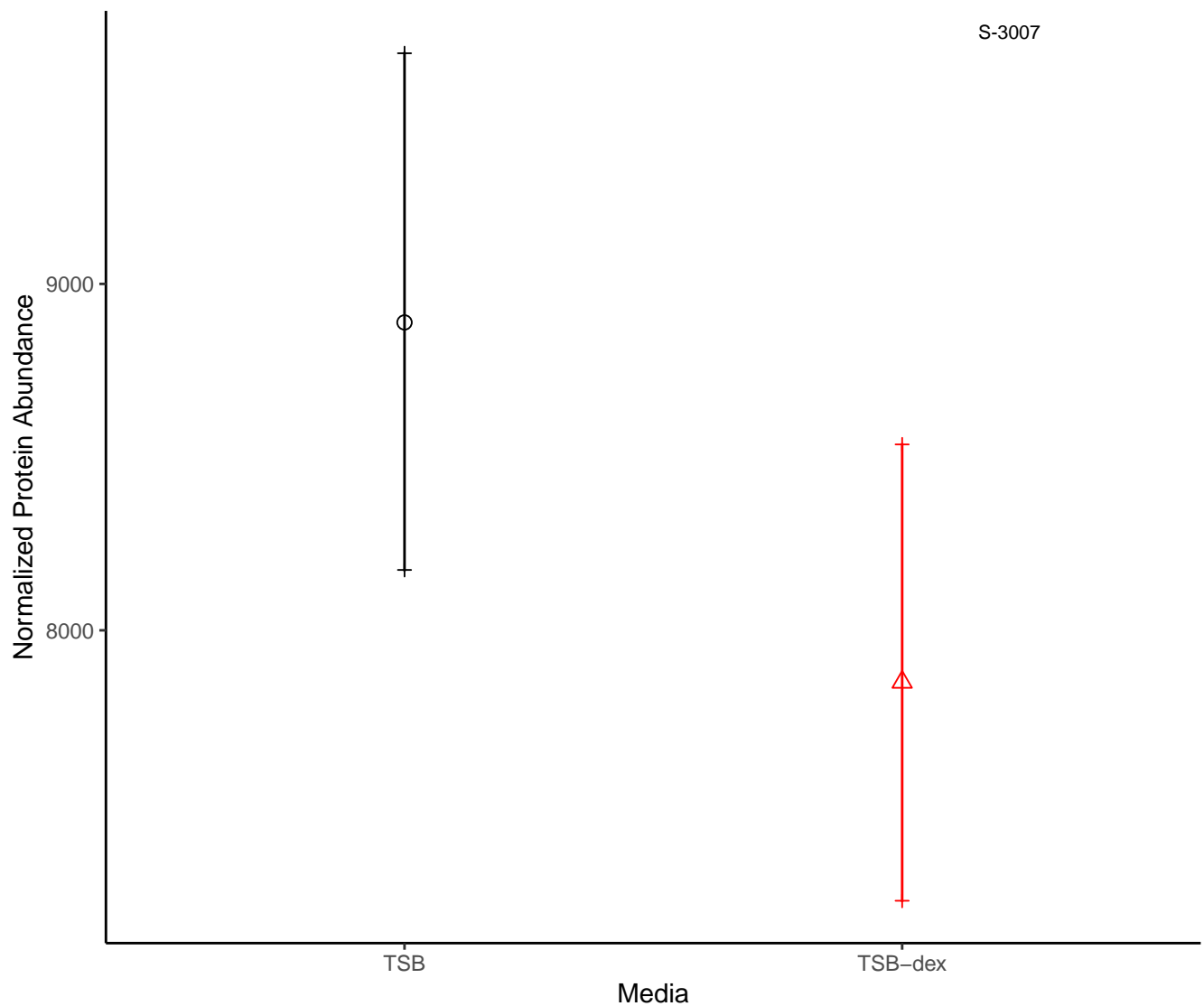


⊕ TSB-dex

△ TSB

# Y553\_STAAM

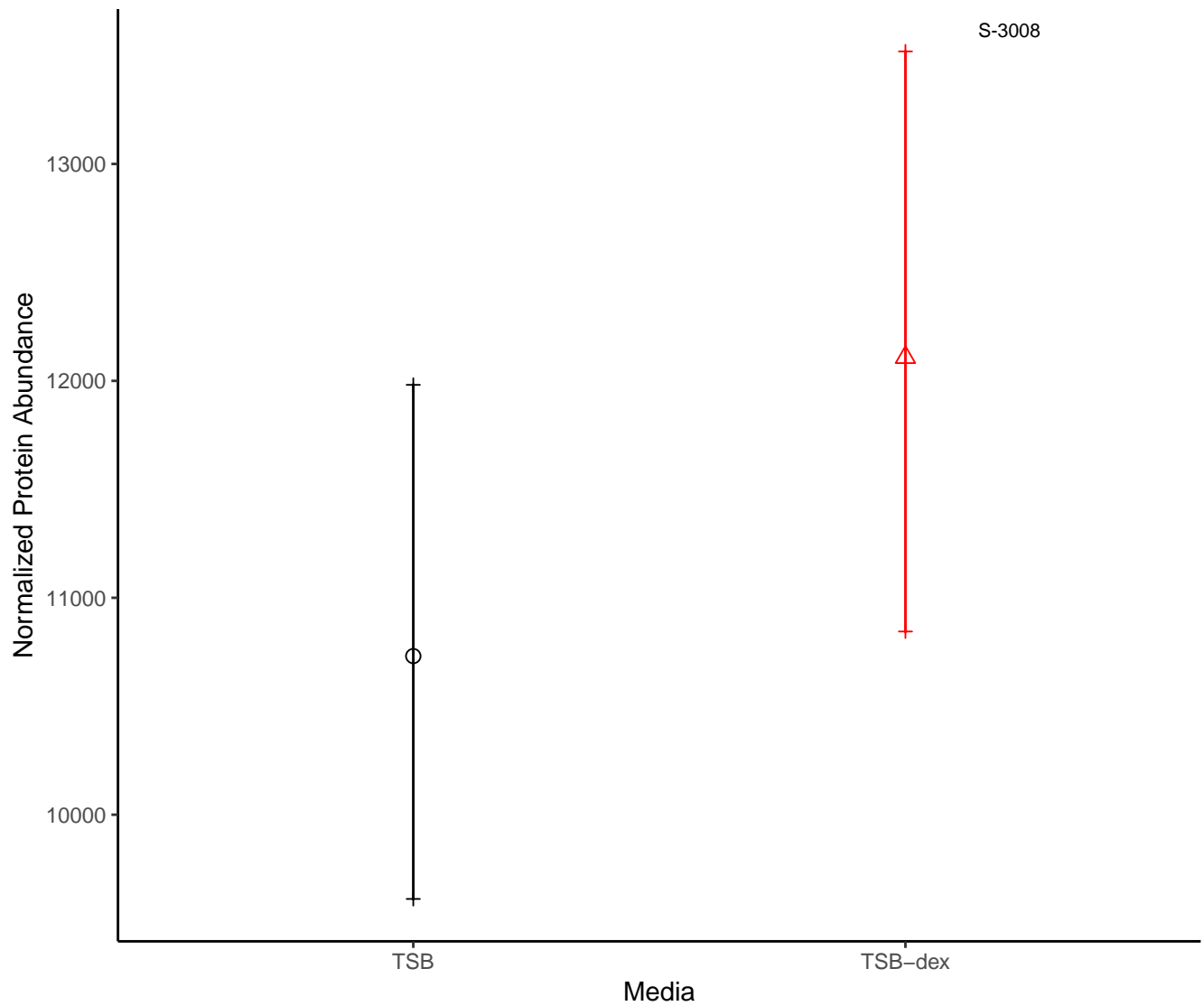
S-3007



⊕ TSB-dex

△ TSB

# Y587\_STAAM



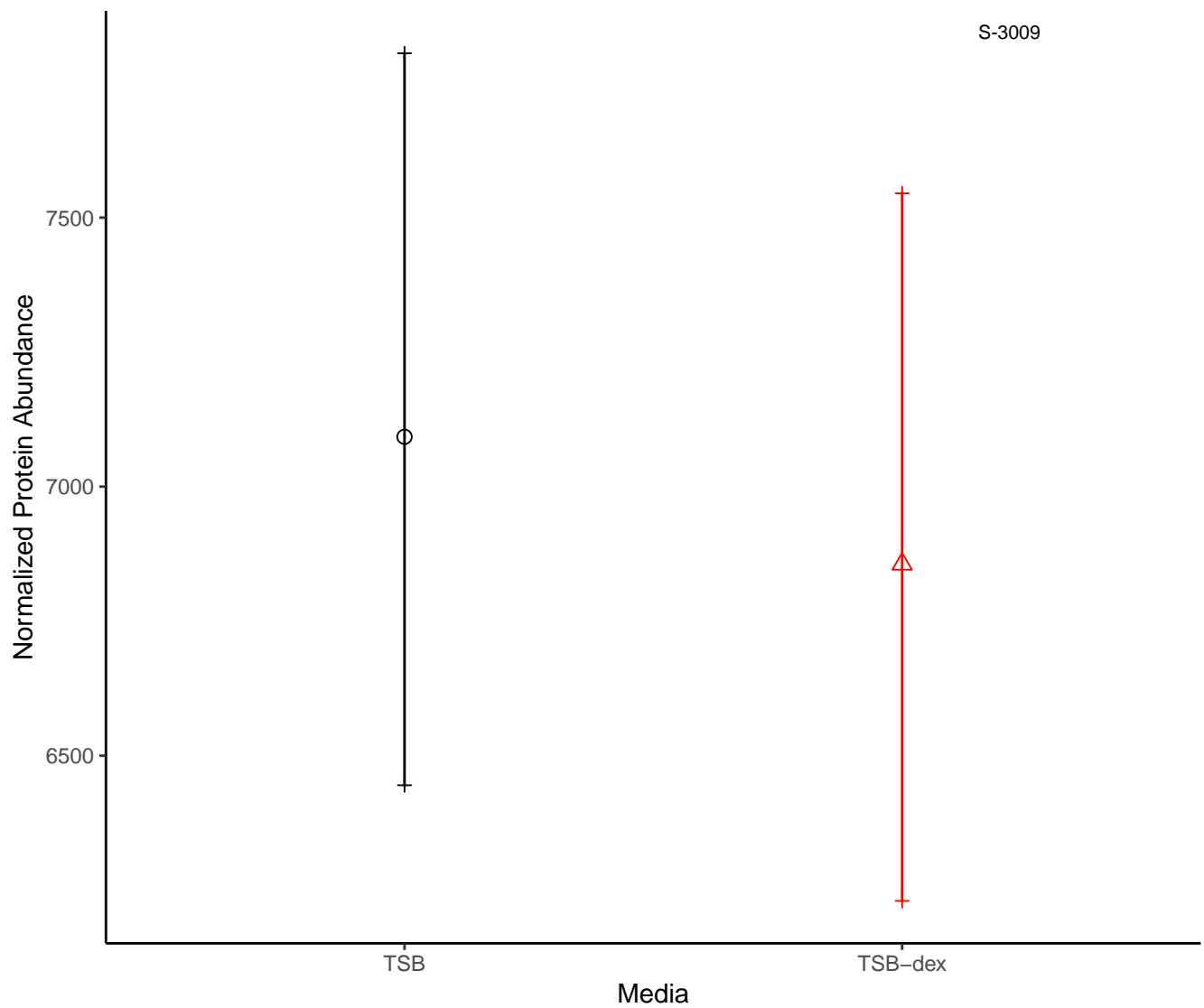
⊕ TSB-dex

△ TSB



# Y669\_STAAM

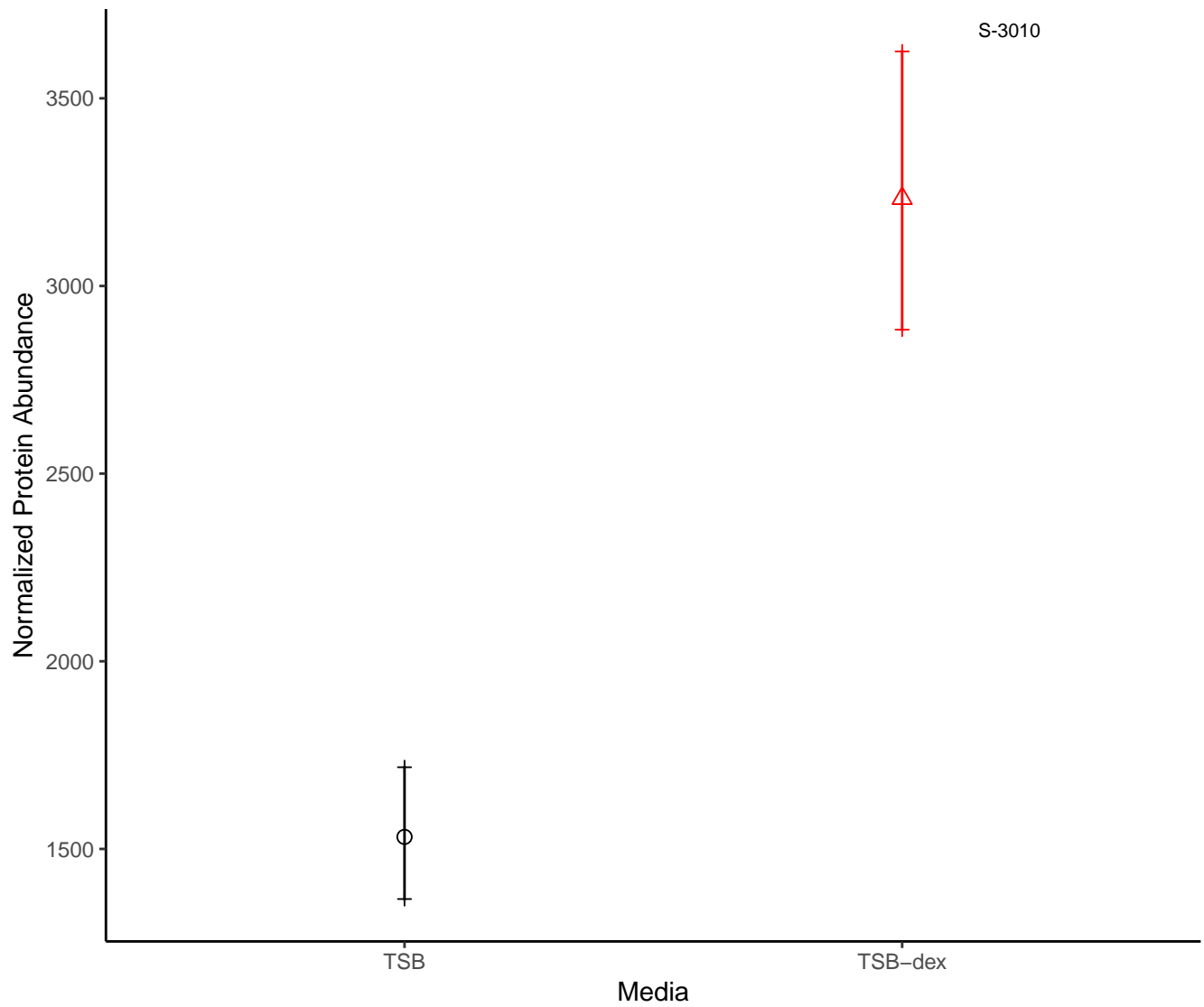
S-3009



⊕ TSB-dex

△ TSB

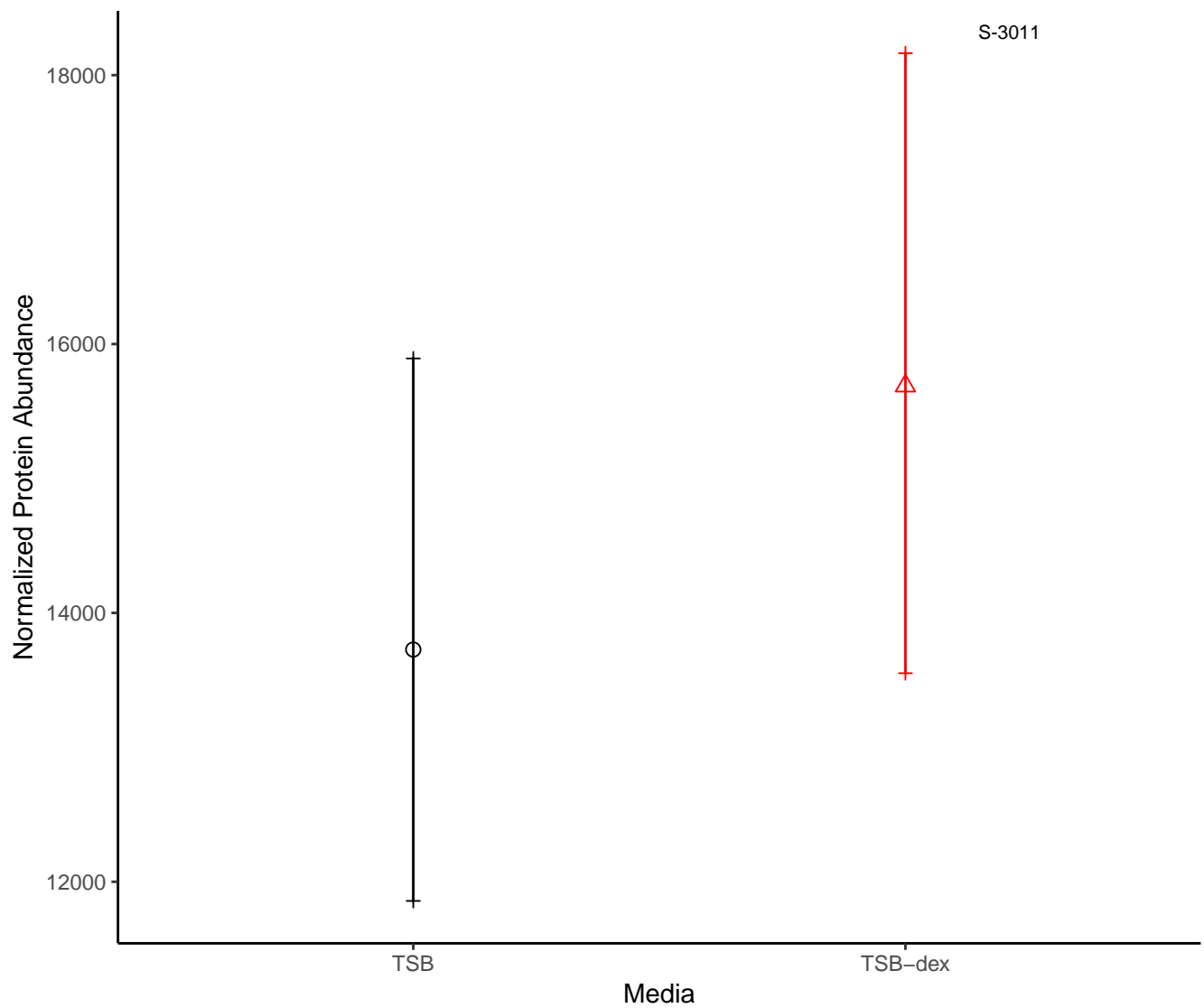
# Y752\_STAAM



⊕ TSB-dex

△ TSB

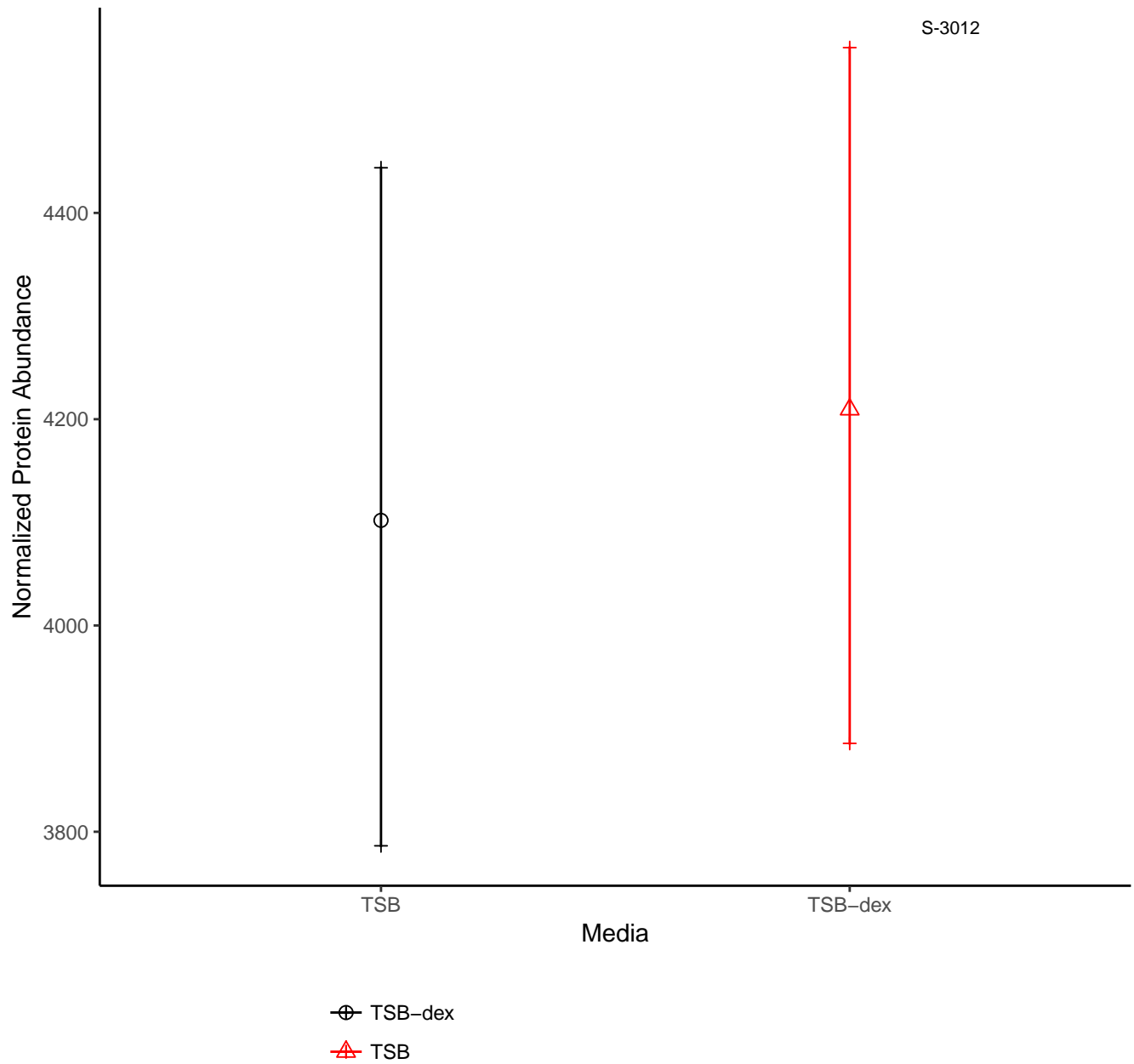
# Y765\_STAAM



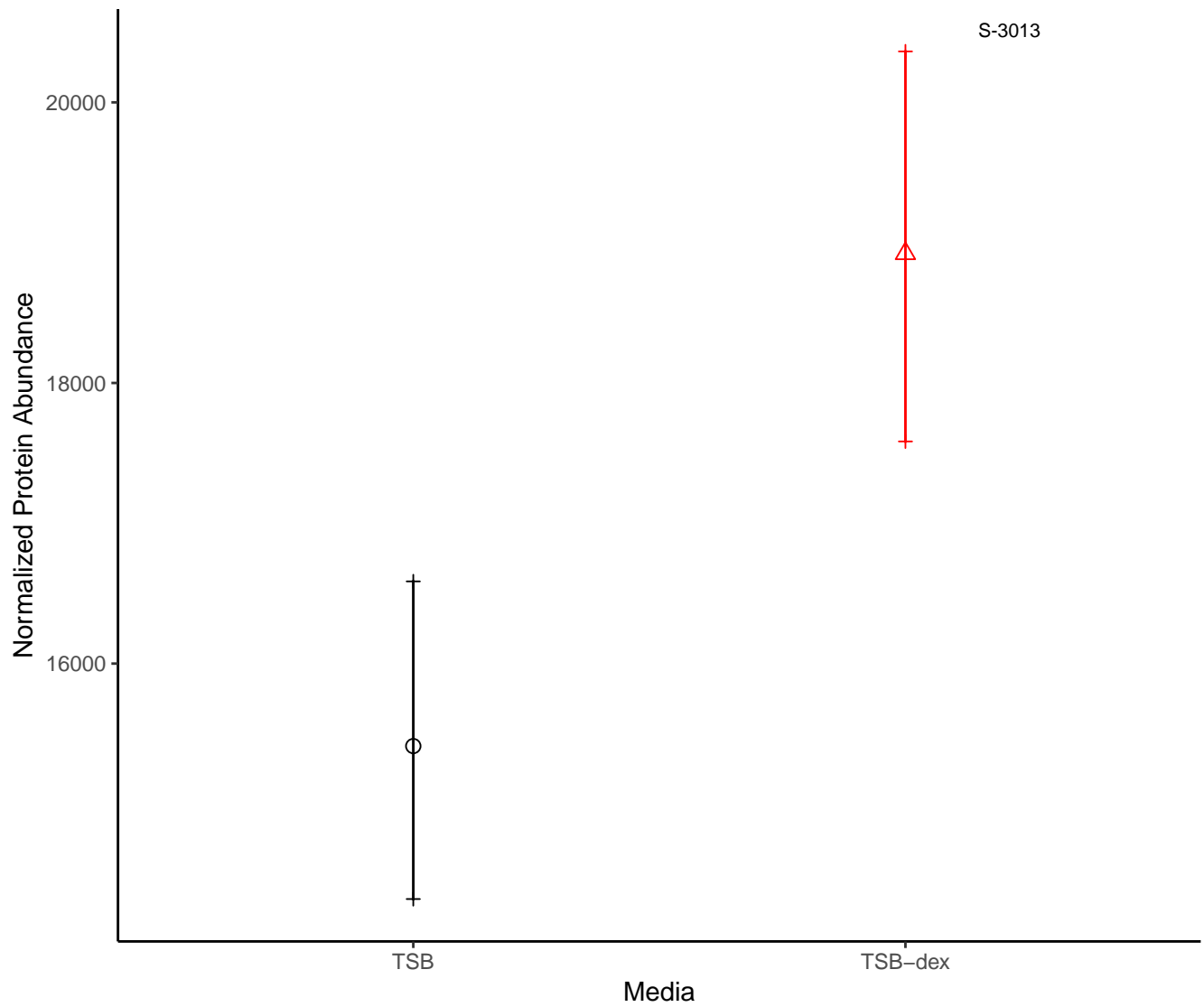
⊖ TSB-dex

△ TSB

# Y769\_STAAM



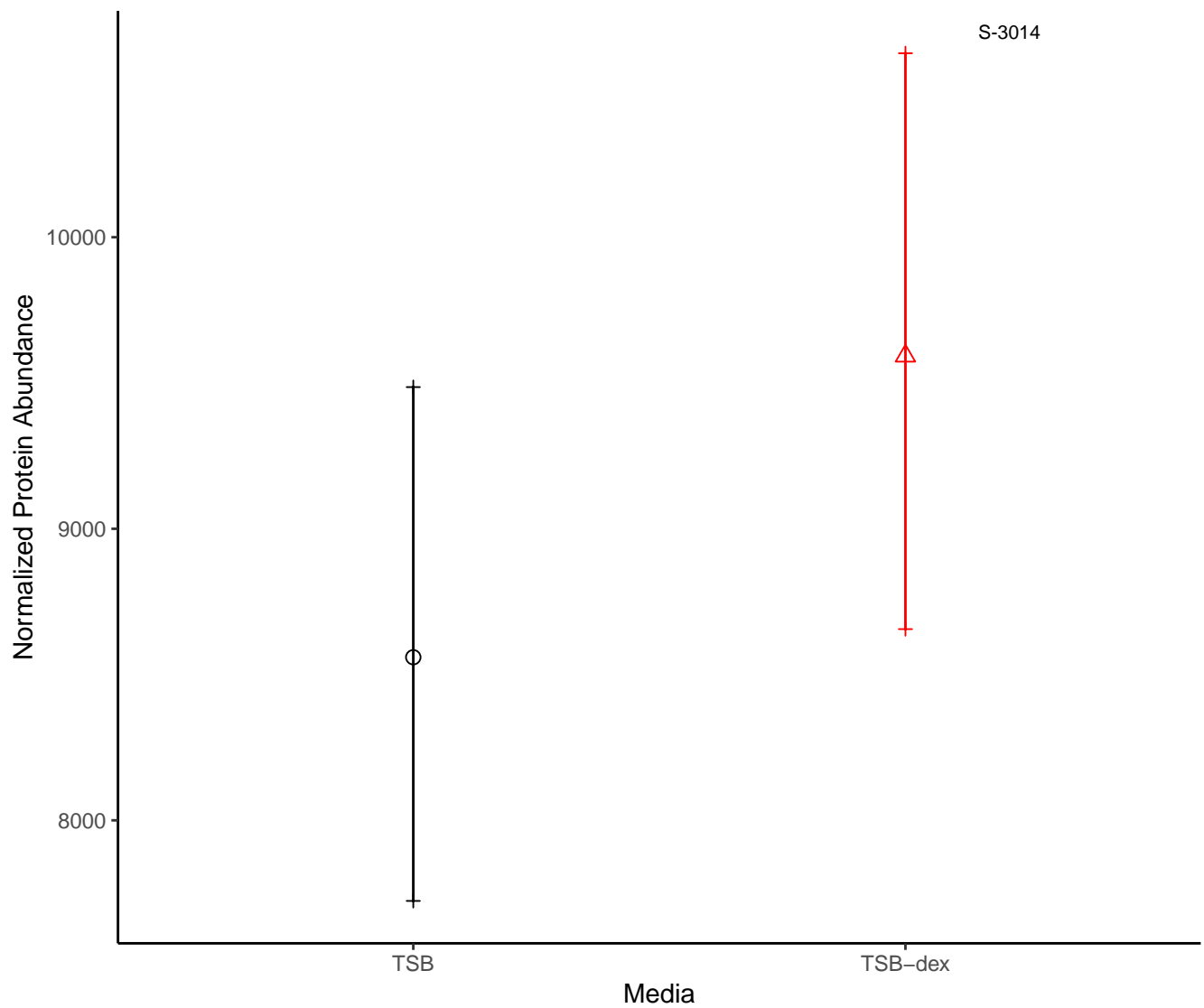
# Y840\_STAAM



⊖ TSB-dex

⊖ TSB

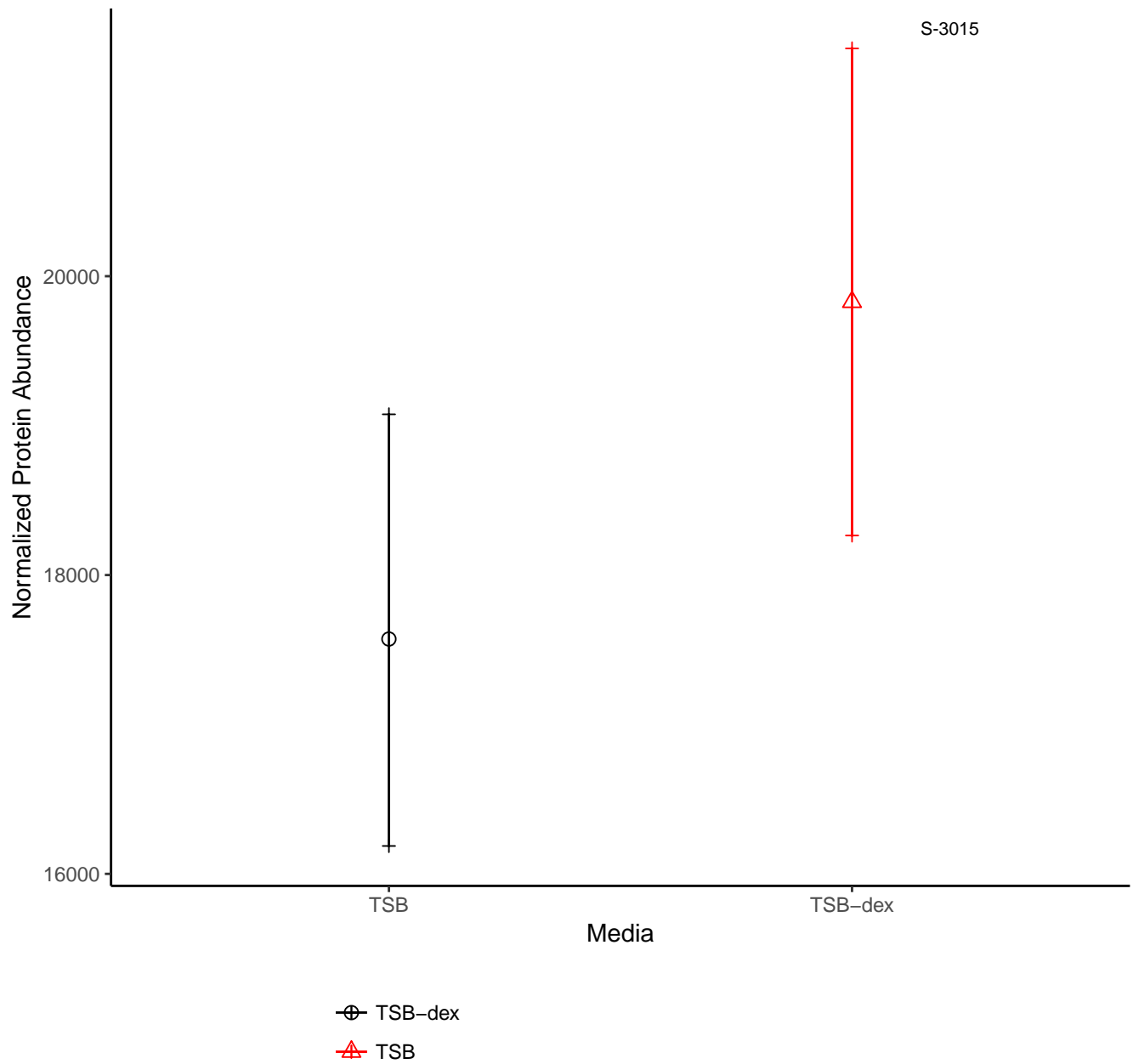
# Y846\_STAAM



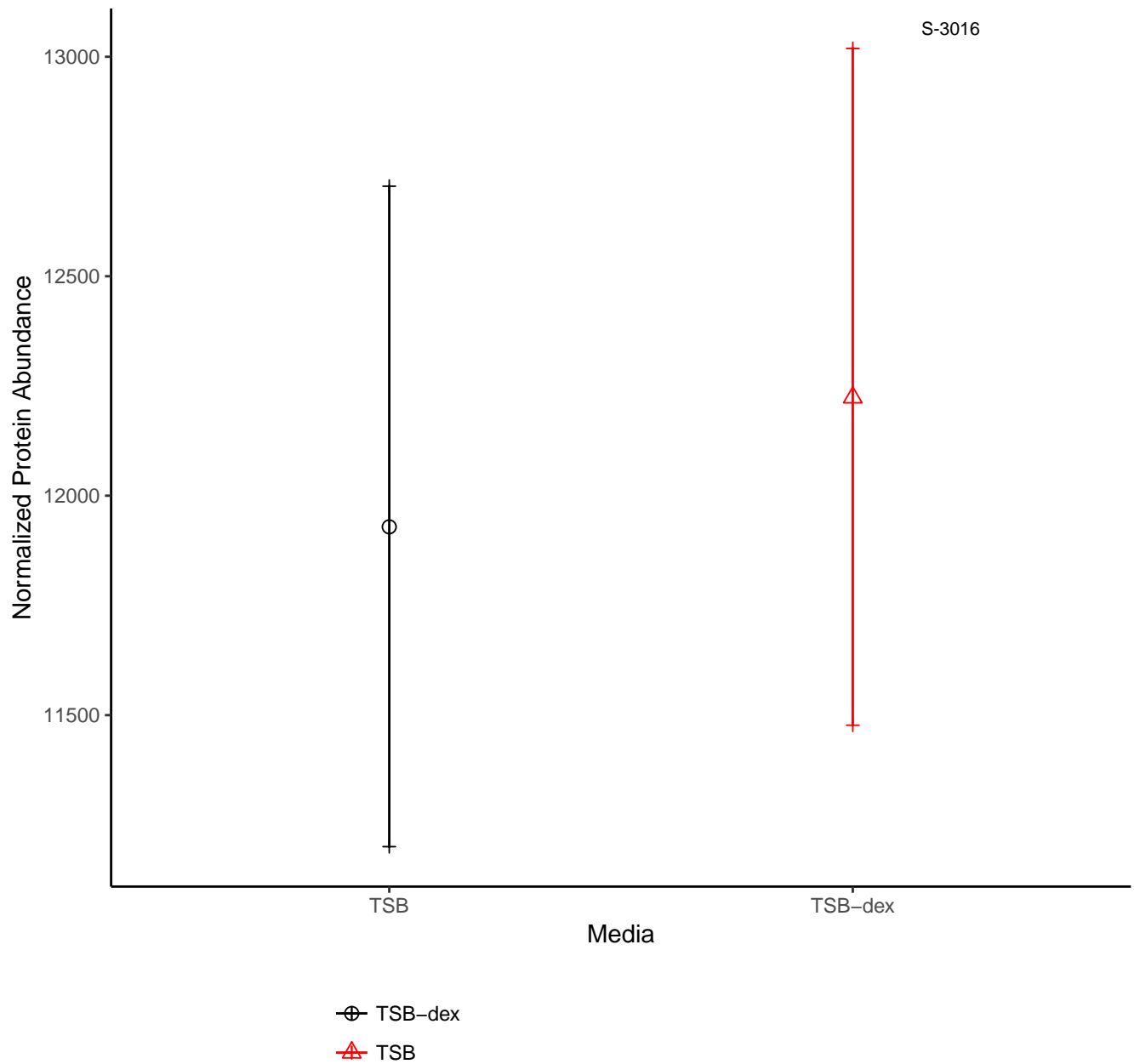
⊖ TSB-dex

△ TSB

# Y941\_STAAM

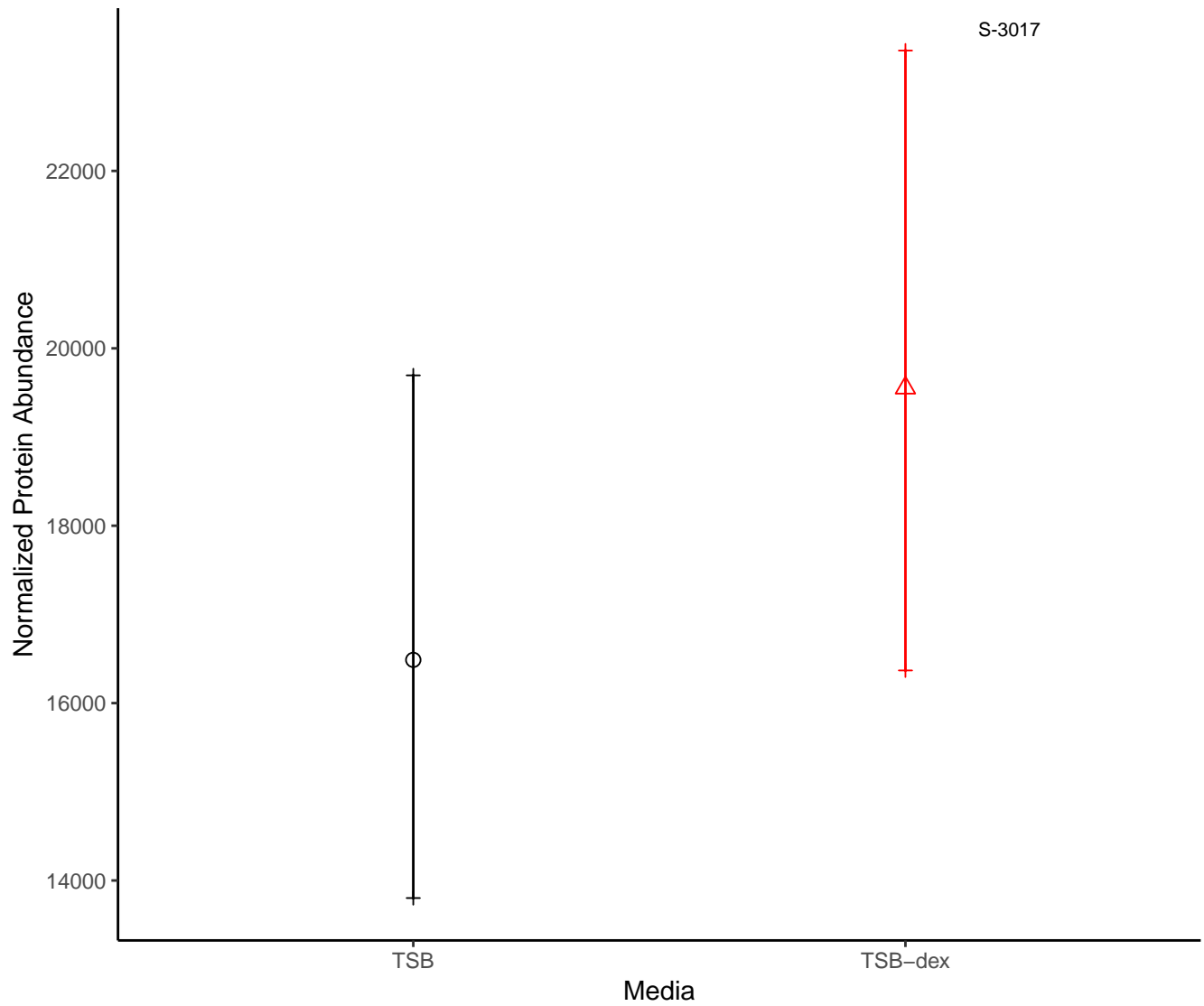


# Y968\_STAAM





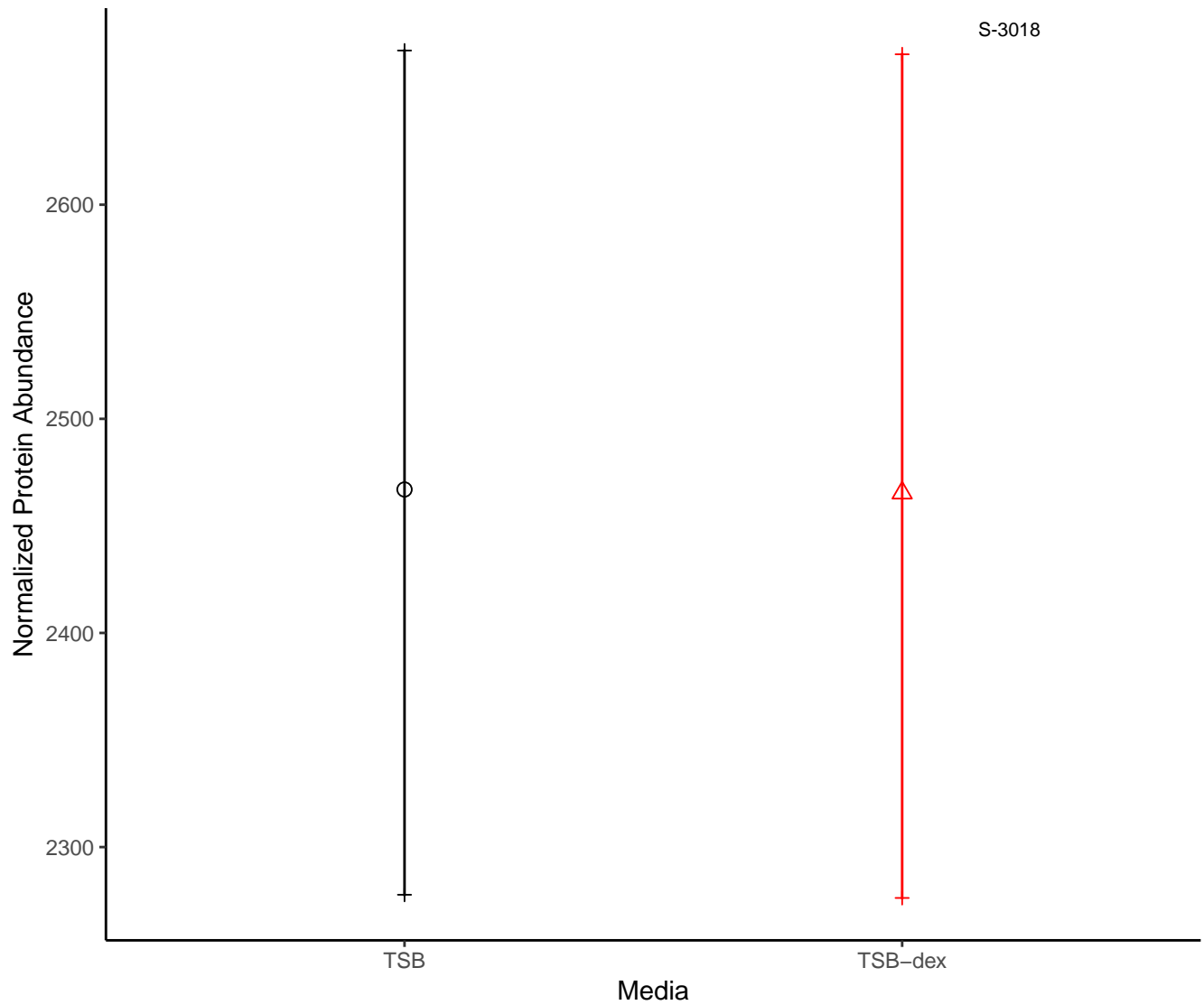
# YABA\_STAAM



● TSB-dex

▲ TSB

# YBEY\_STAAM



S-3018

⊕ TSB-dex

△ TSB

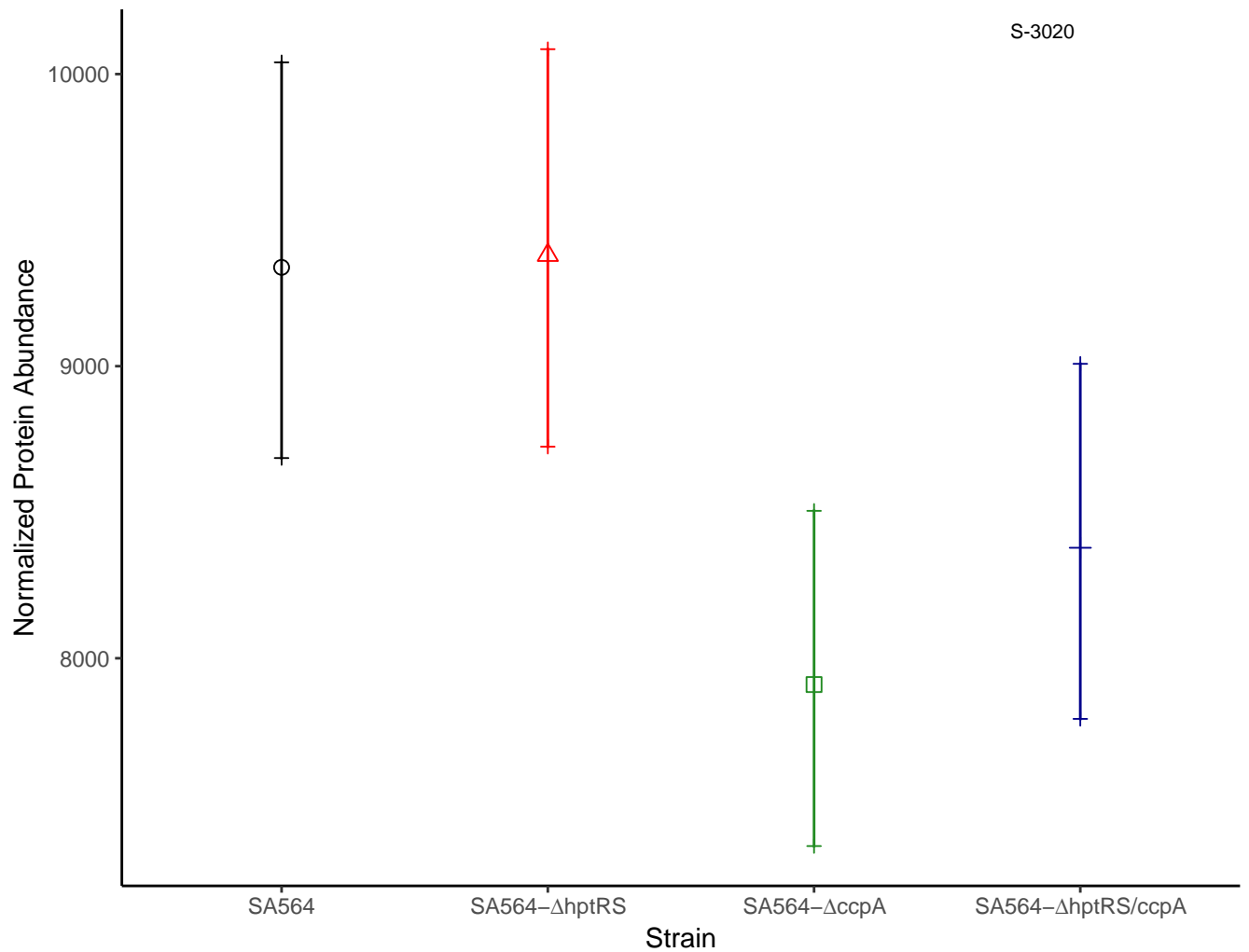
**Figure L.**

1-way analysis: s

Pages: S3019-S3520

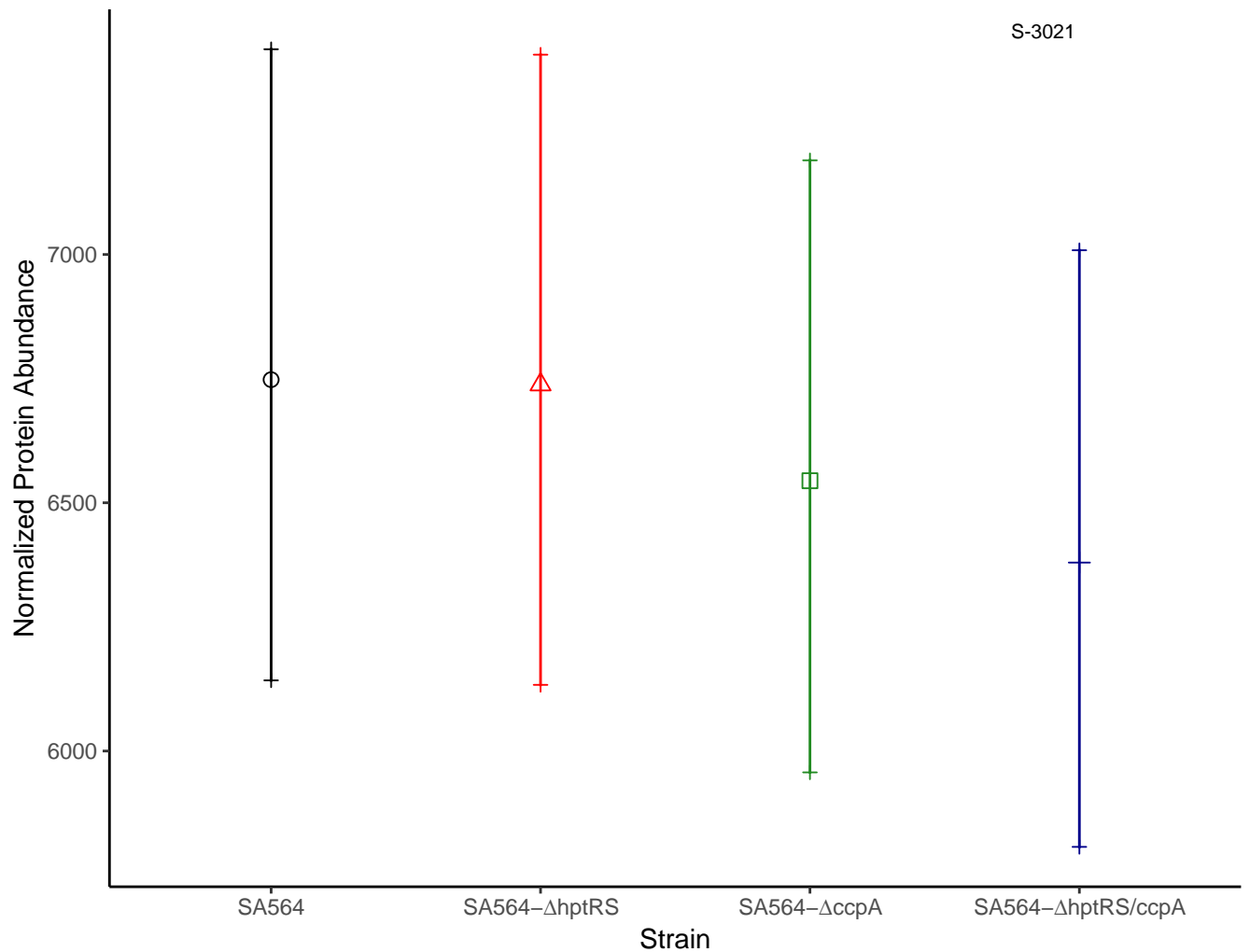
The normalized protein abundance, lower 95% confidence interval, and upper 95% confidence interval were plotted for each protein. These plots were analyzed if the 3-way and 2-way interactions were rejected and a significant main effect (1-way) was identified for strain.

# 6PGD\_STAAM



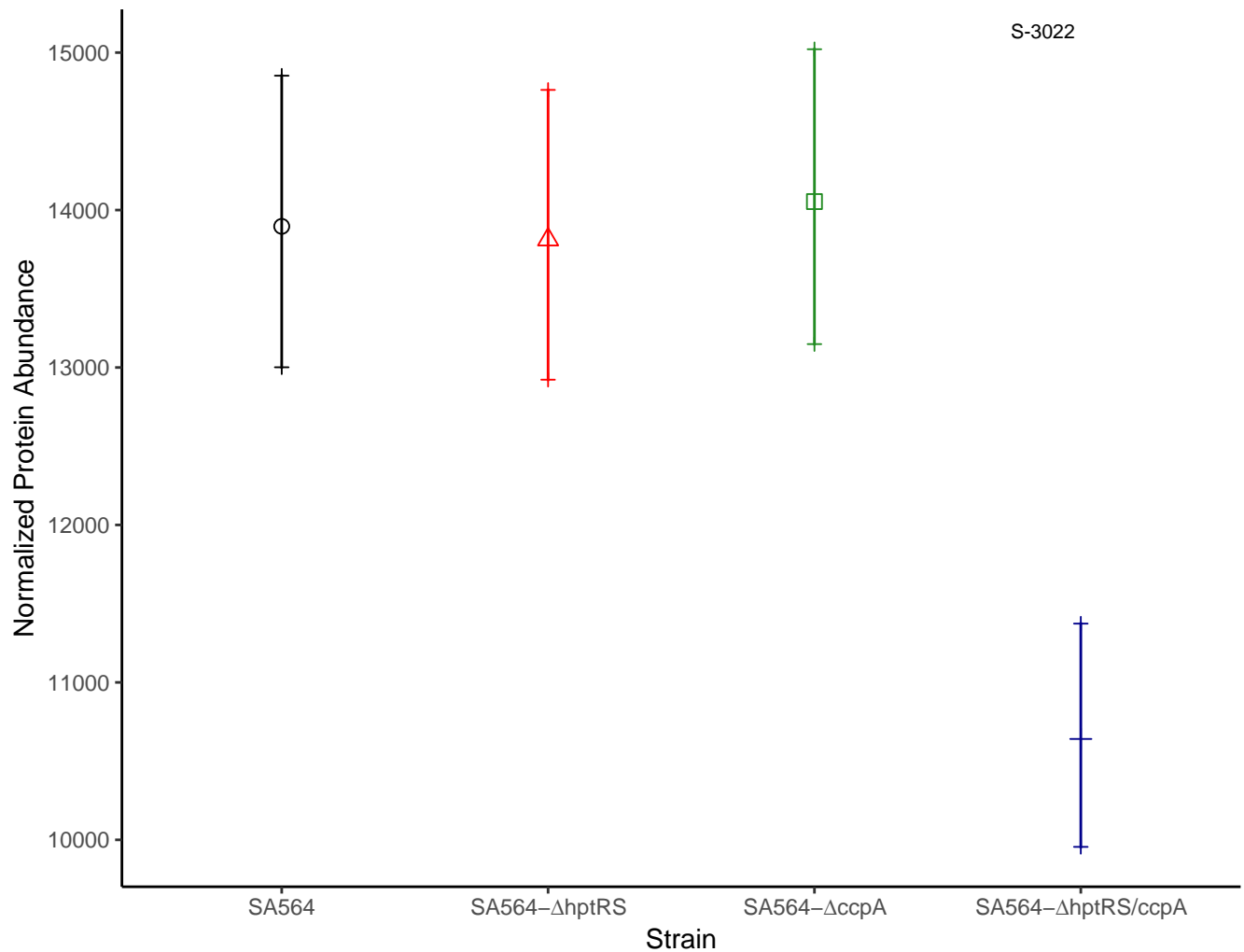
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ACCA\_STAAM



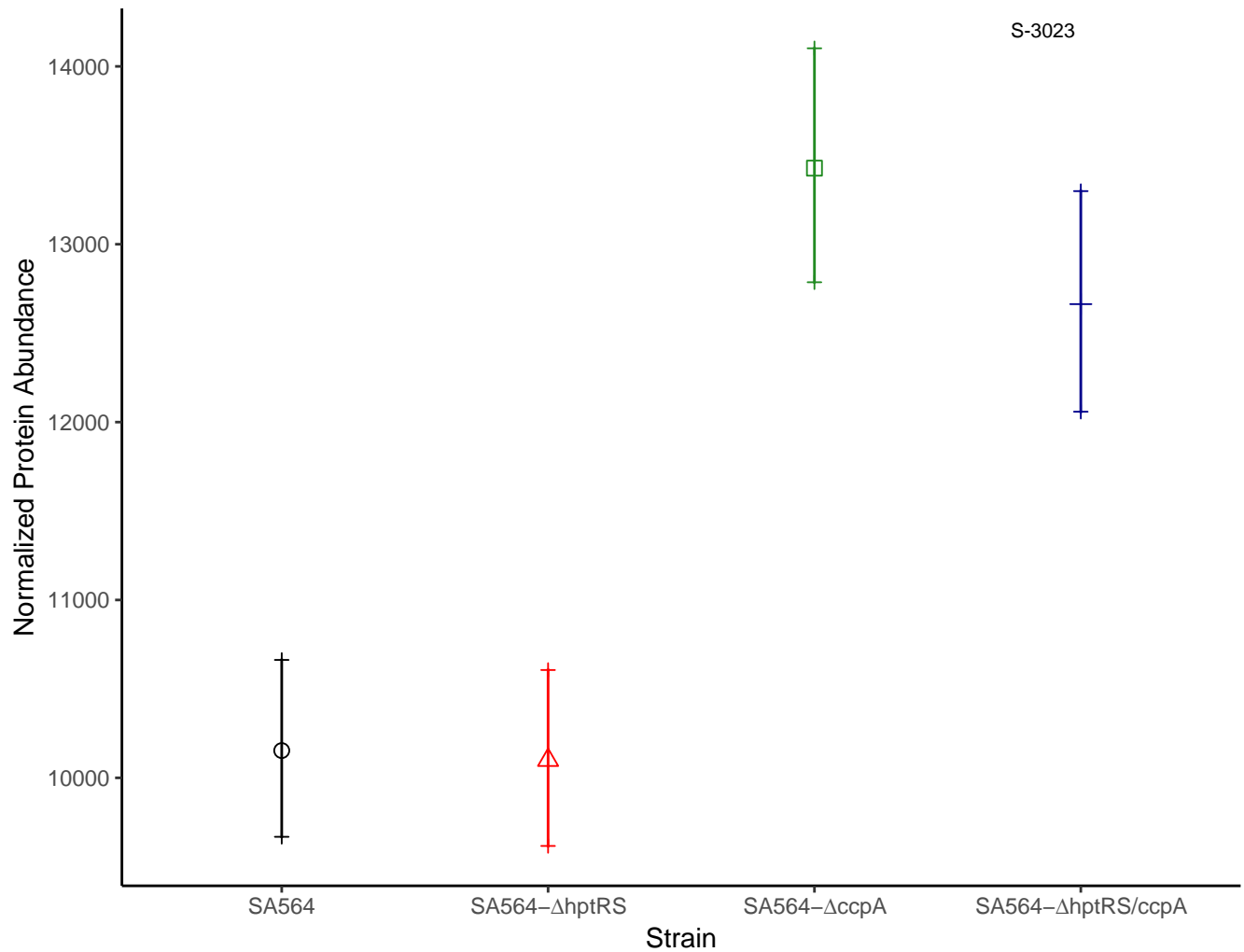
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# ACKA\_STAAM



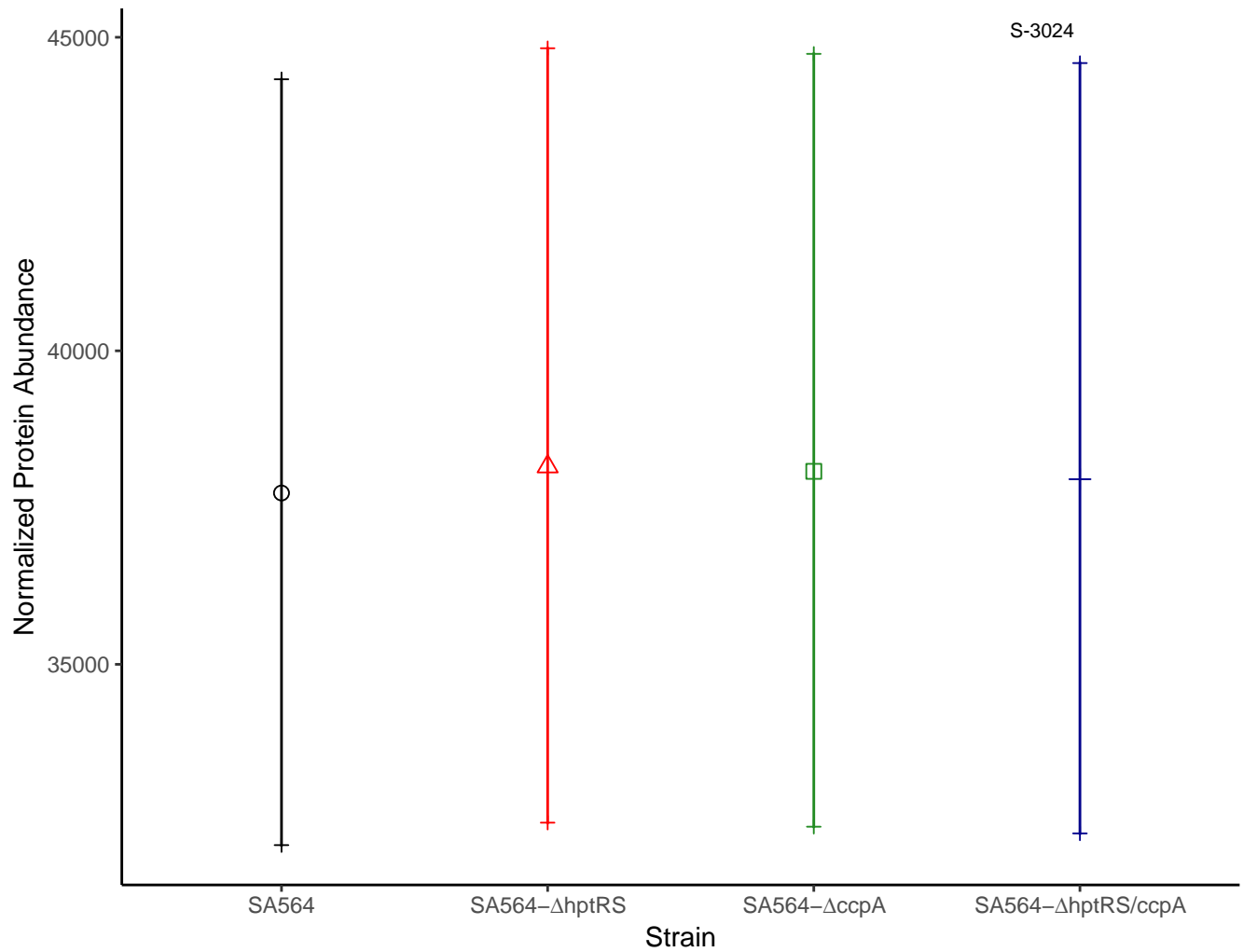
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ACON\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

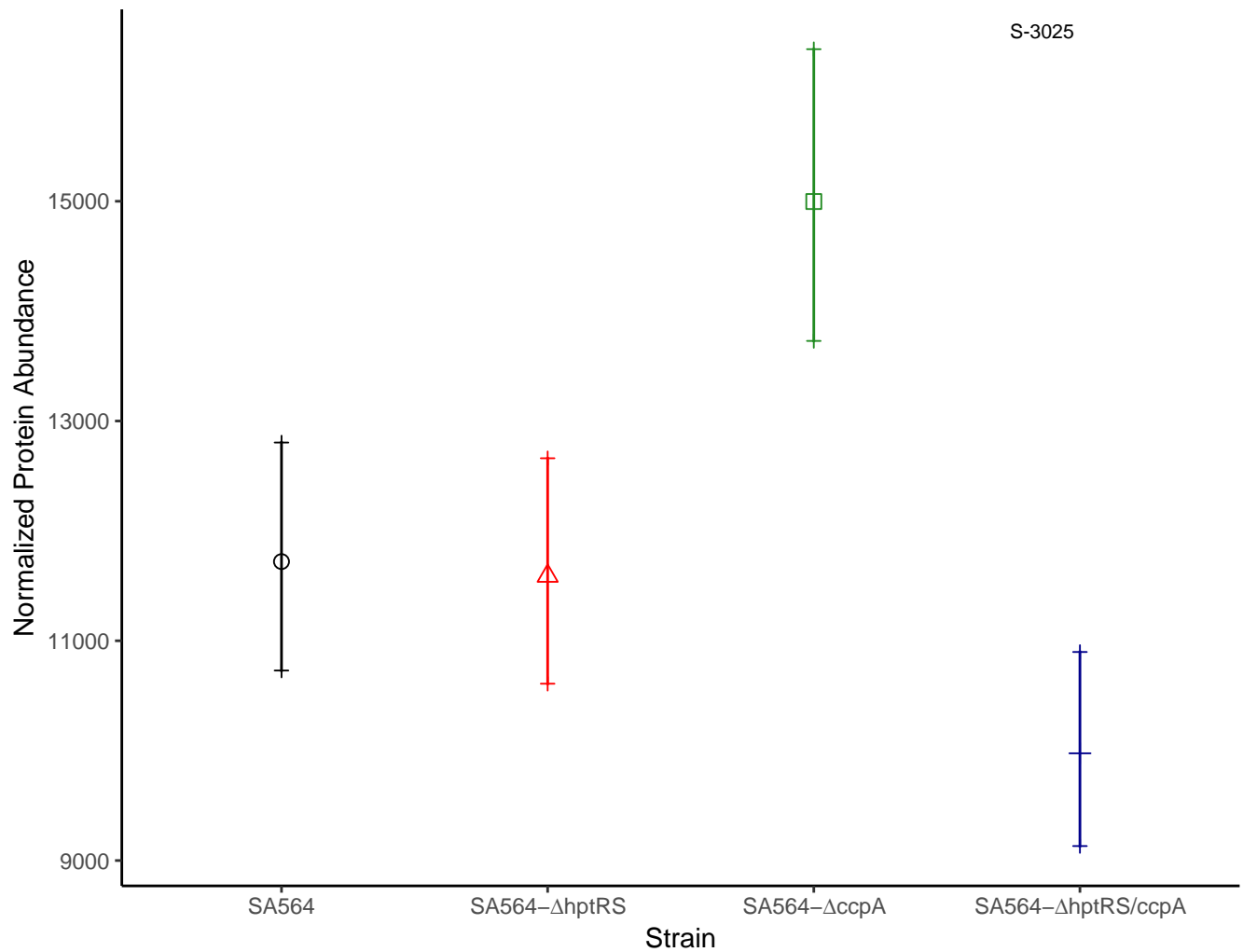
# ACP\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

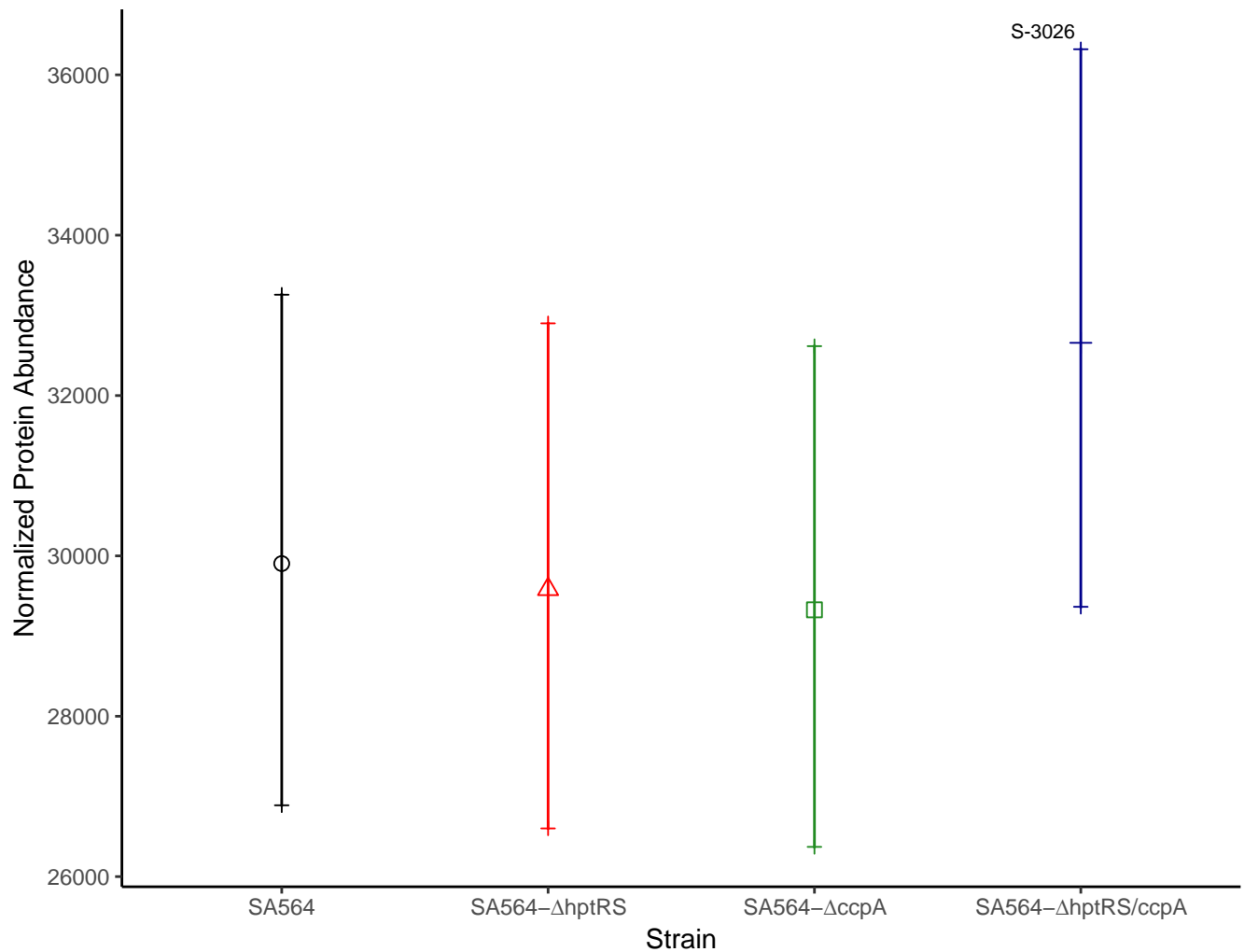


# ADH\_STAAM



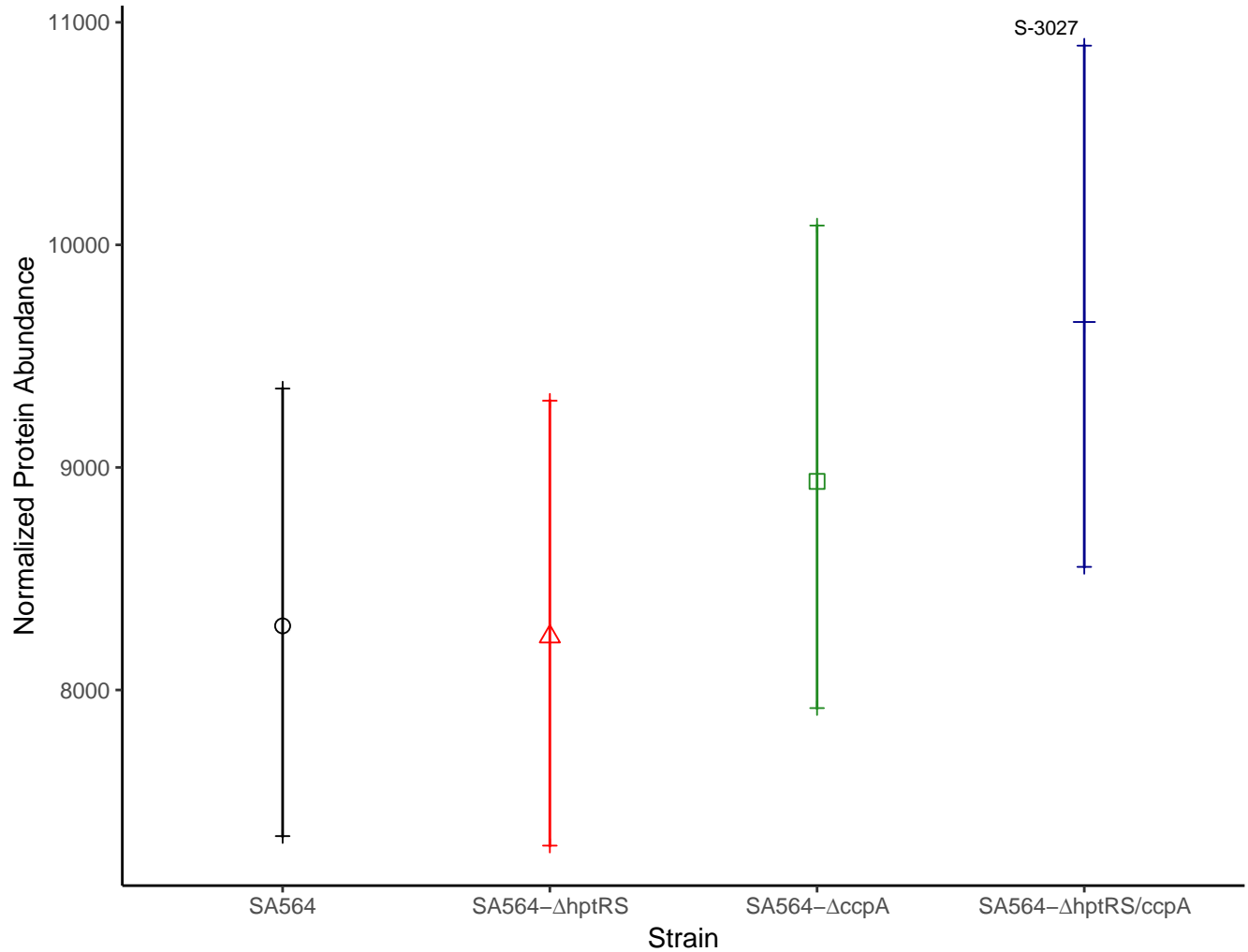
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# AHPC\_STAAM



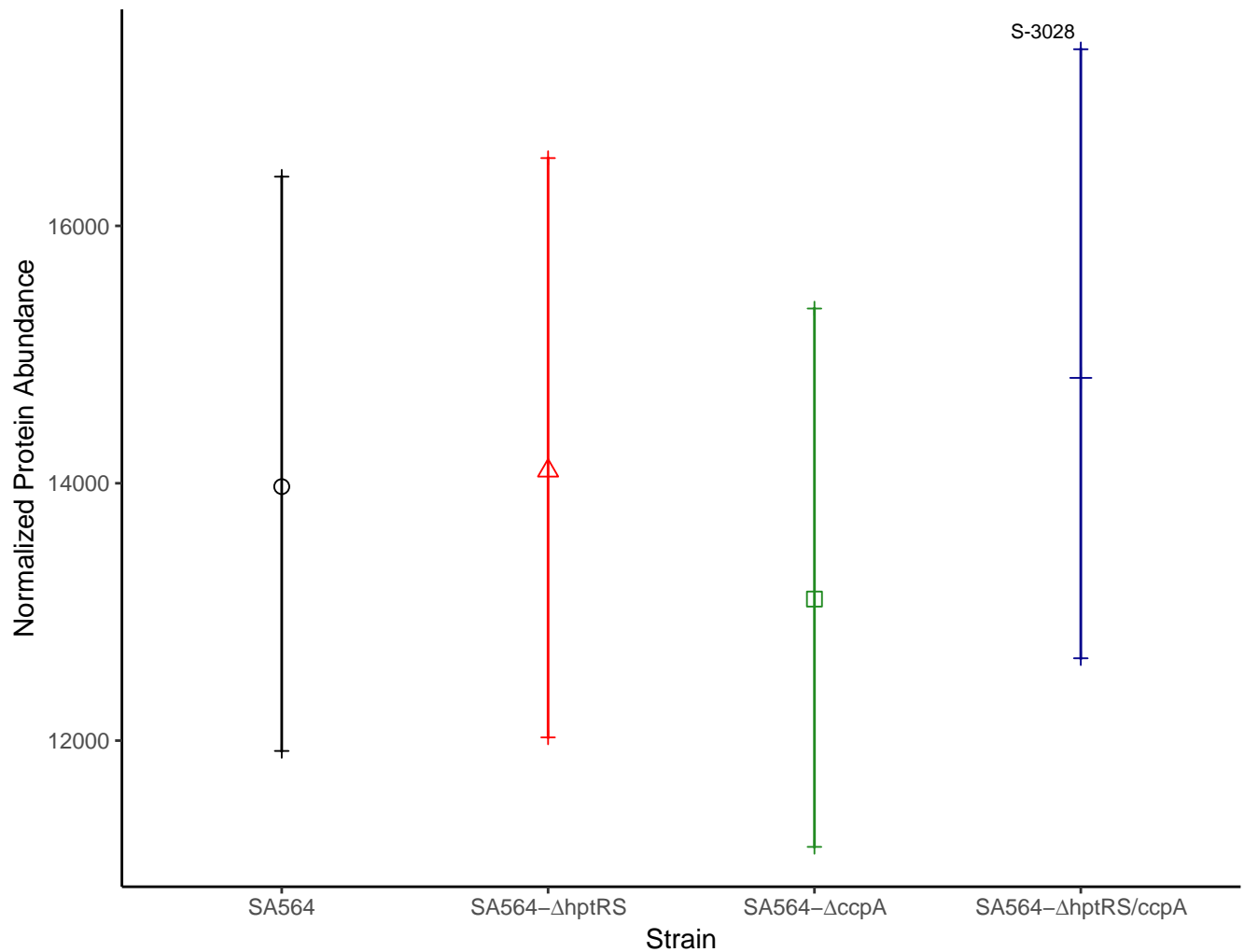
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# AHPF\_STAAM



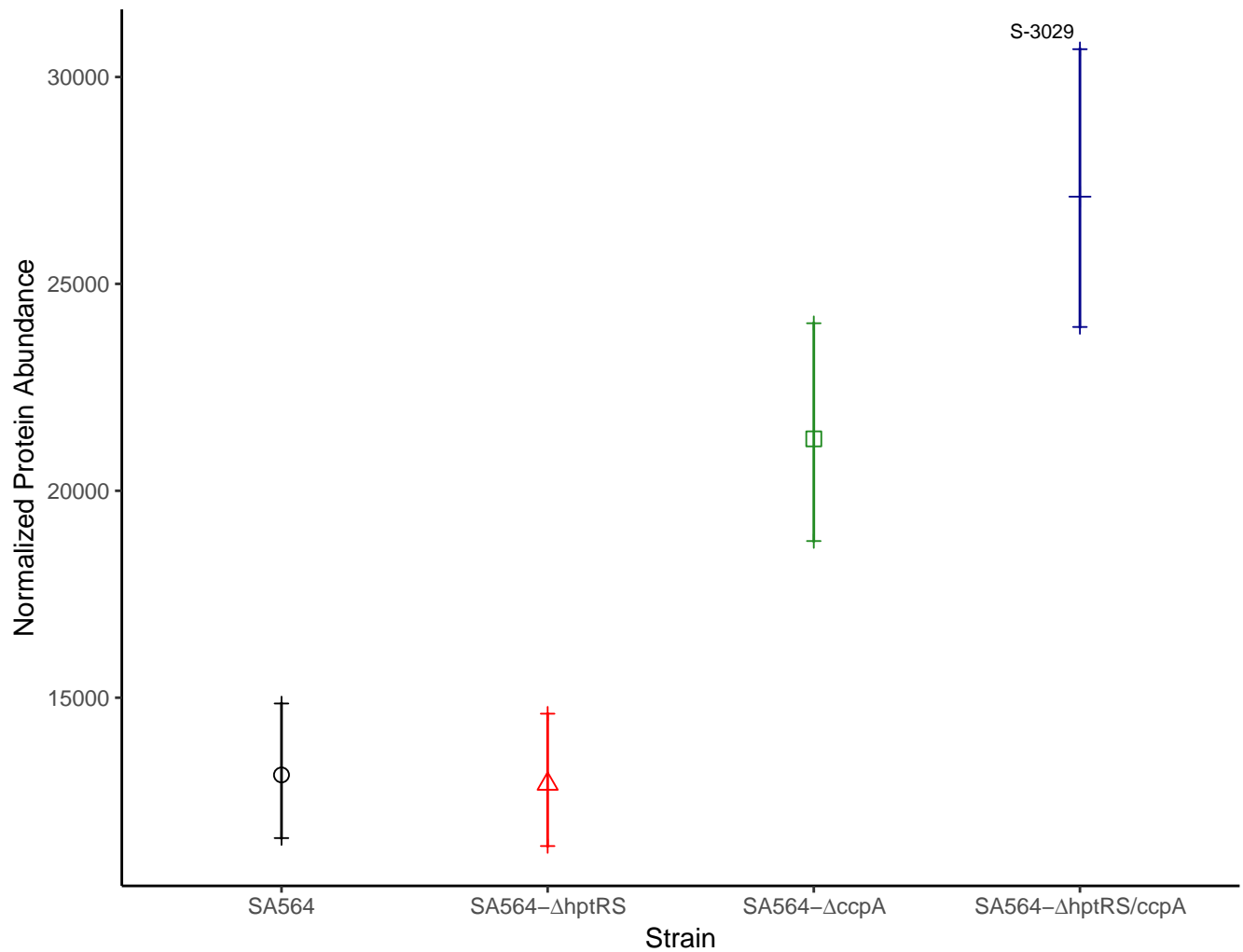
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ALD1\_STAAM



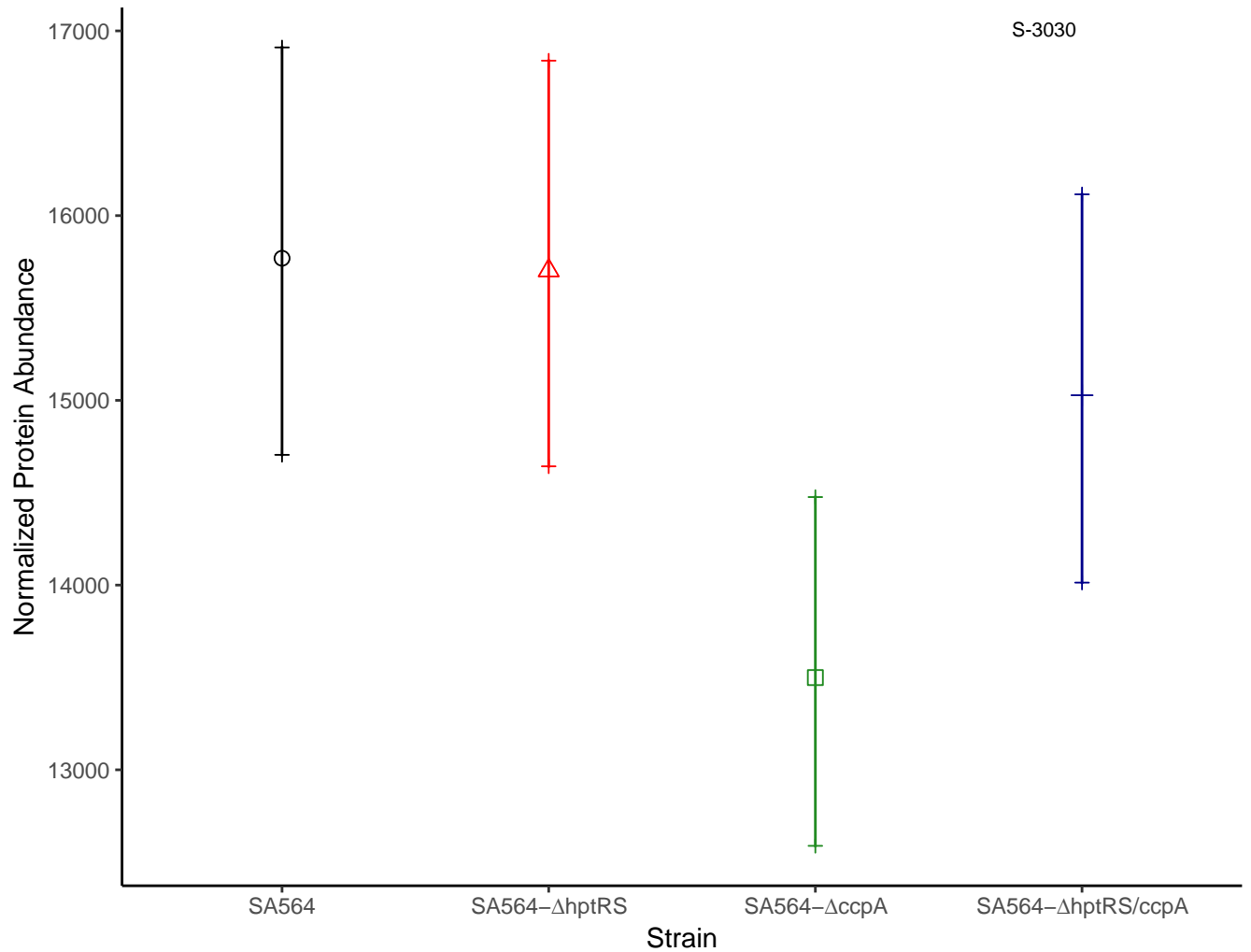
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ALDA\_STAAM



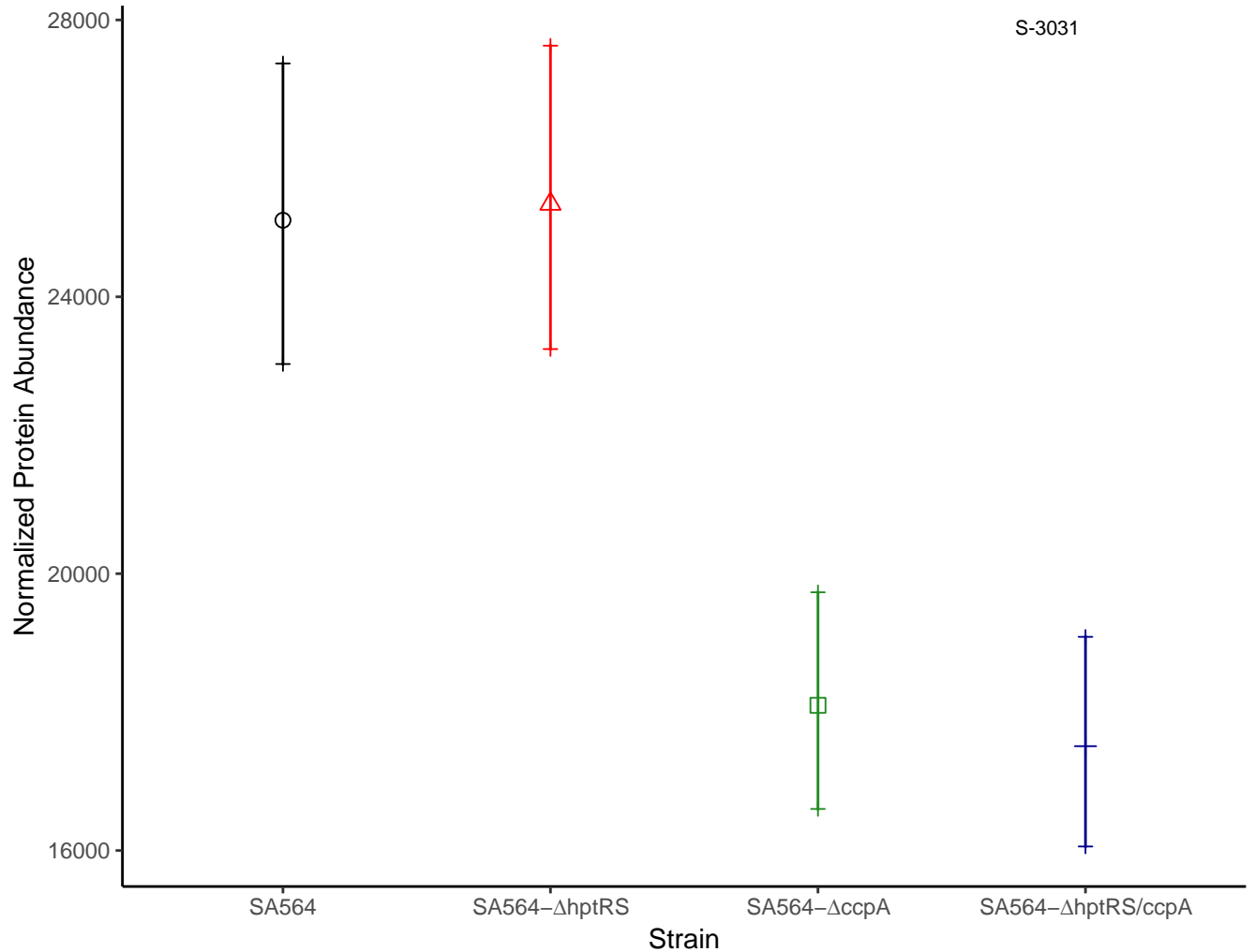
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ALF1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

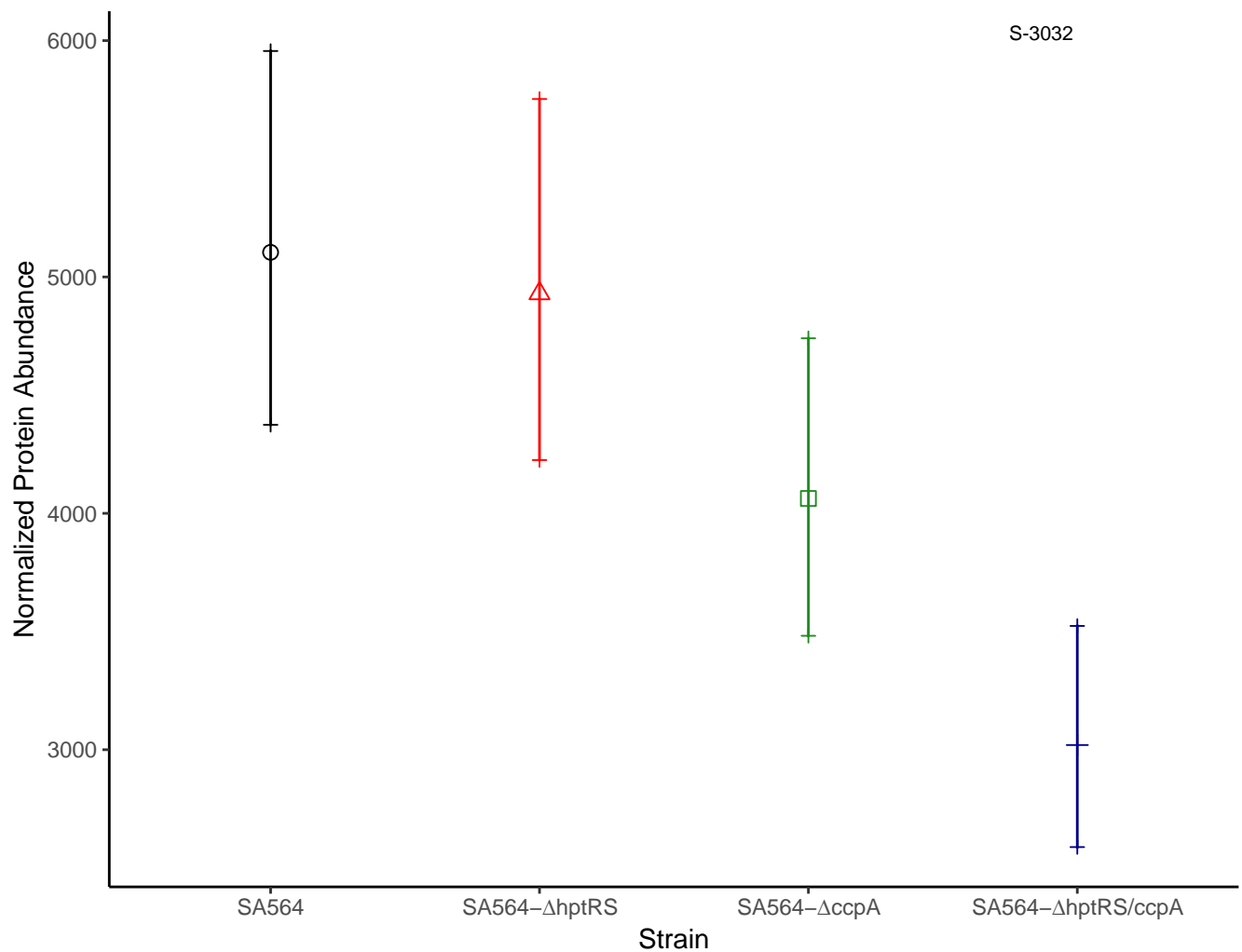
# ALF2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# APT\_STAAM

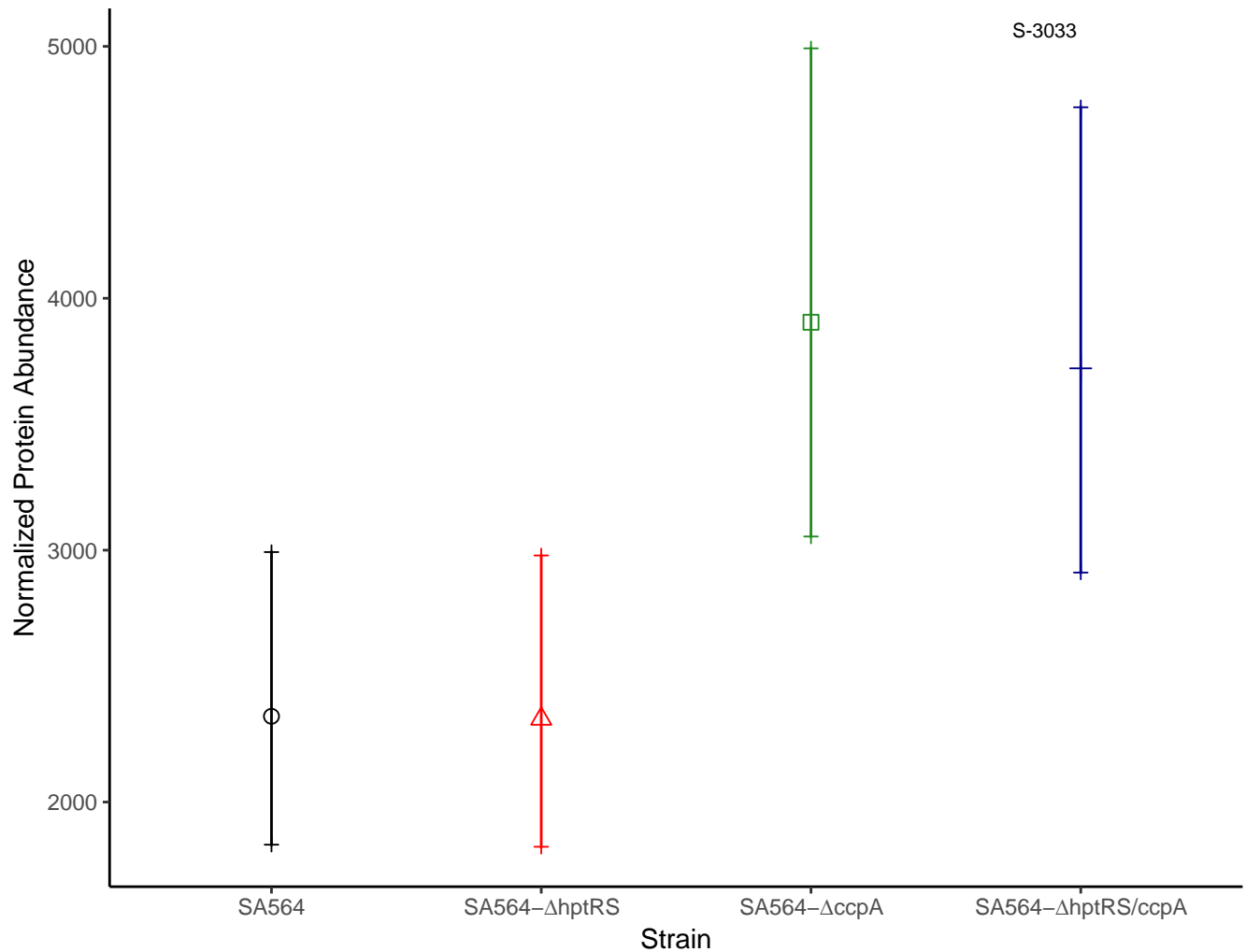
S-3032



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

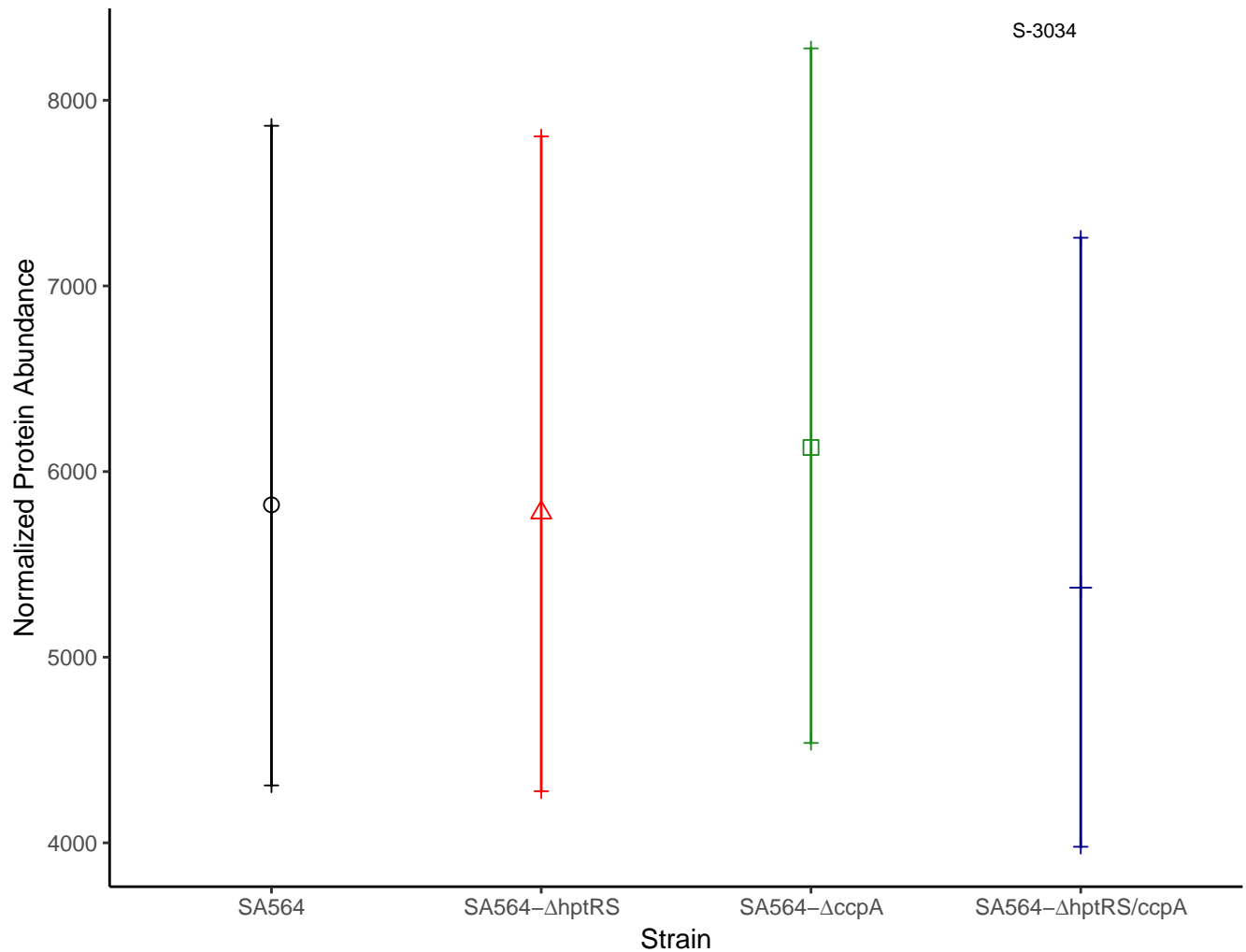


# ARCA\_STAAM



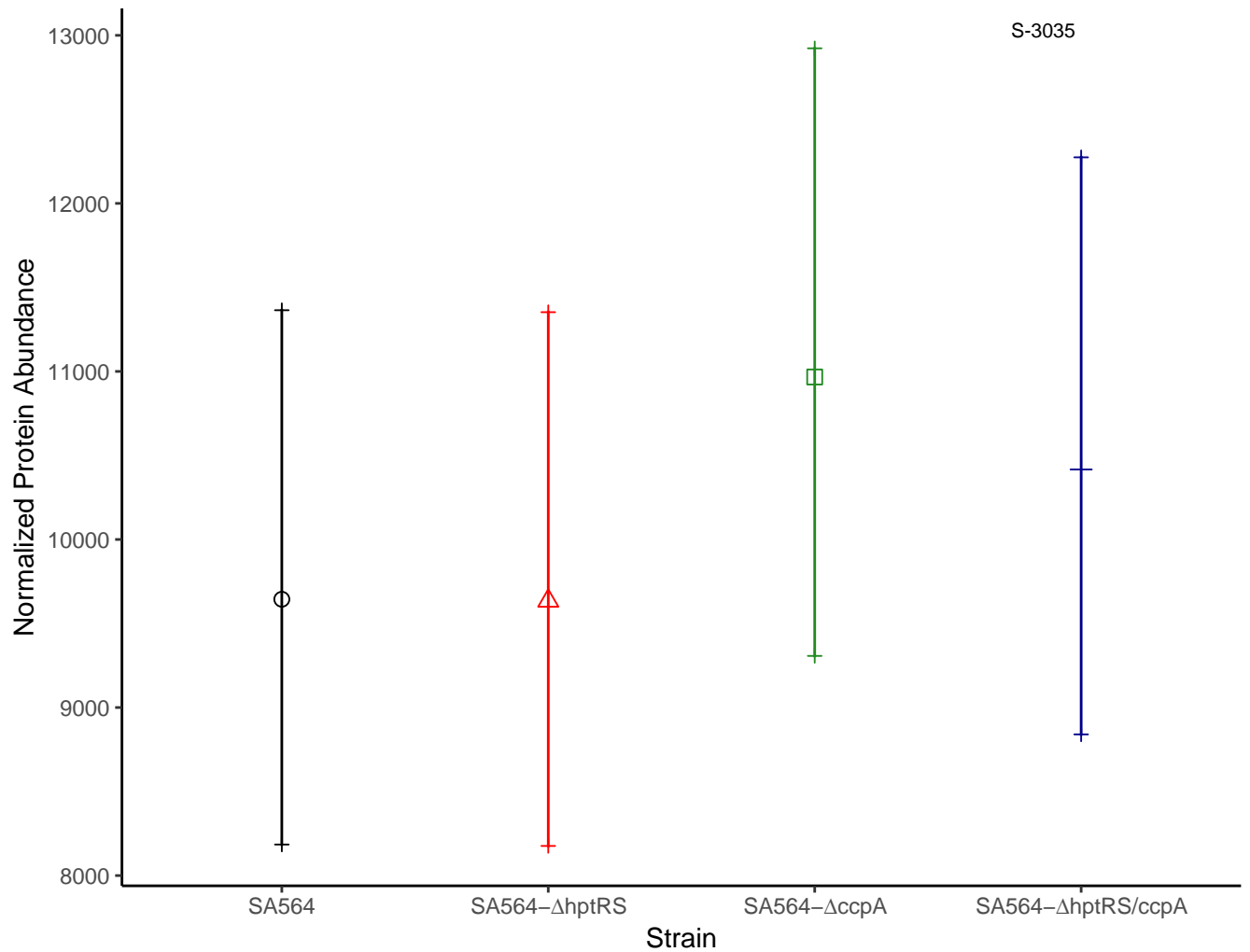
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARCC1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

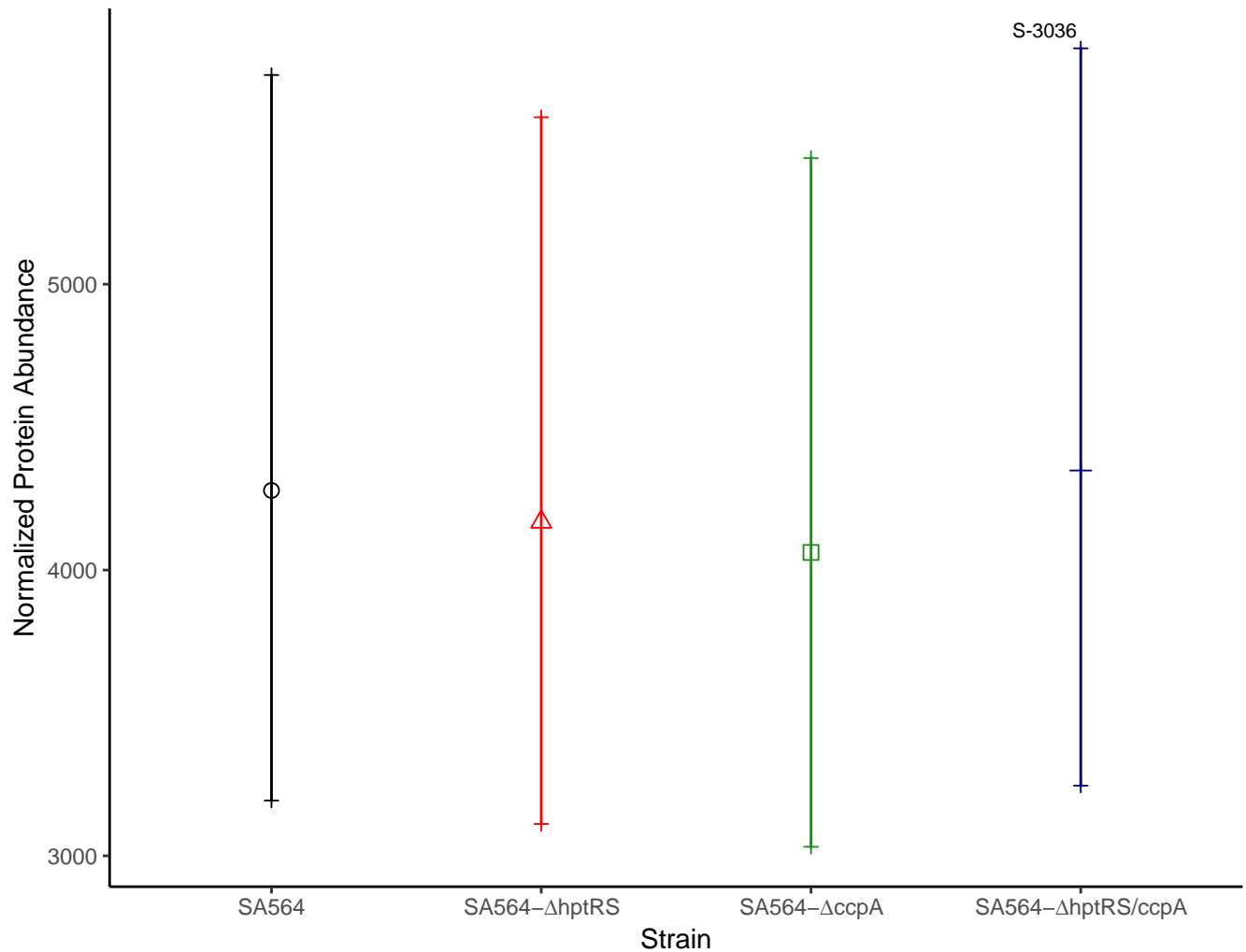
# ARGI\_STAAM



S-3035

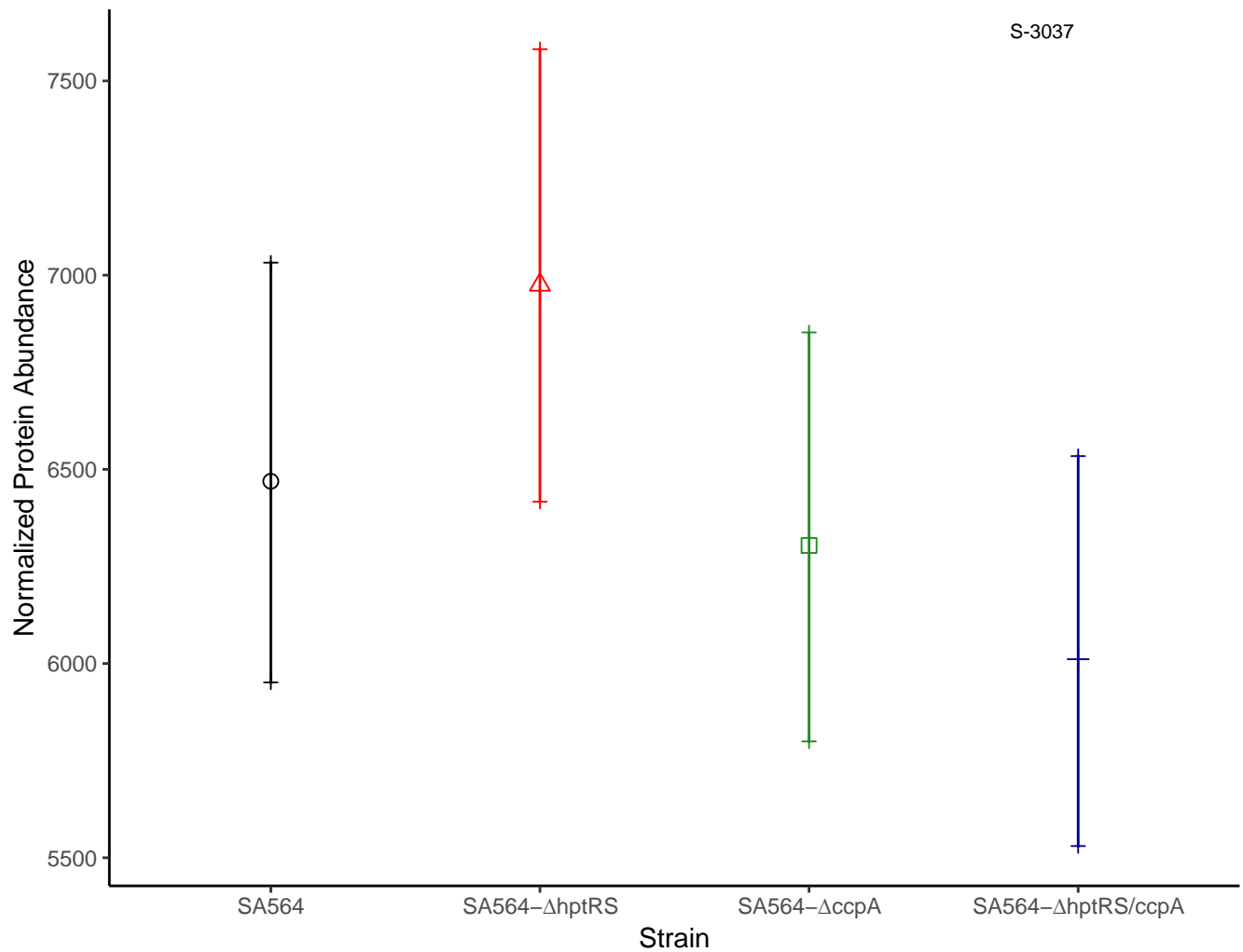
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARGR\_STAAM



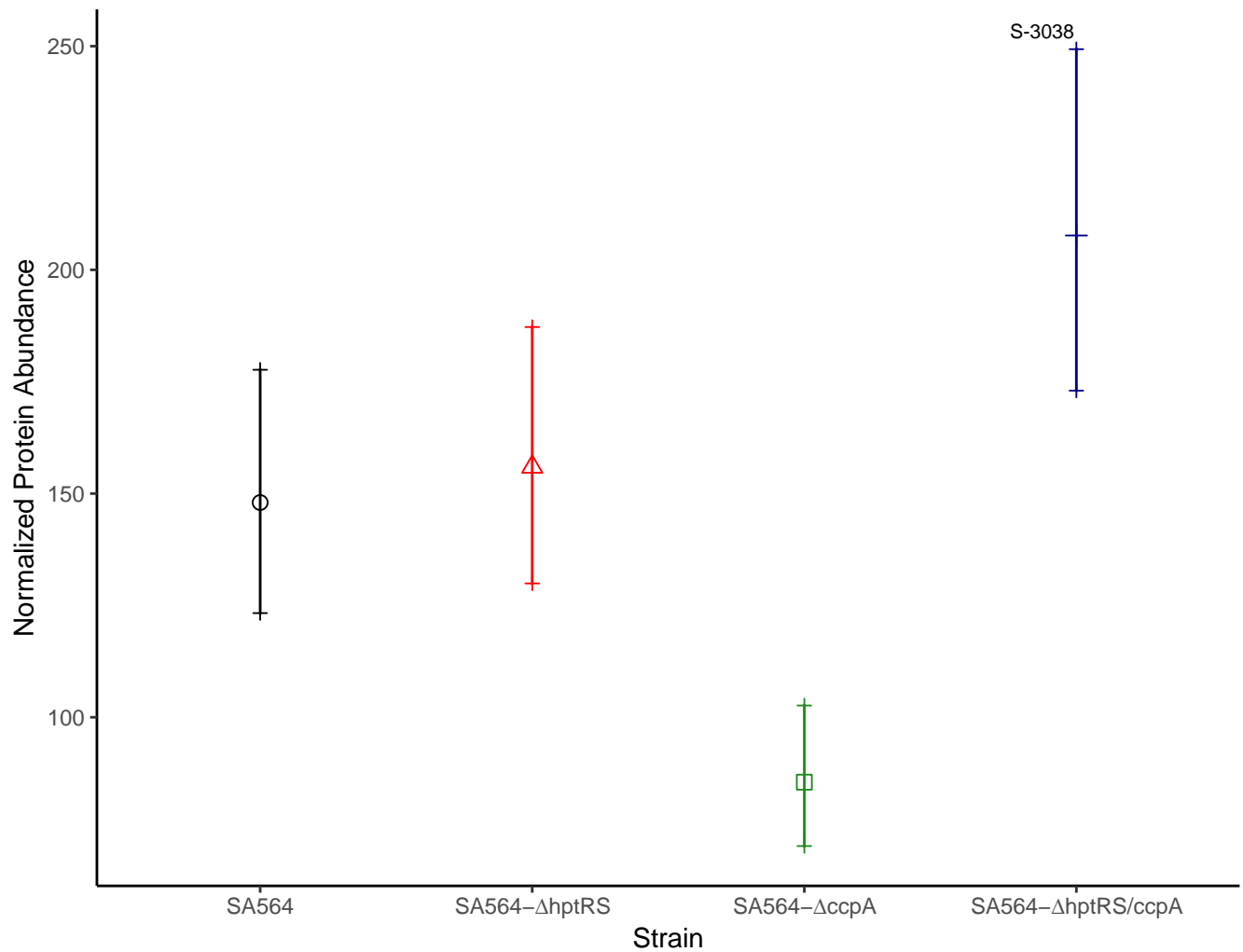
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARLR\_STAAM



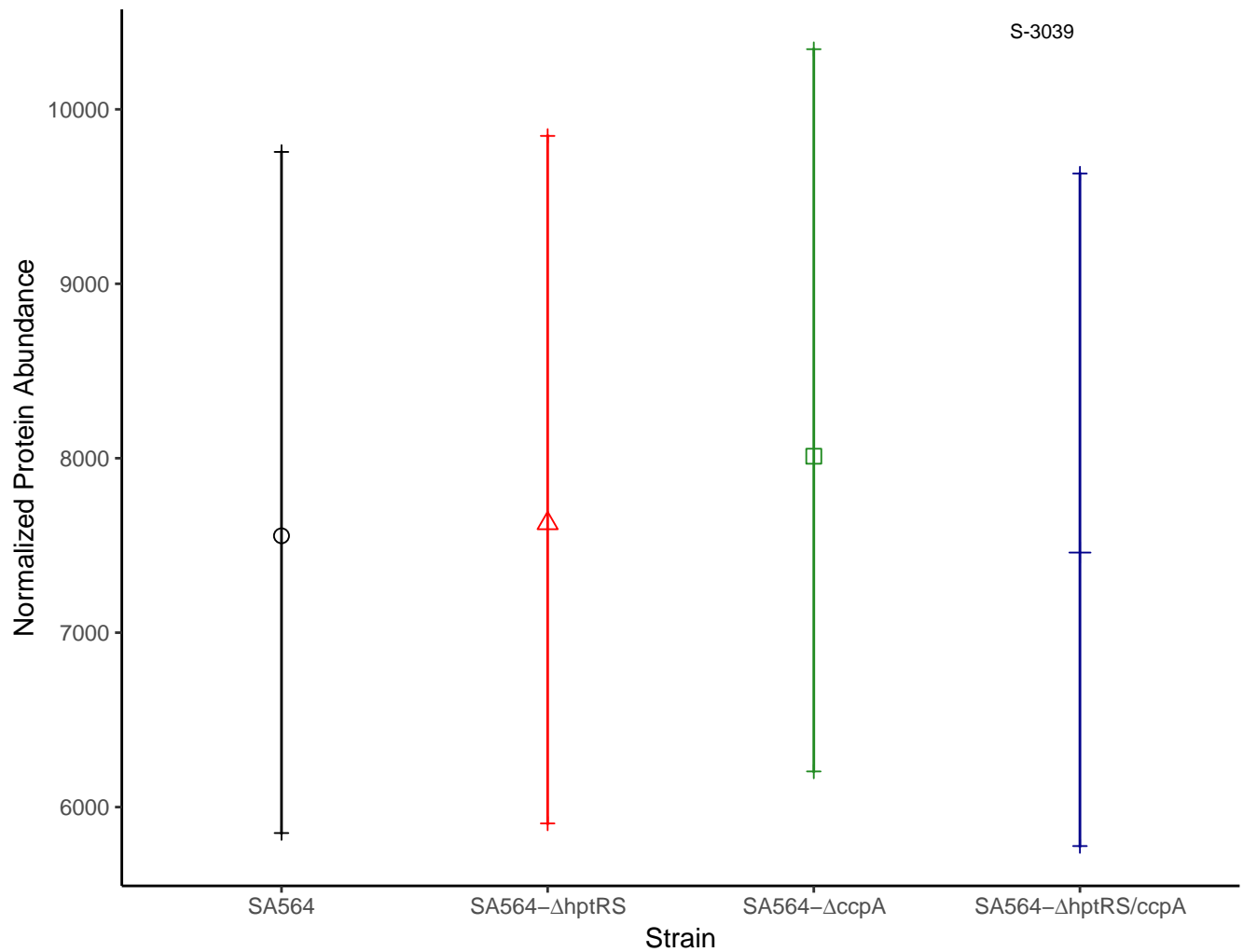
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ARLY\_STAAM



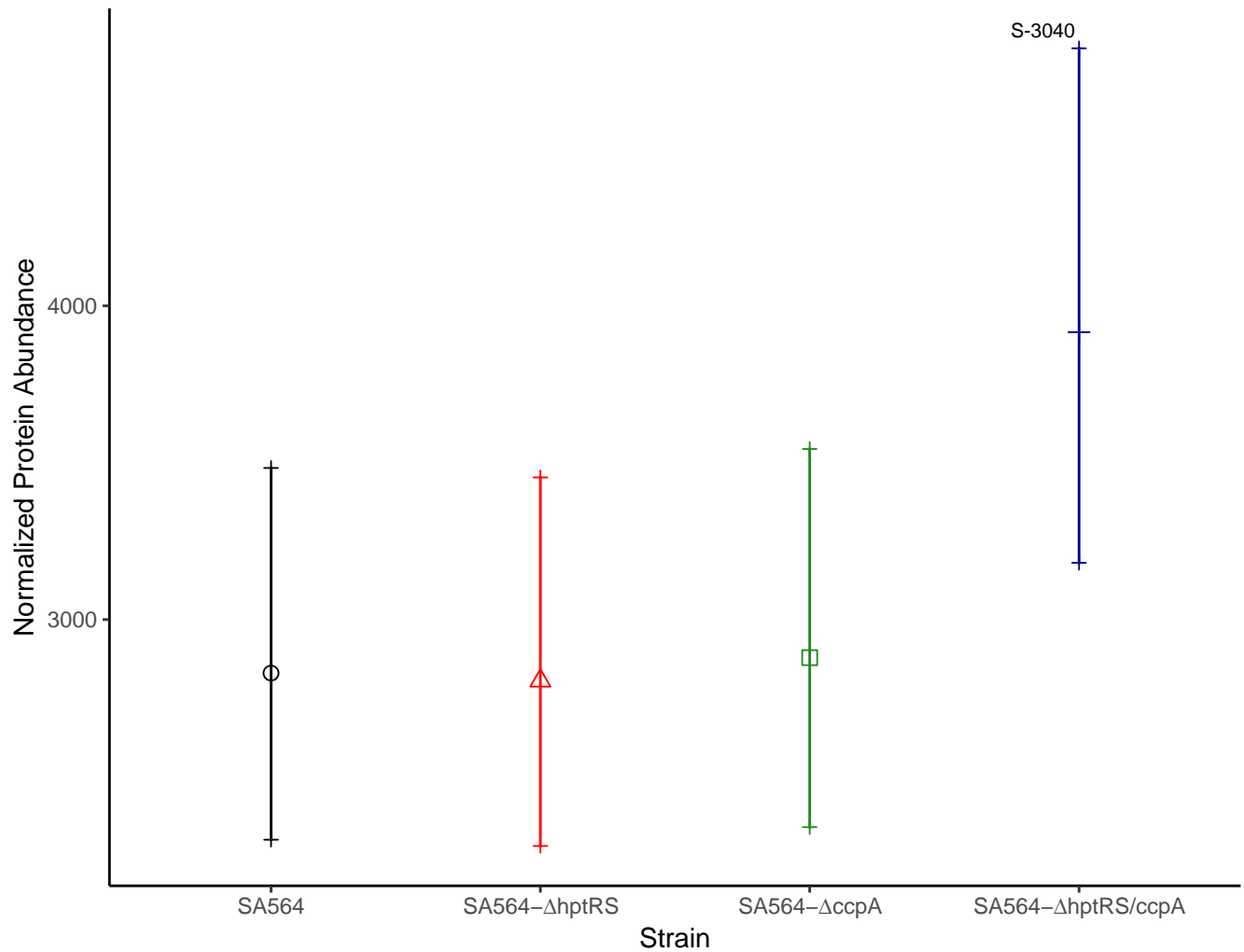
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# ARO<sub>A</sub>\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- ⊕ SA564- $\Delta$ *hptRS/ccpA*

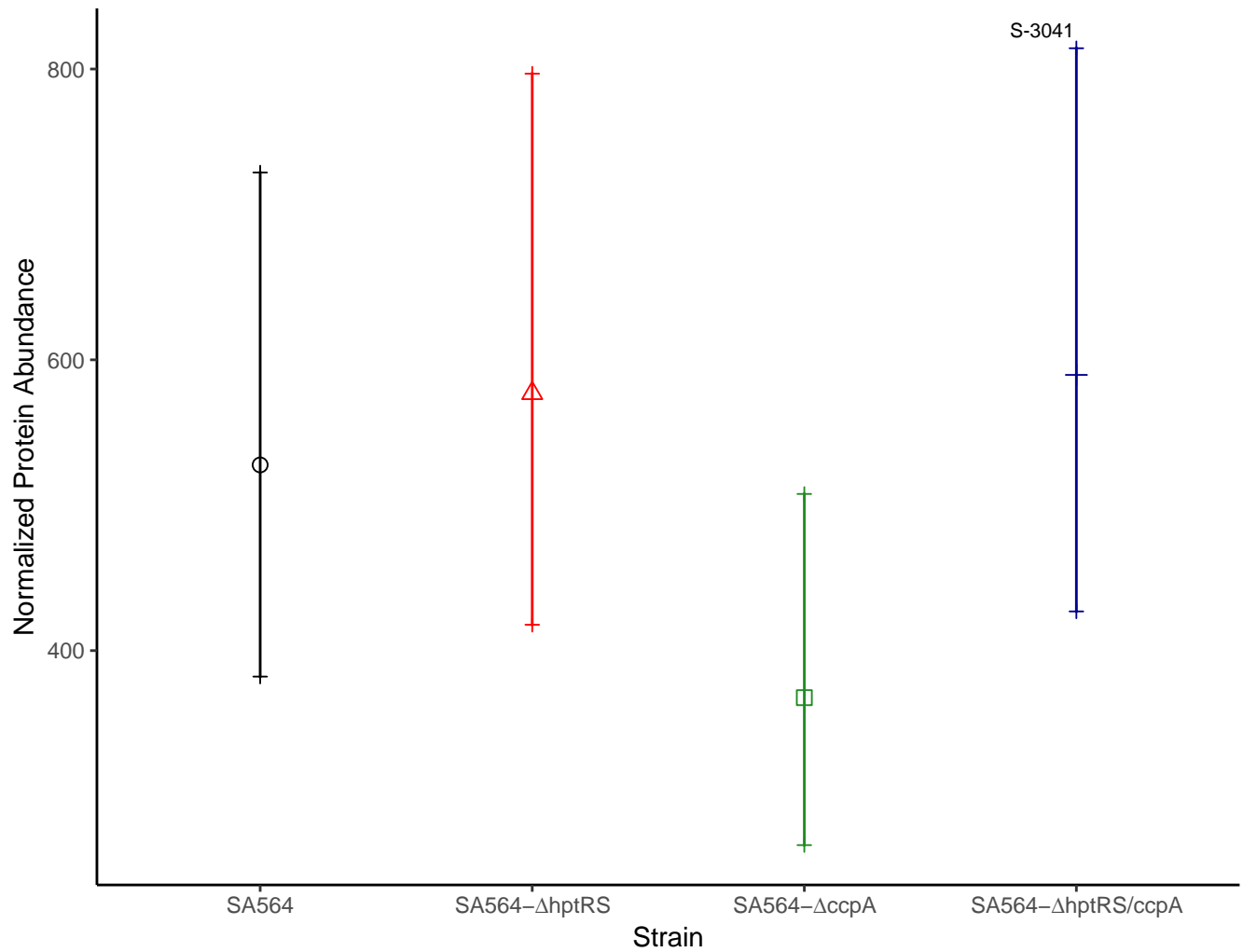
# AROB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

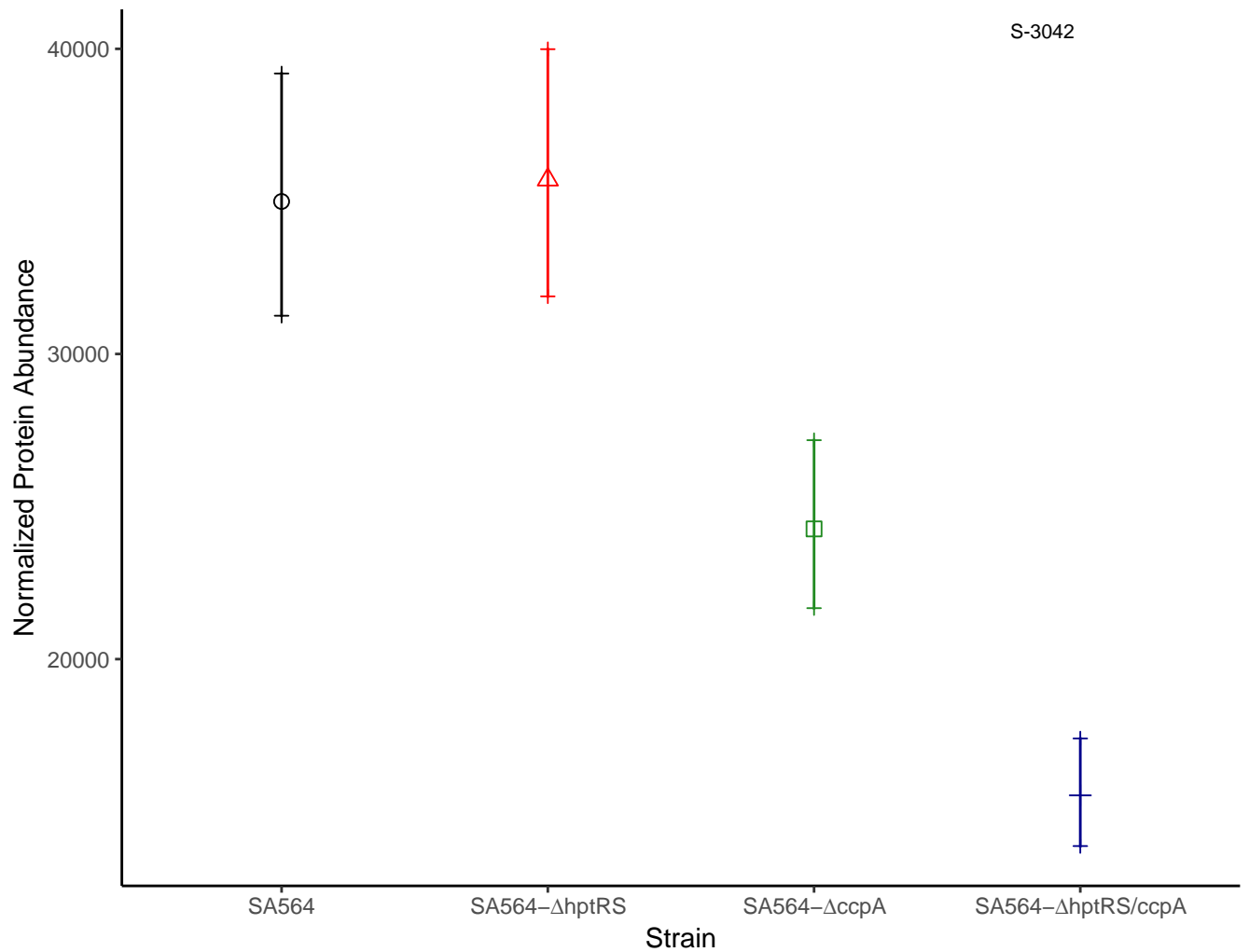


# AROE\_STAAM



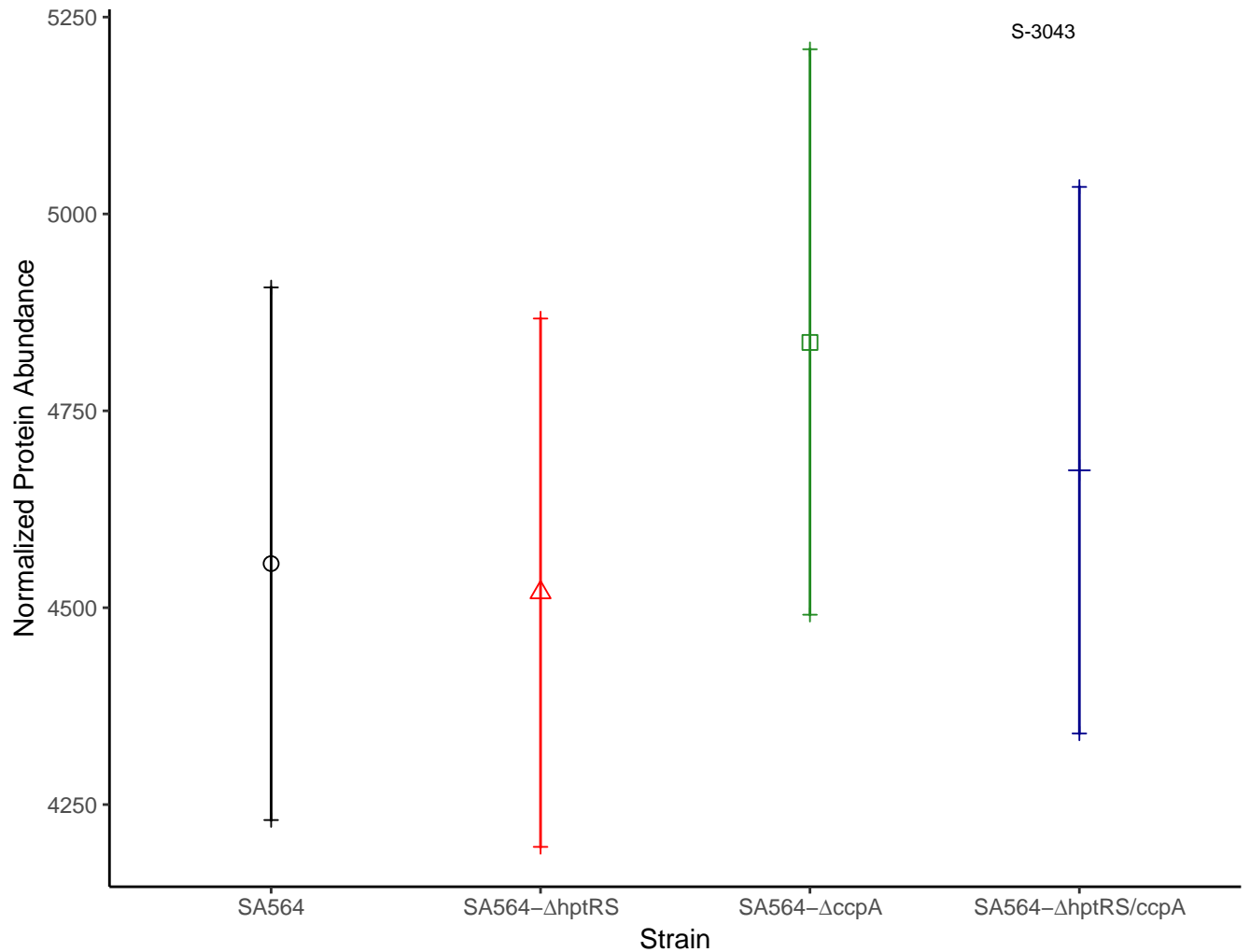
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# ASP23\_STAAM



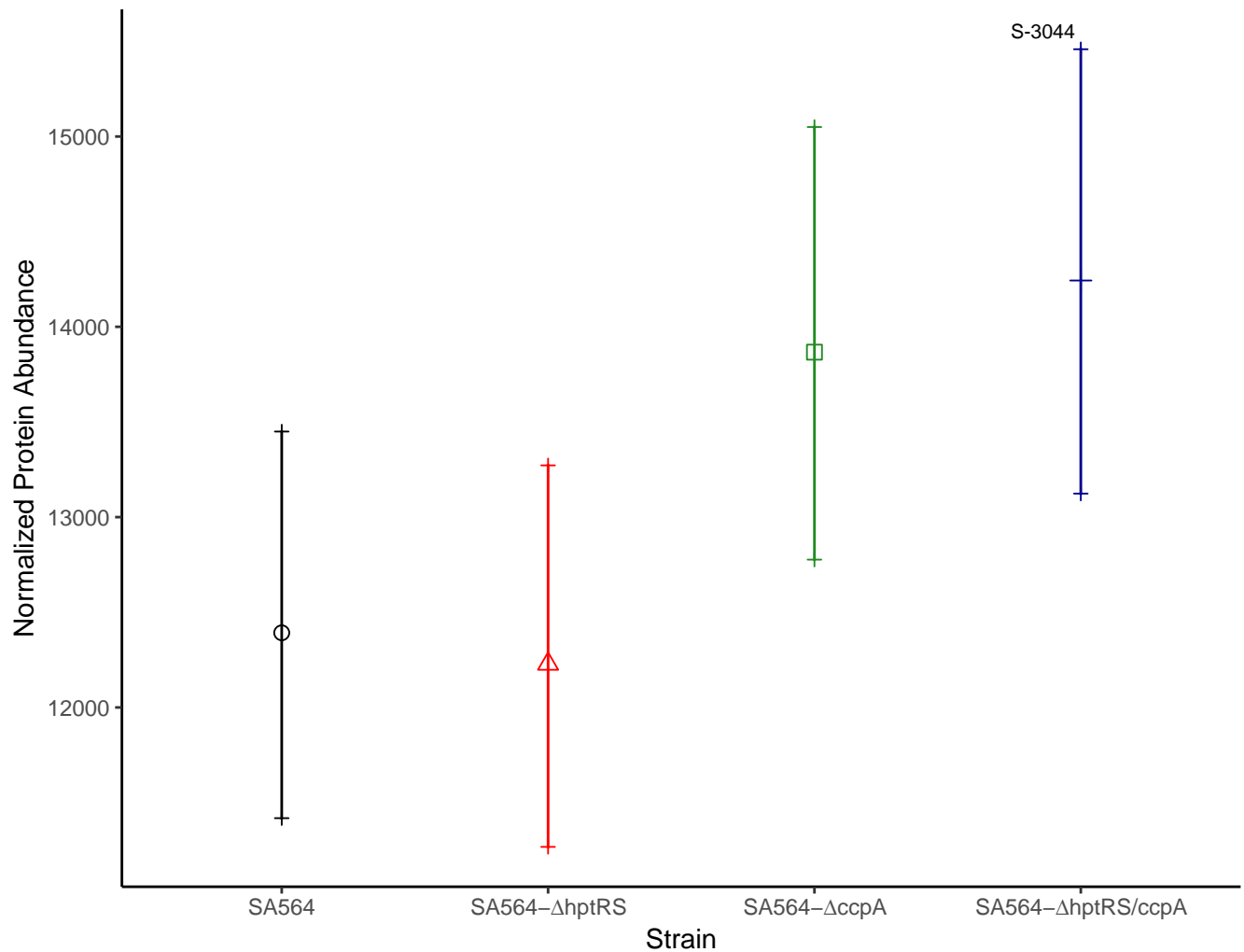
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATL\_STAAM



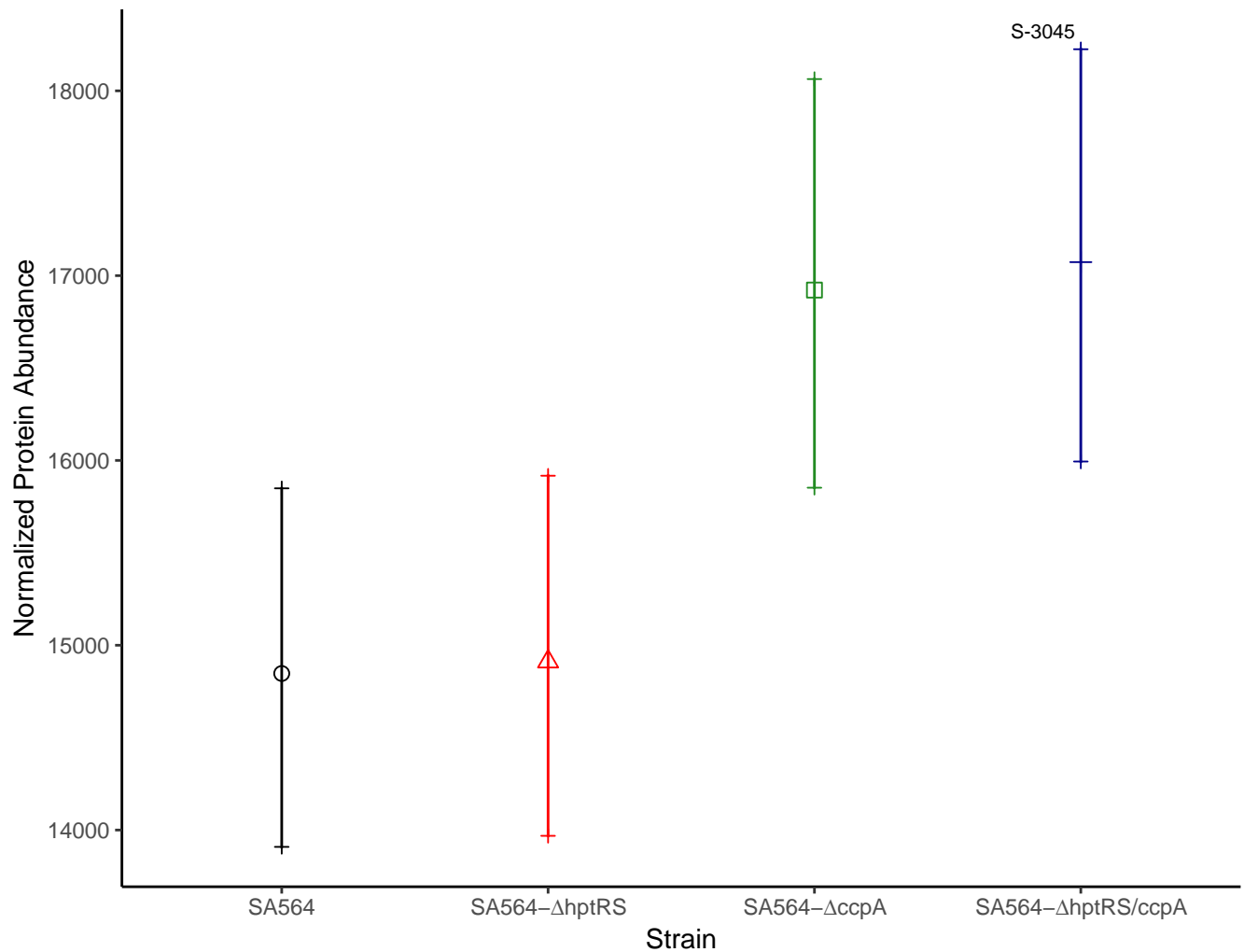
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPA\_STAAM



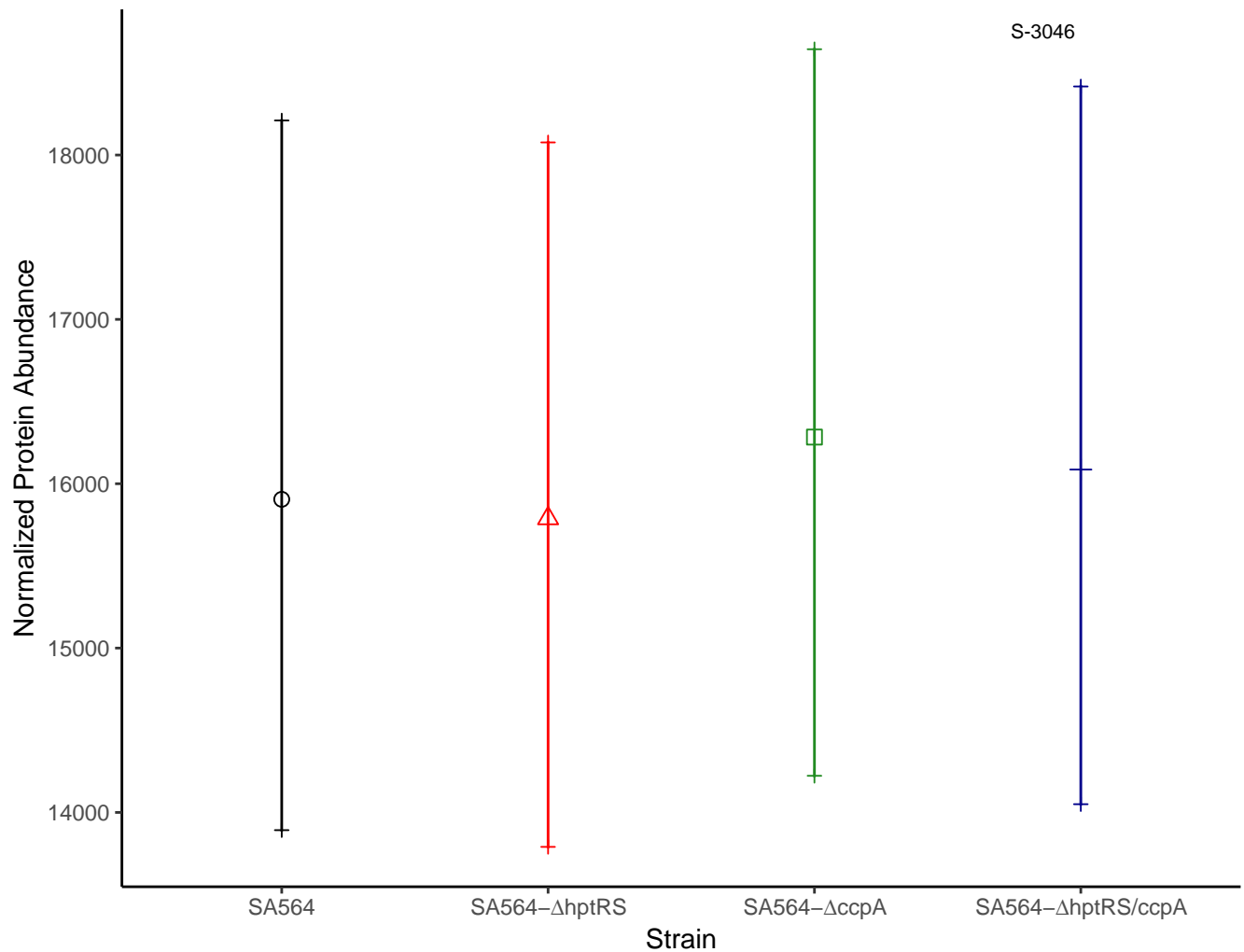
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATPB\_STAAM



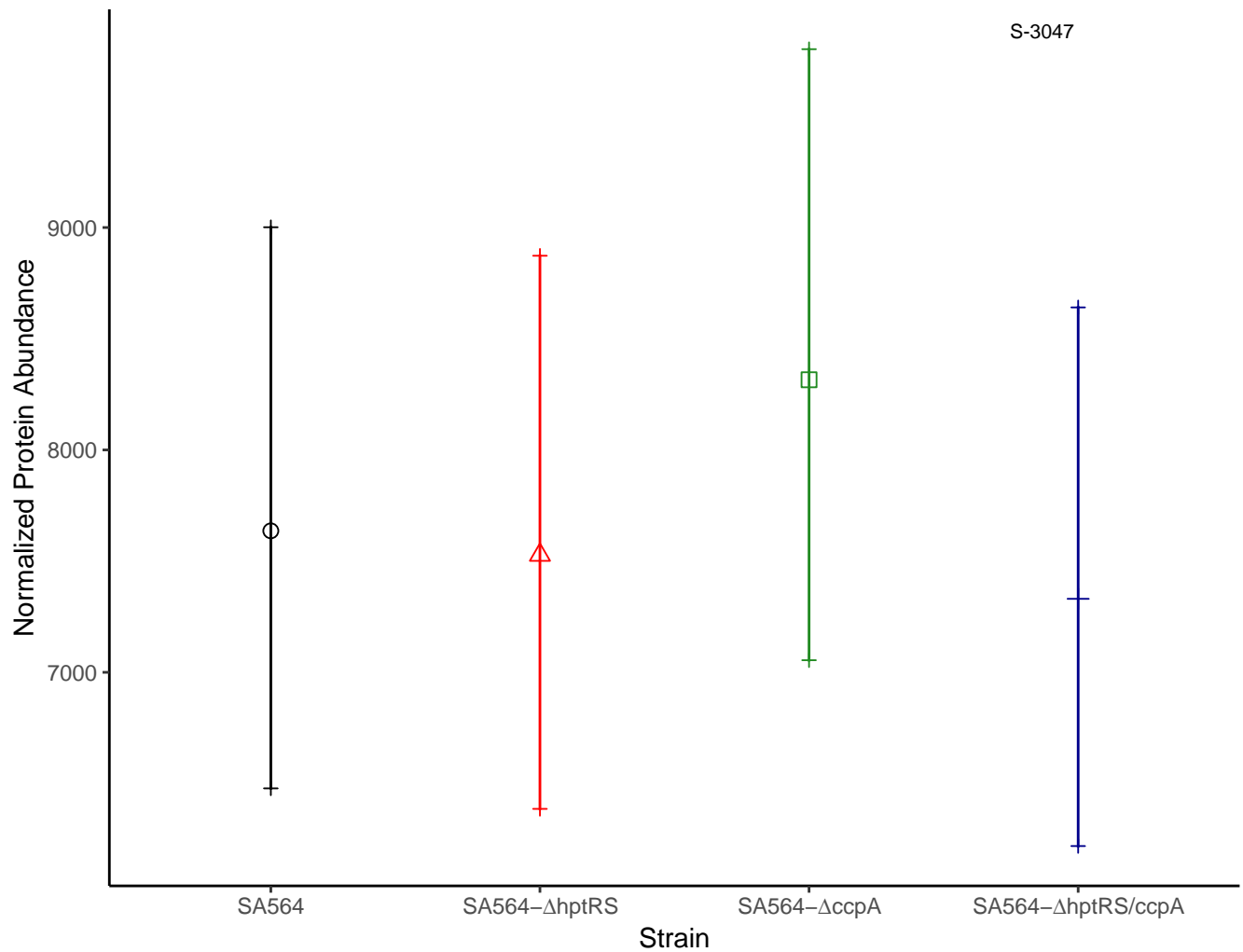
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ATPD\_STAAM



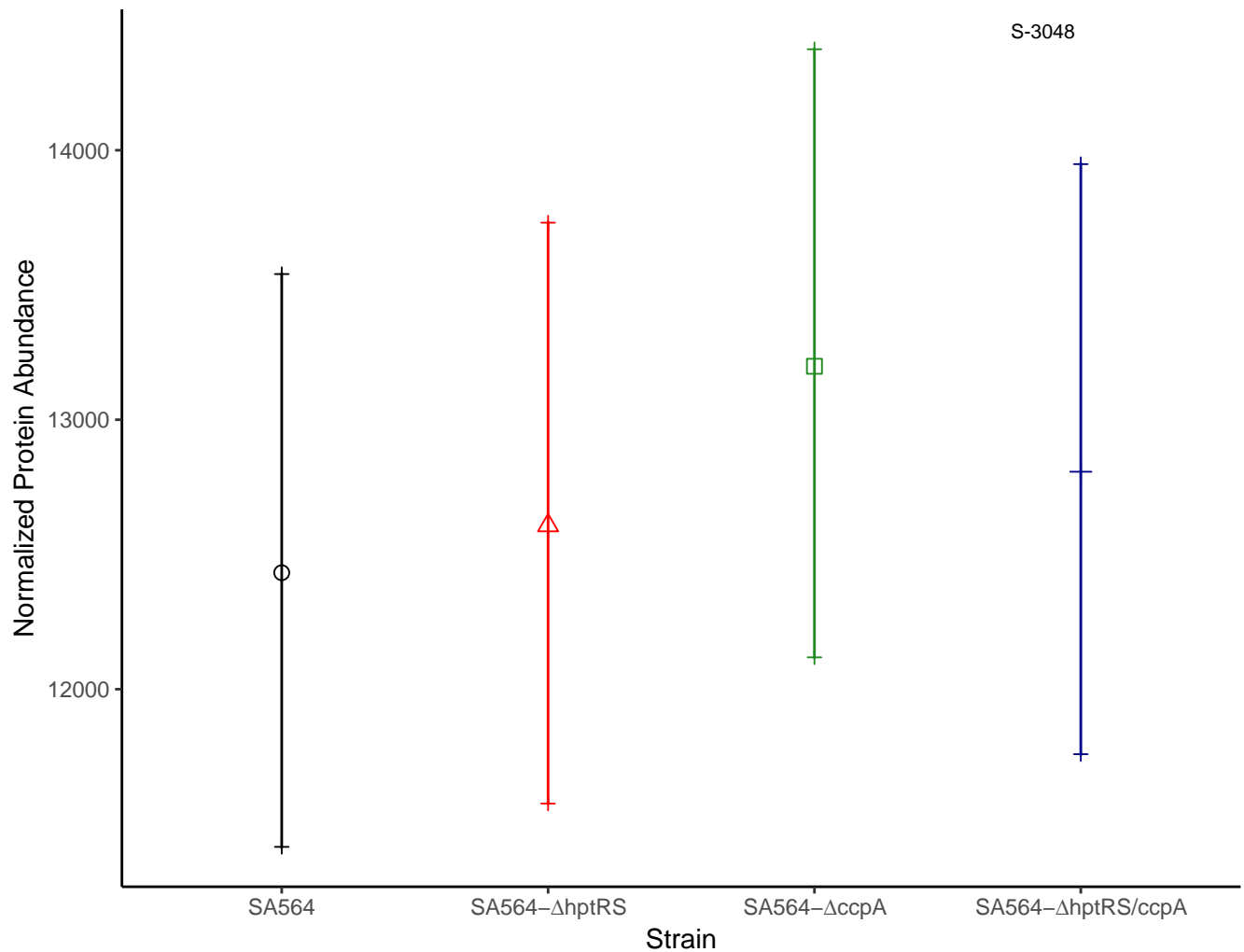
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ATPE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

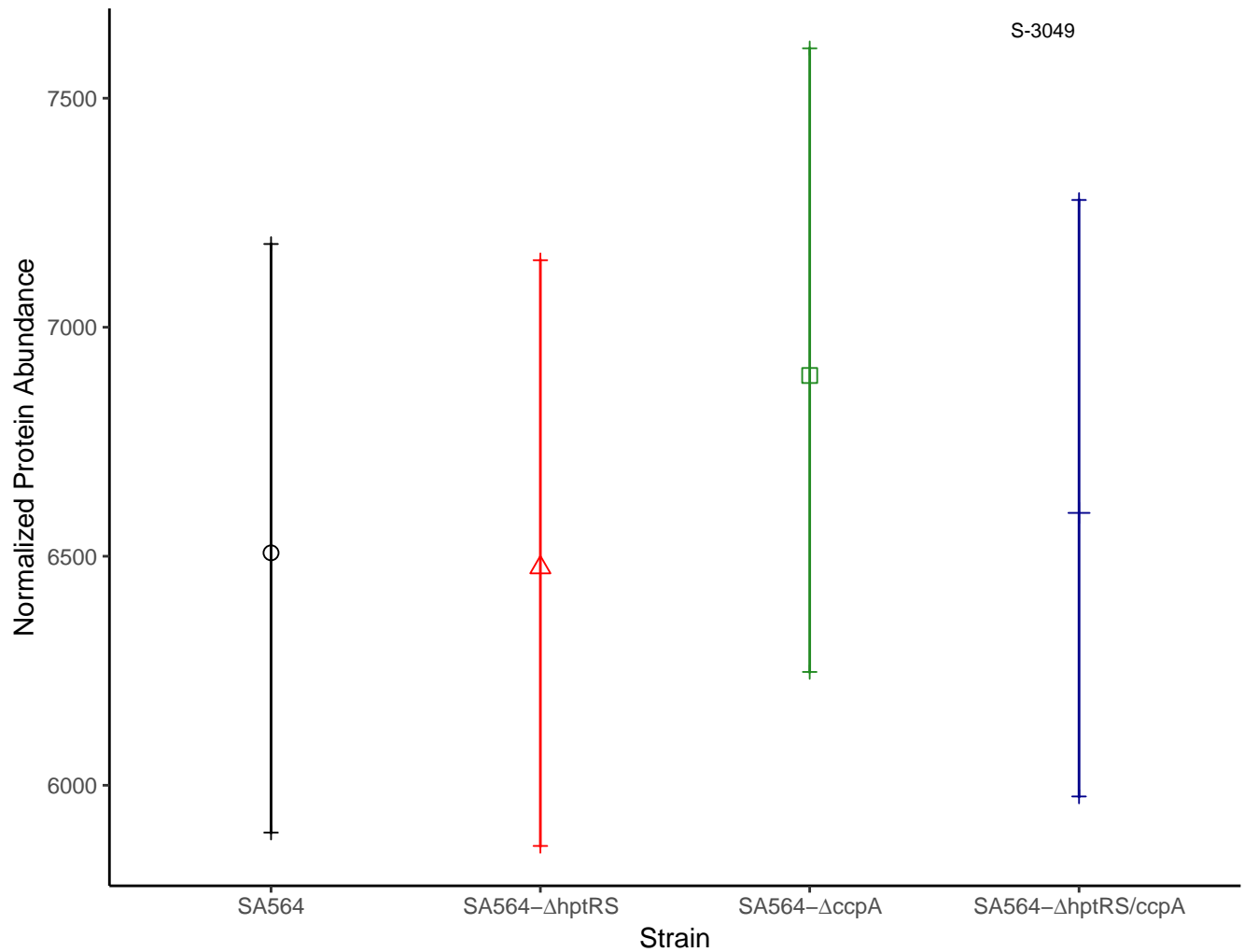
# ATPF\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

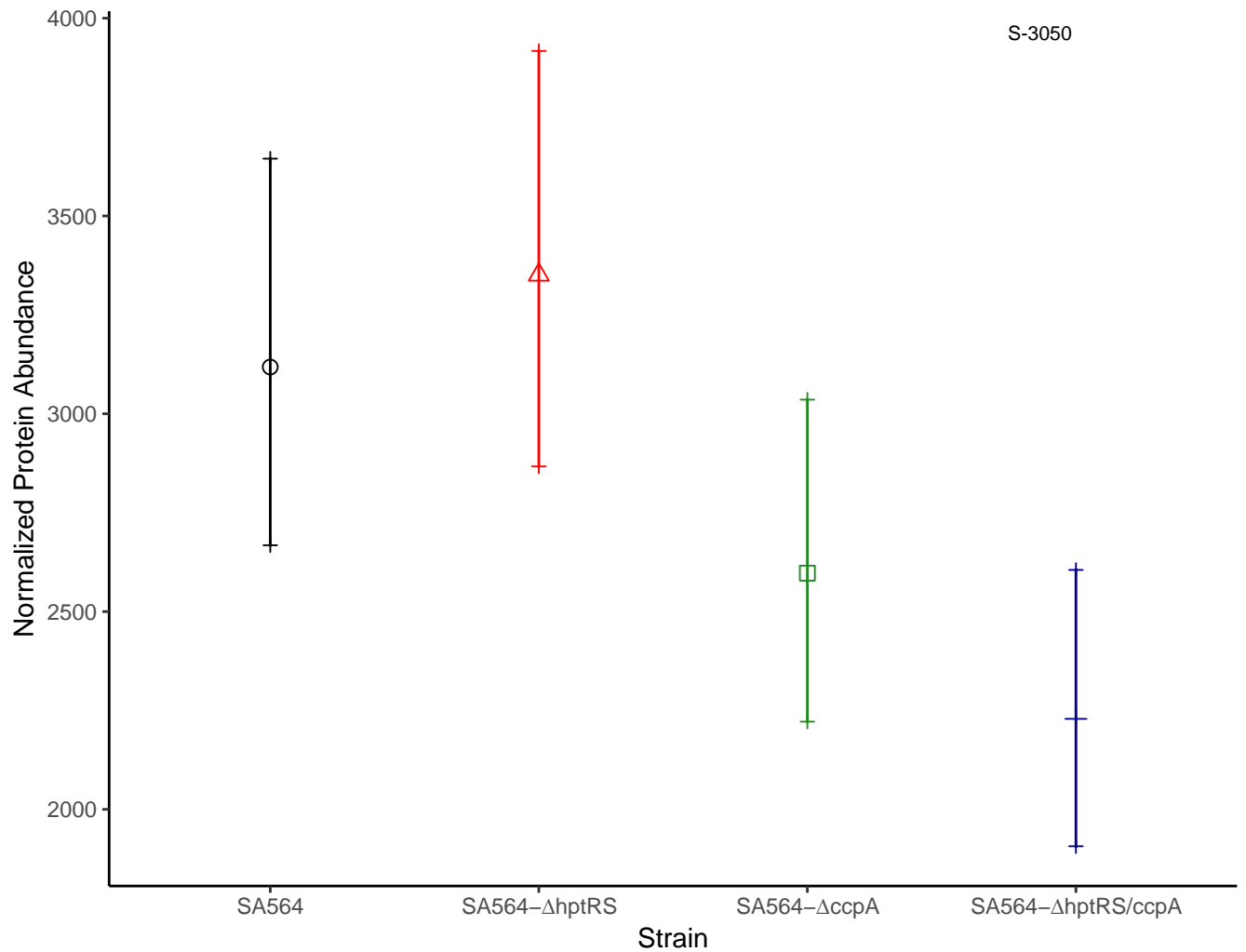


# ATPG\_STAAM



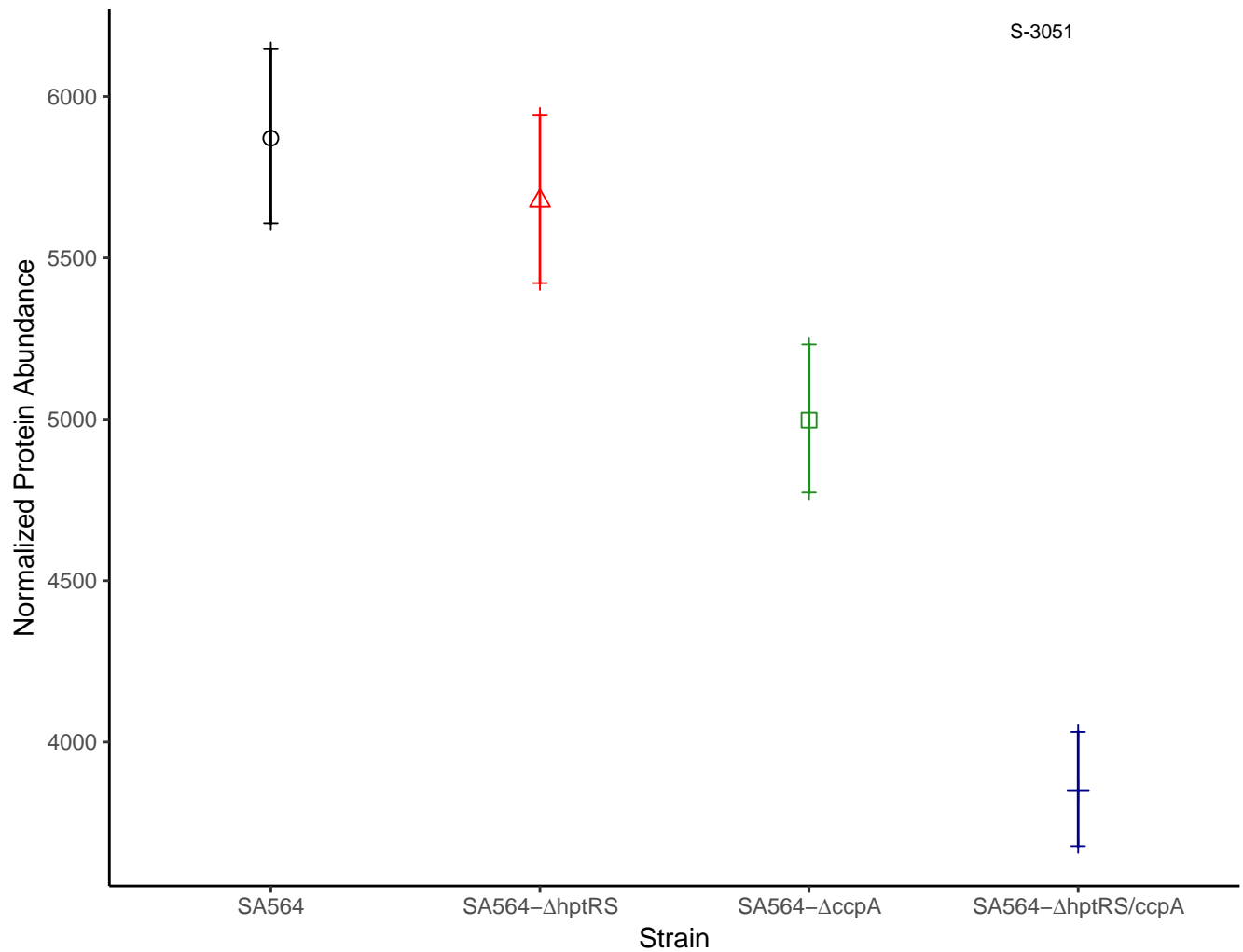
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# AZO1\_STAAM



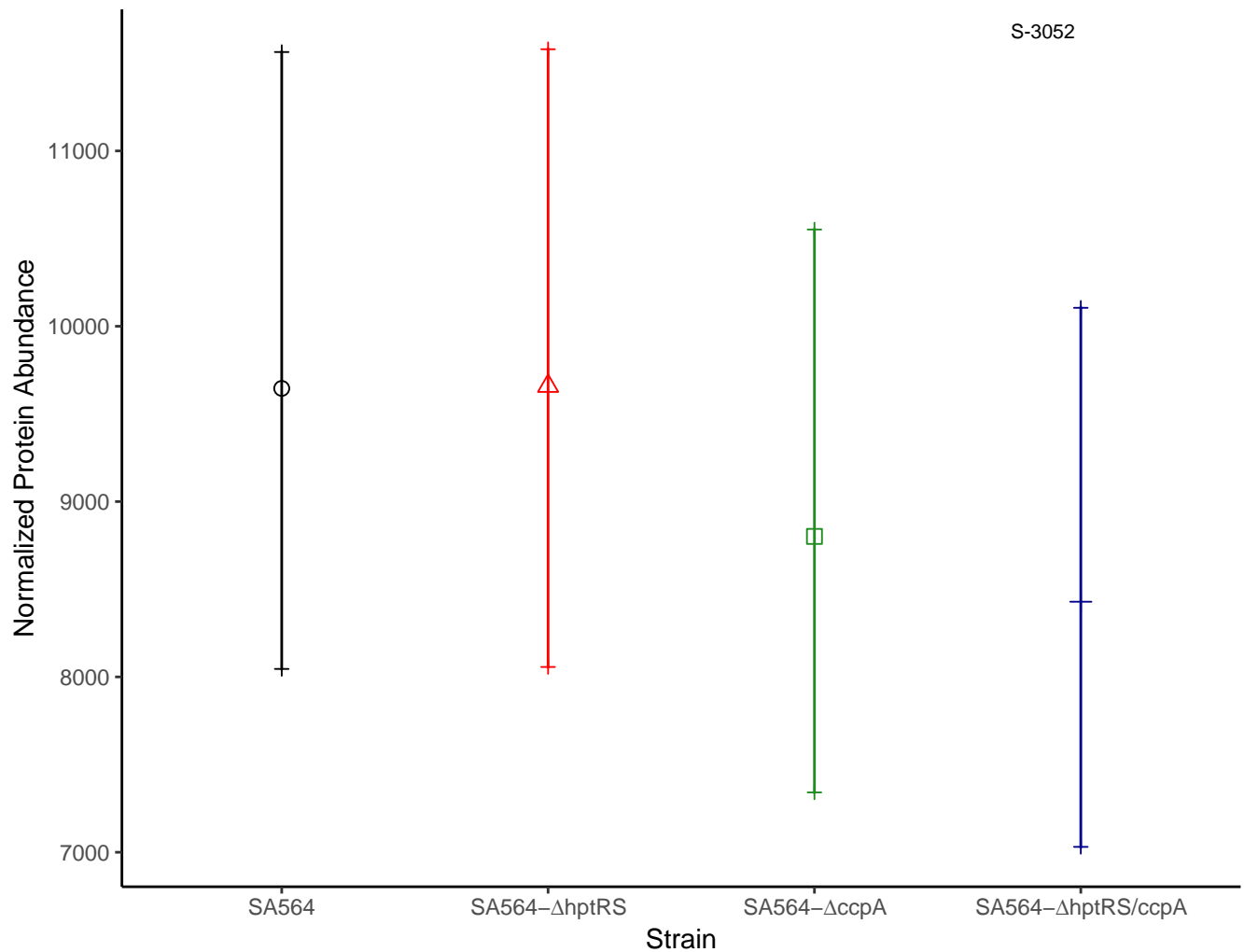
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# AZOR\_STAAM



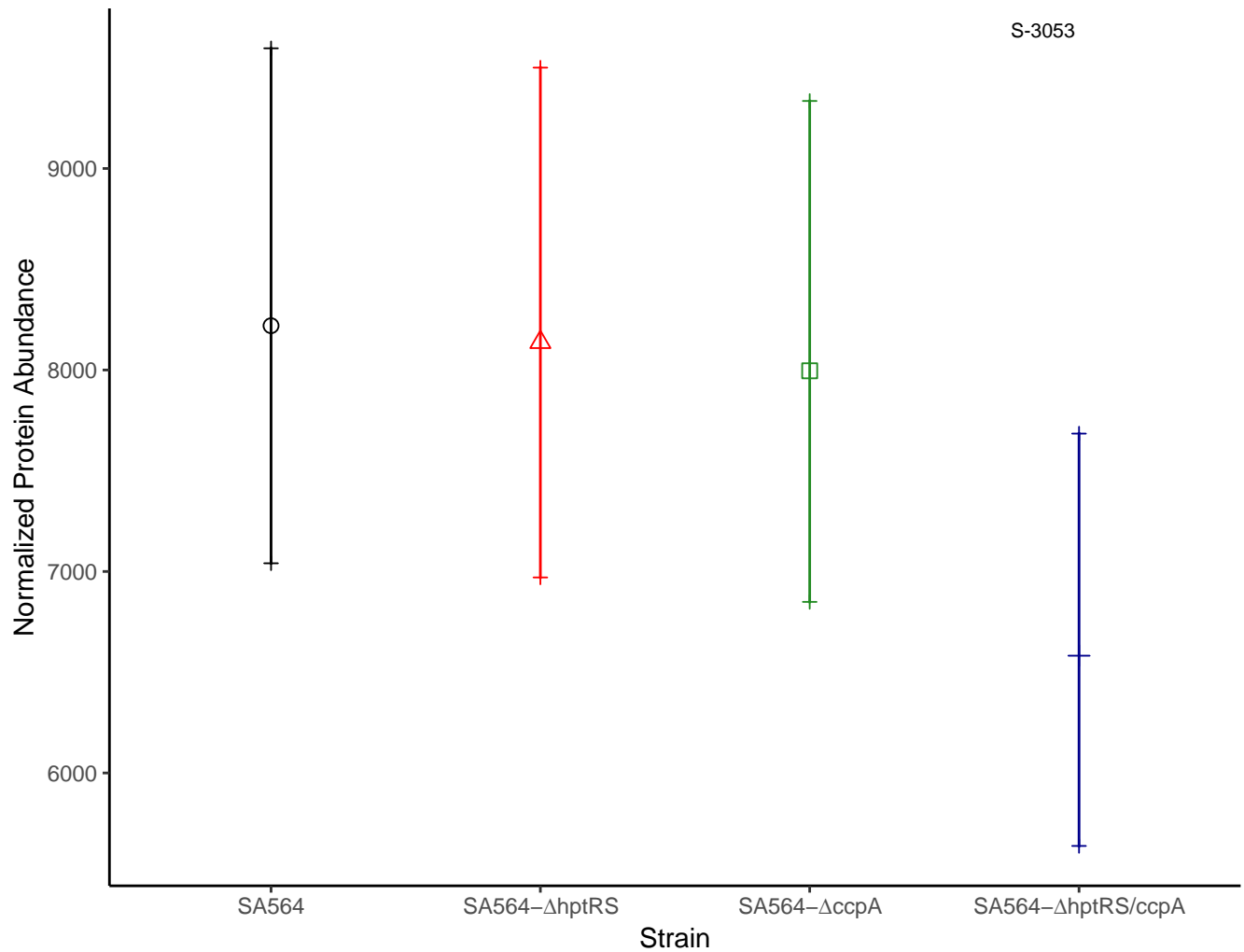
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# BSAA\_STAAM



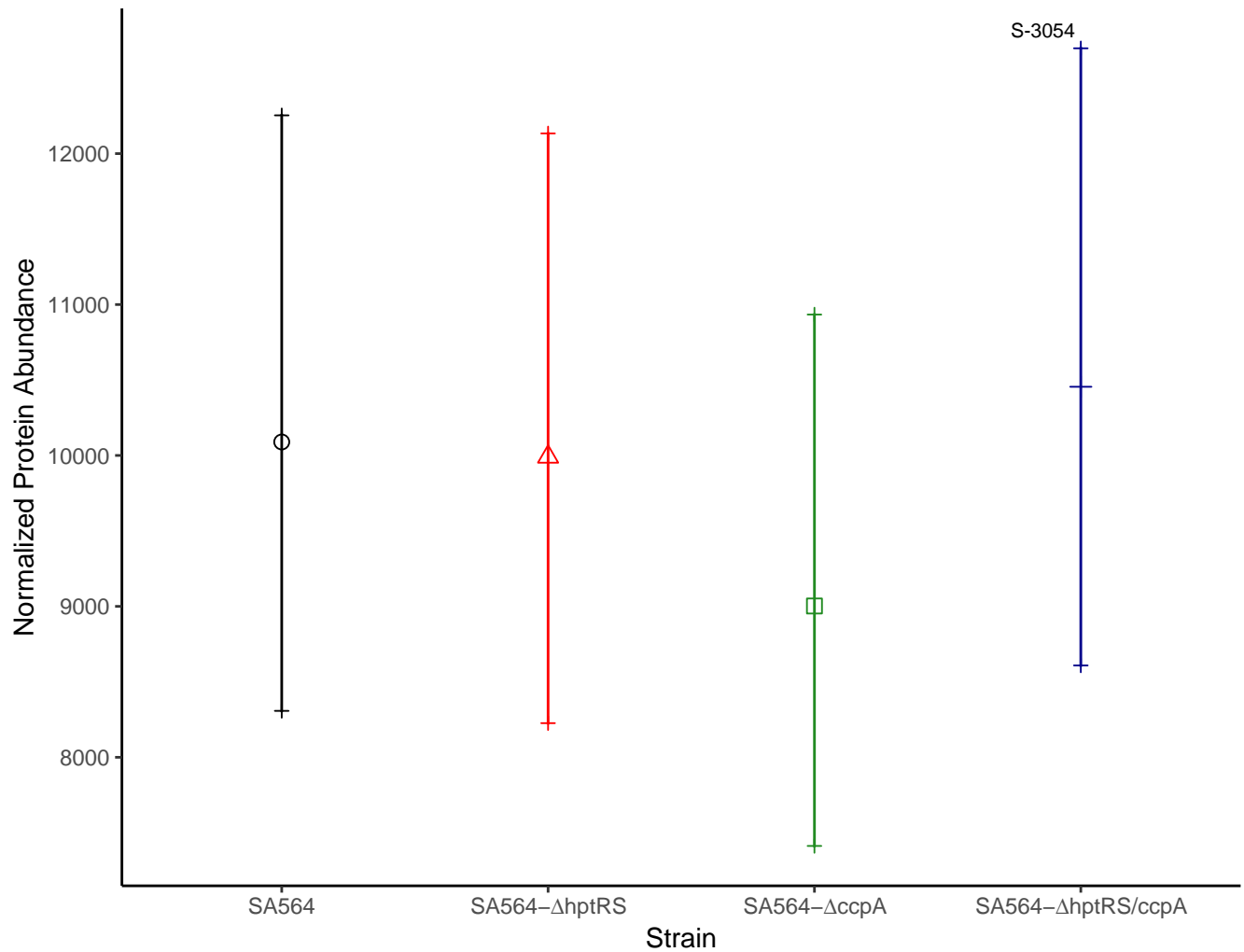
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# BUTA\_STAAM



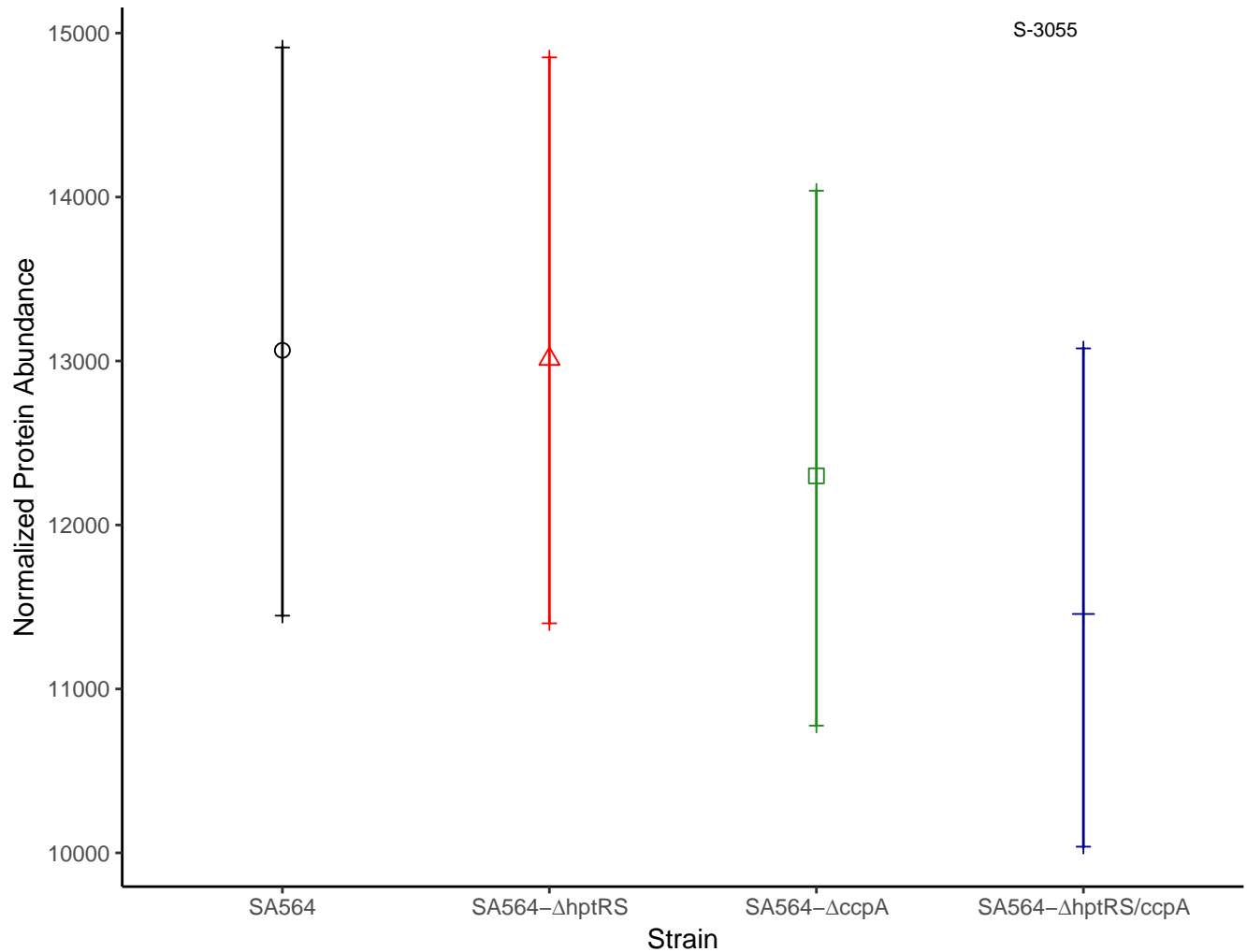
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CARA\_STAAM



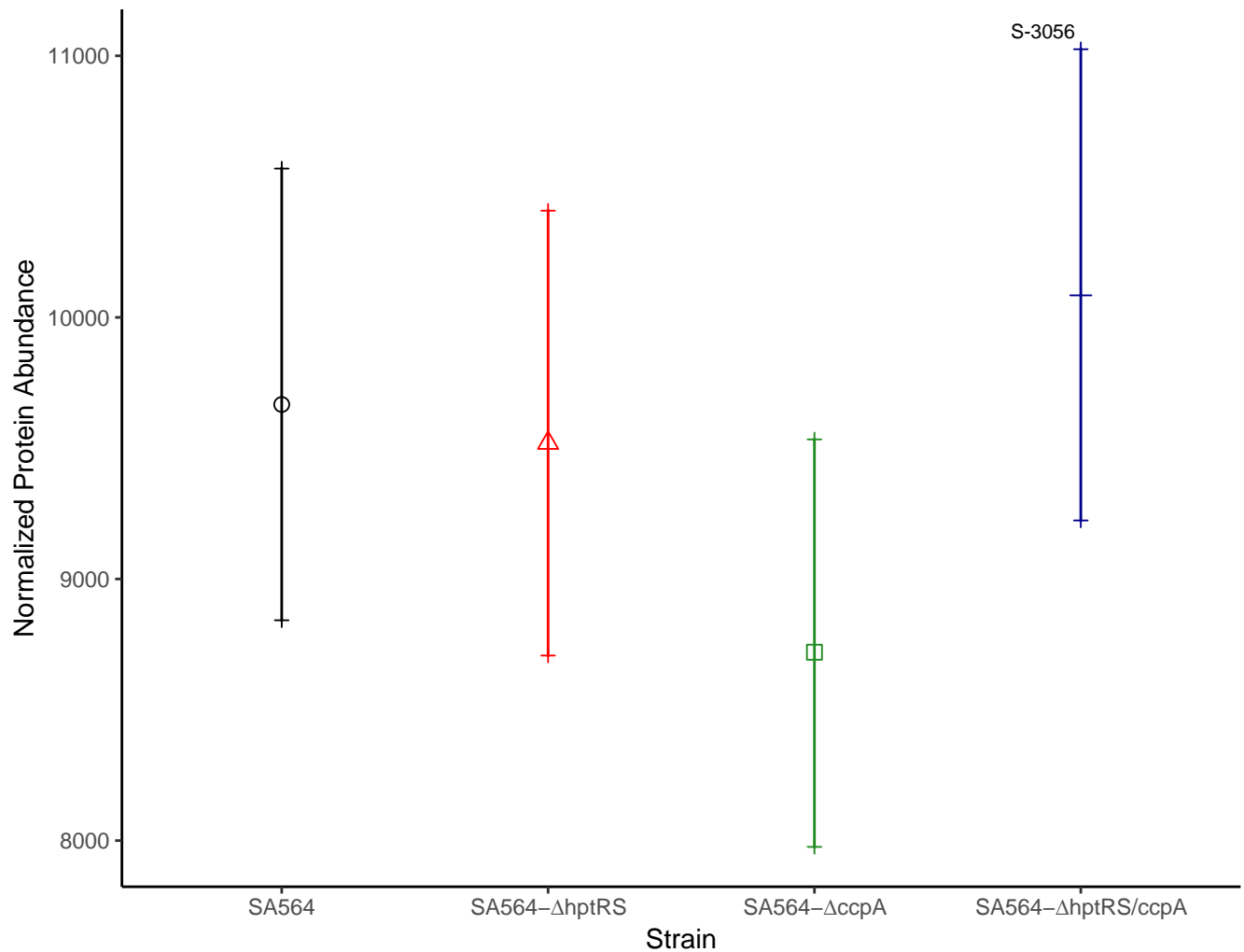
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CARB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

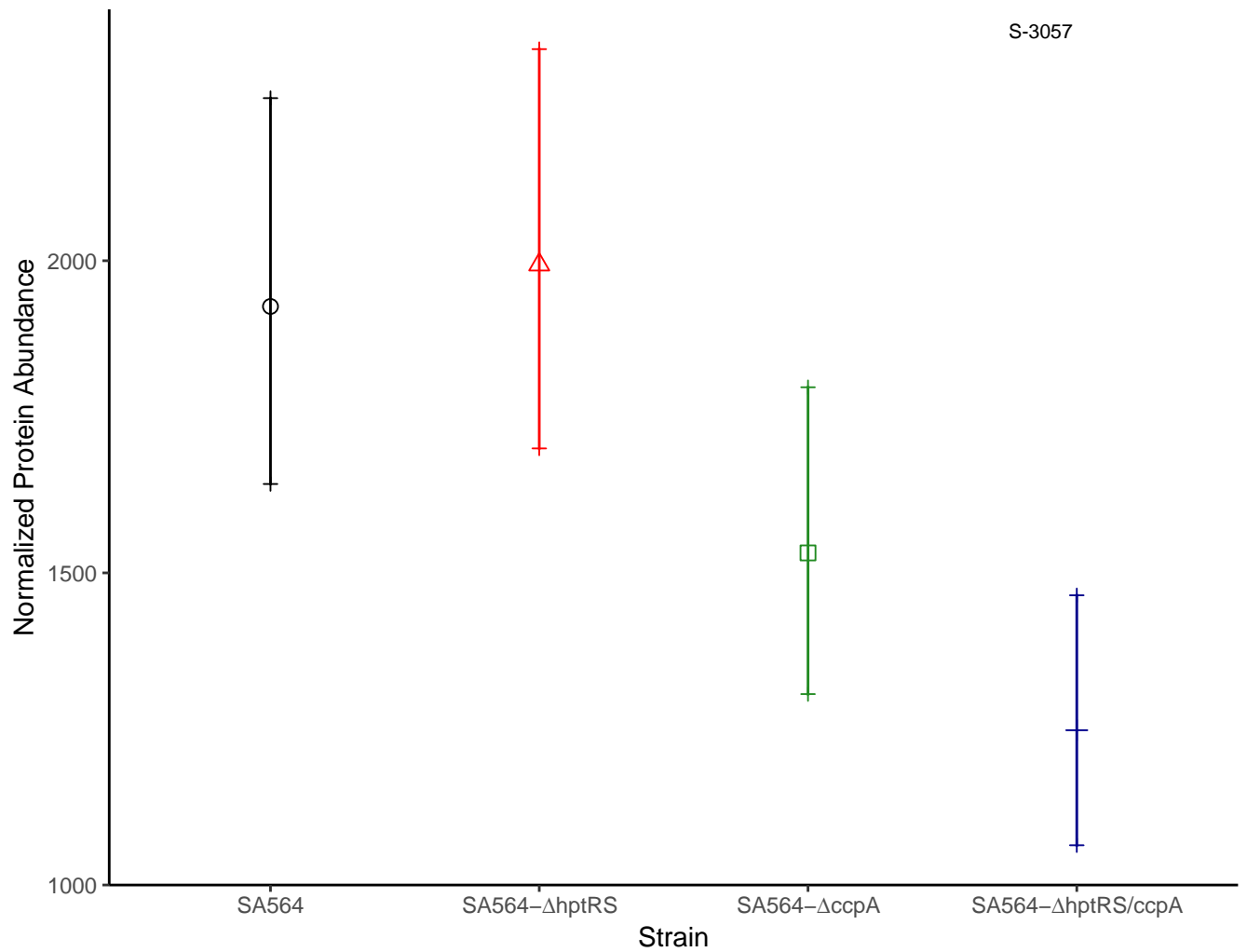
# CATA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

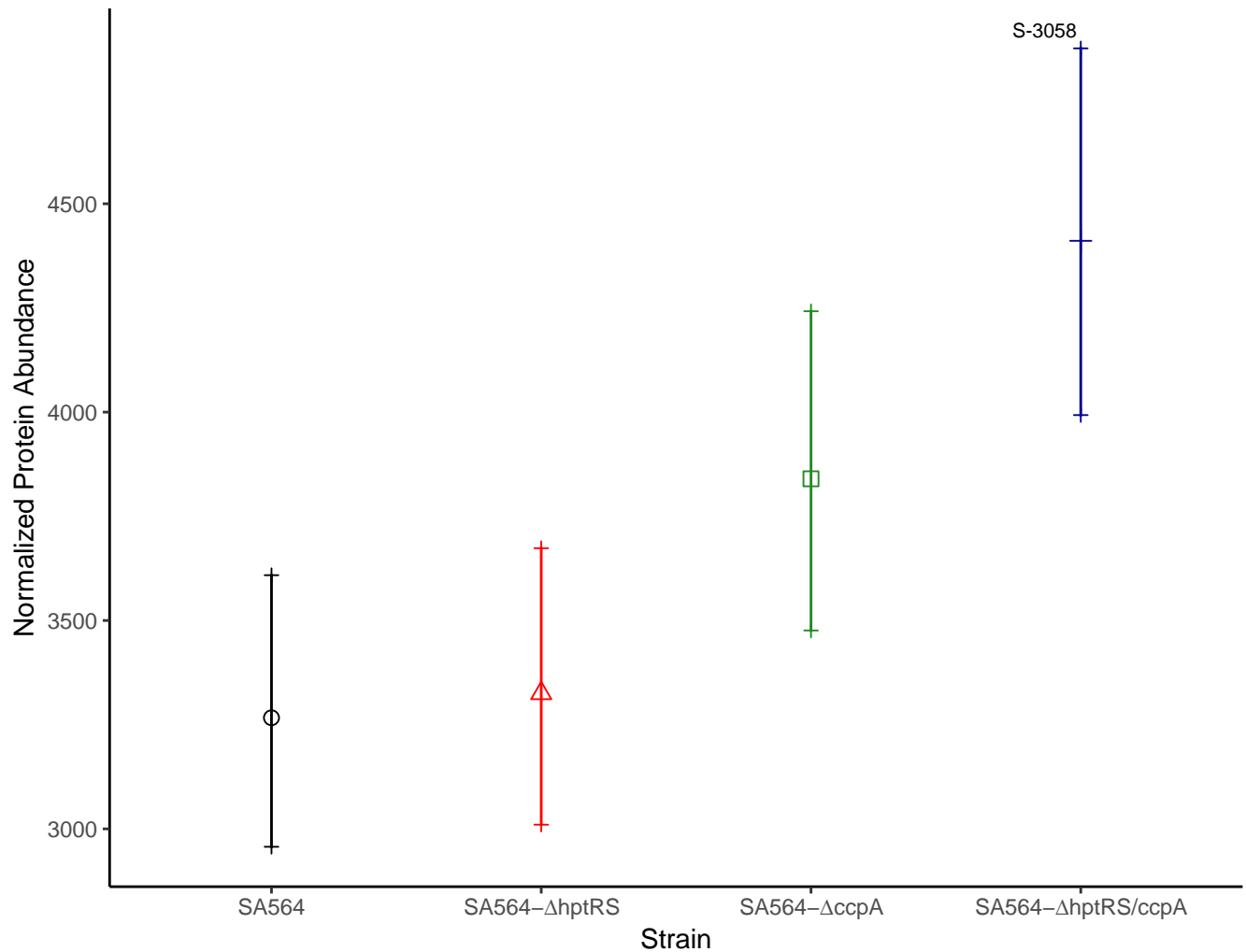


# CCPA\_STAAM



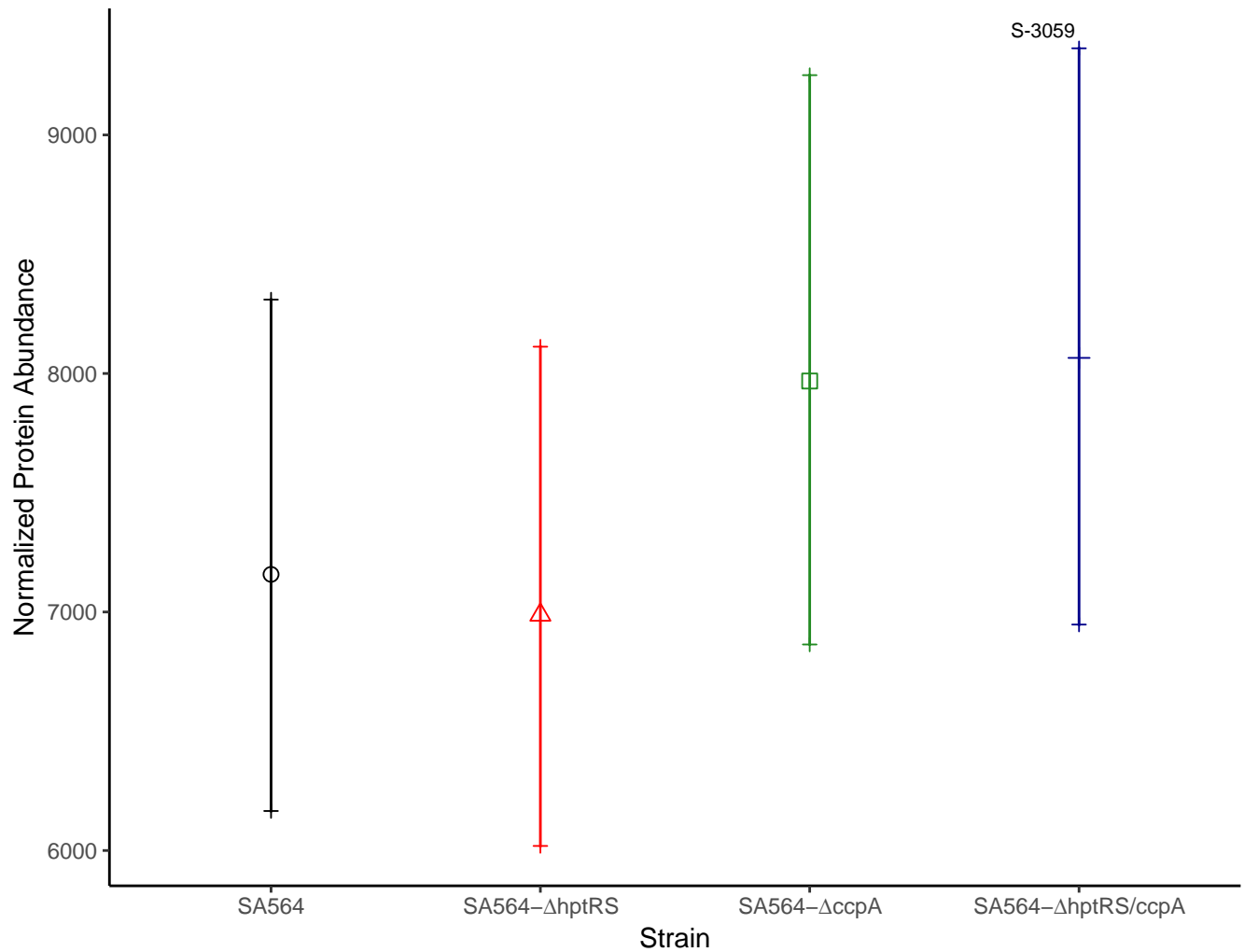
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CDR\_STAAM



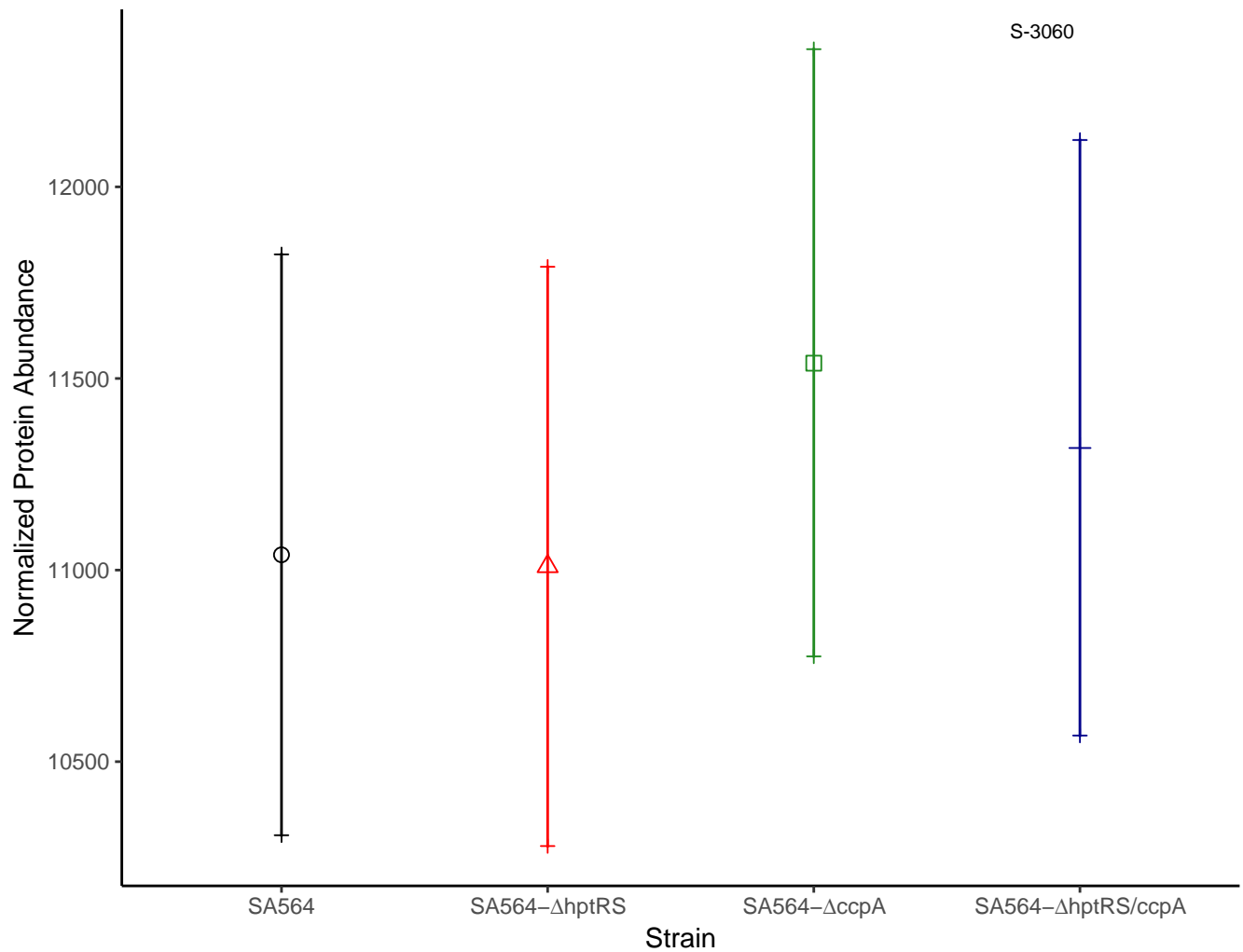
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CH10\_STAAM



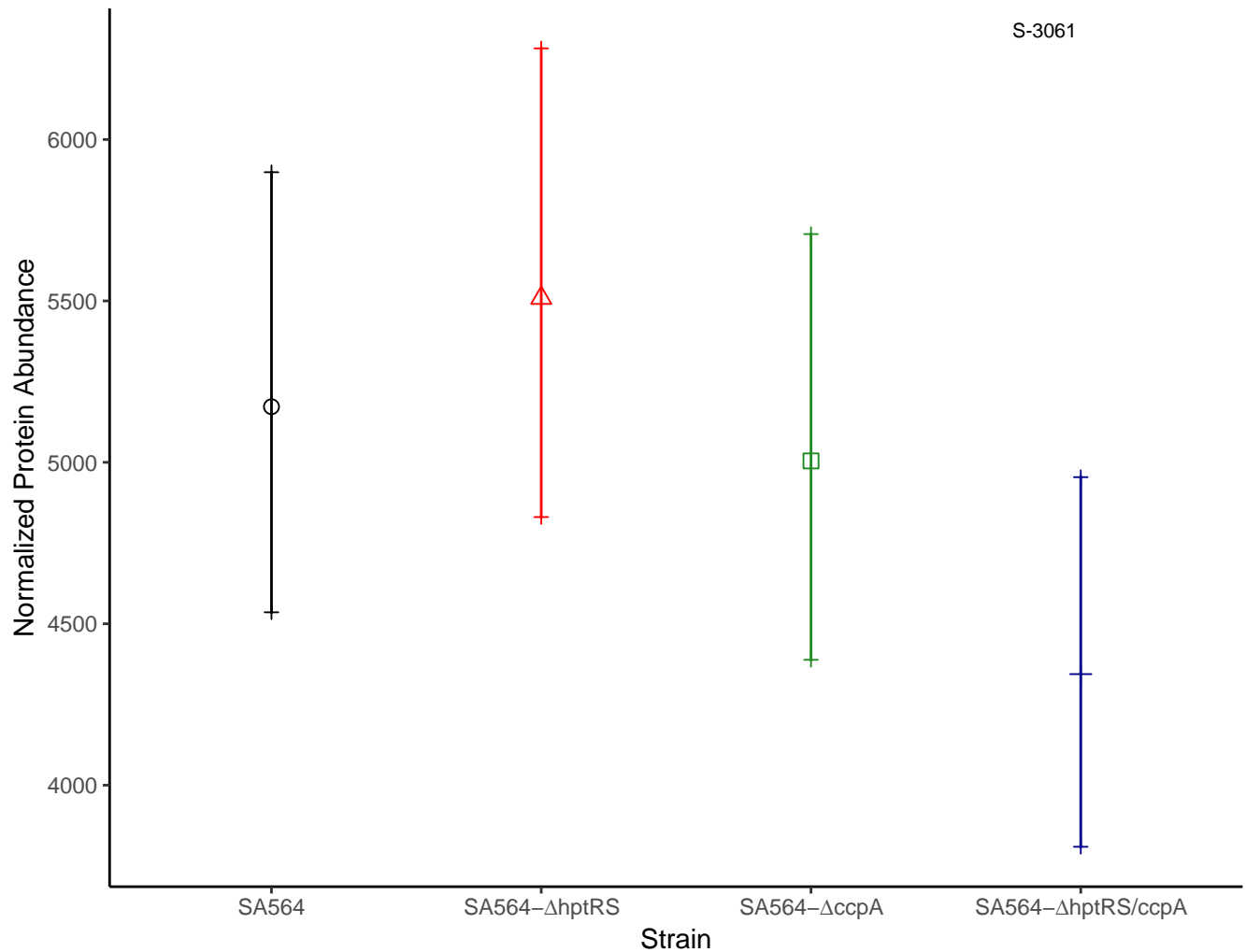
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CH60\_STAAM



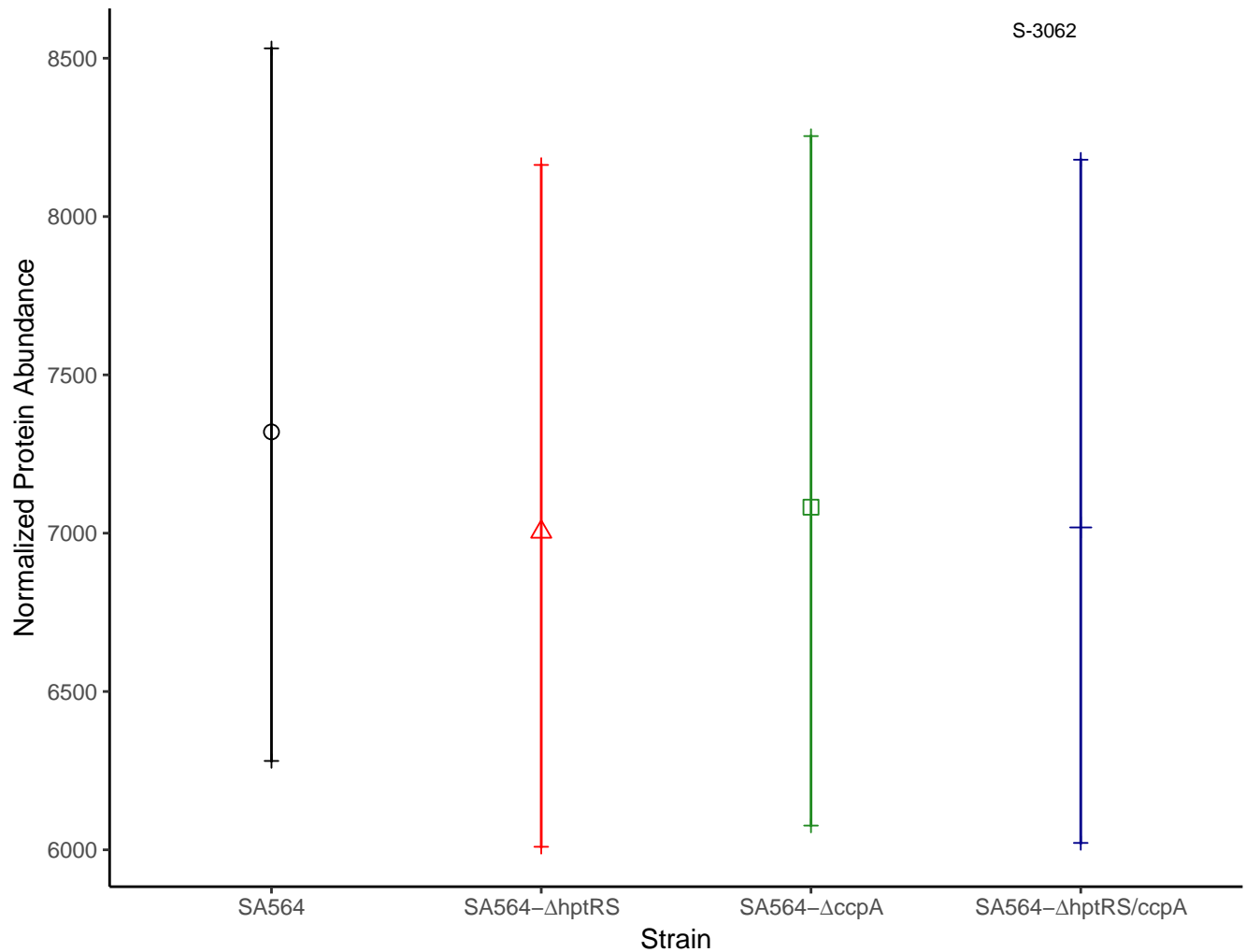
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# CLPB\_STAAM



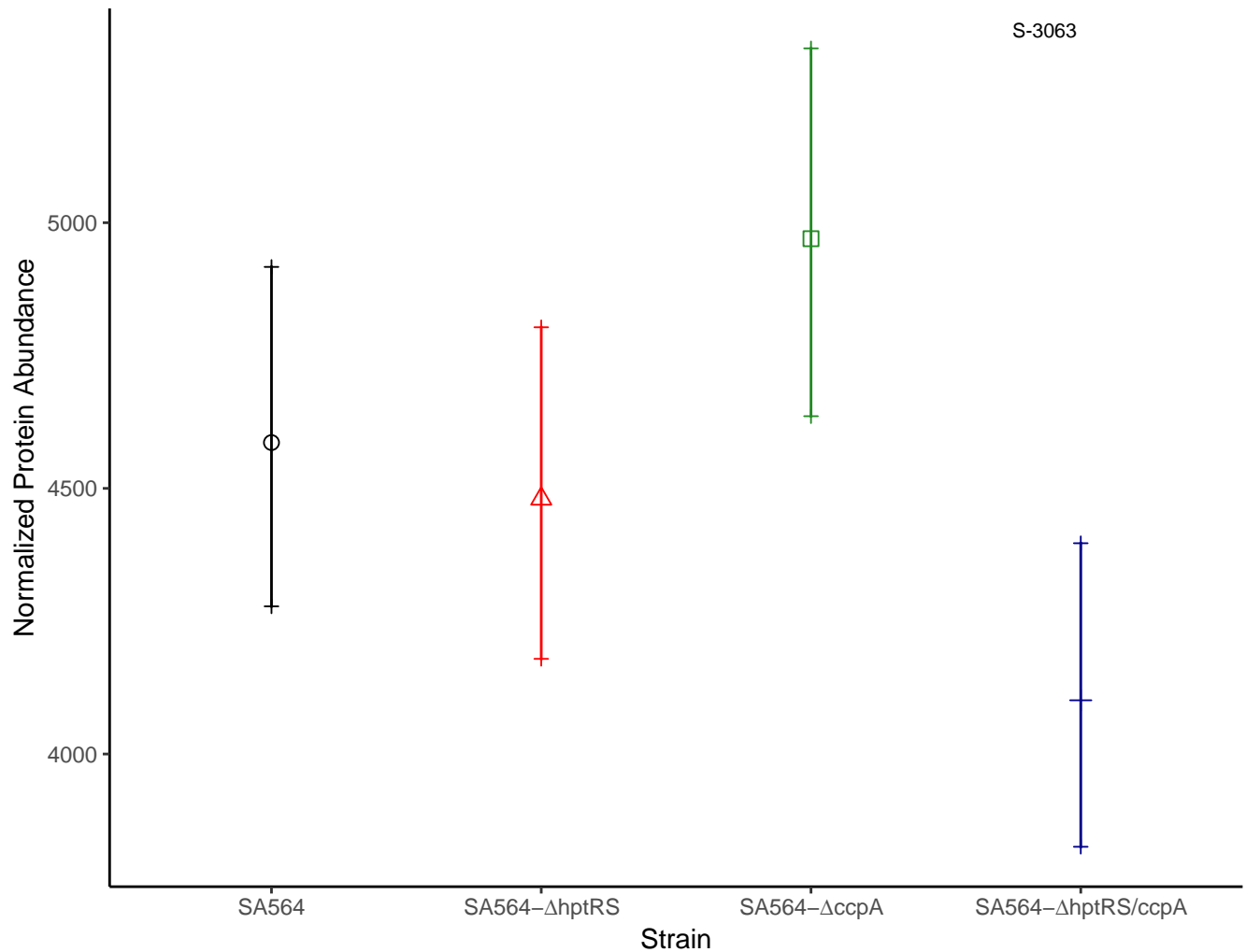
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CLPC\_STAAM



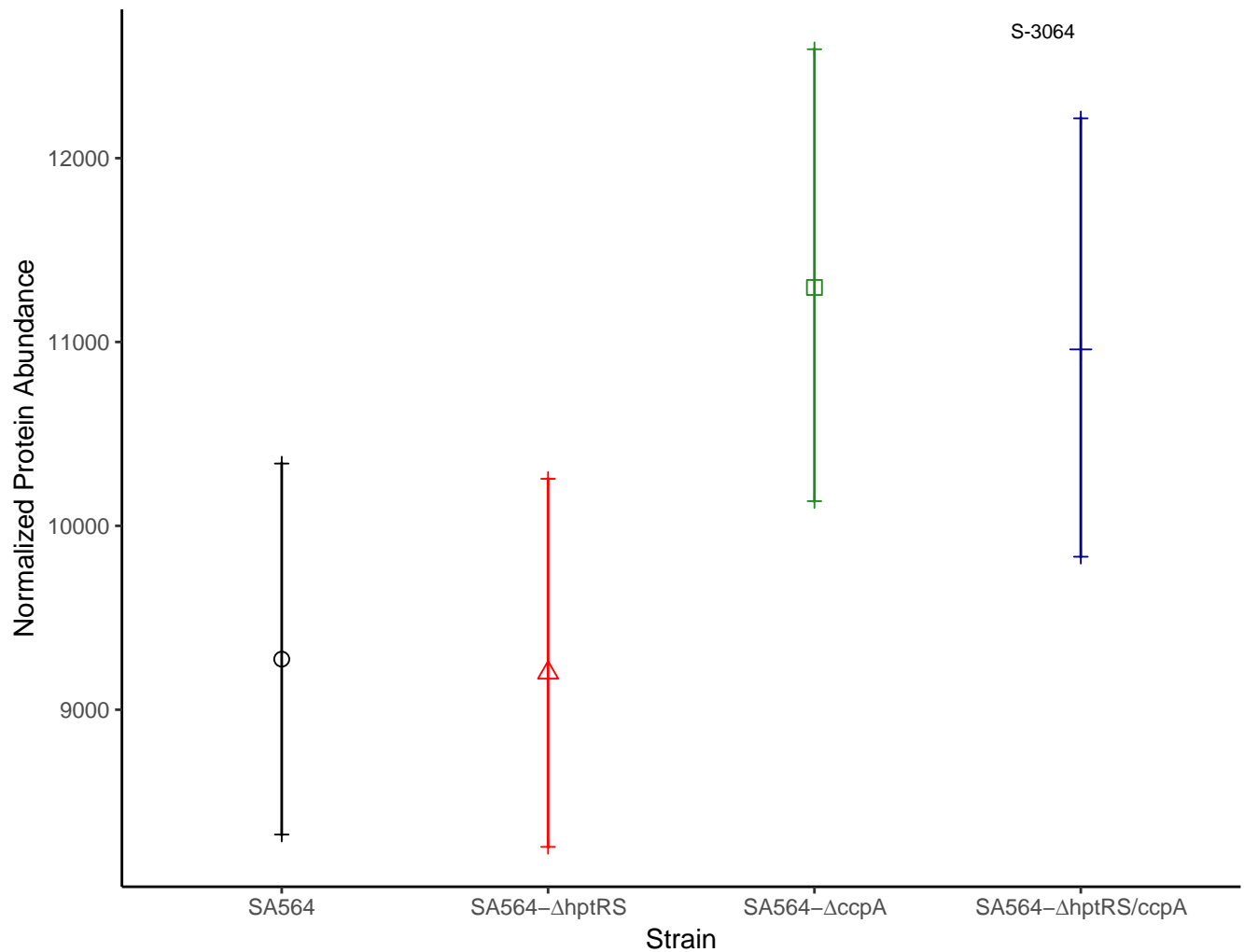
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CLPL\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

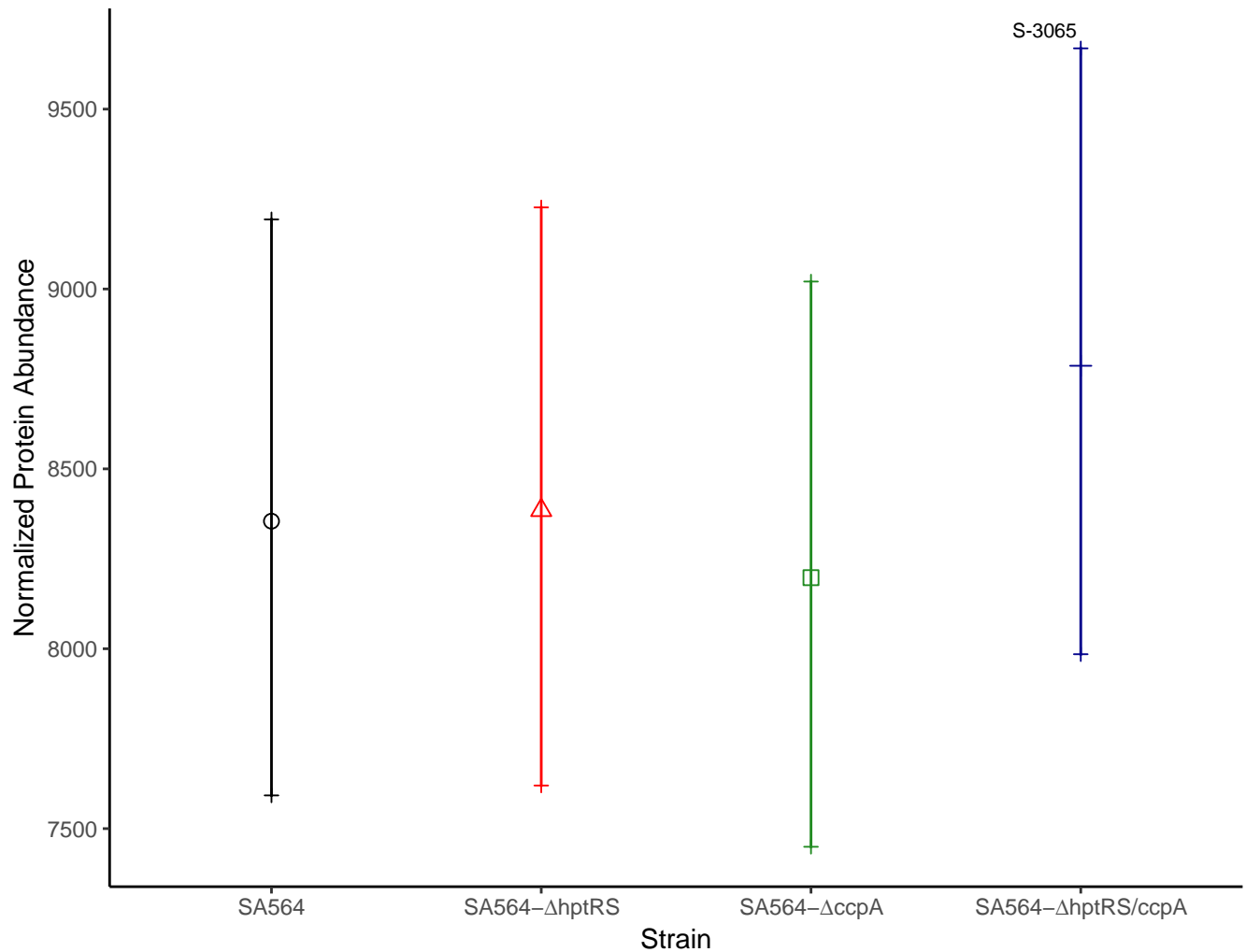
# CLPP\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

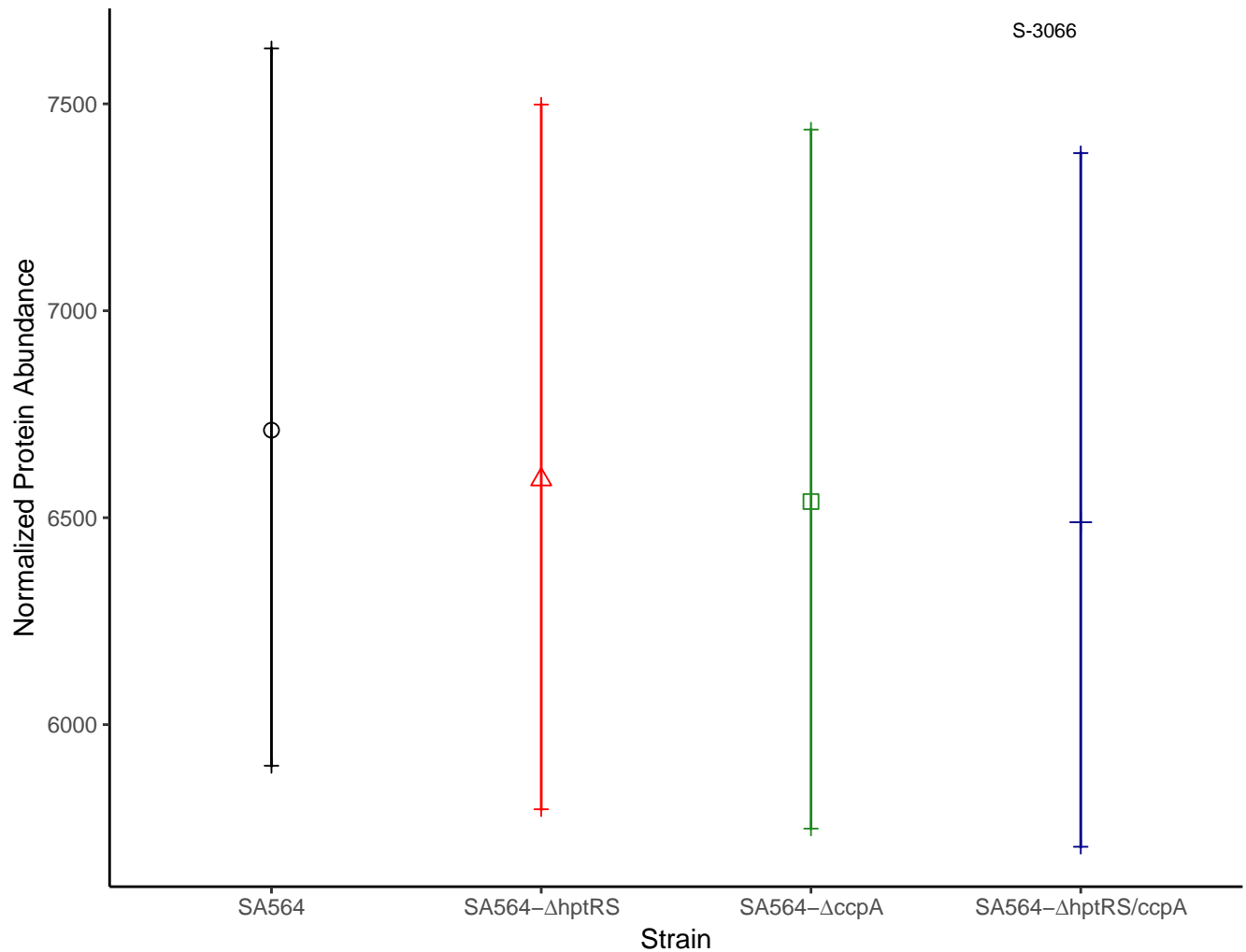


# CLPX\_STAAM



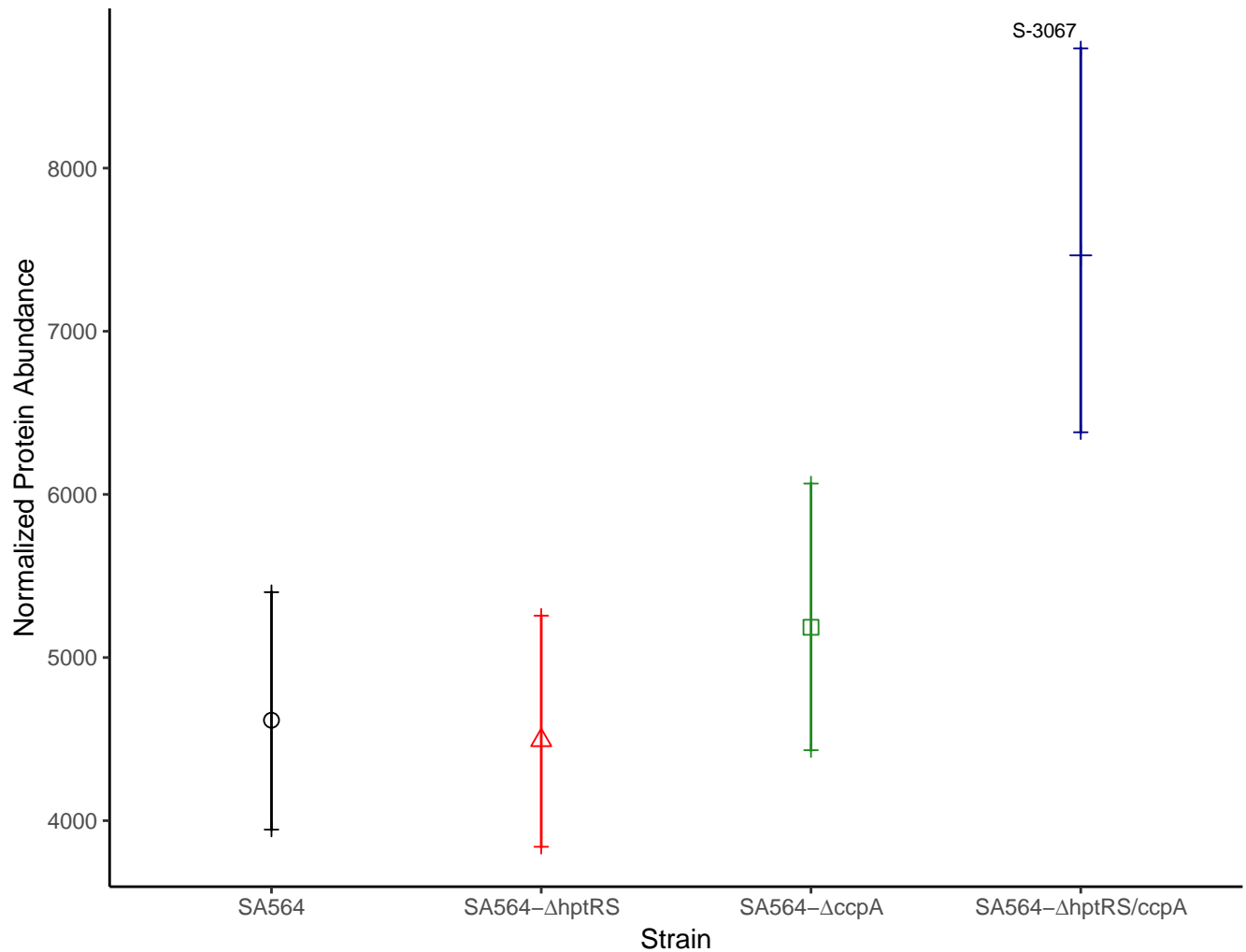
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CODY\_STAAM



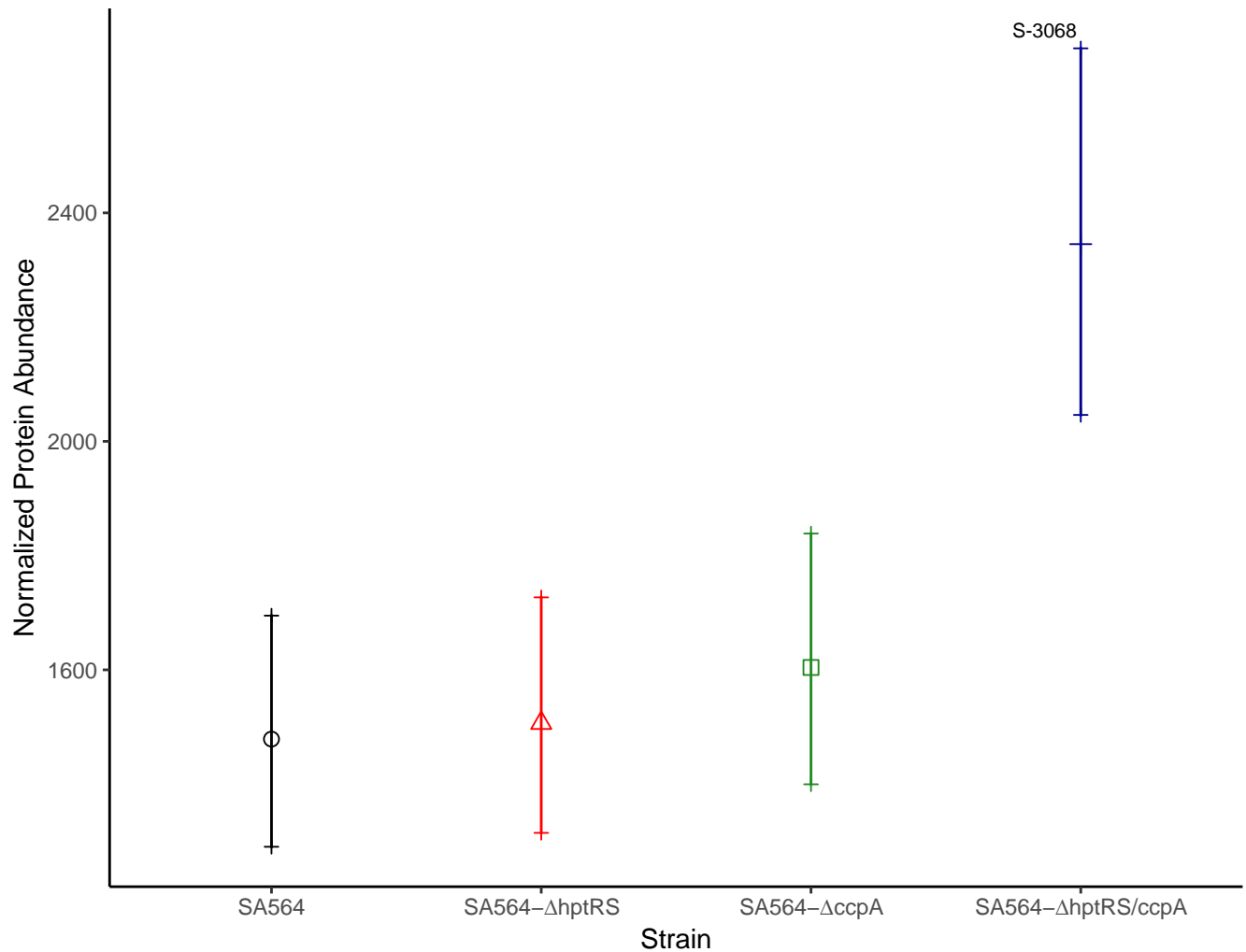
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# COPZ\_STAAM



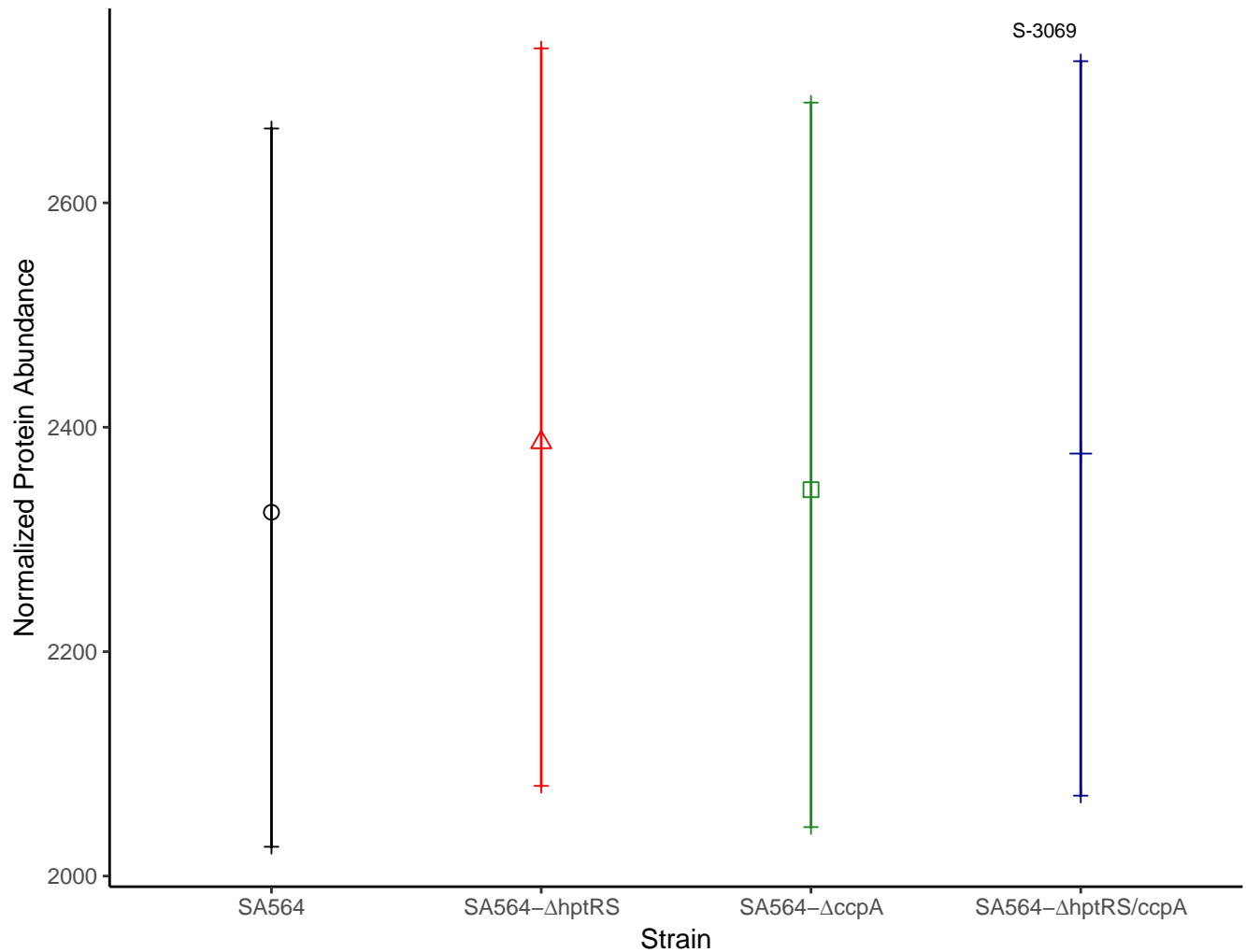
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CRTN\_STAAM



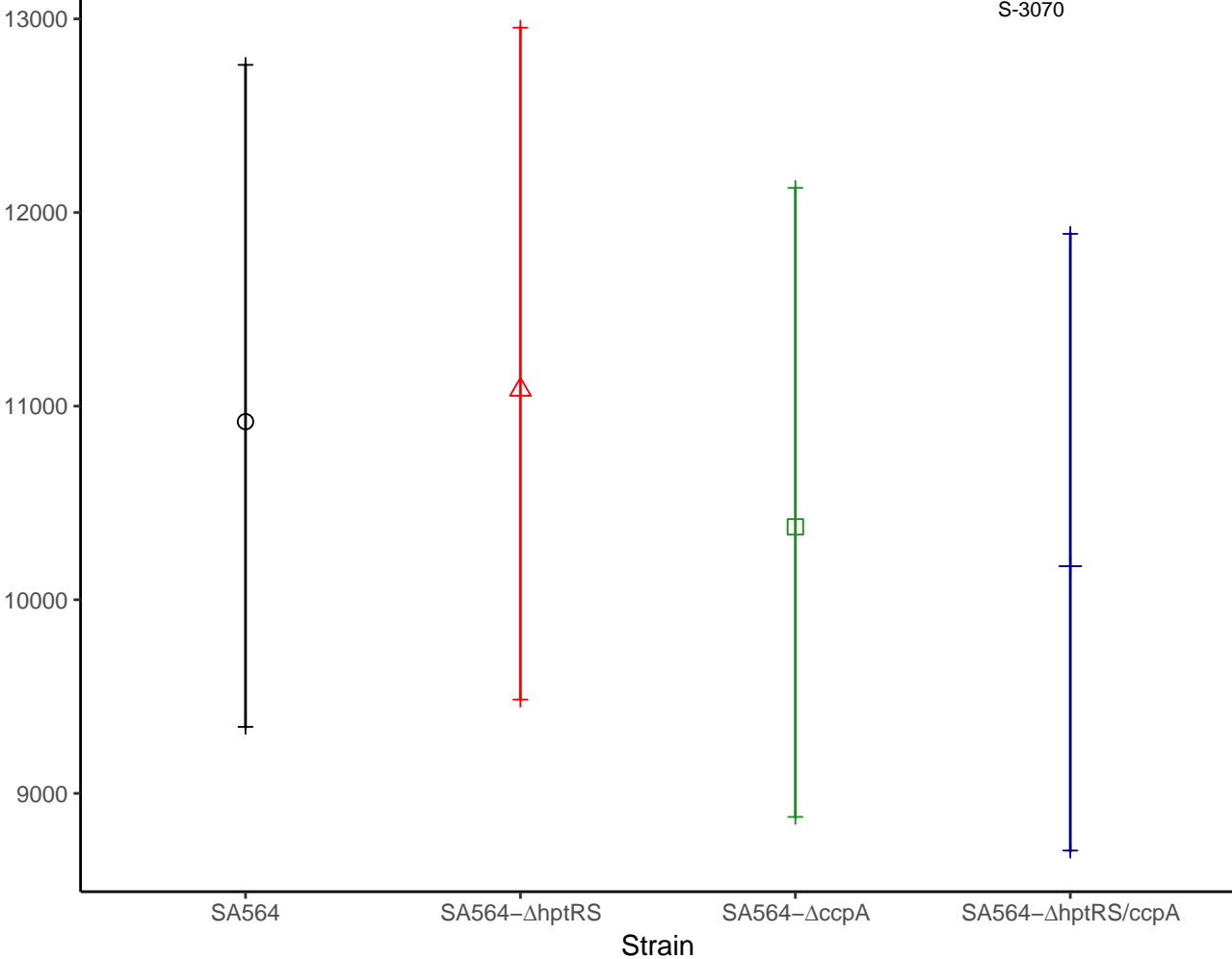
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CSD\_STAAM



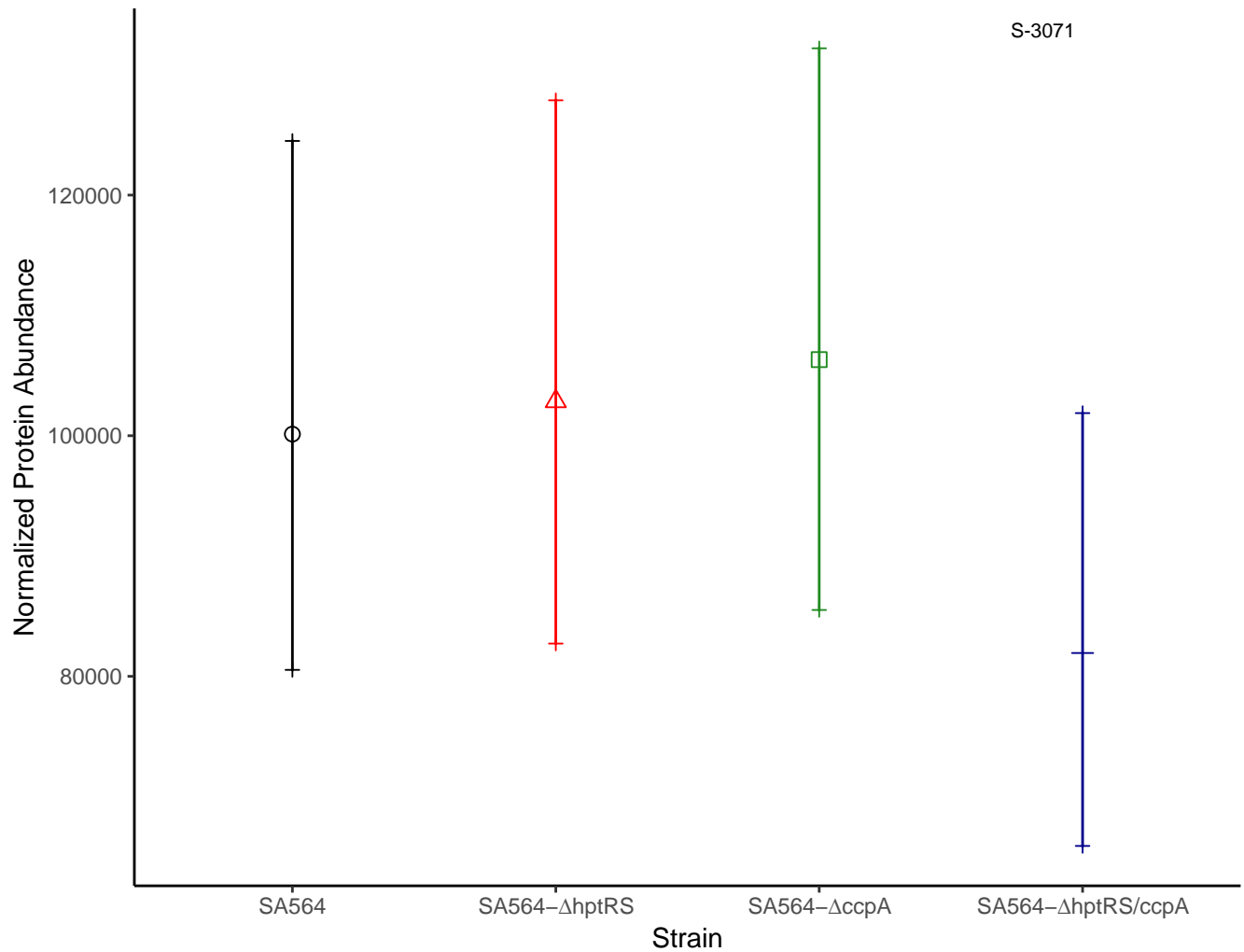
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CSHA\_STAAM



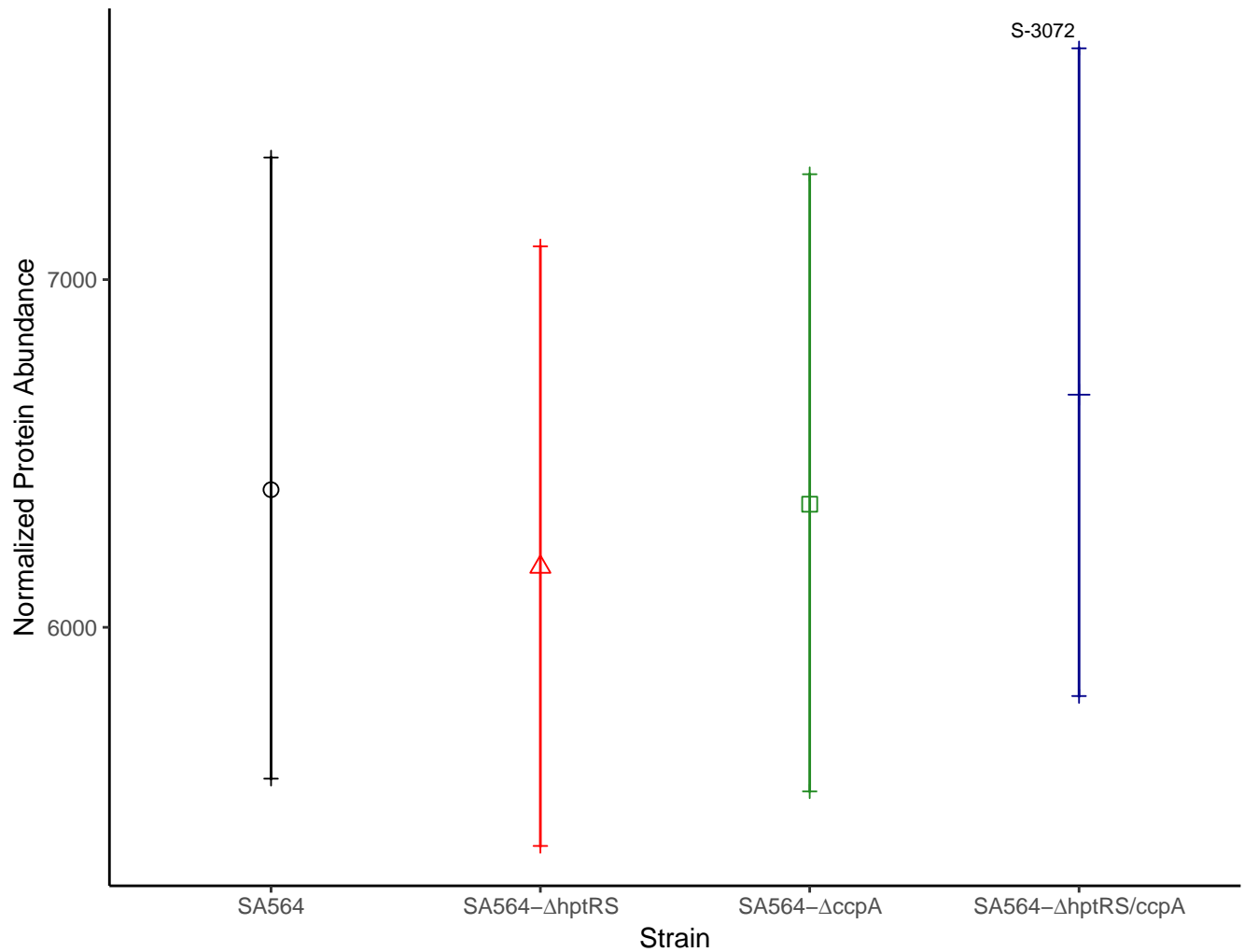
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CSPA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

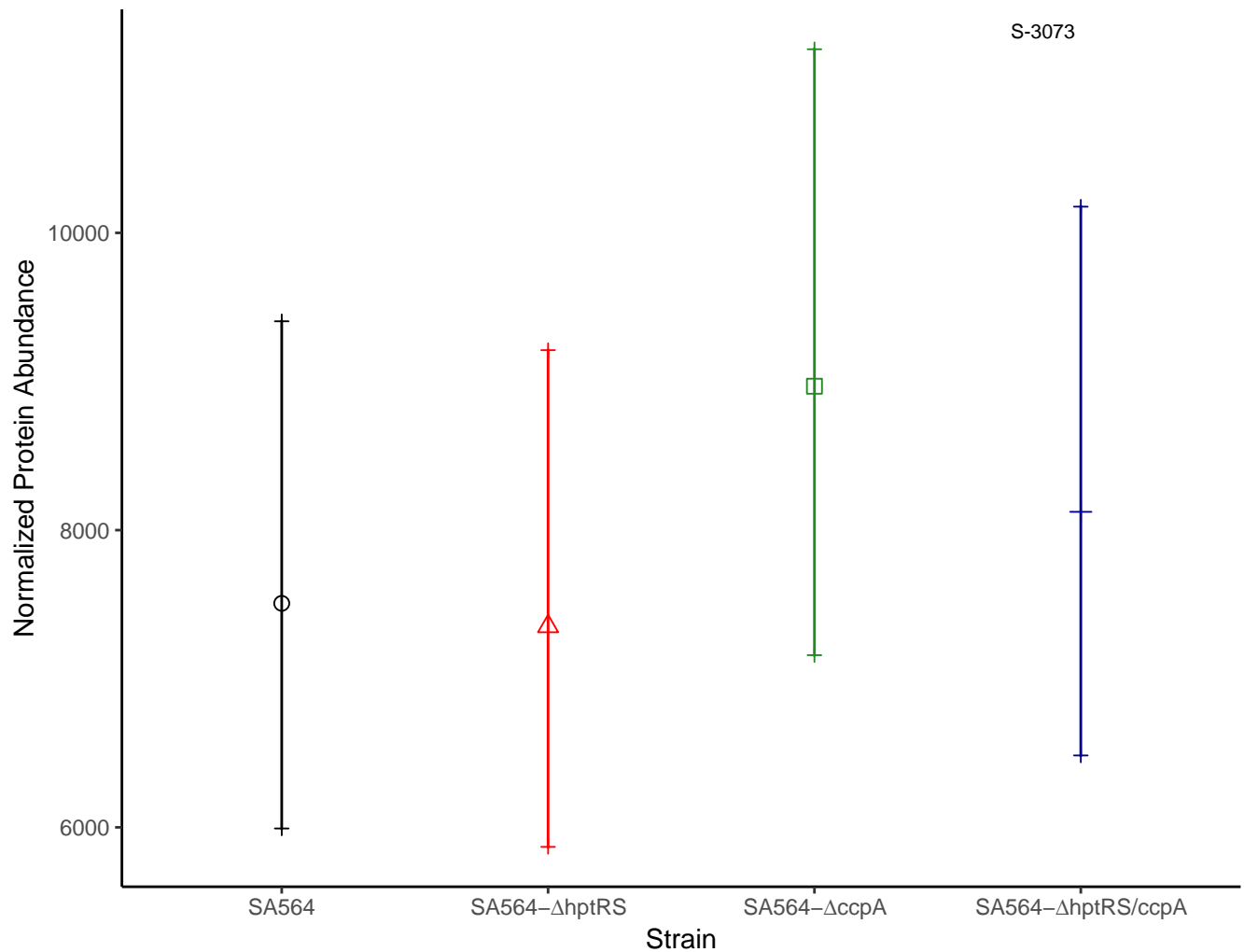
# CTPAL\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

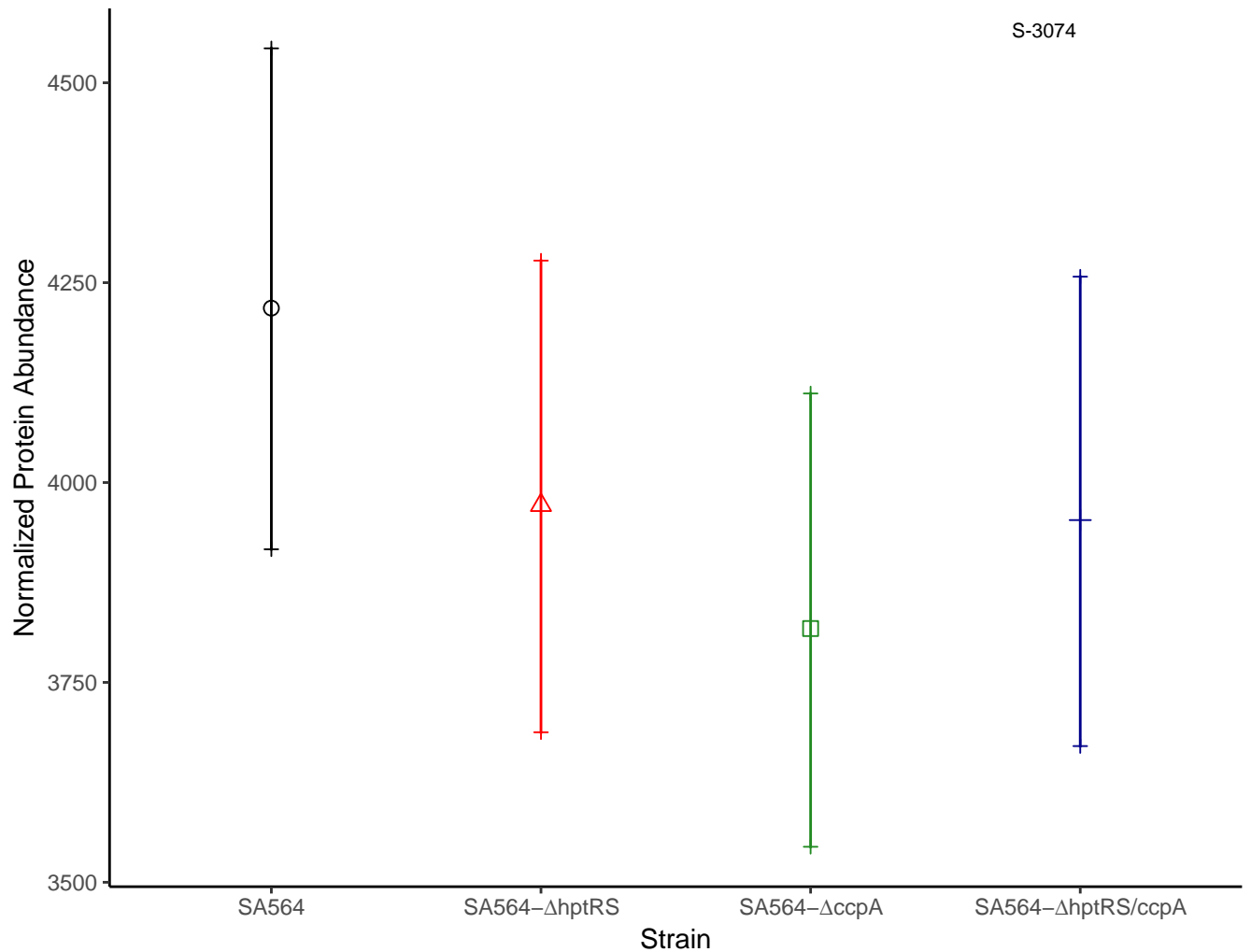


# CVFB\_STAAM



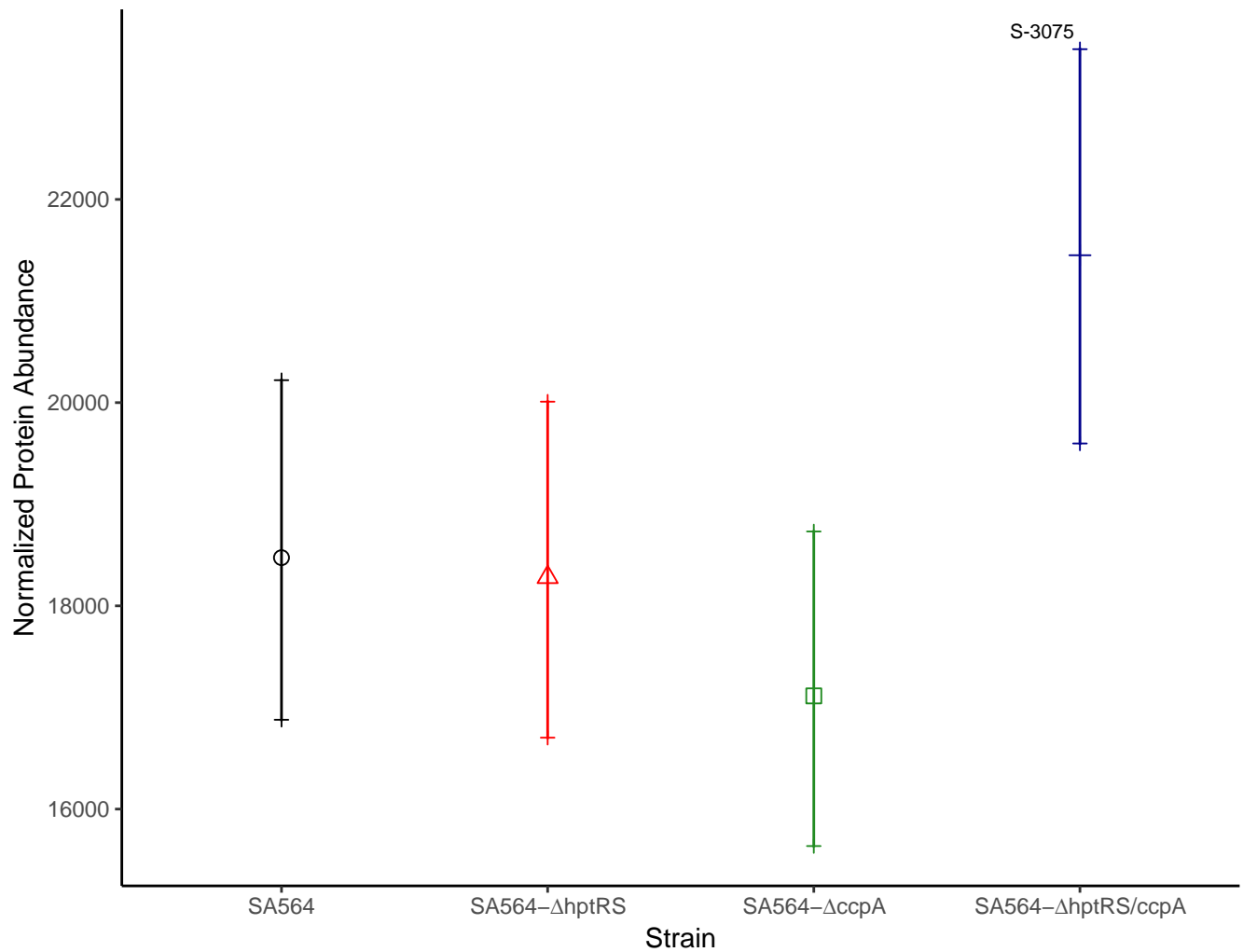
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CYSE\_STAAM



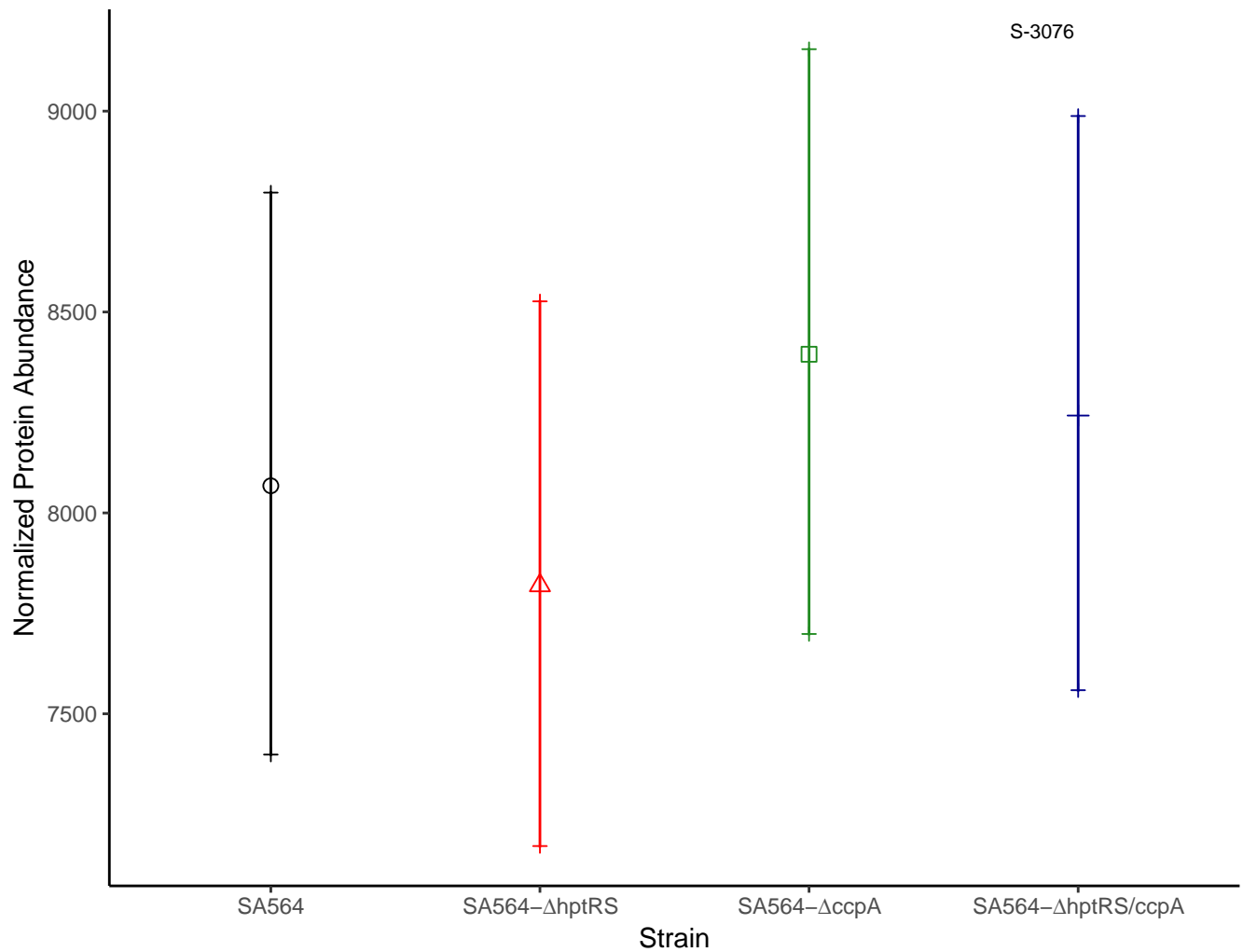
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# CYSK\_STAAM



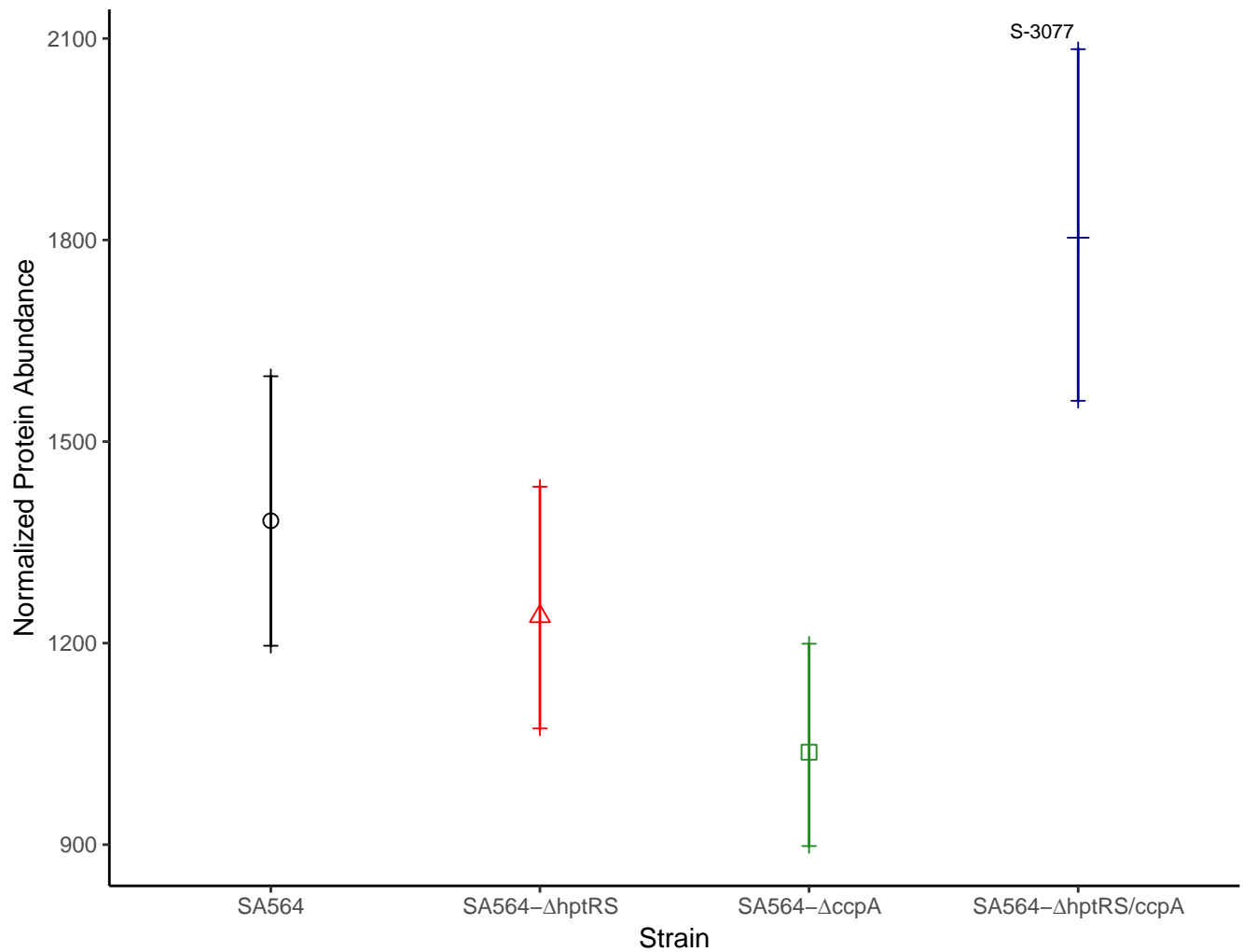
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DAAA\_STAAM



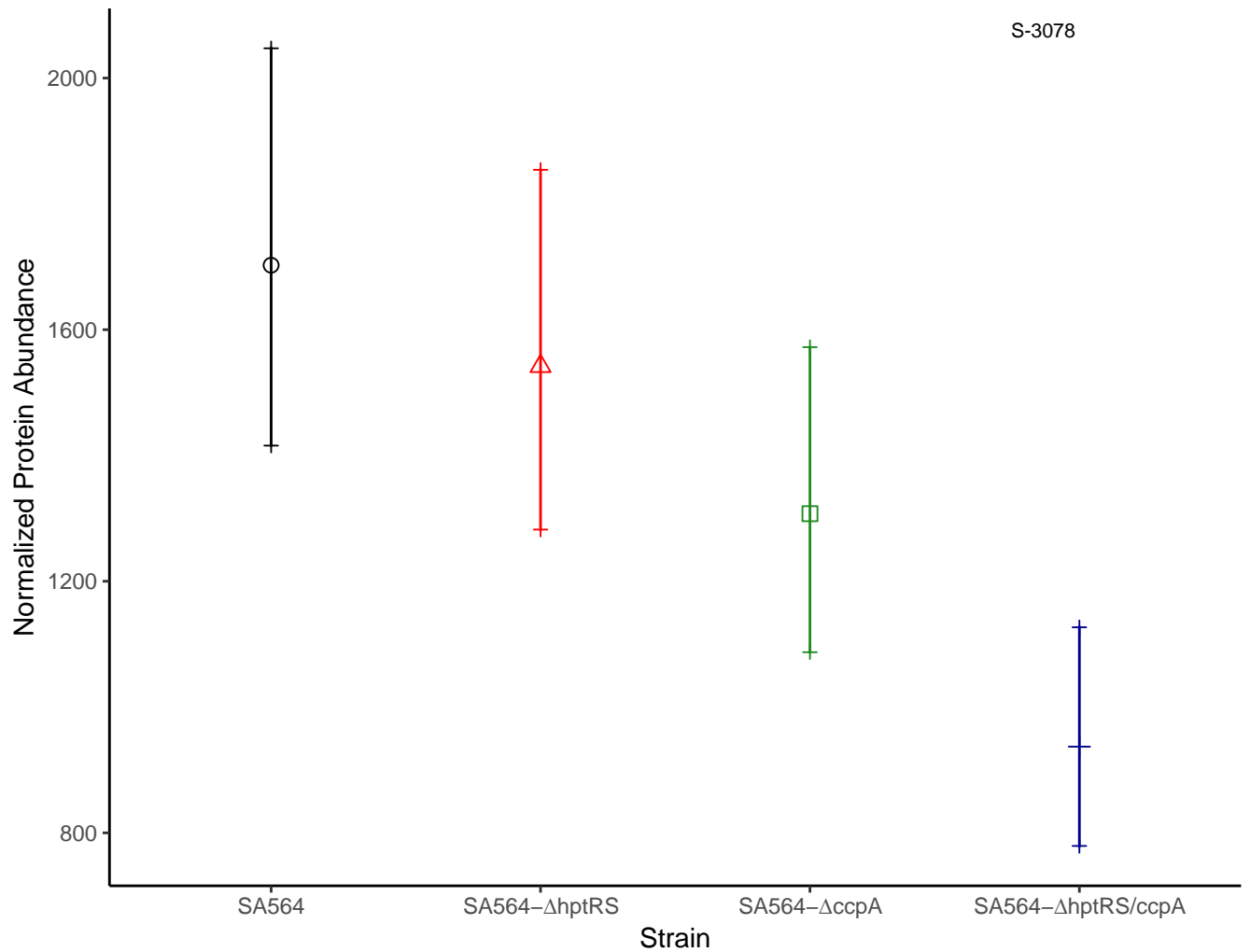
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DAPB\_STAAM



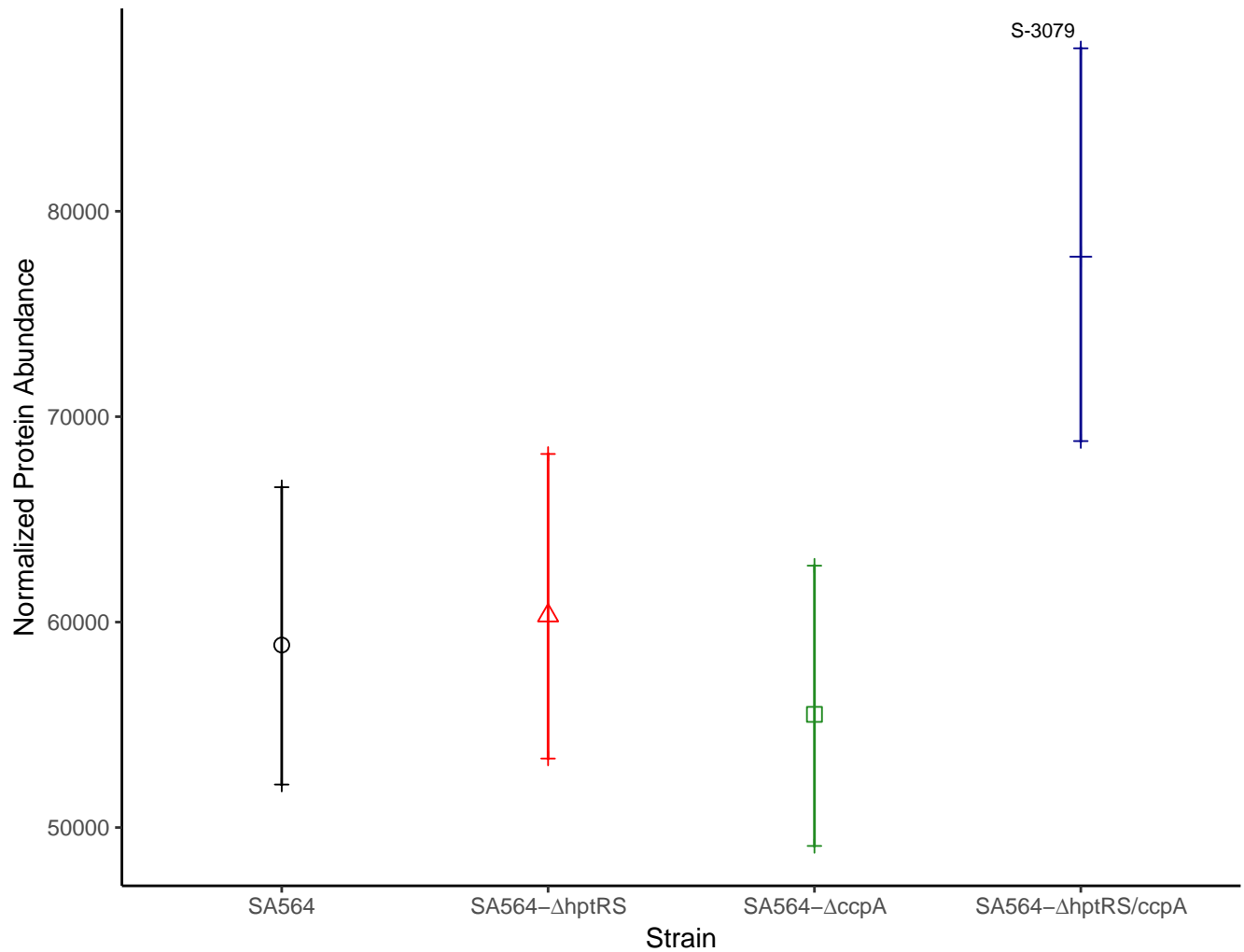
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DAPH\_STAAM



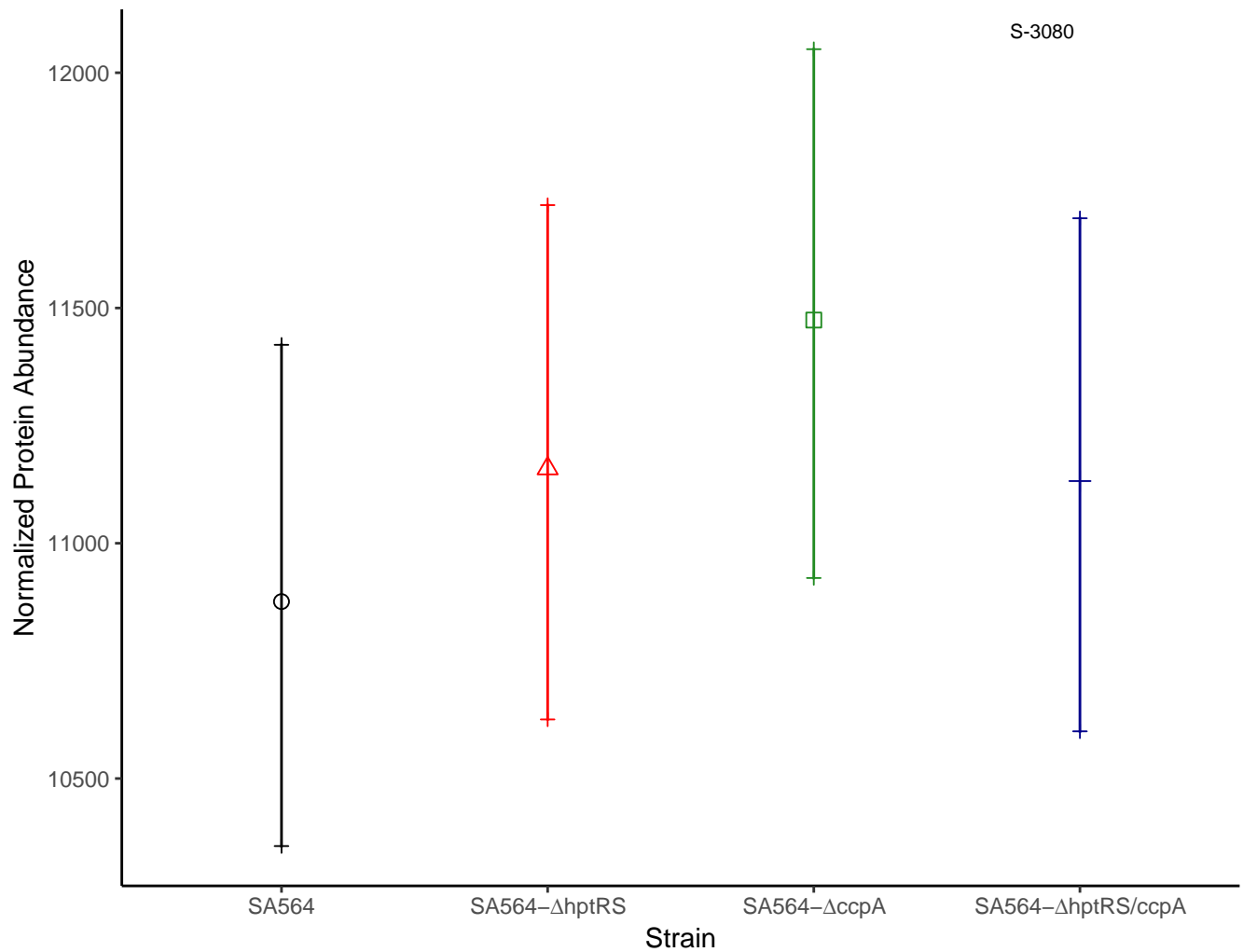
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DBH\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

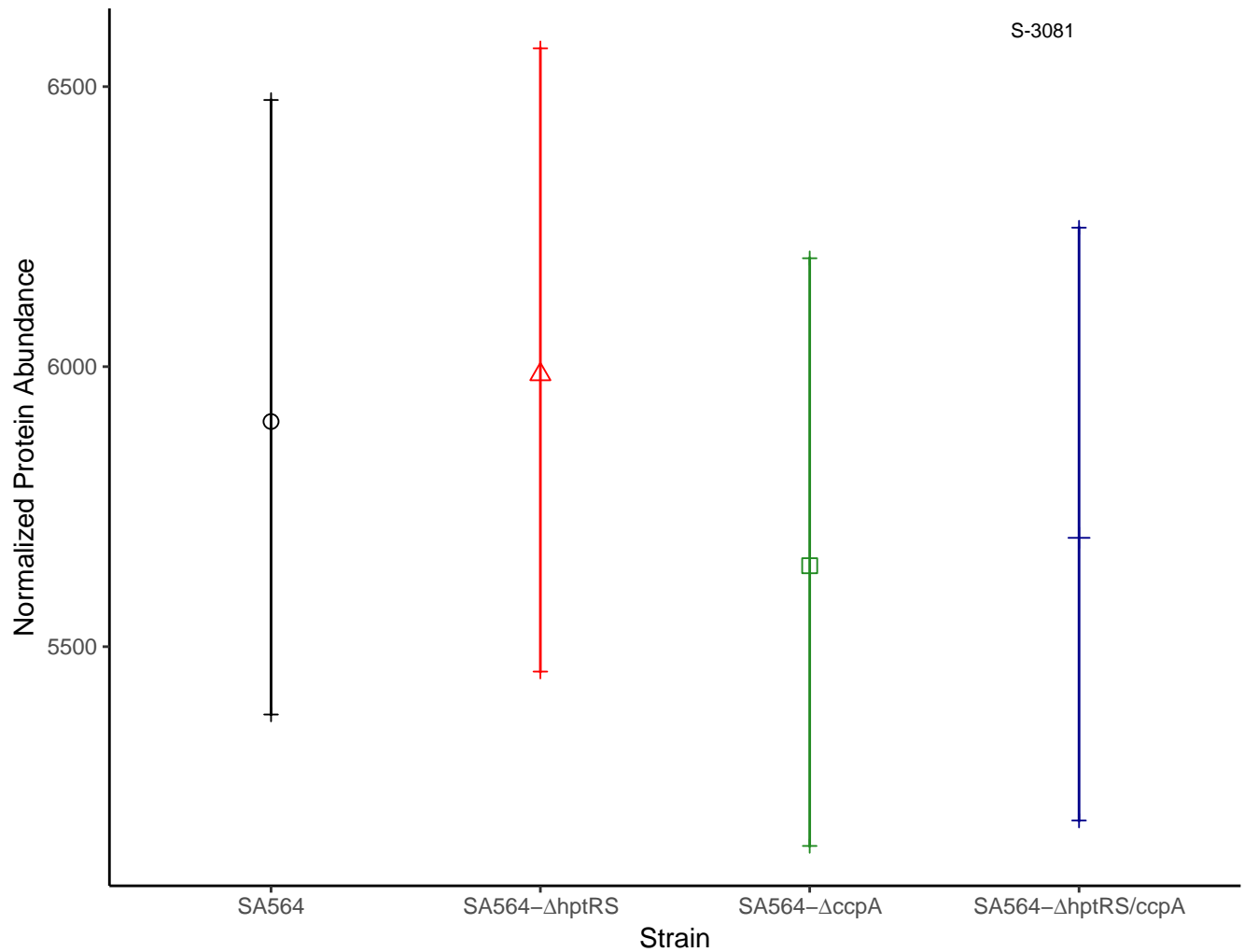
# DCUP\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

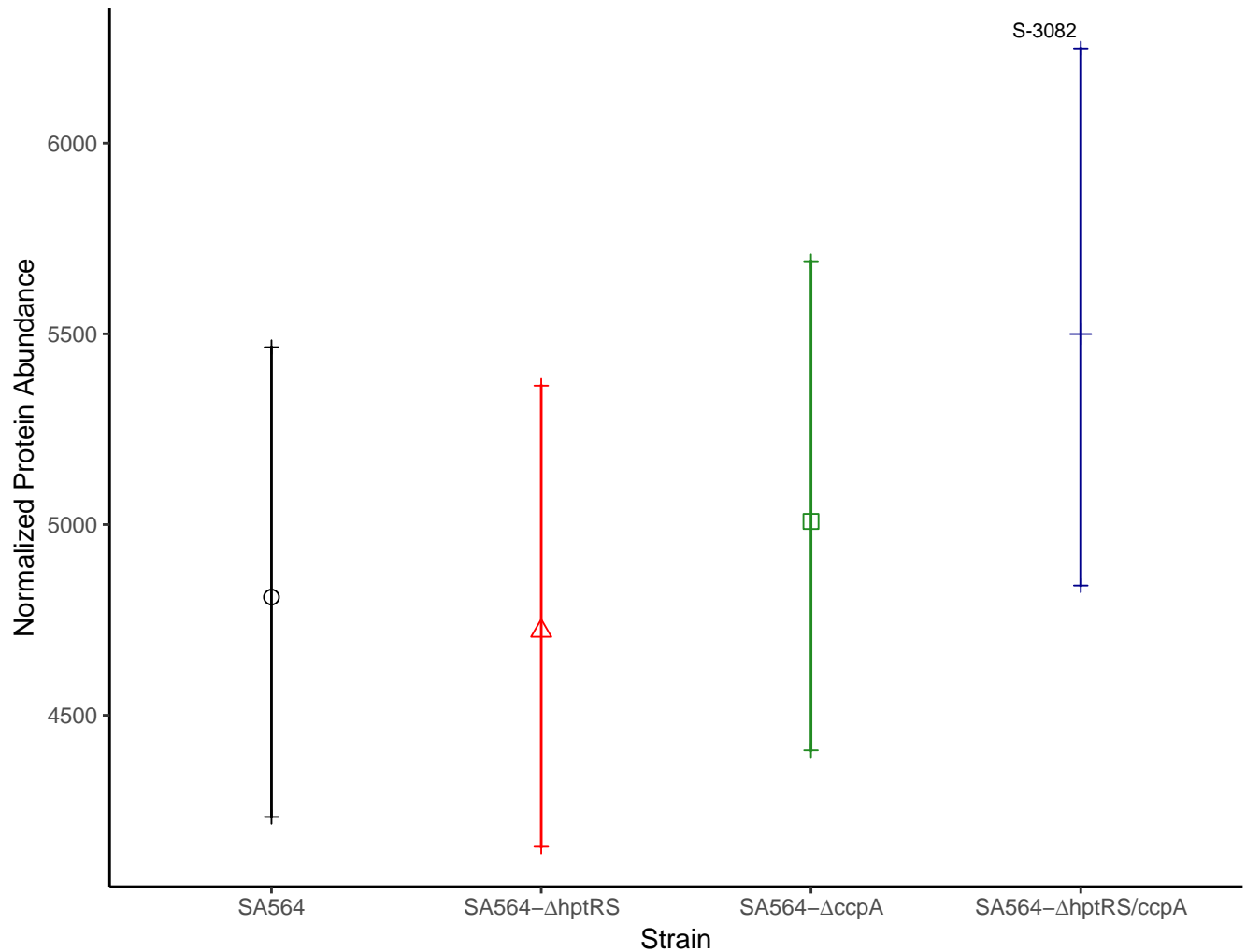


# DDL\_STAAM



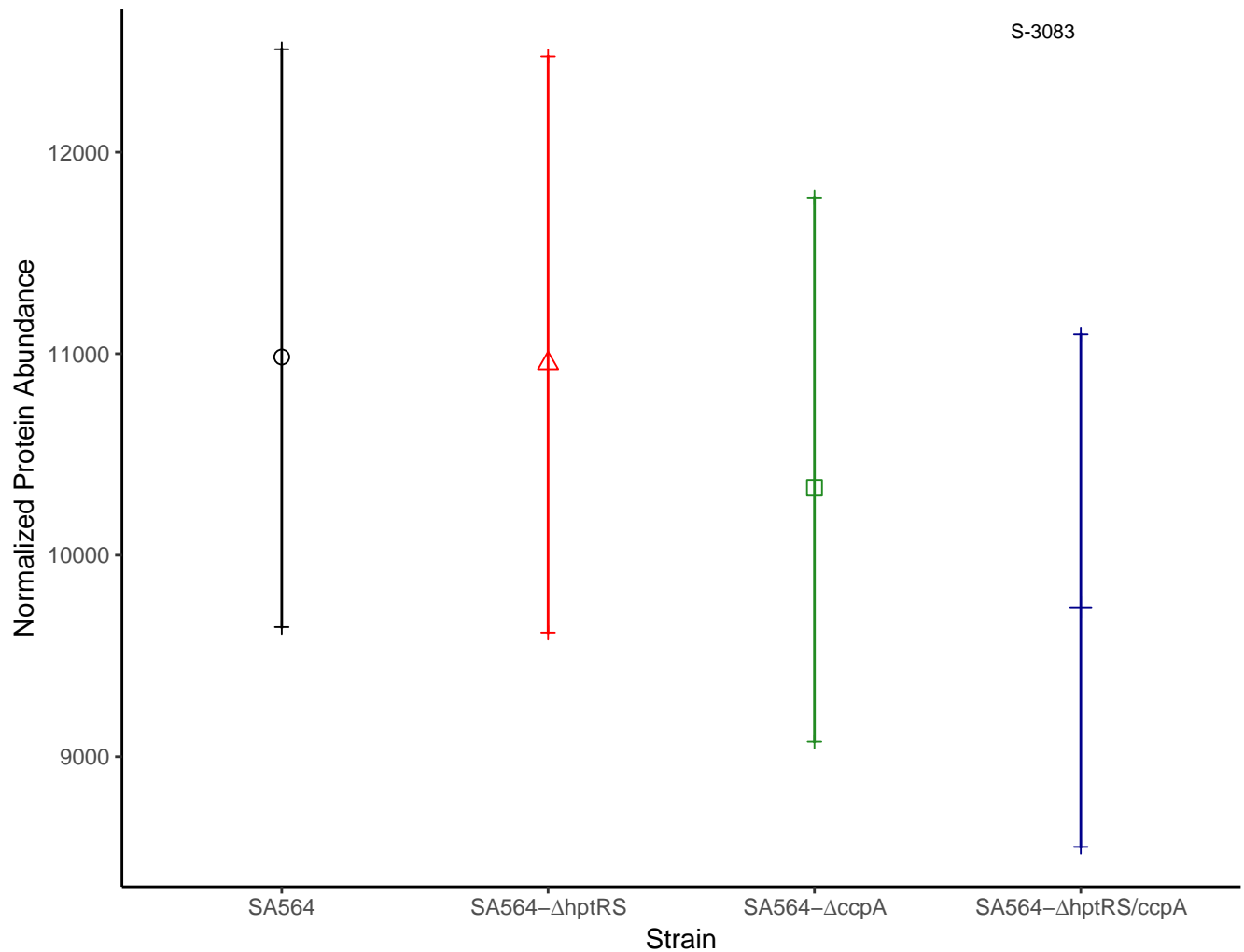
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DEF\_STAAM



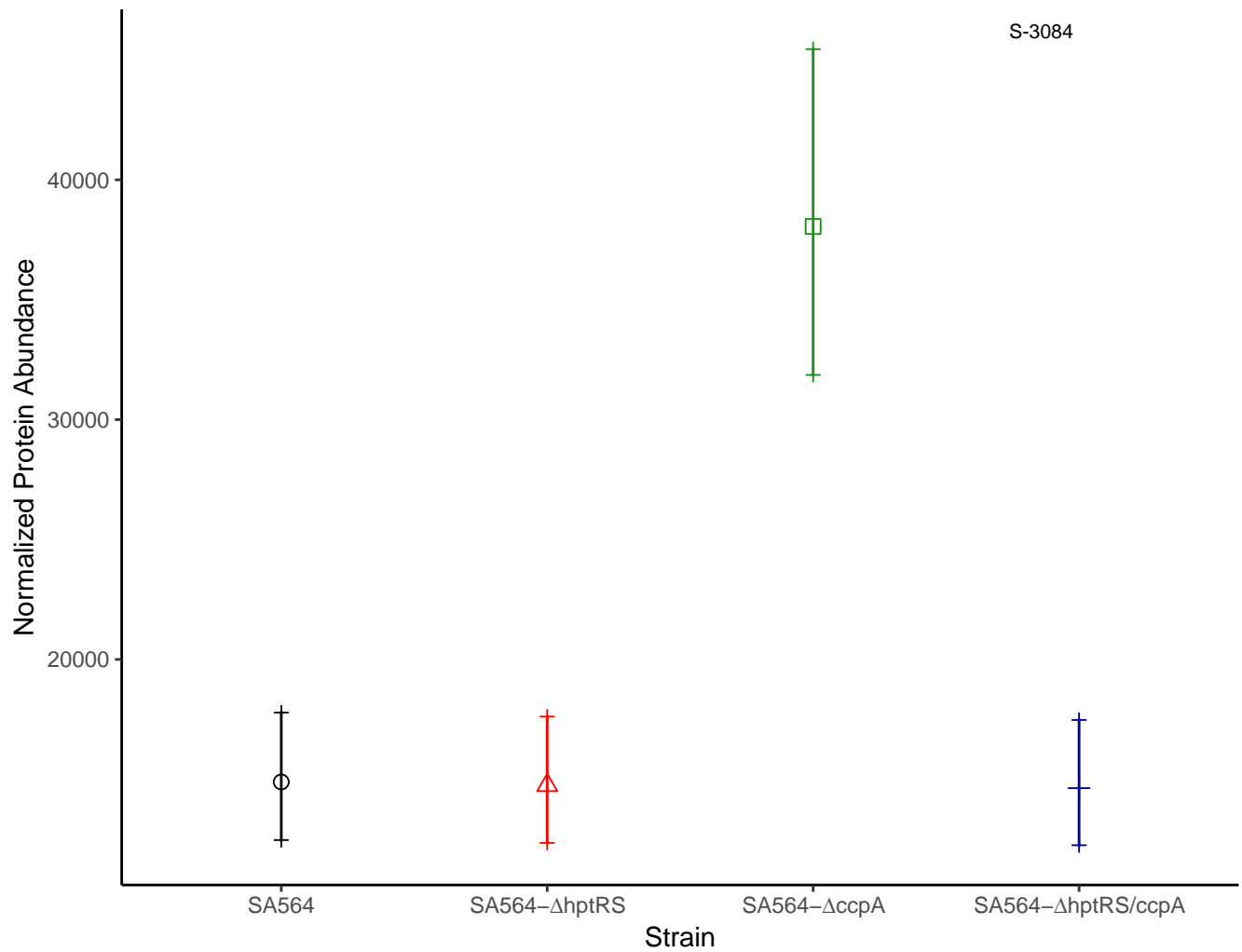
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DEOB\_STAAM



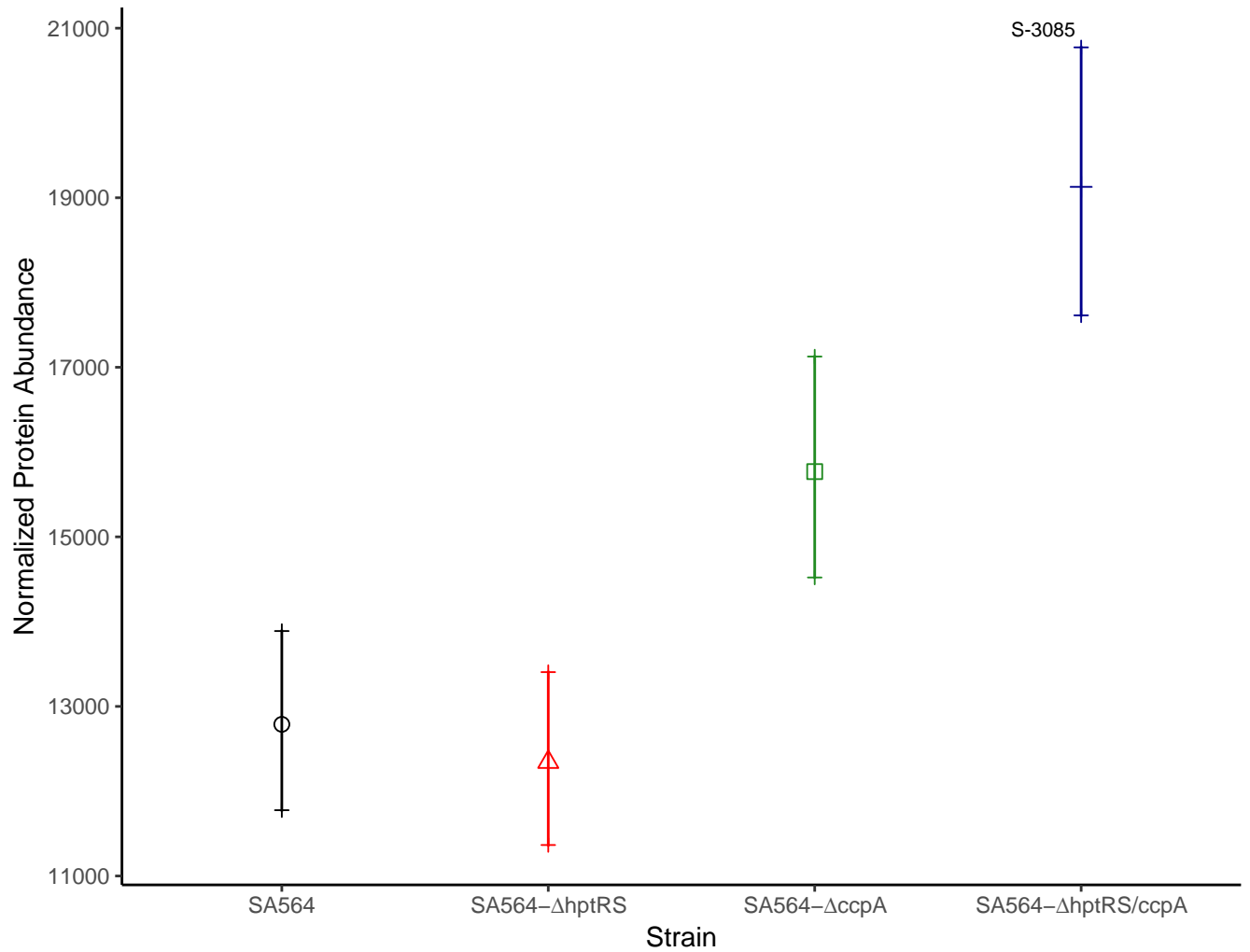
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DEOC1\_STAAM



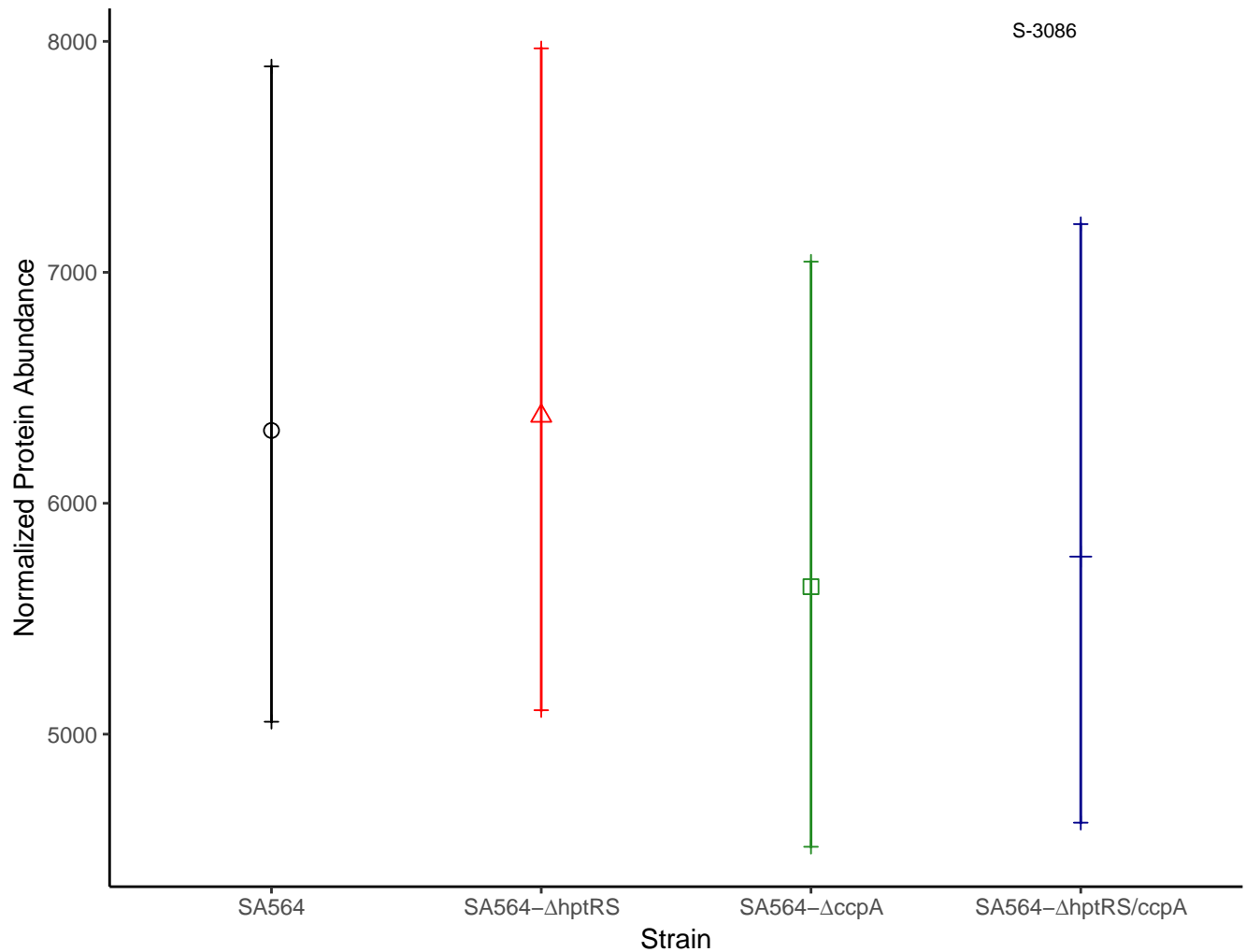
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DEOC2\_STAAM



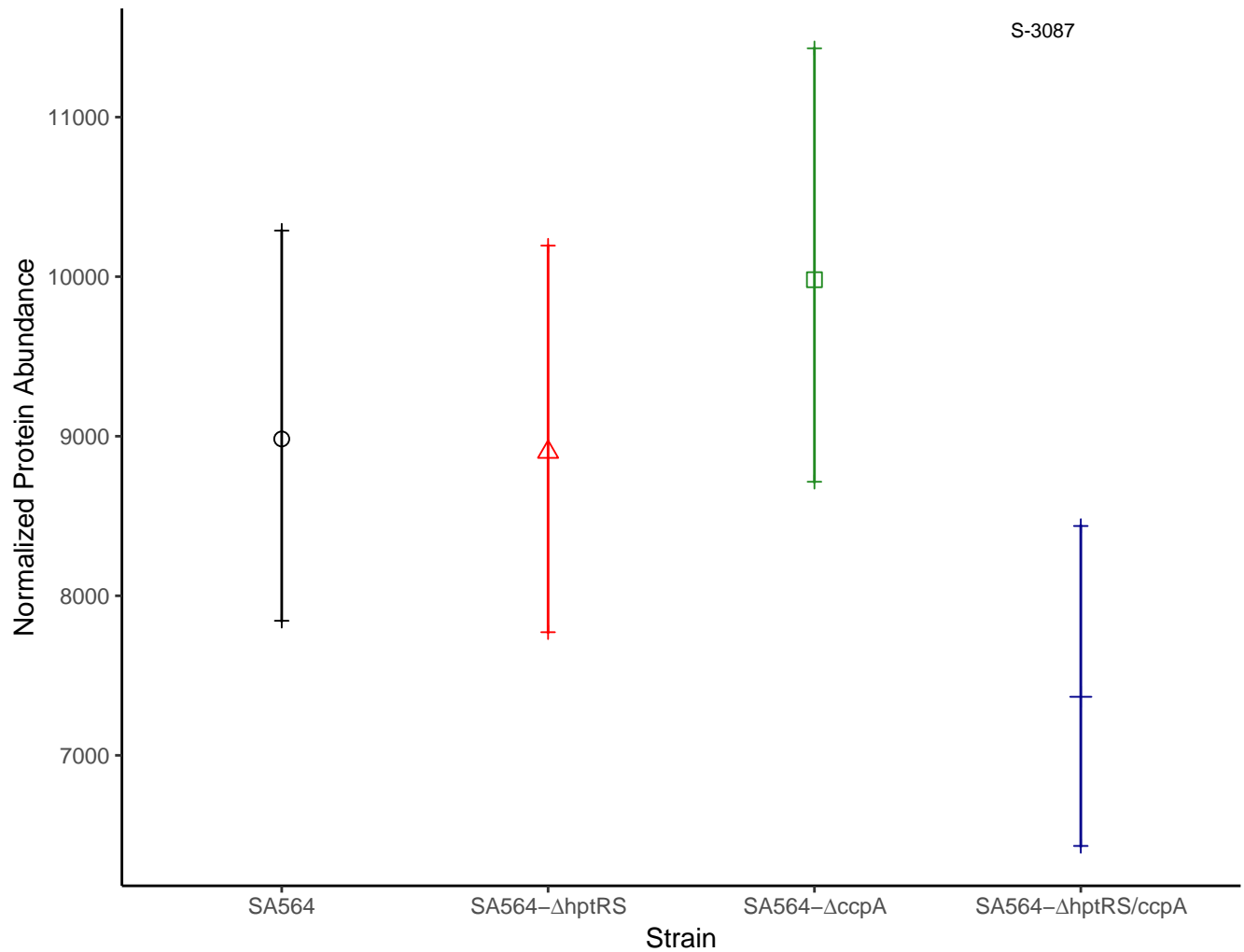
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DER\_STAAM



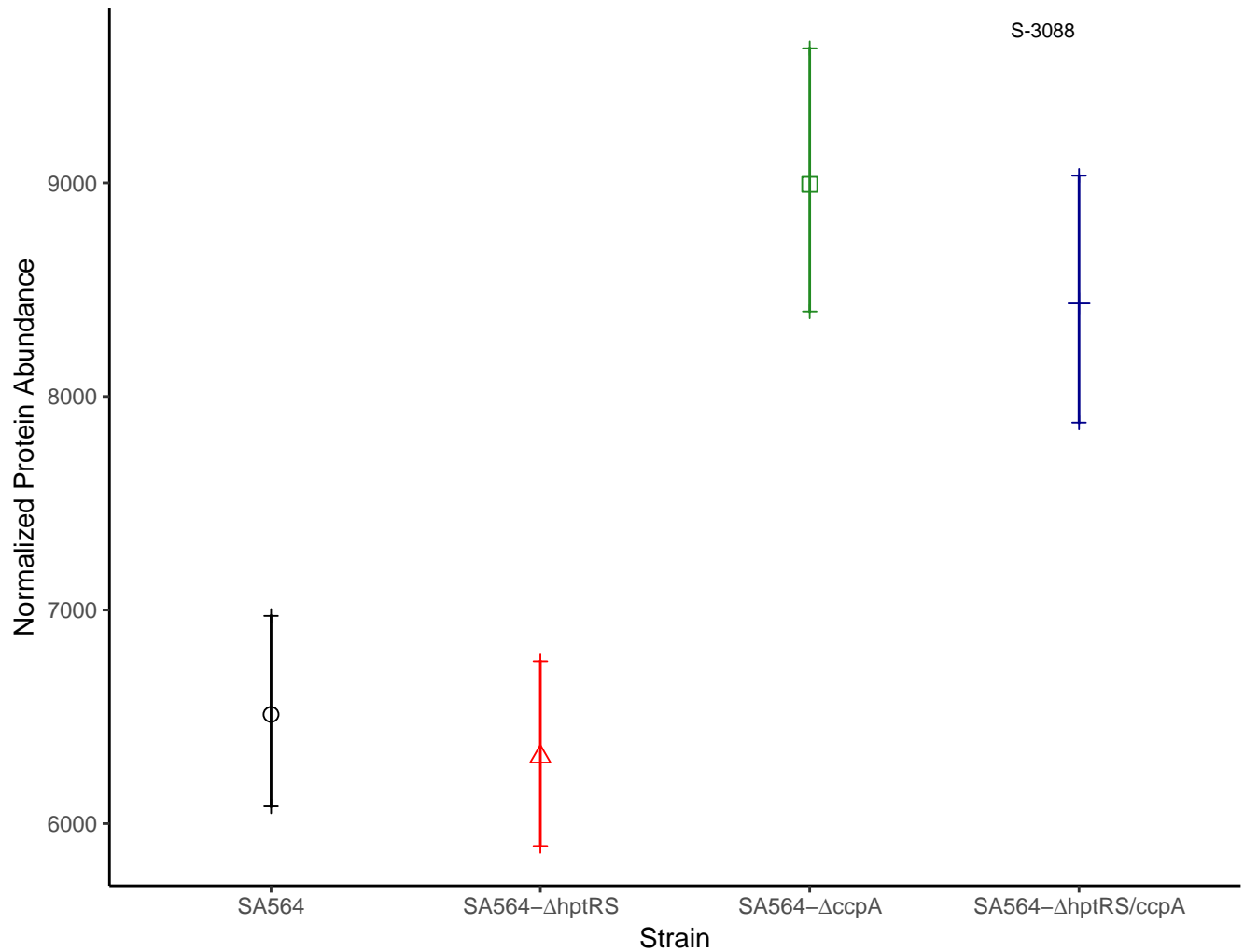
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# DHA1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DHA2\_STAAM

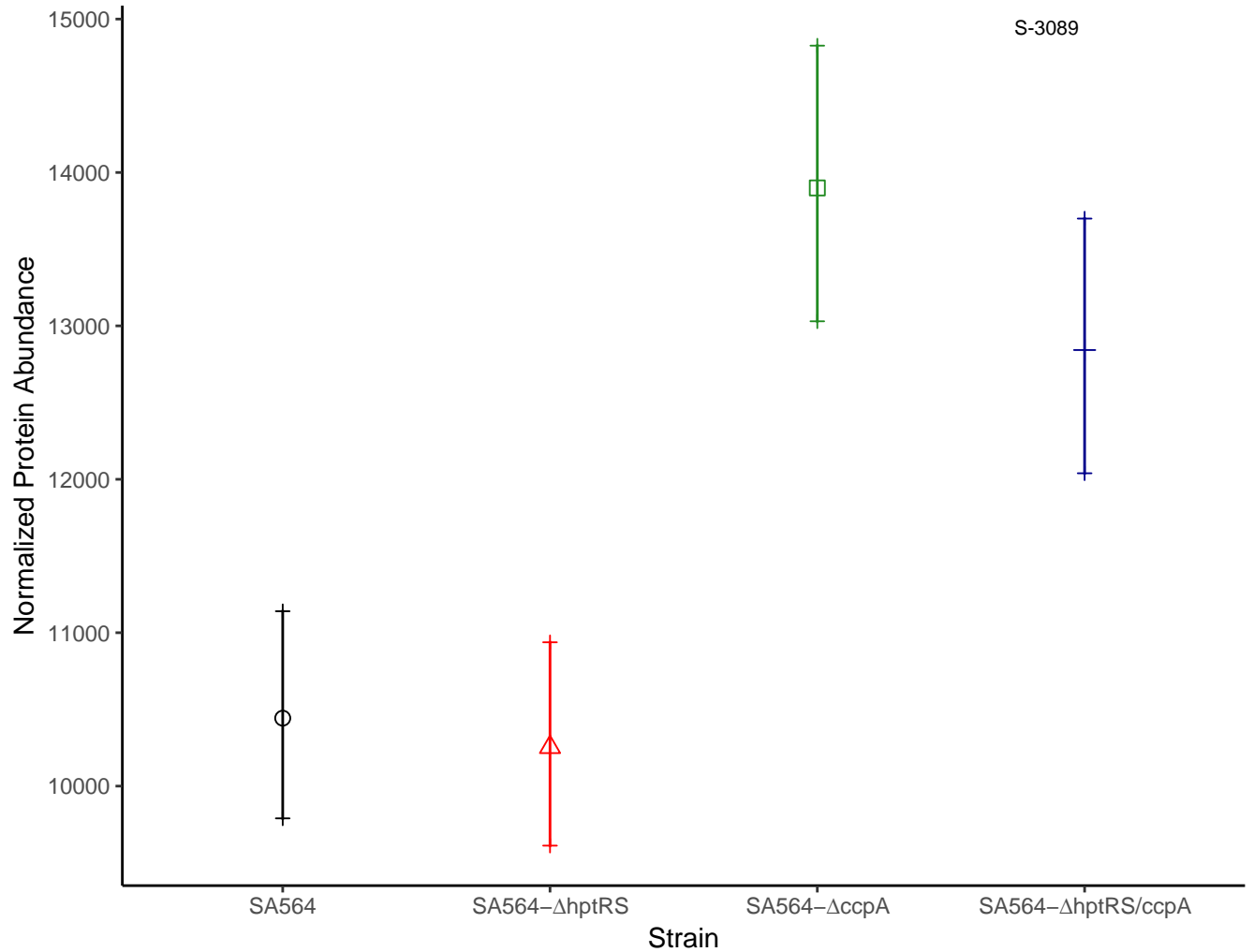


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- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

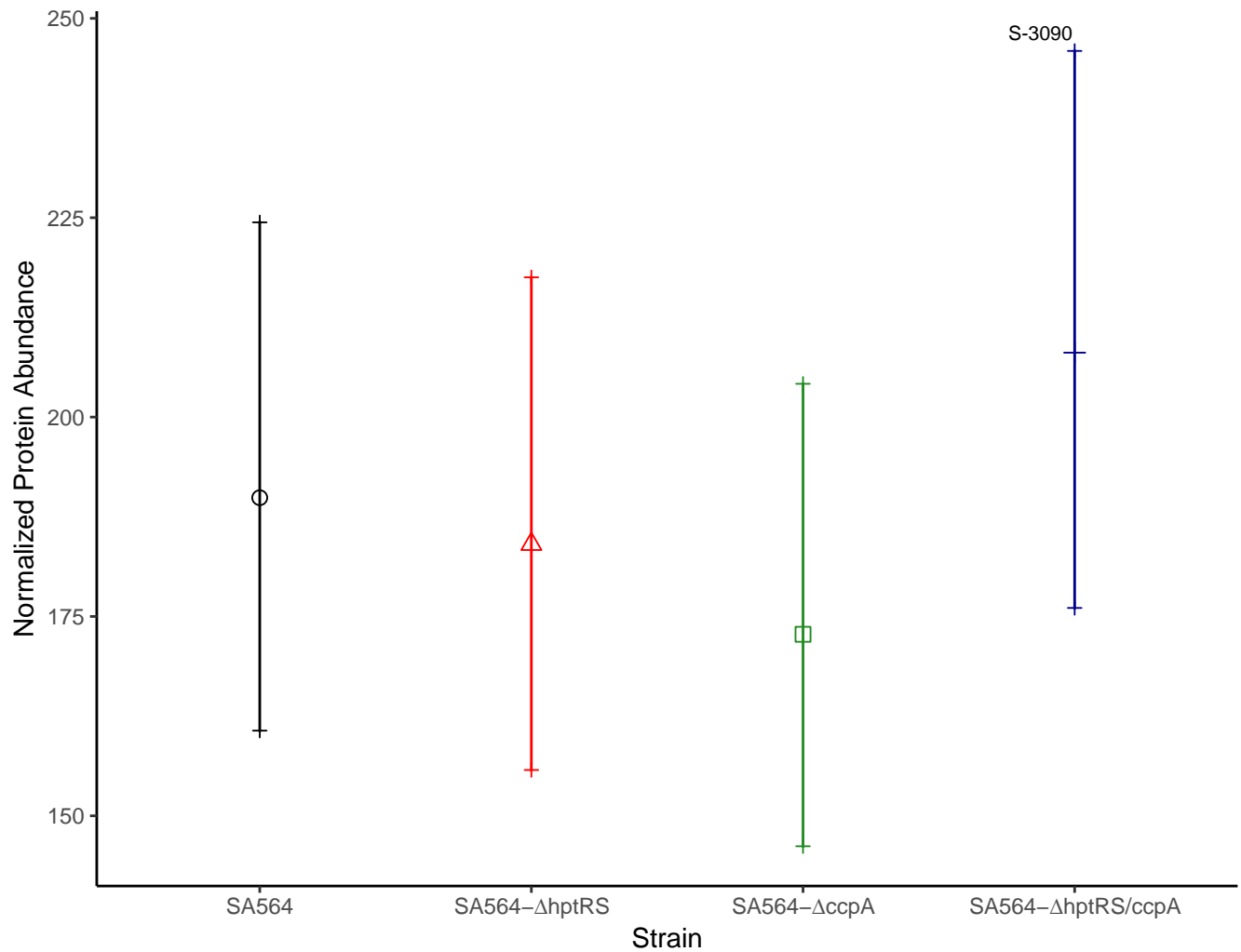


# DHE2\_STAAM



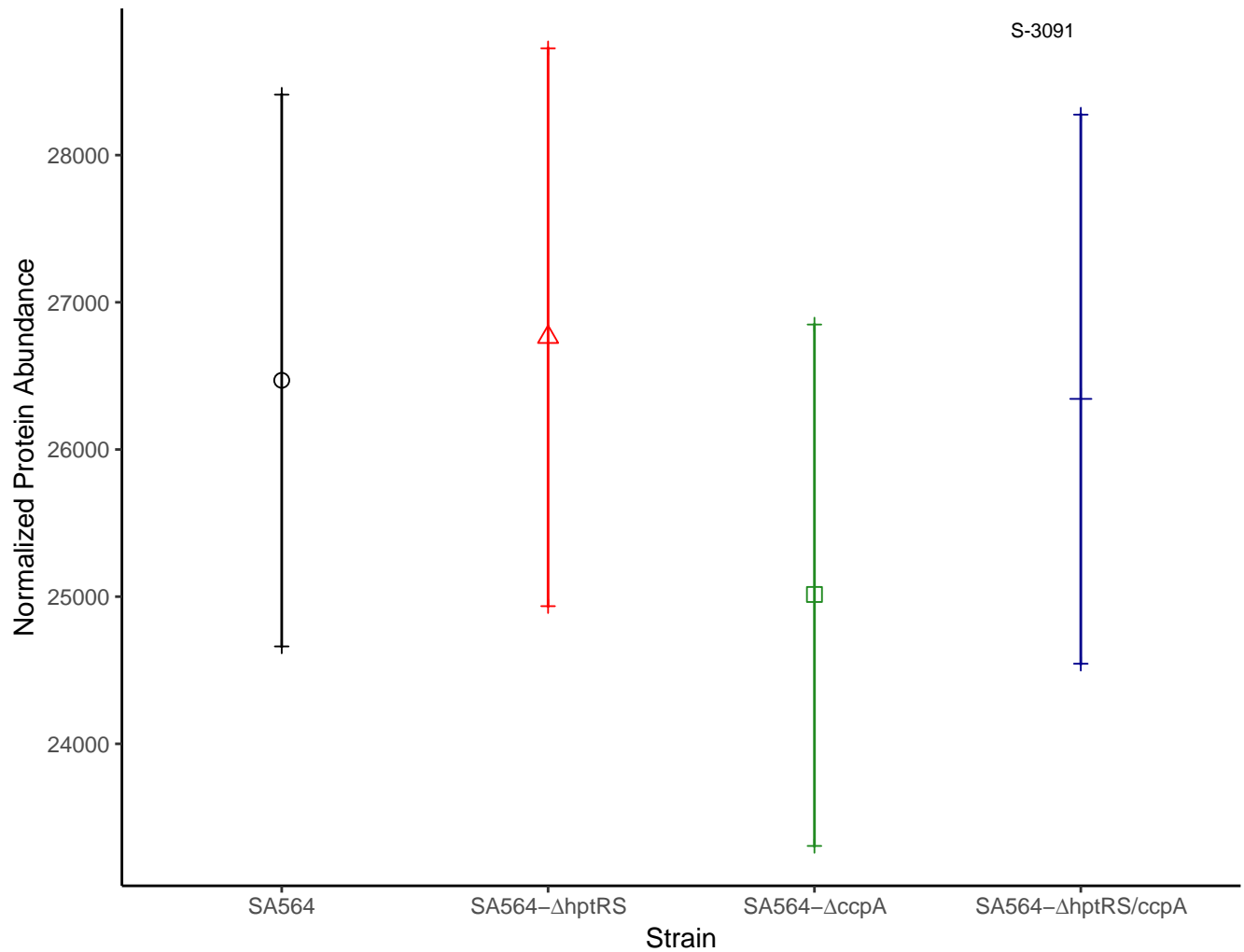
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DHPS\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

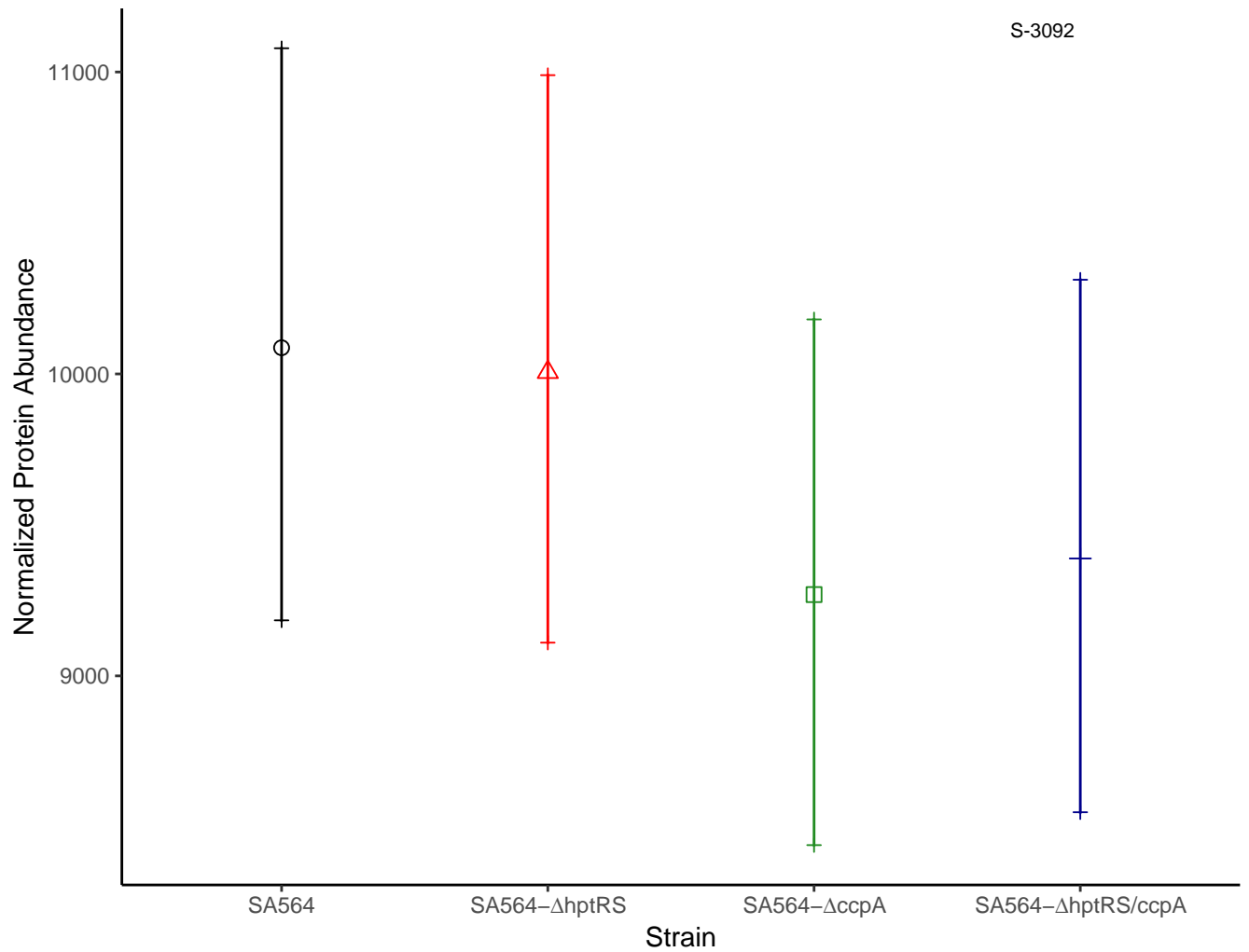
# DLDH\_STAAM



S-3091

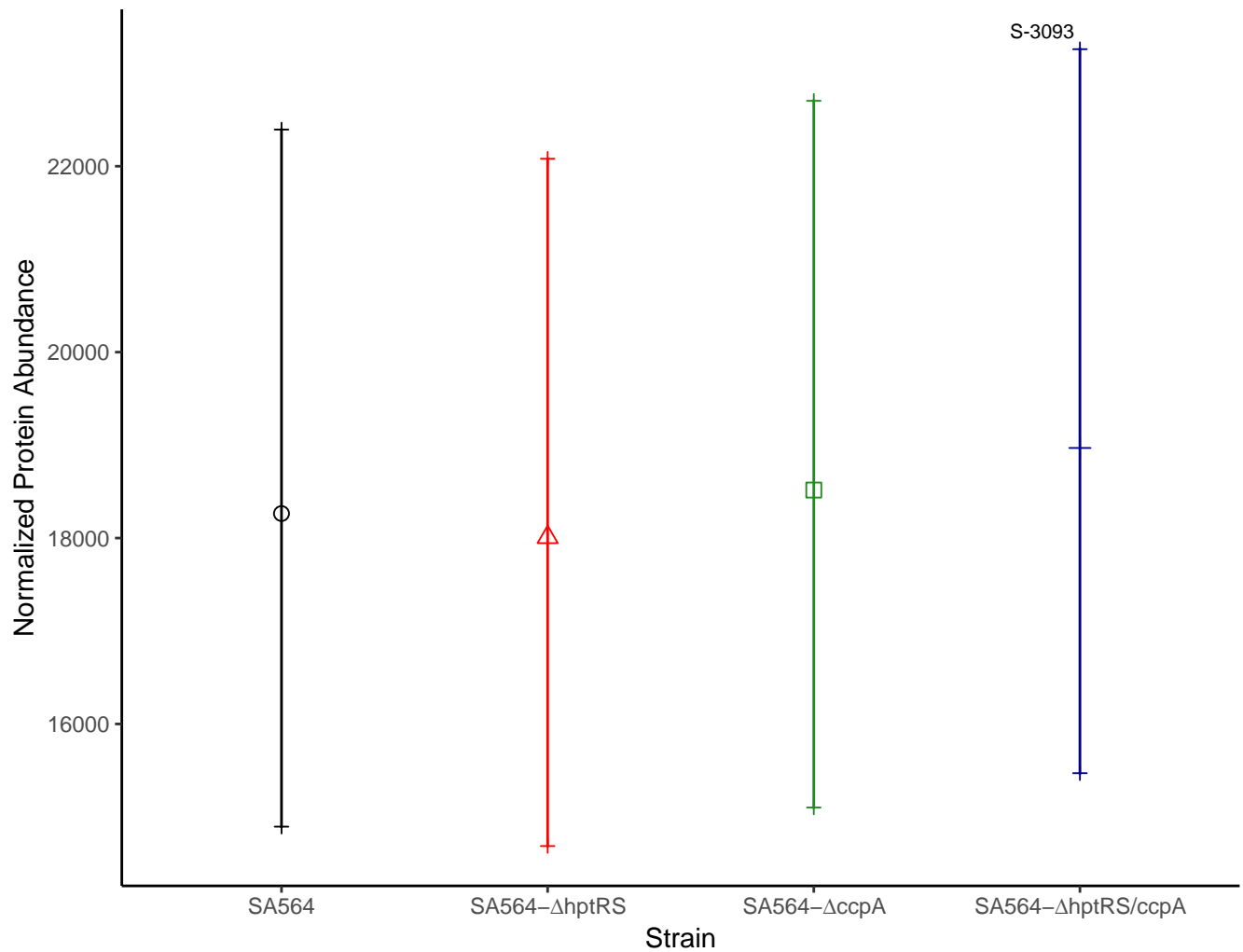
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DLTA\_STAAM



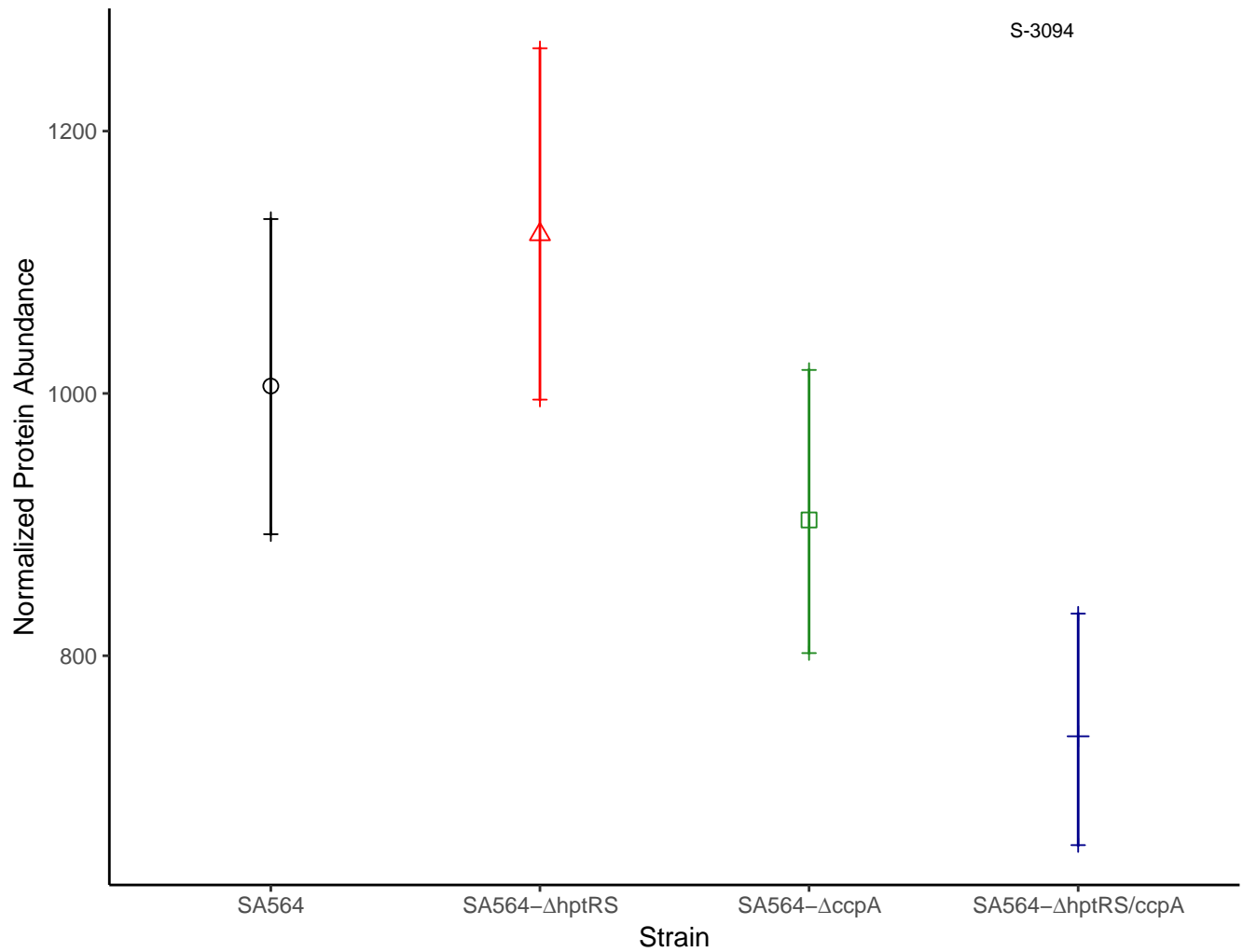
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DLTC\_STAAM



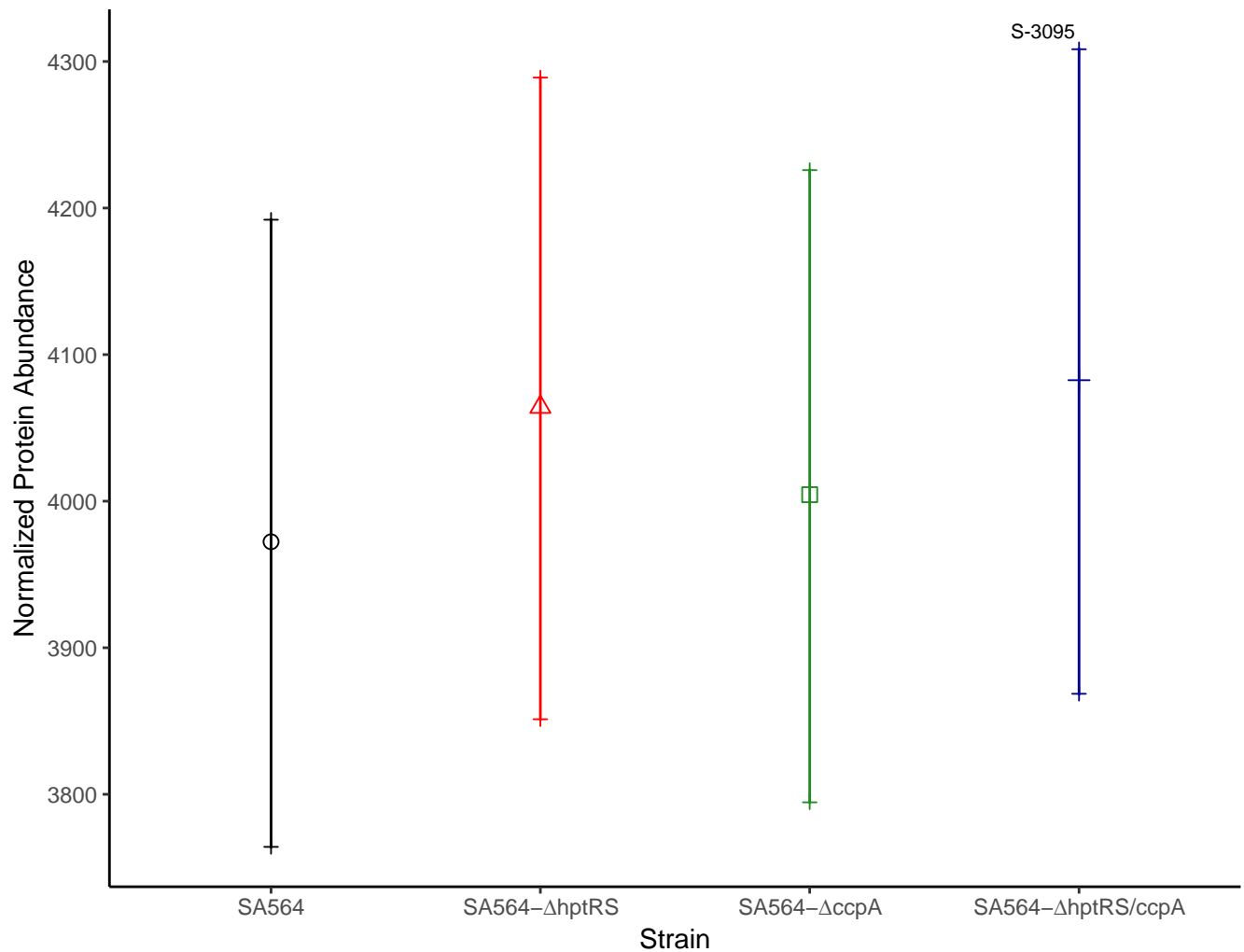
- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# DNAA\_STAAM



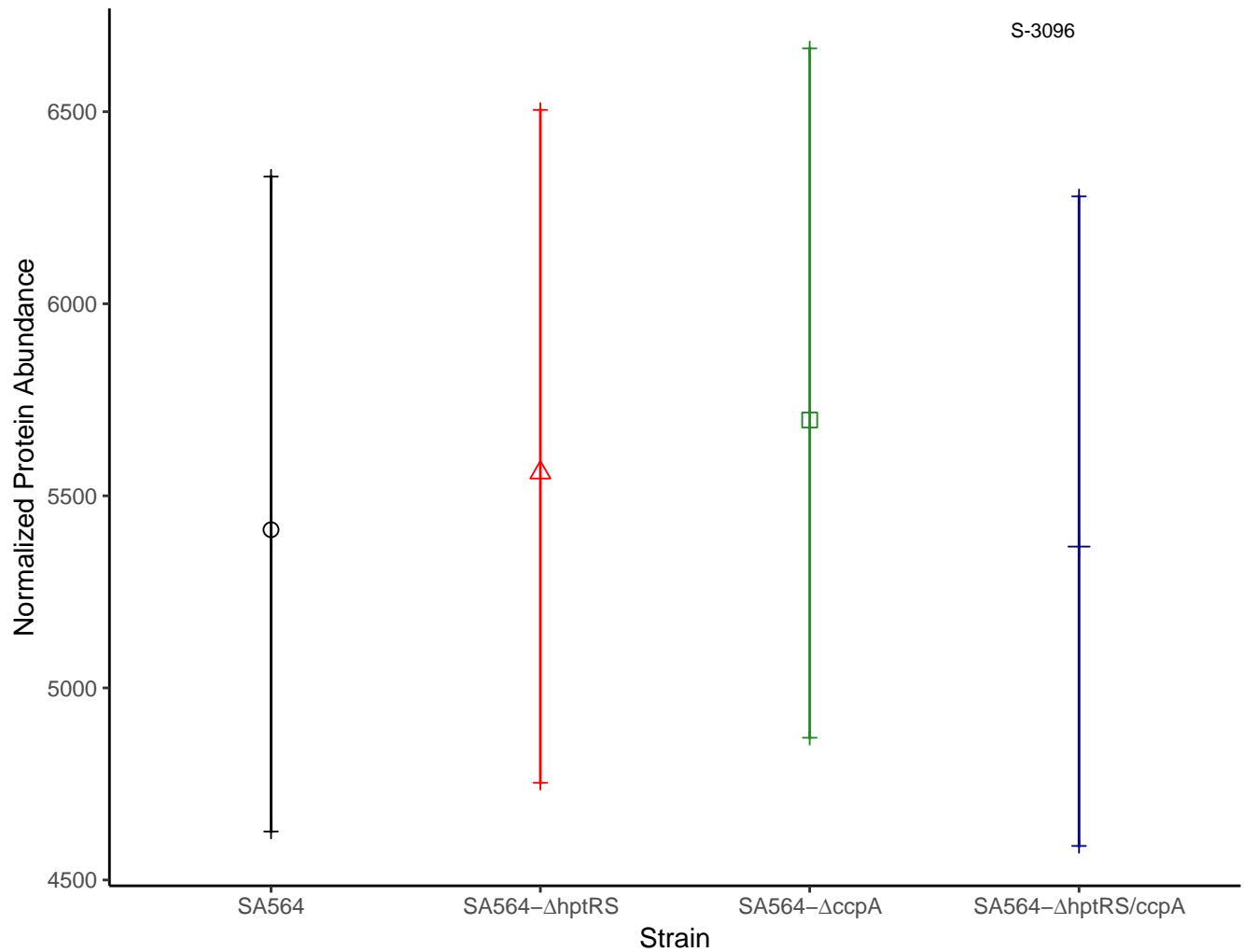
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DNAG\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

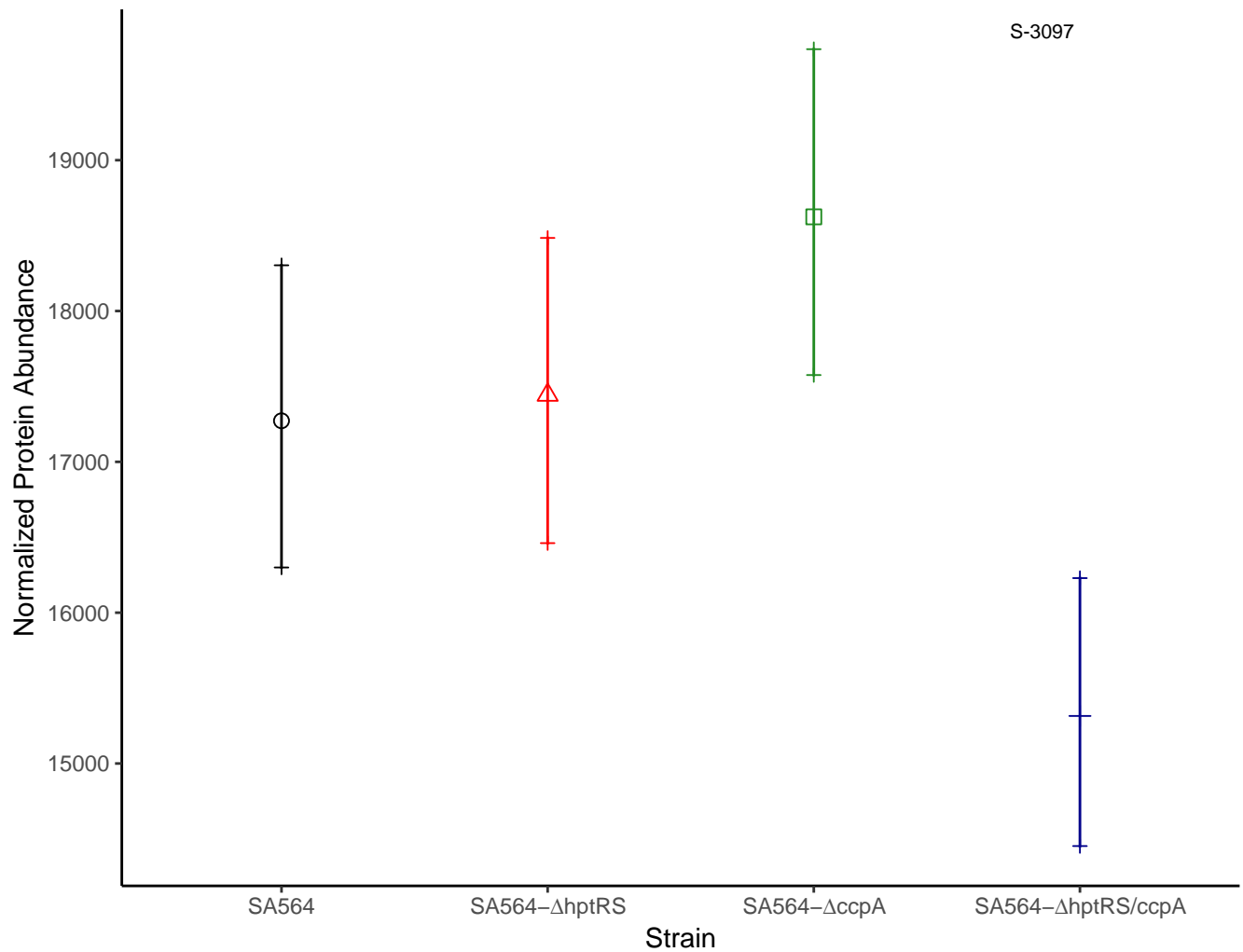
# DNAJ\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

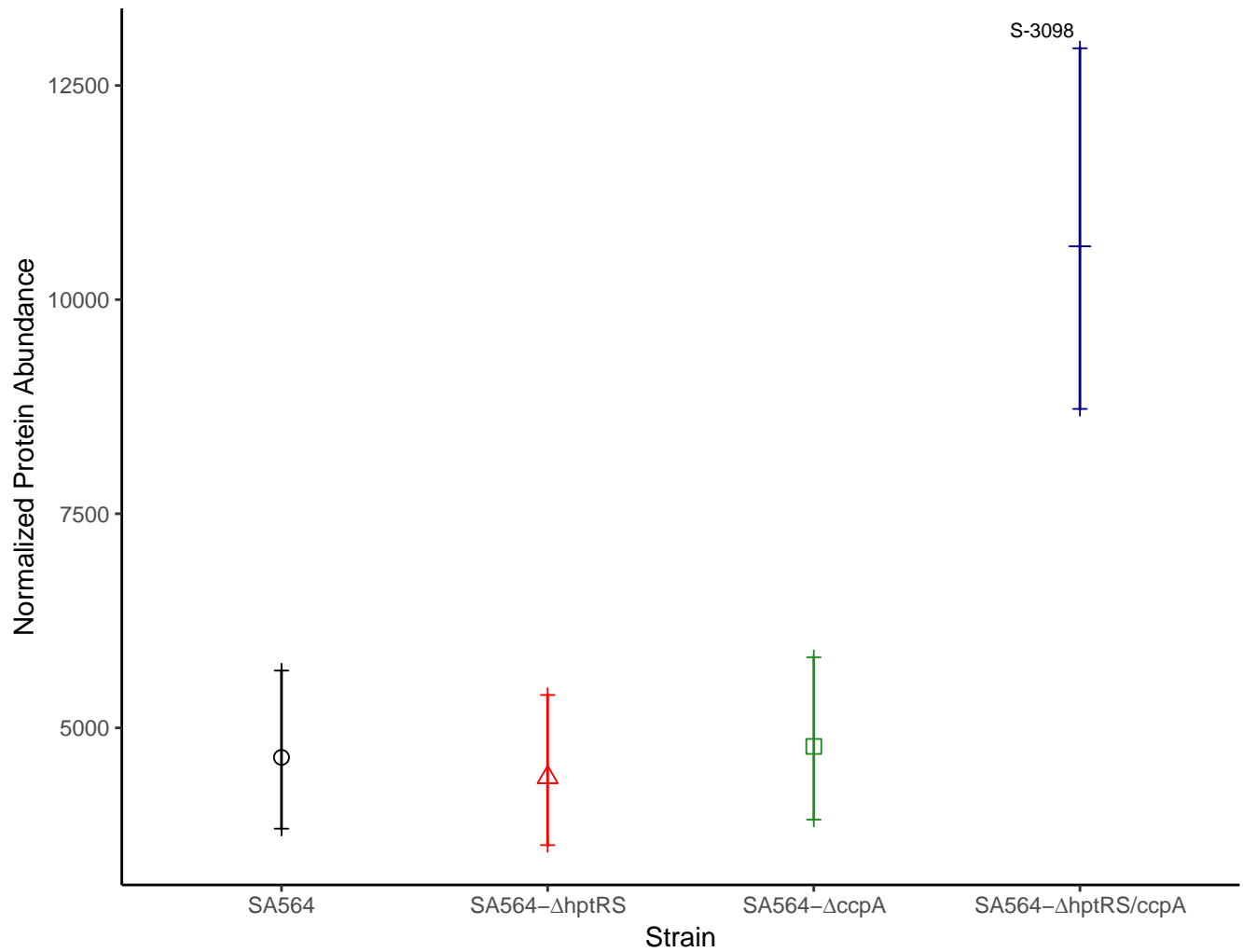


# DNAK\_STAAM



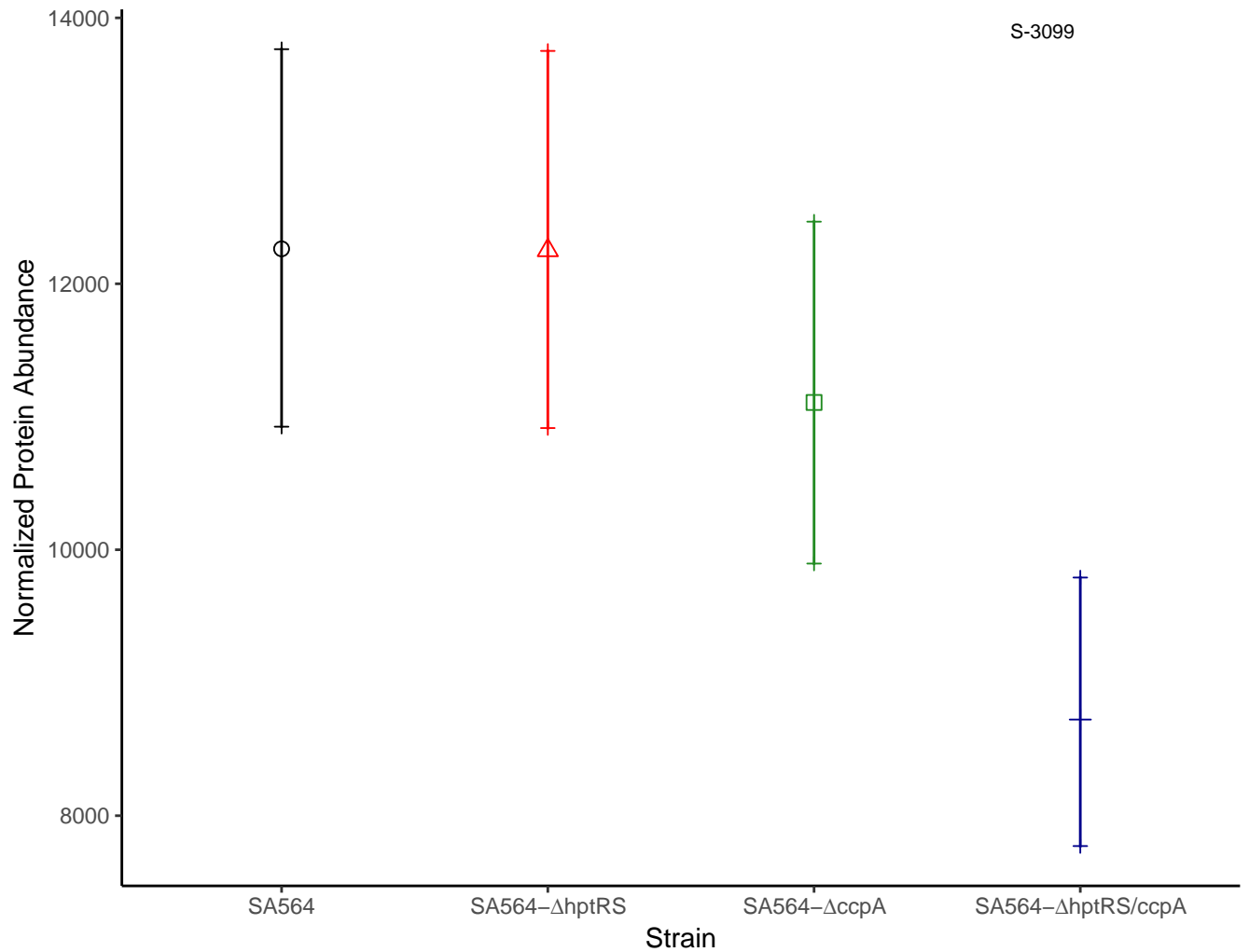
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DNLJ\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

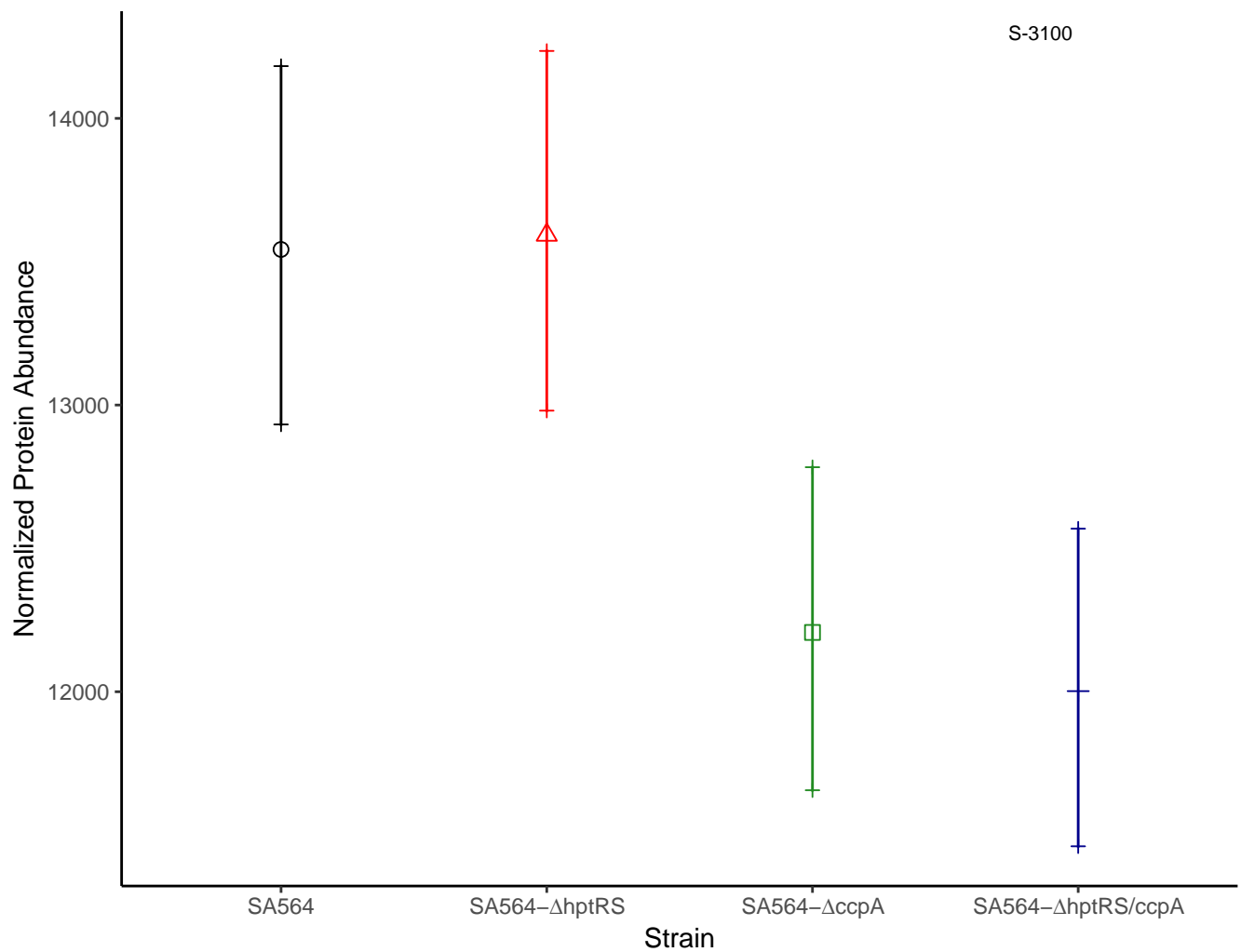
# DPO3B\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DPO4\_STAAM

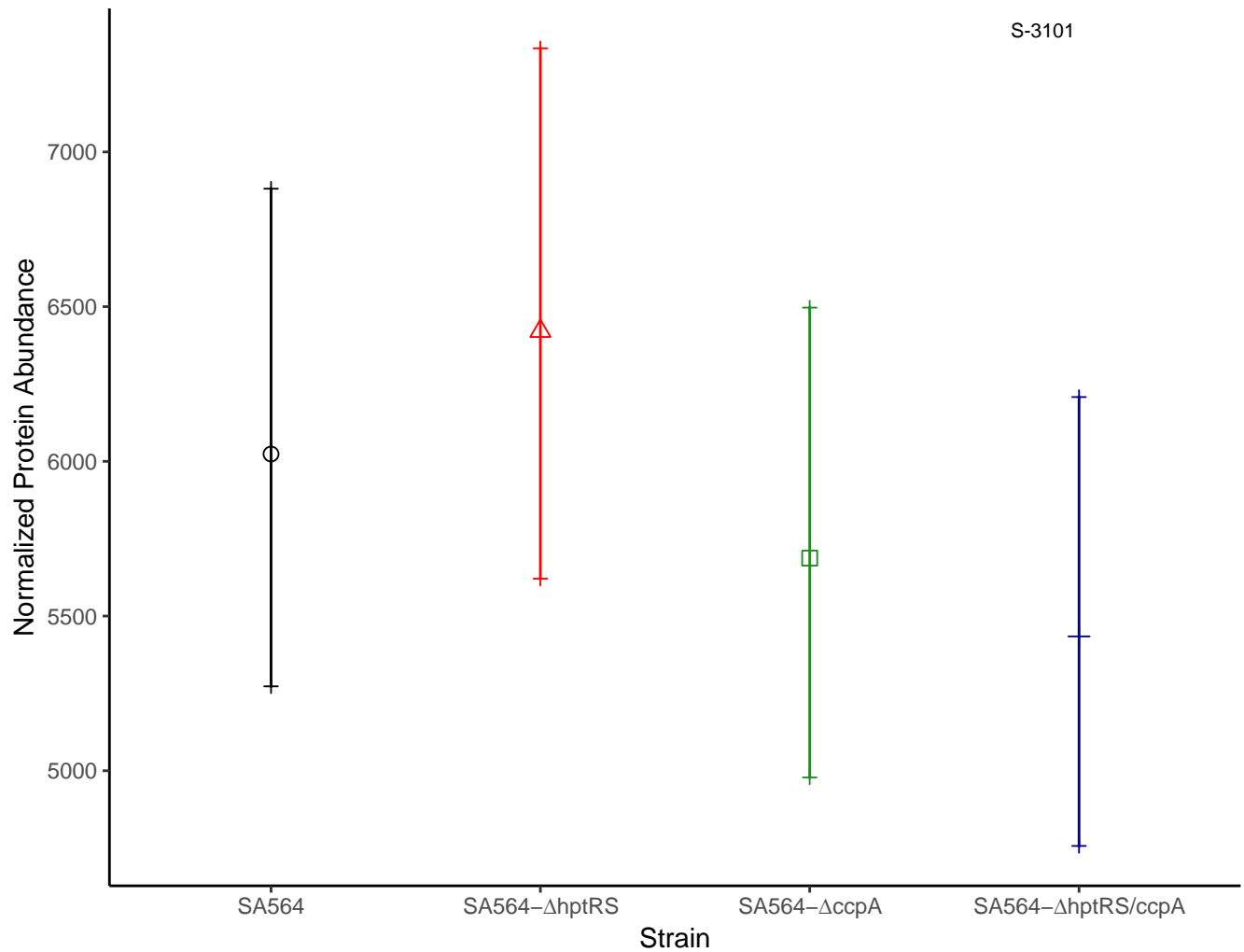
S-3100



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

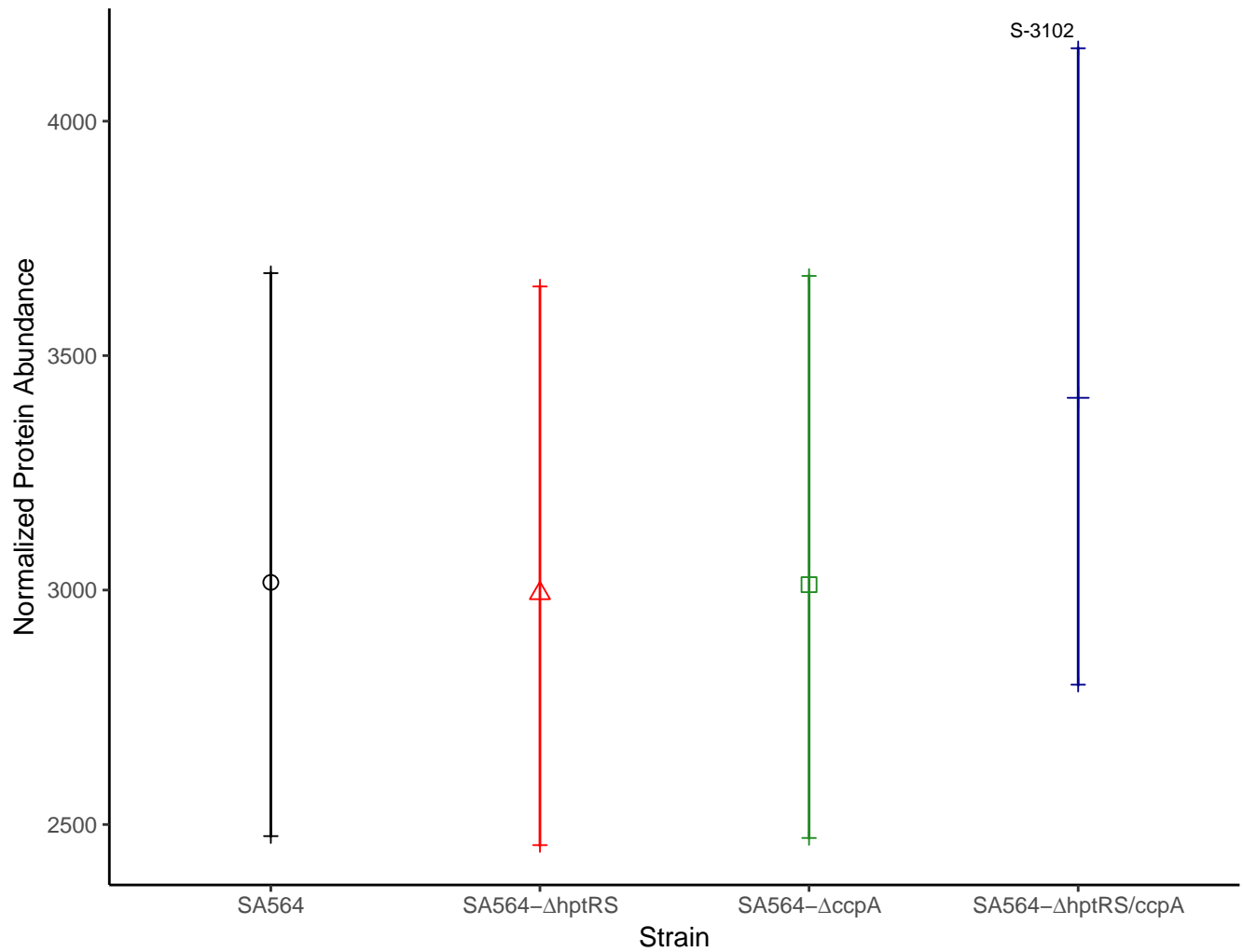
# DTD\_STAAM

S-3101



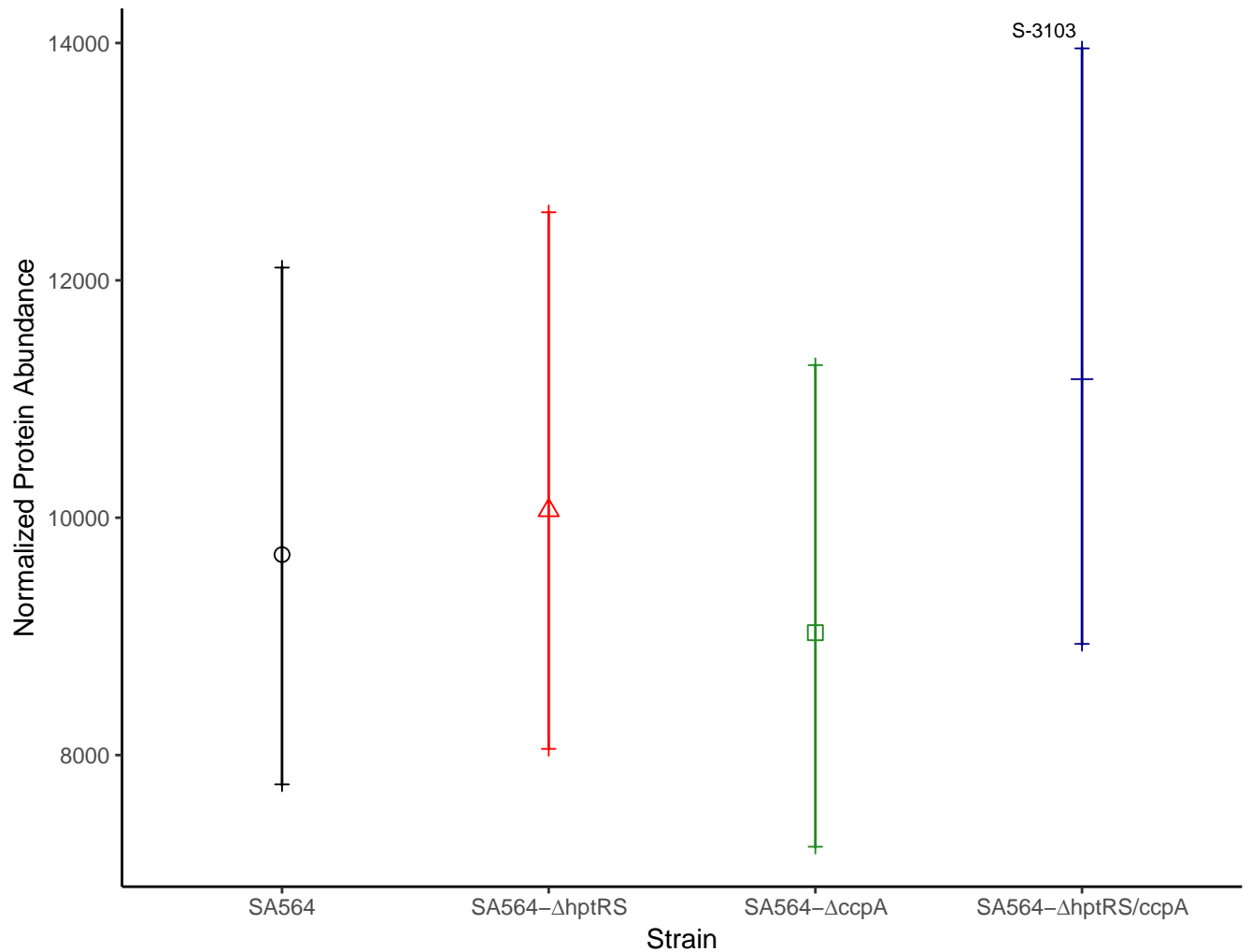
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# DYR\_STAAM



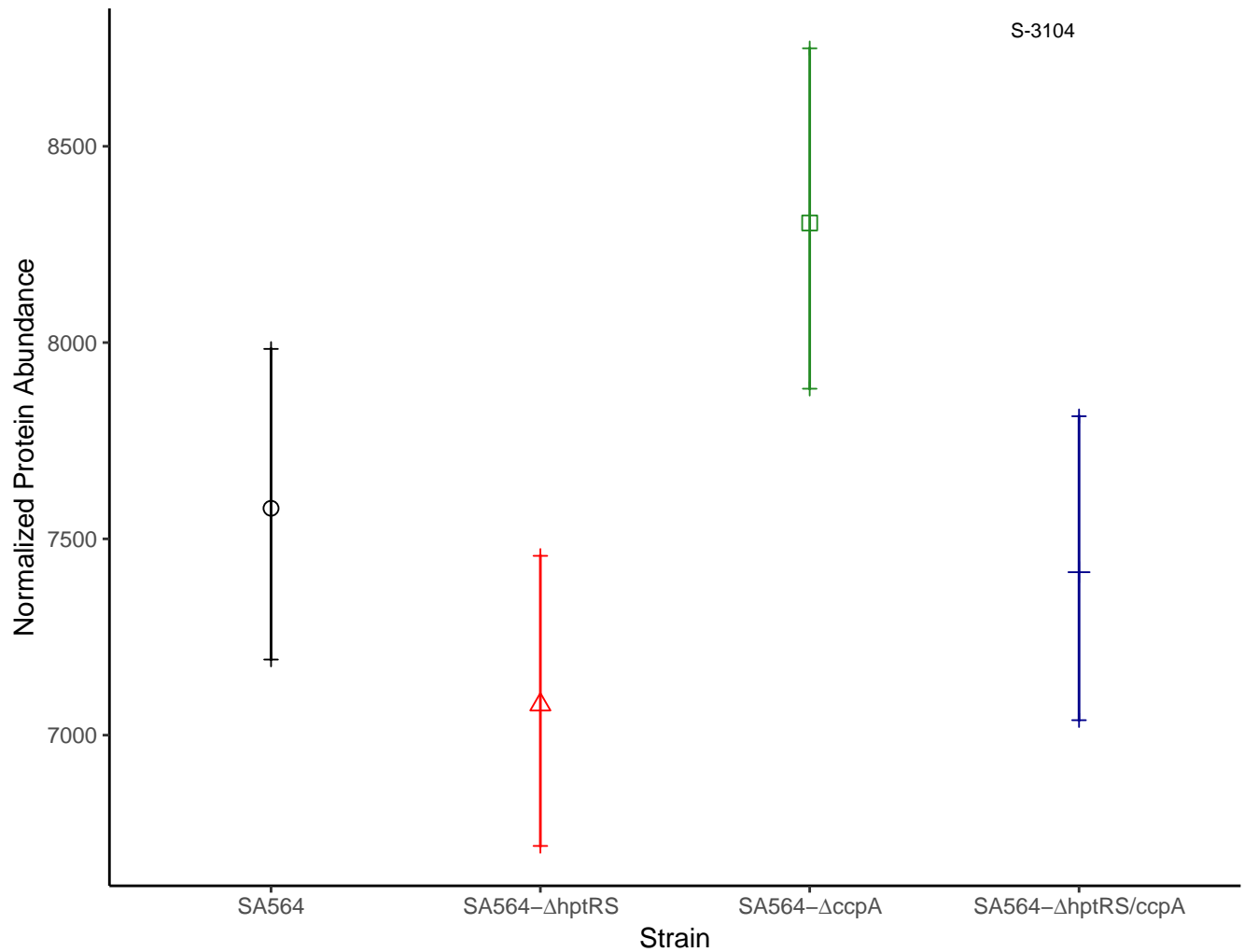
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EBPS\_STAAM



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

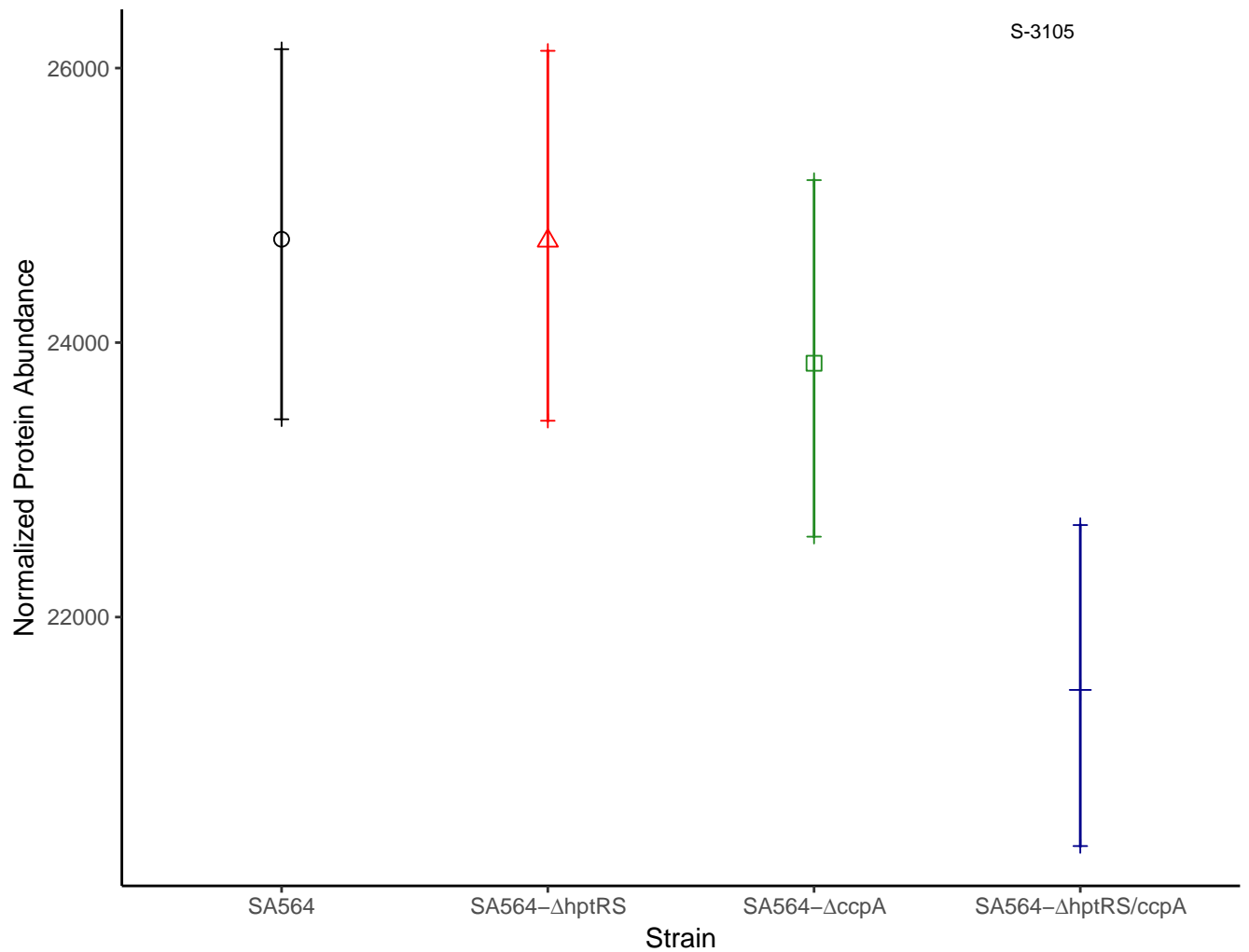
# ECFA1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

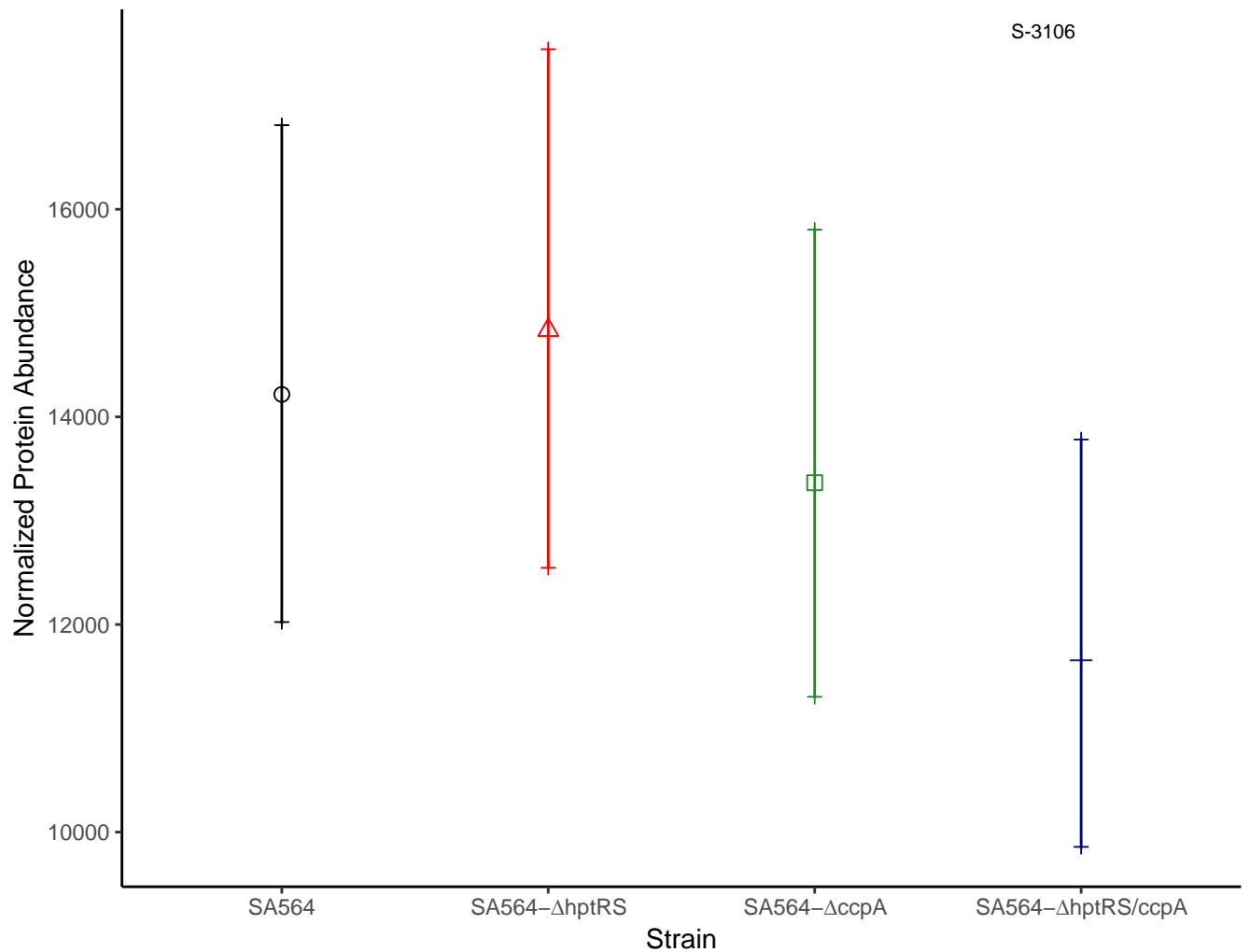


# EFG\_STAAM



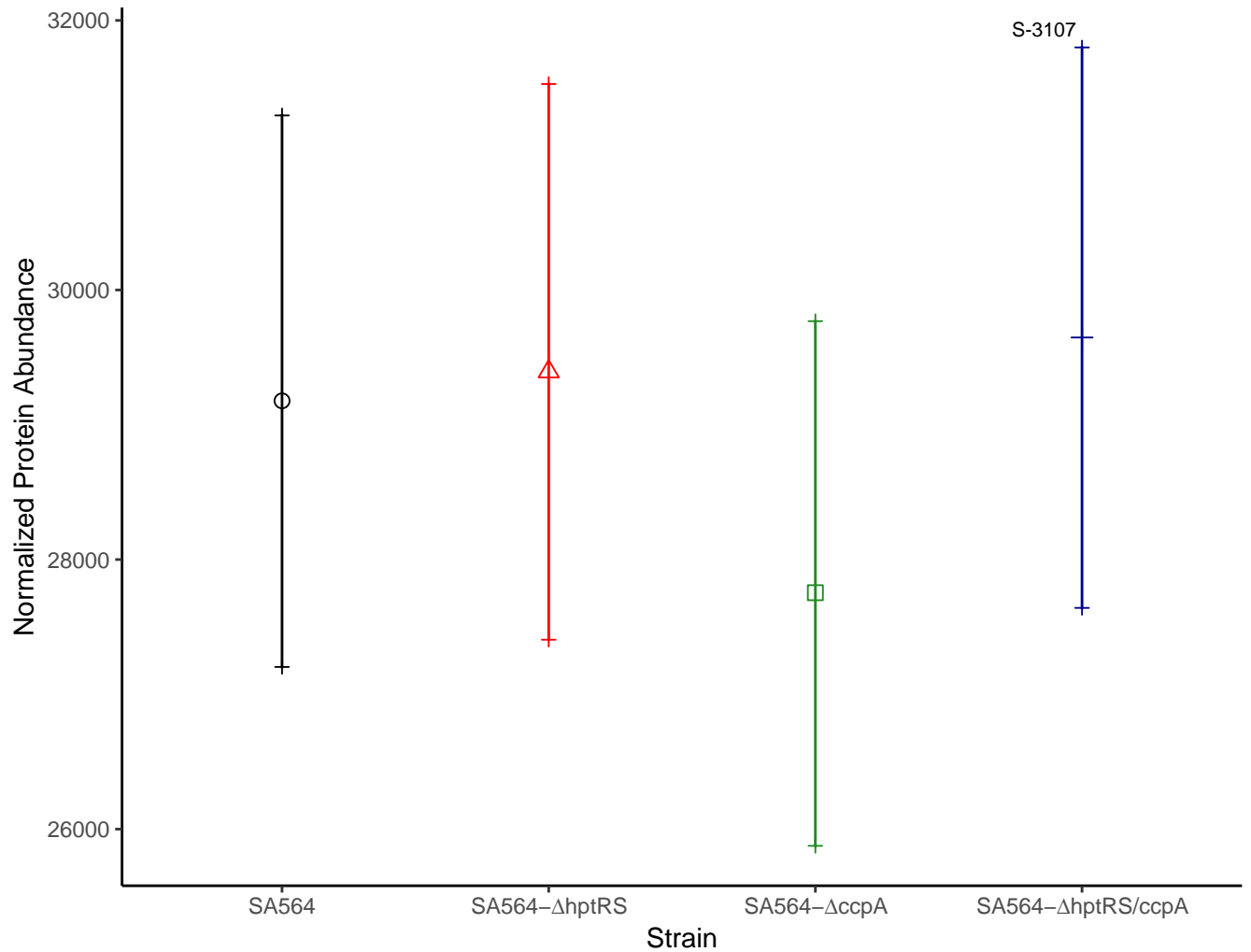
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EFP\_STAAM



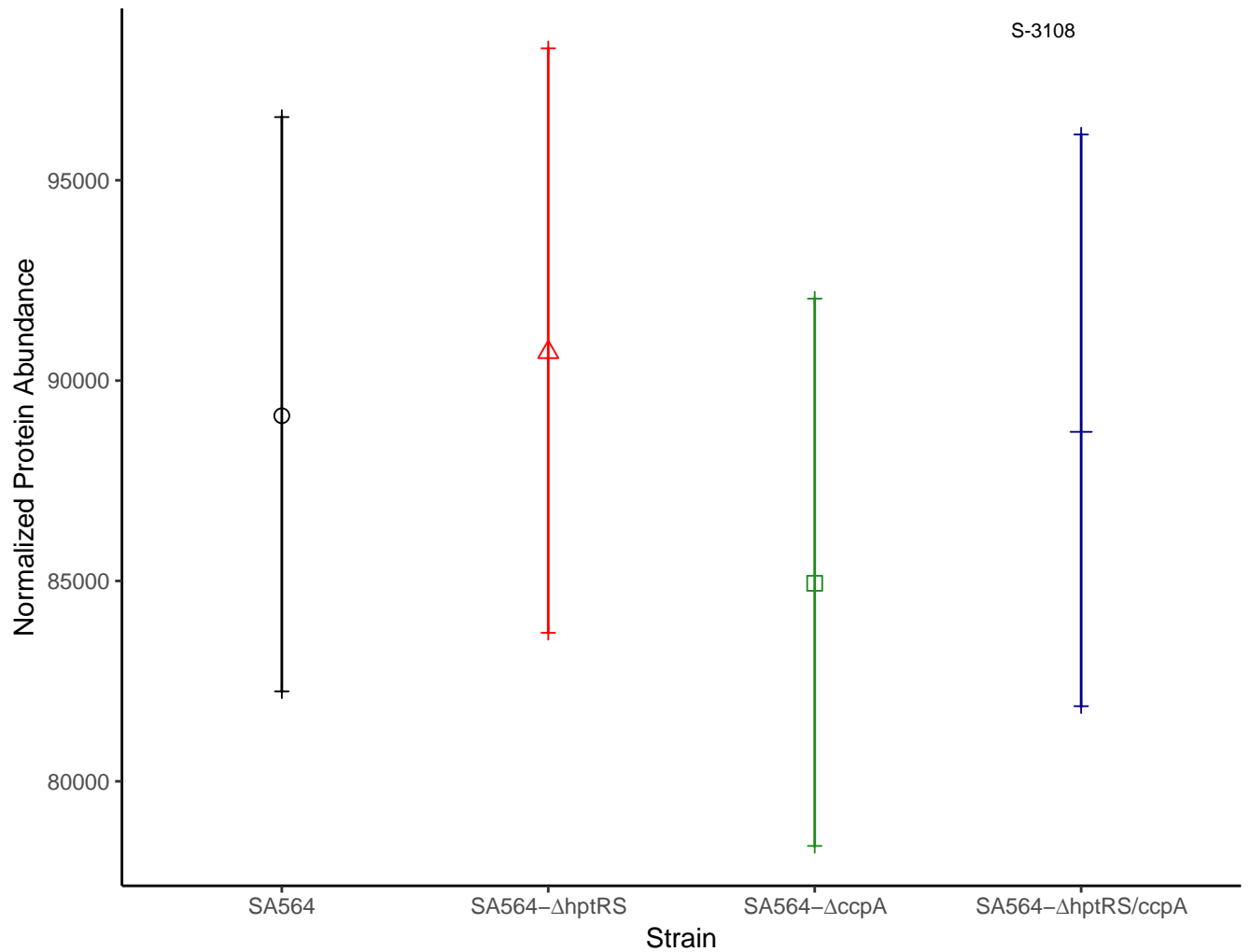
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EFTS\_STAAM



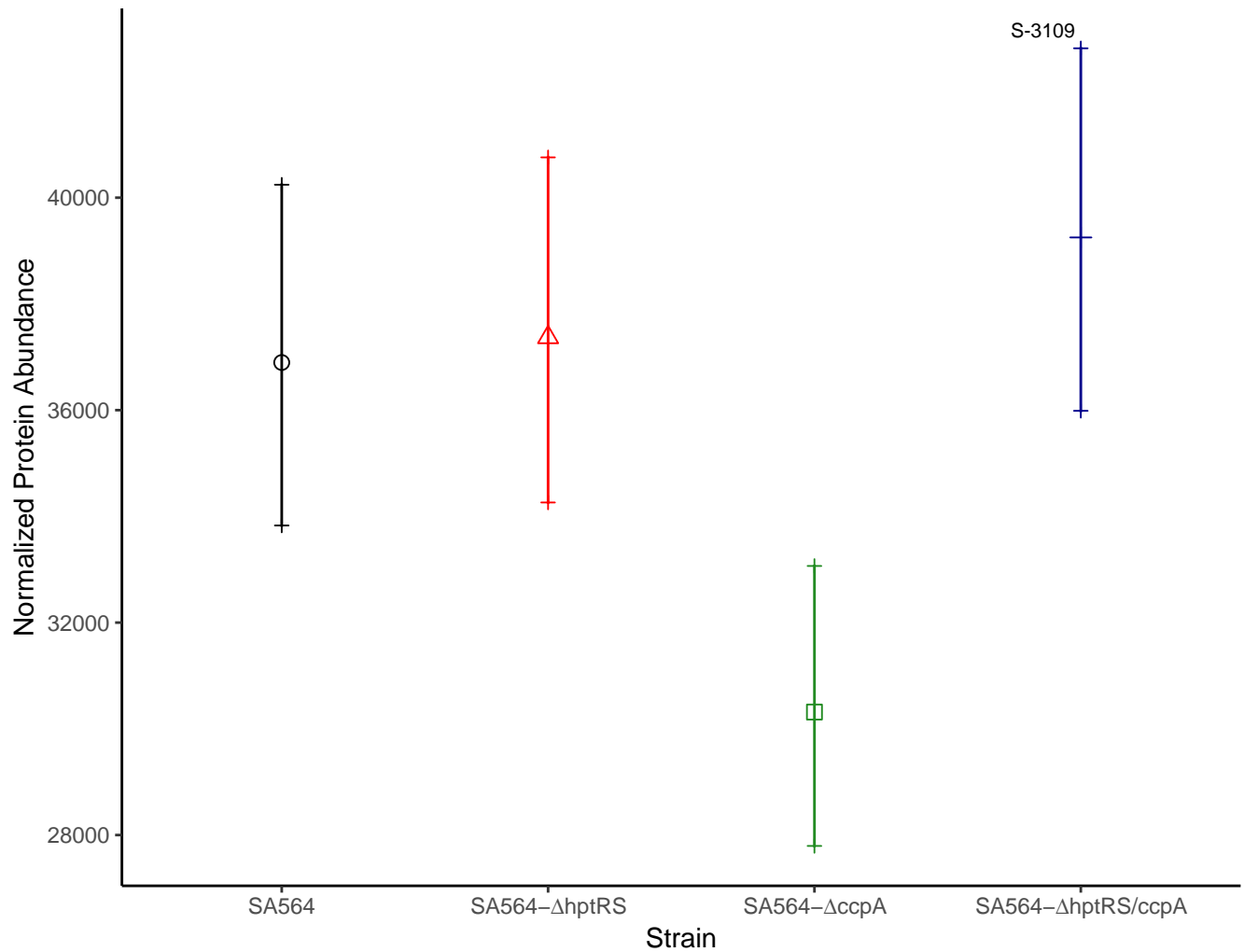
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EFTU\_STAAM



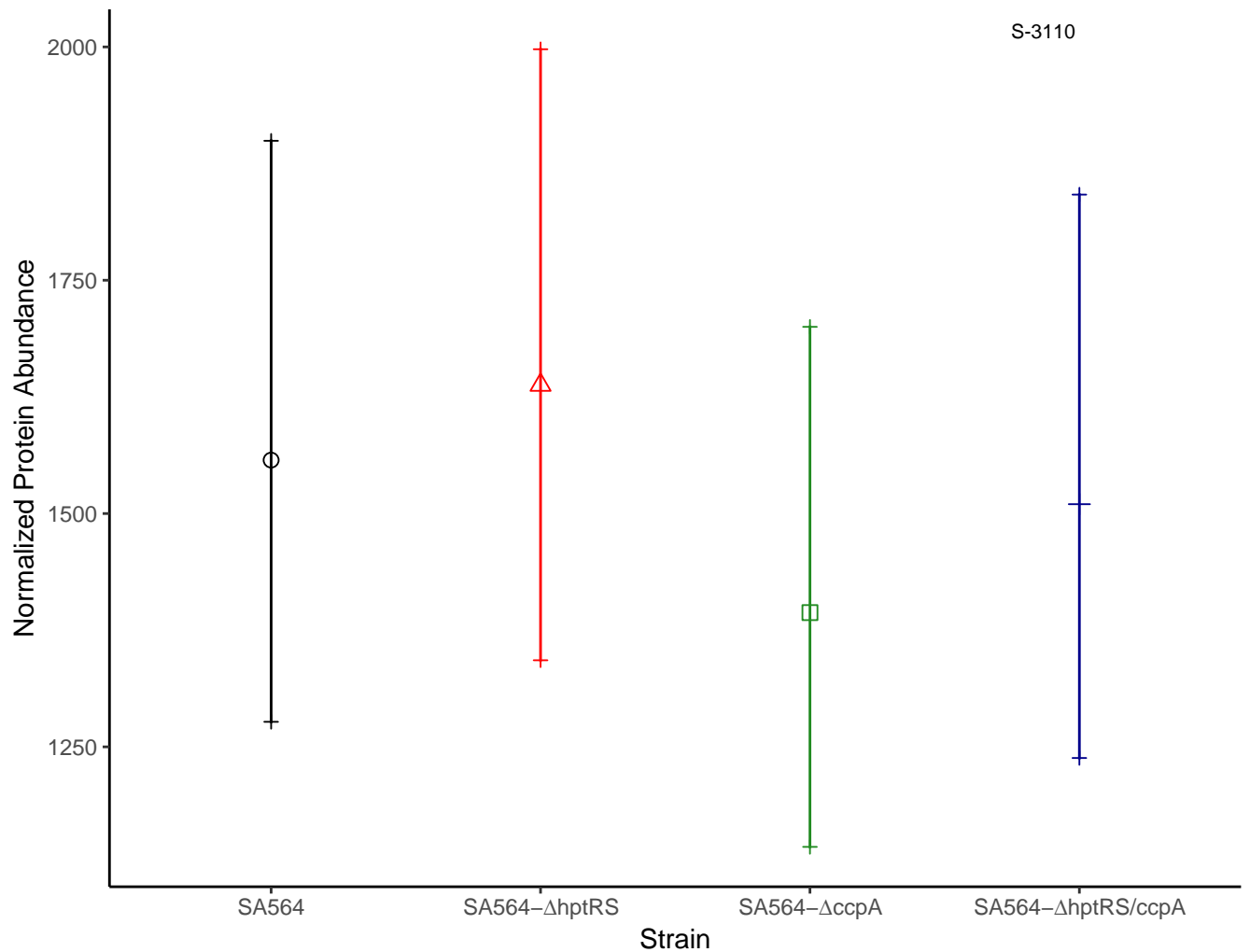
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ENO\_STAAM



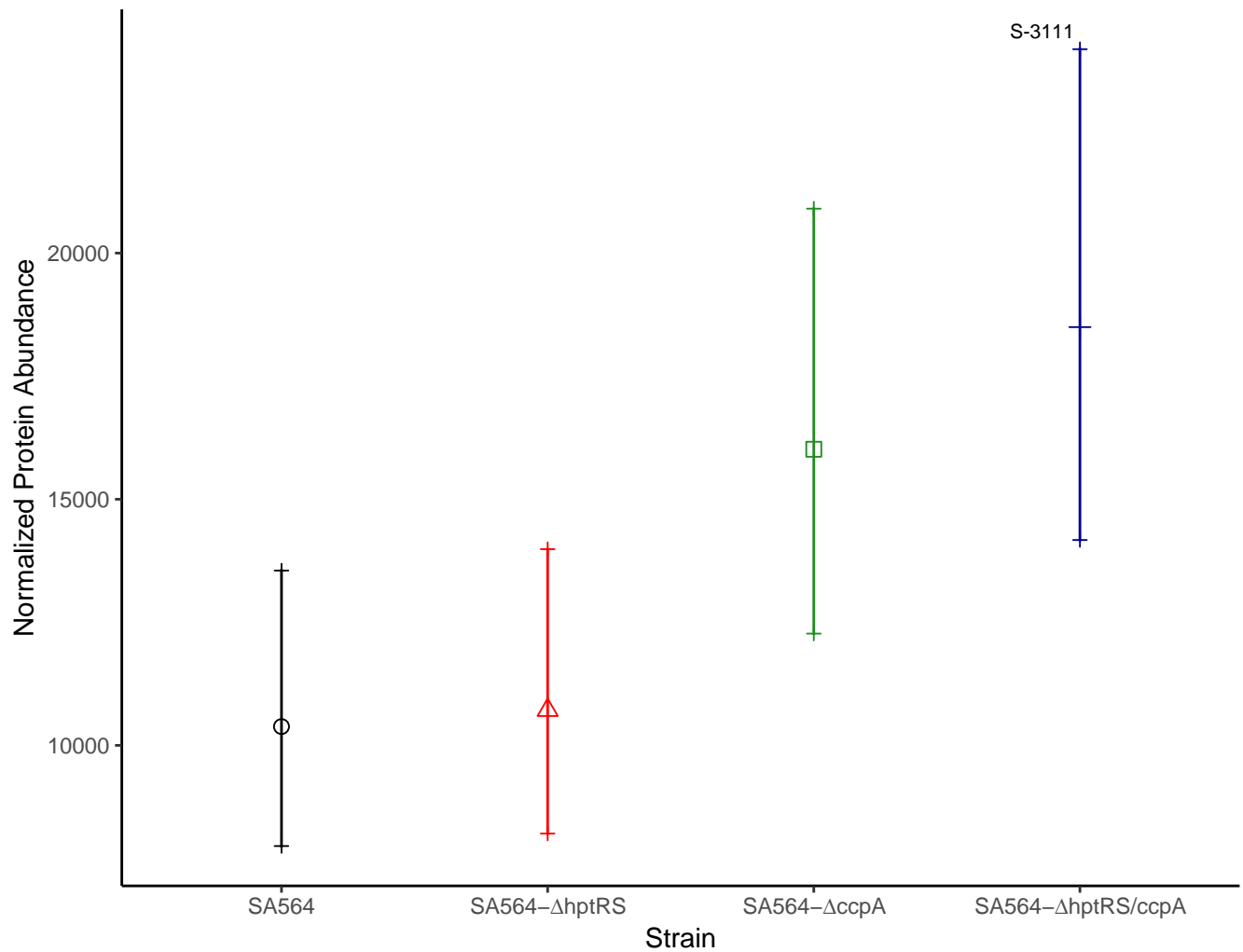
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ERA\_STAAM



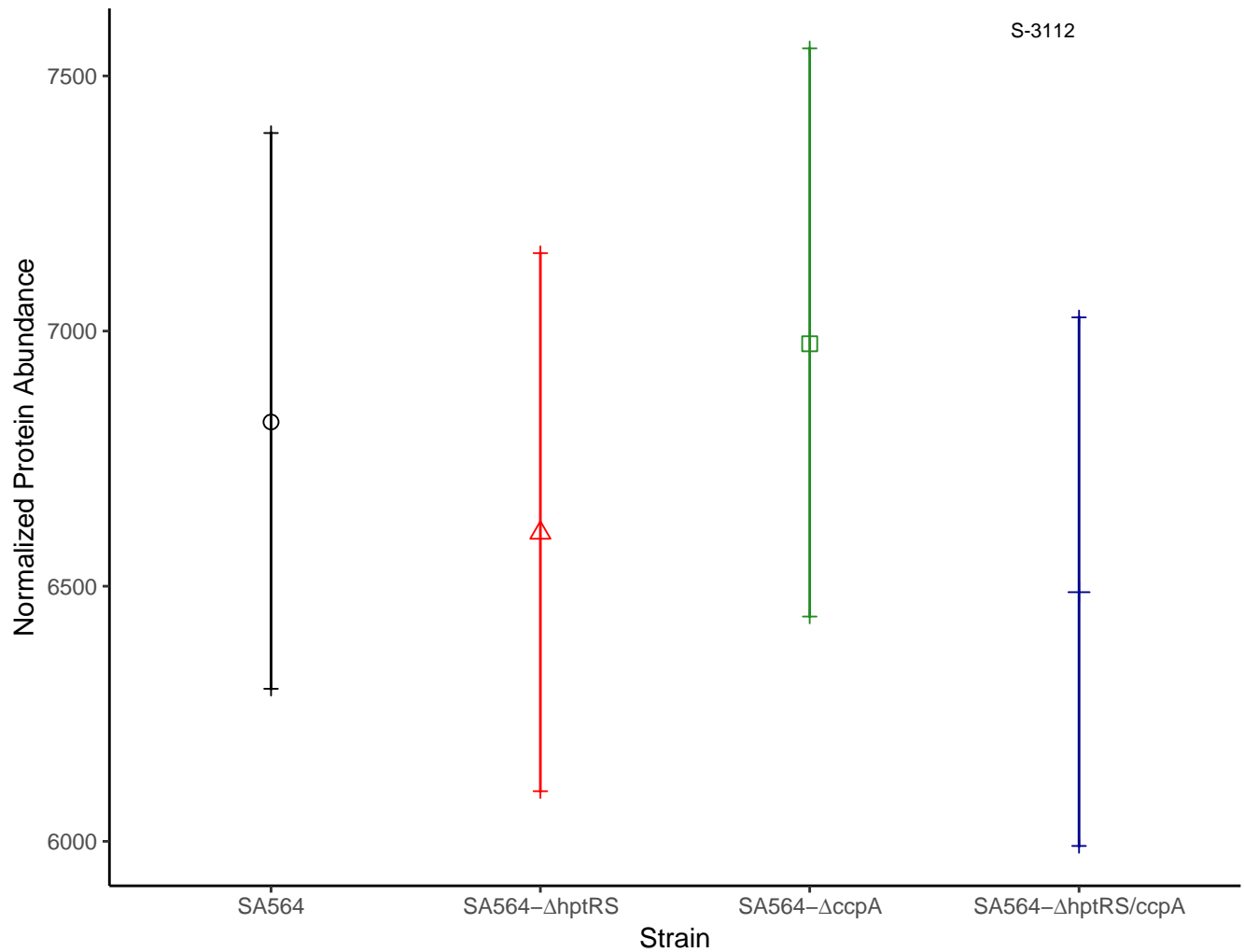
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ERMA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

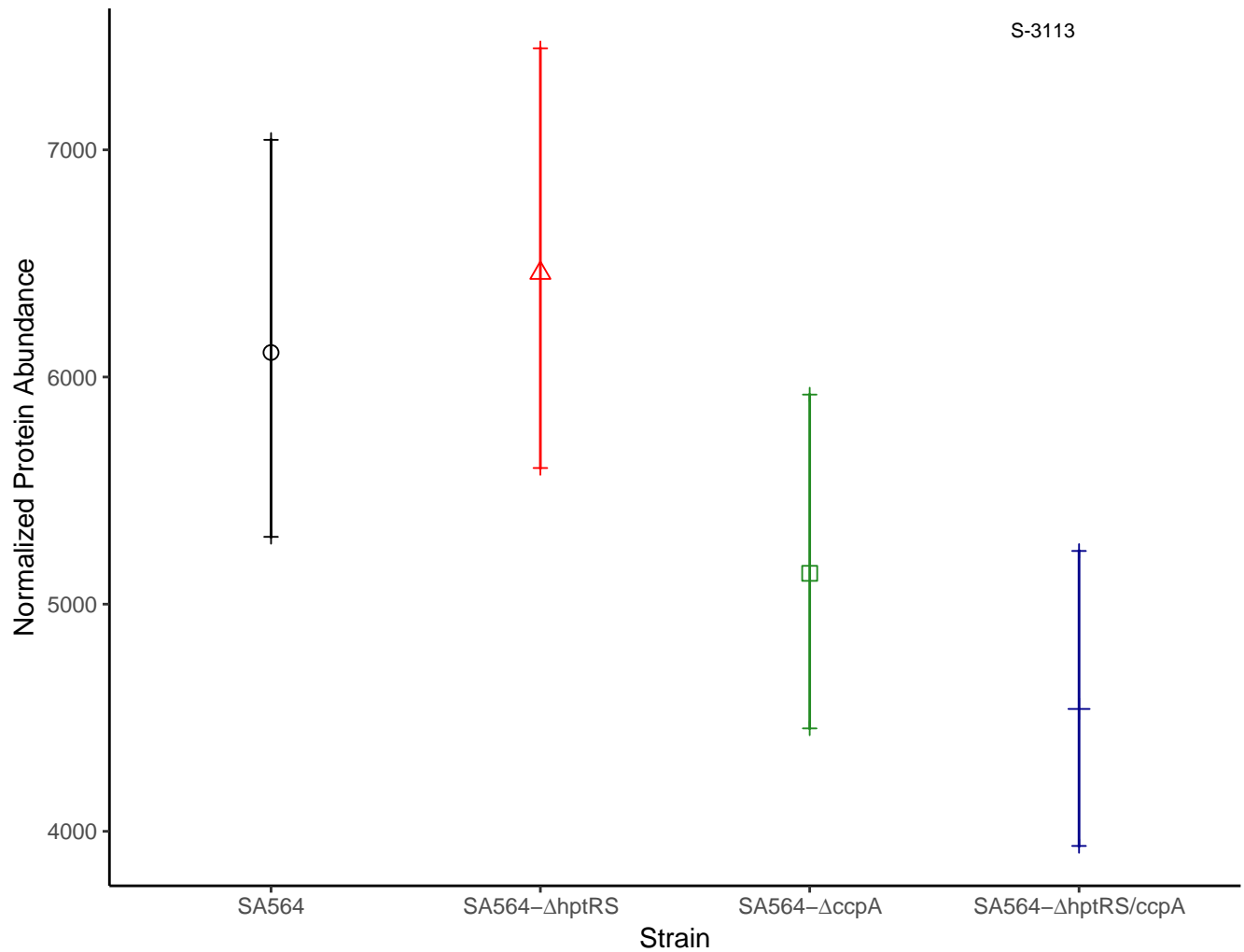
# ESSA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

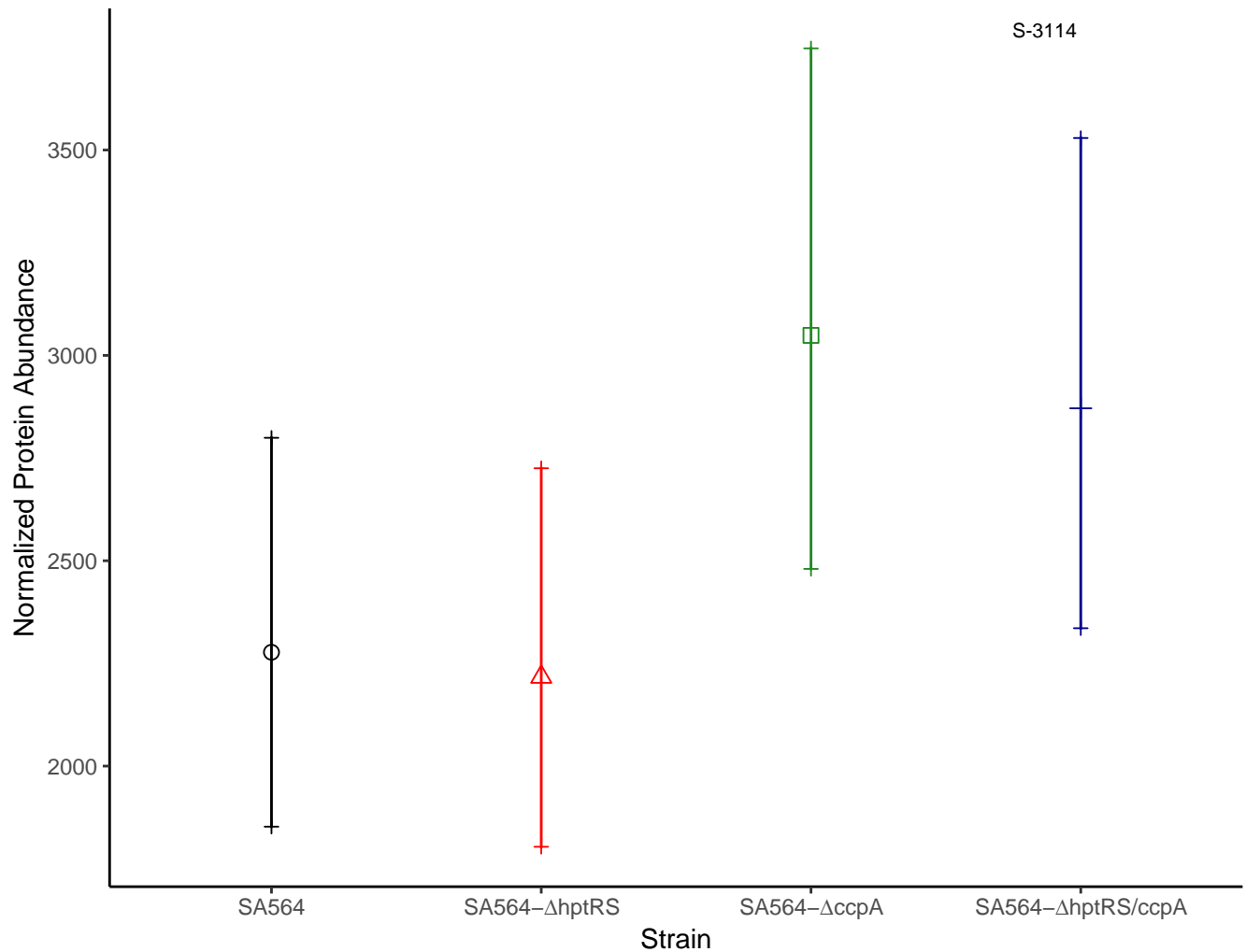


# ESXA\_STAAM



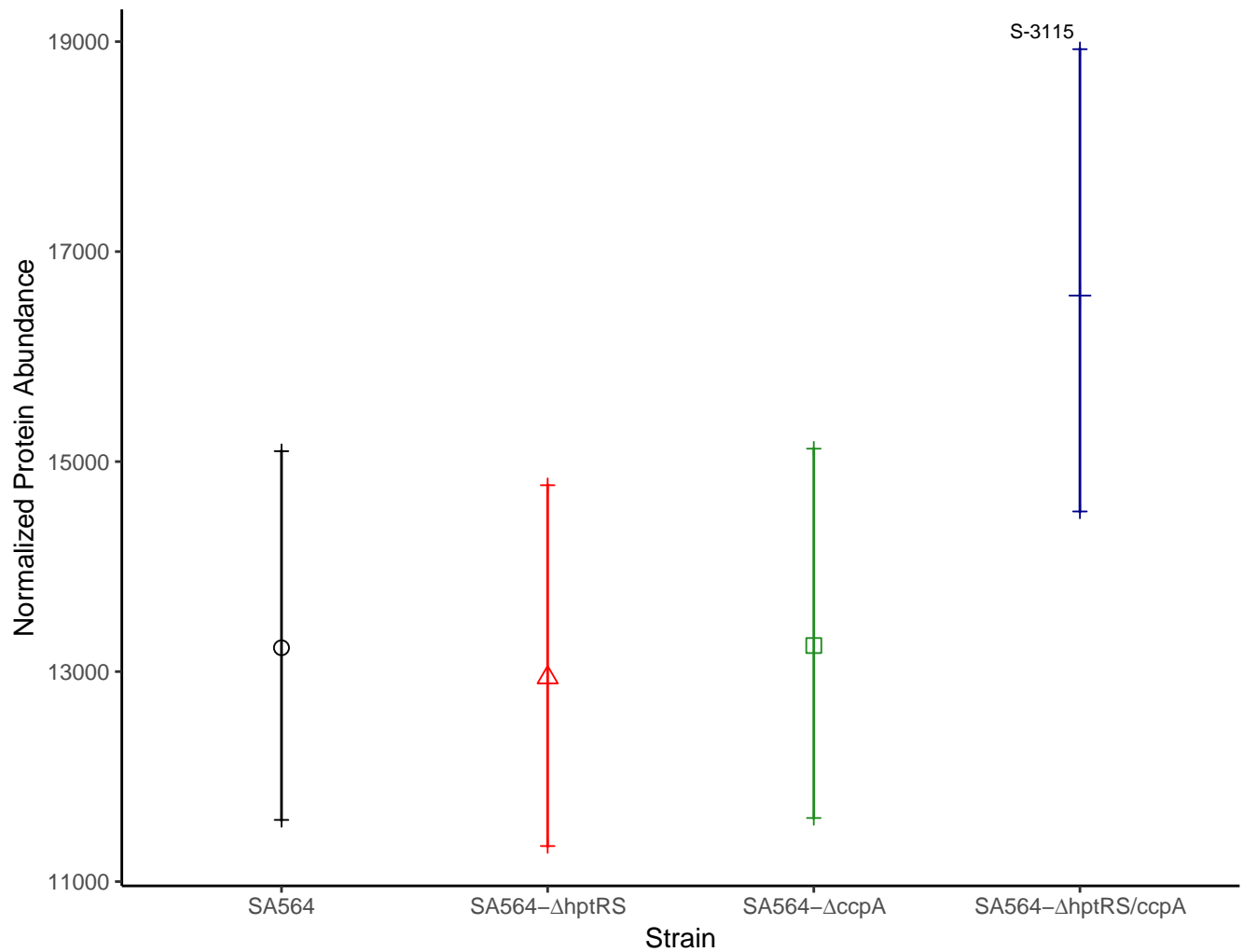
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EX7L\_STAAM



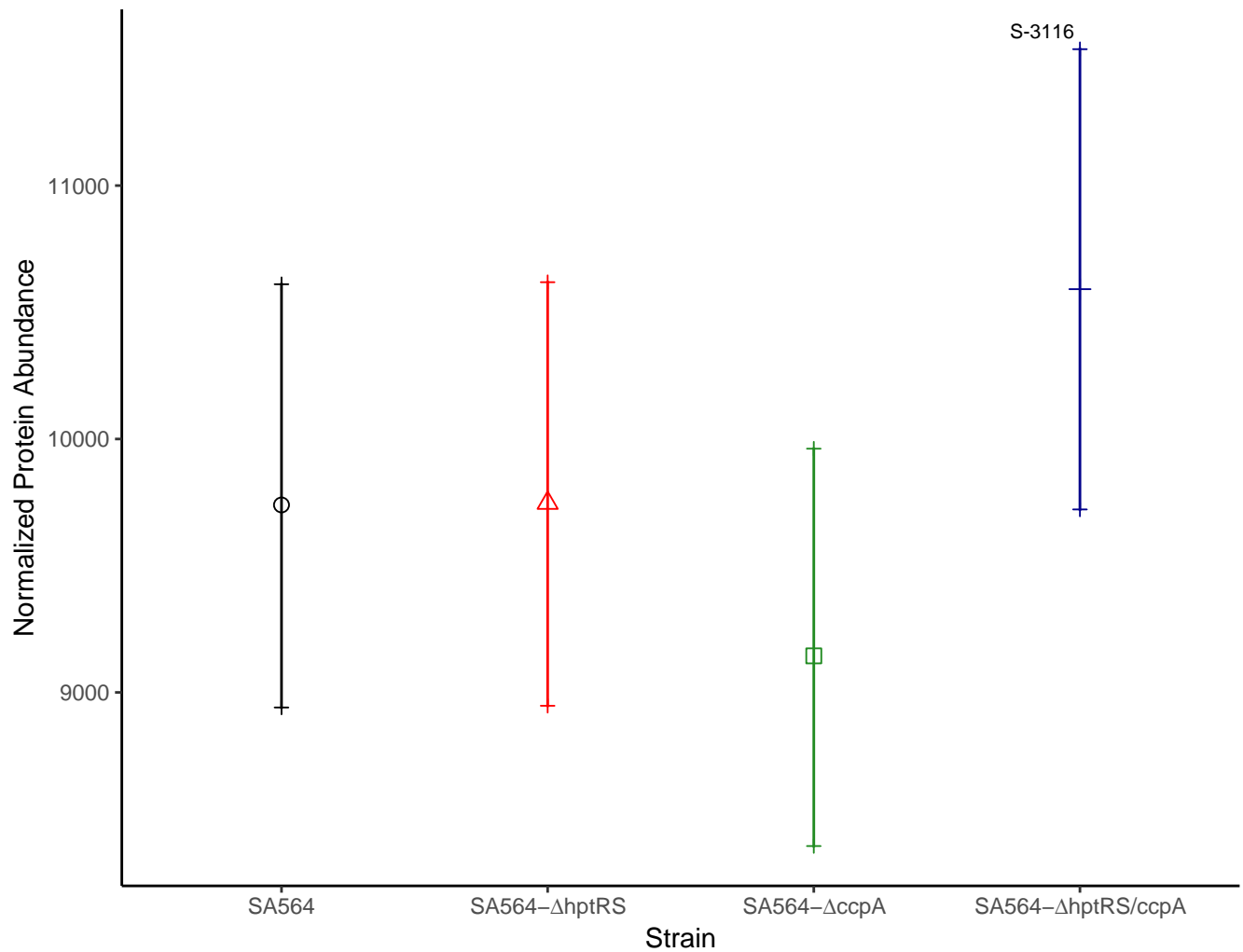
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# EZRA\_STAAM



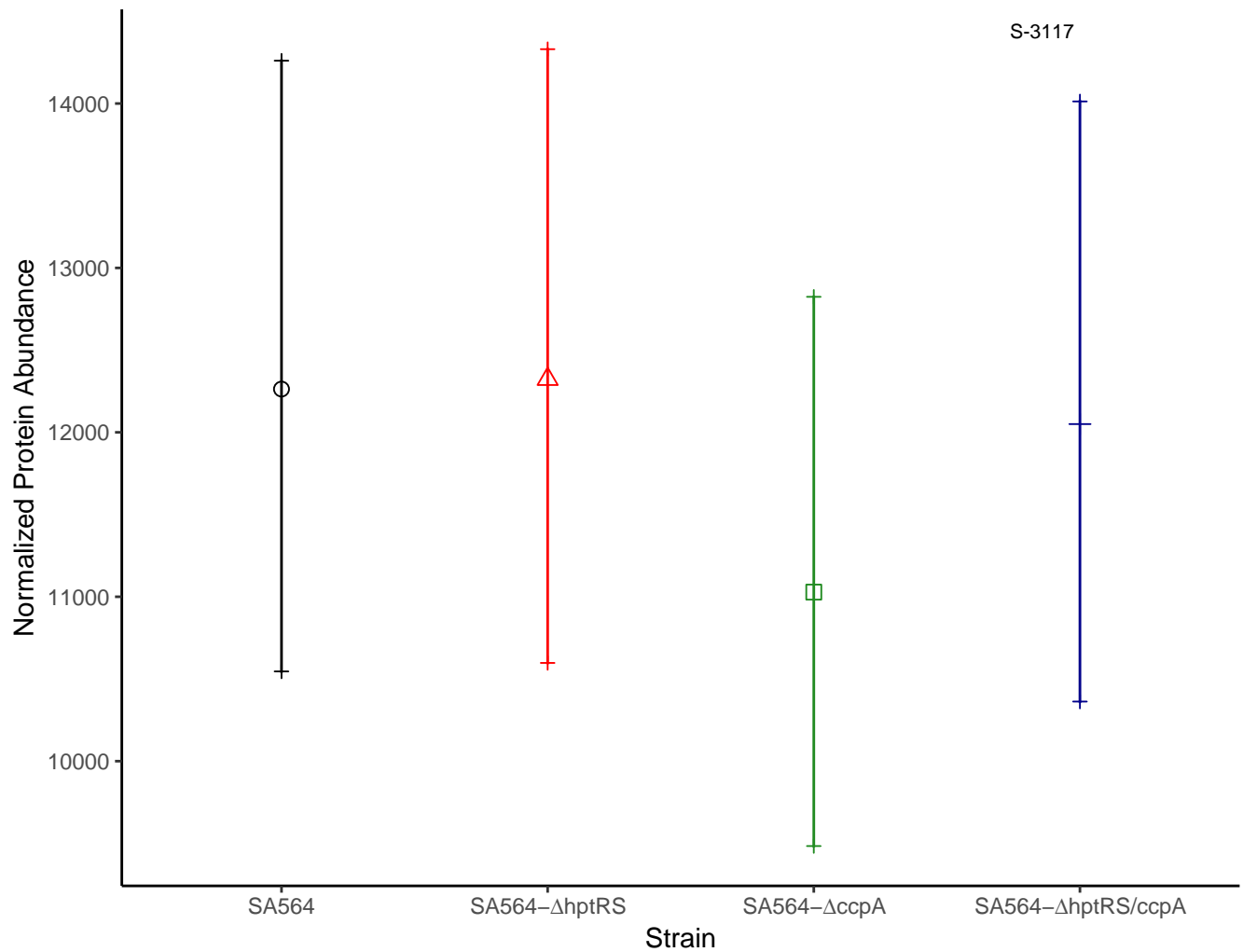
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABD\_STAAM



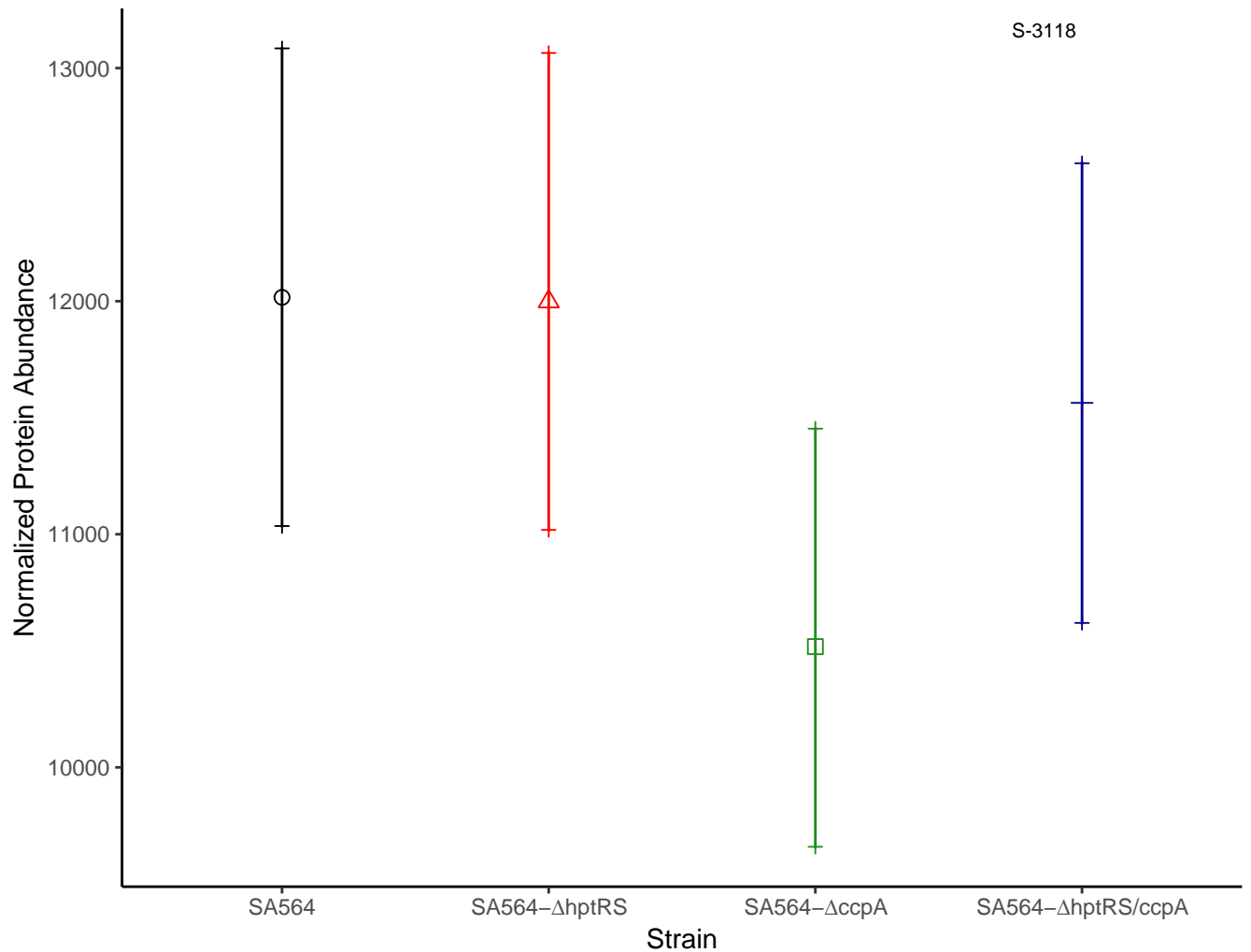
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABF\_STAAM



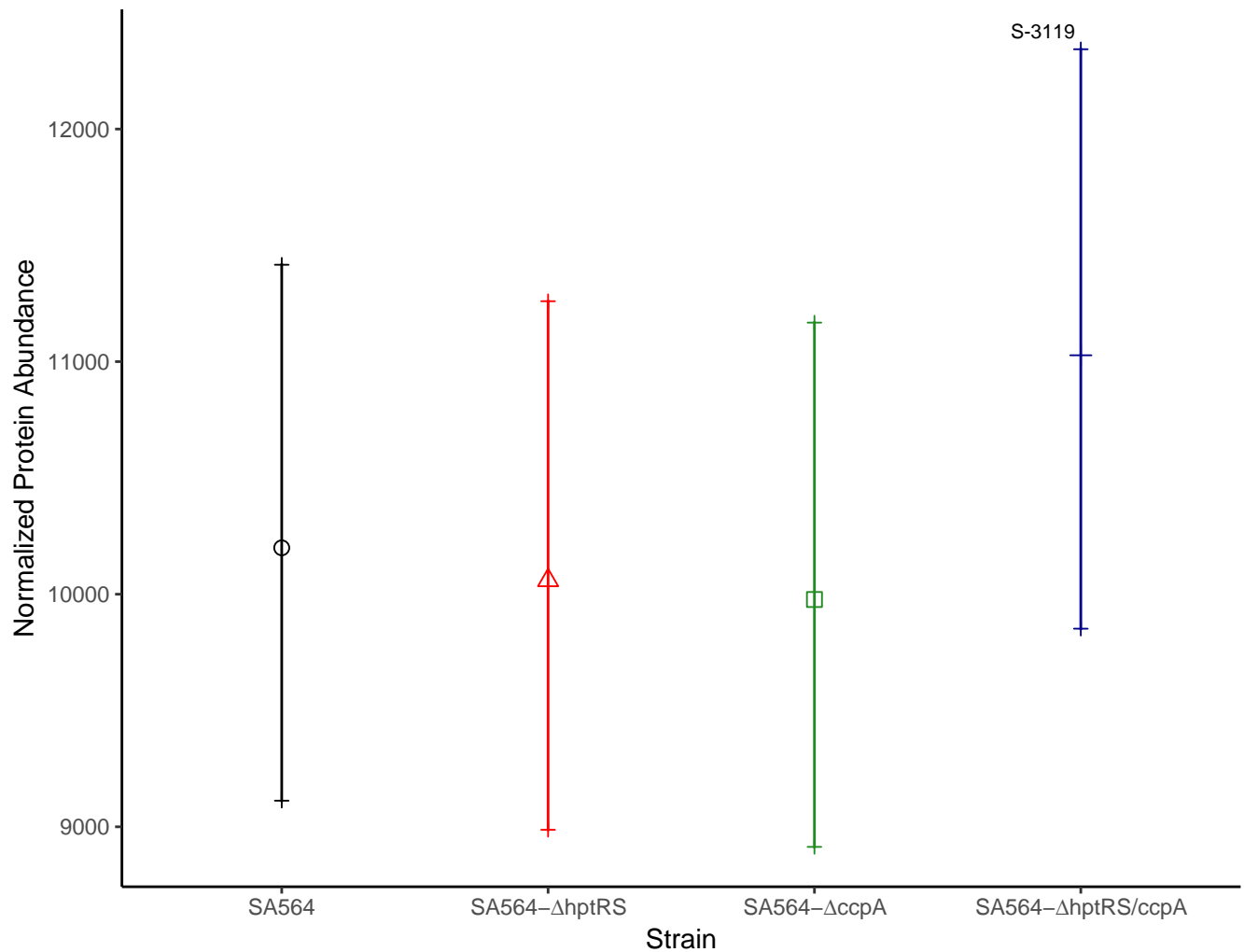
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABG\_STAAM



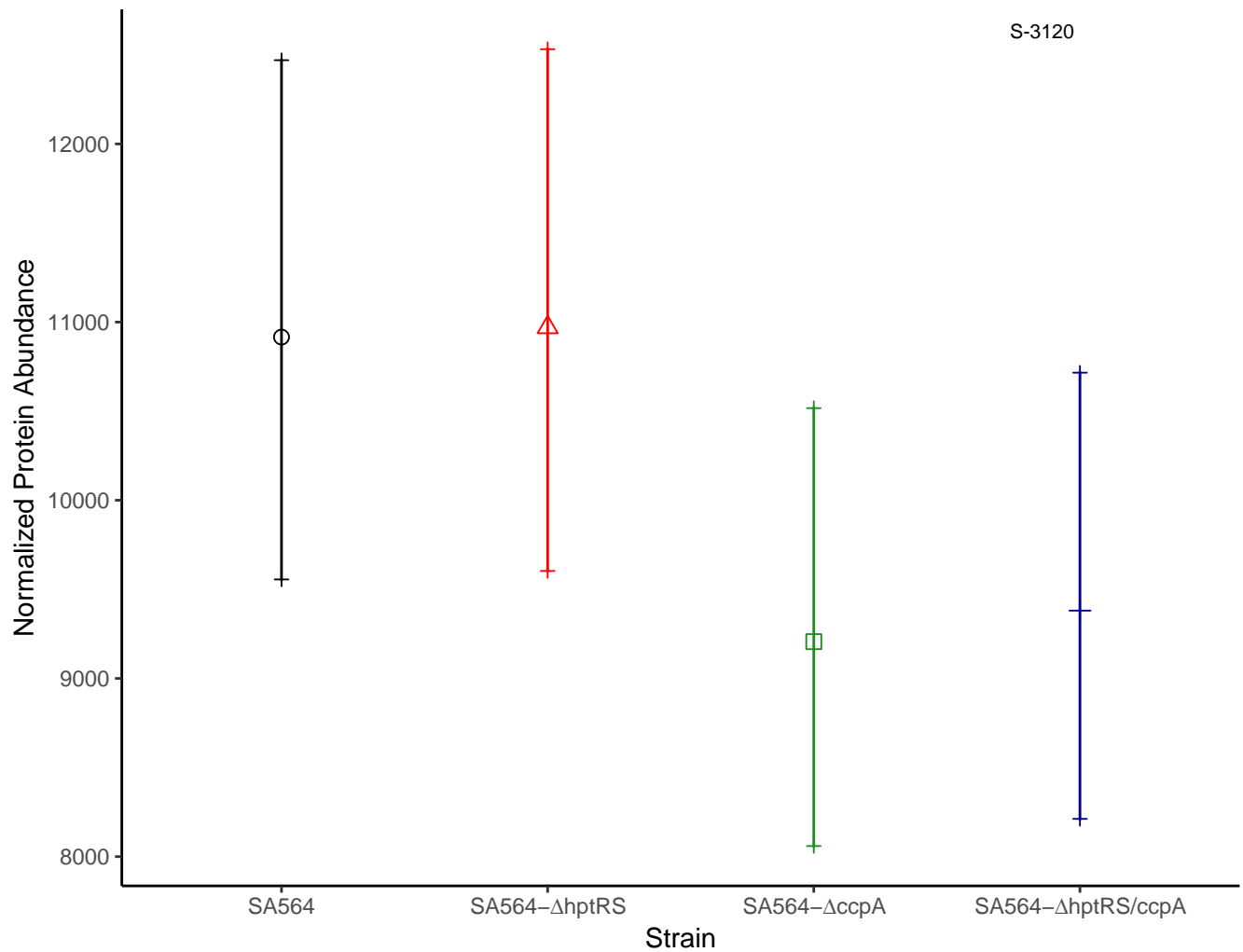
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FABH\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

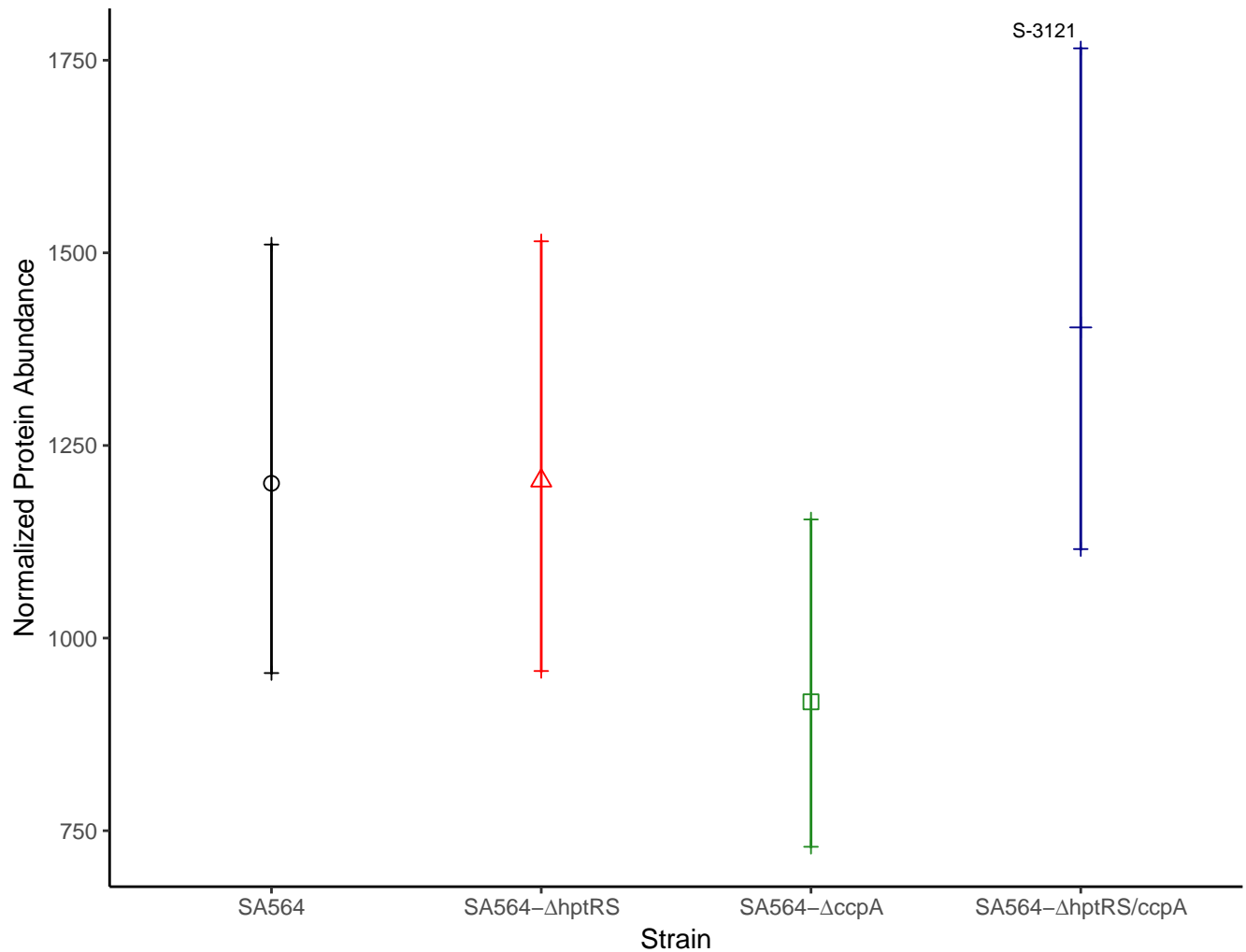
# FABZ\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

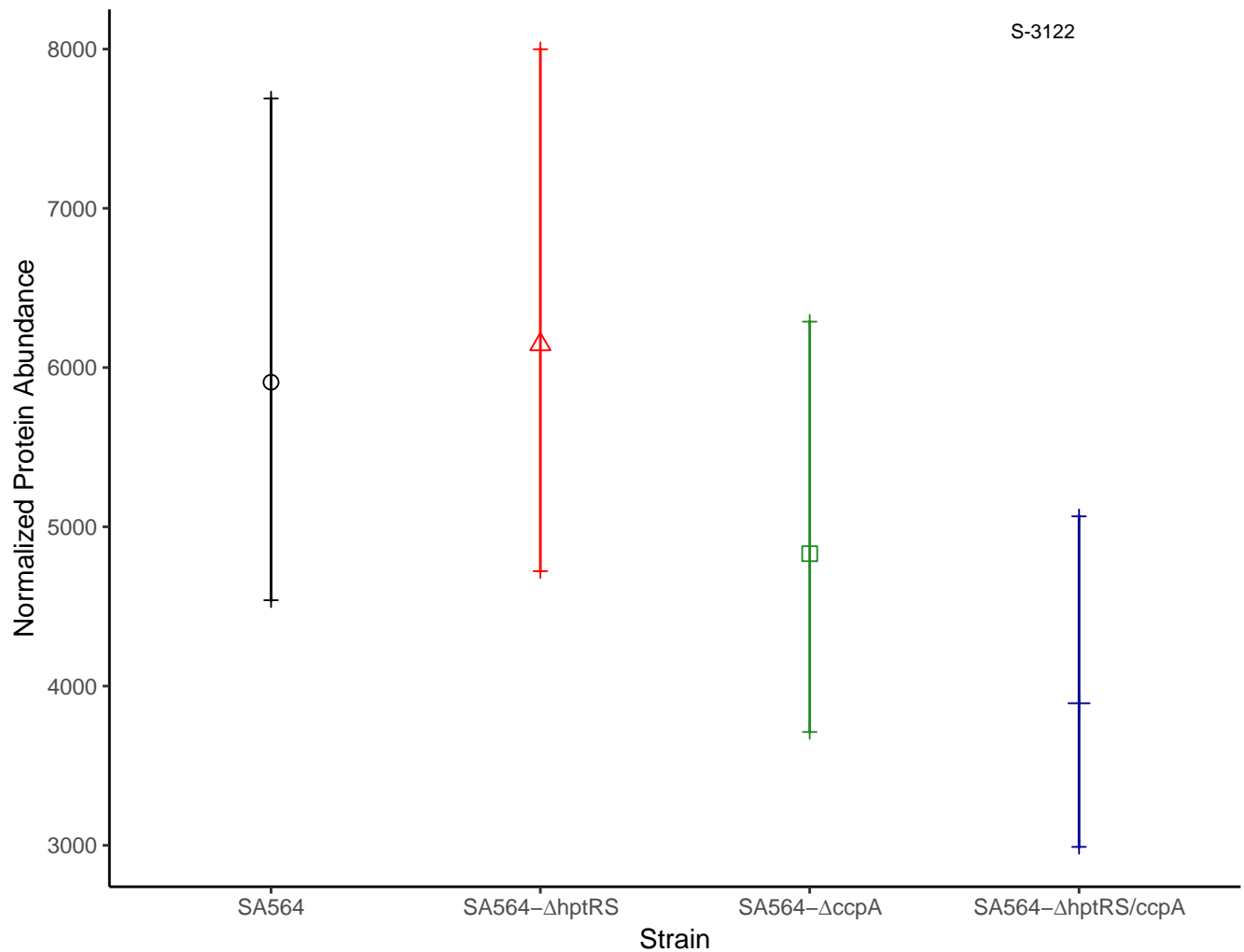


# FEMA\_STAAM



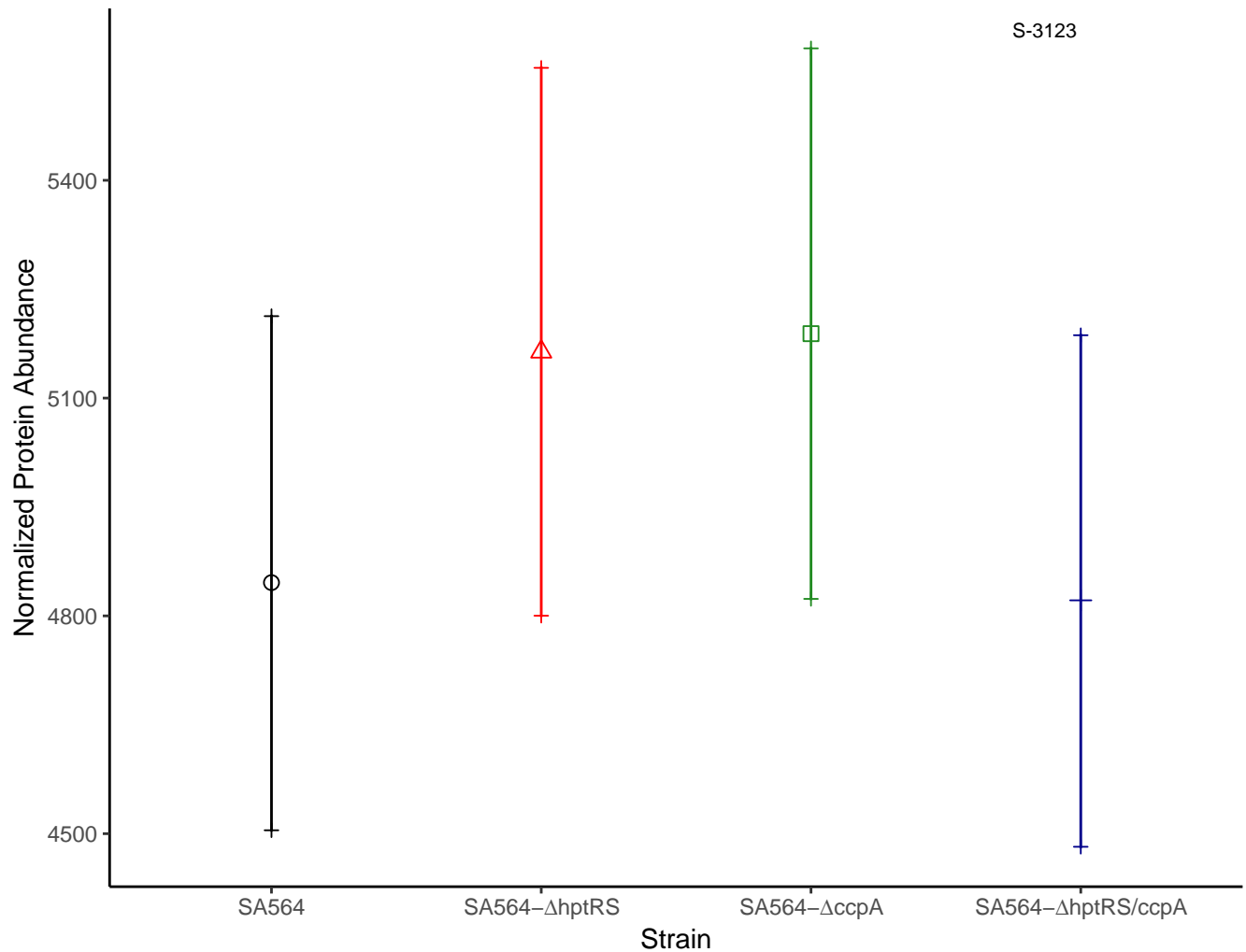
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FEMB\_STAAM



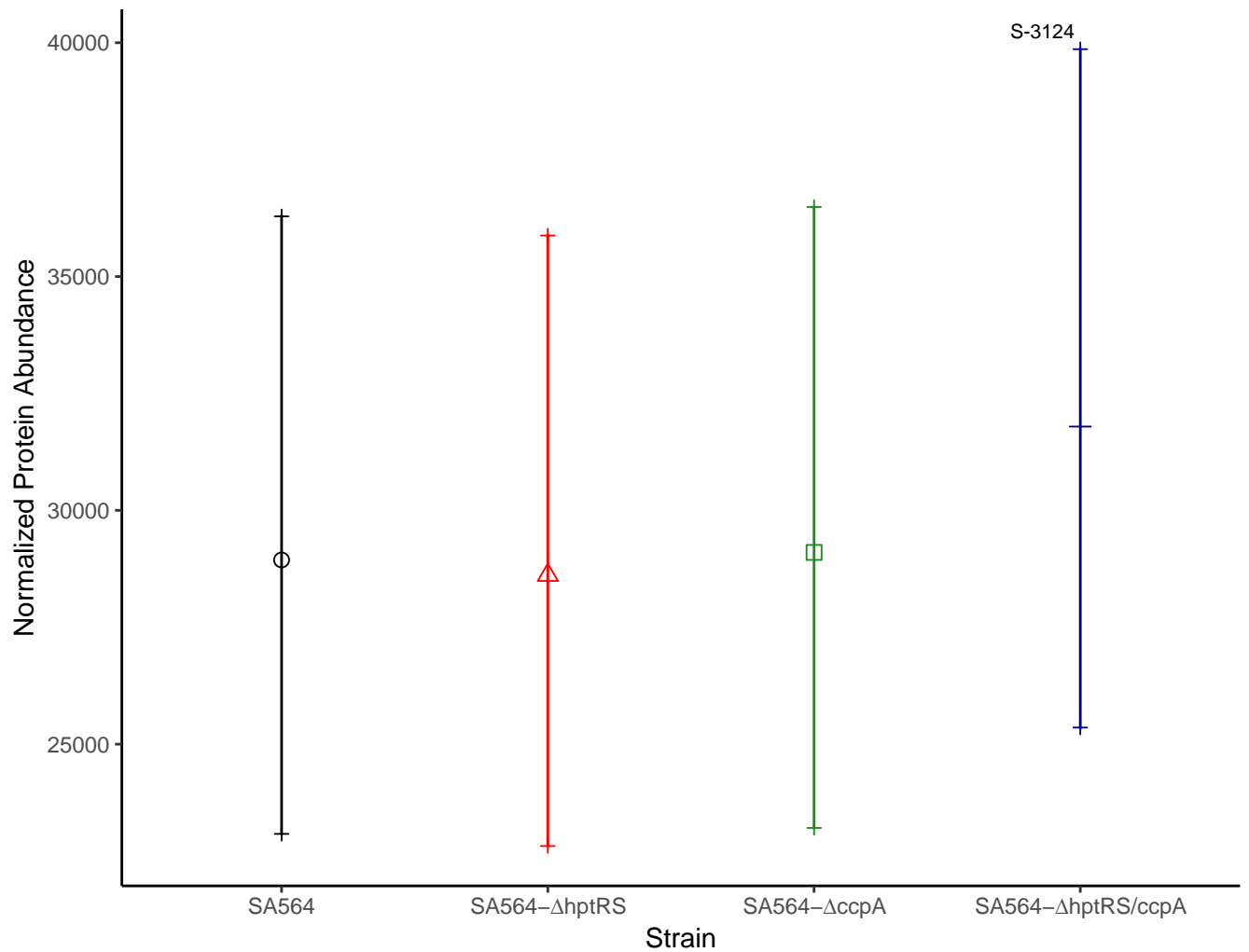
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FEMX\_STAAM



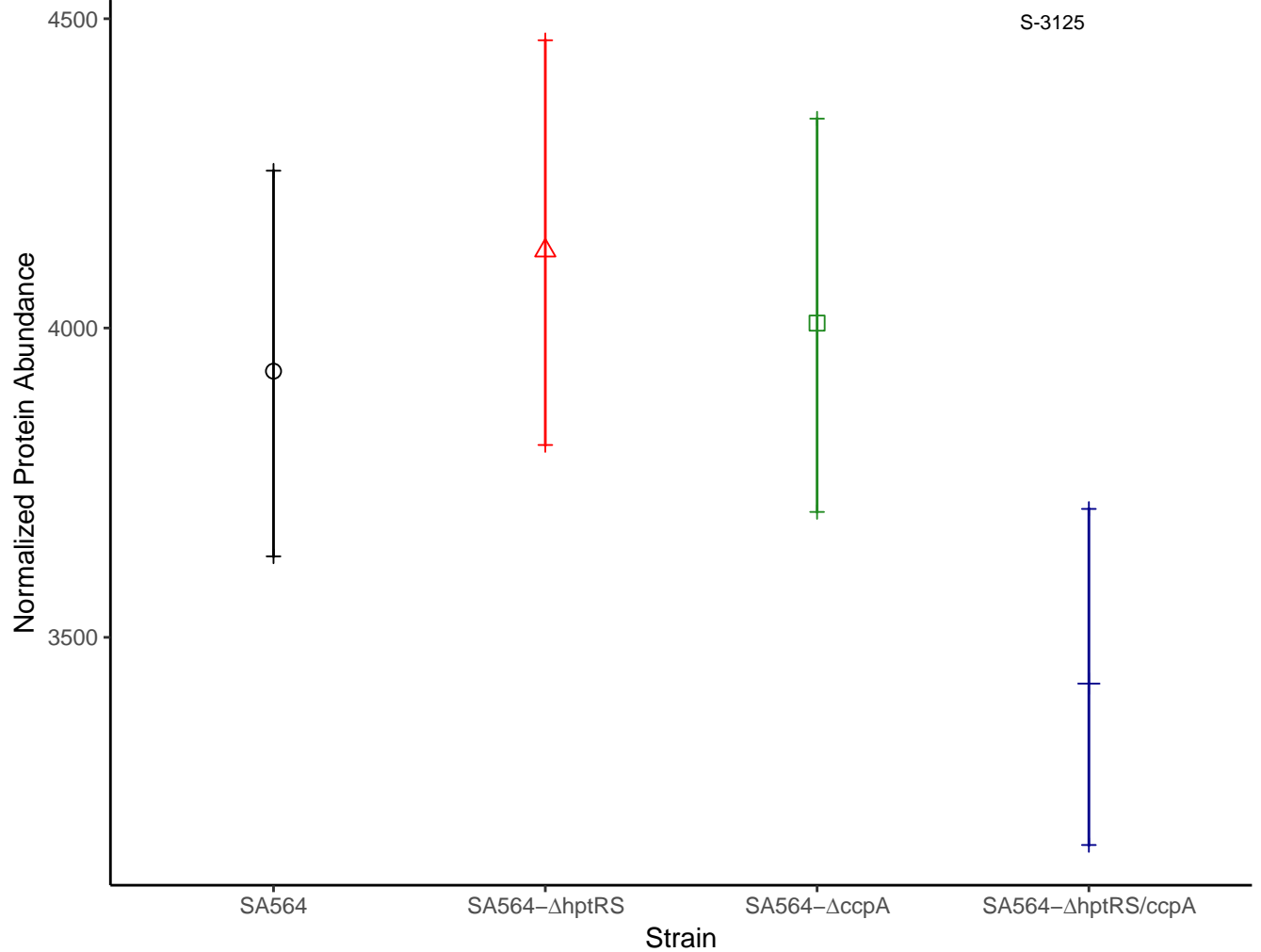
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FENR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

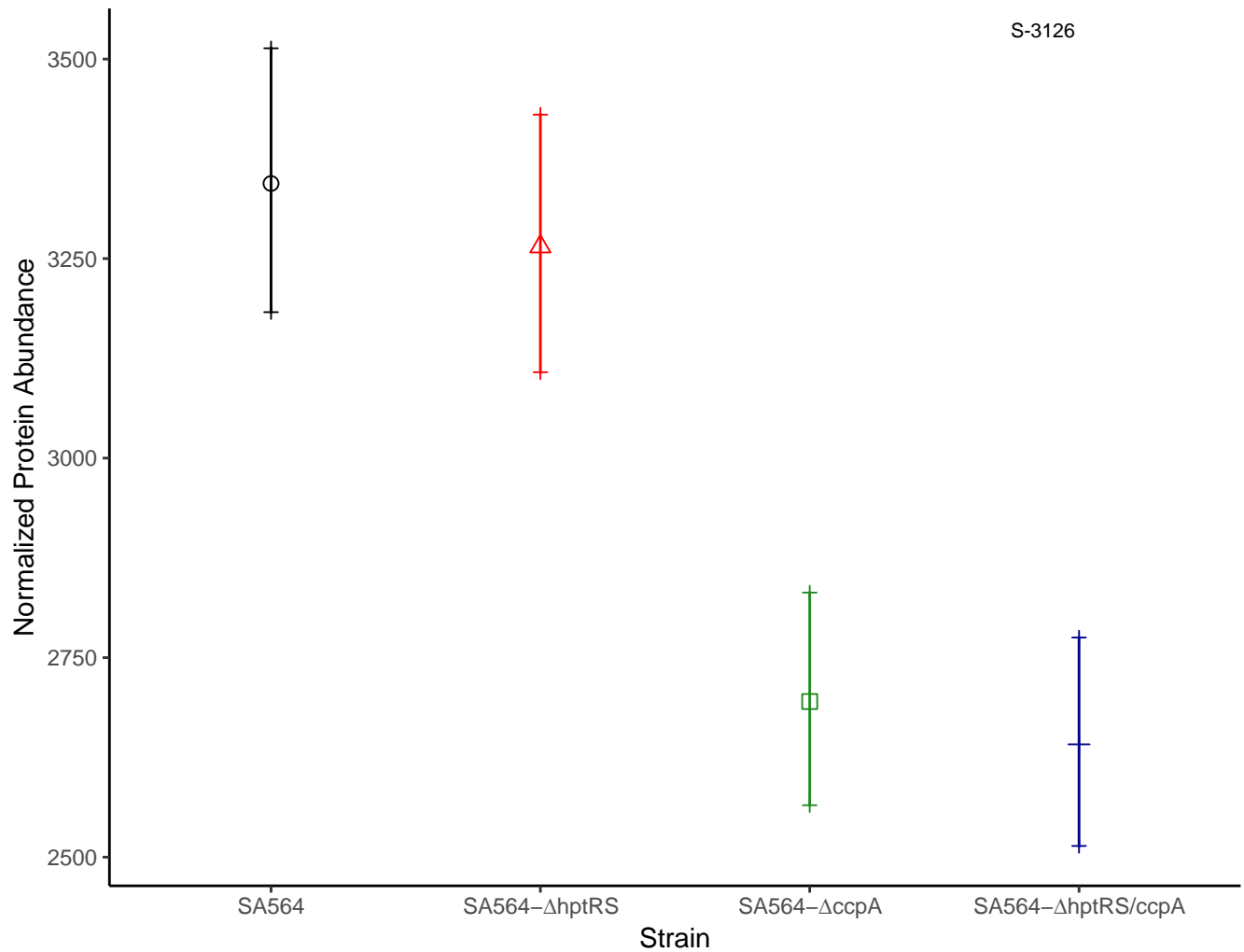
# FLIPR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

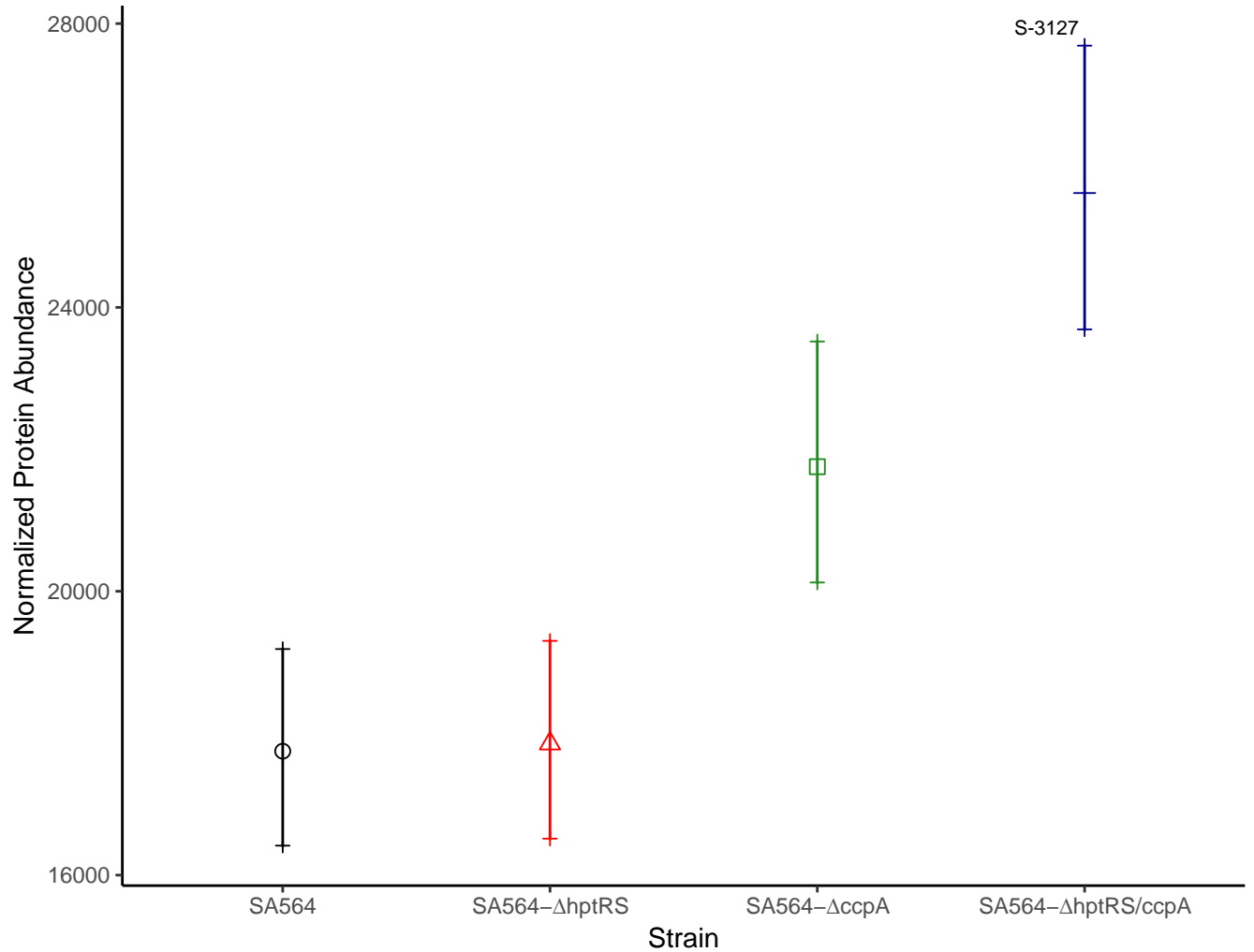
# FMT\_STAAM

S-3126



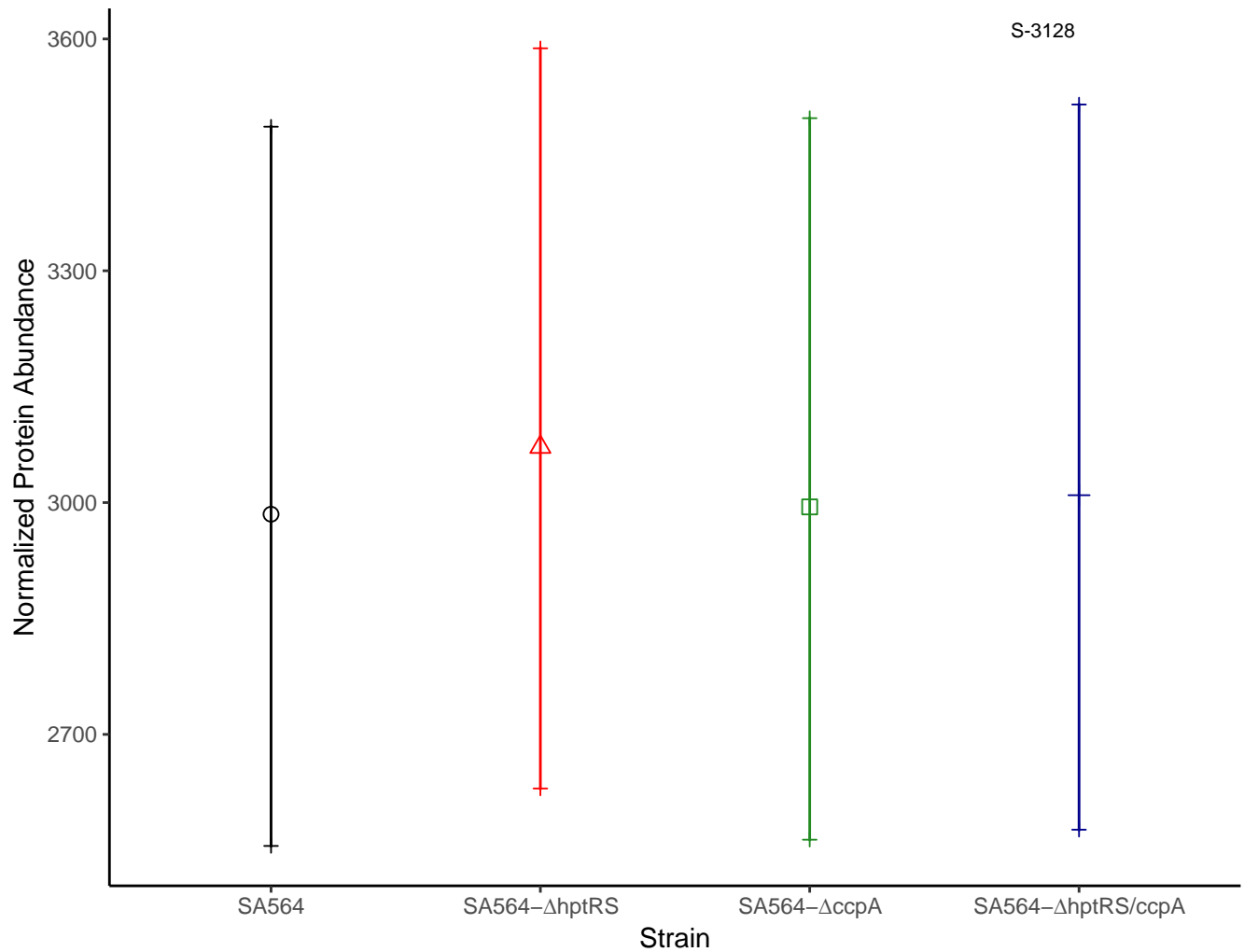
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FMTA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

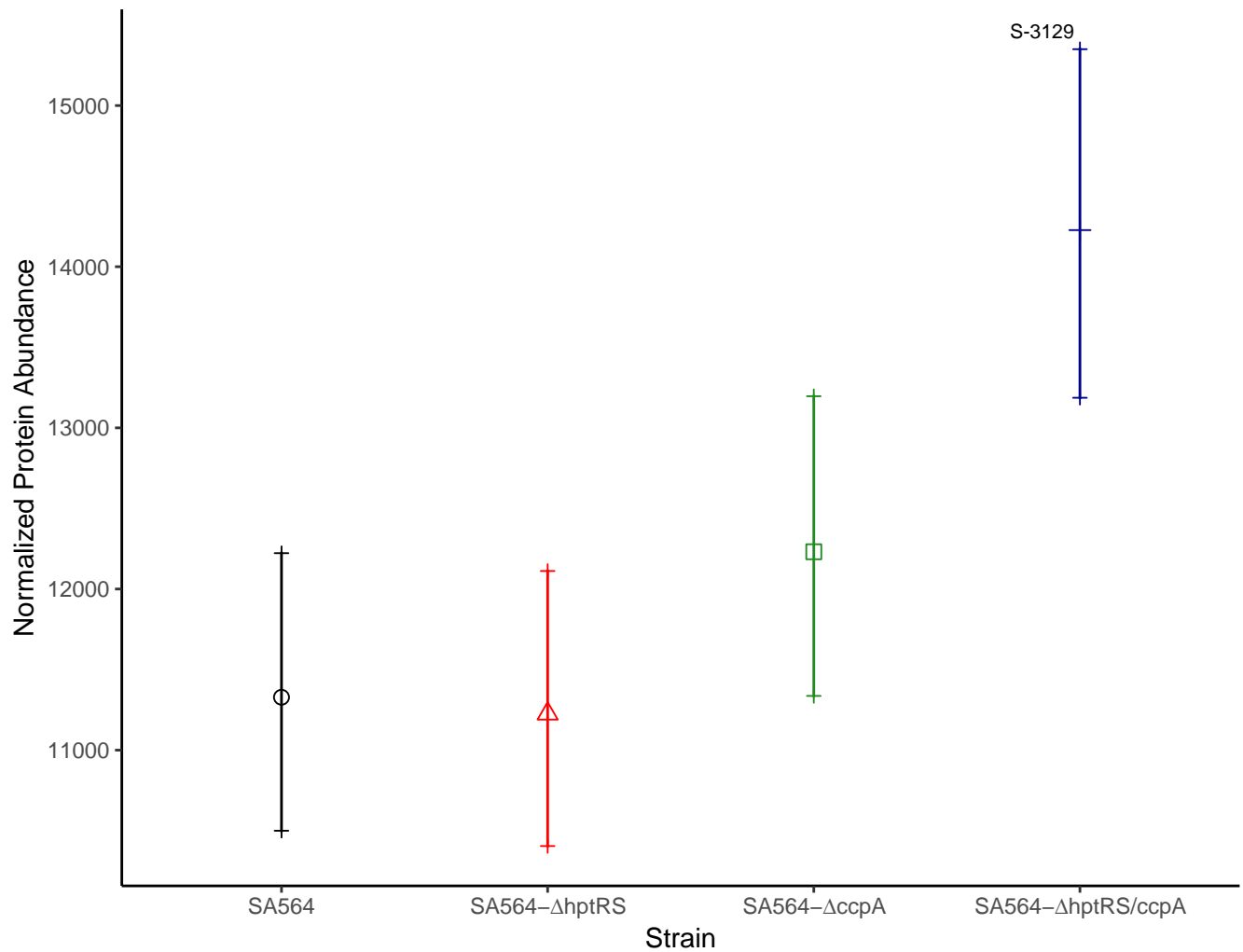
# FOLB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

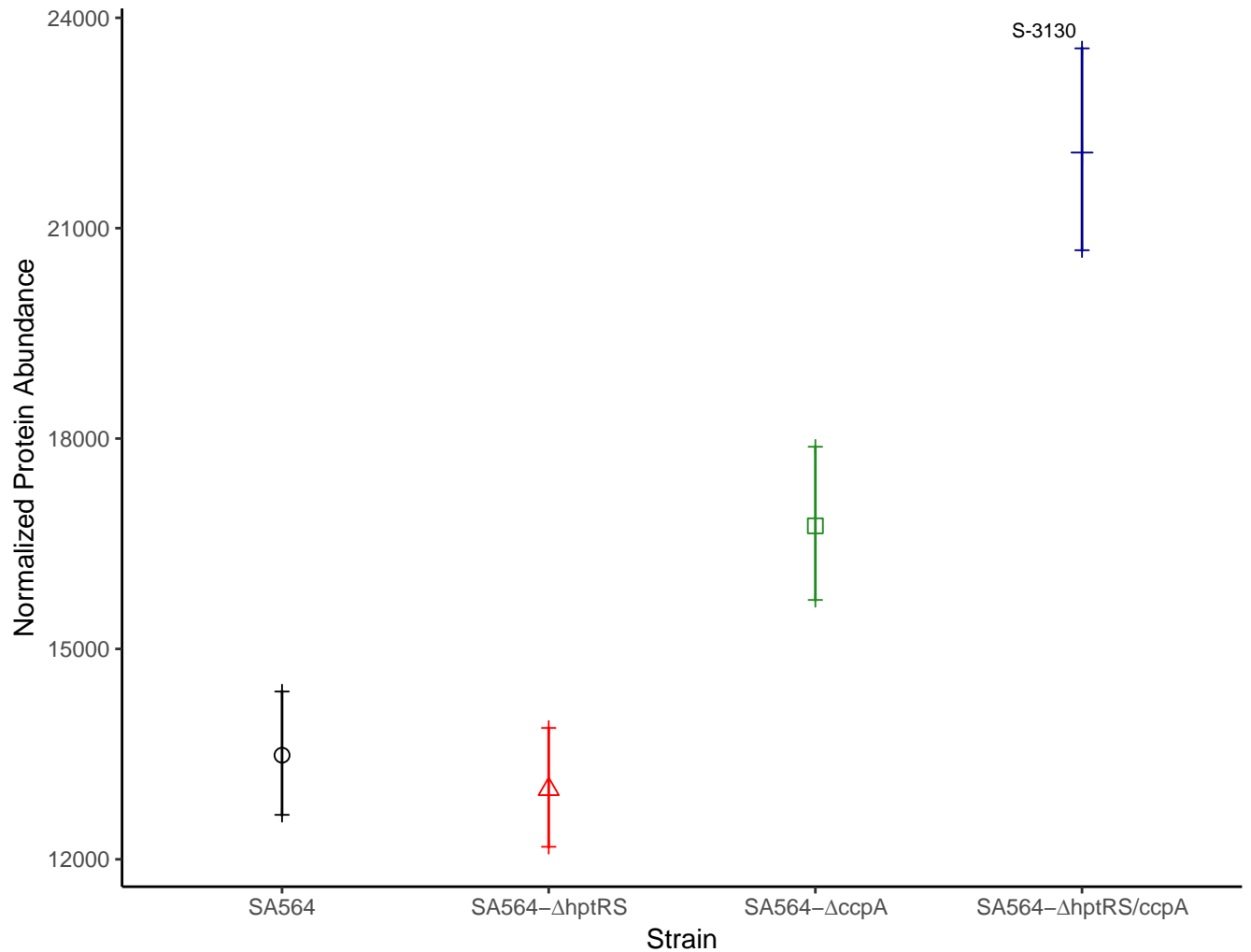


# FOLD\_STAAM



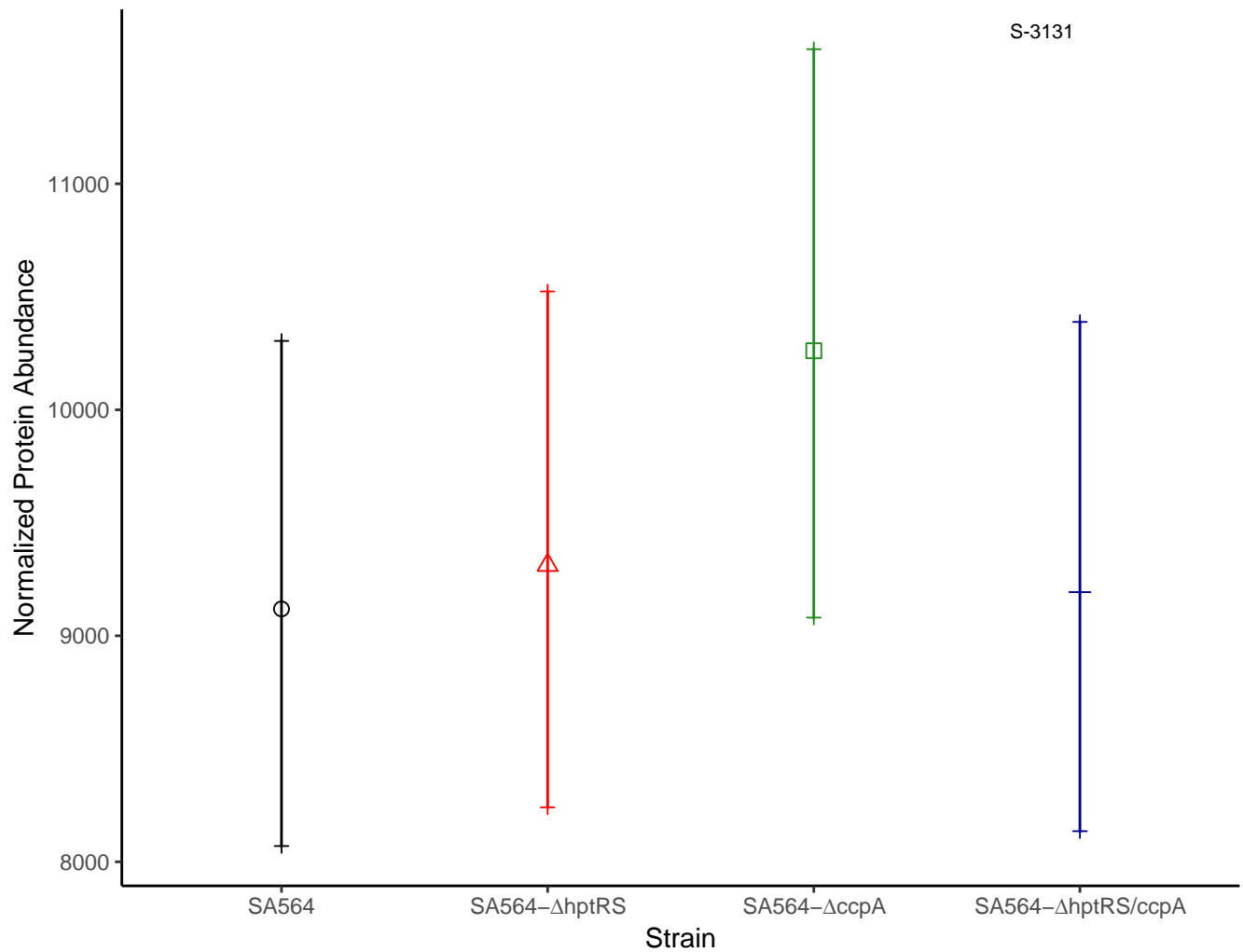
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FTHS\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

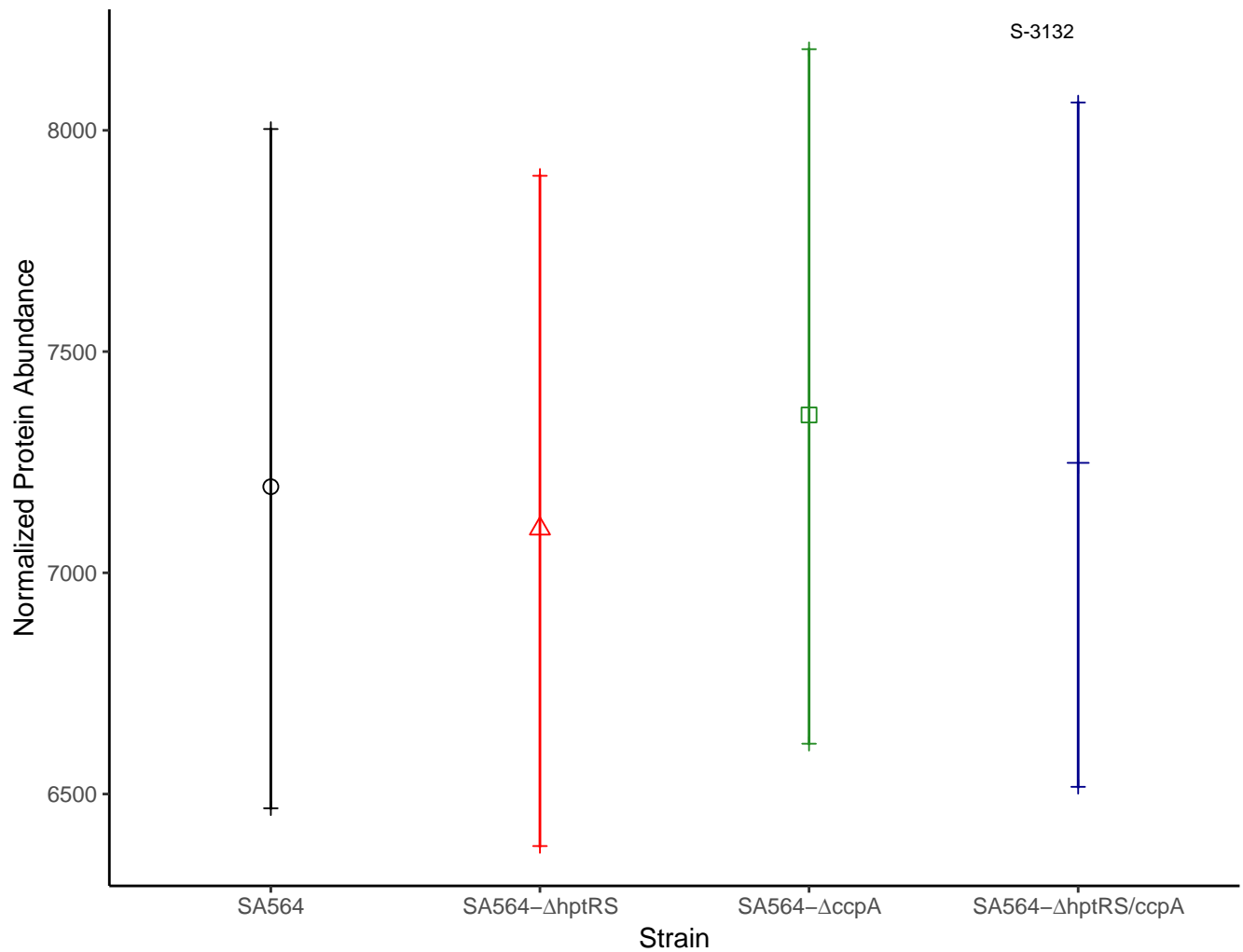
# FTN\_STAAM



S-3131

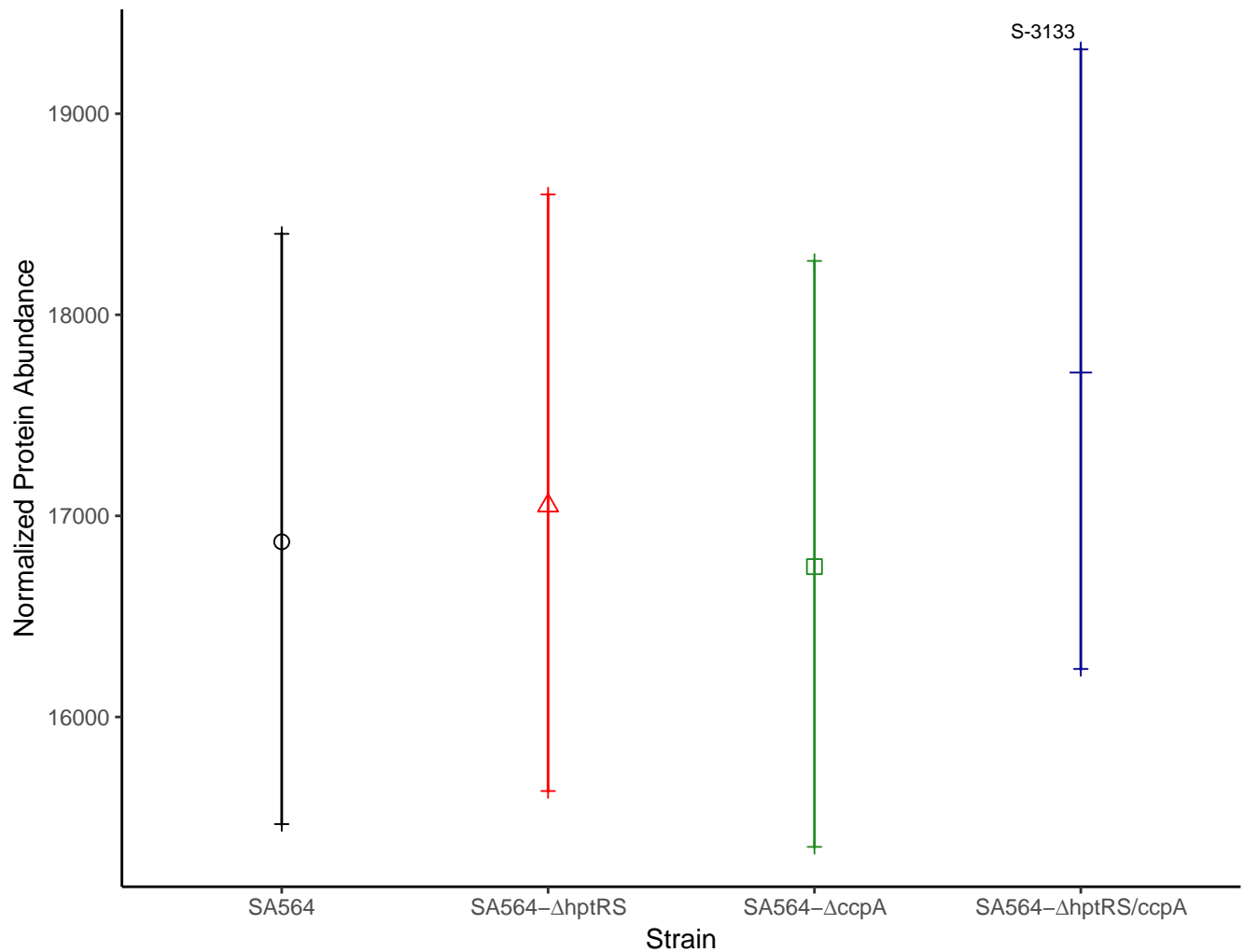
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# FTSA\_STAAM



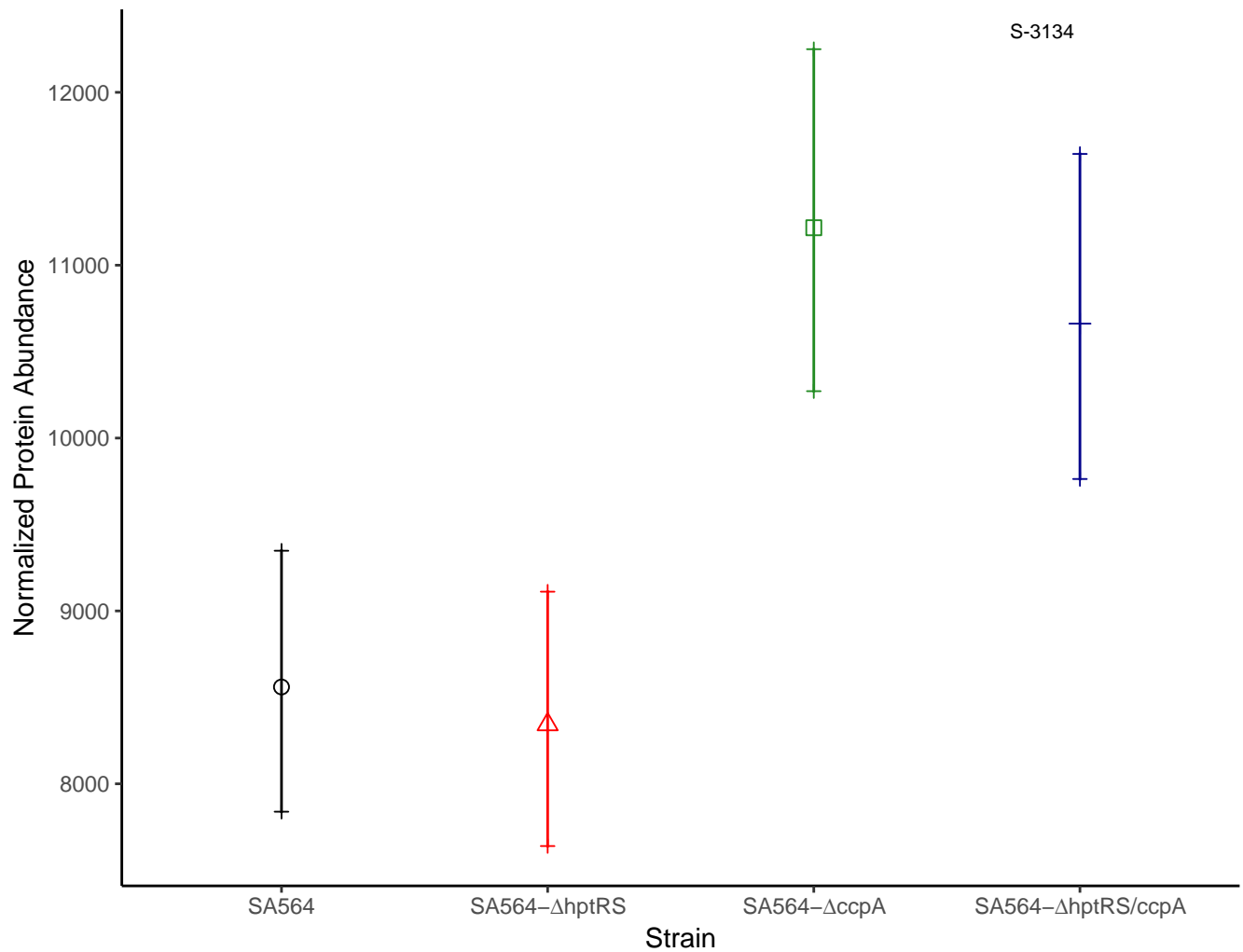
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FTSZ\_STAAM



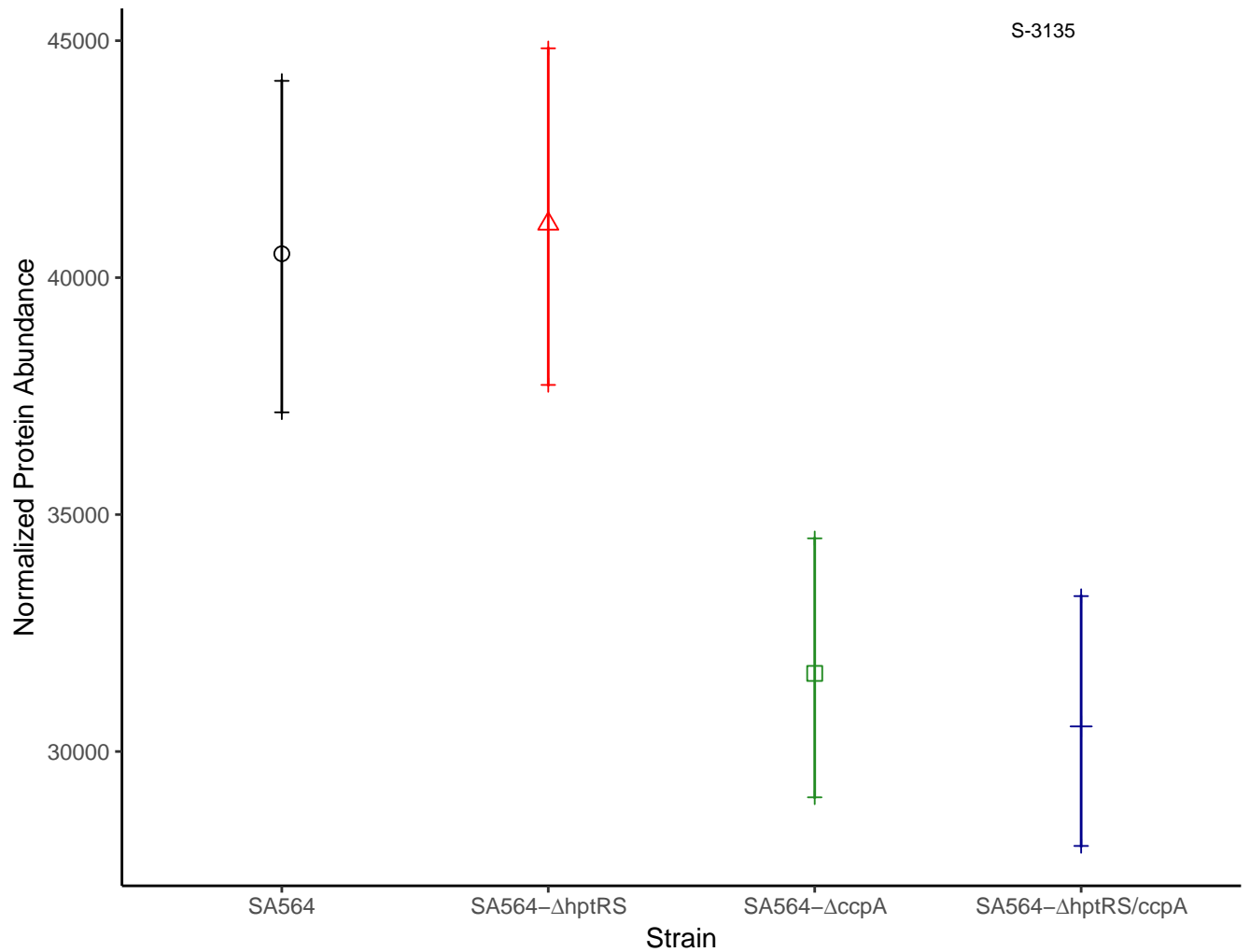
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# FUMC\_STAAM



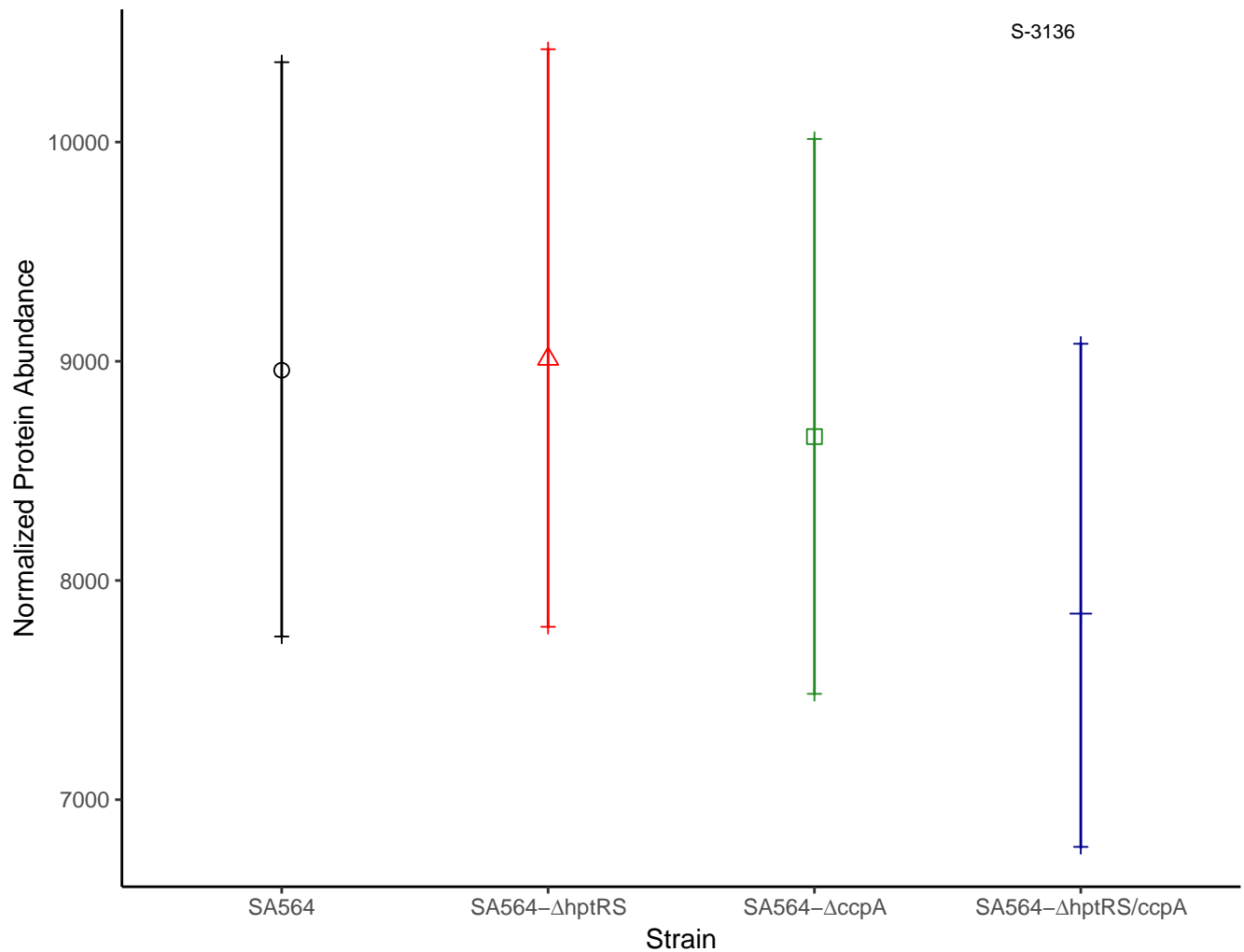
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# G3P1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

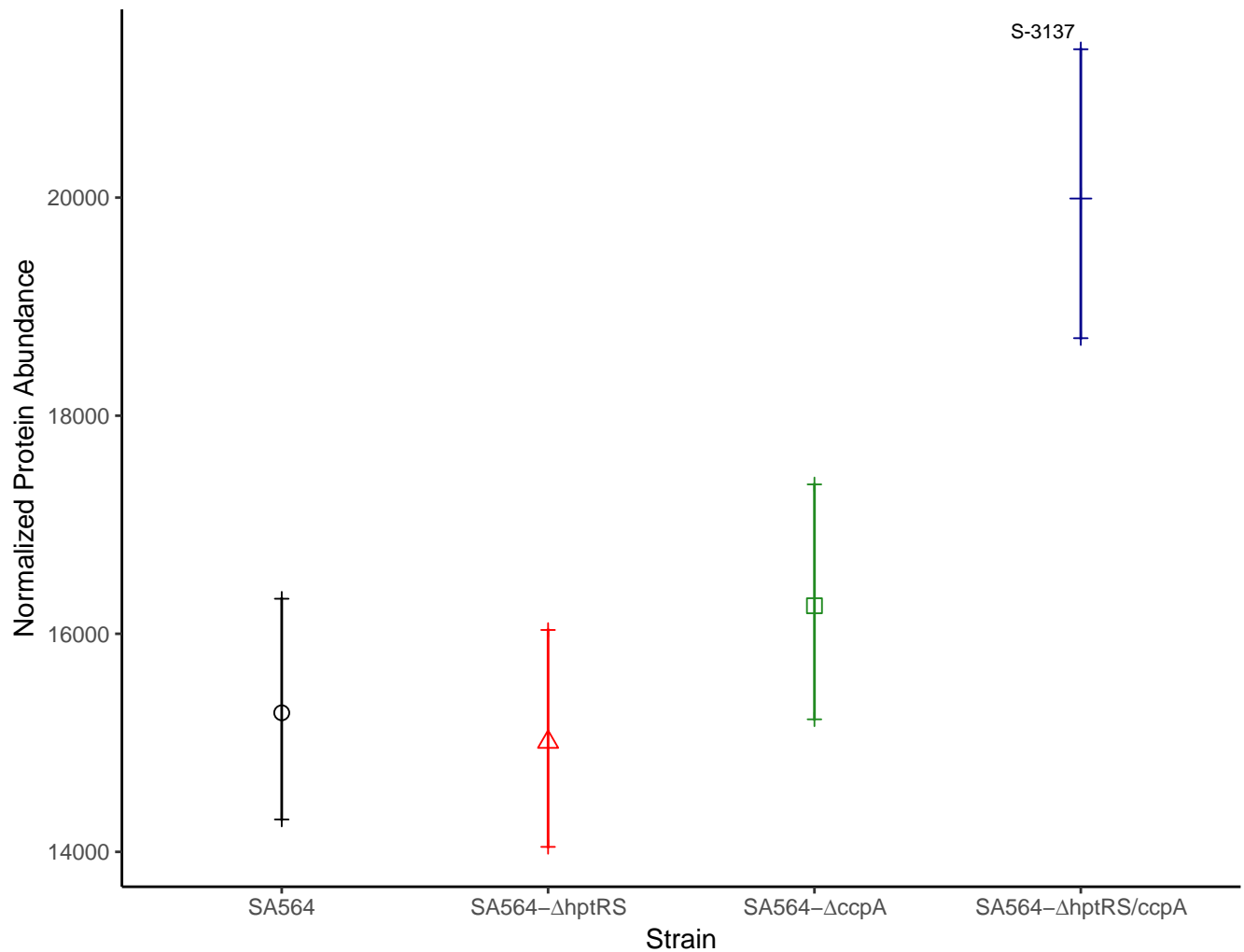
# G3P2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

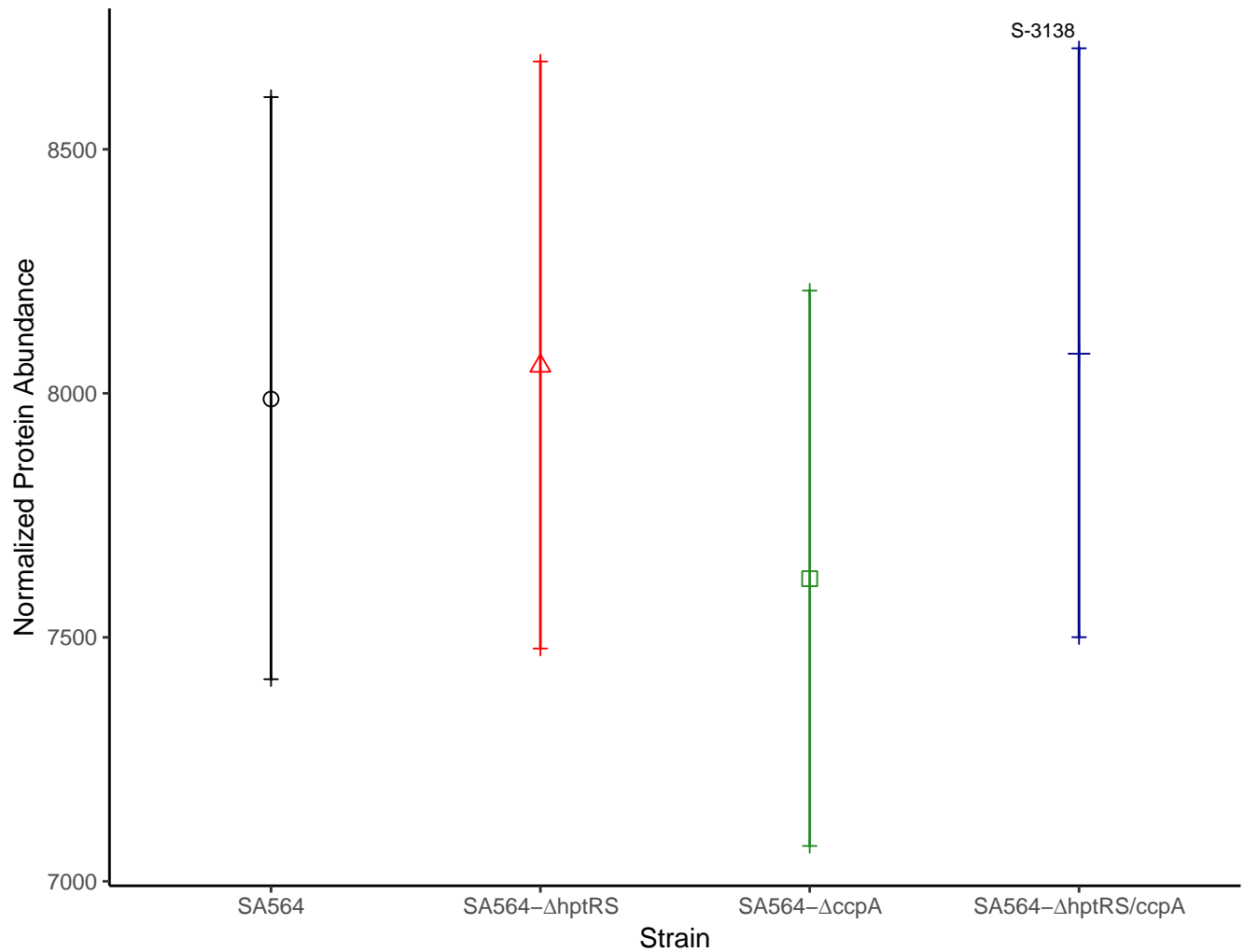


# G6PI\_STAAM



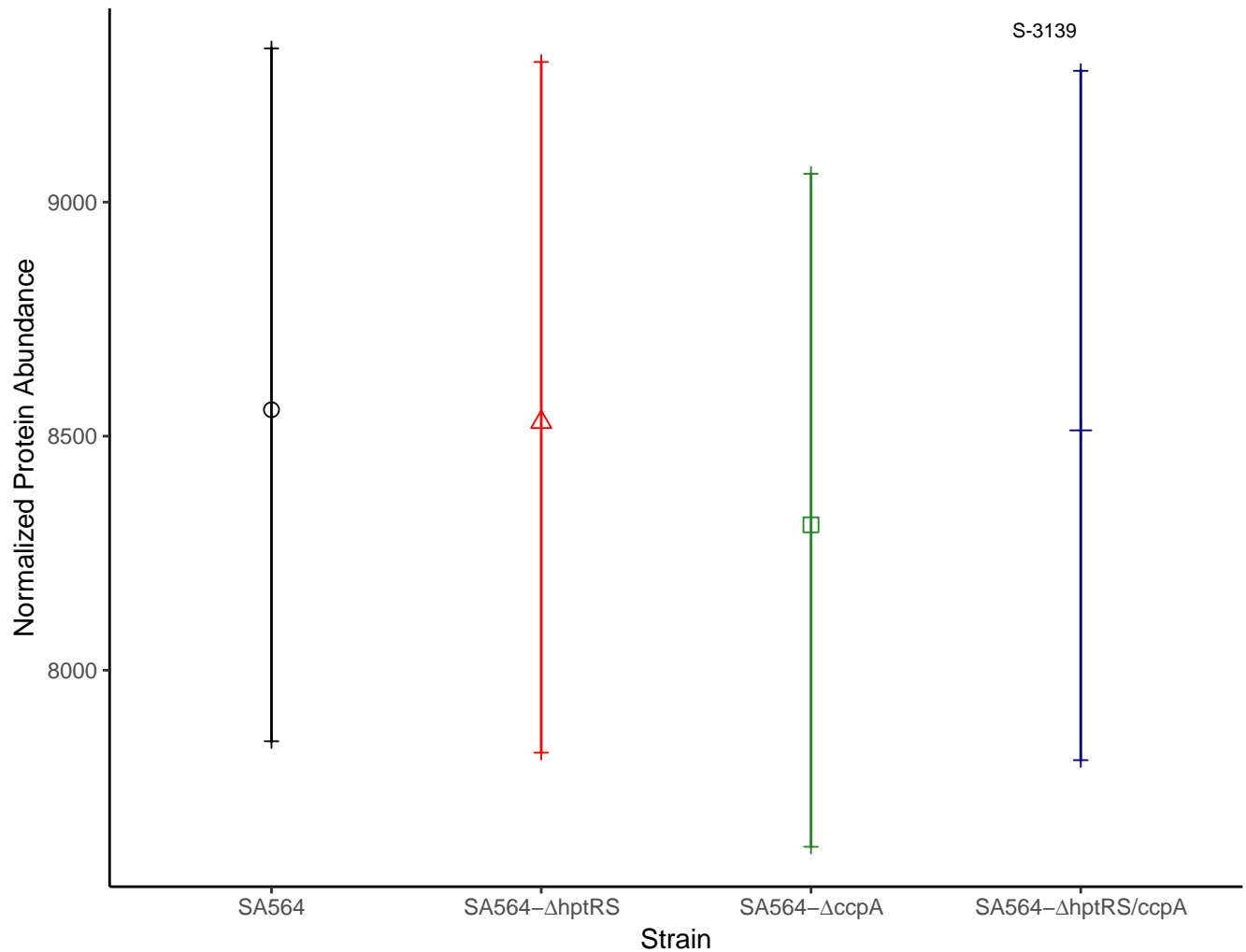
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATA\_STAAM



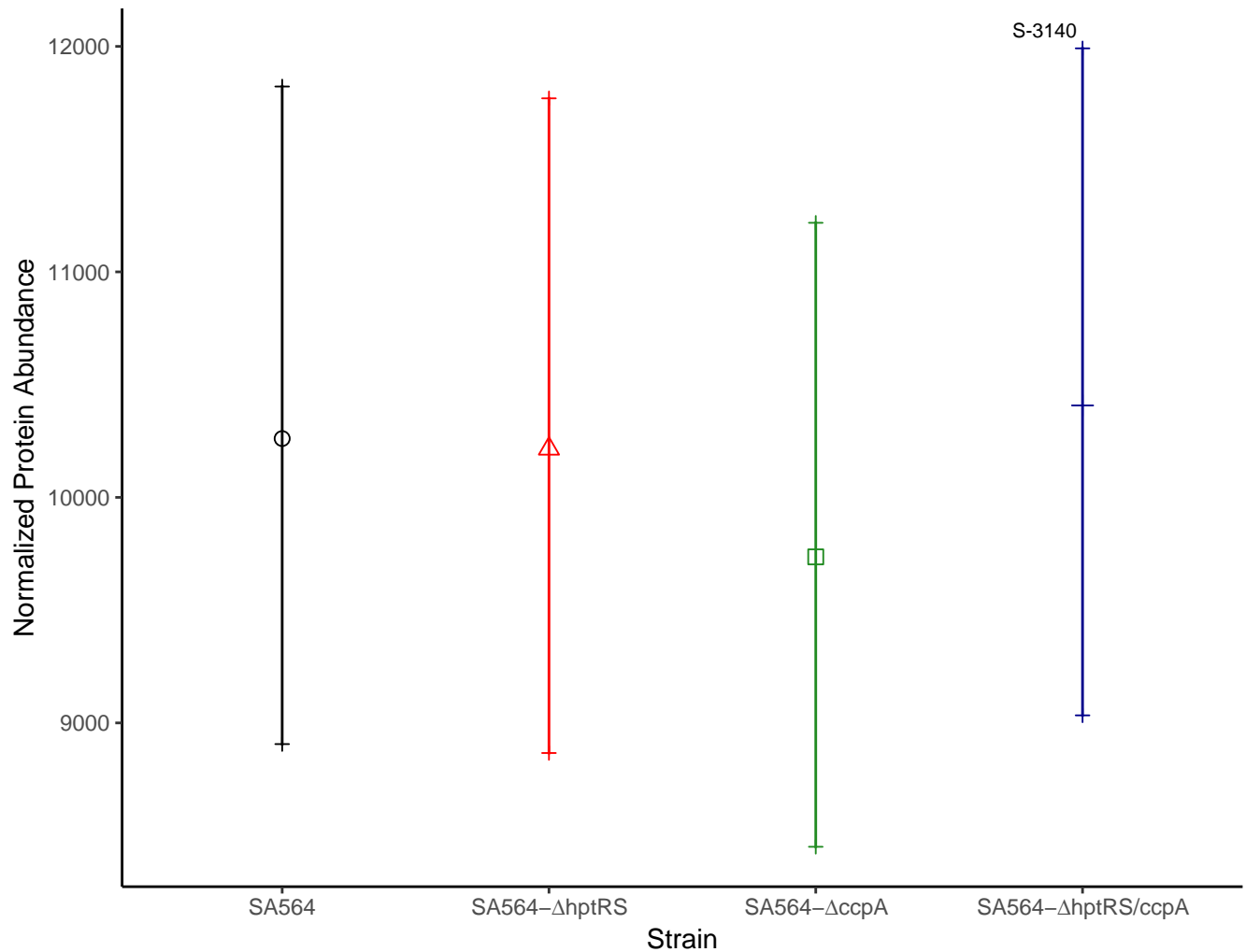
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATB\_STAAM



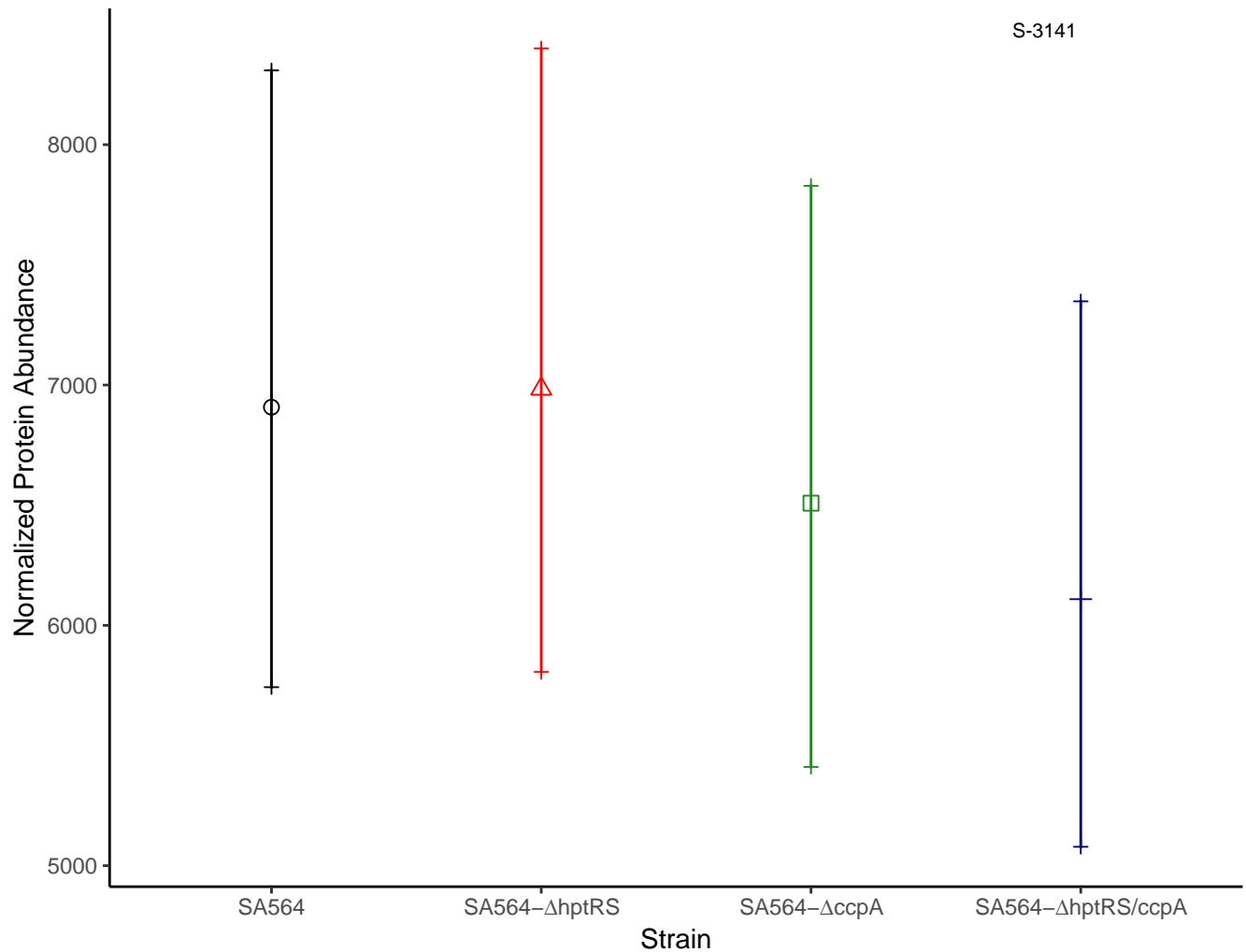
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GATC\_STAAM



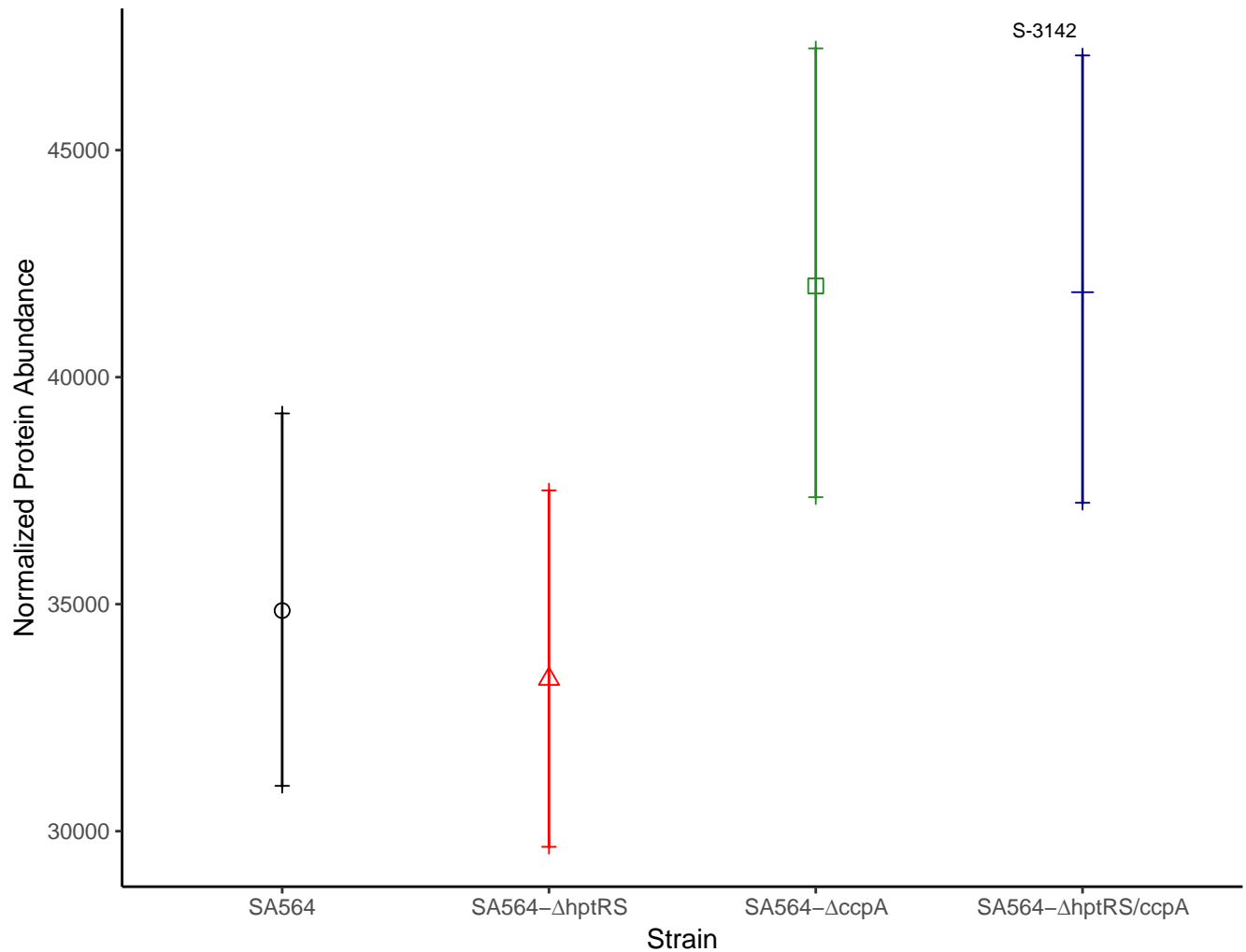
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GCH4\_STAAM



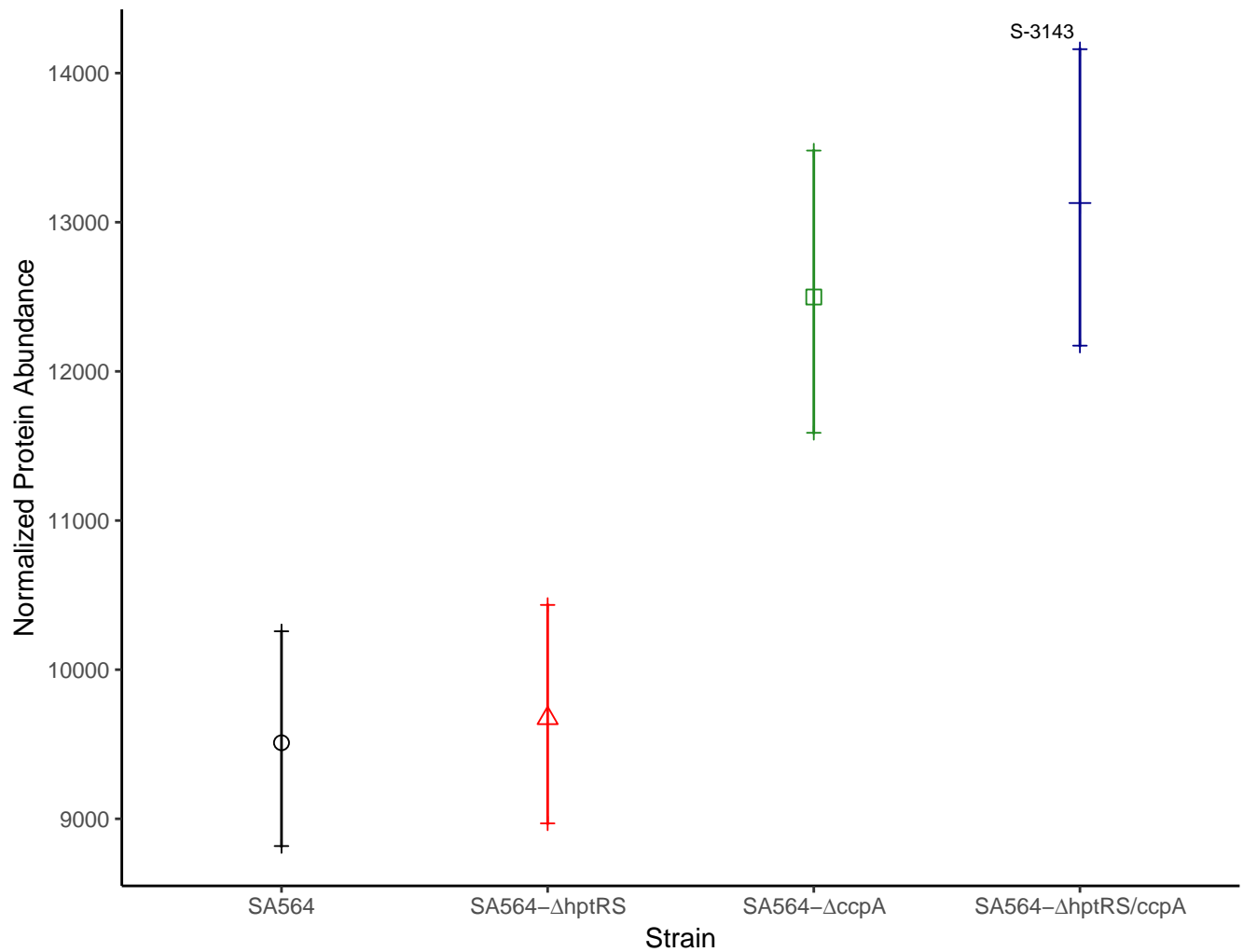
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# GCSH\_STAAM



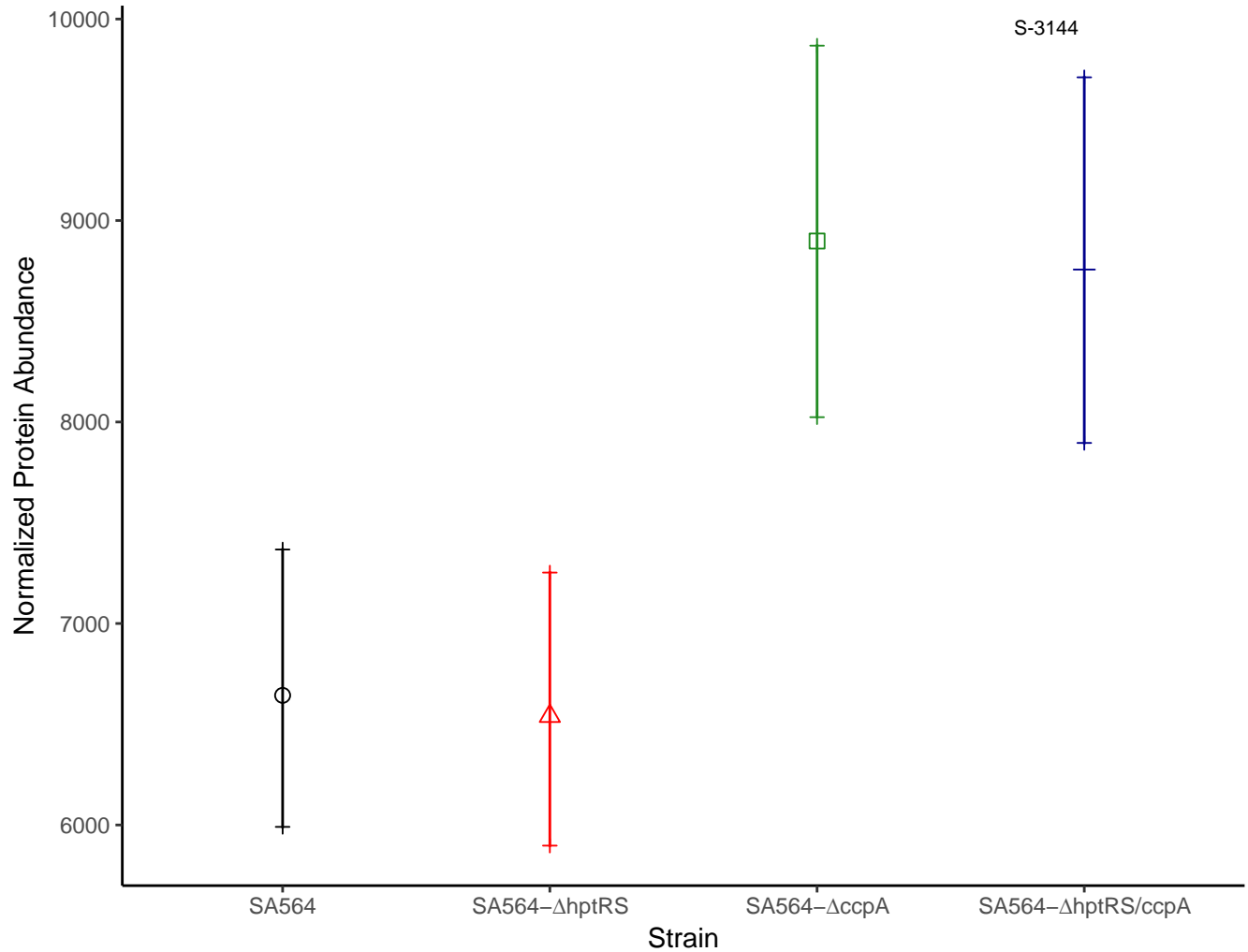
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GCSPA\_STAAM



- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GCSPB\_STAAM

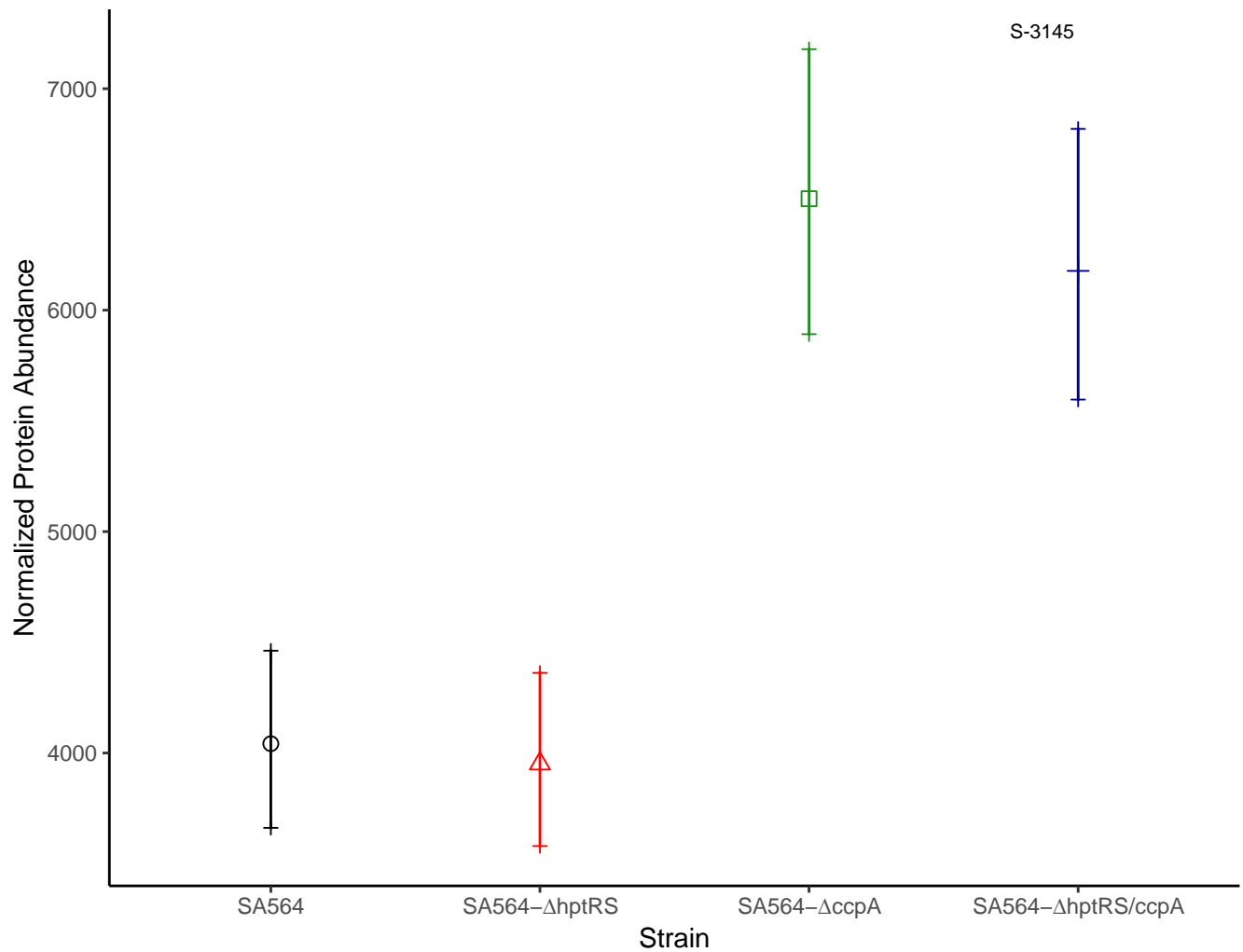


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

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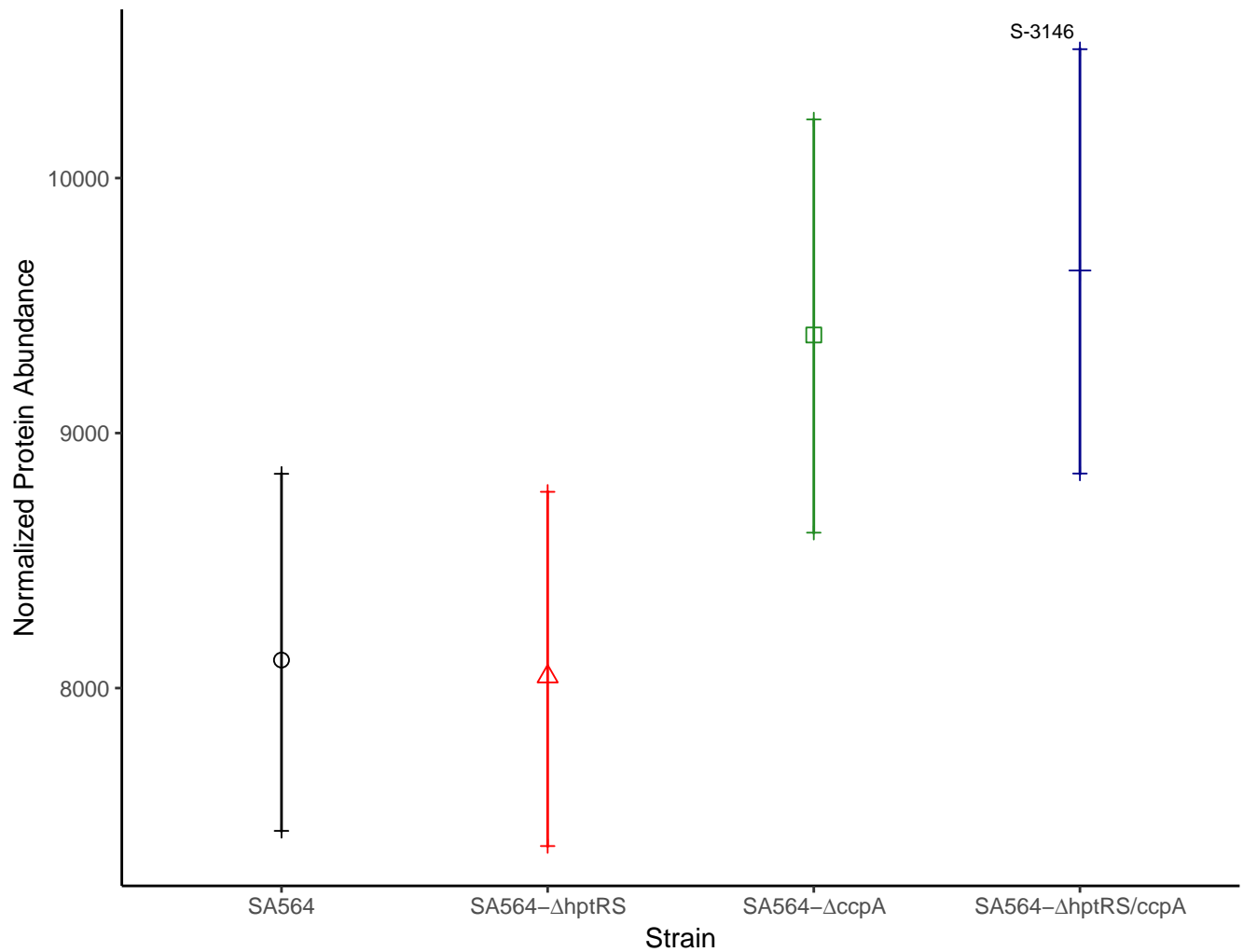


# GCST\_STAAM



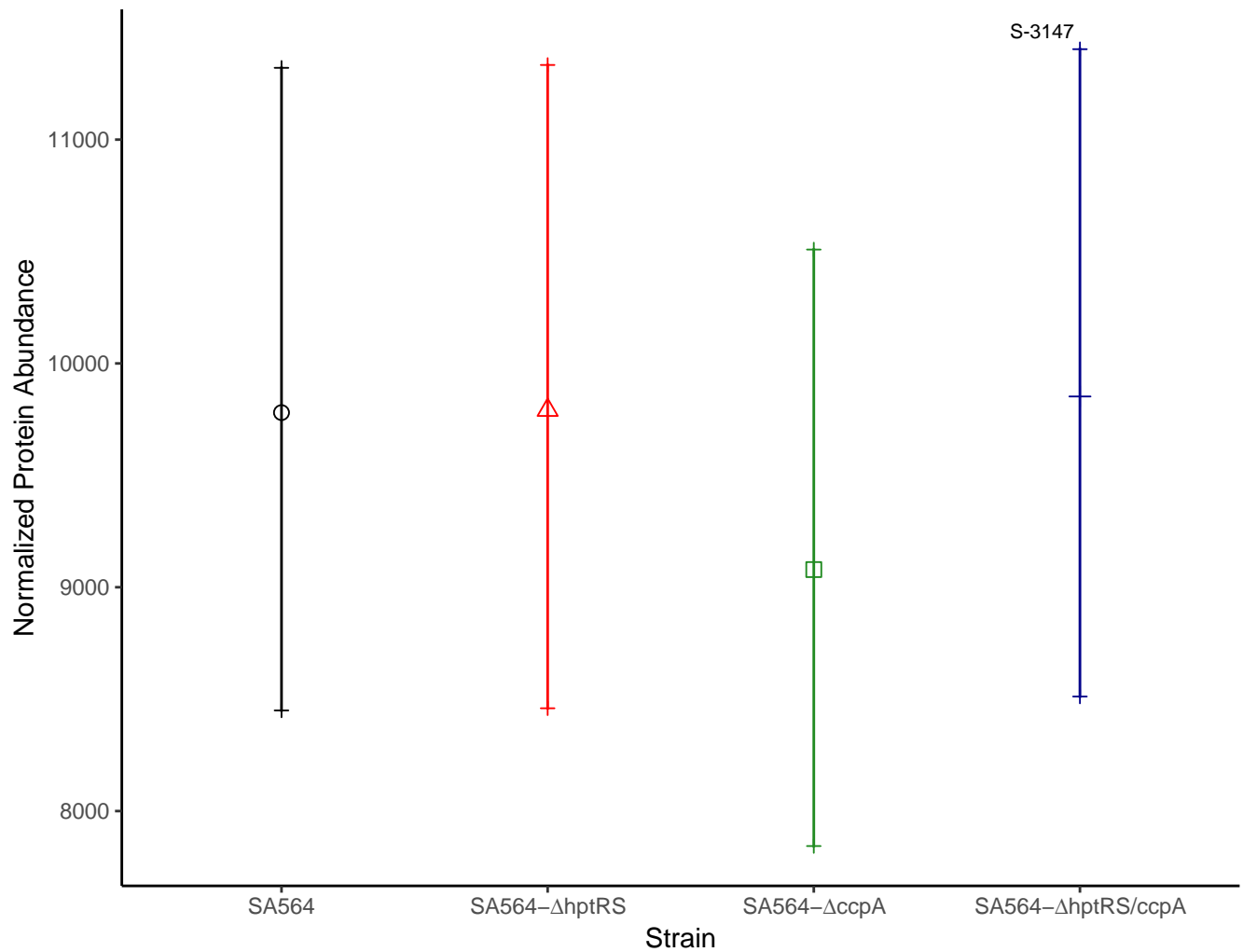
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GLMM\_STAAM



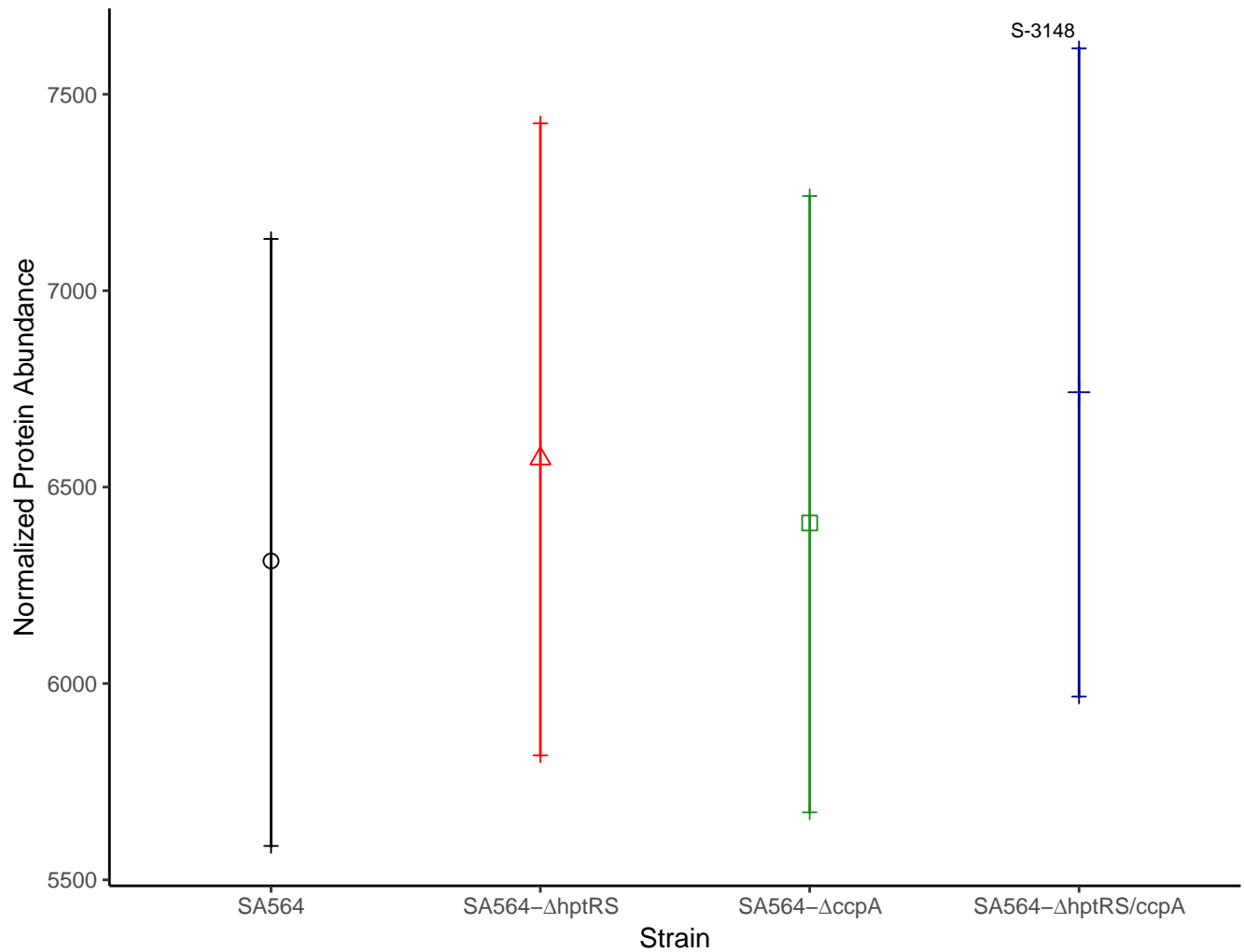
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLMS\_STAAM



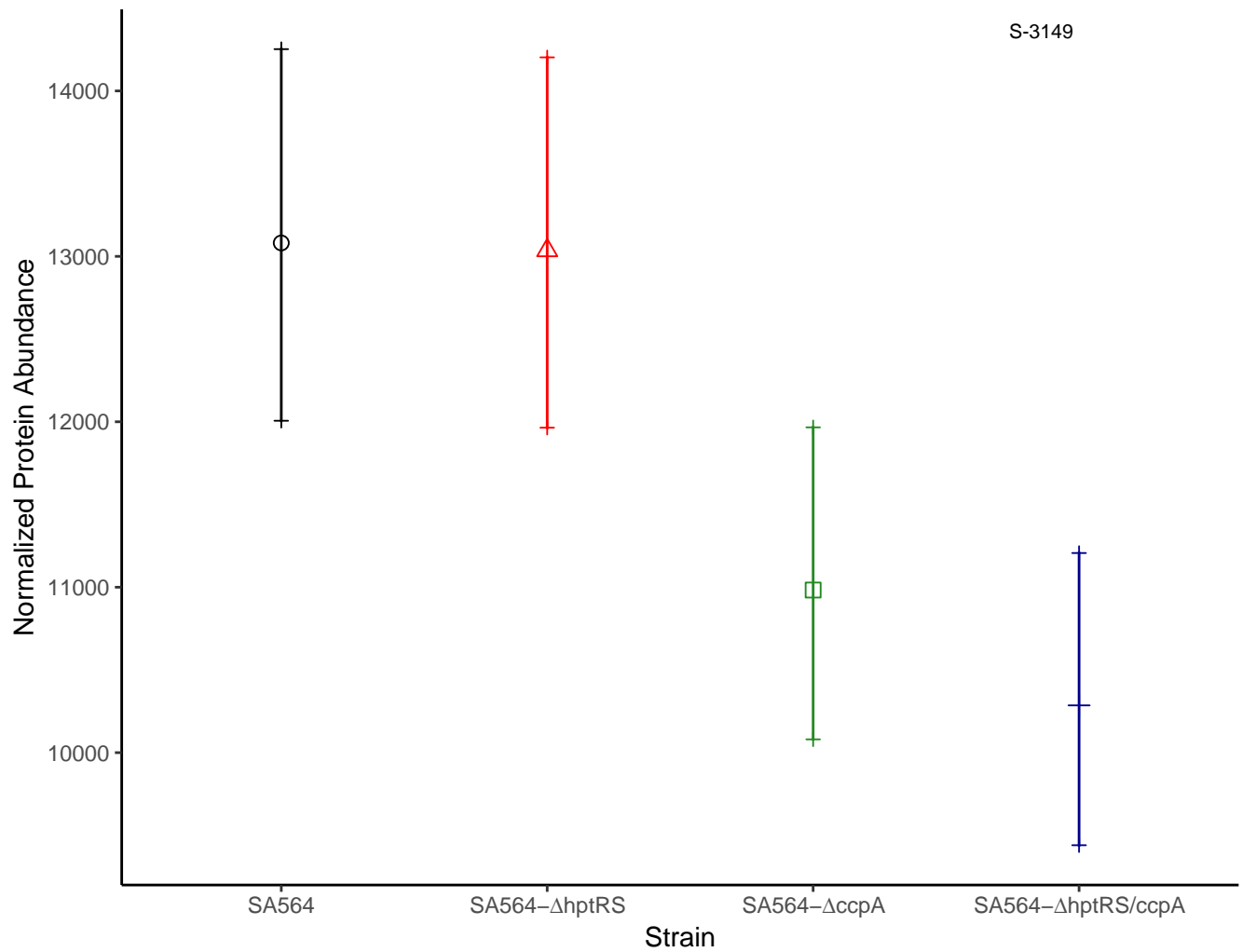
- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# GLMU\_STAAM



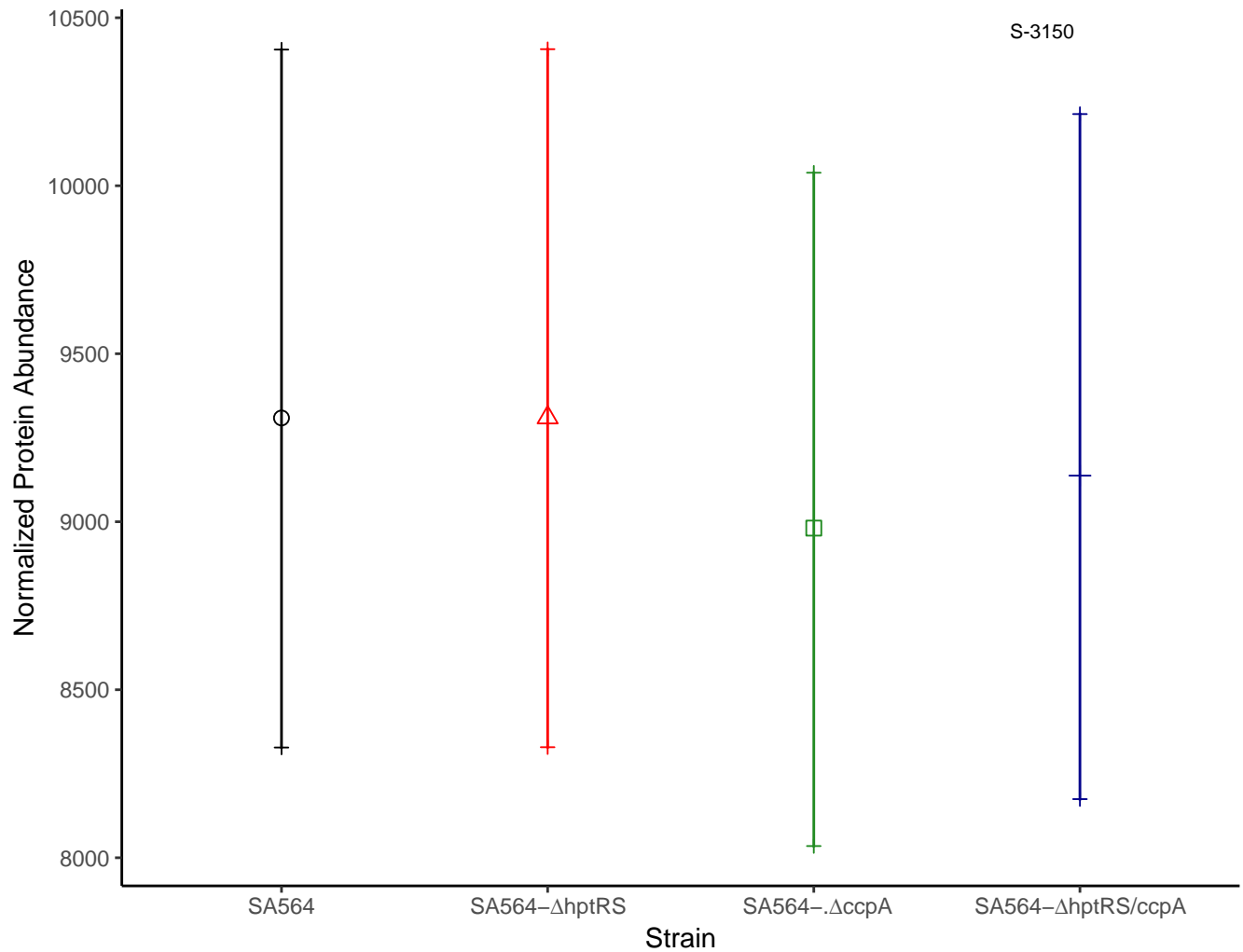
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLNA\_STAAM



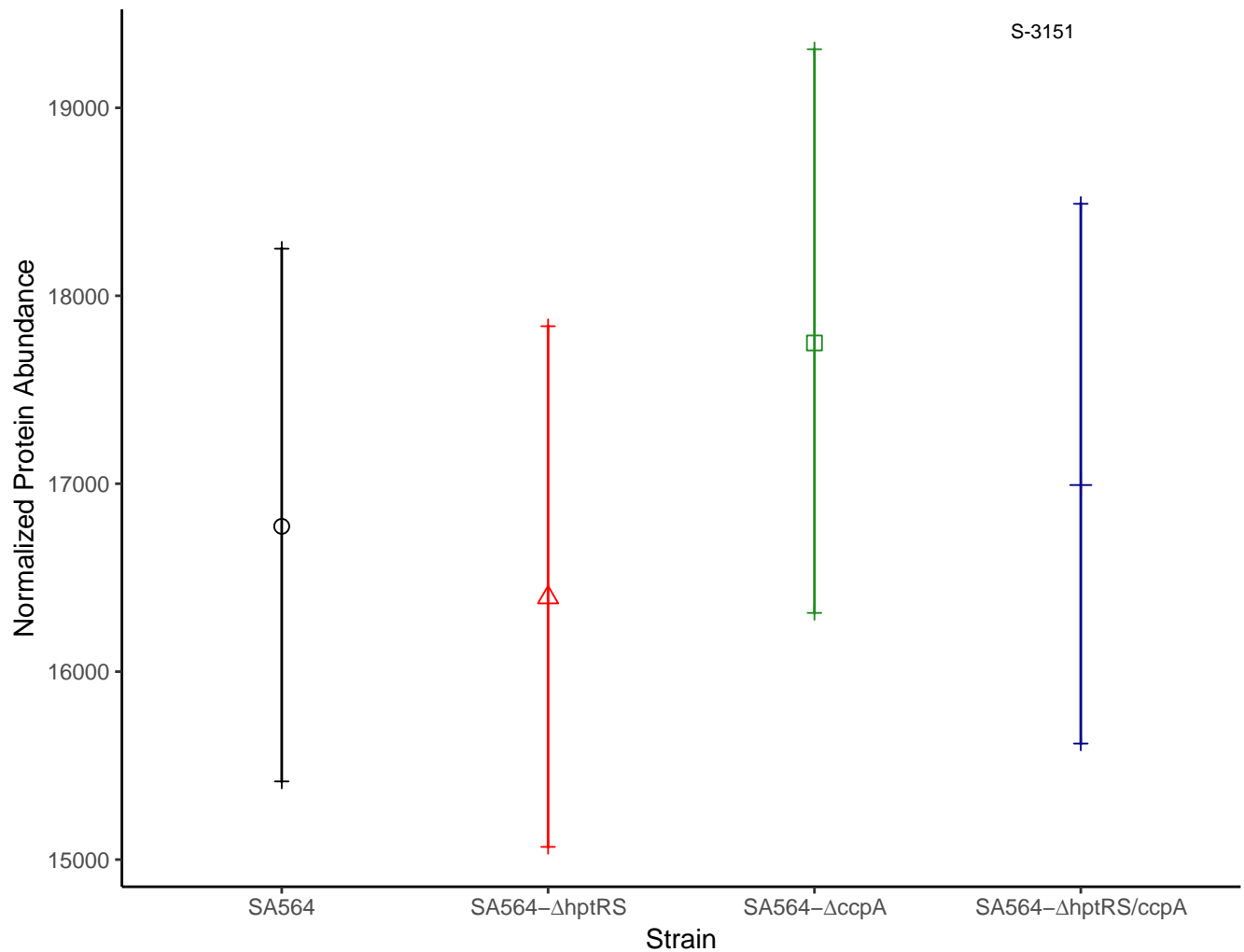
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLPD\_STAAM



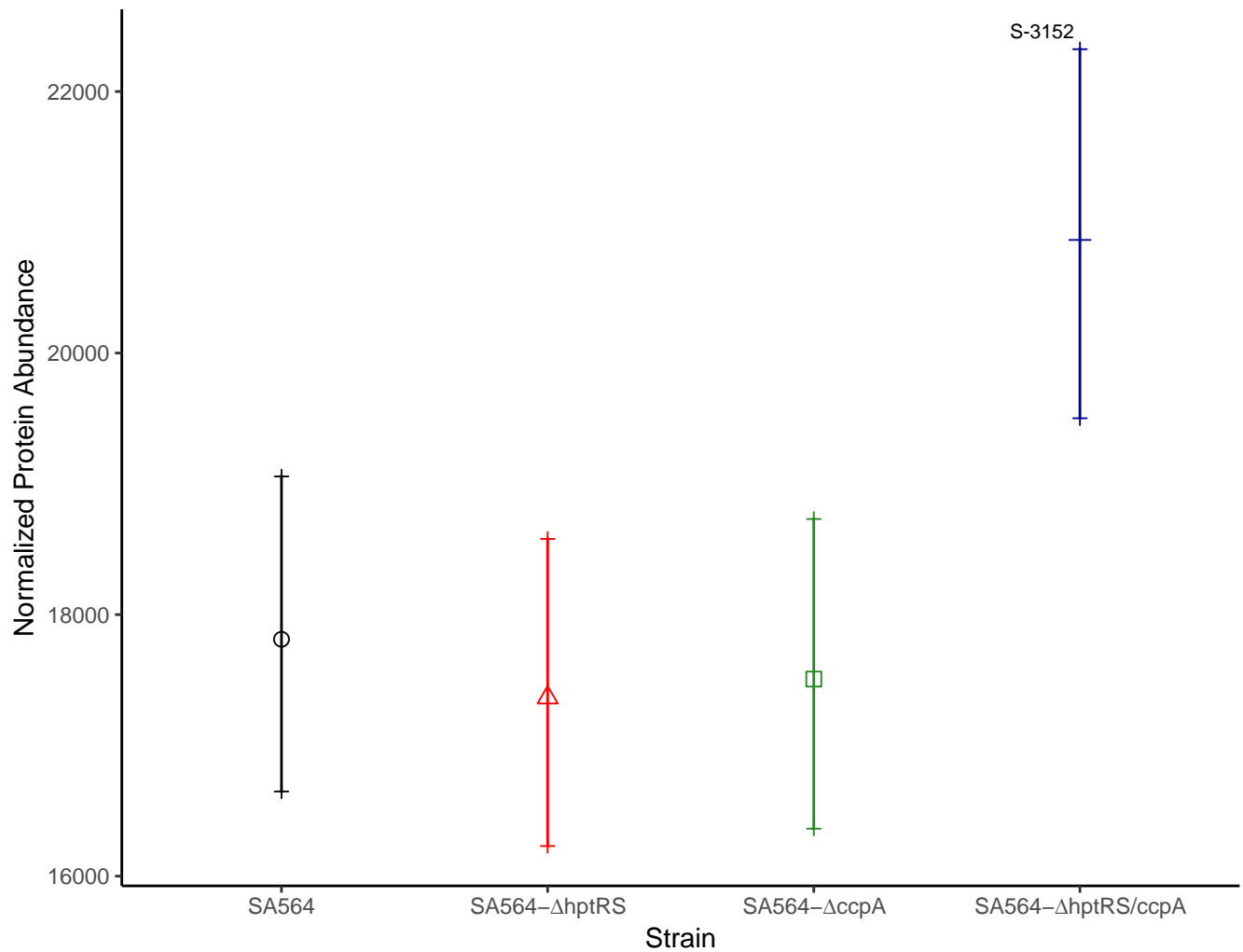
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GLPK\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

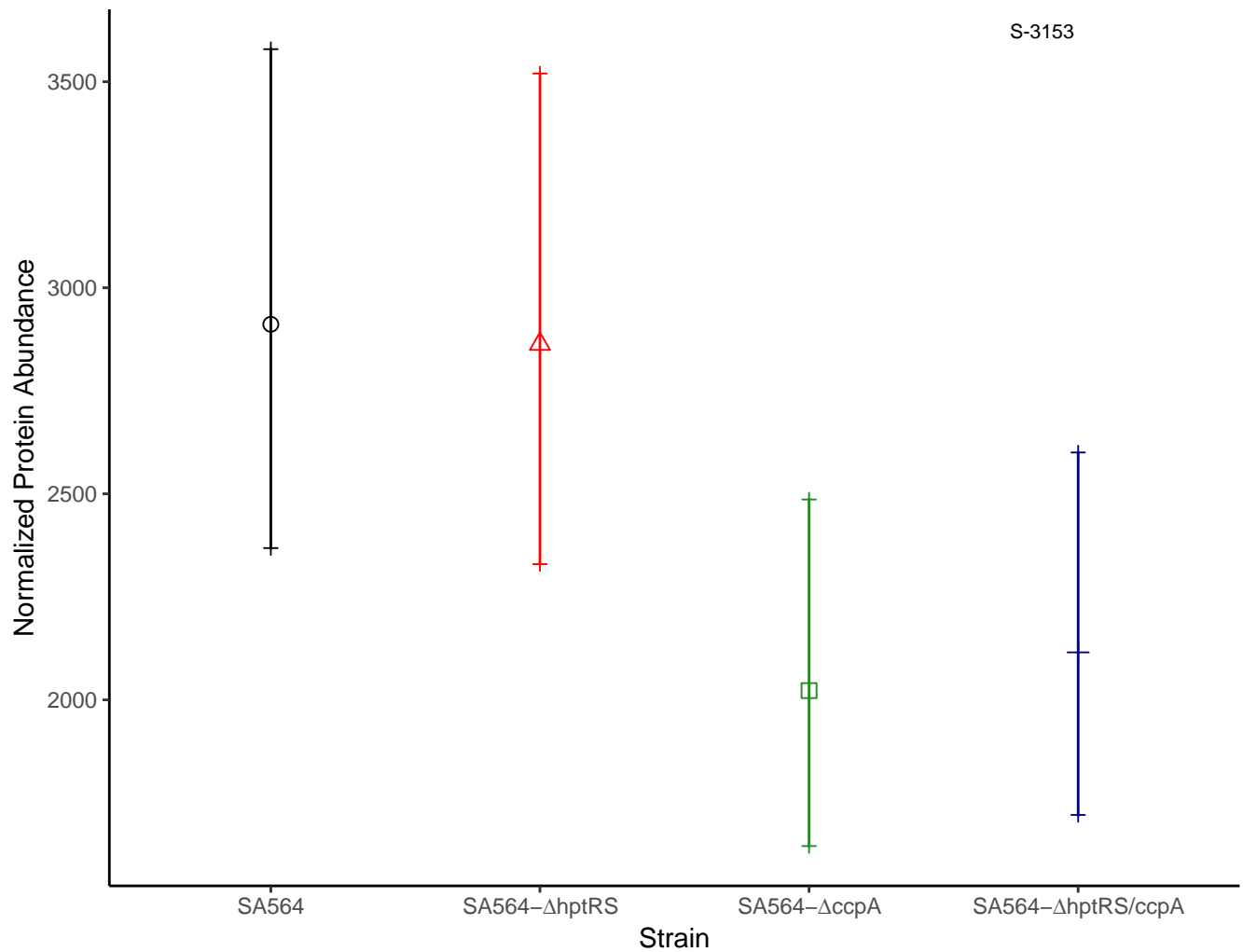
# GLYA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

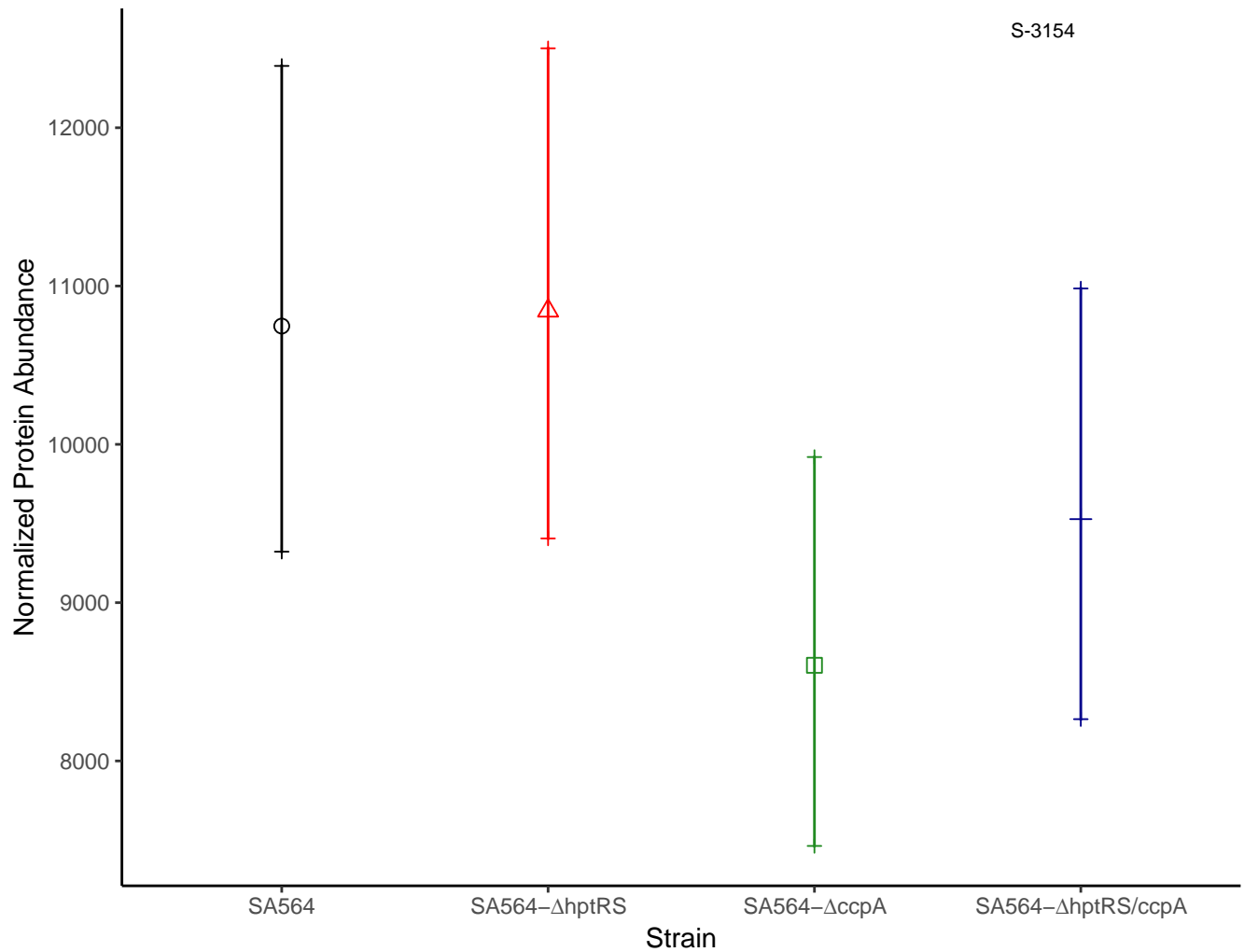


# GPDA\_STAAM



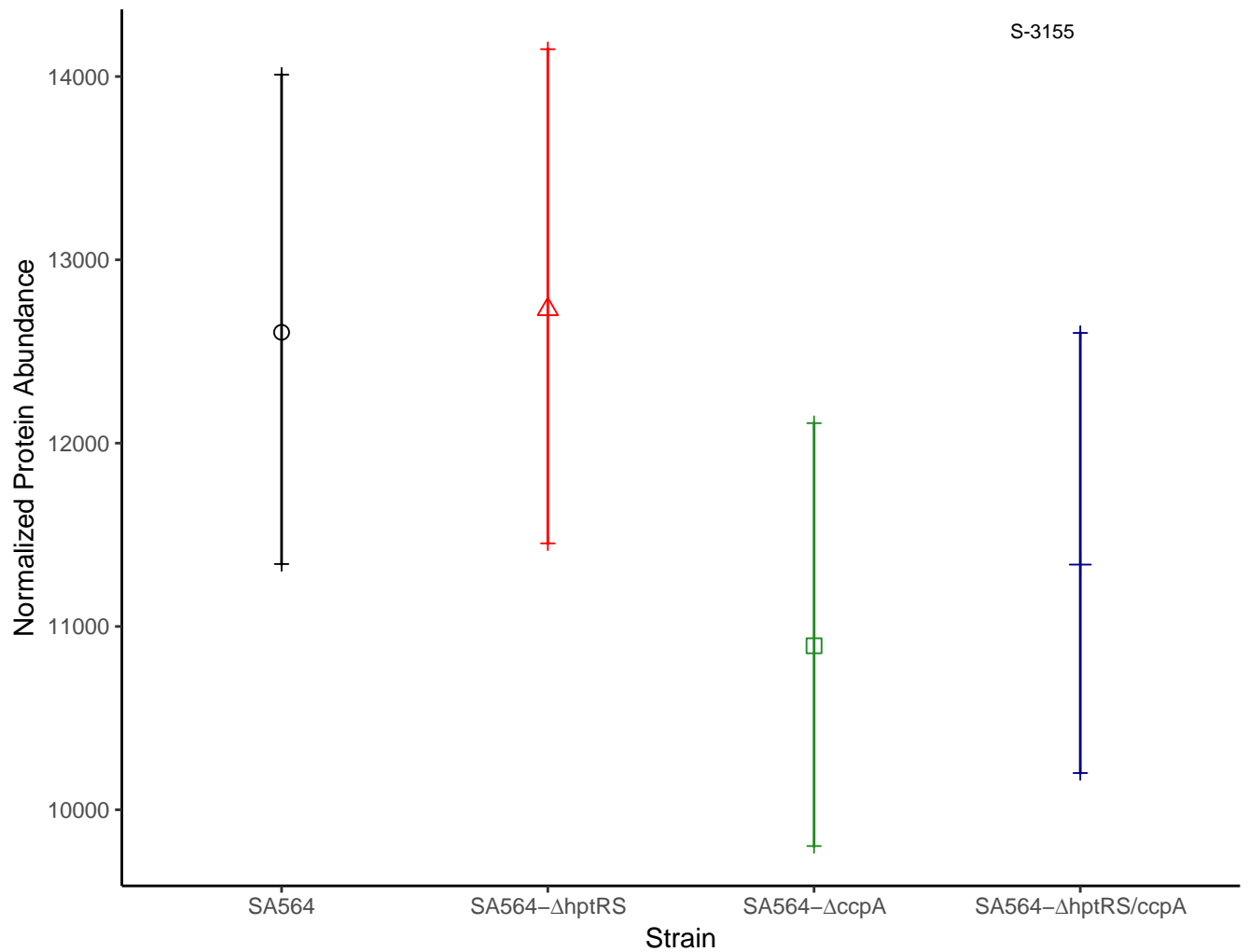
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GPMA\_STAAM



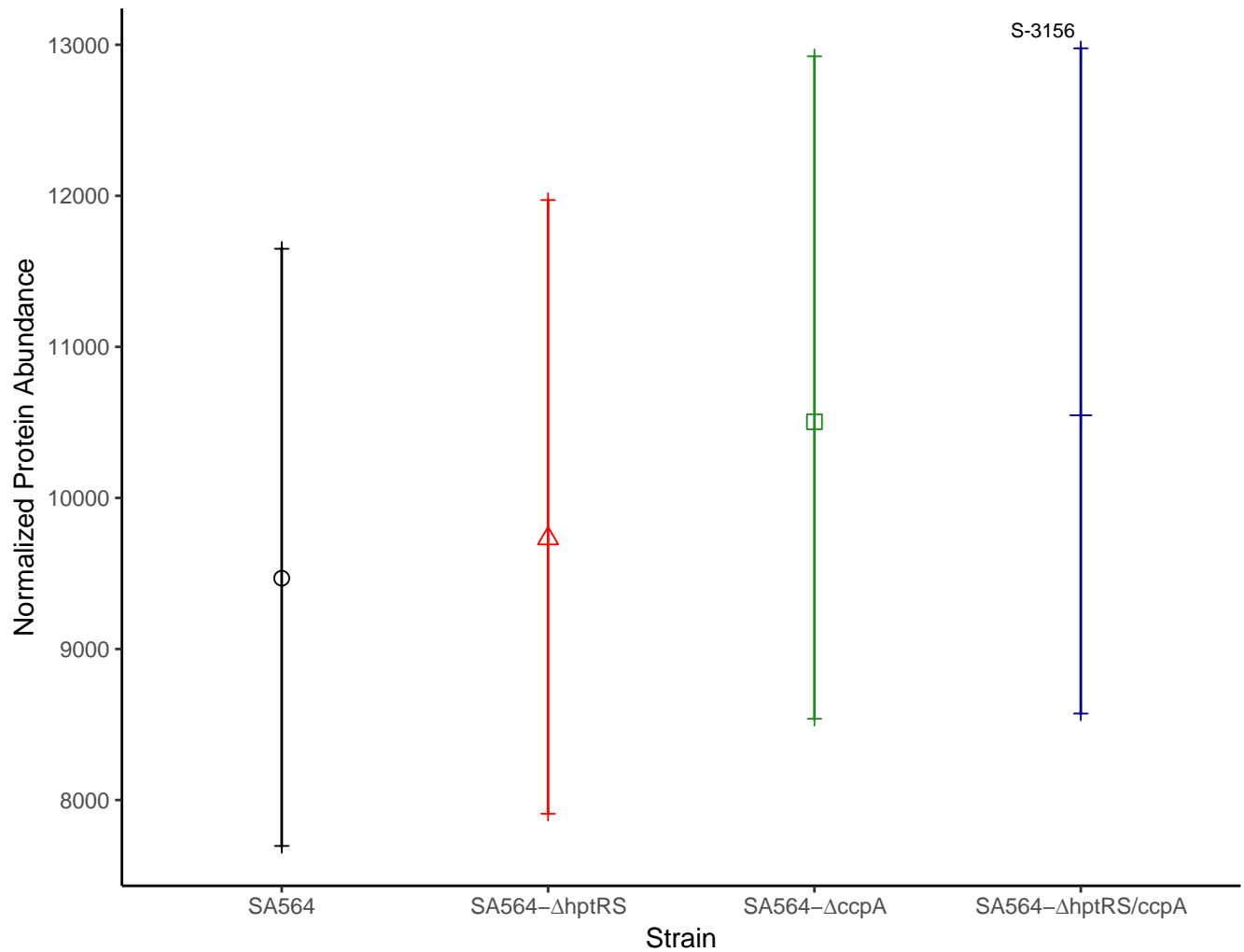
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GPMI\_STAAM



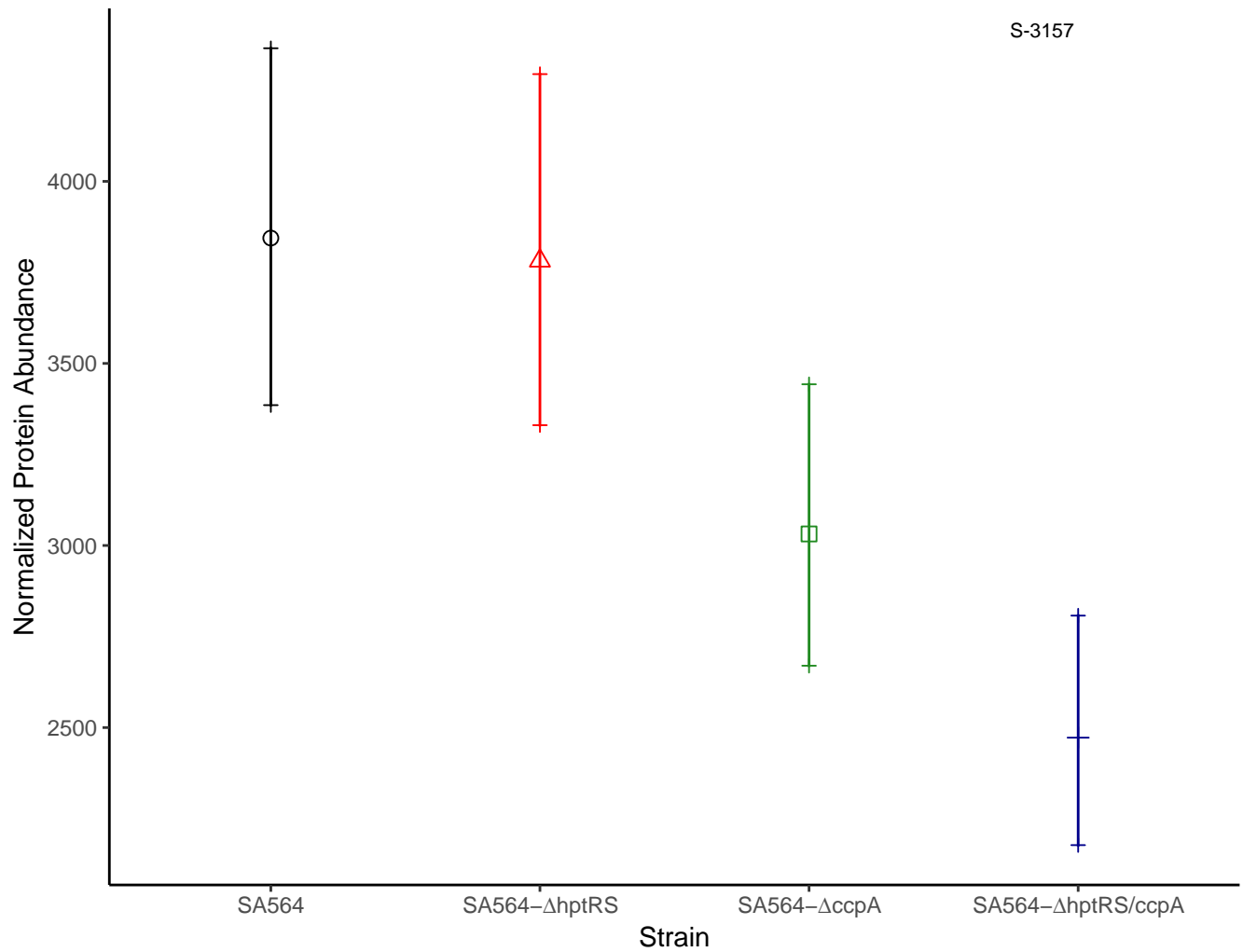
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GPSB\_STAAM



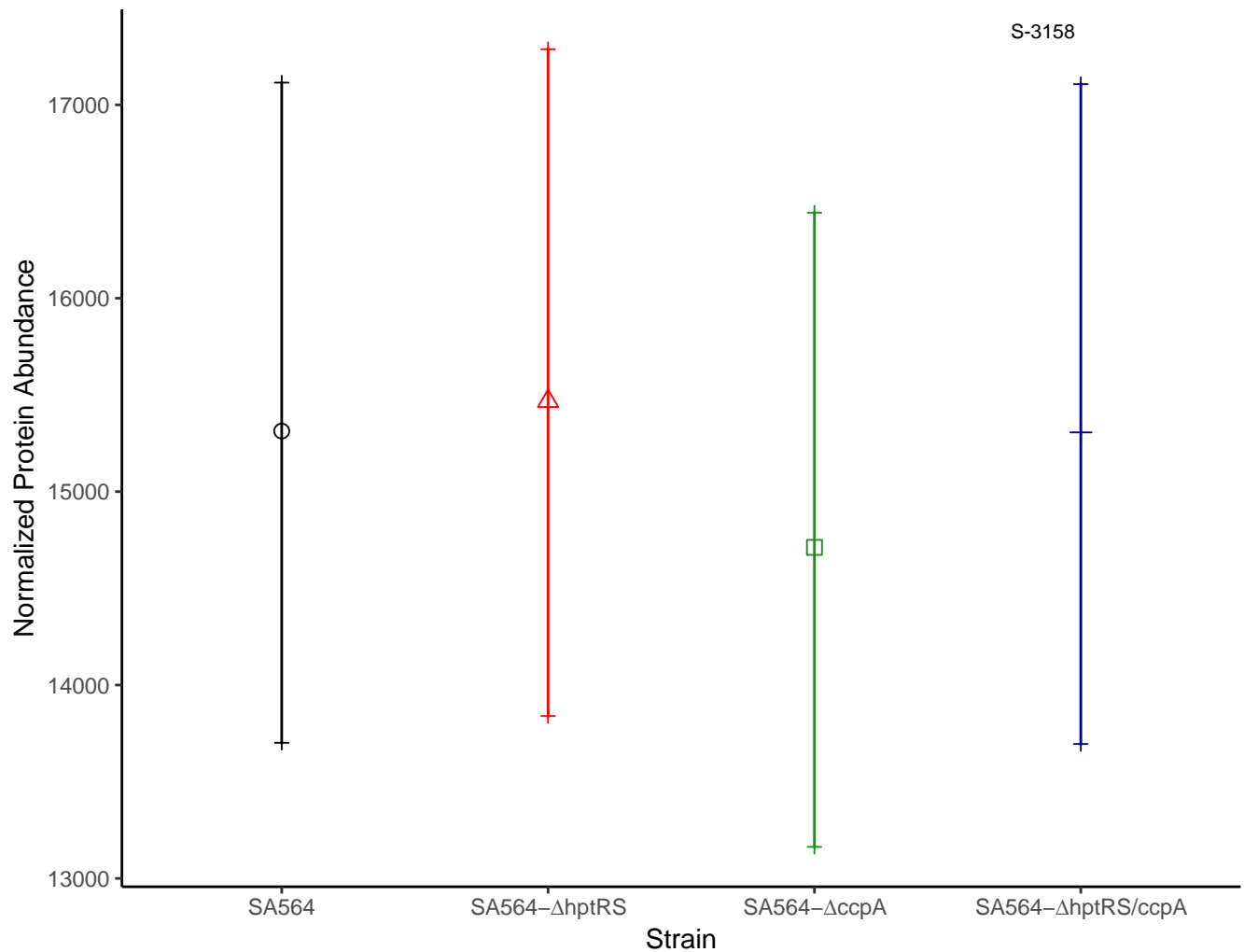
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GRAR\_STAAM



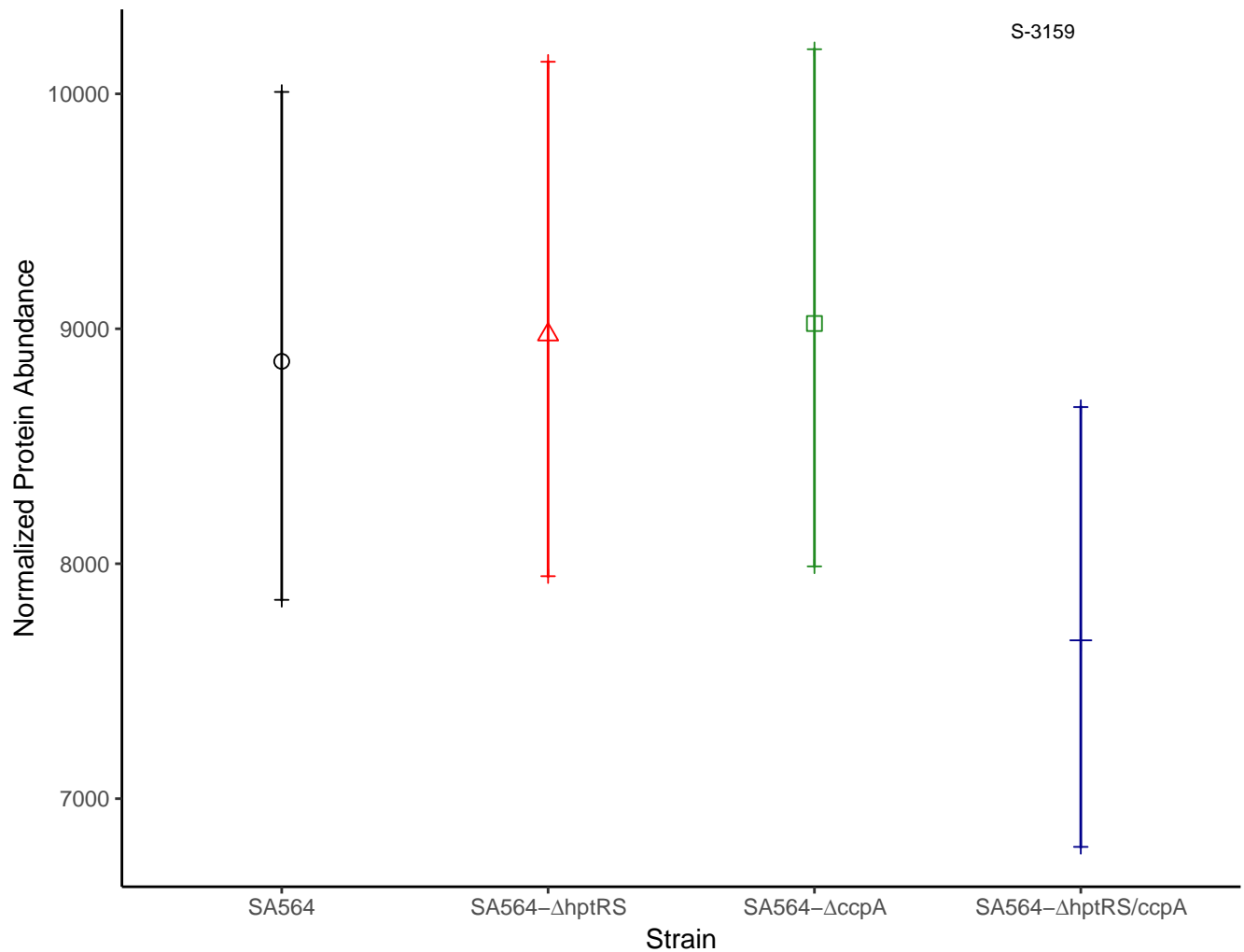
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GRE\_A\_STAAM



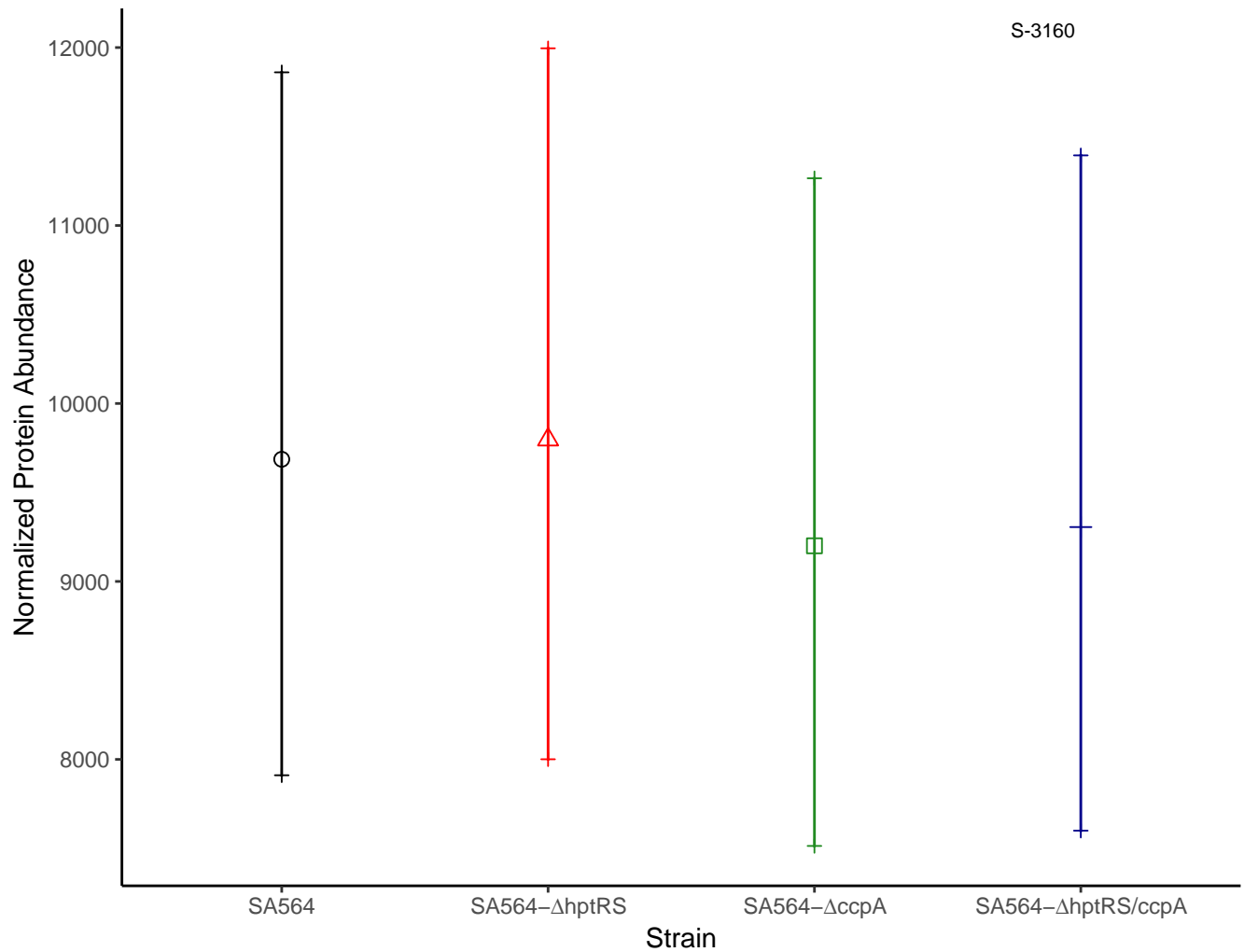
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GRPE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

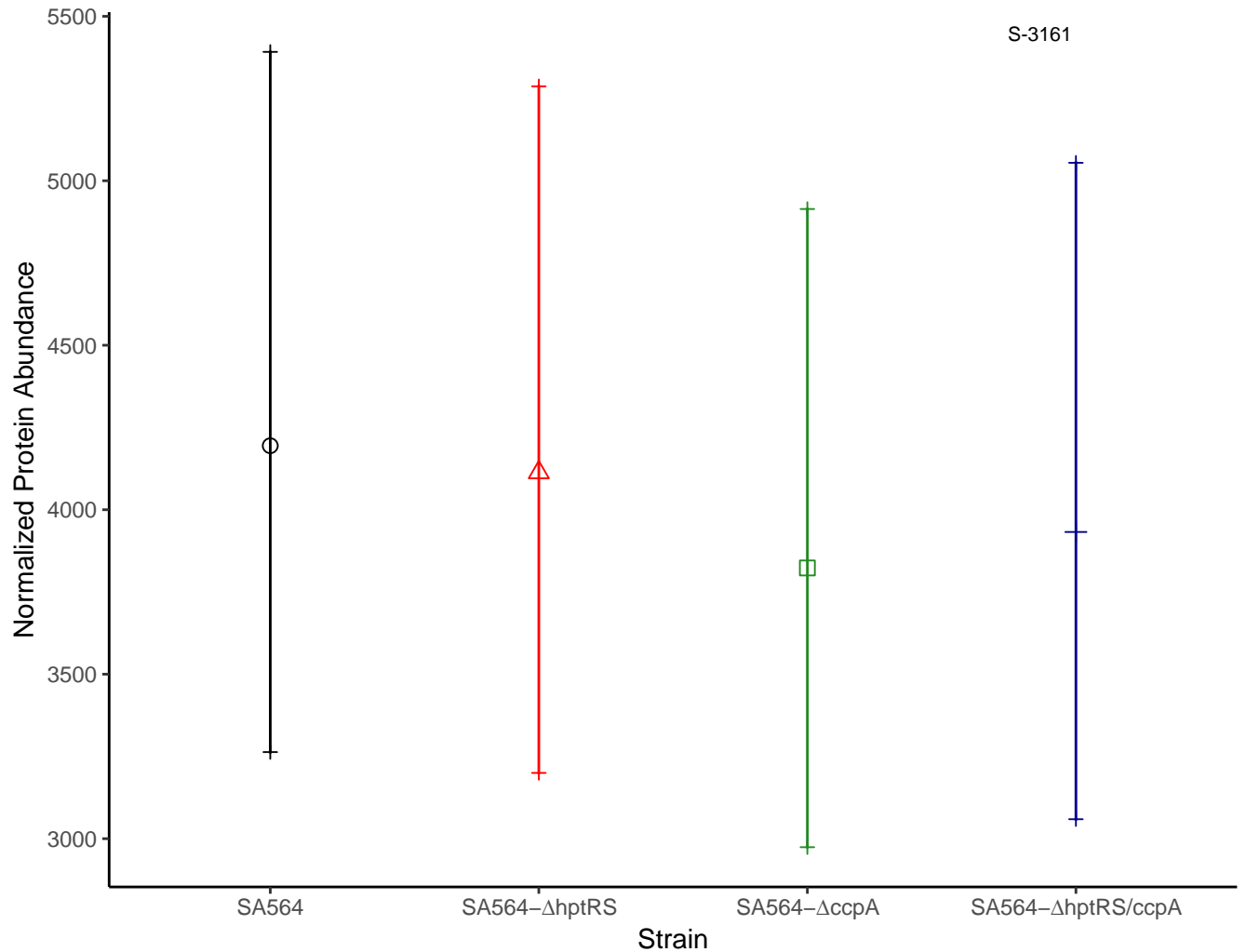
# GSA1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

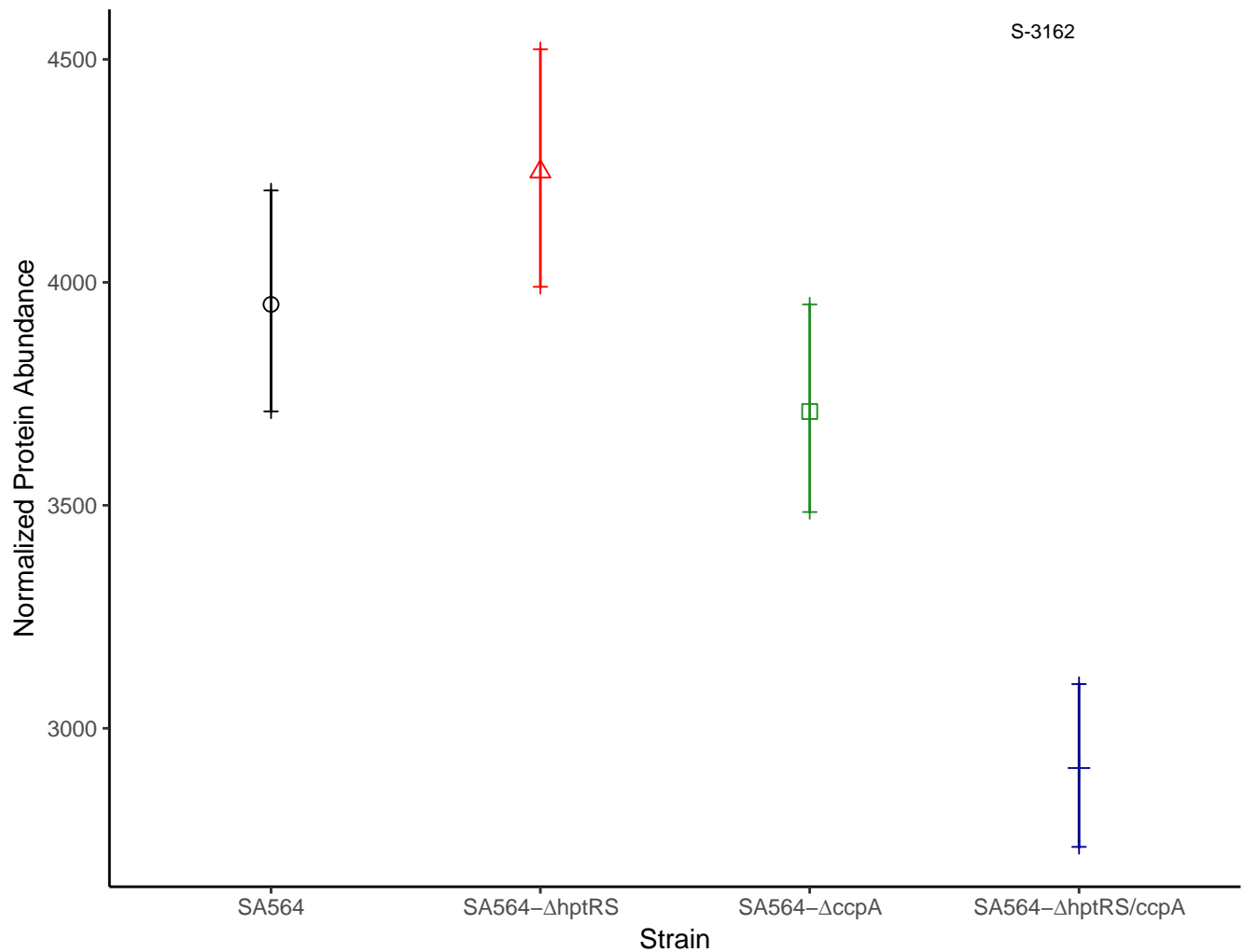


# GSA2\_STAAM



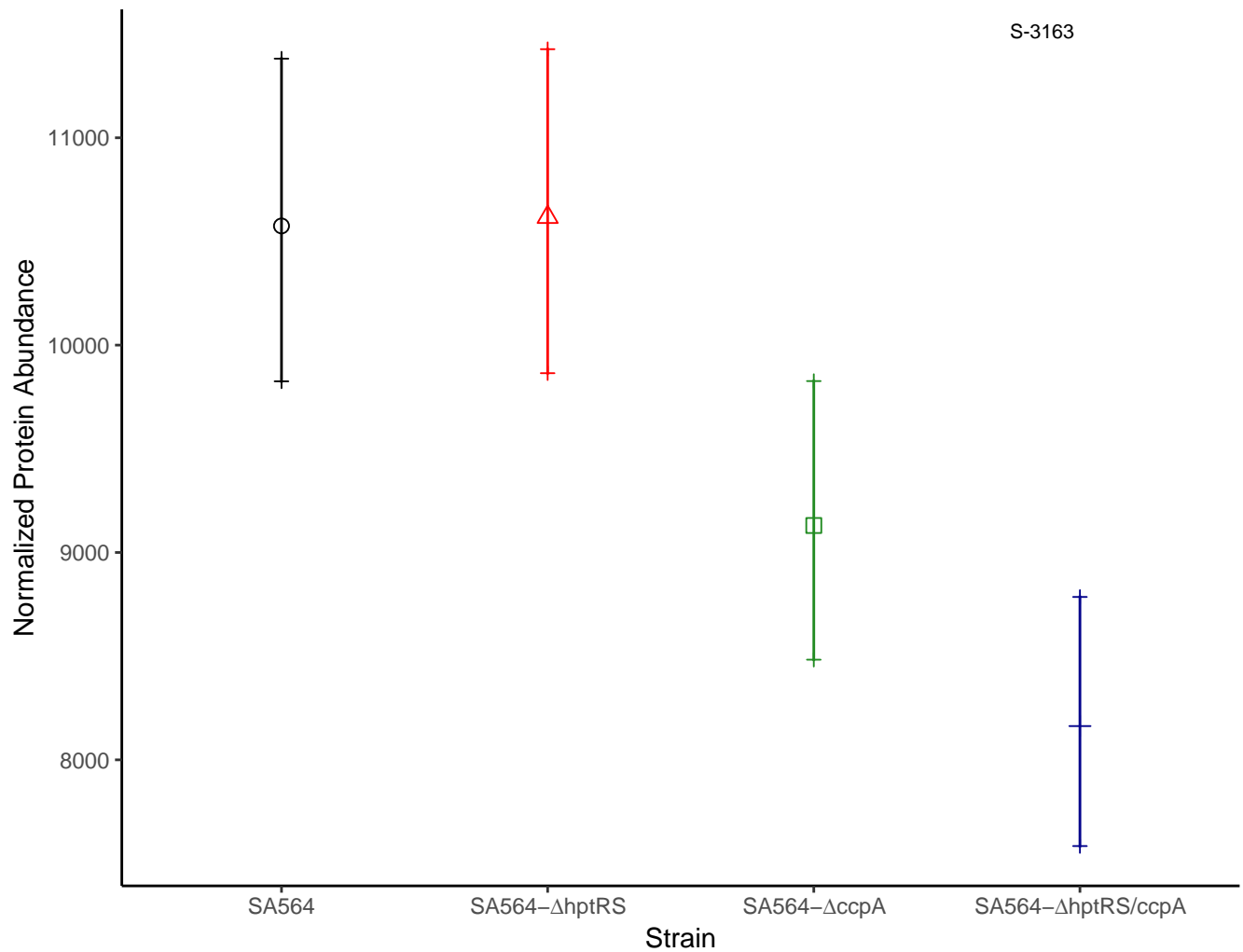
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GTAB\_STAAM



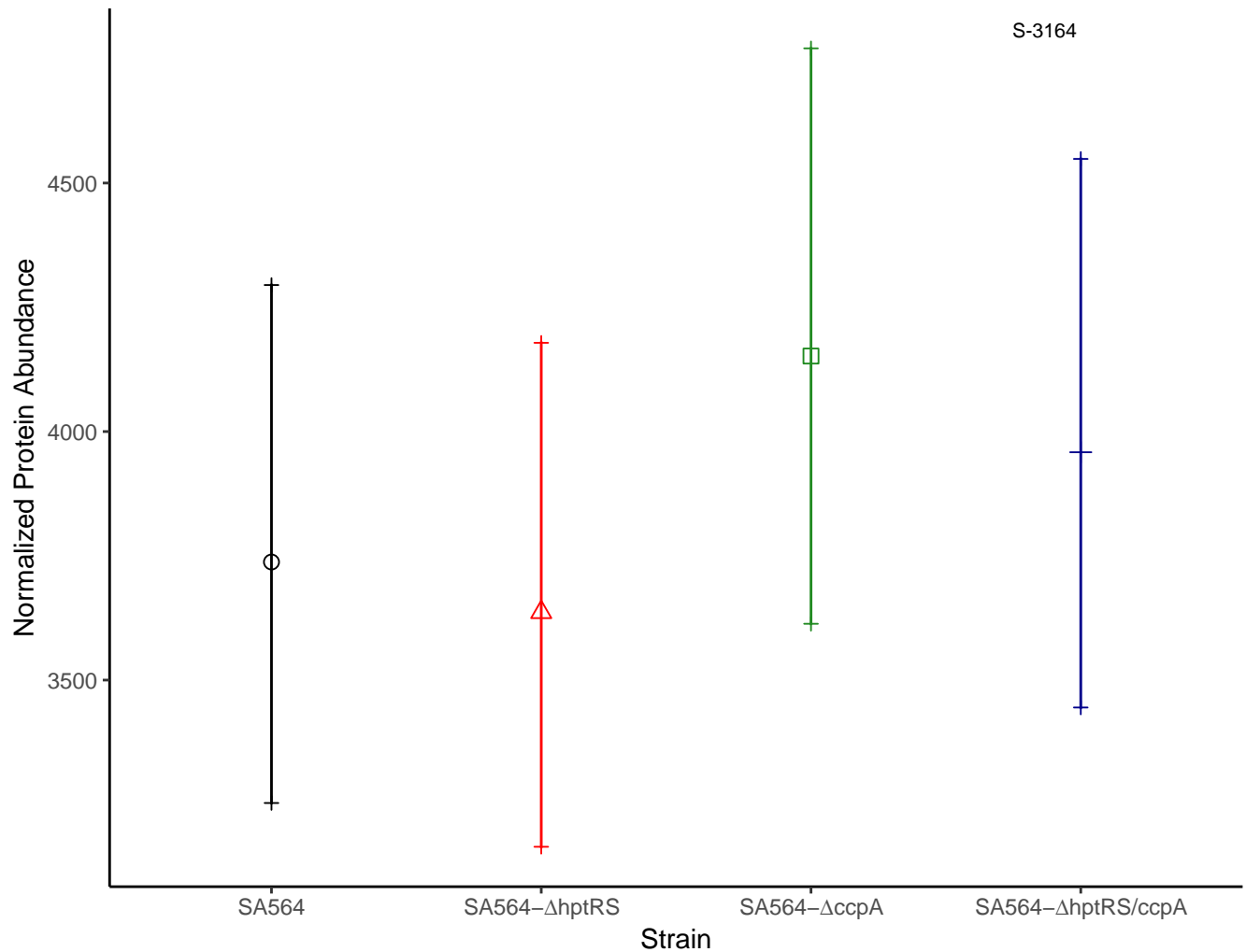
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# GUA<sub>A</sub>\_STAAM



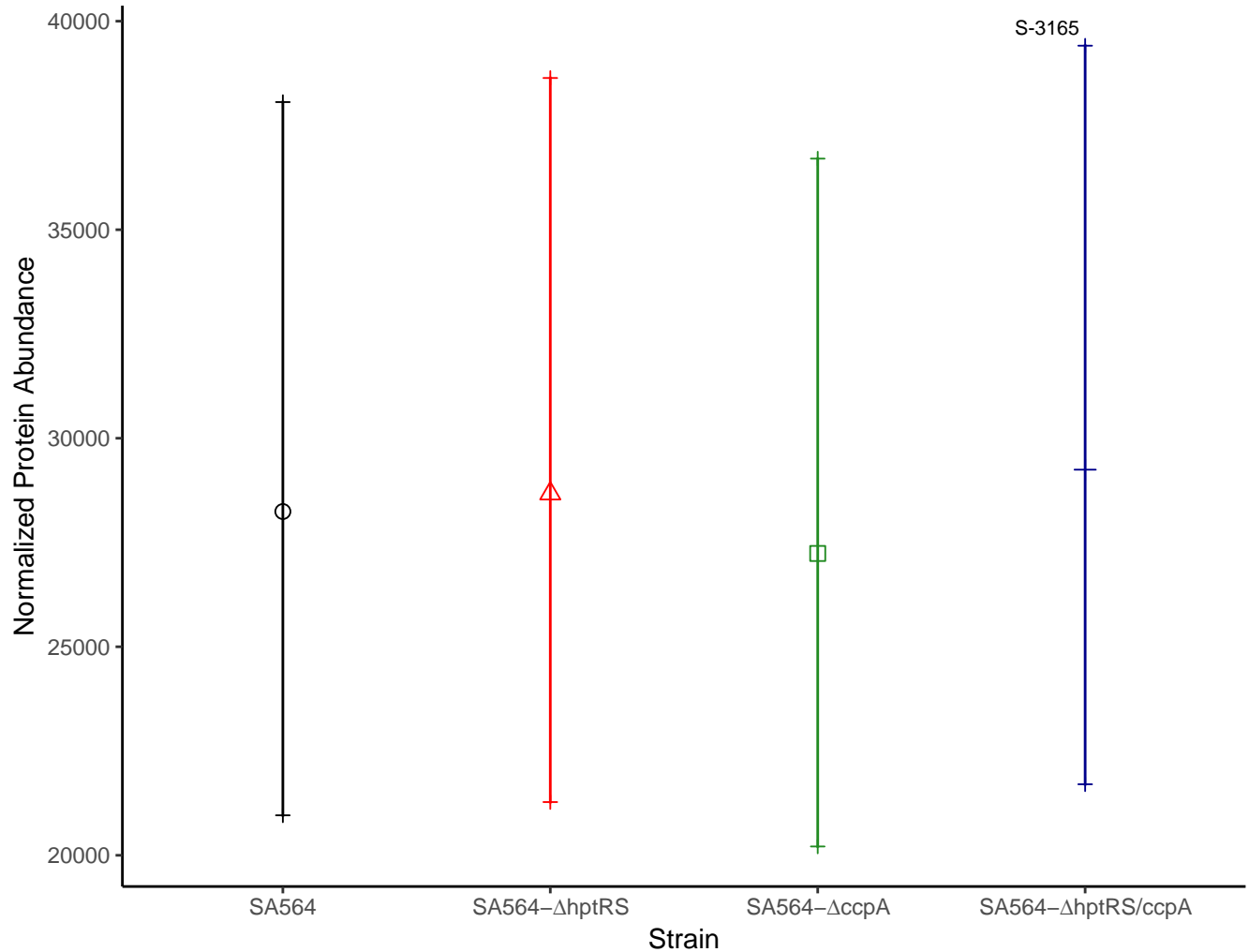
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# GUAC\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

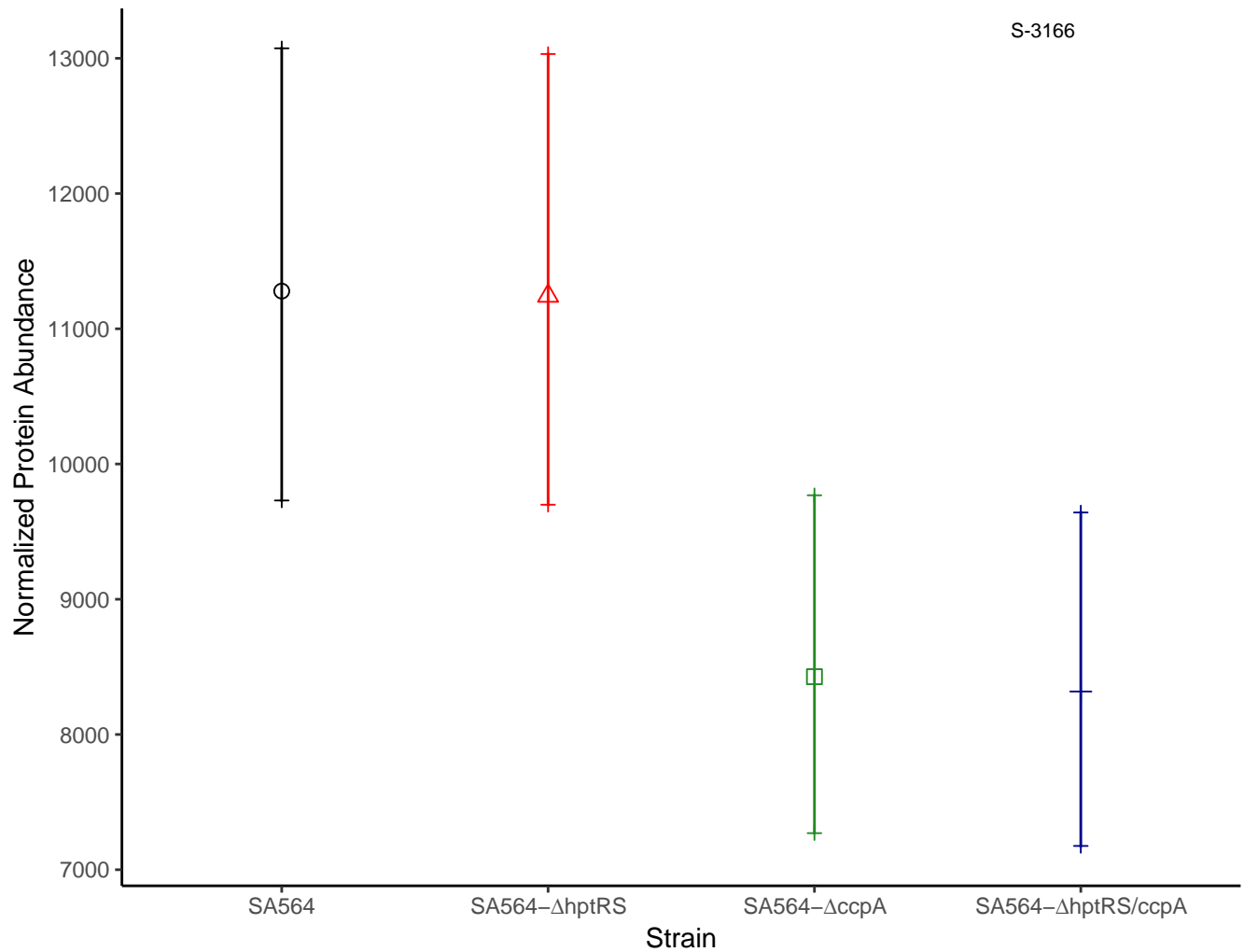
# GYRB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

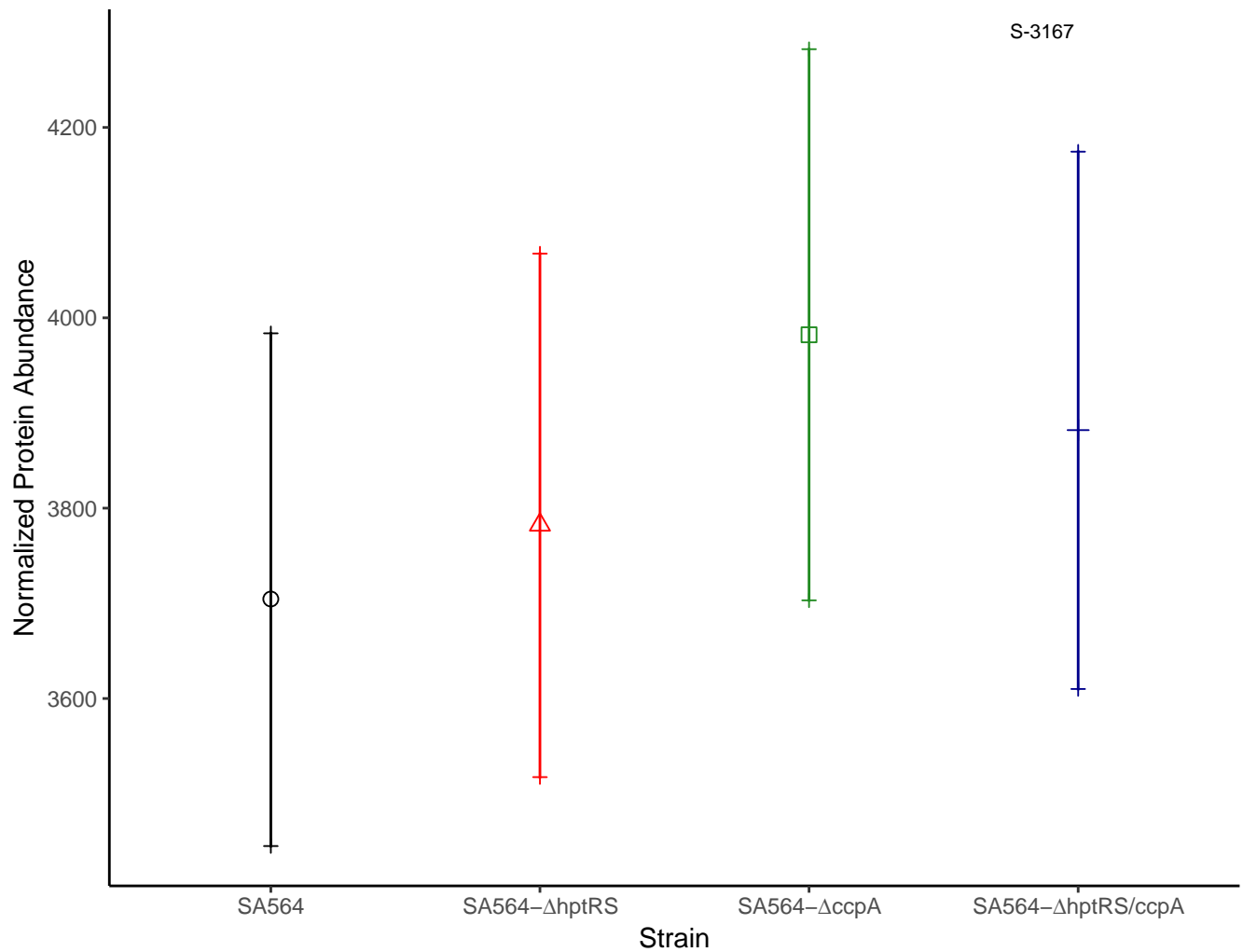
# HCHA\_STAAM

S-3166



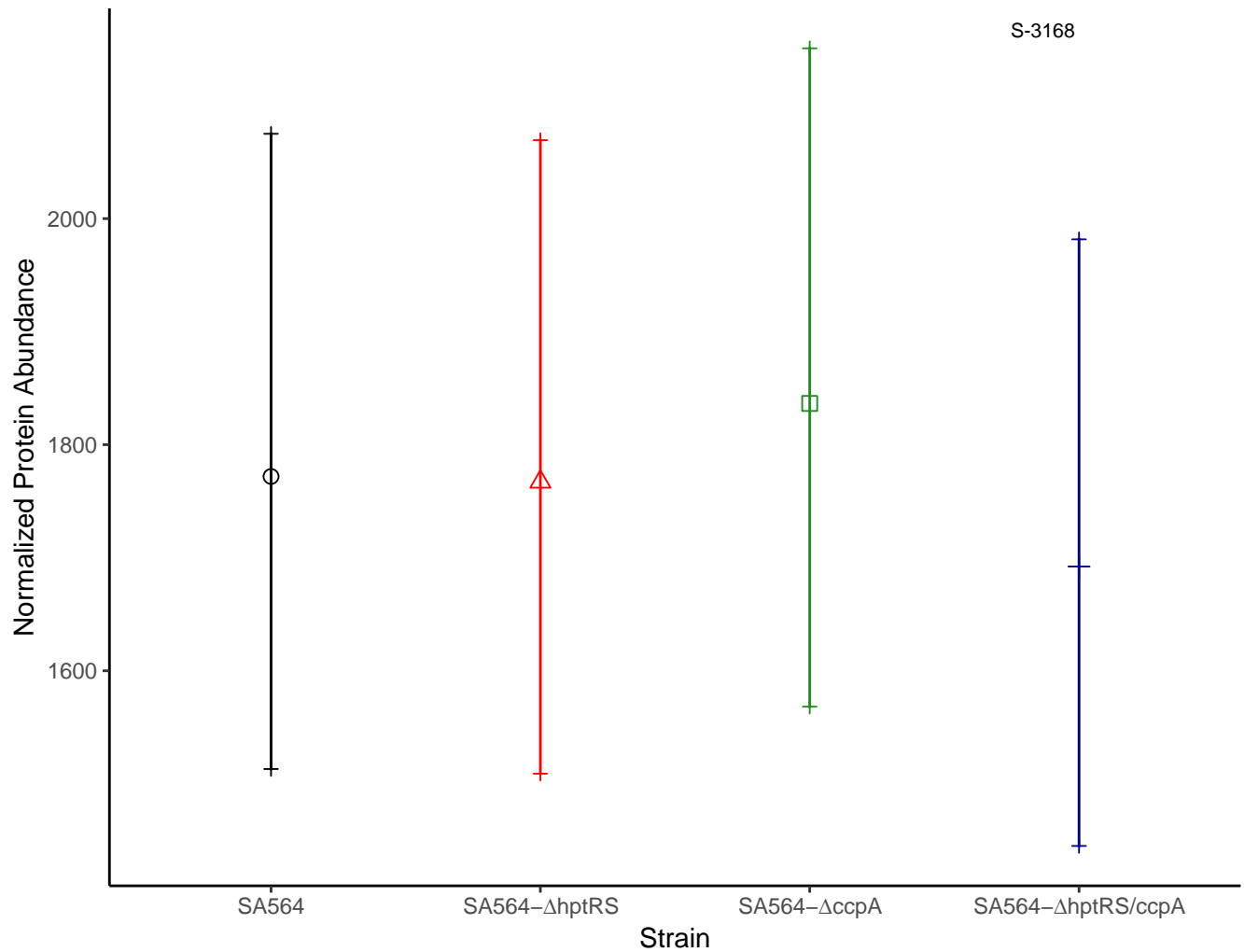
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HEM2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HEM3\_STAAM

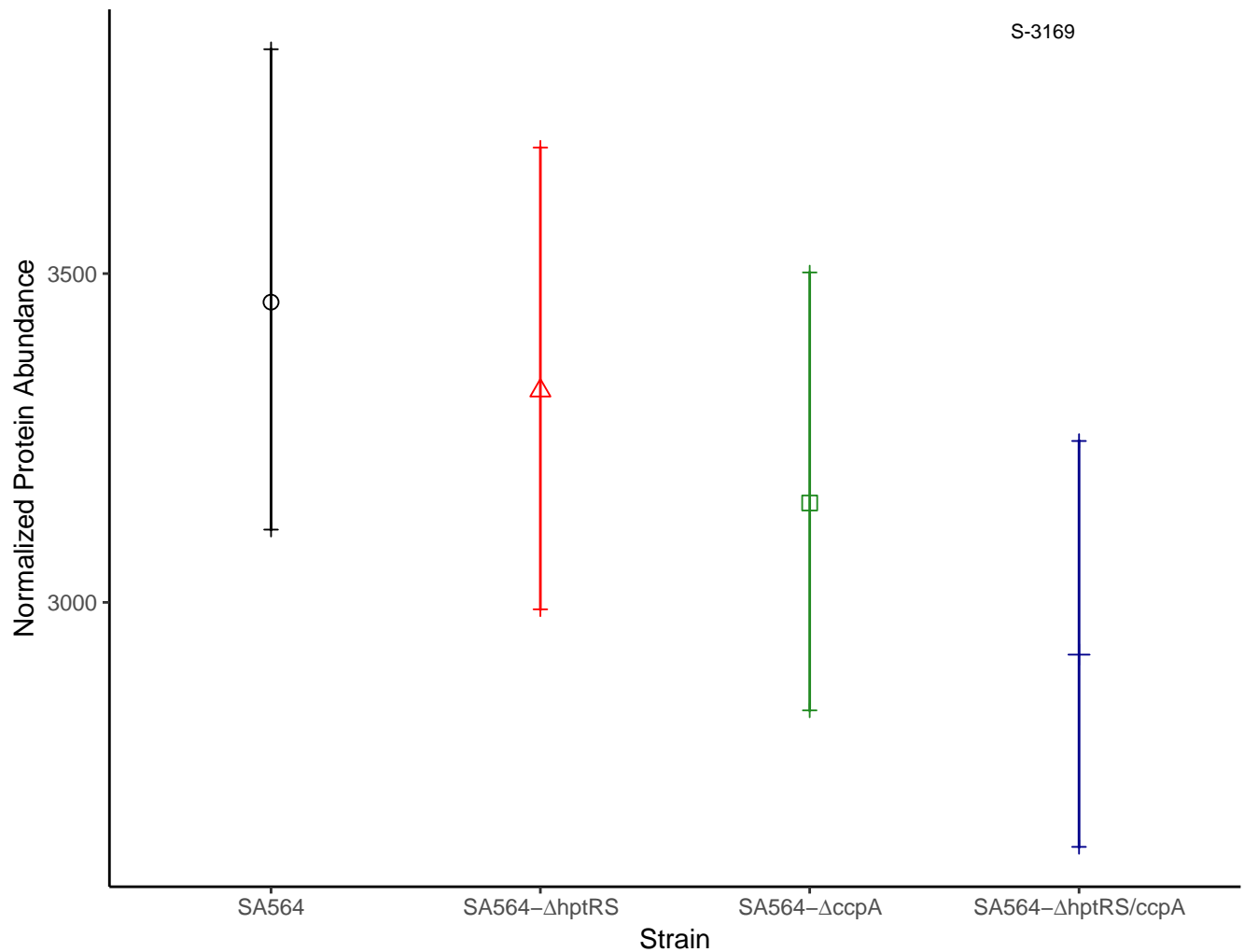


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



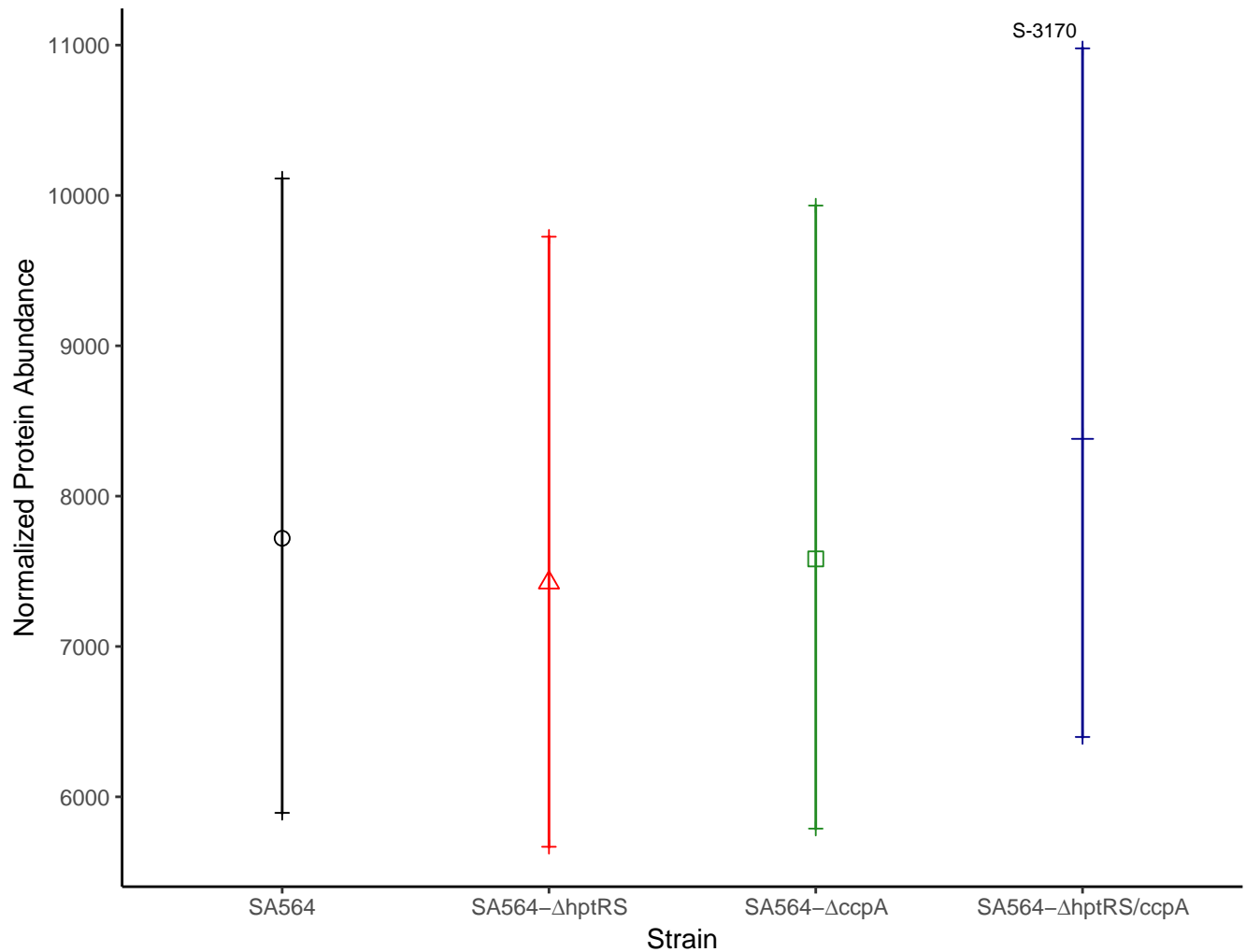
# HLD\_STAAM

S-3169



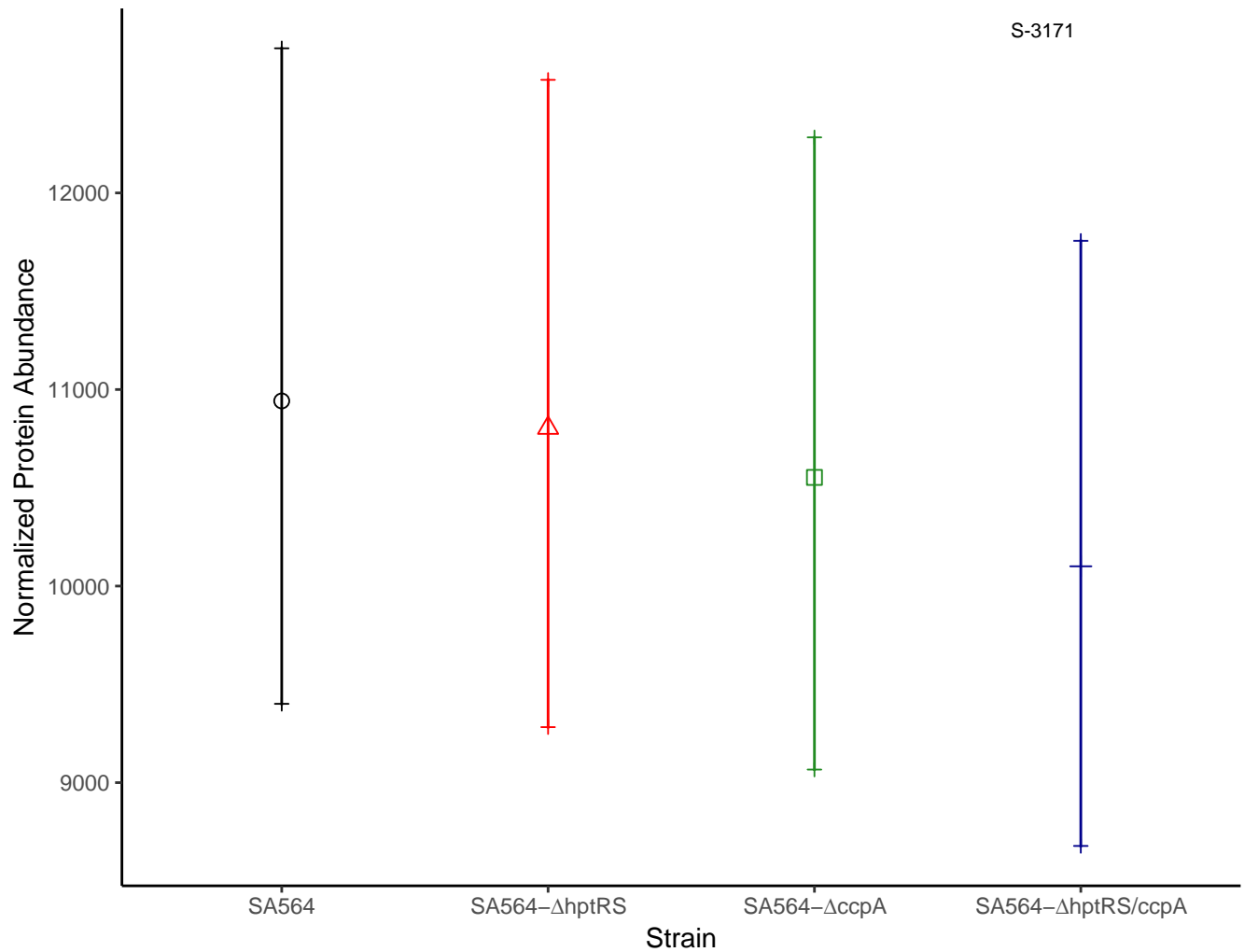
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HPRK\_STAAM



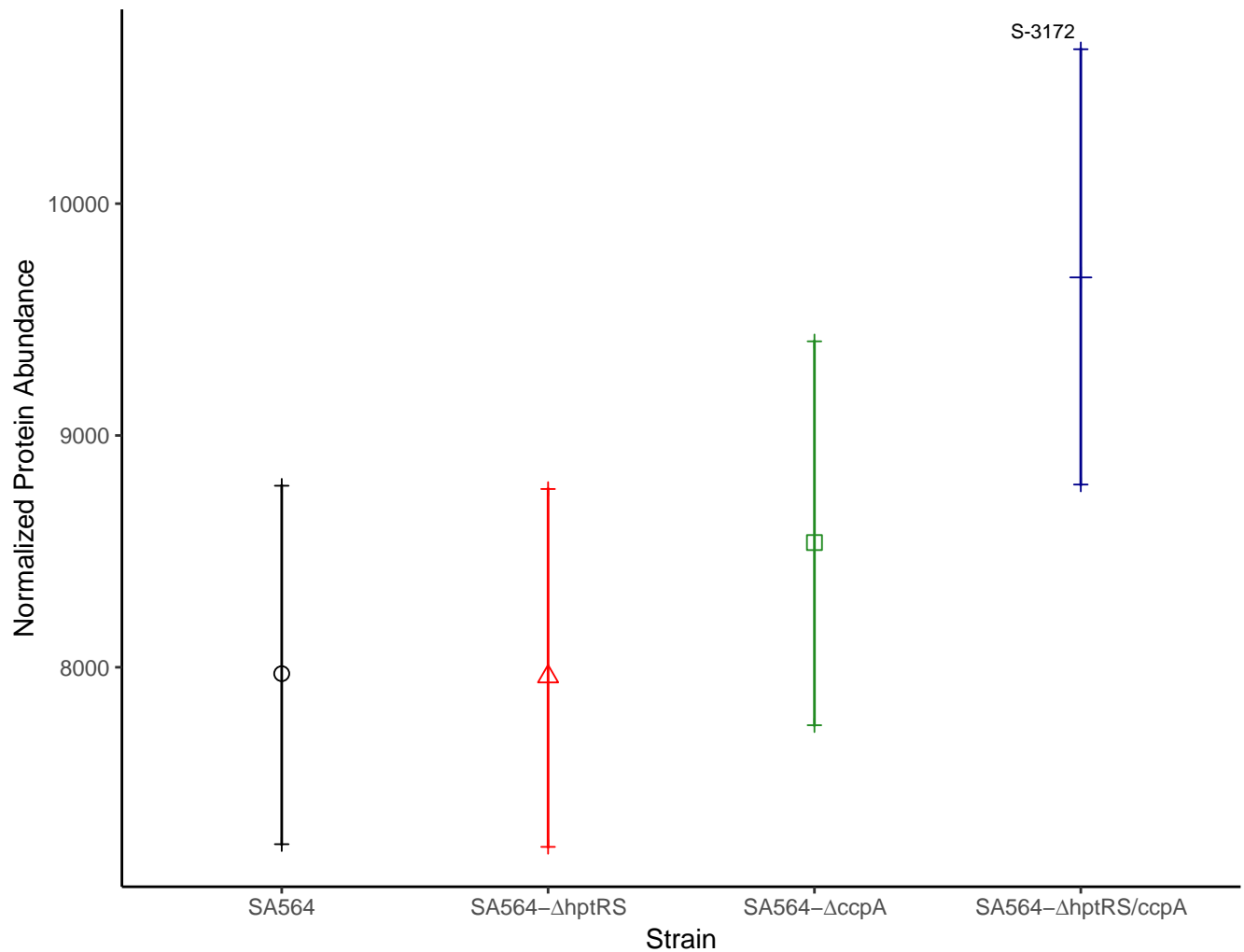
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HPRT\_STAAM



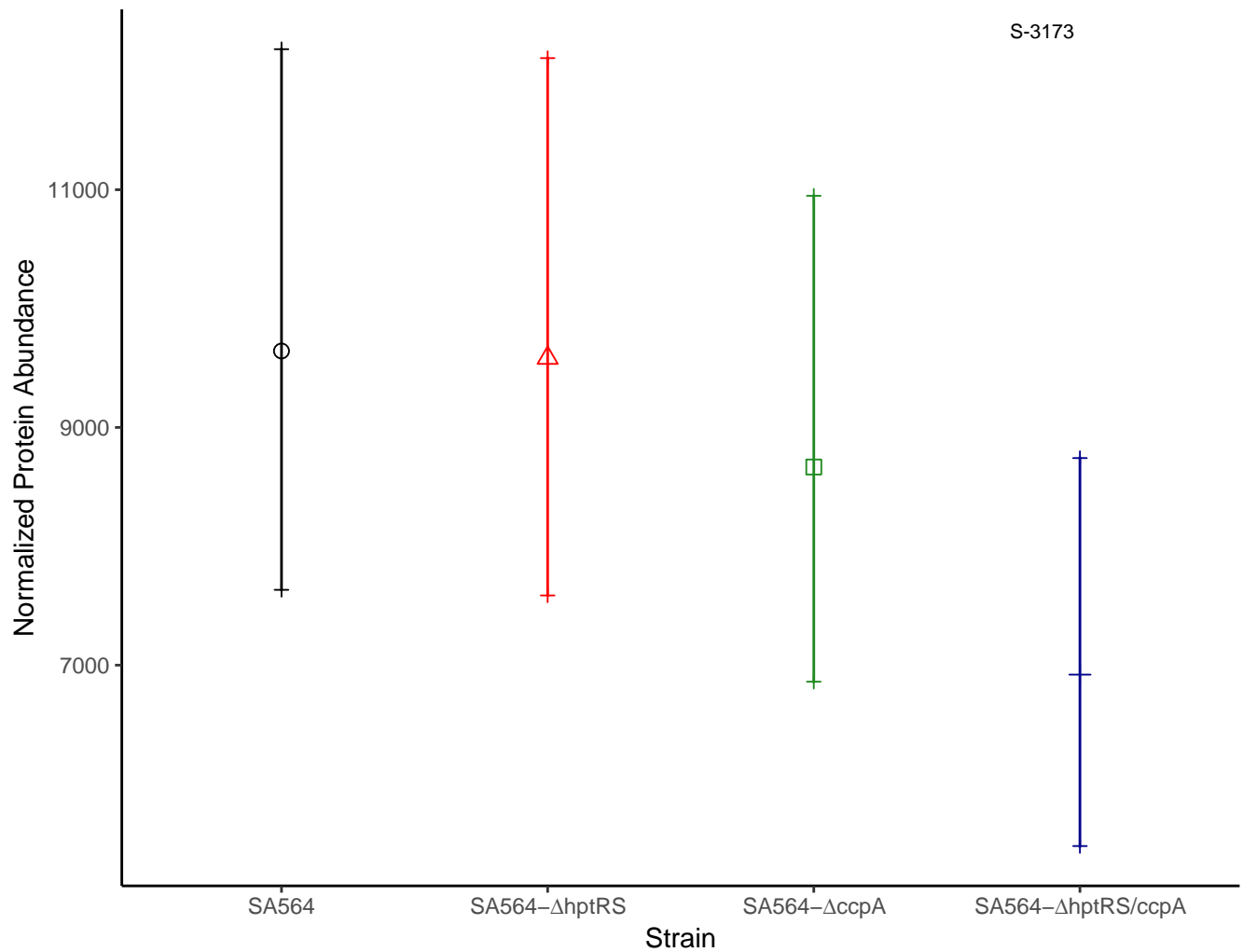
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HPS\_STAAM



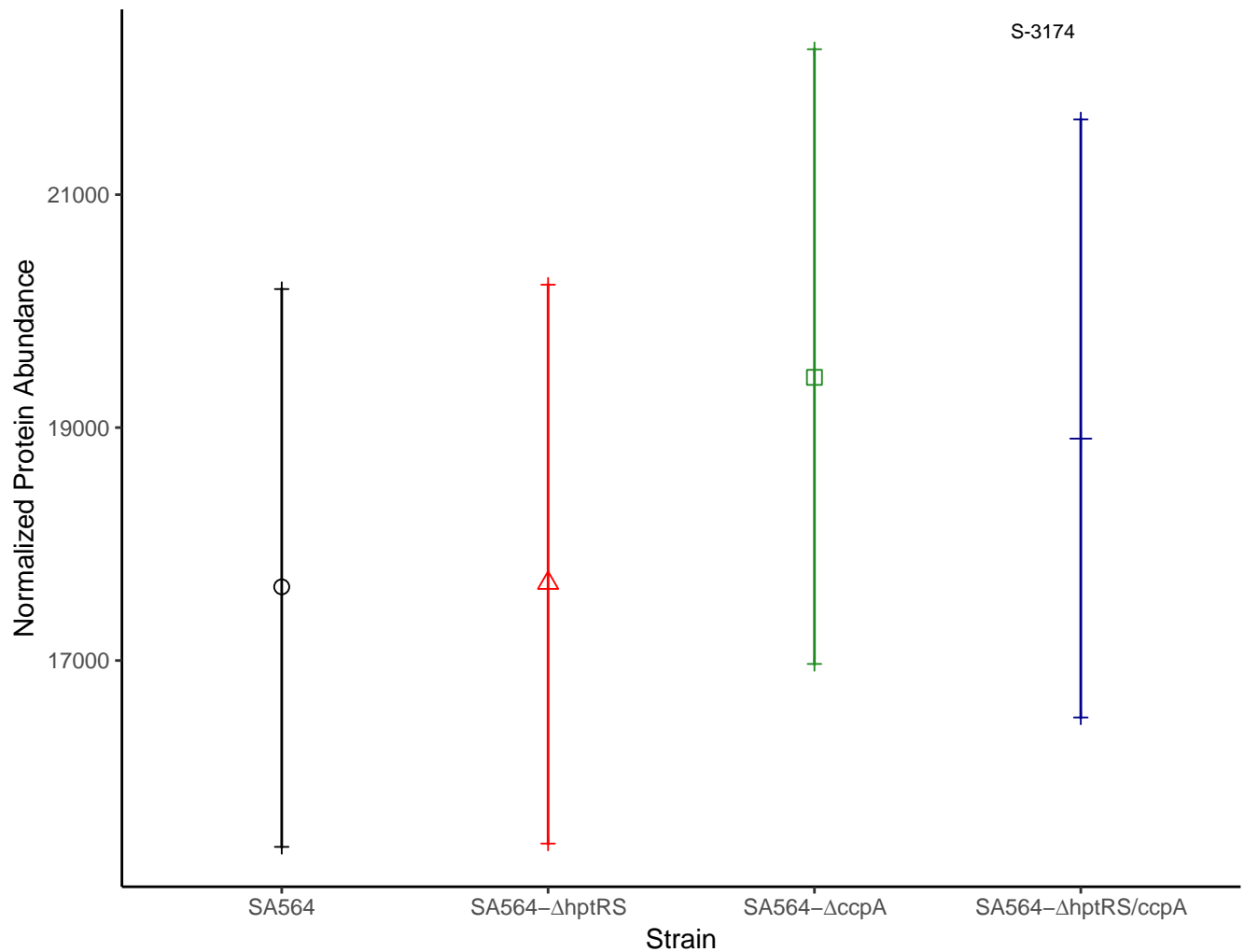
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HRTA\_STAAM



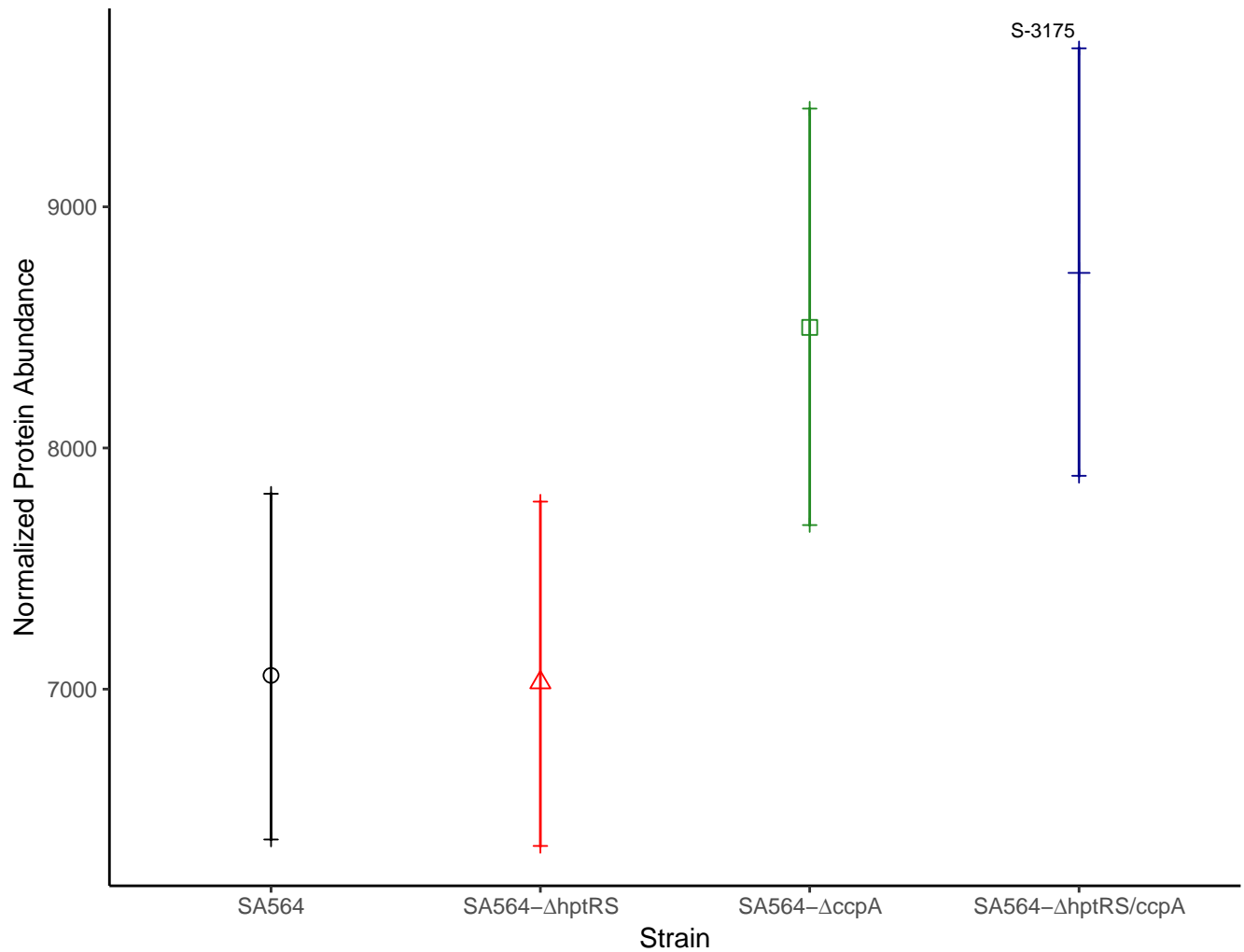
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# HSLO\_STAAM



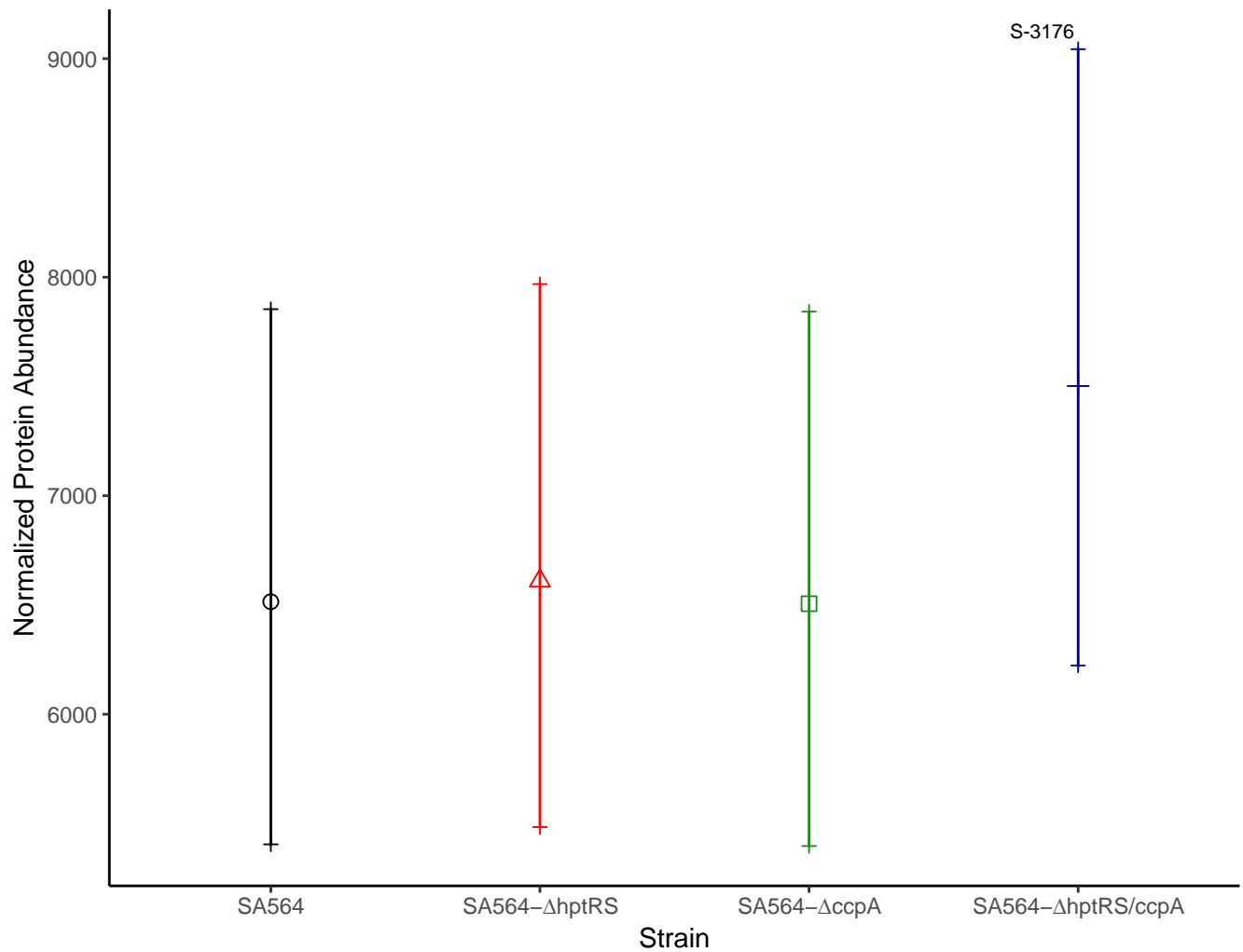
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HSLU\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

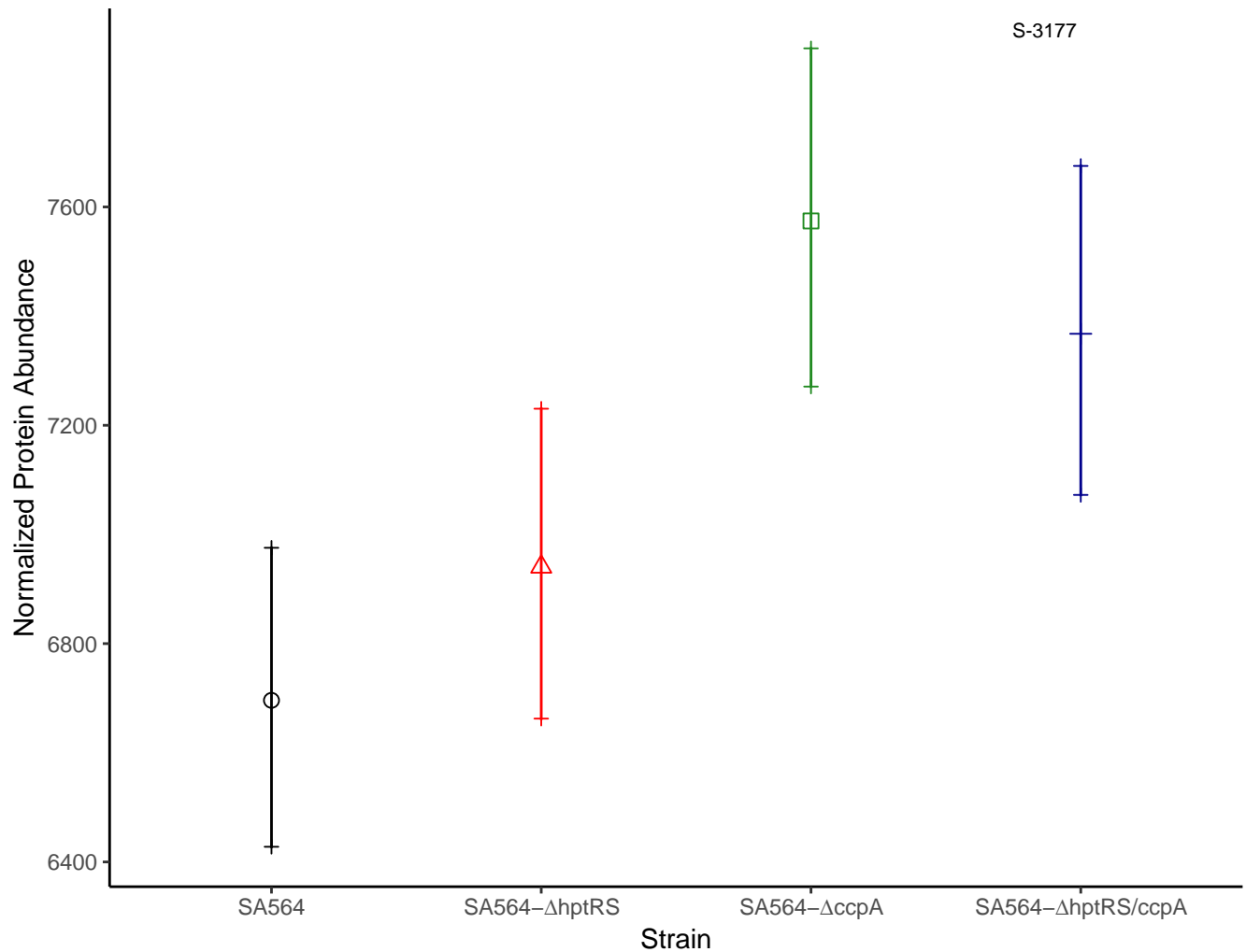
# HSLV\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

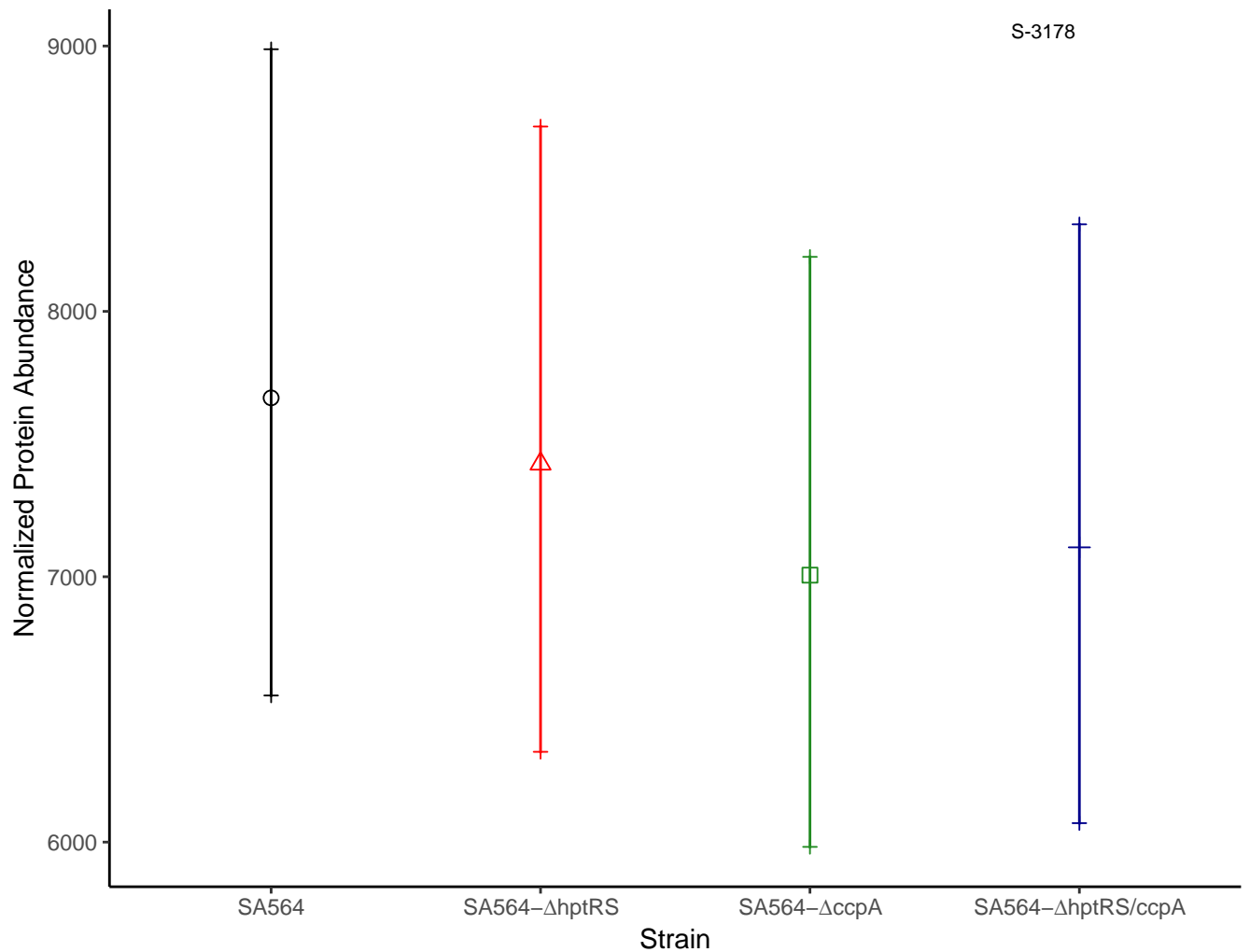


# HUTH\_STAAM



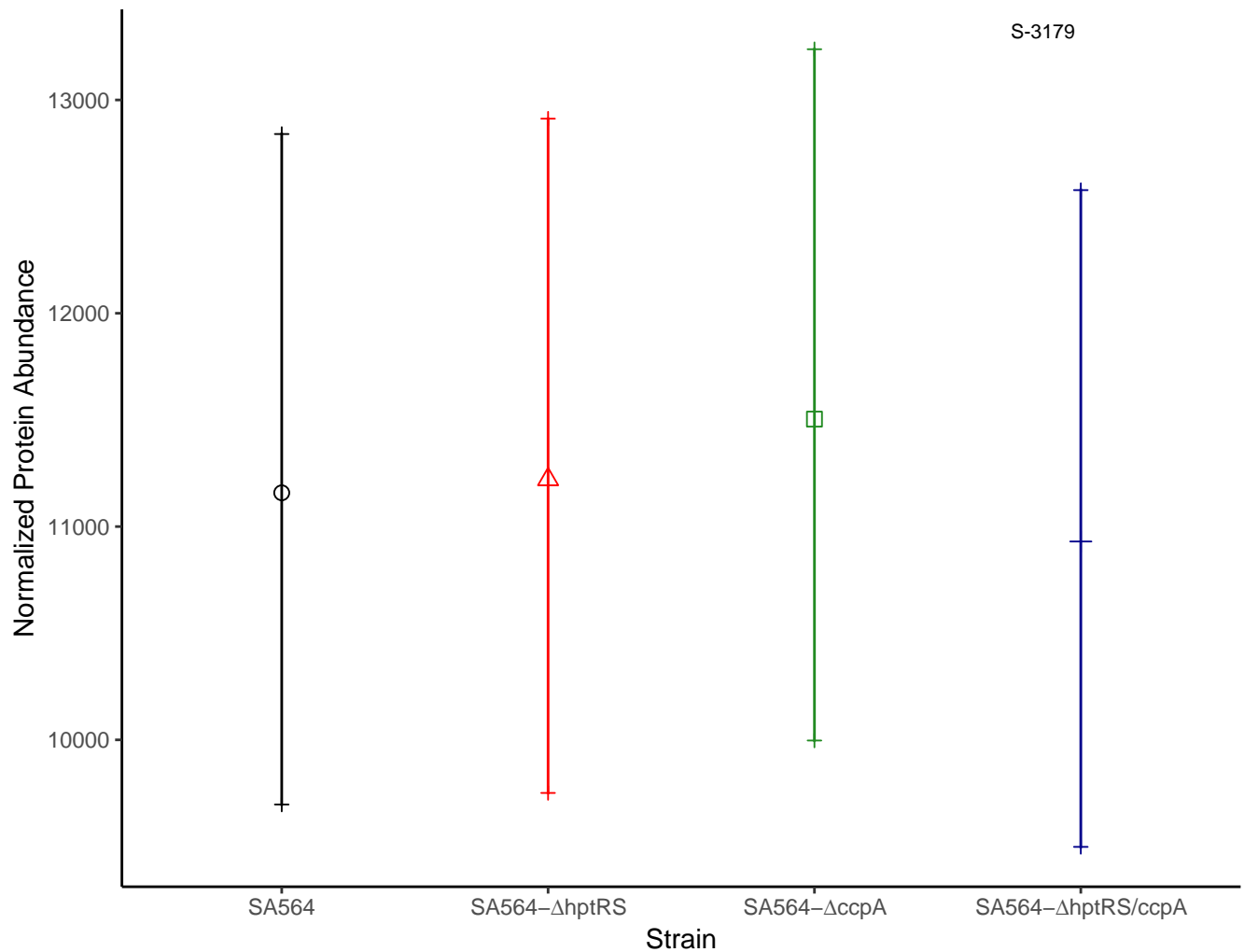
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HUTI\_STAAM



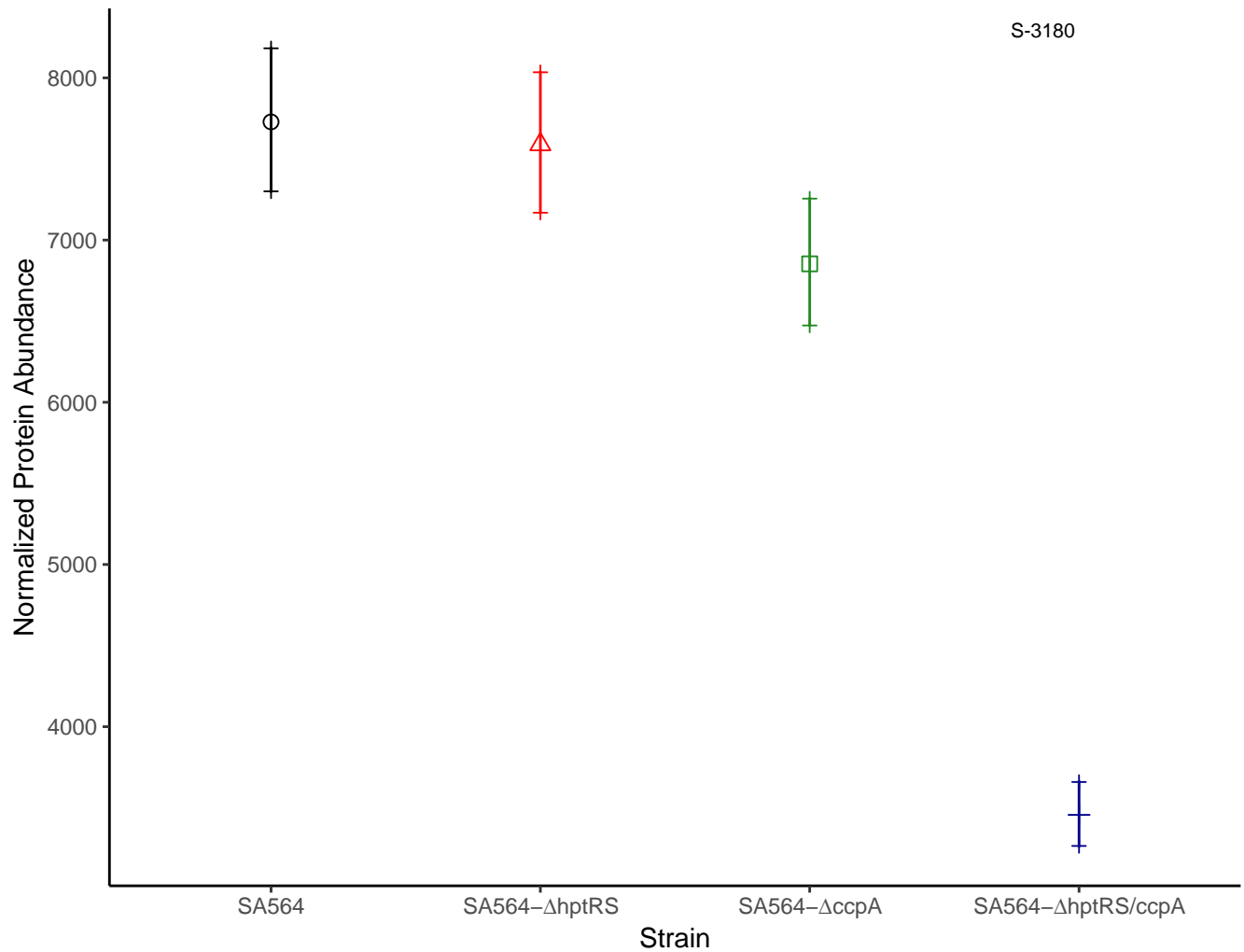
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# HUTU\_STAAM



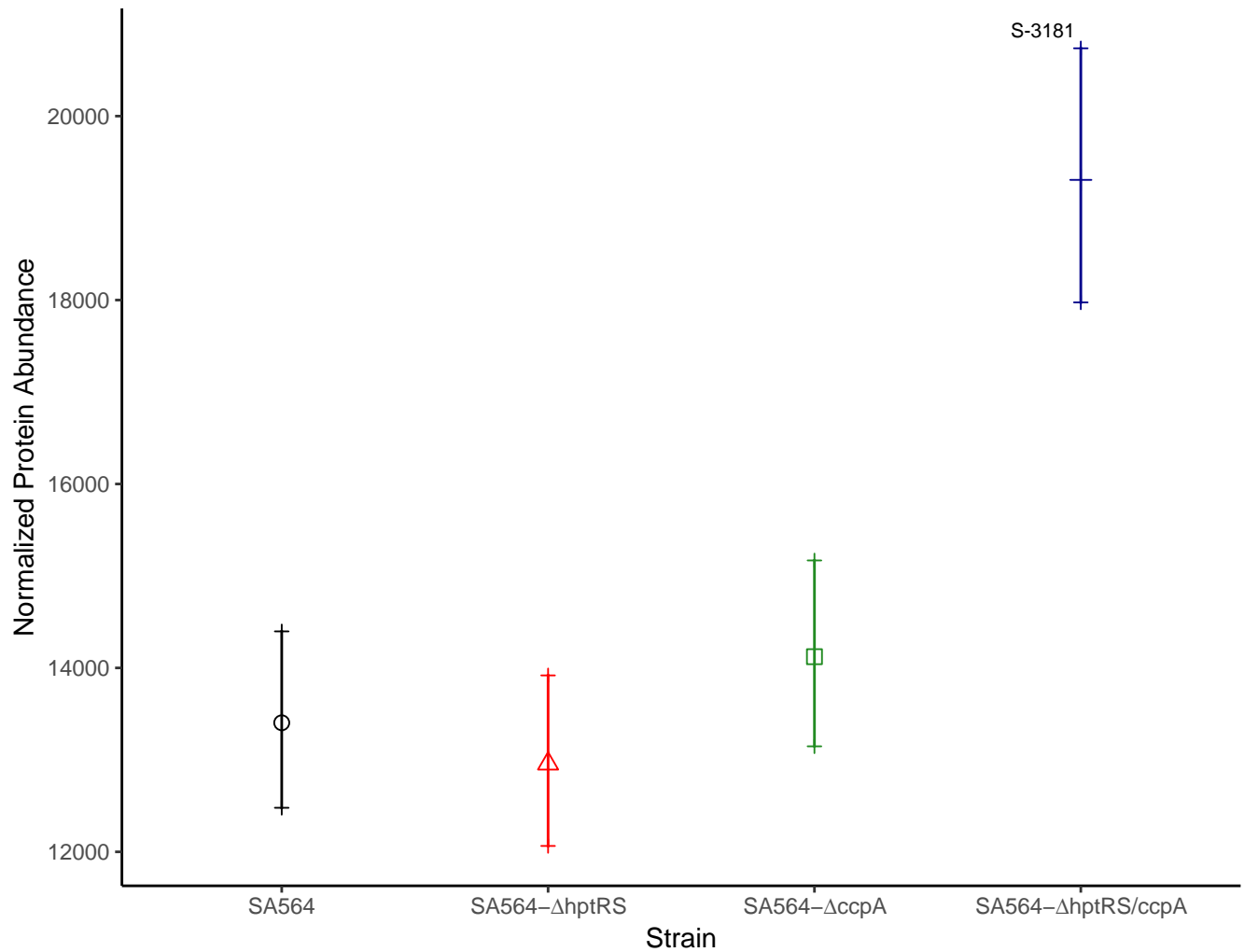
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ICAB\_STAAM



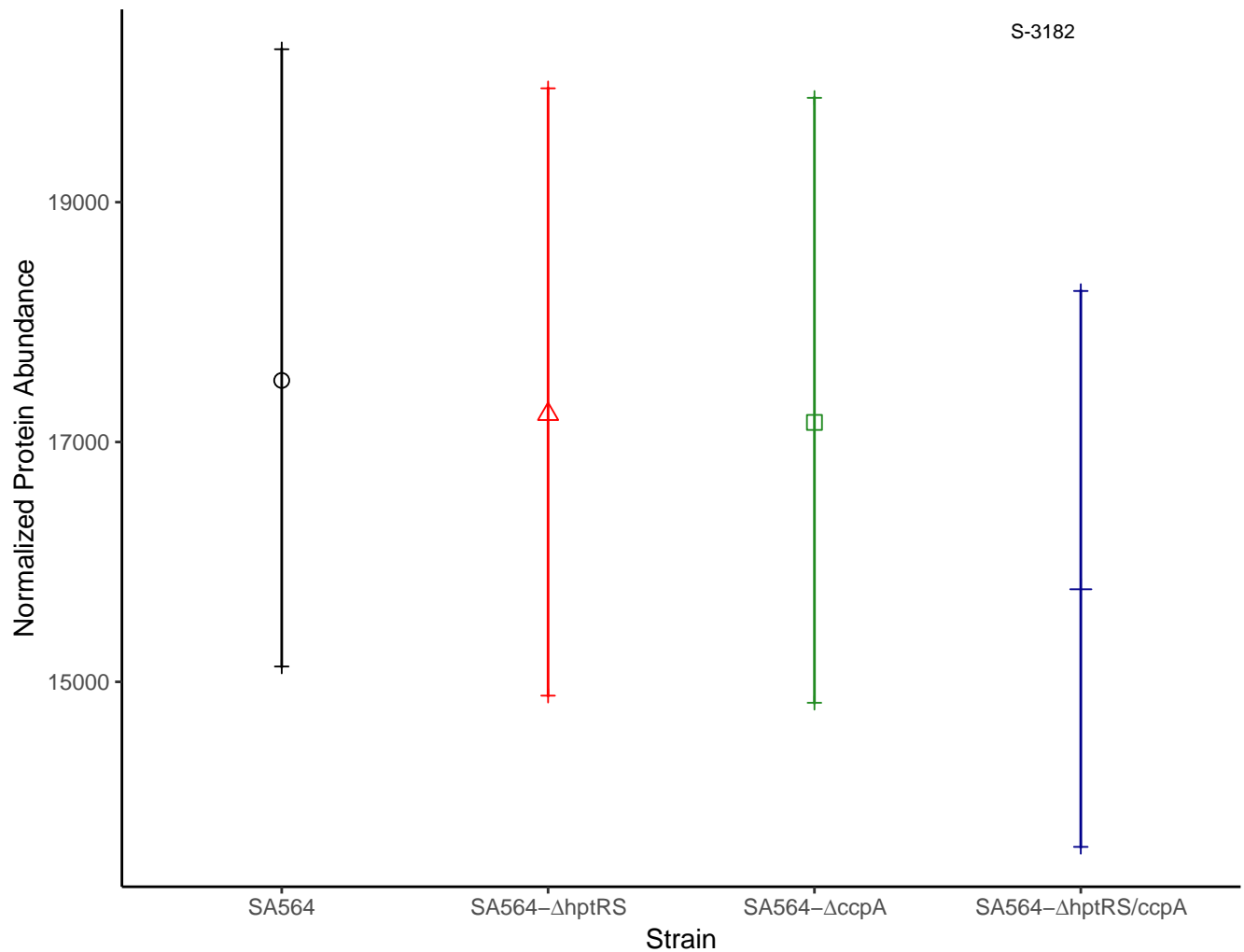
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IDH\_STAAM



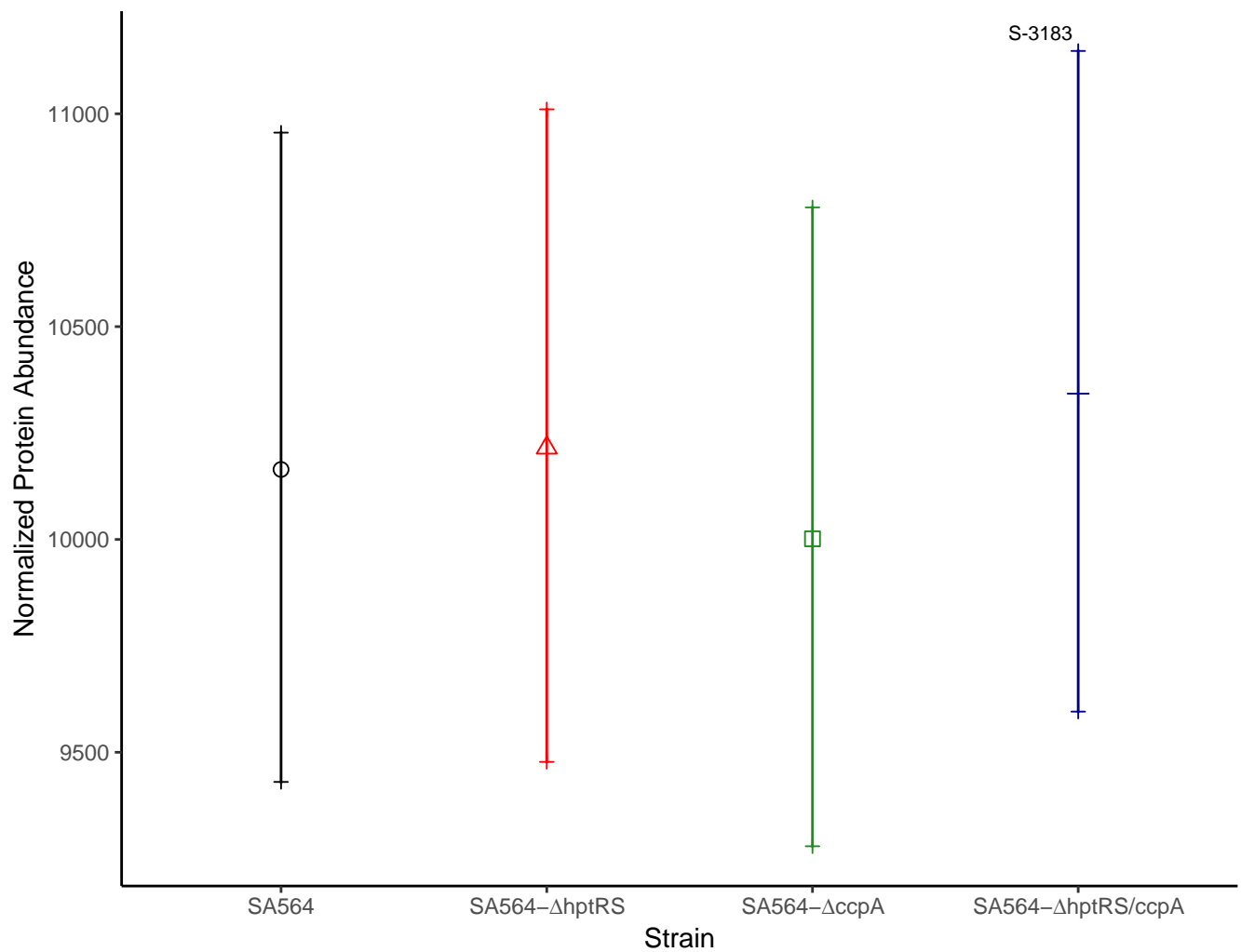
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IF1\_STAAM



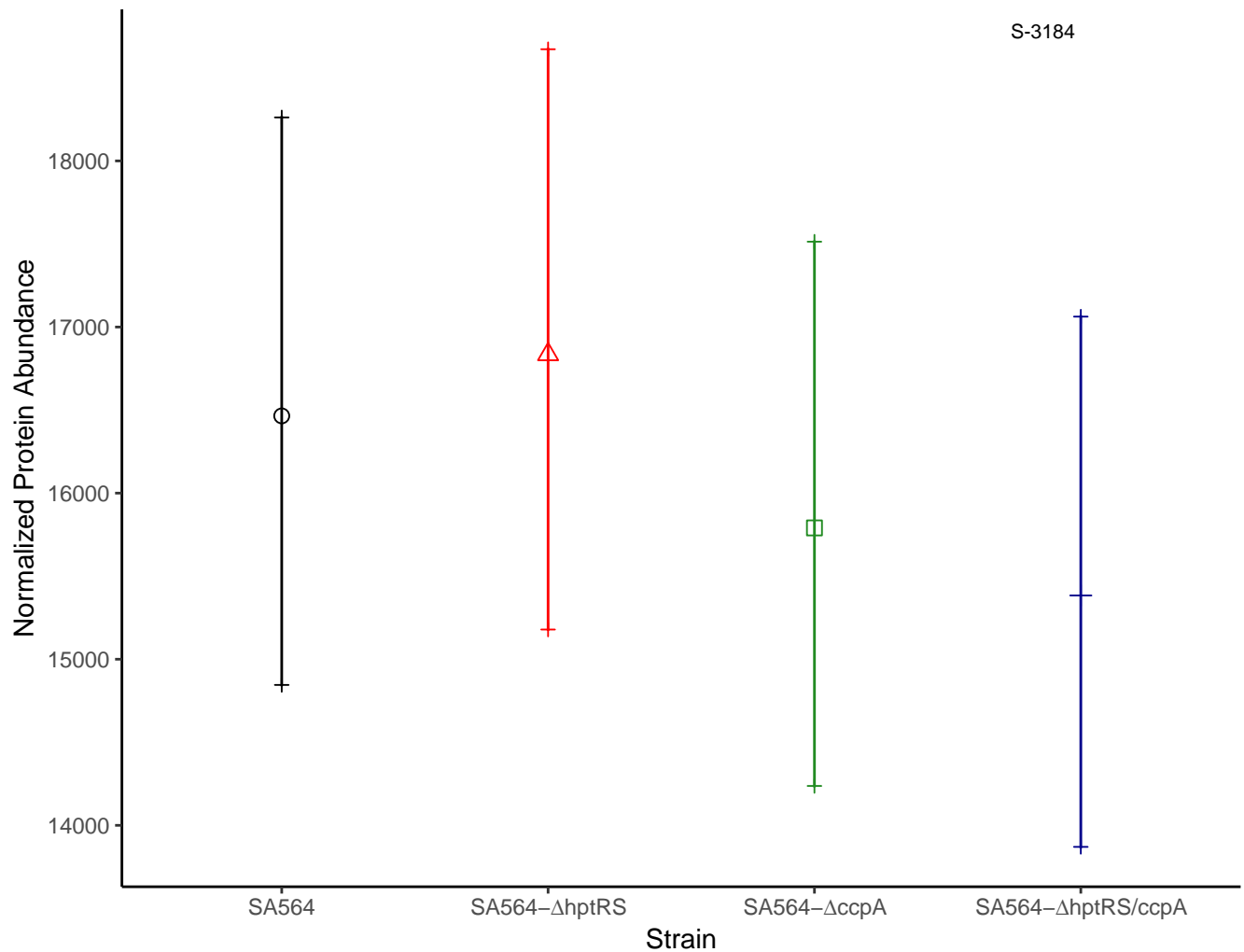
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IF2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IF3\_STAAM

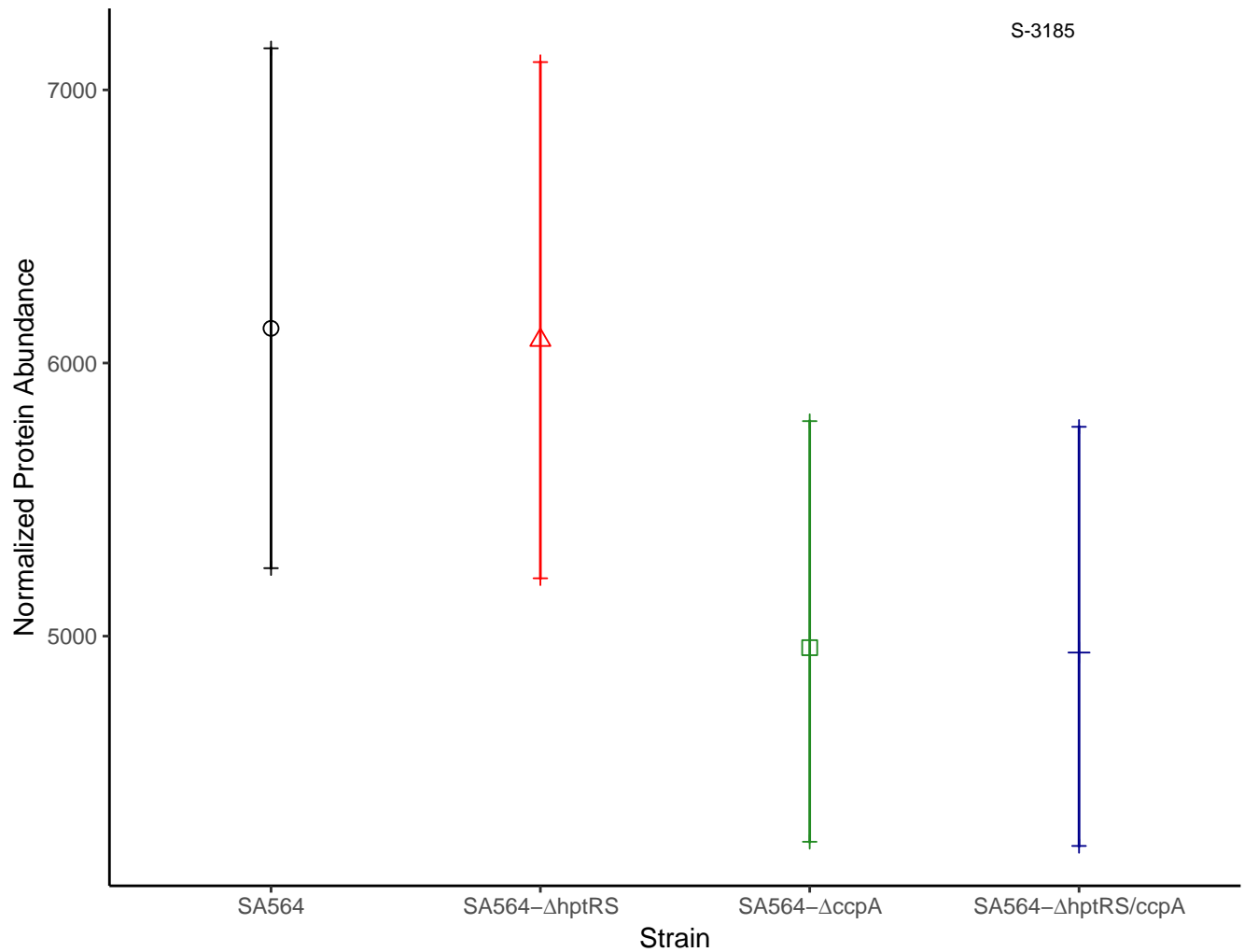


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



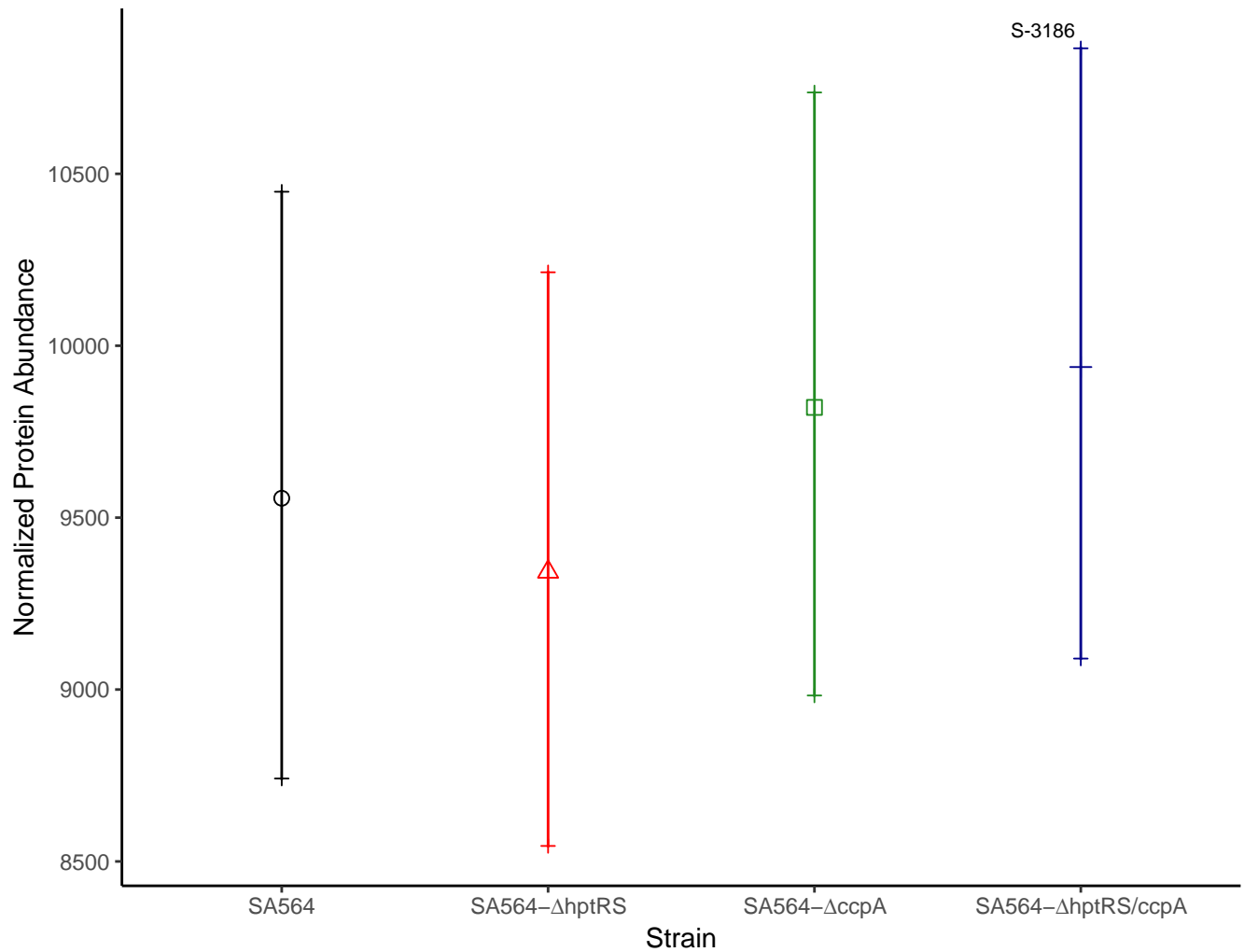
# ILVC\_STAAM

S-3185



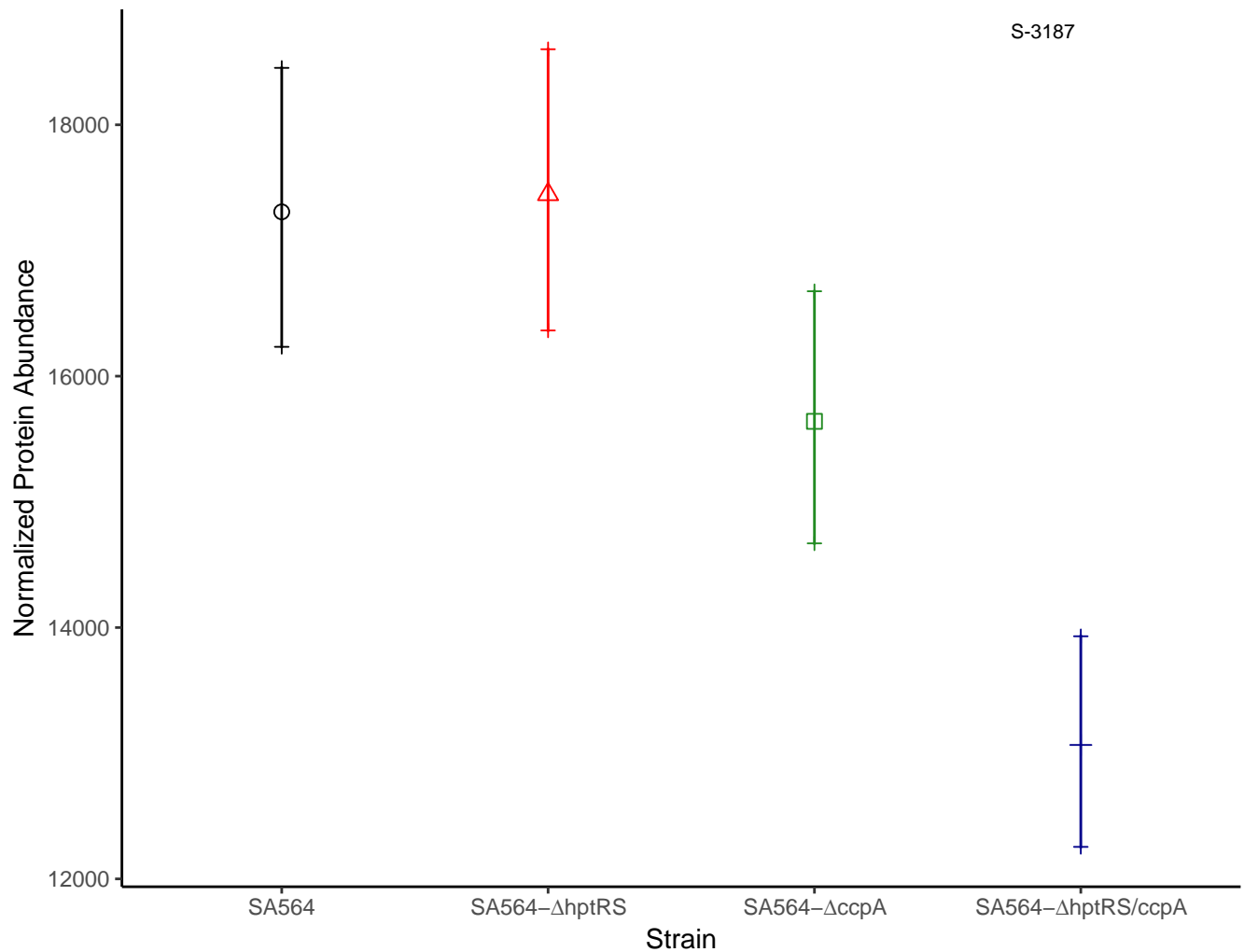
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ILVE\_STAAM



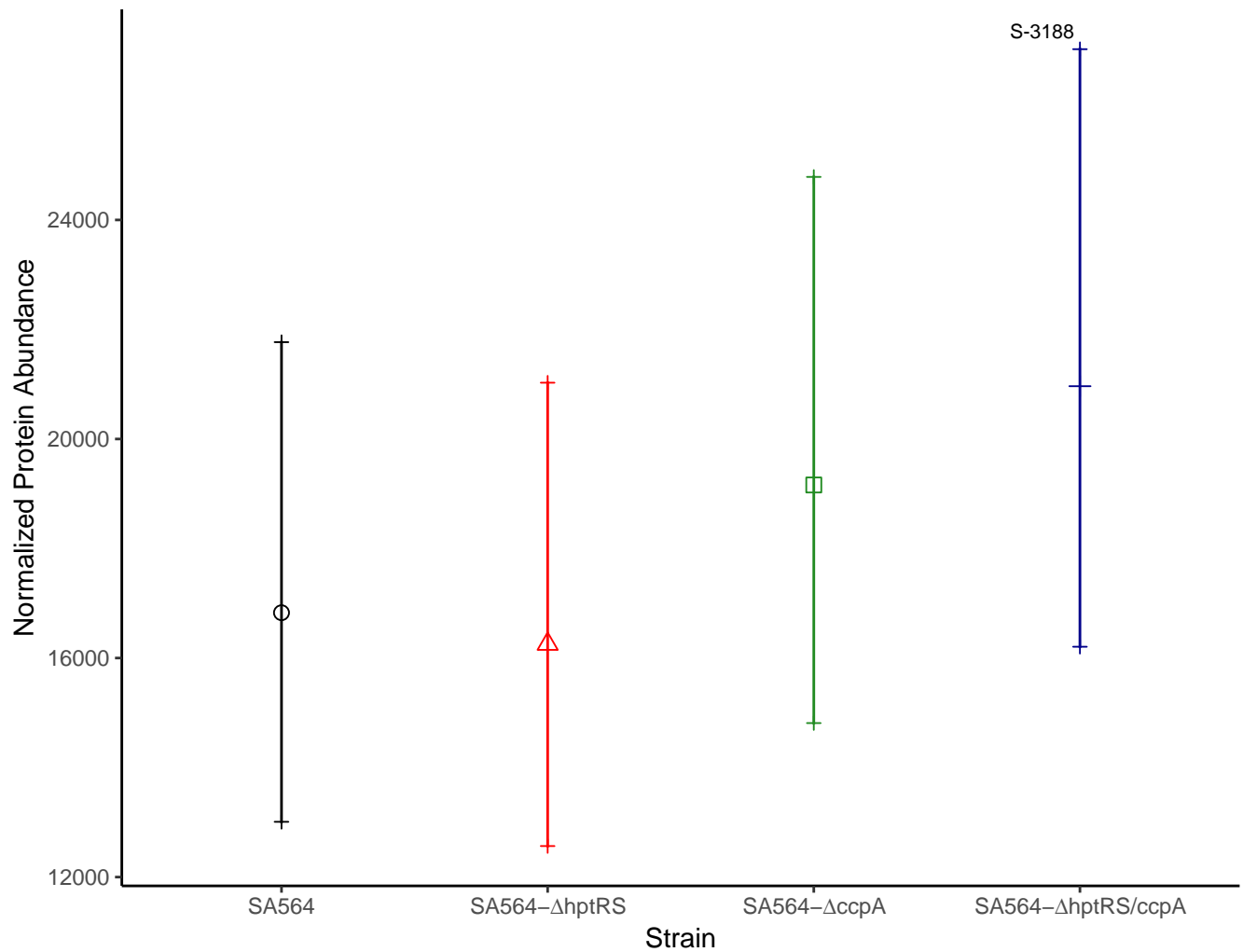
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# IMDH\_STAAM



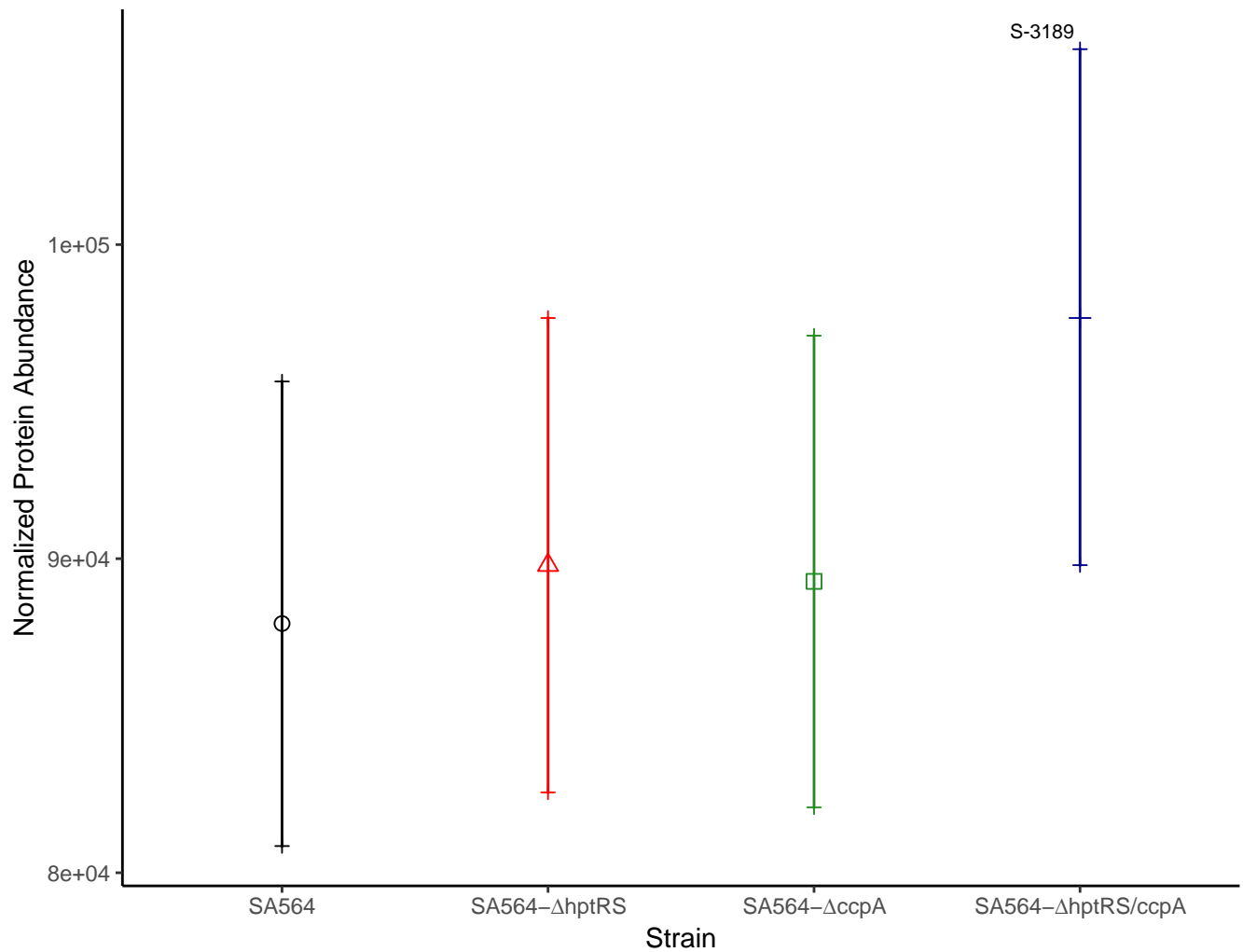
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ISAA\_STAAM



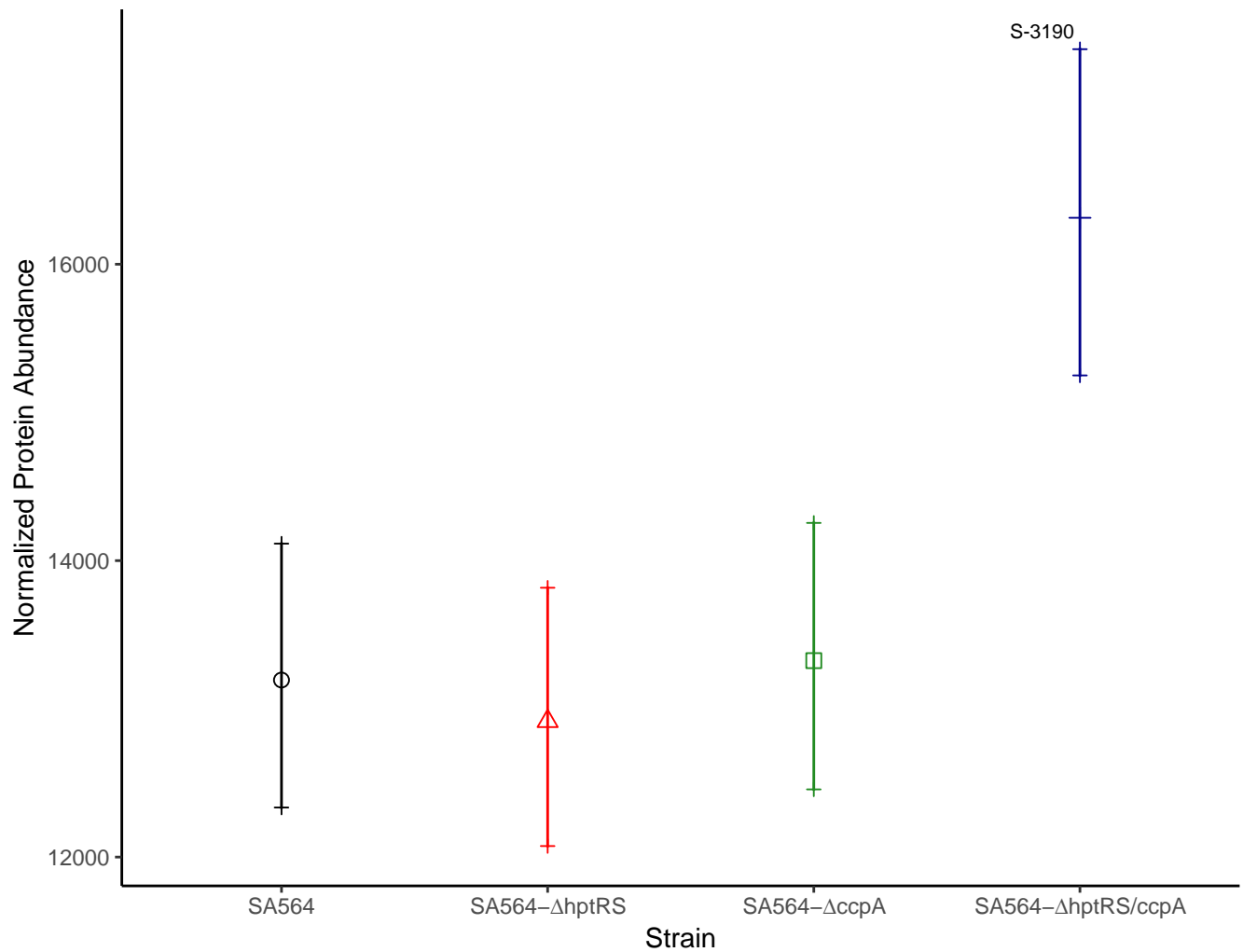
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# ISPD1\_STAAM



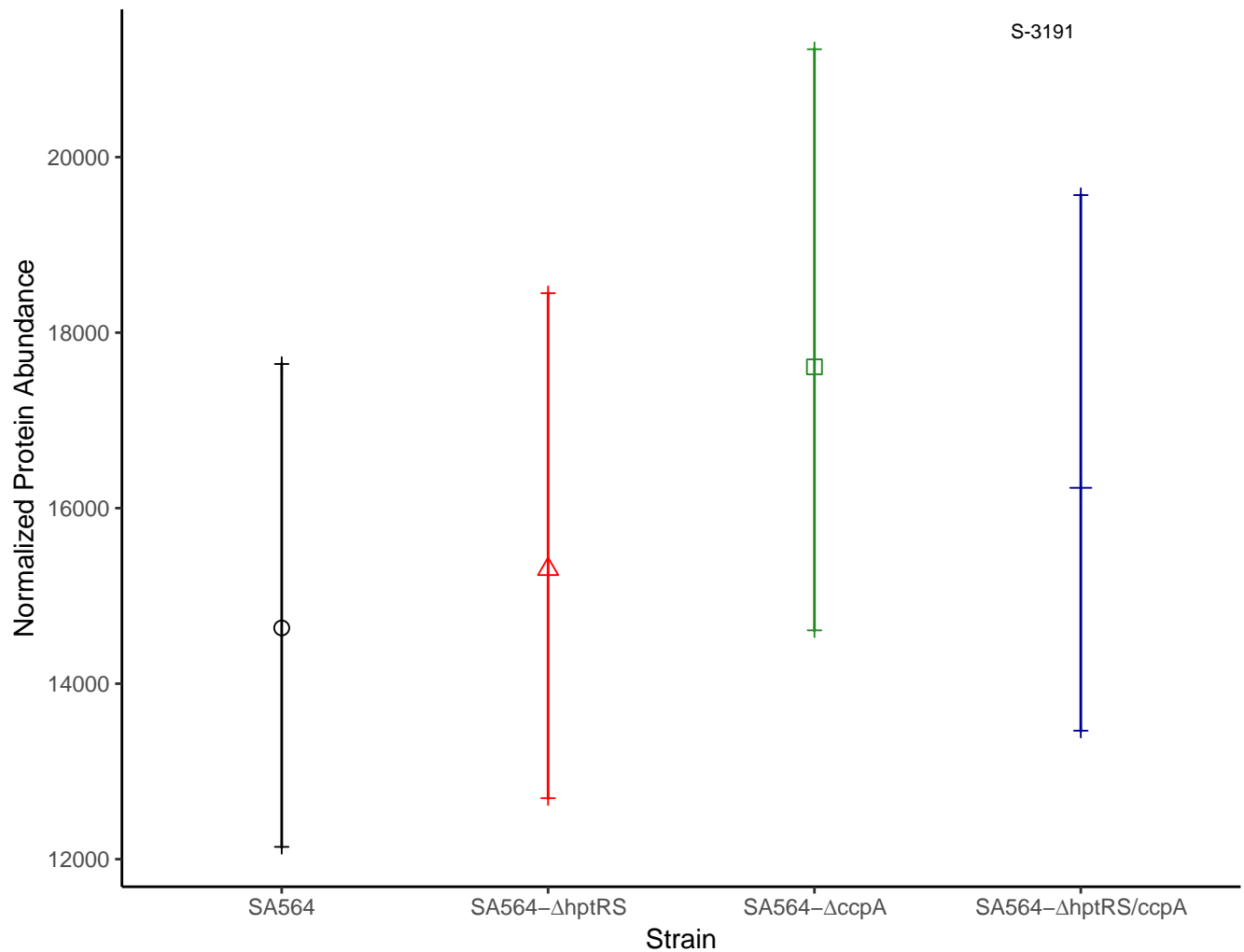
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# ISPD2\_STAAM



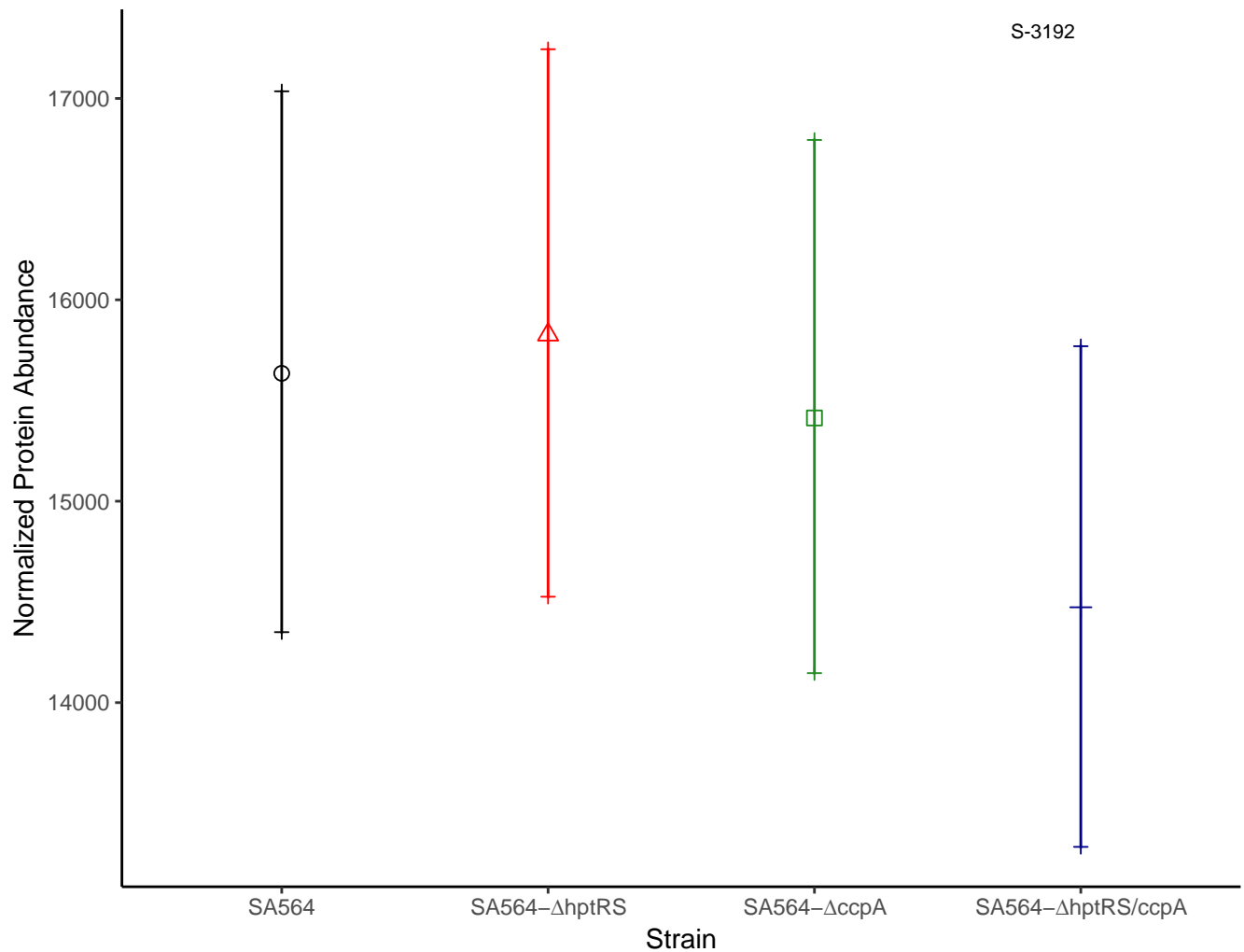
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ISPE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

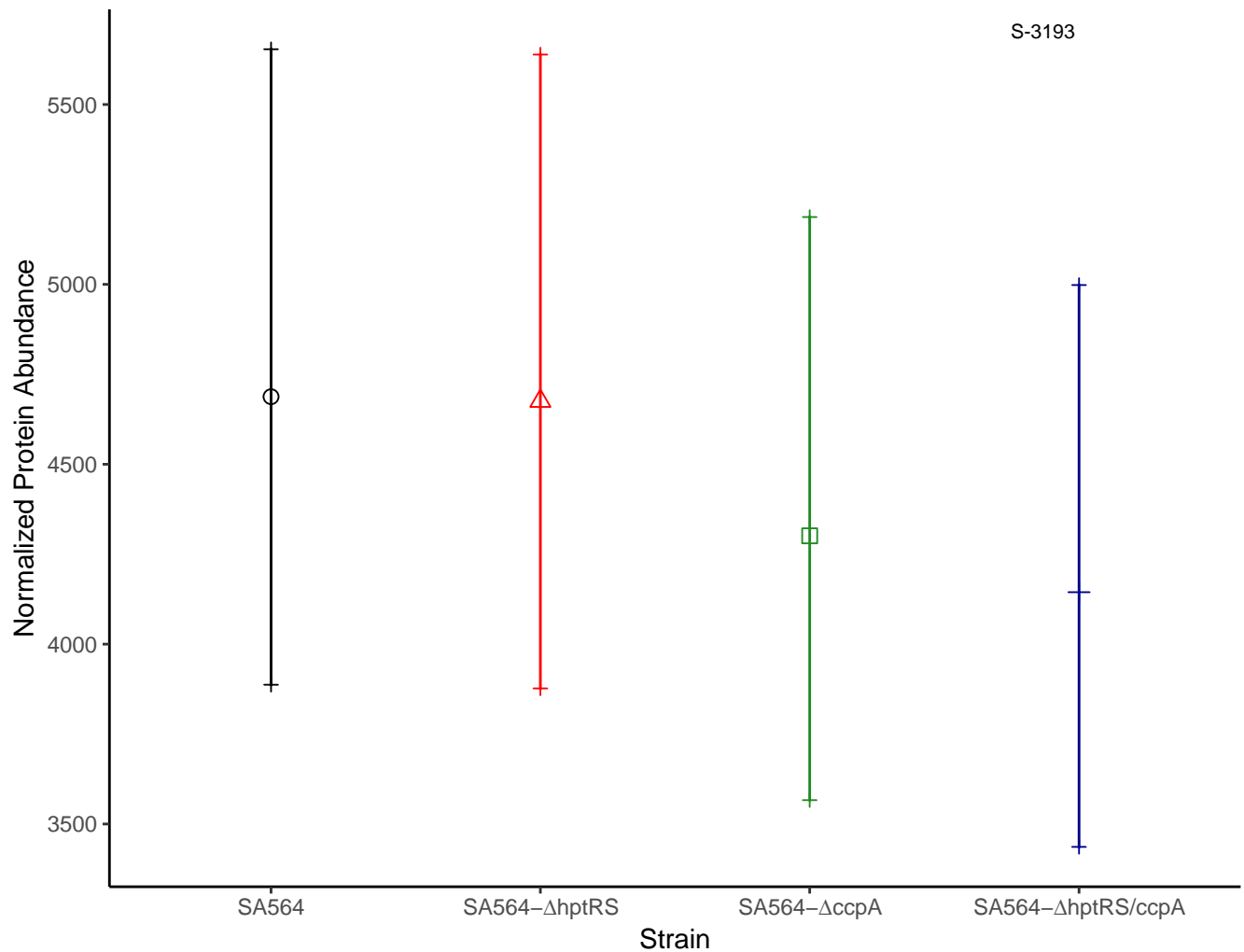
# KAD\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

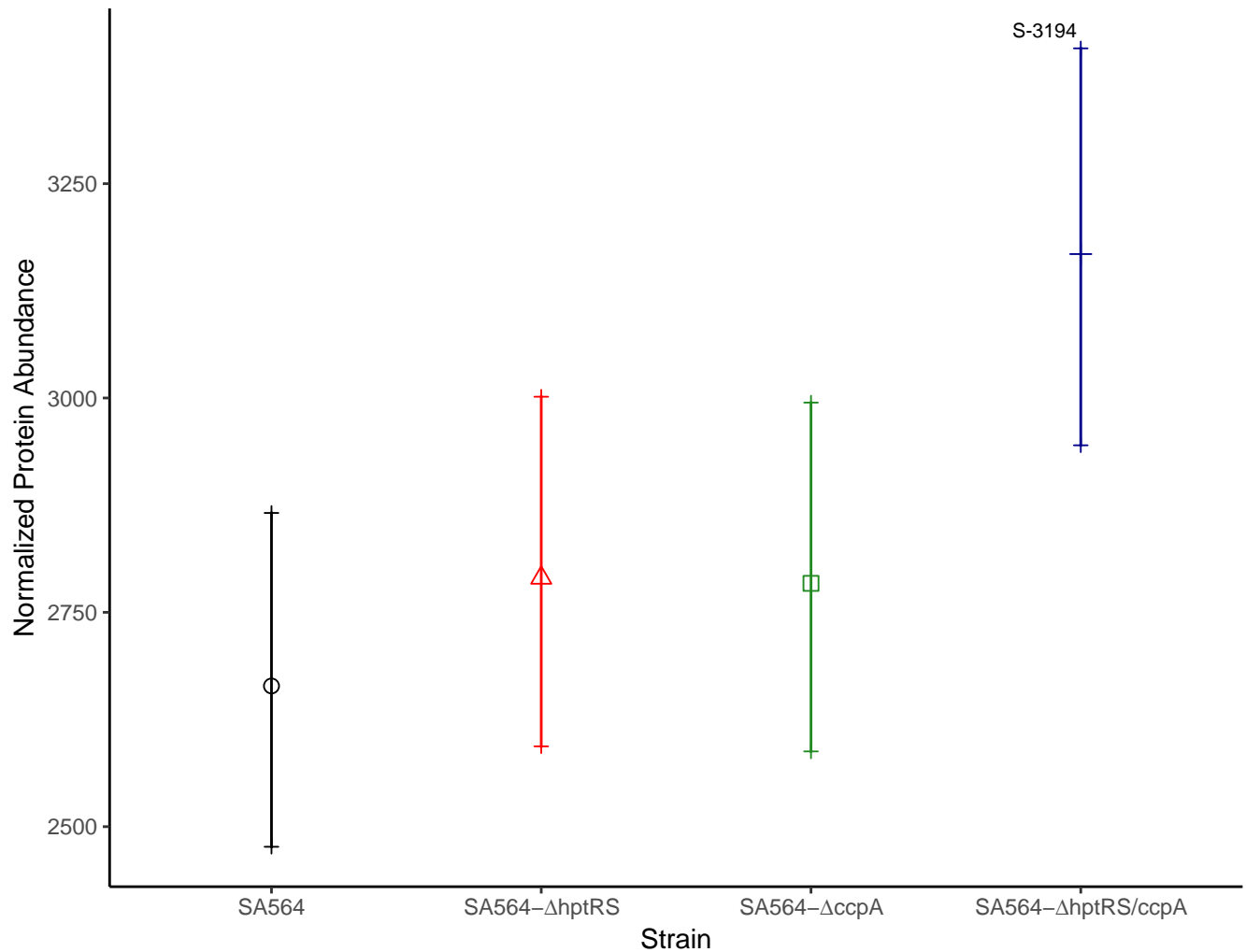


# KCY\_STAAM



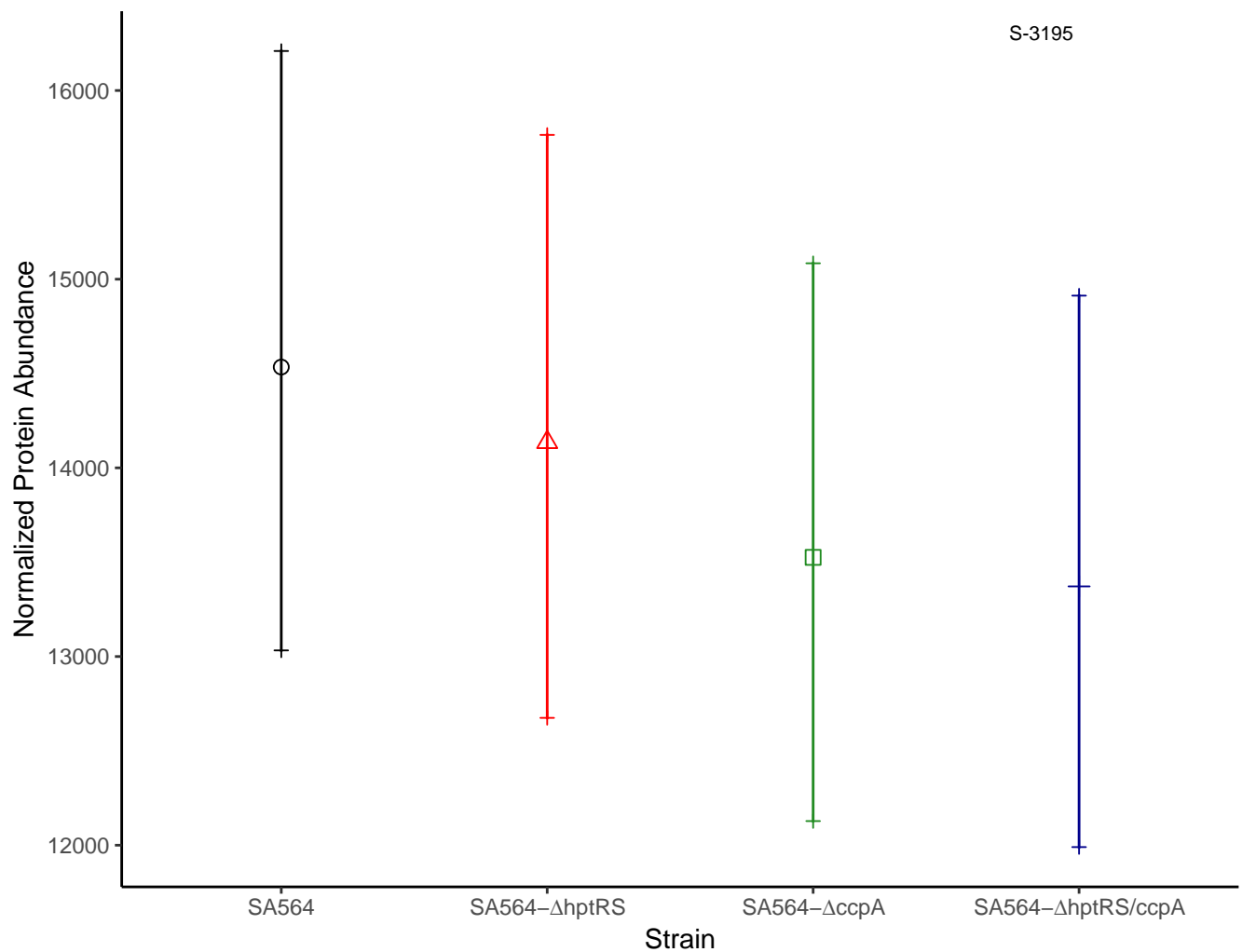
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# KITH\_STAAM



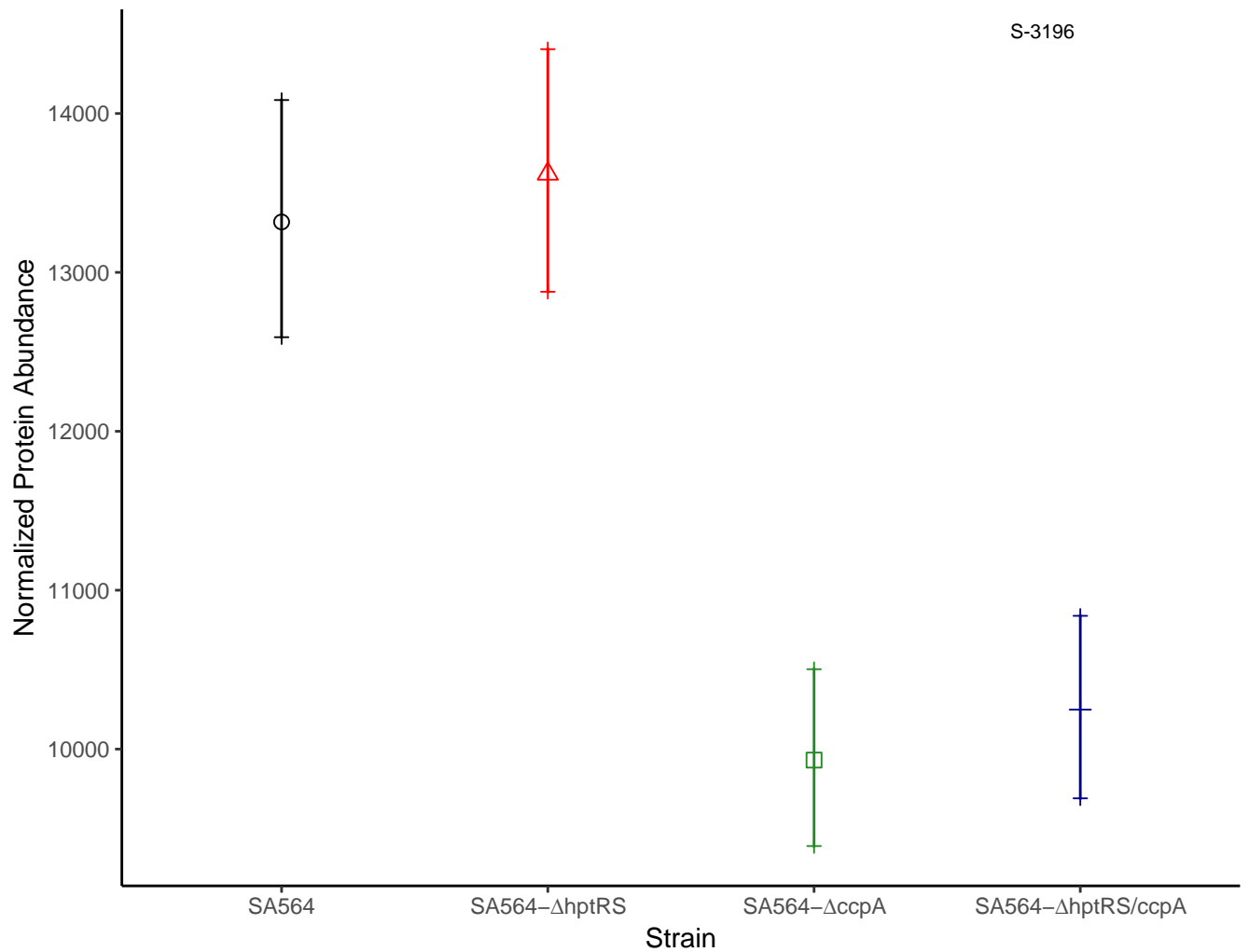
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# KPRS\_STAAM



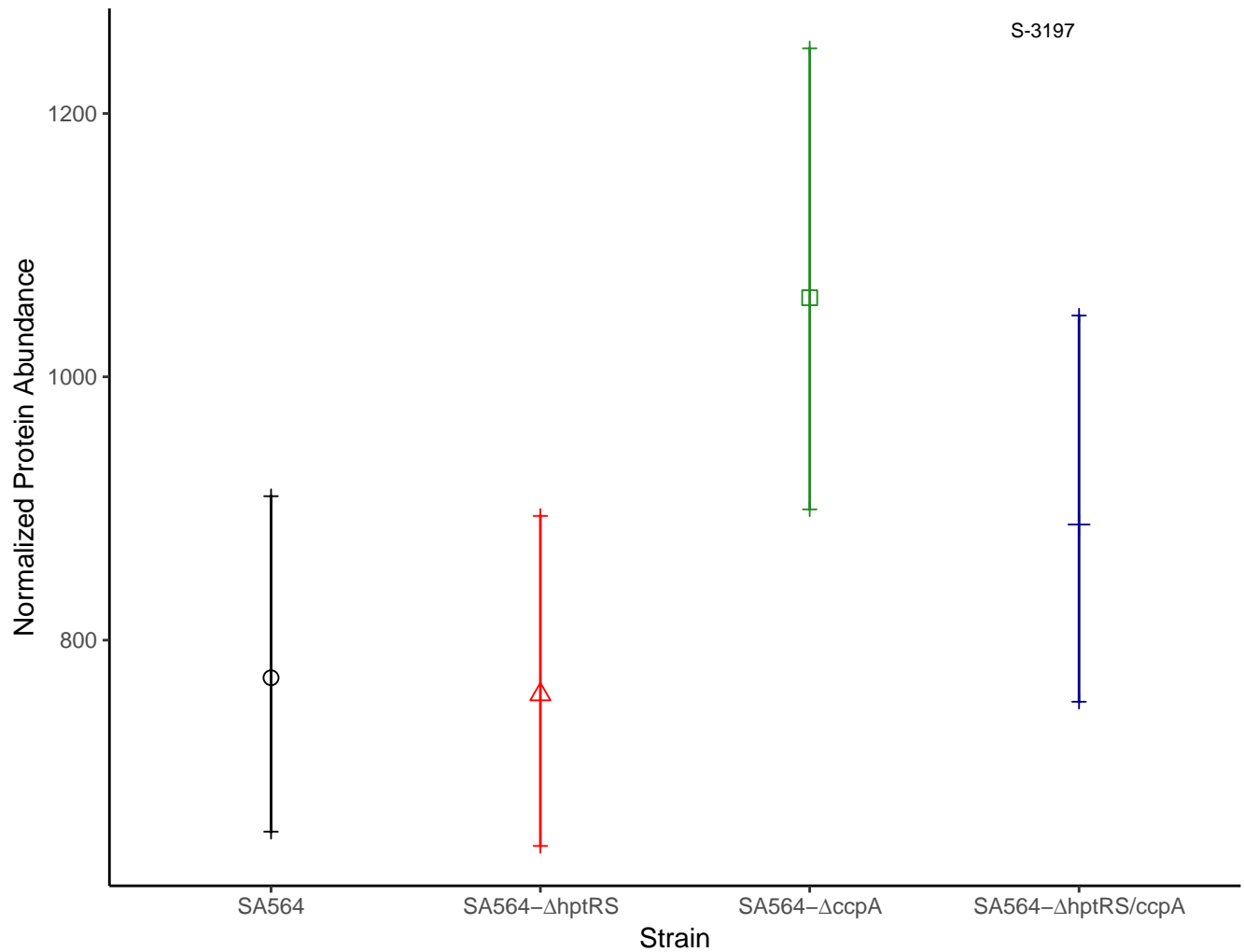
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# KPYK\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

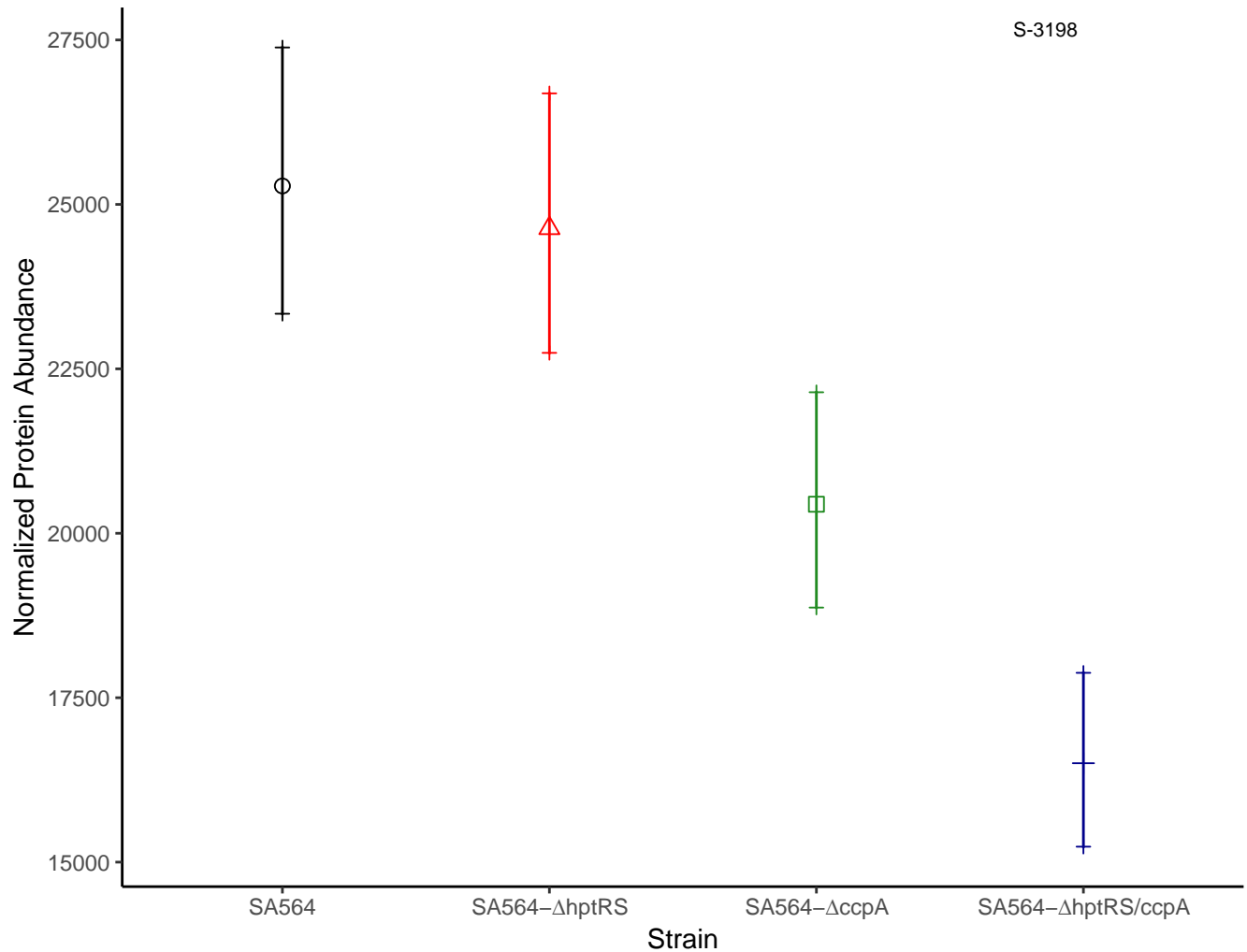
# KTHY\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

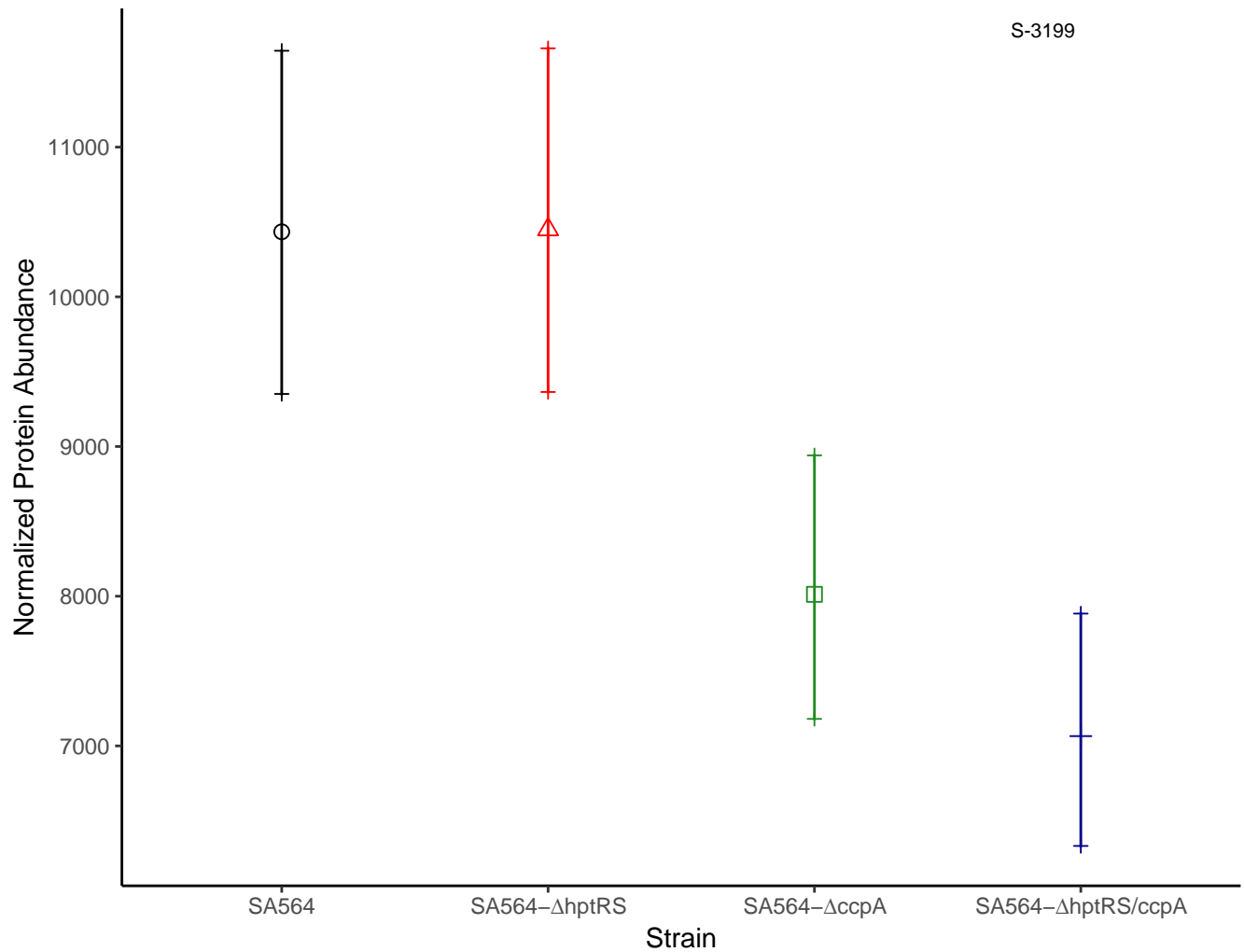
# LACA\_STAAM

S-3198



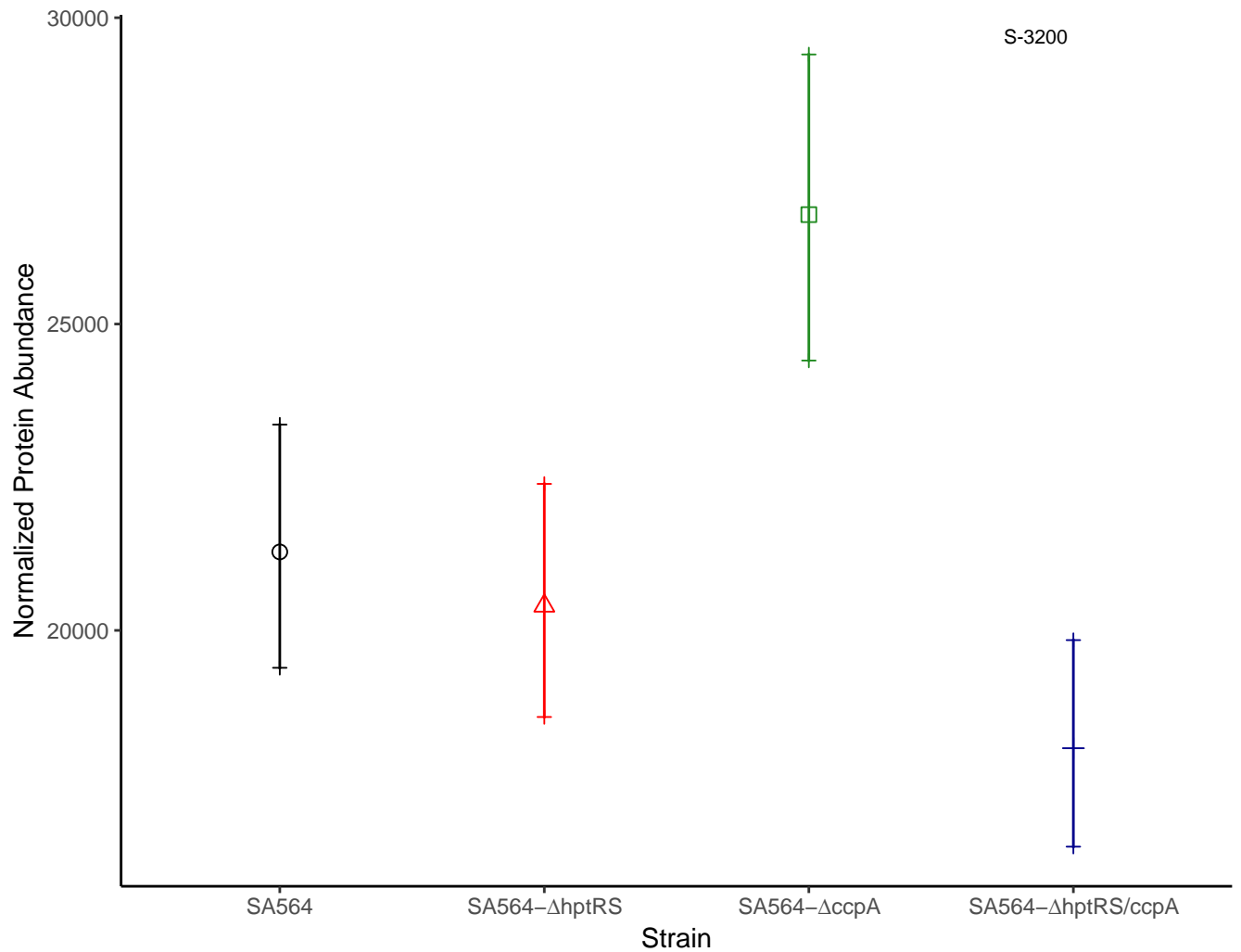
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# LDH1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

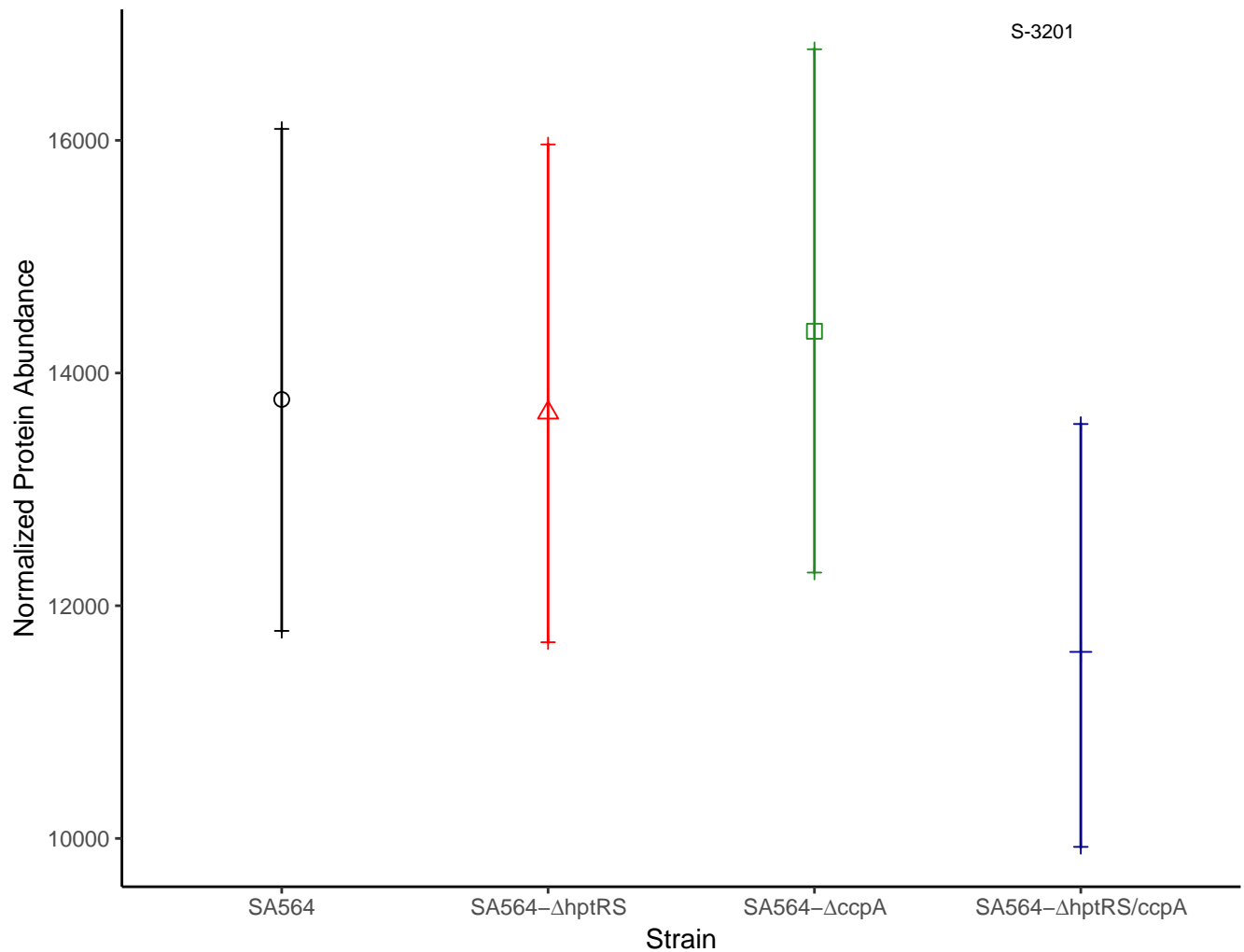
# LDH2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

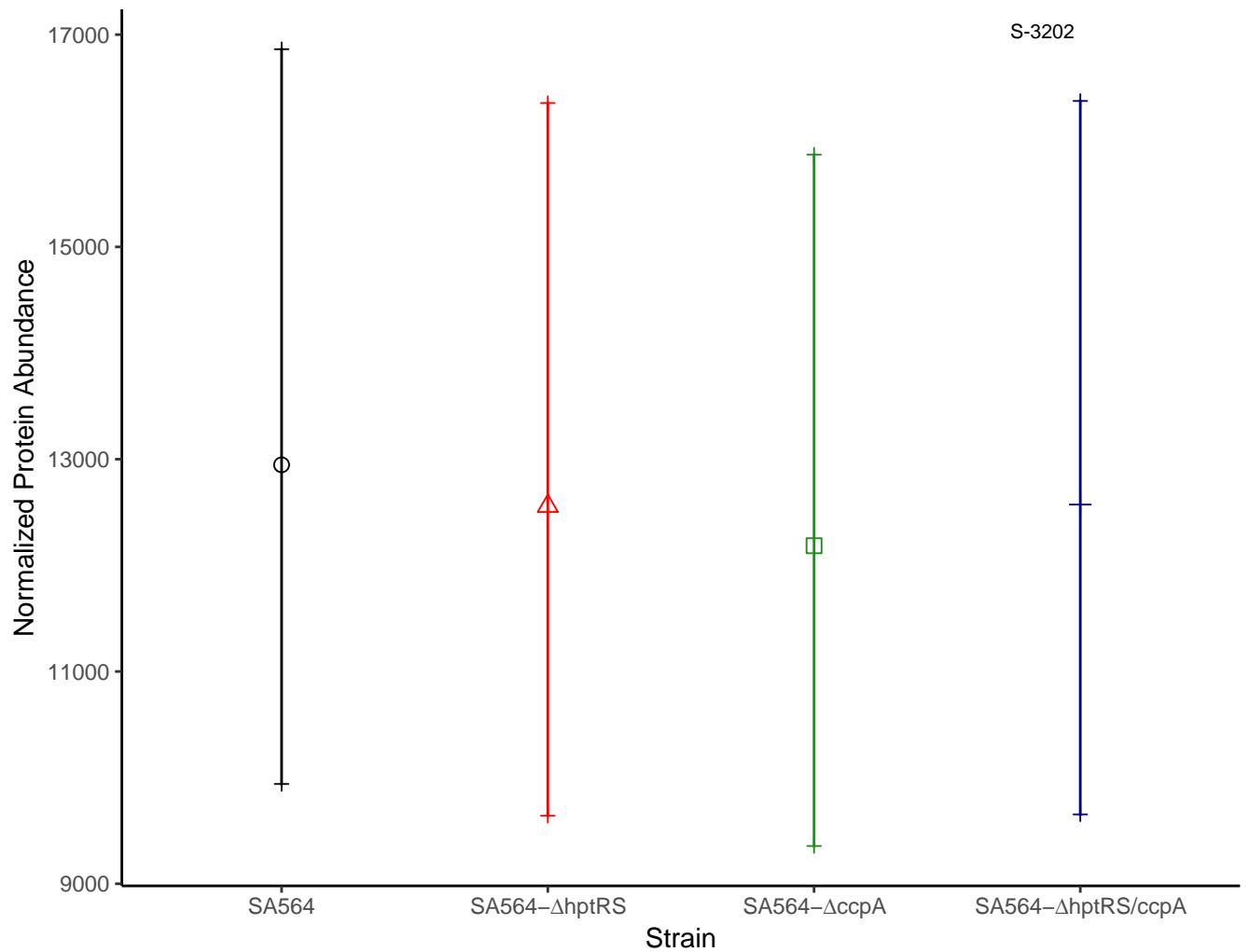


# LDHD\_STAAM



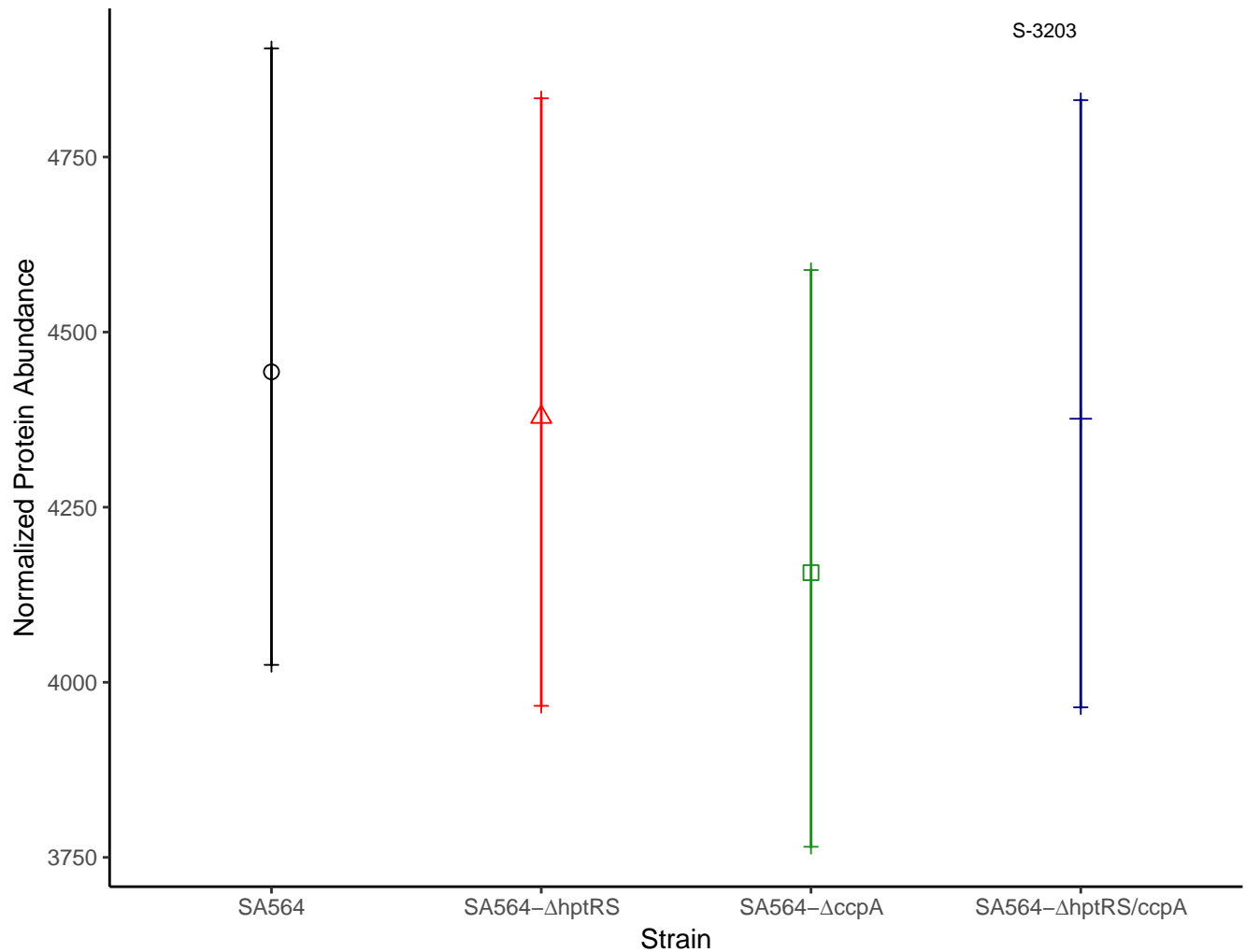
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LEP\_STAAM



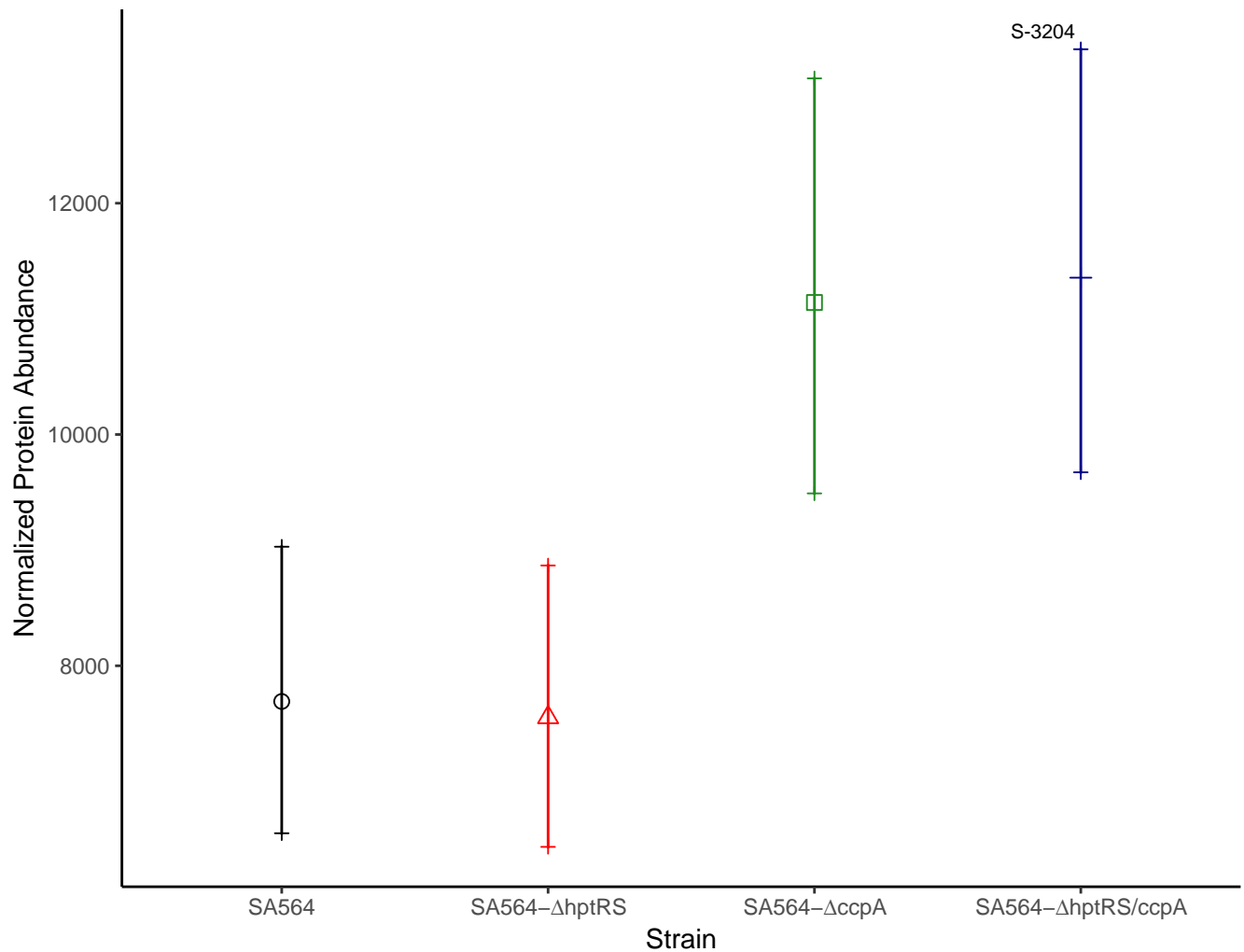
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LEPA\_STAAM



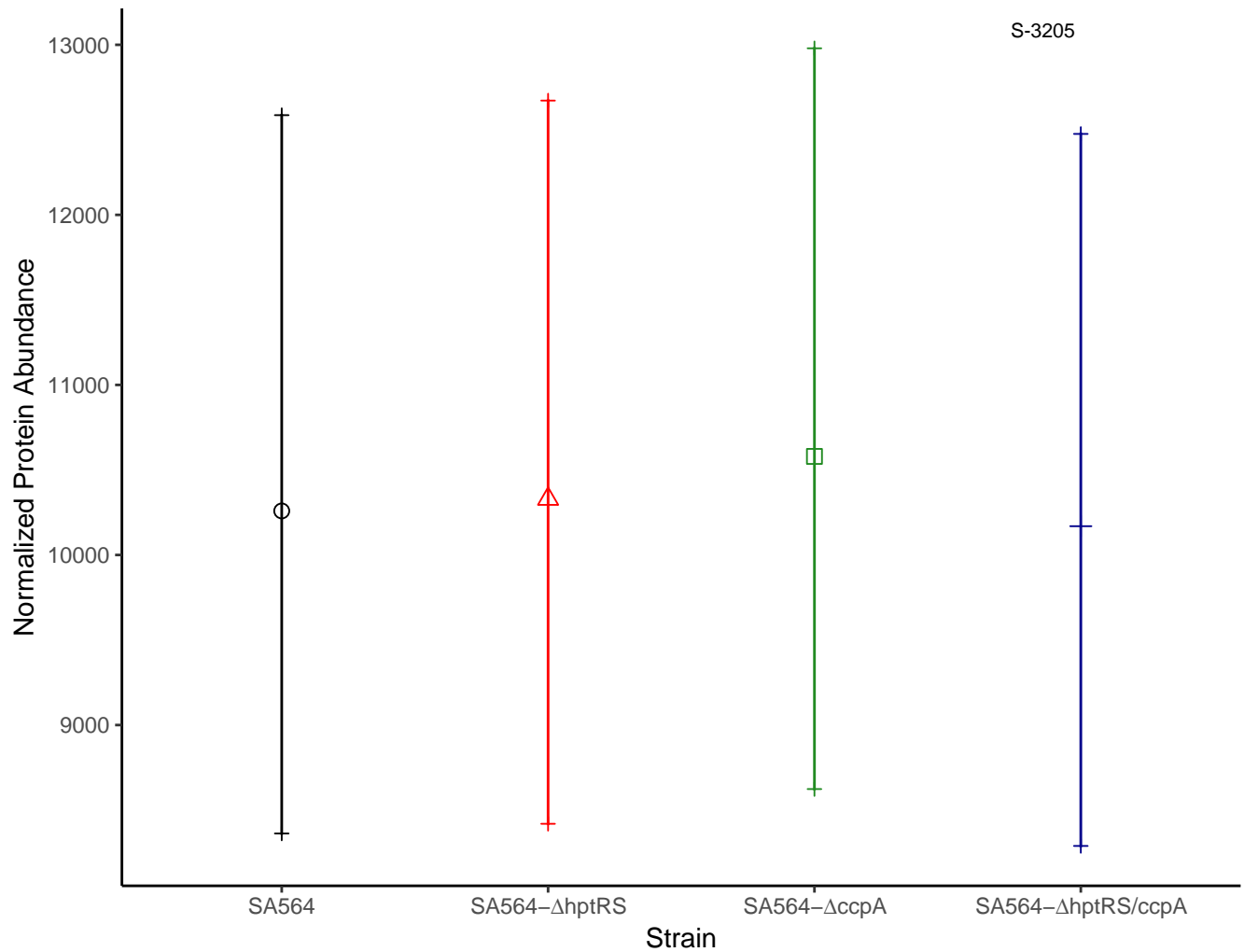
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# LEU1\_STAAM



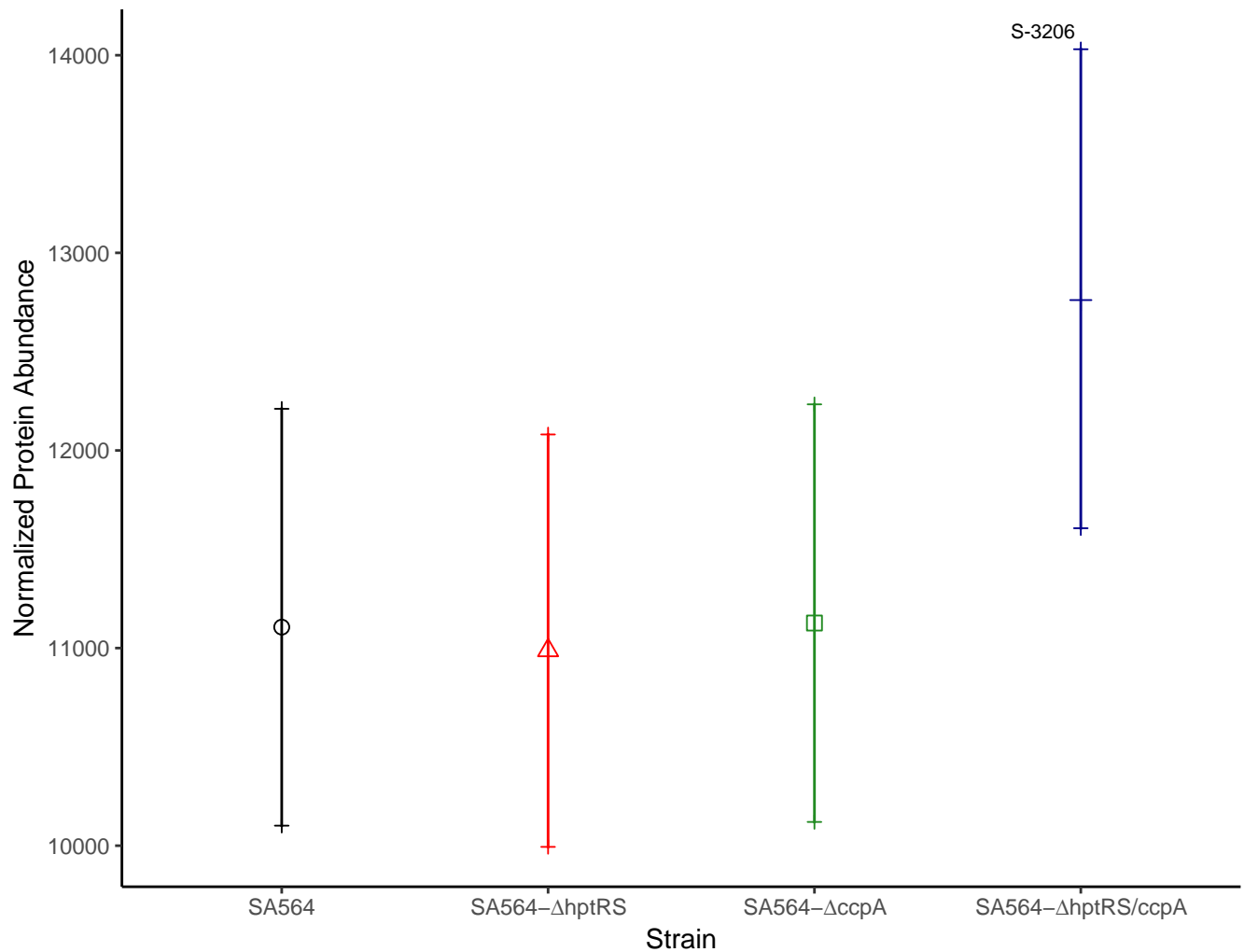
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# LIPA\_STAAM



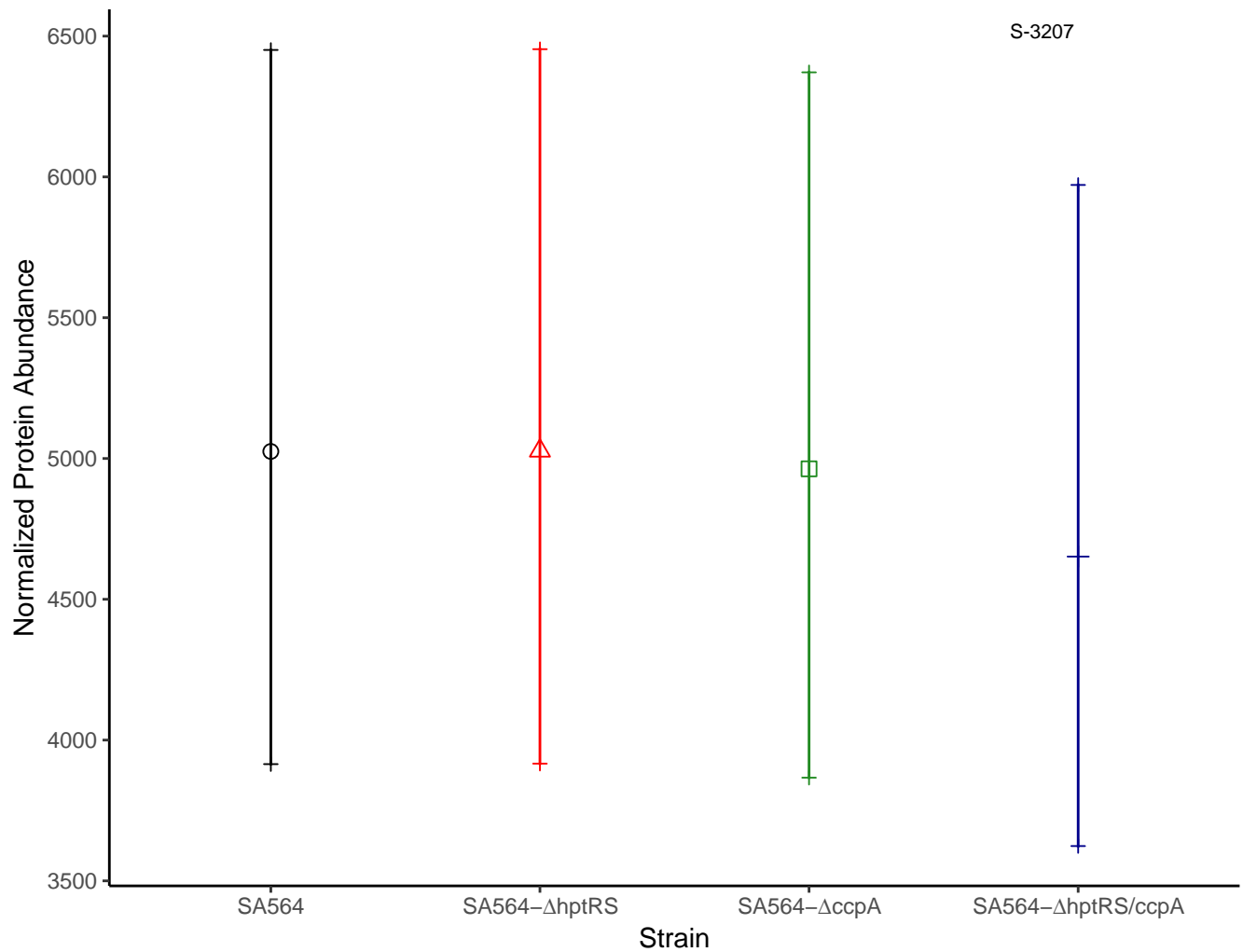
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# LUXS\_STAAM



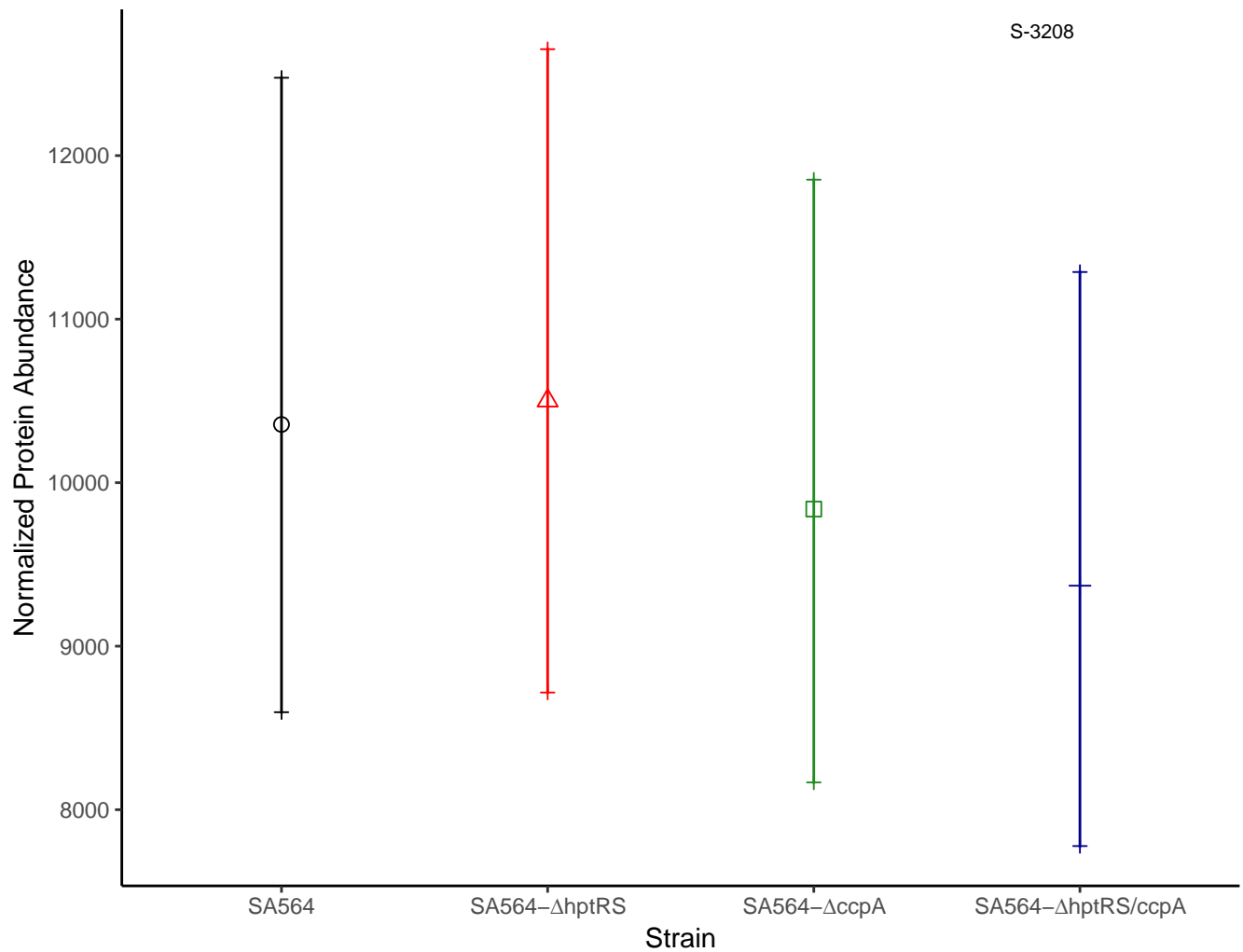
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# LYTH\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

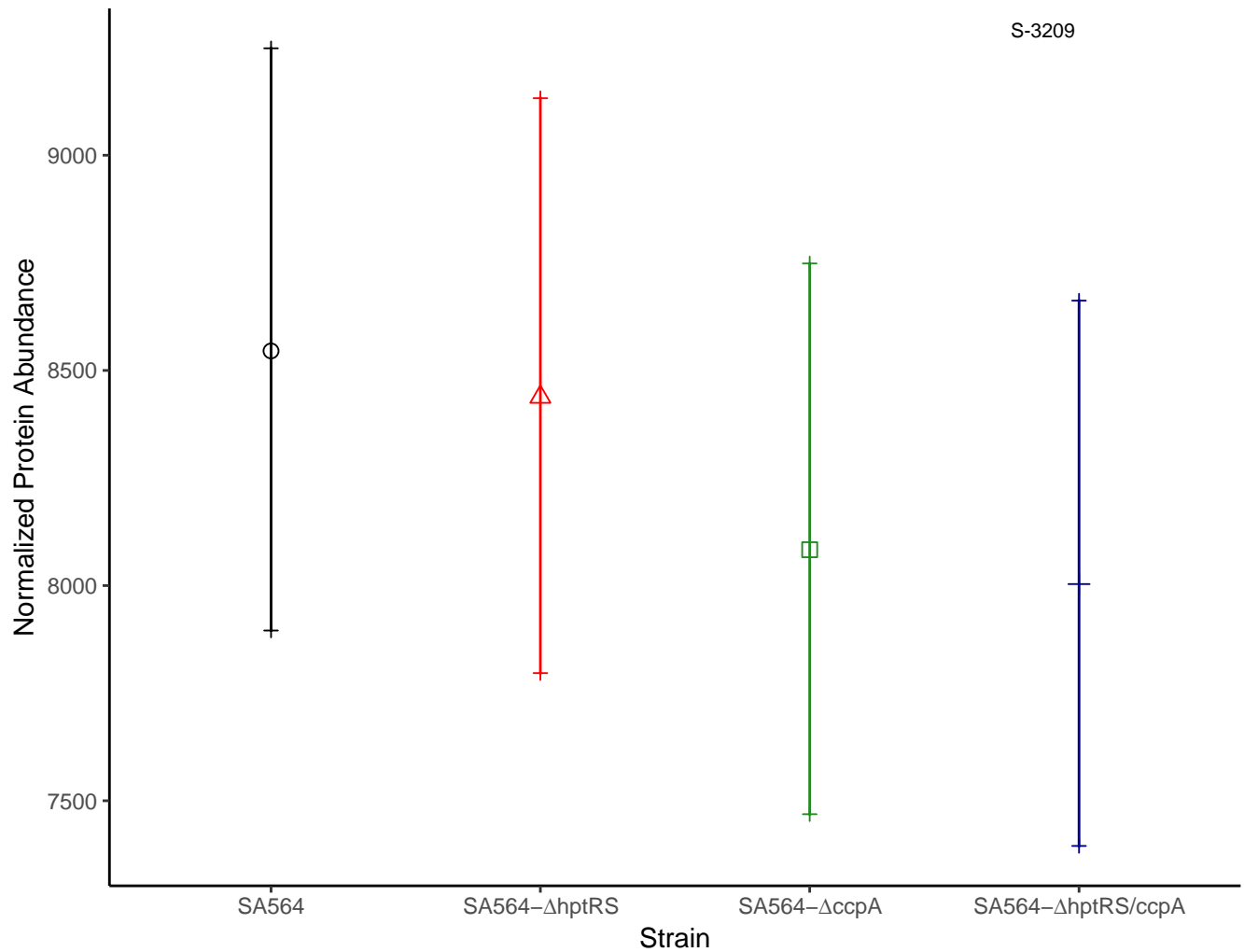
# LYTN\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

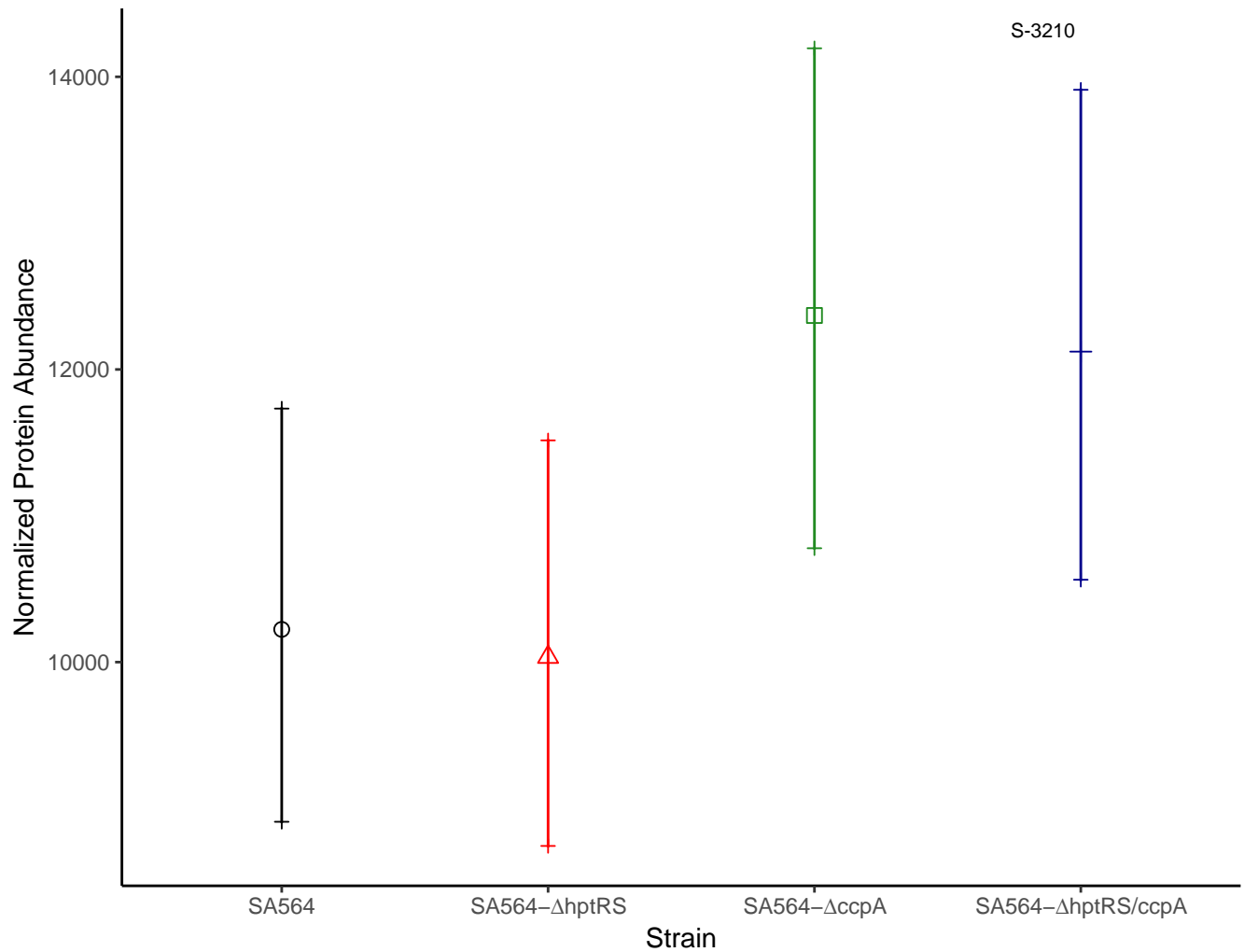


# MAP\_STAAM



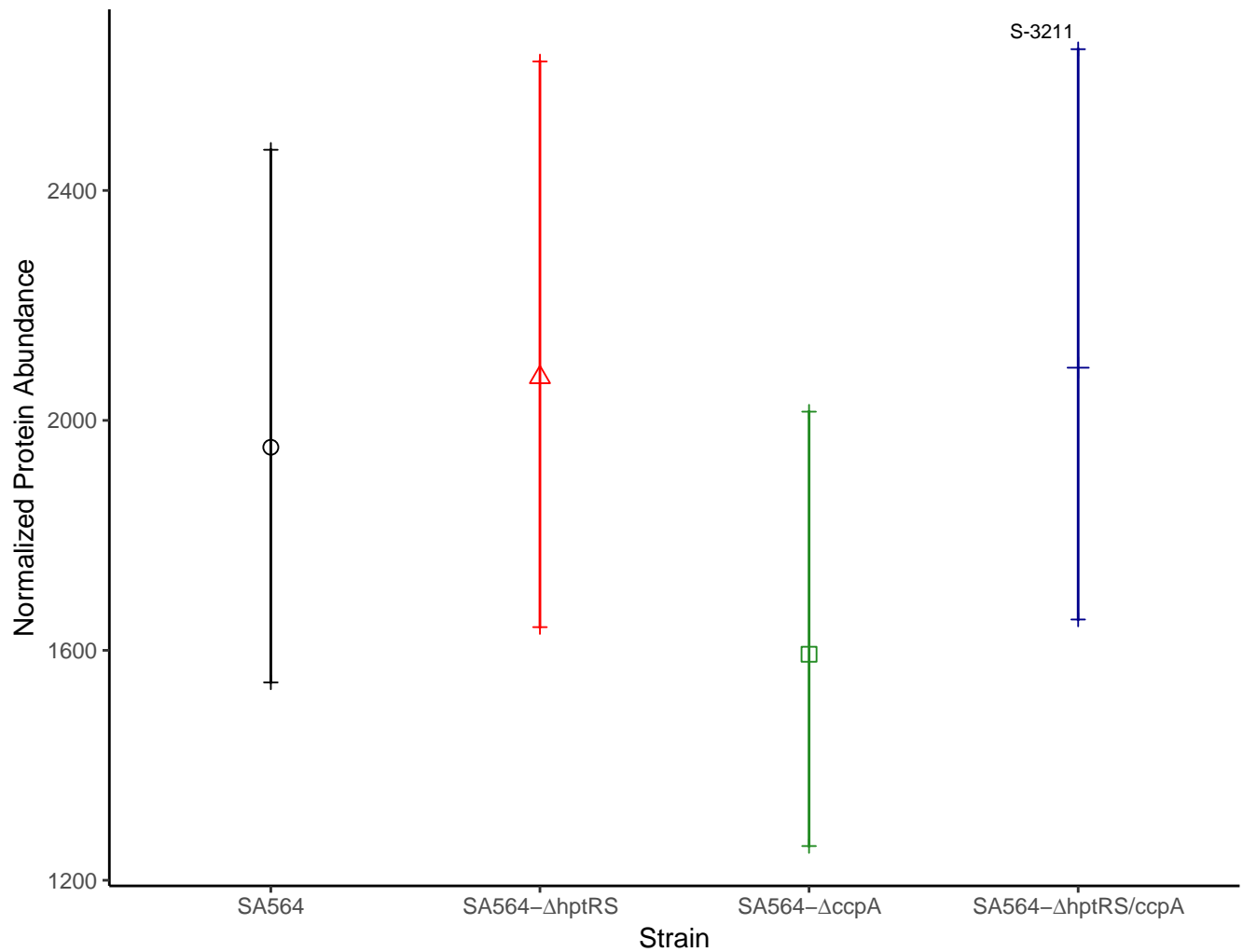
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# MAP1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

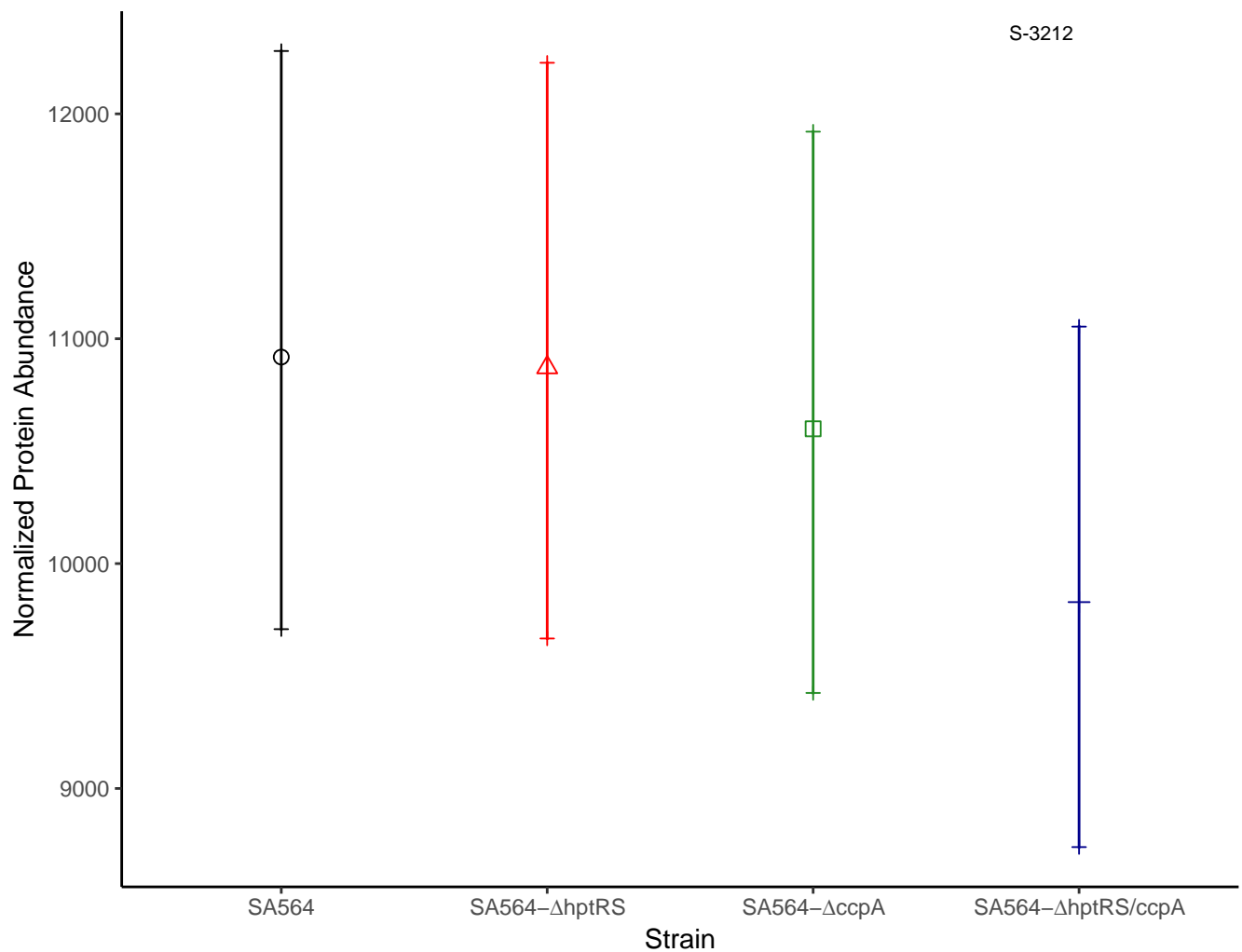
# MAZF\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

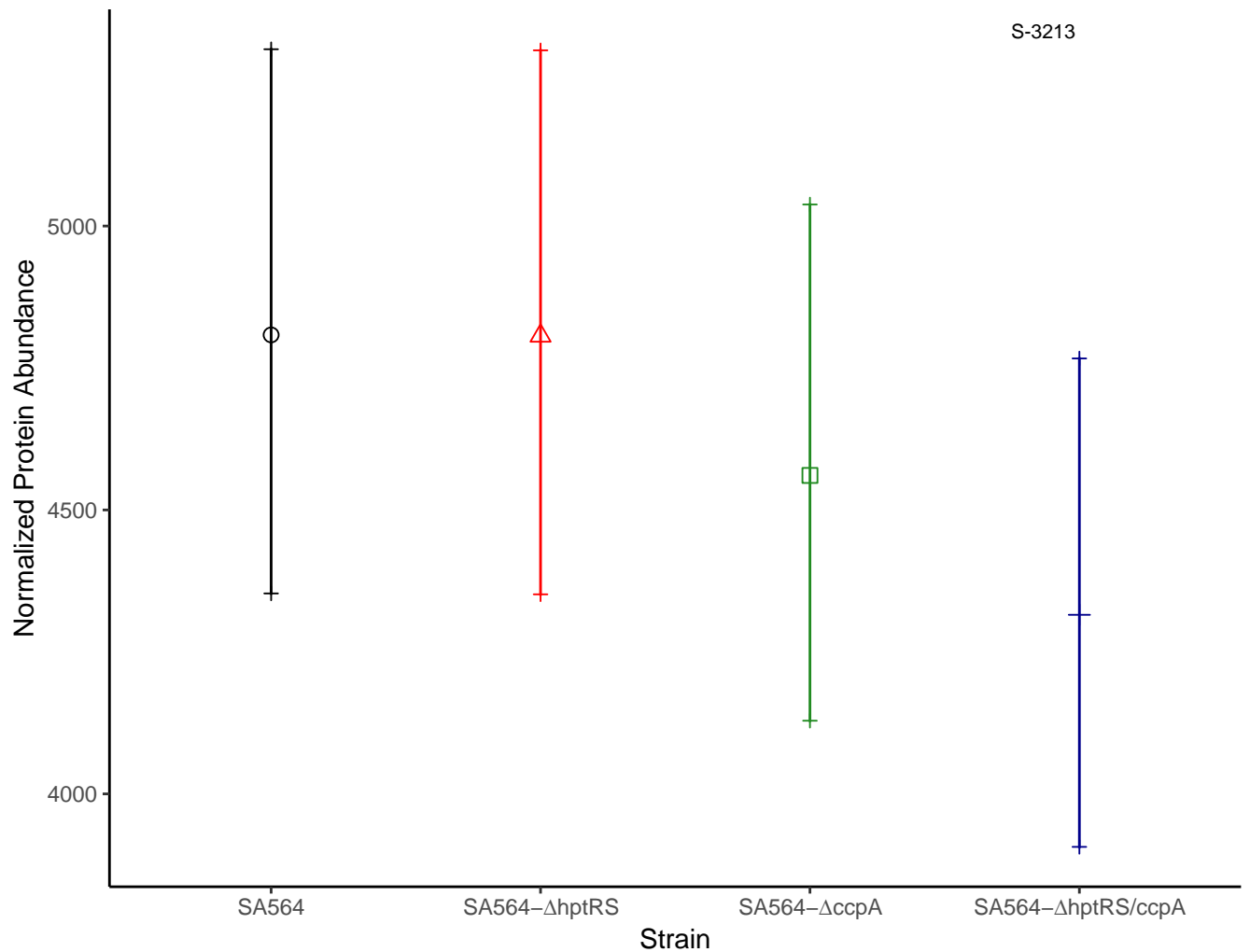
S-3211

# MENB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

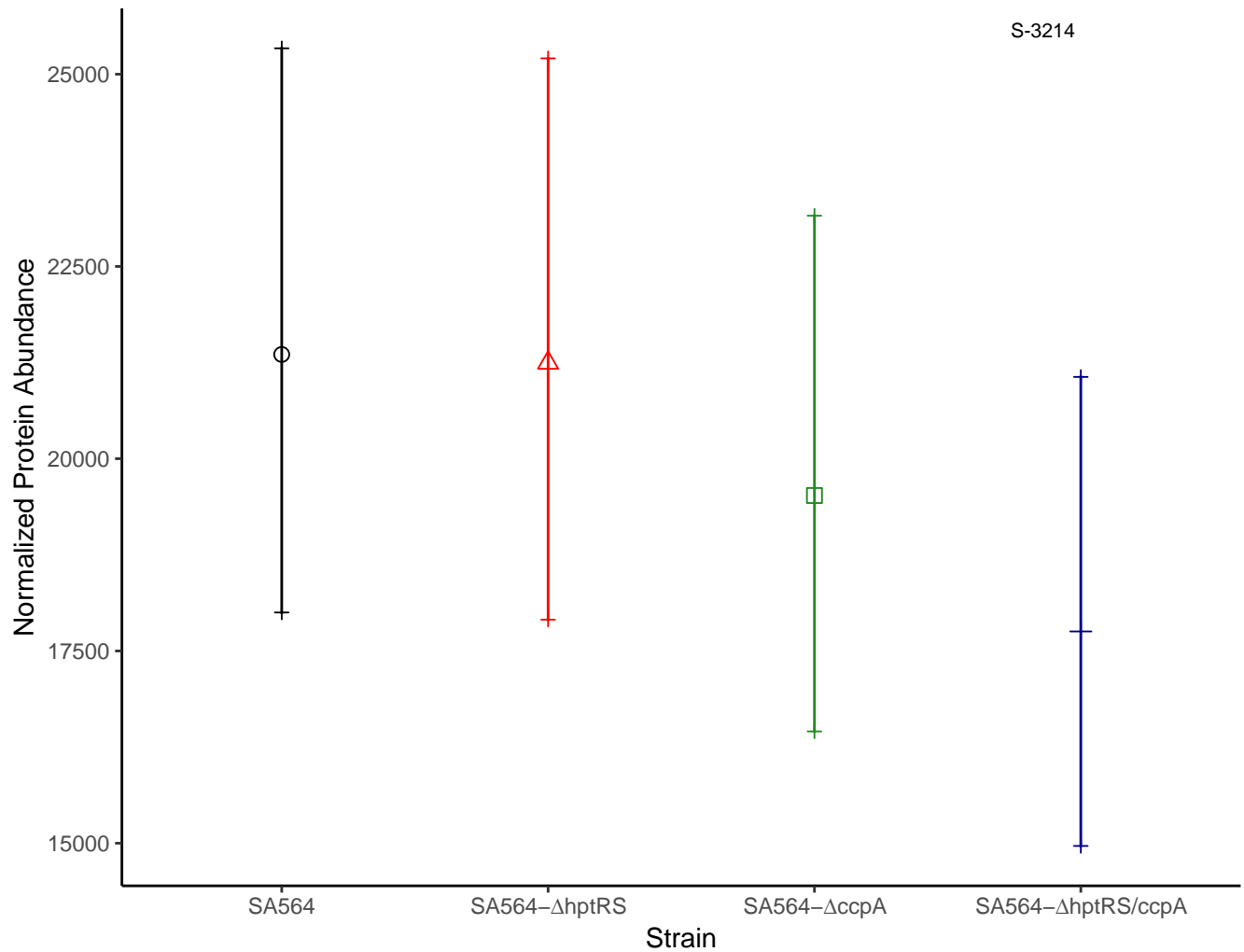
# MENG\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

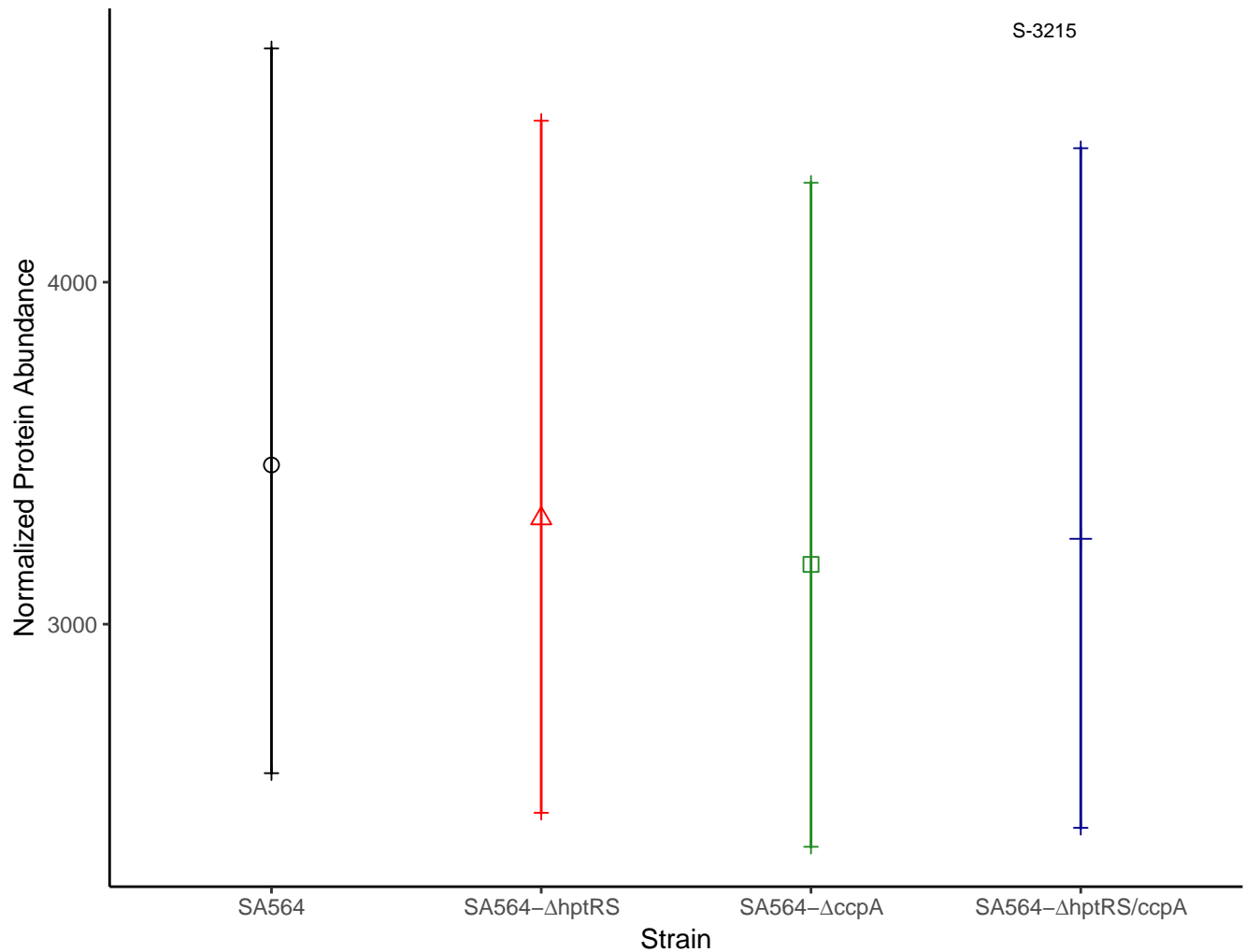
# METK\_STAAM

S-3214



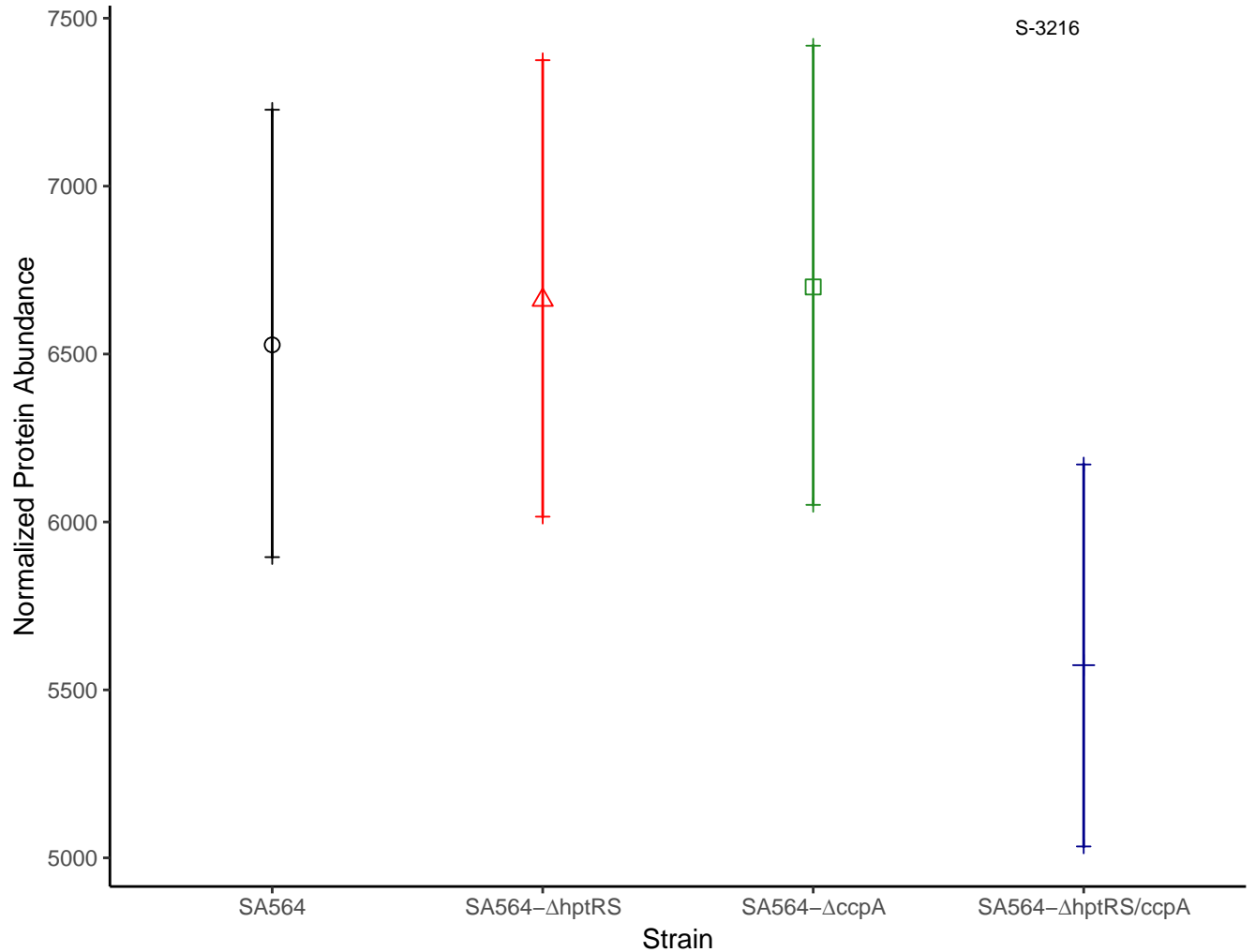
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# METN2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

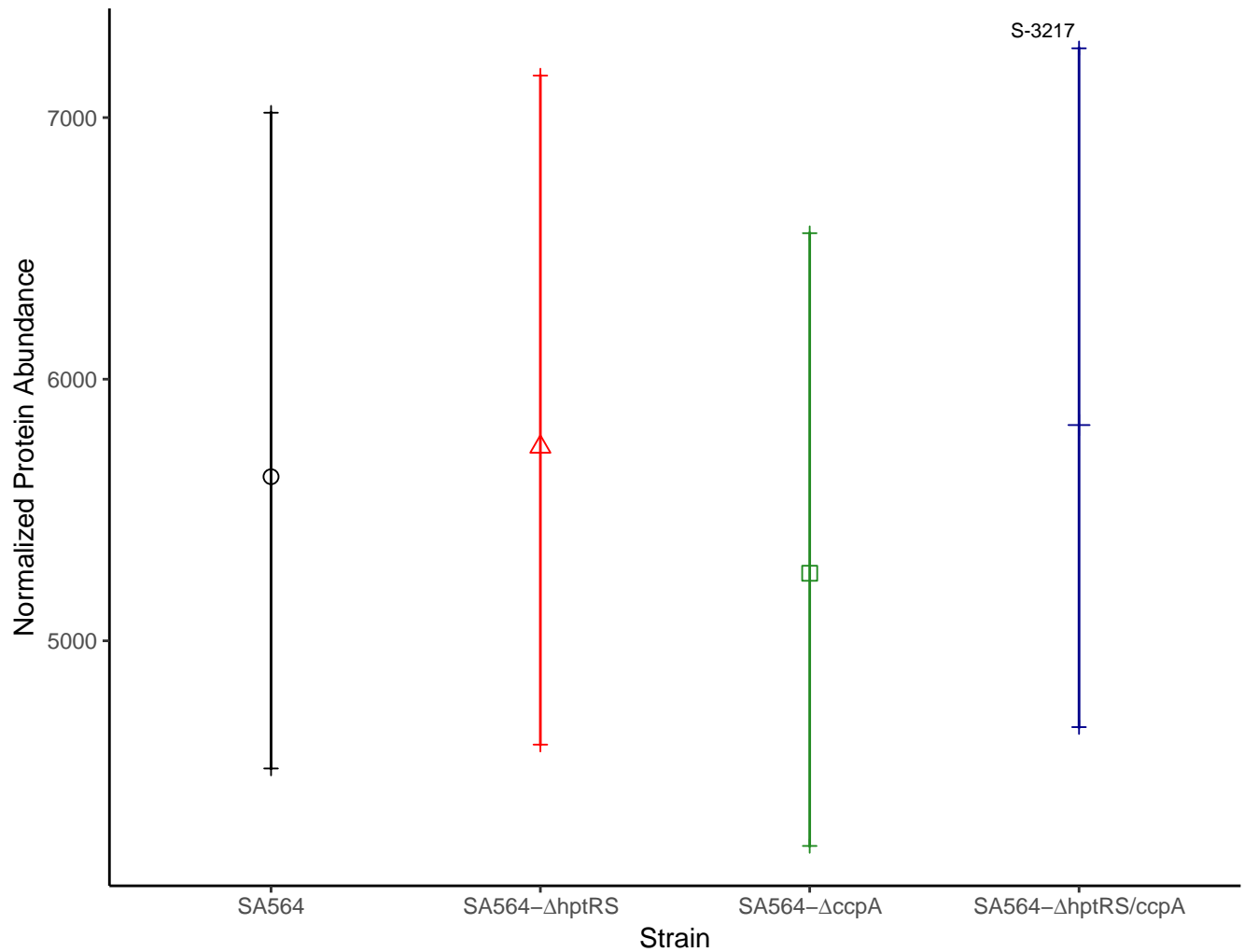
# MGRA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



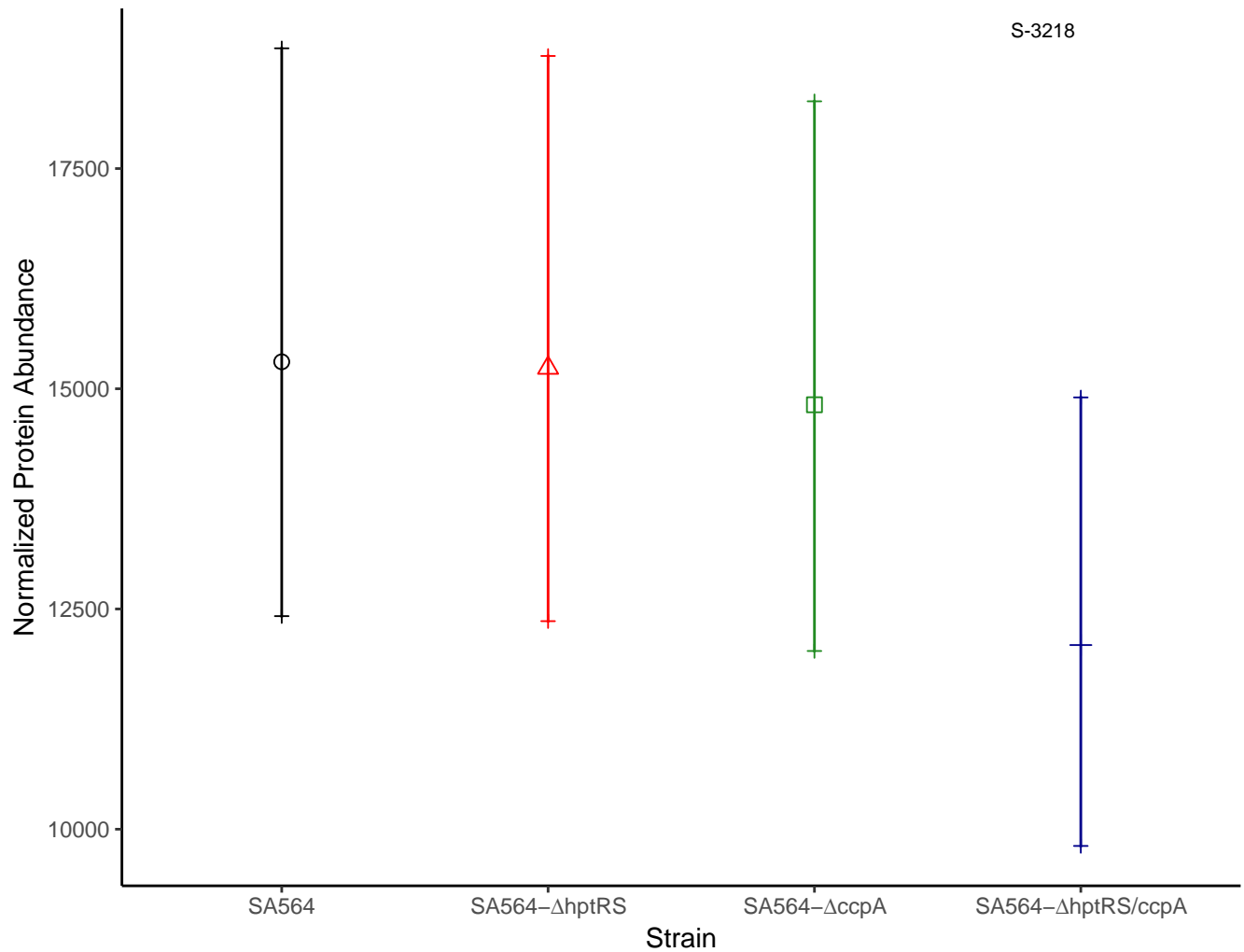
# MIAB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

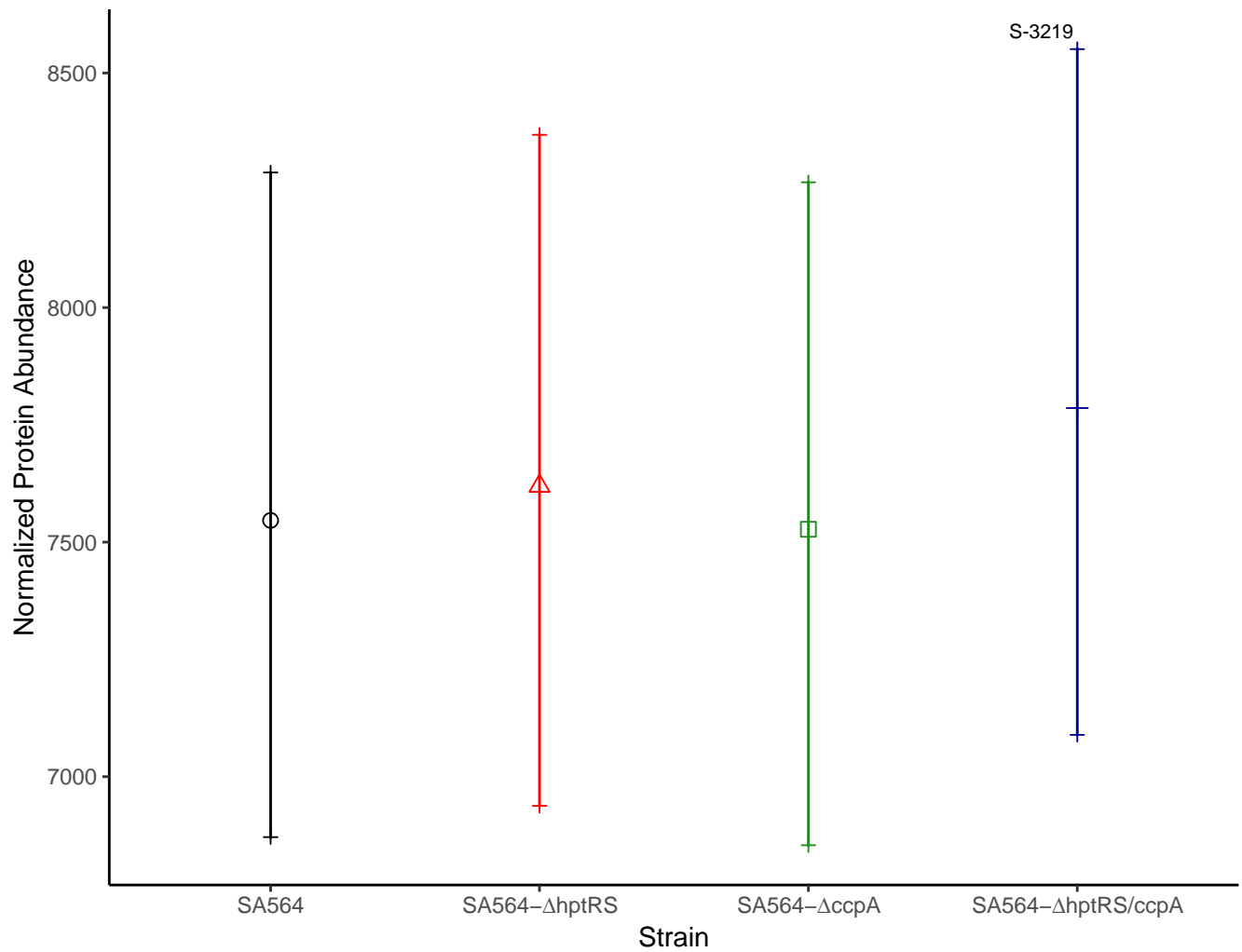
# MNME\_STAAM

S-3218



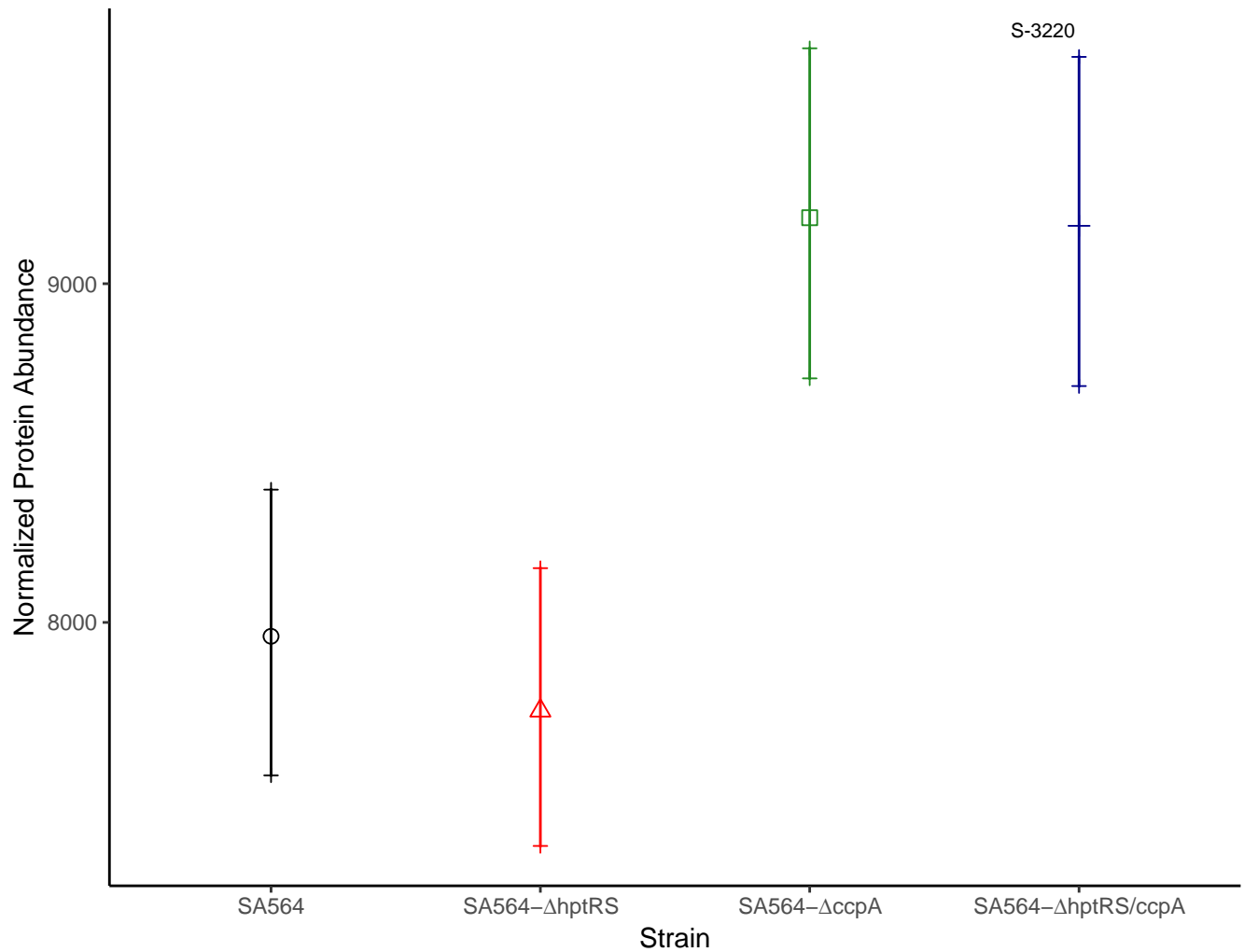
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MNMG\_STAAM



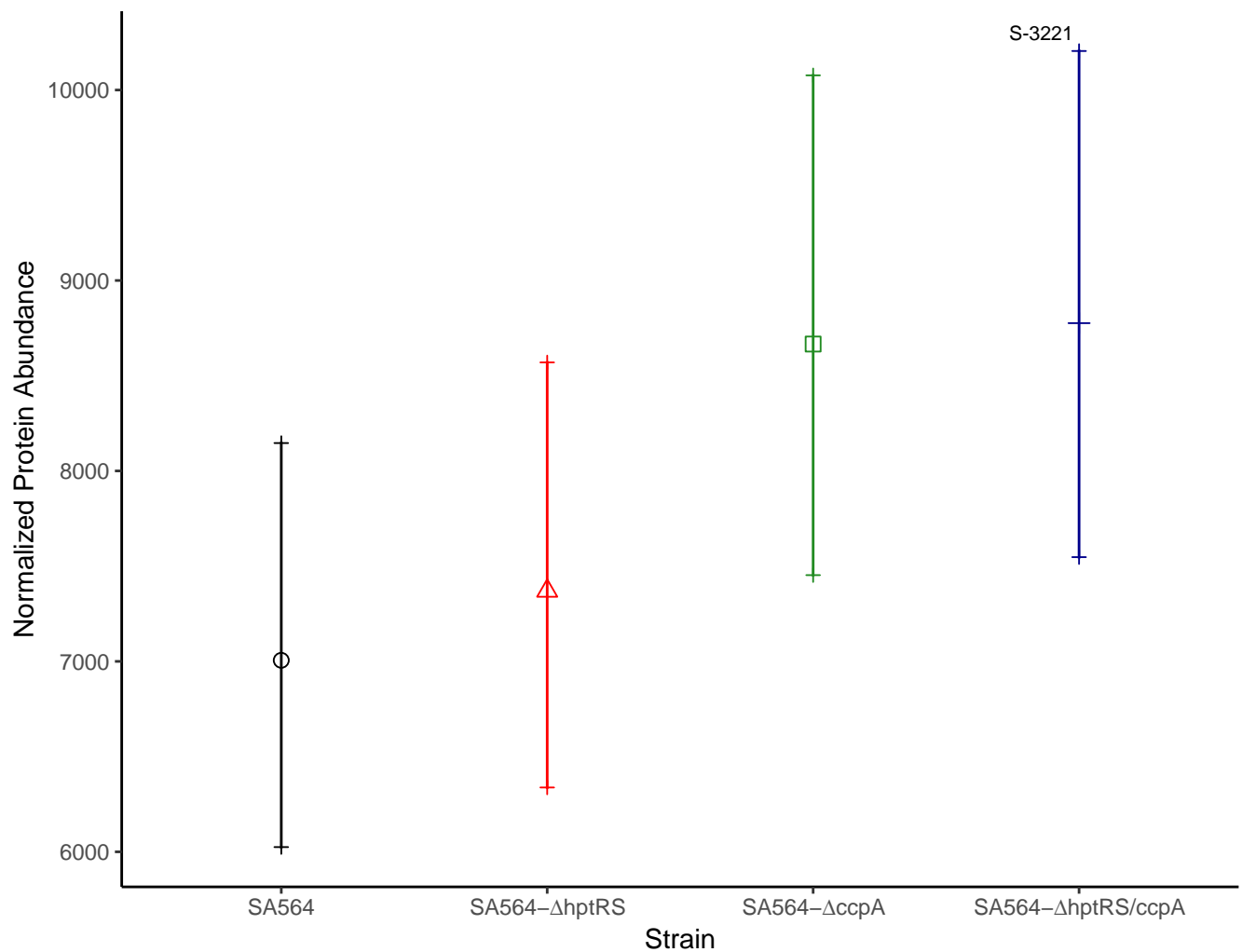
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MOAC\_STAAM



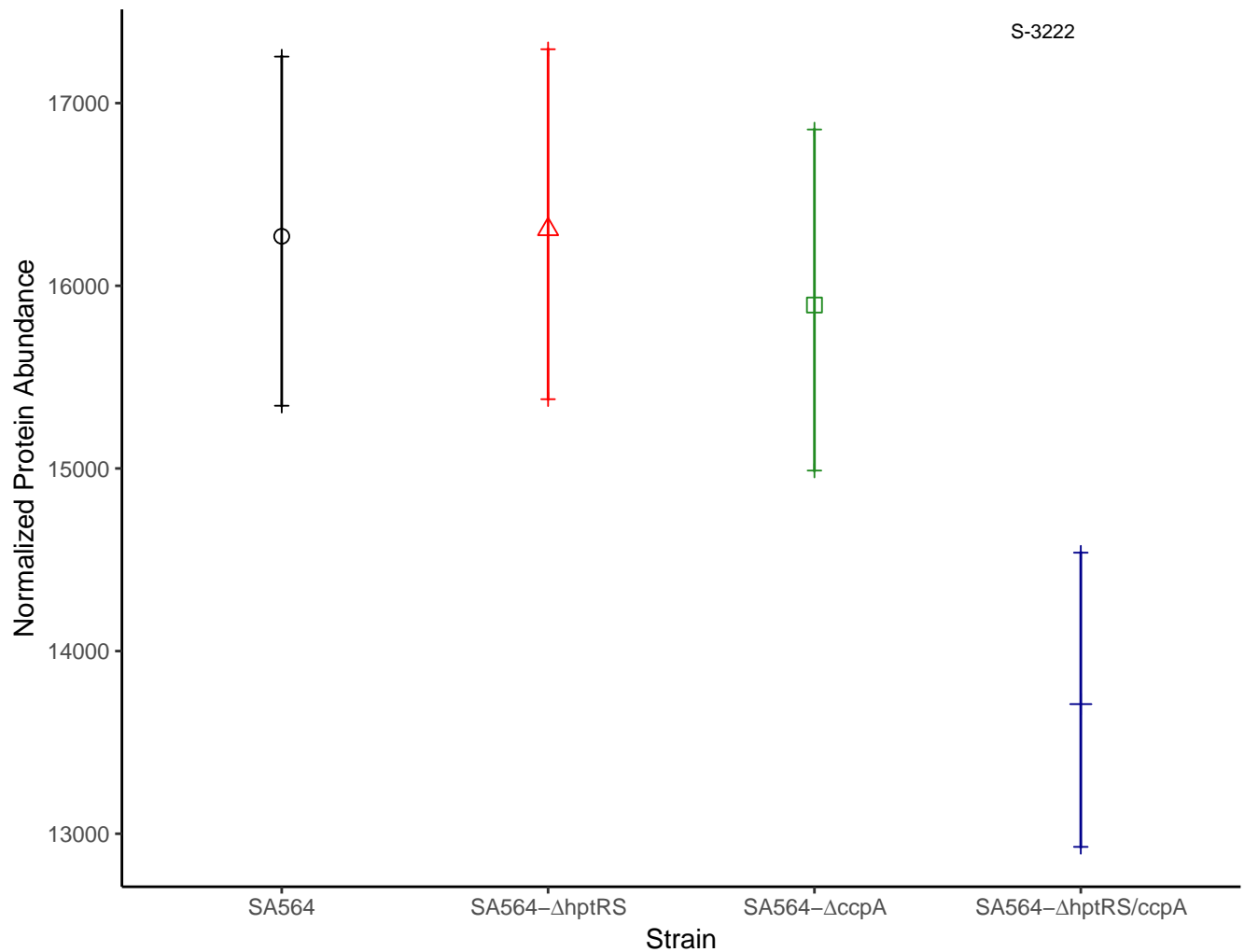
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# MOEA\_STAAM



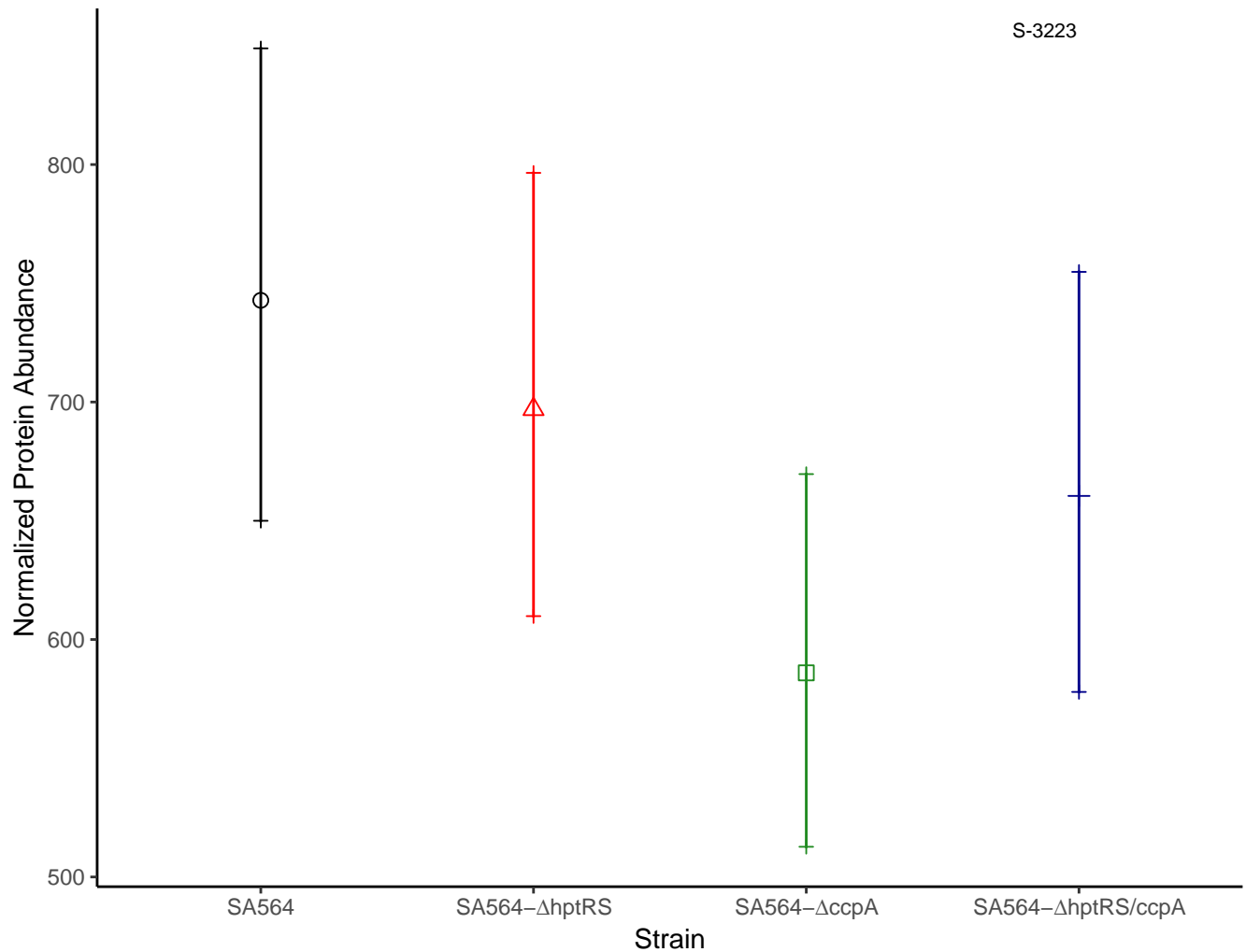
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MQO2\_STAAM



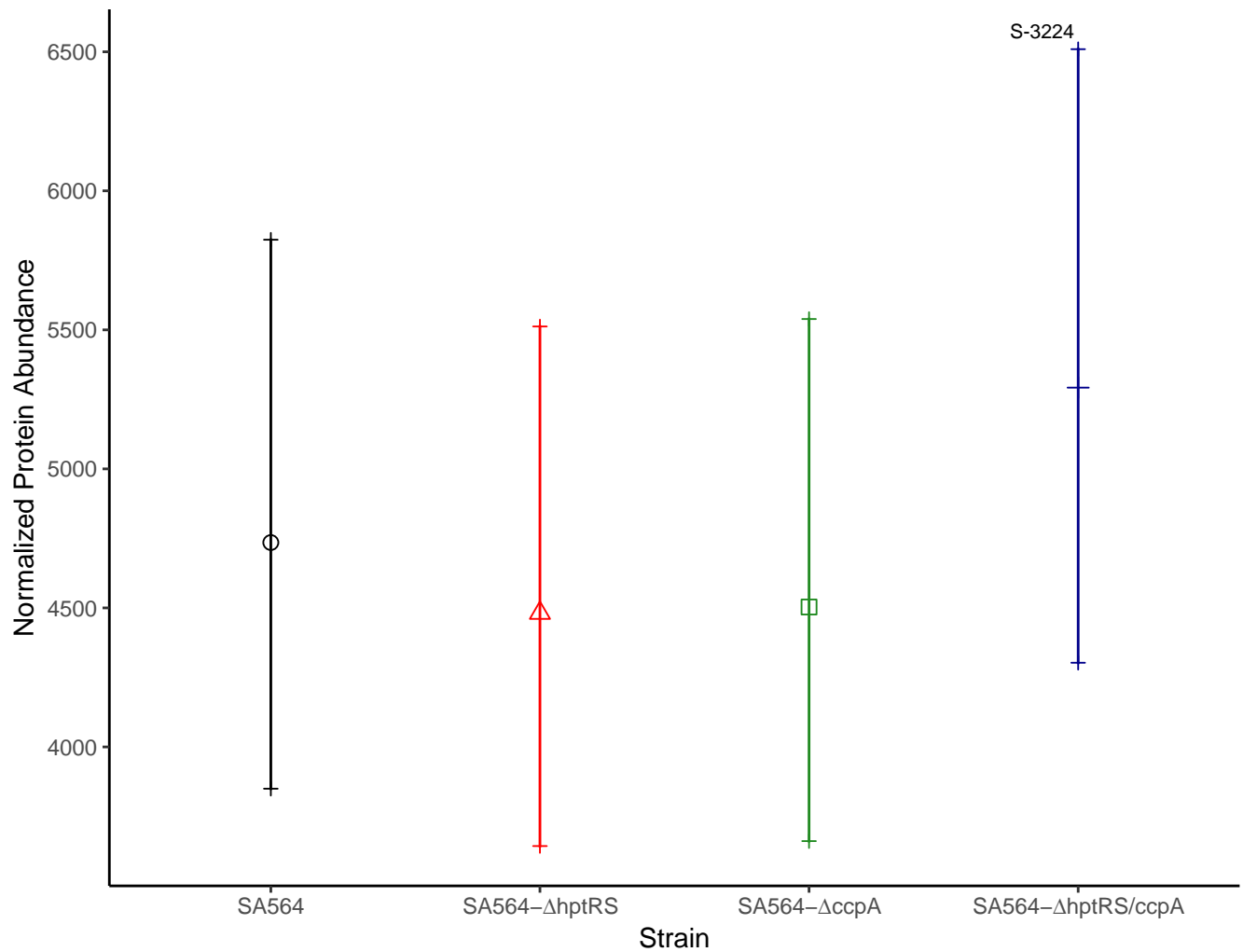
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# MSRA1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

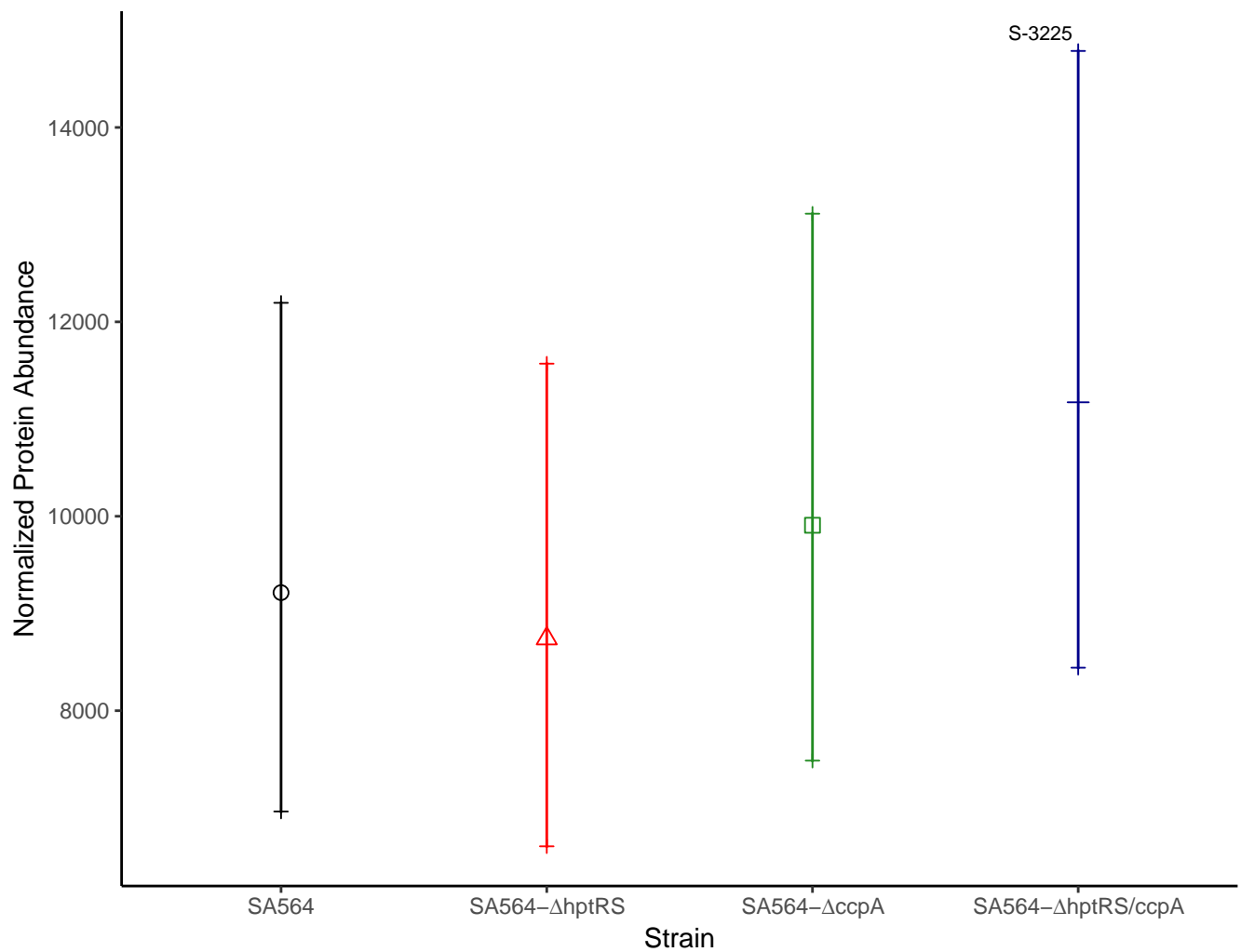
# MSRA2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

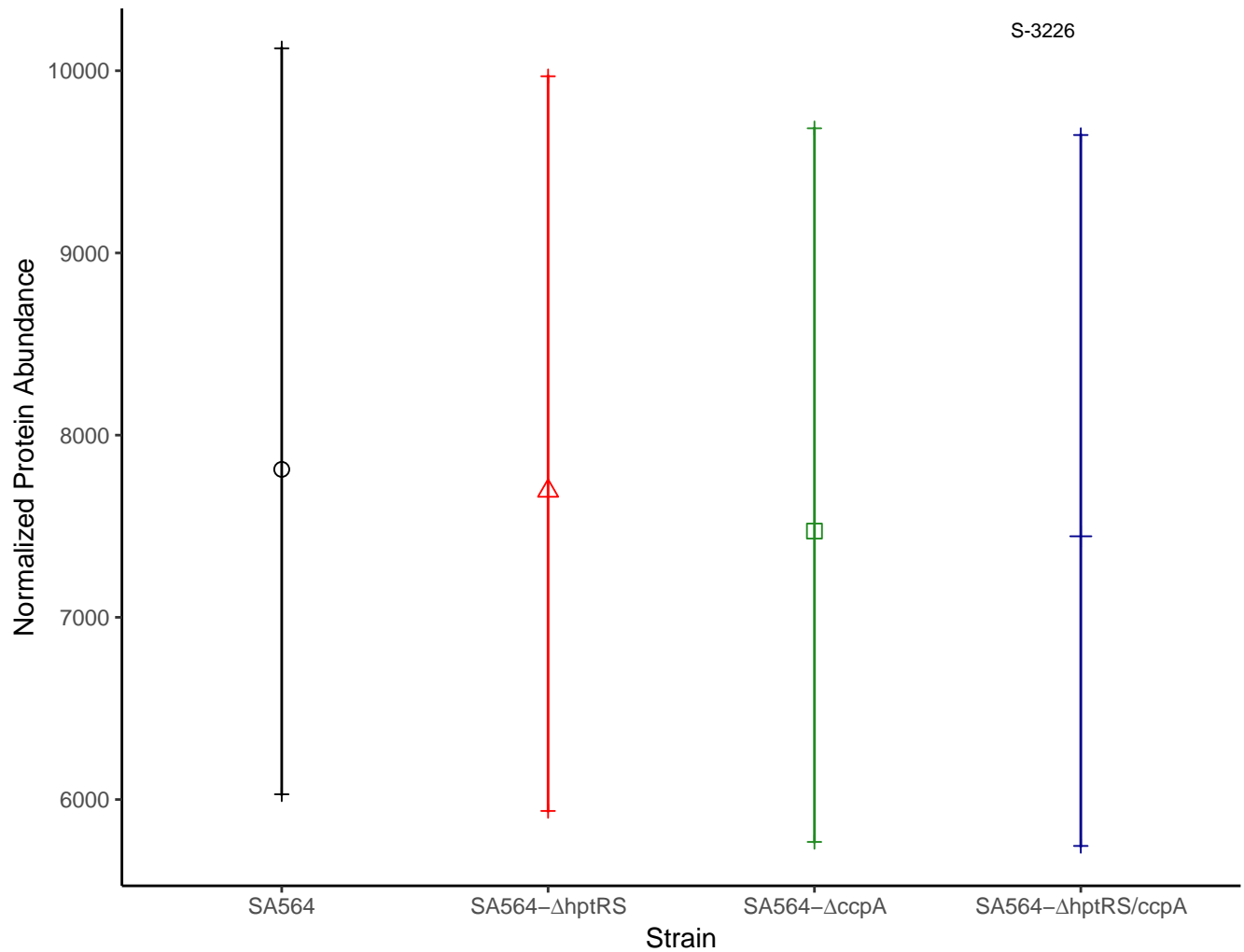


# MSRB\_STAAM



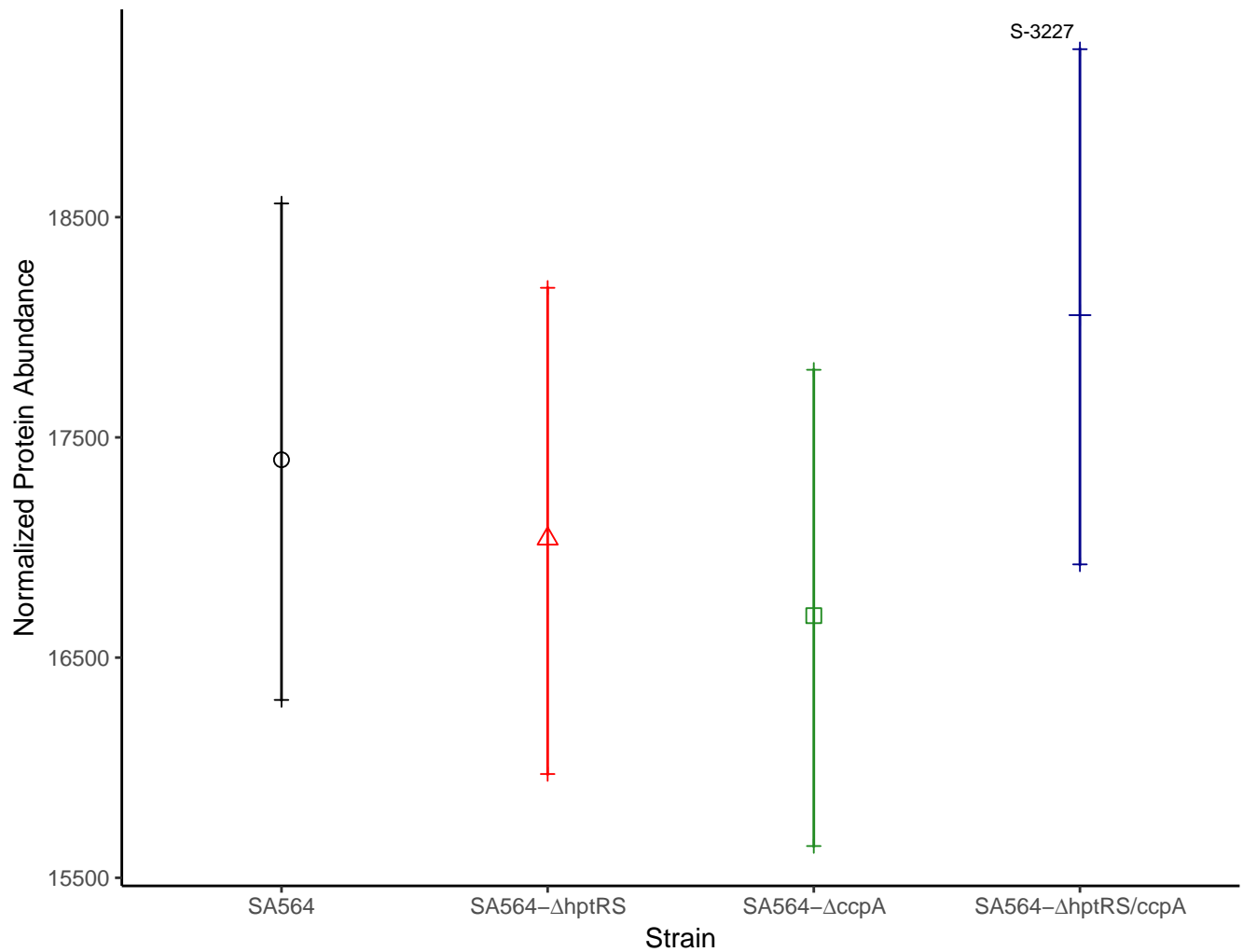
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MTLD\_STAAM



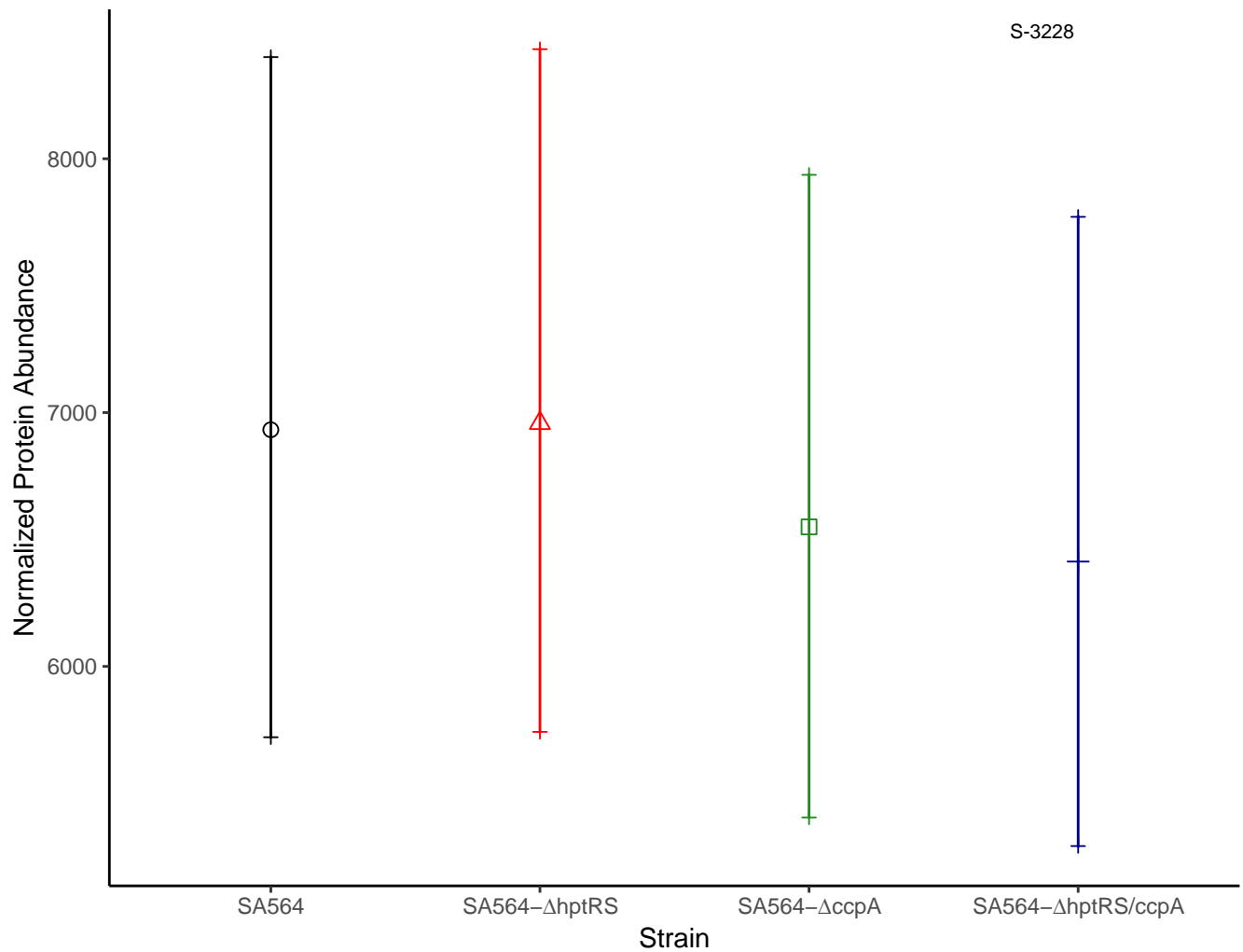
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# MTNN\_STAAM



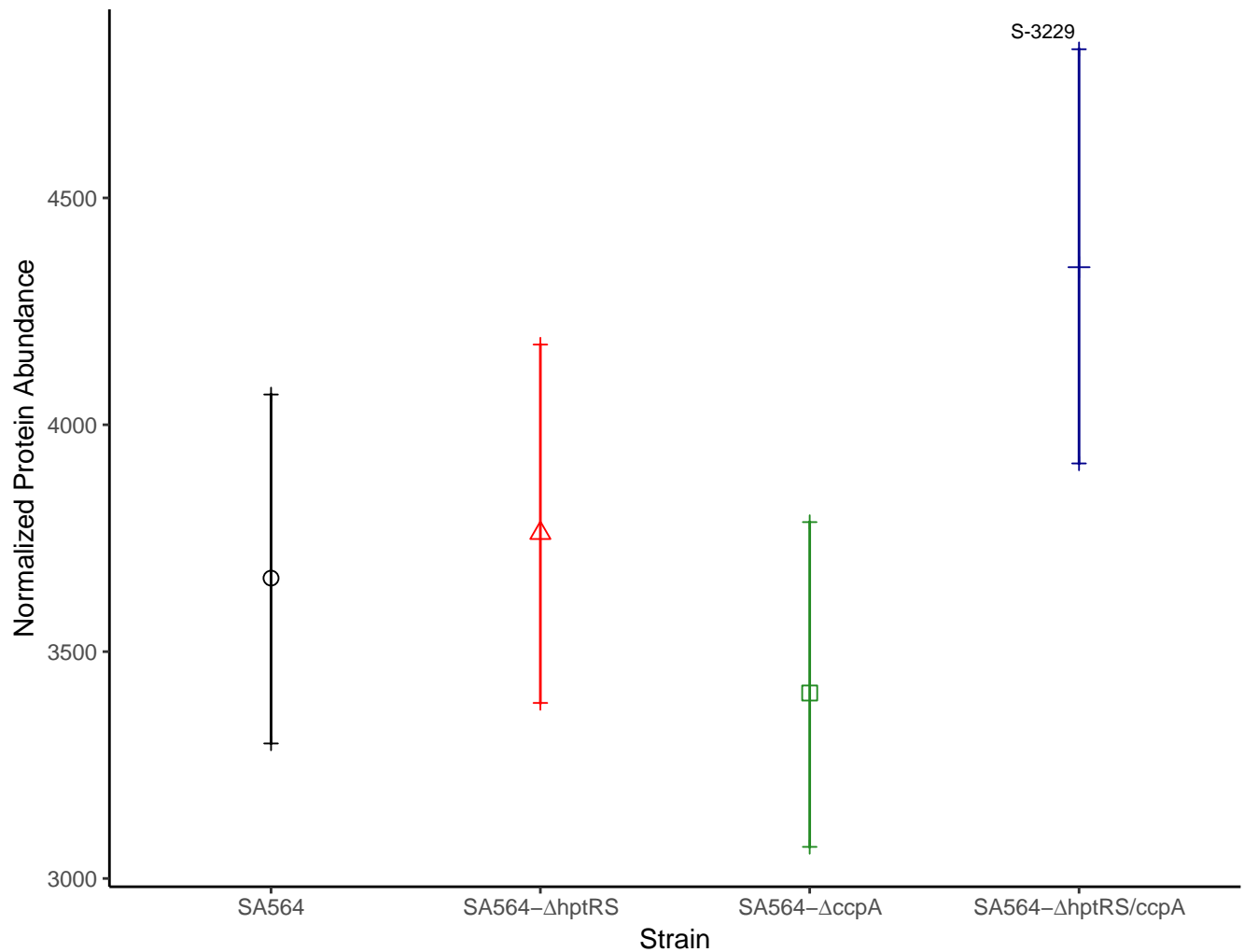
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MURA1\_STAAM



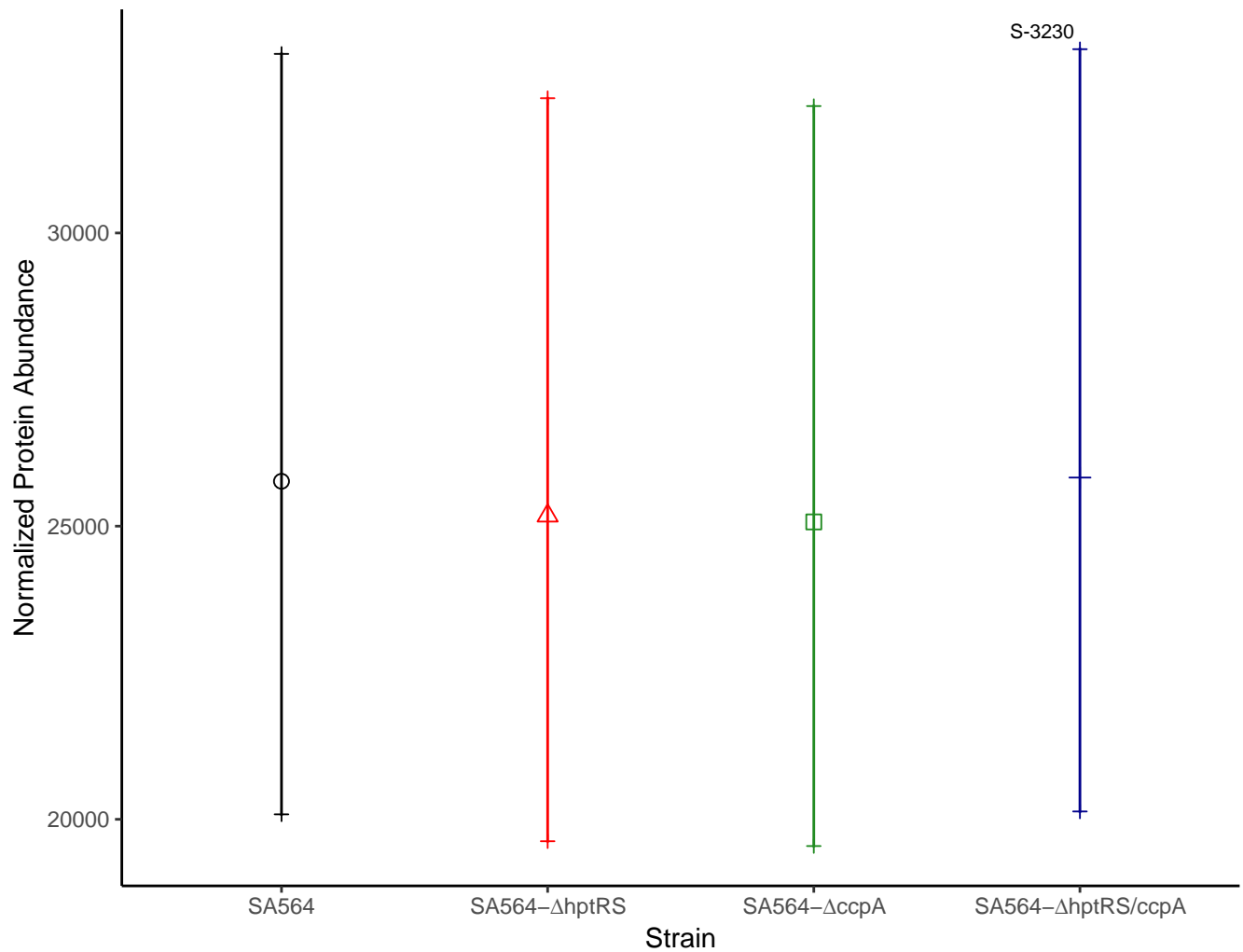
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# MURA2\_STAAM



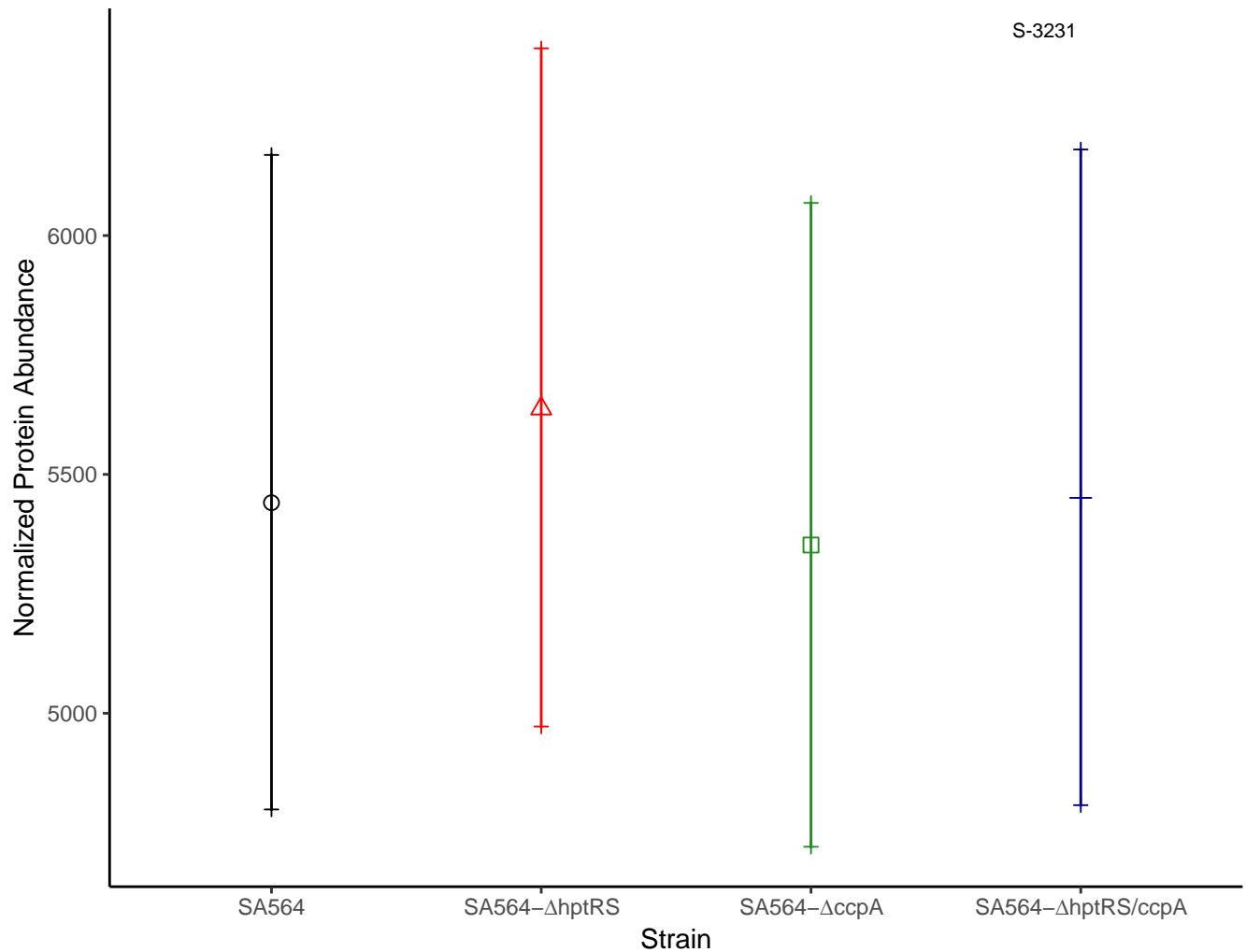
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MURC\_STAAM



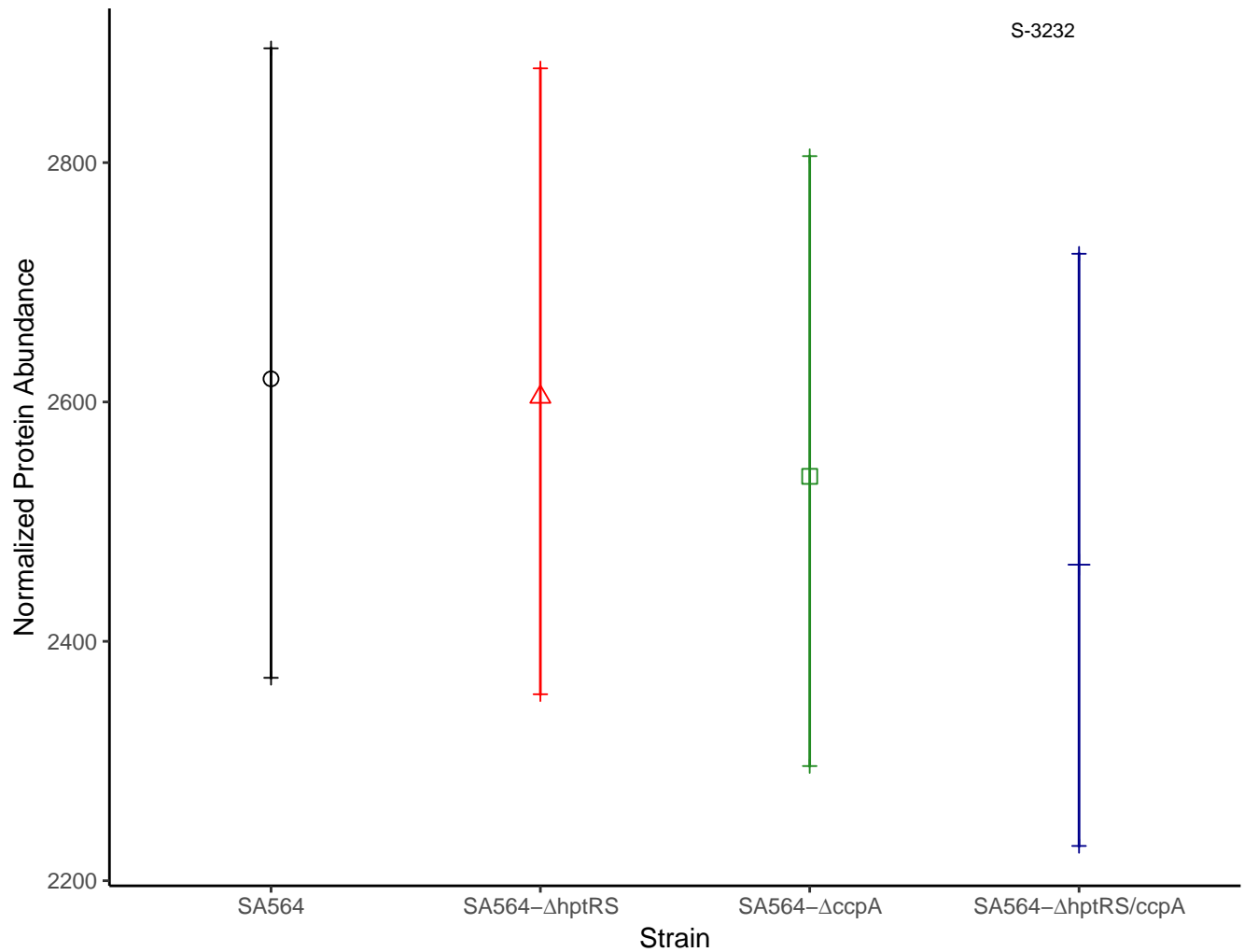
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MURD\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

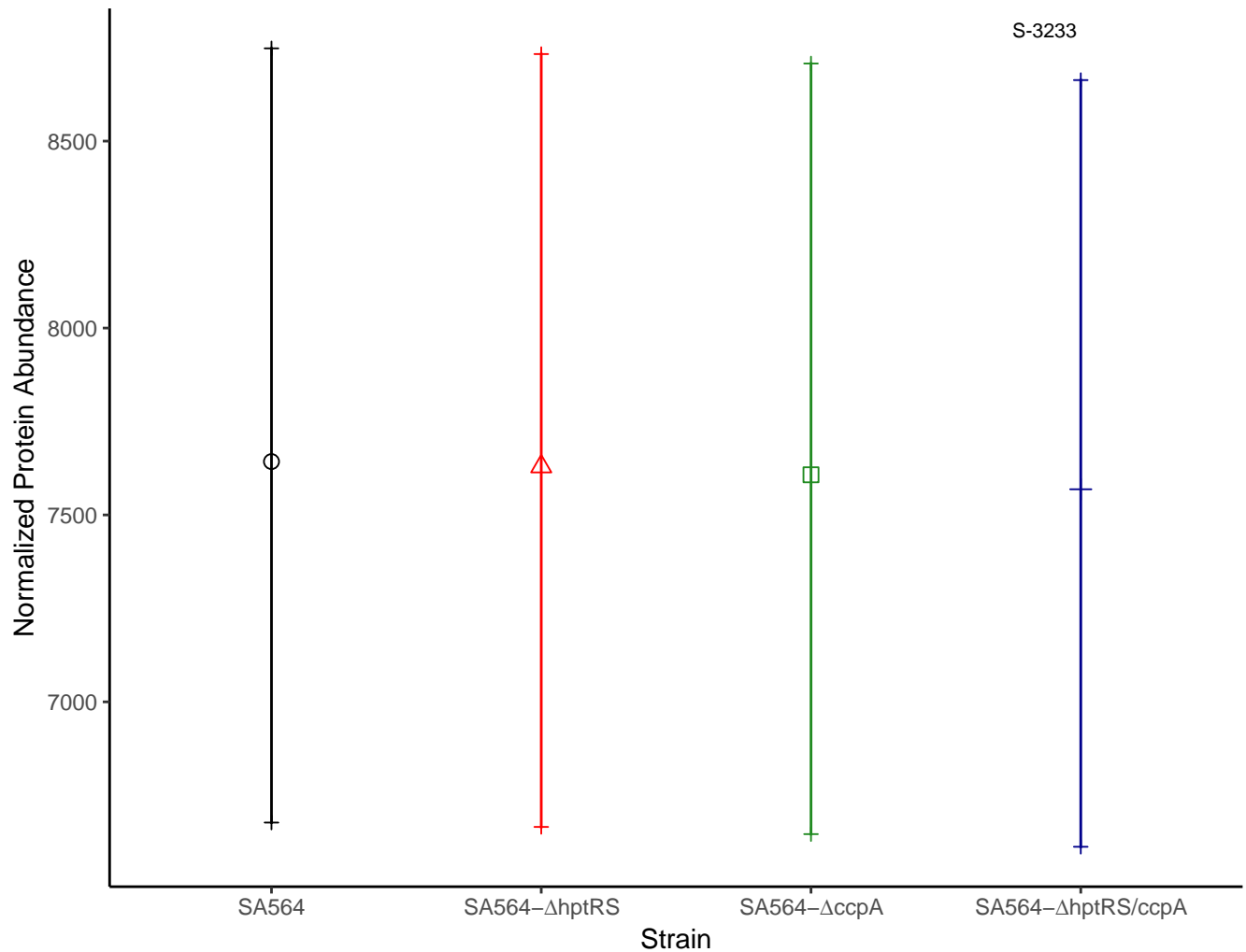
# MURE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

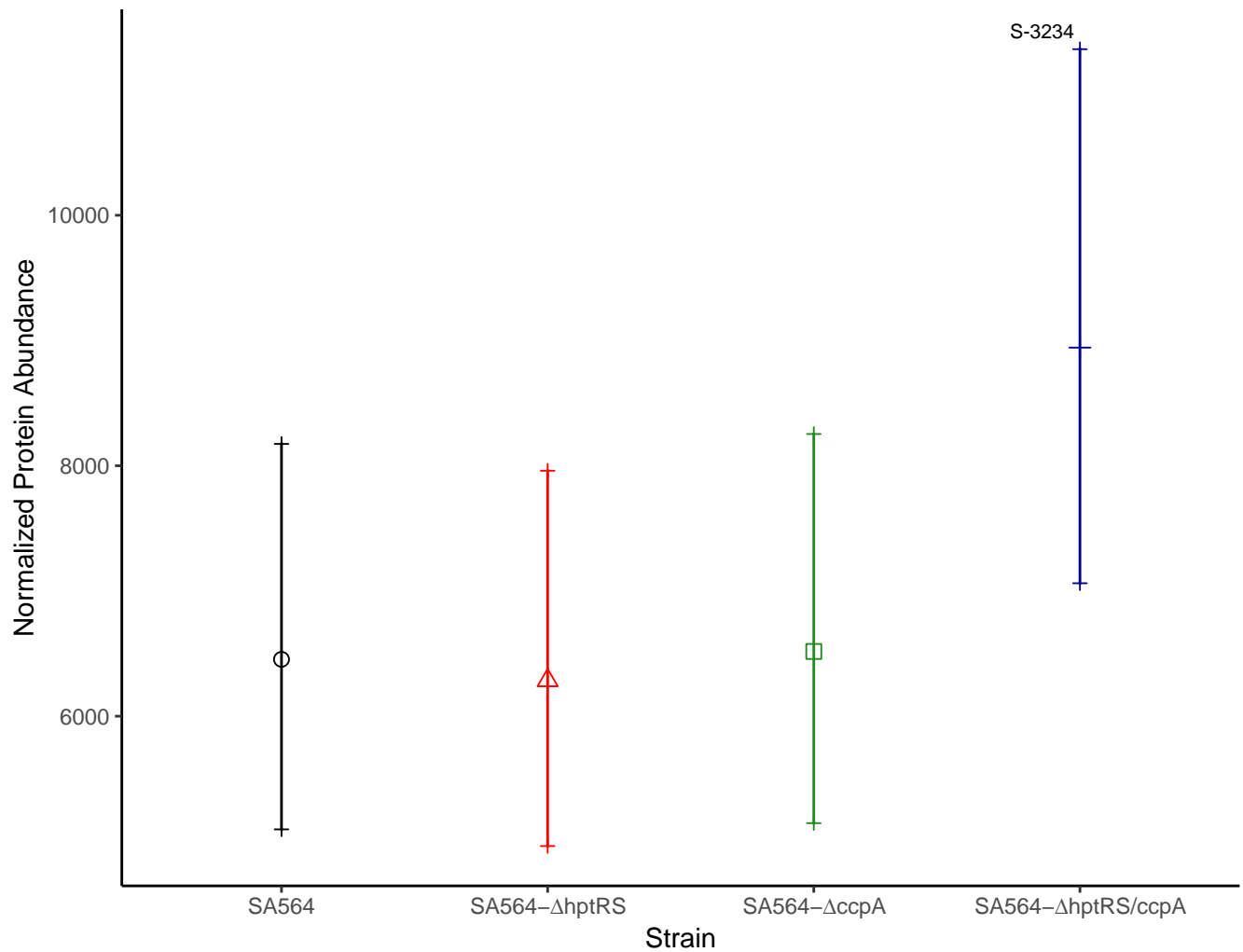


# MURG\_STAAM



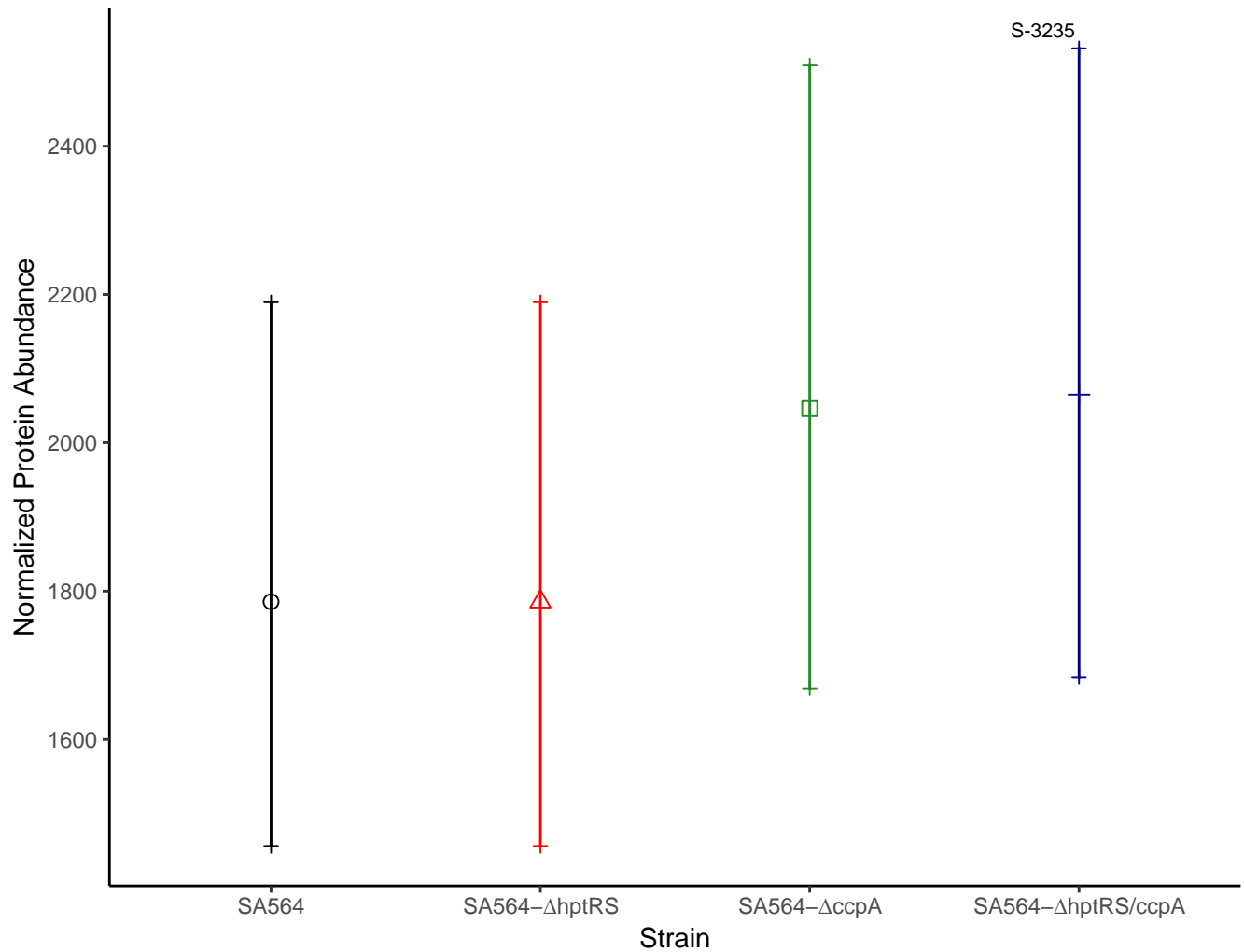
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MURI\_STAAM



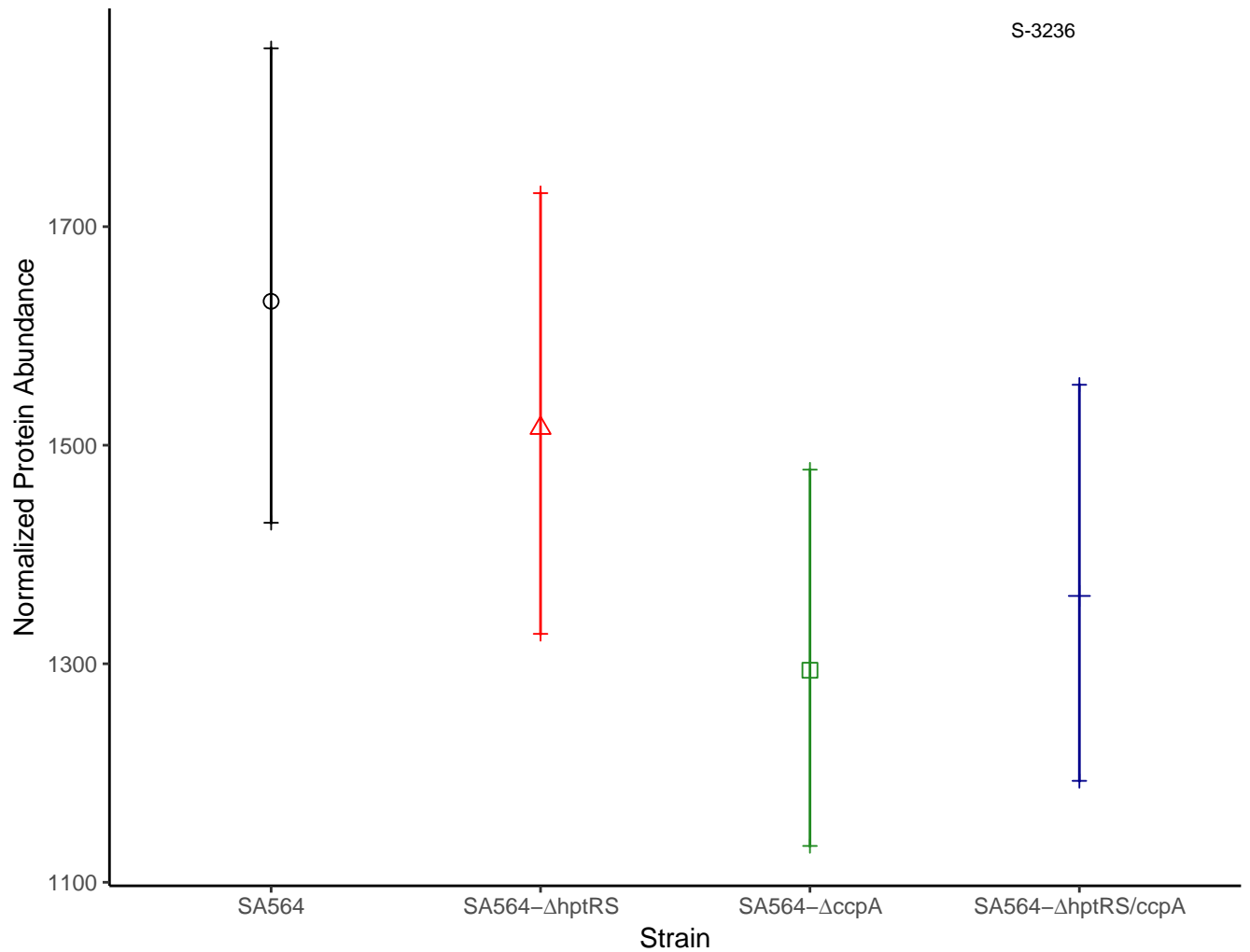
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# MUTS\_STAAM



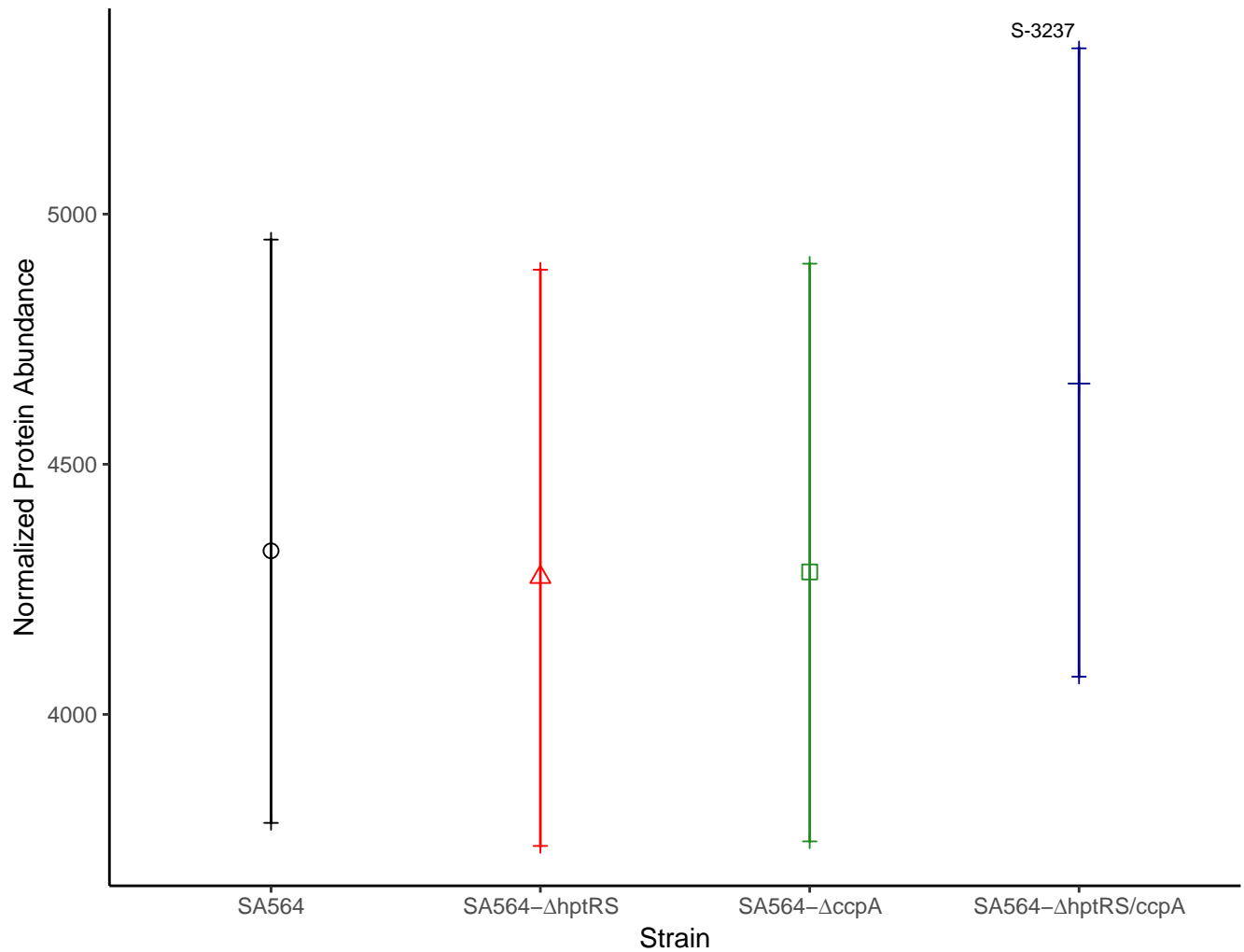
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NADD\_STAAM



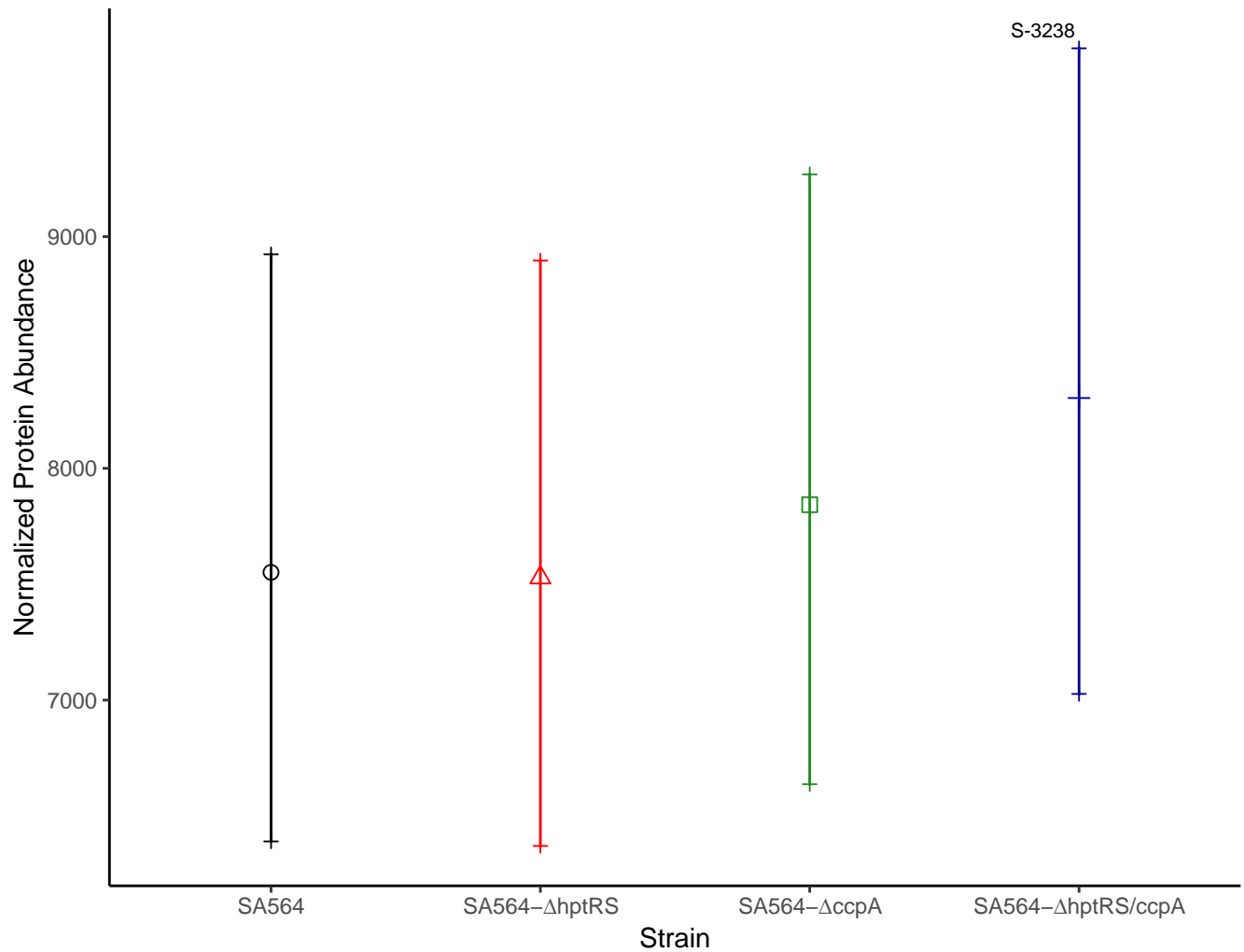
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# NADE\_STAAM



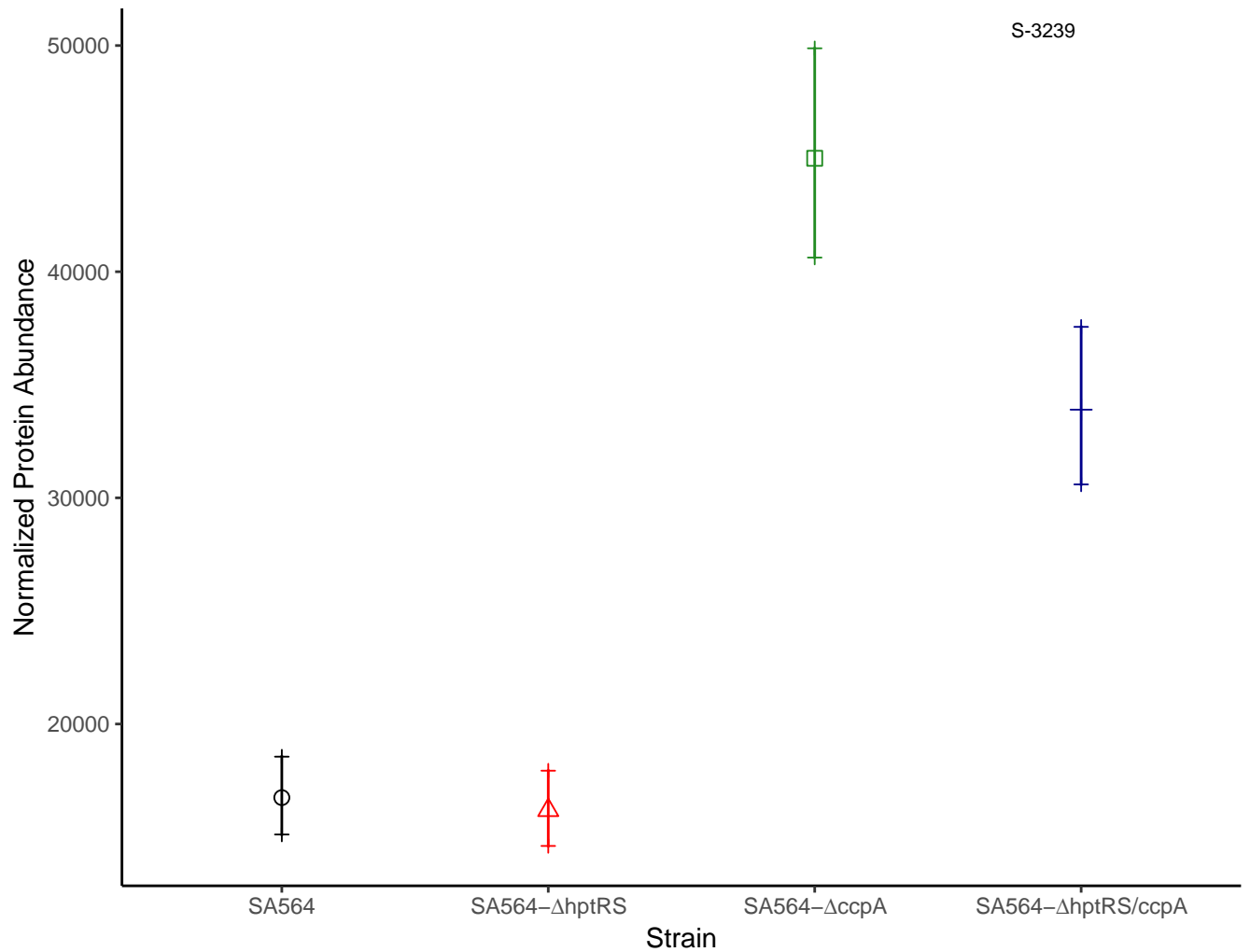
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NAGD\_STAAM



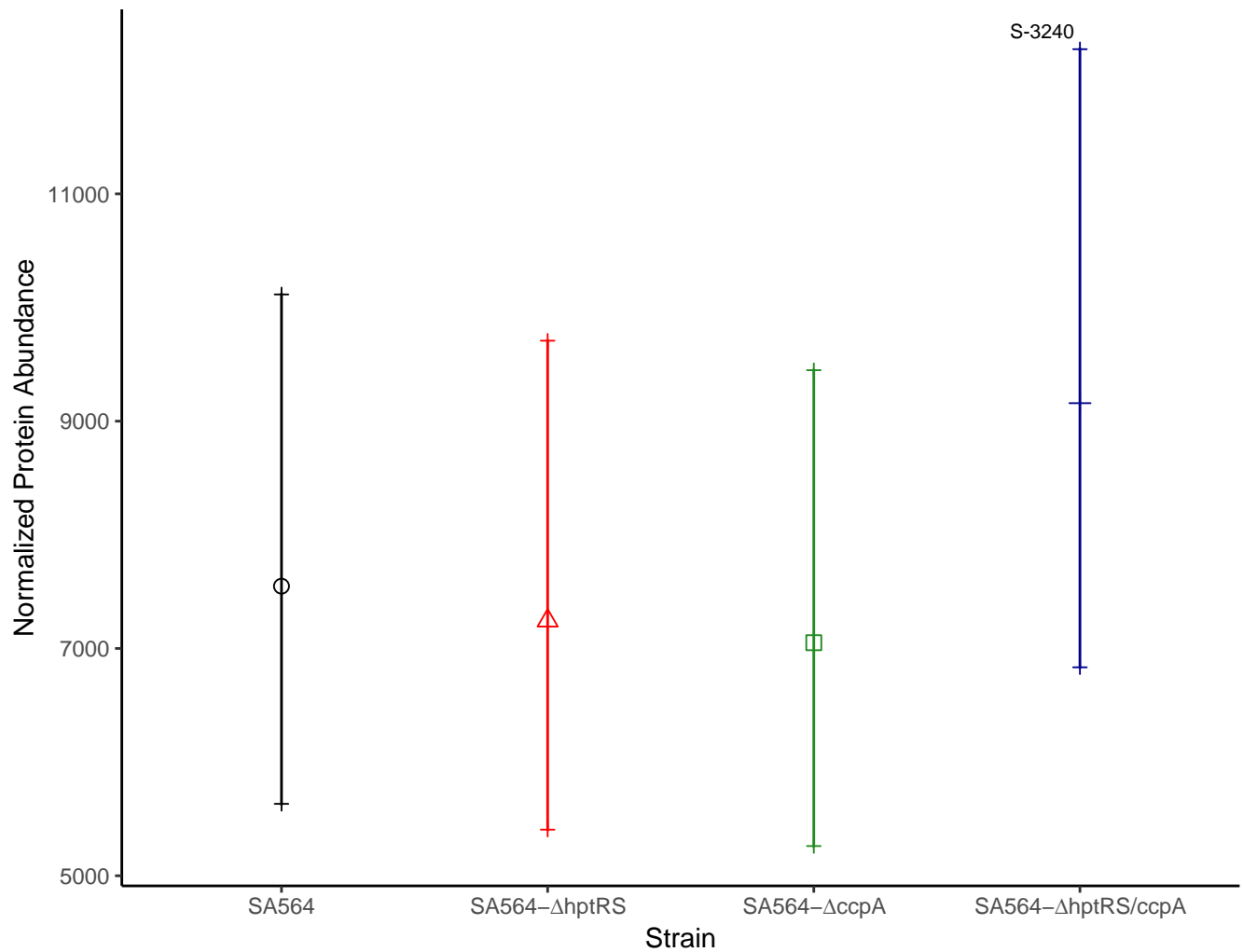
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# NDK\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

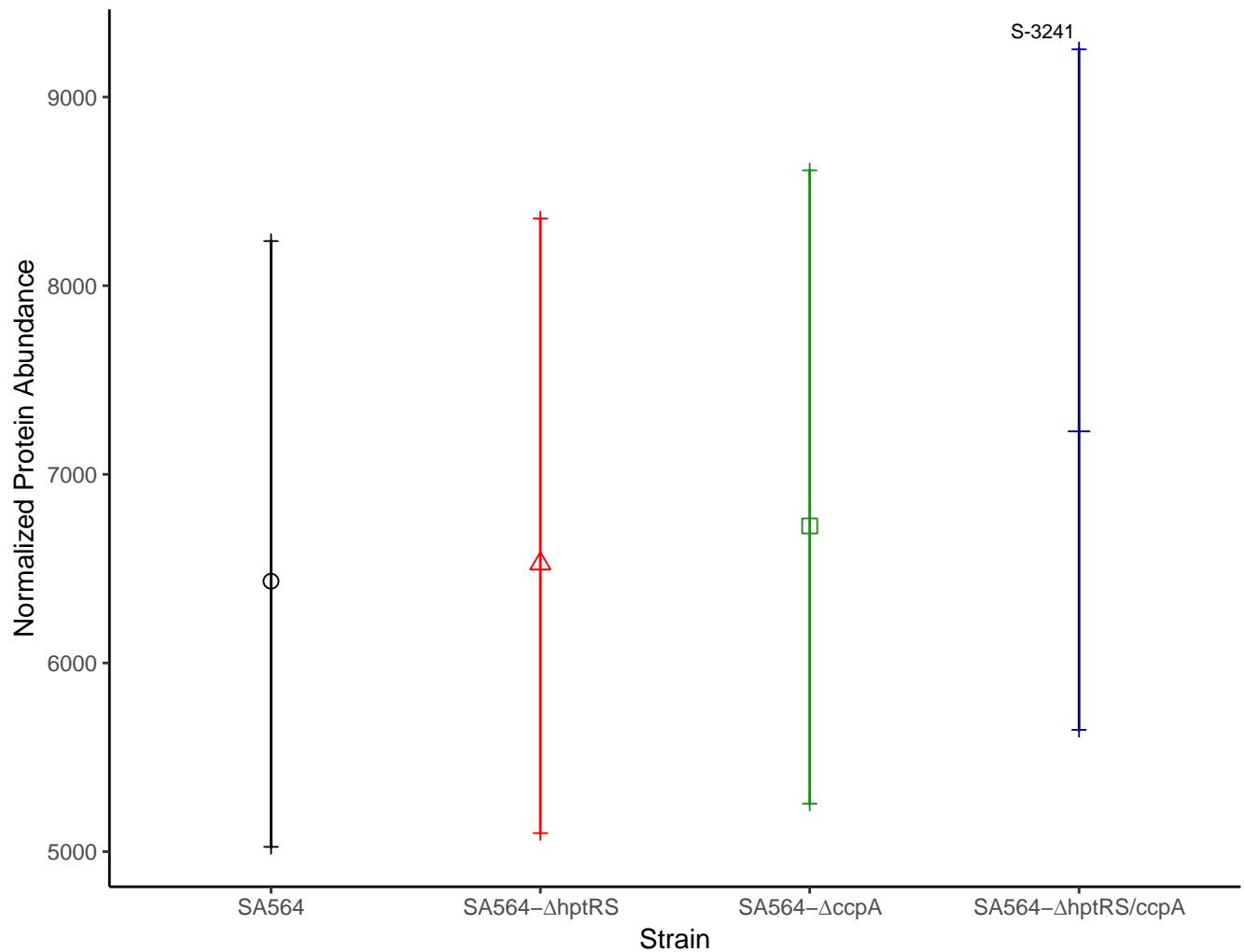
# NRDR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

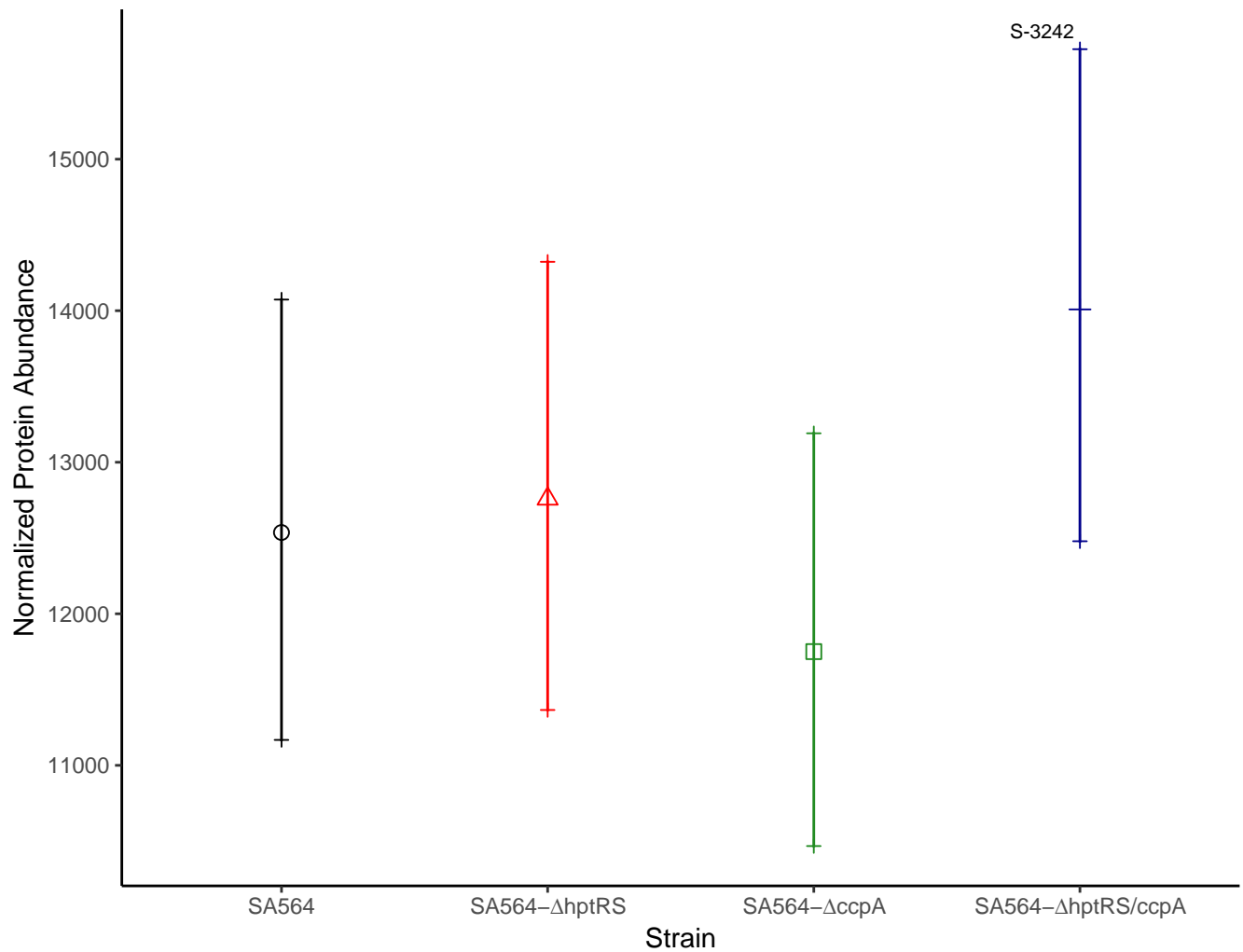


# NREB\_STAAM



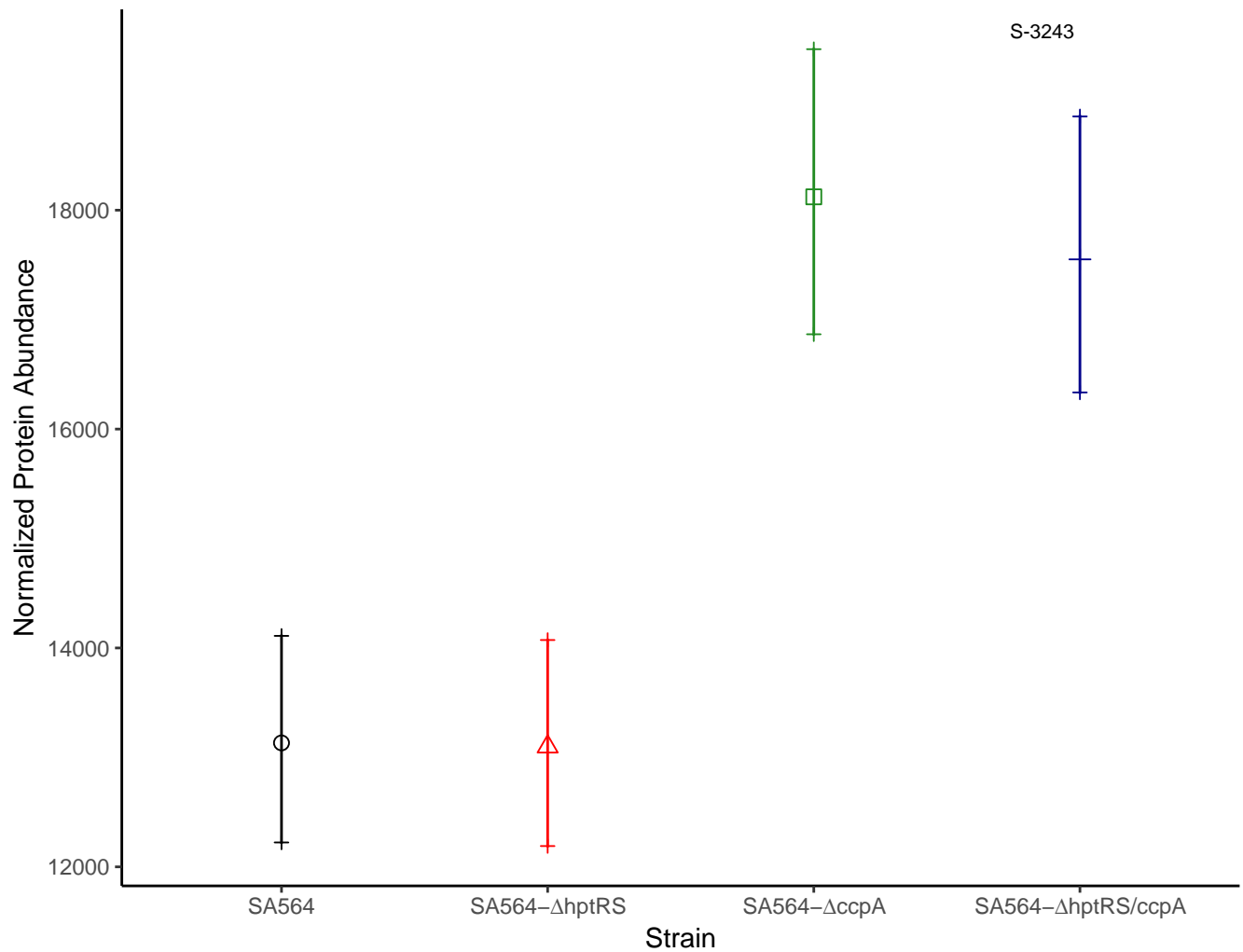
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# NUSG\_STAAM



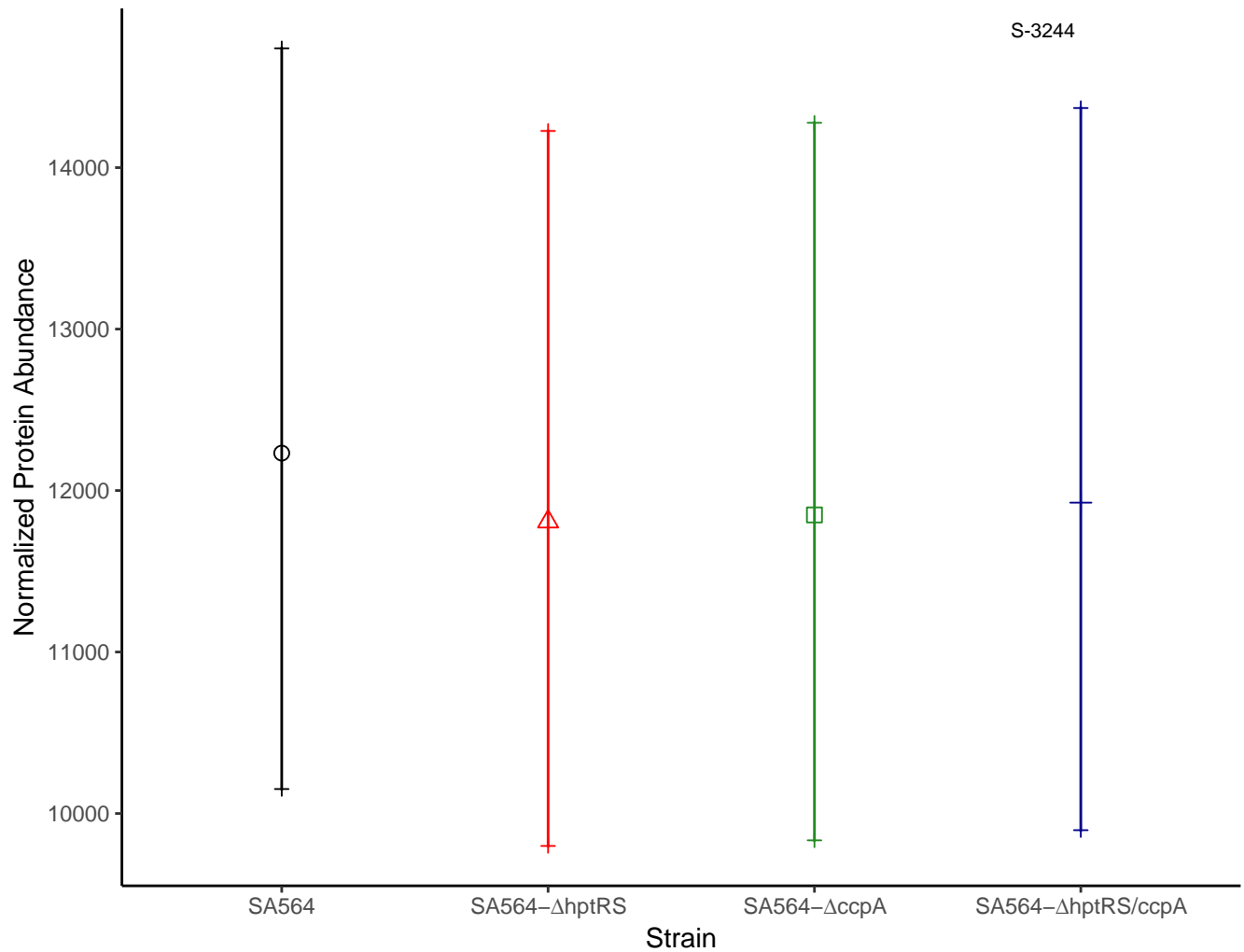
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OAT2\_STAAM



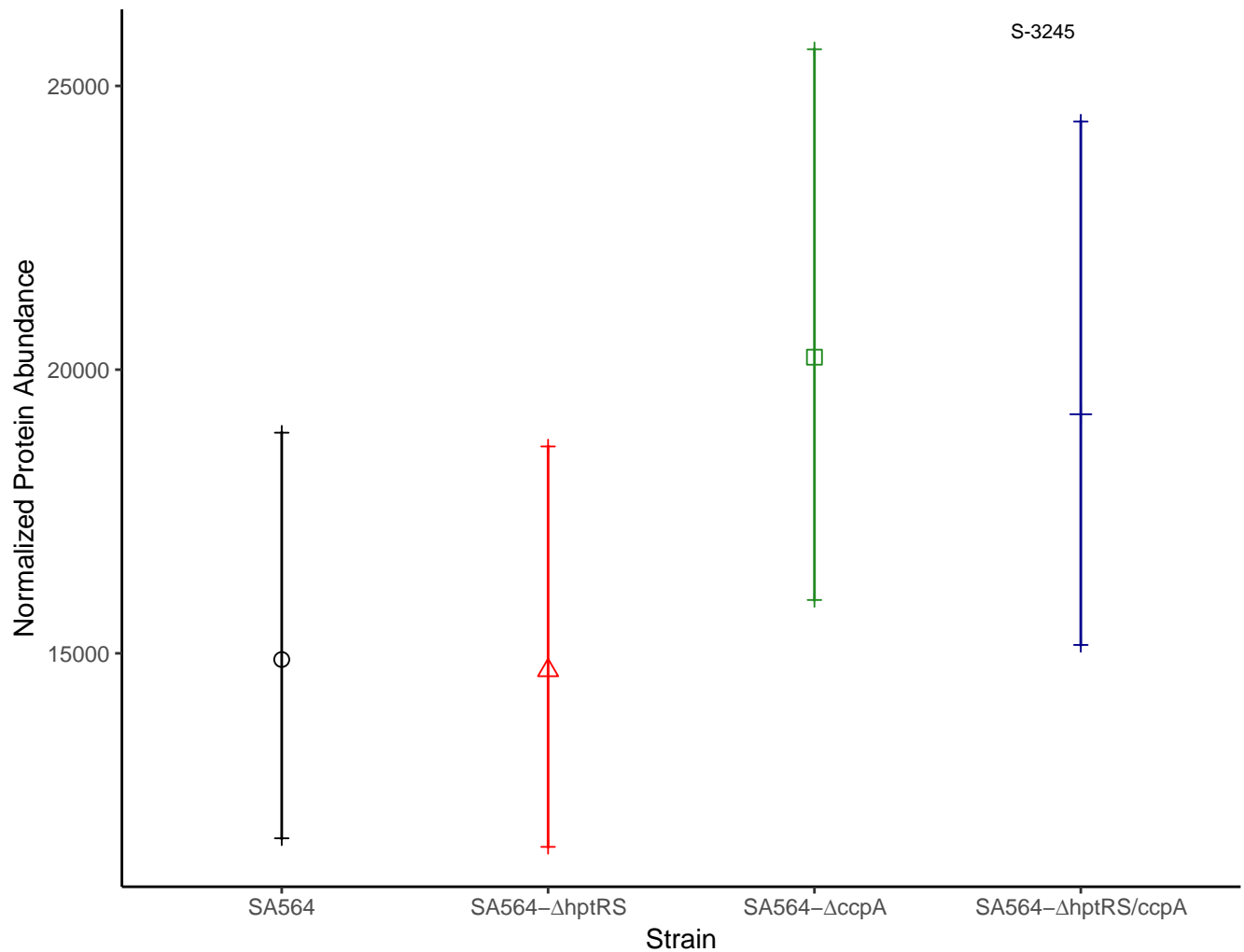
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OBG\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

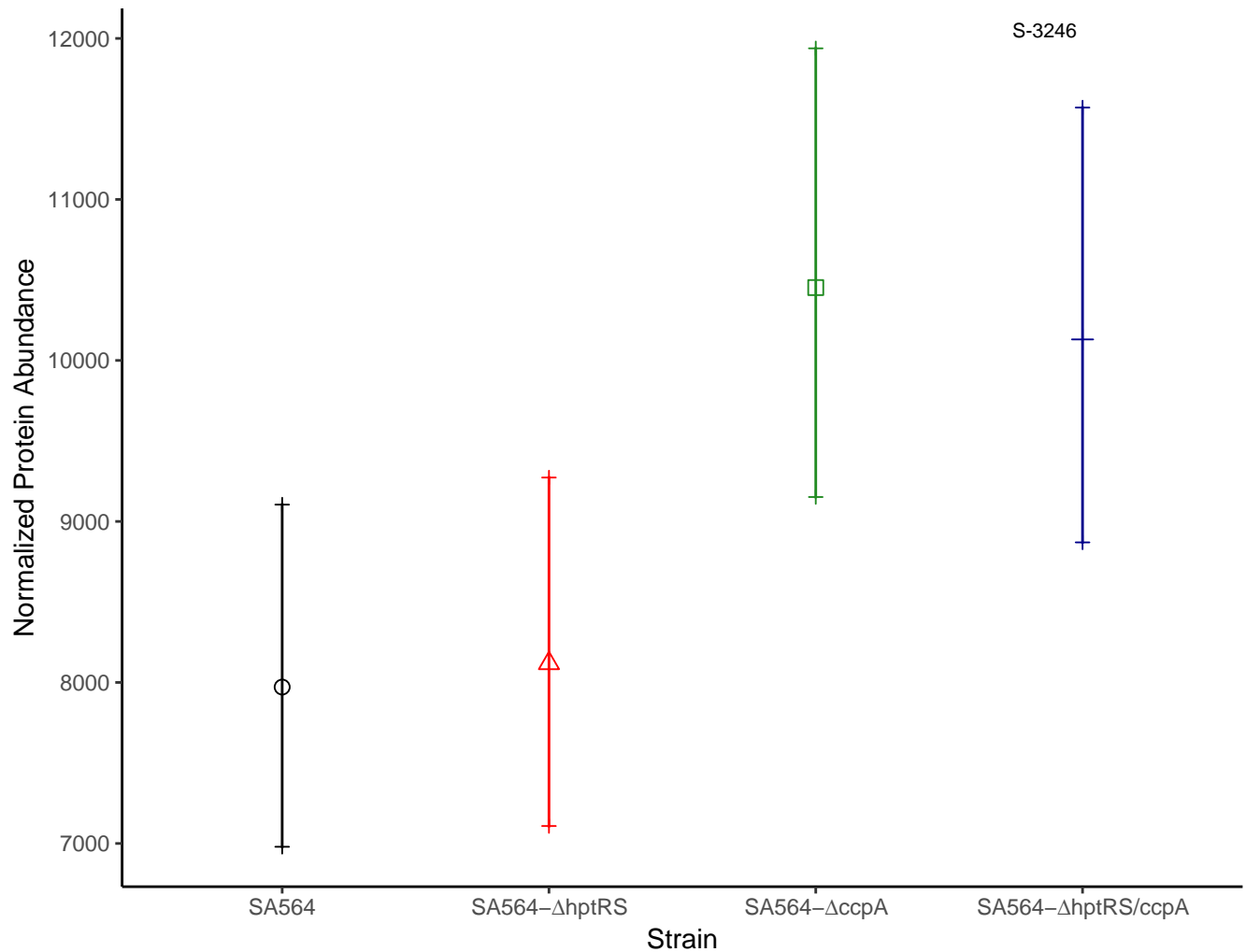
# ODO1\_STAAM



S-3245

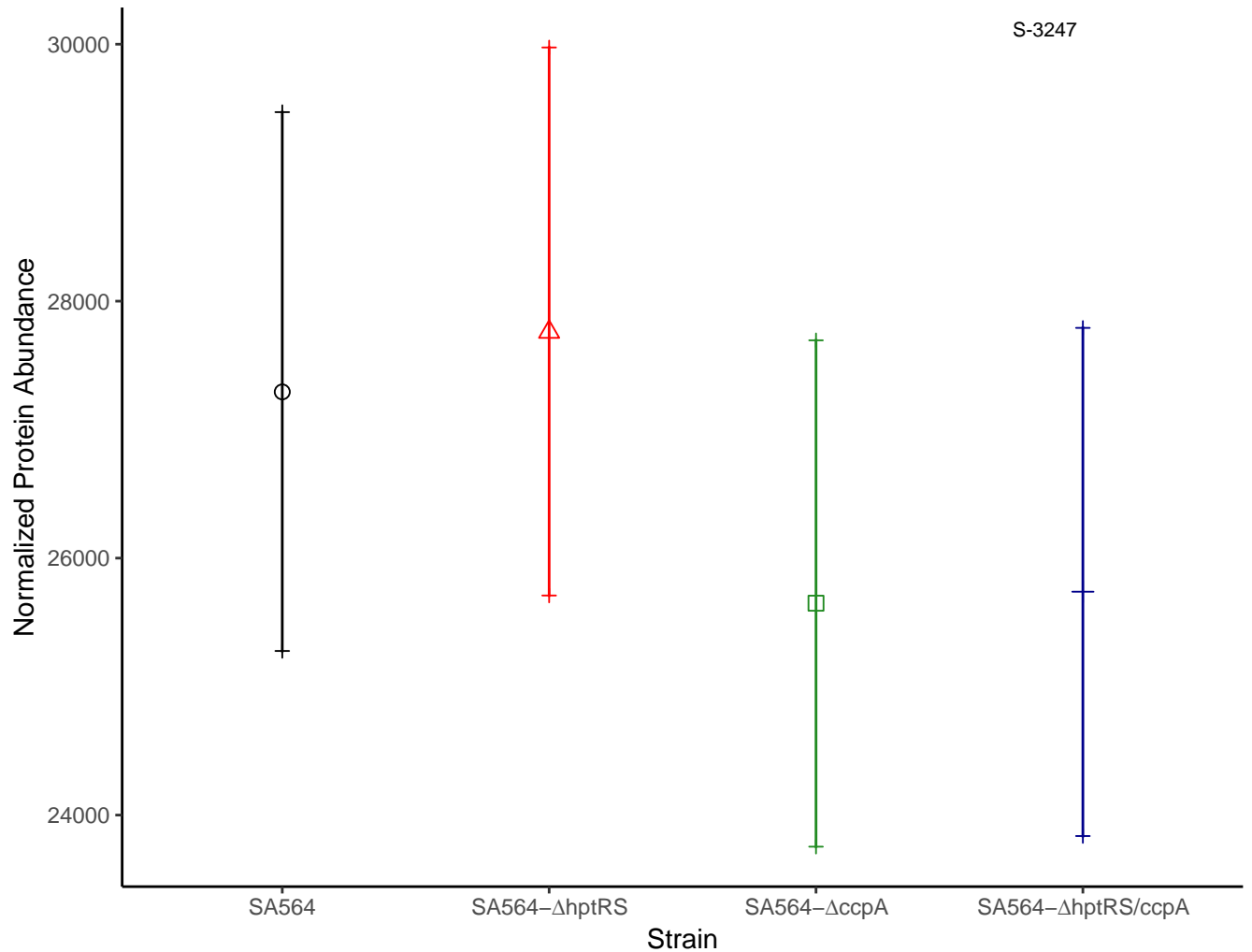
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODO2\_STAAM



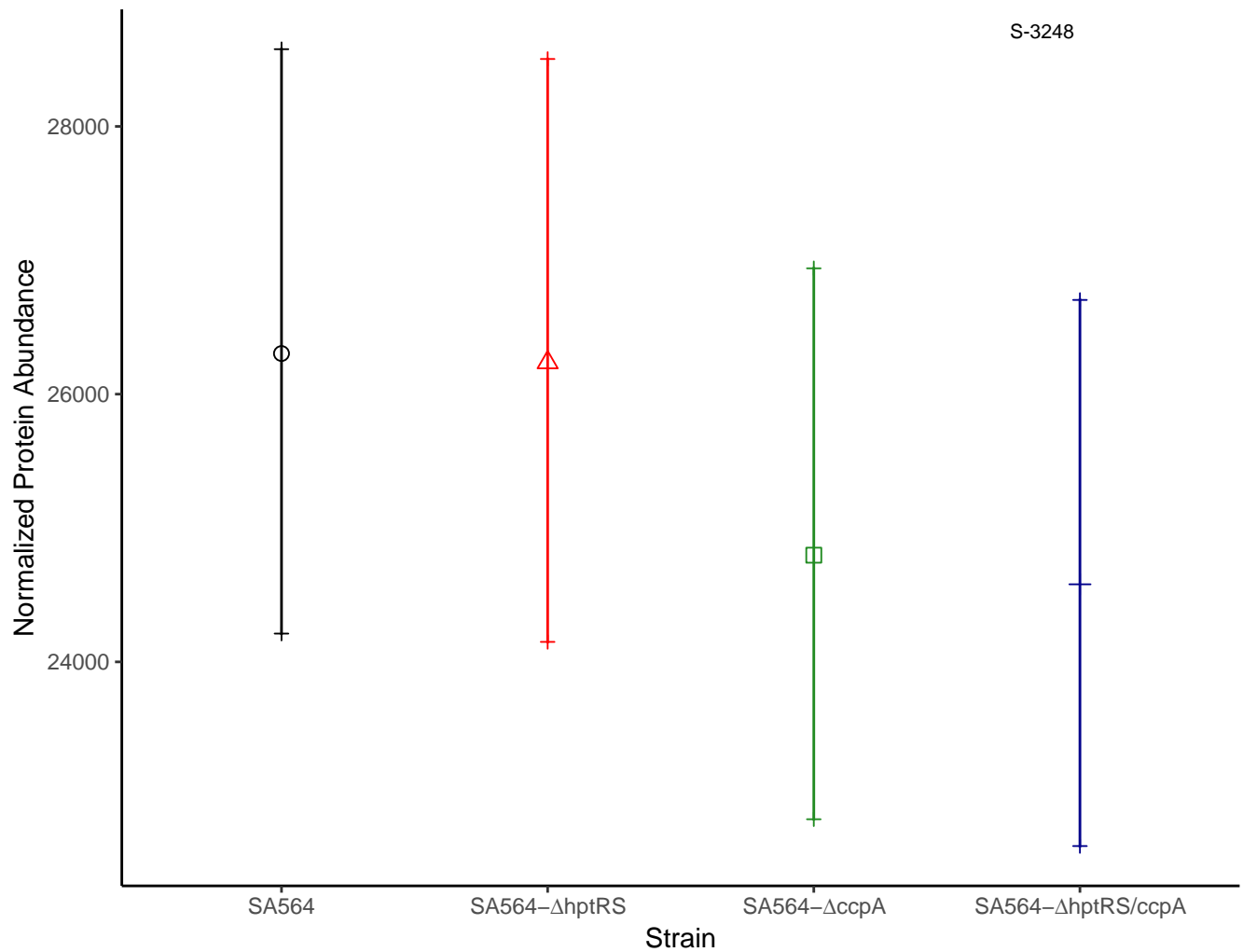
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ODP2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

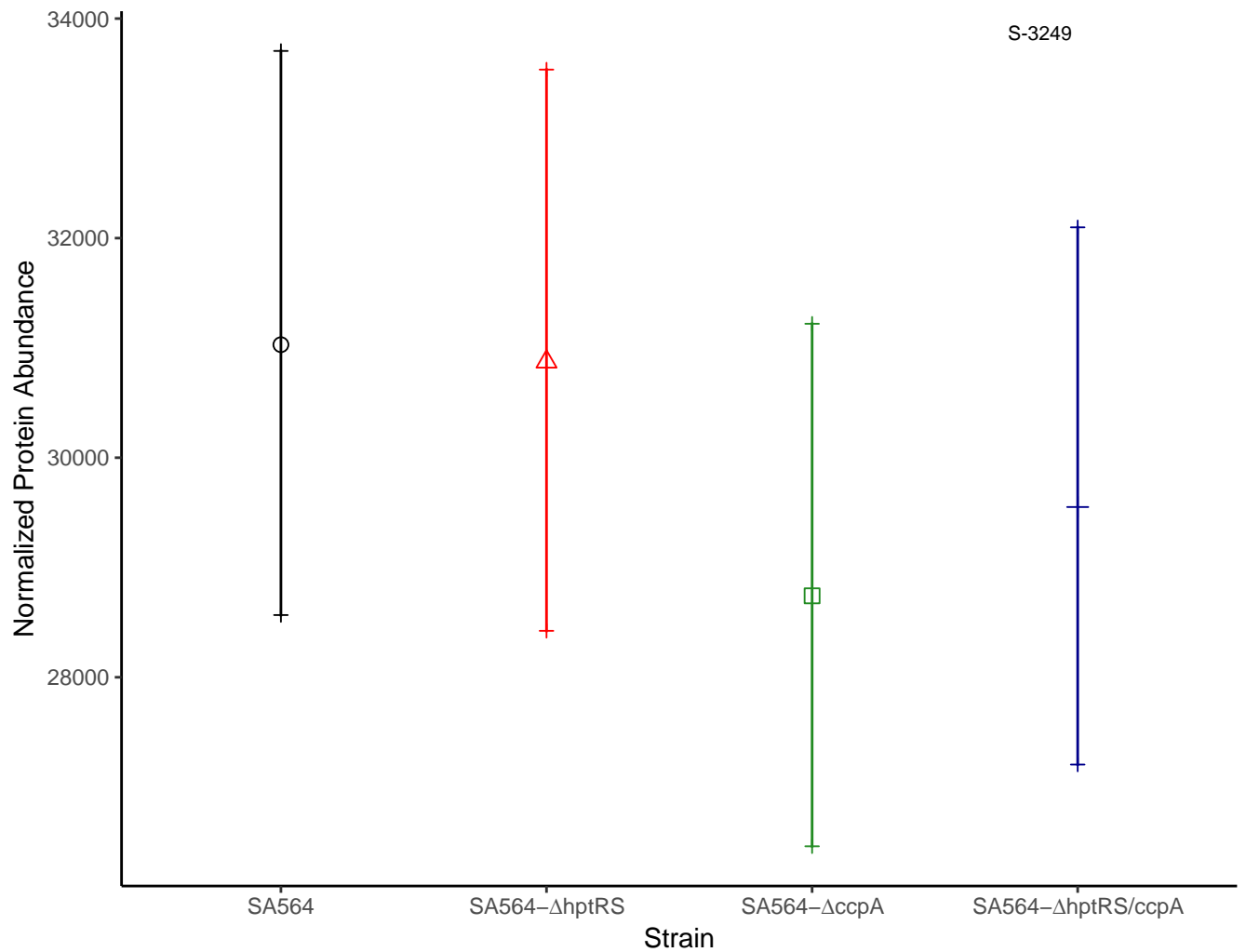
# ODPA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

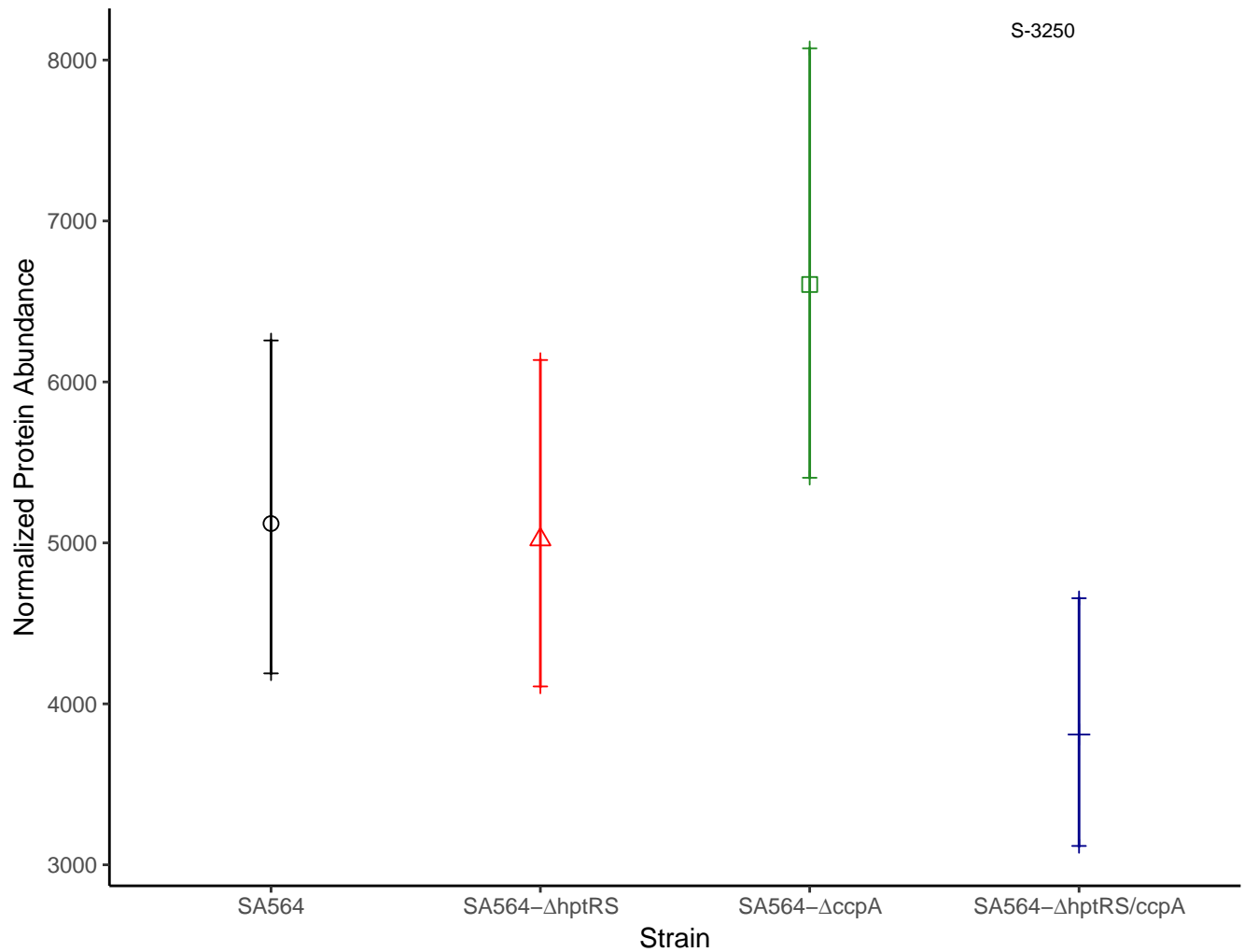


# ODPB\_STAAM



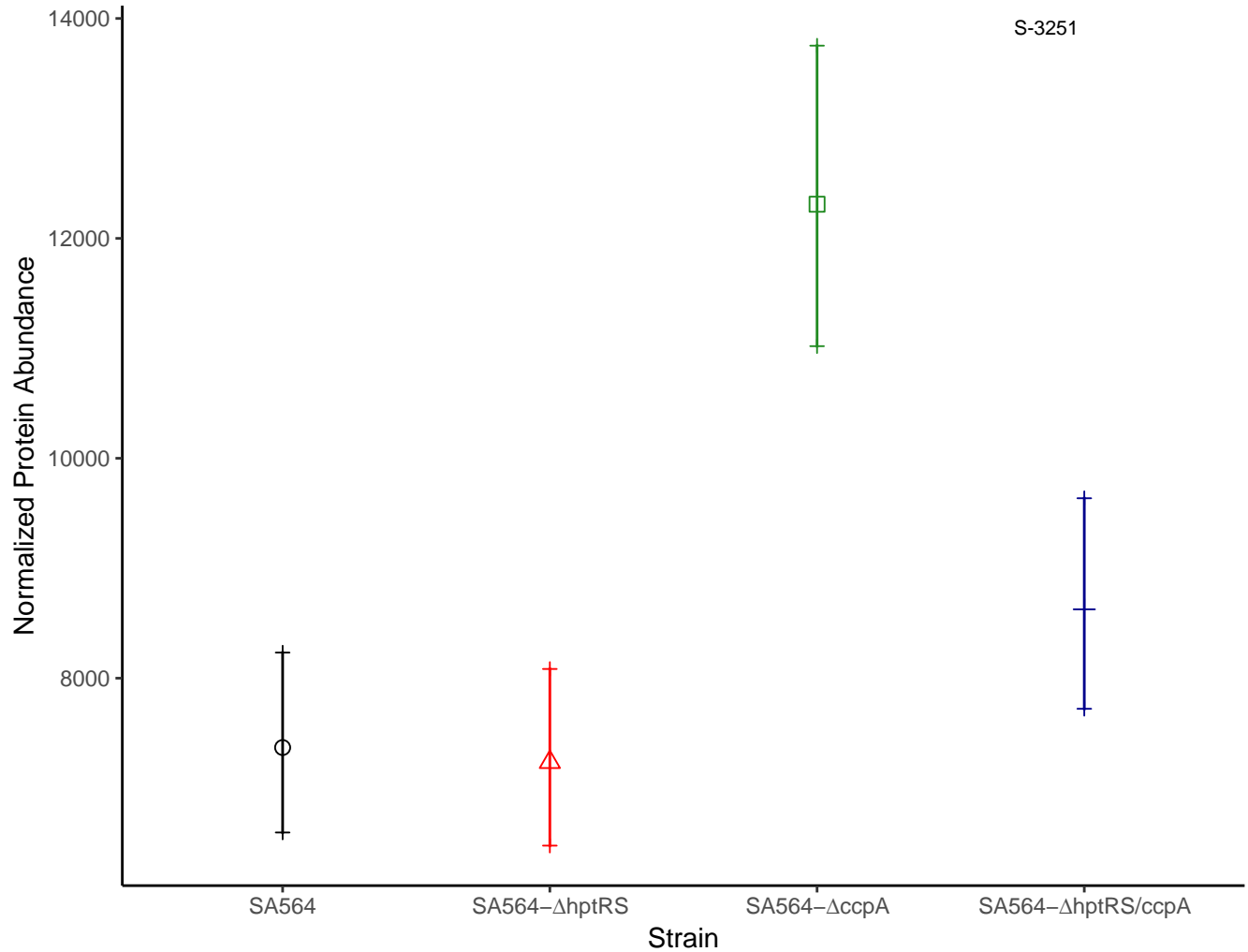
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OHRL\_STAAM



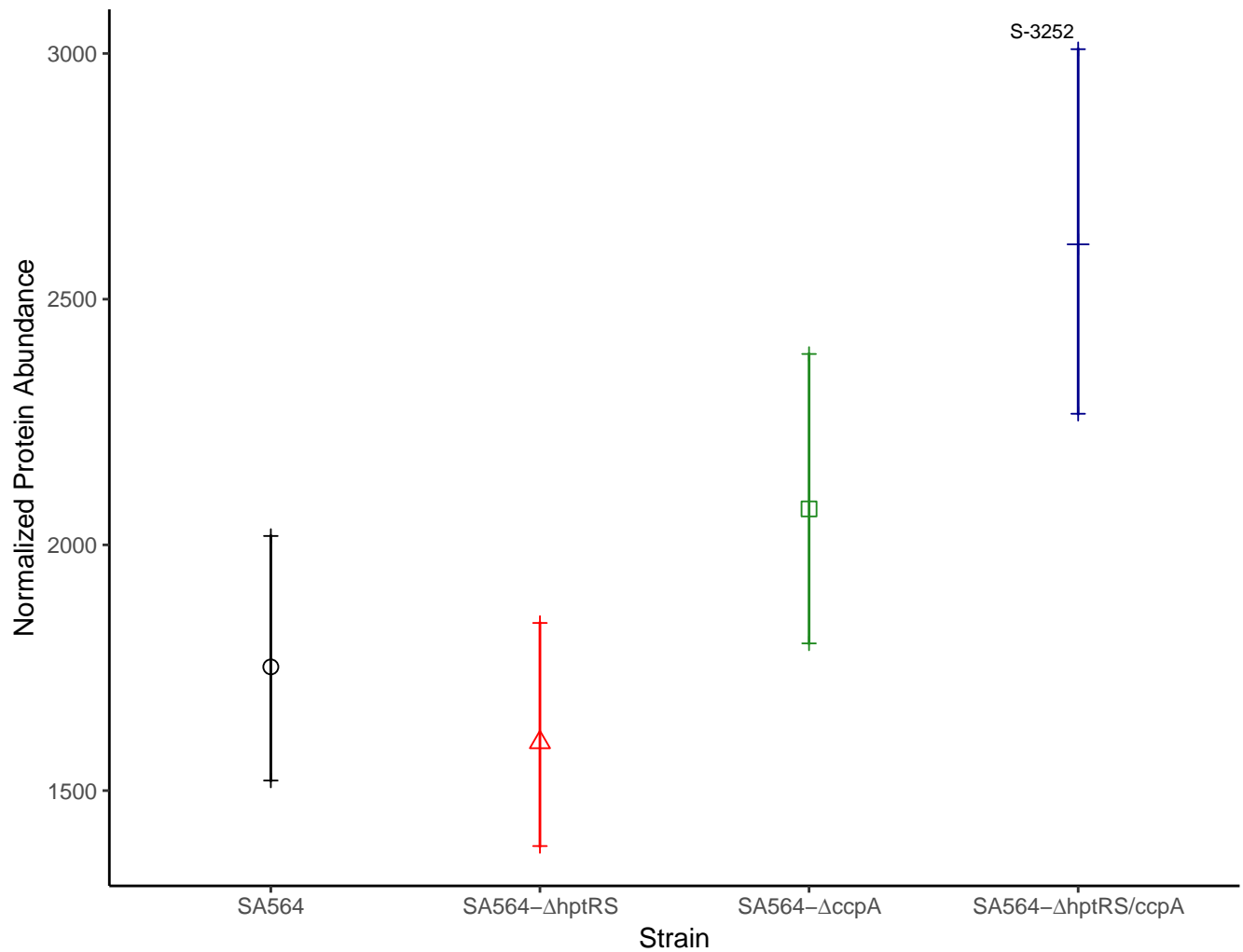
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# OTC\_STAAM



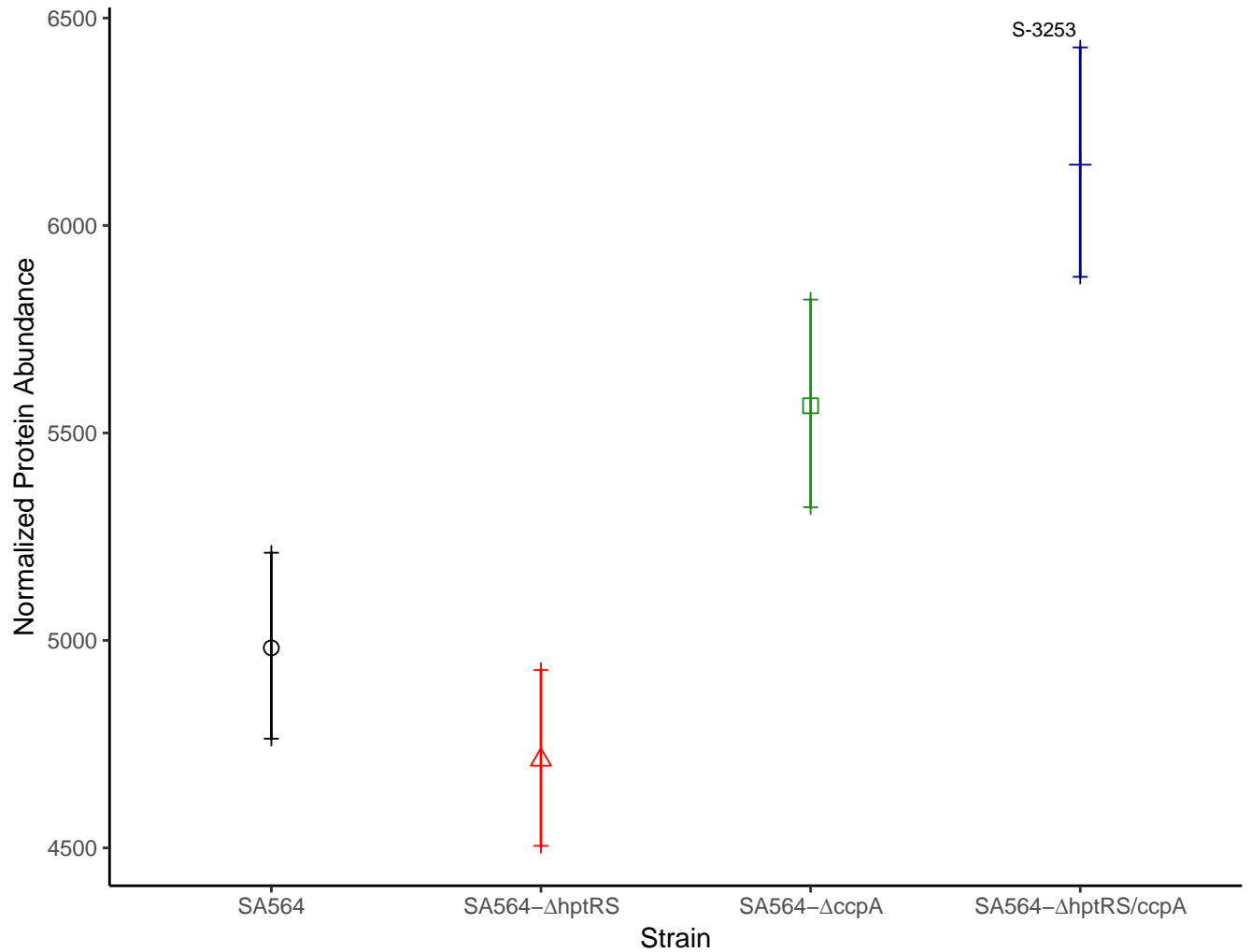
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# OTCC\_STAAM



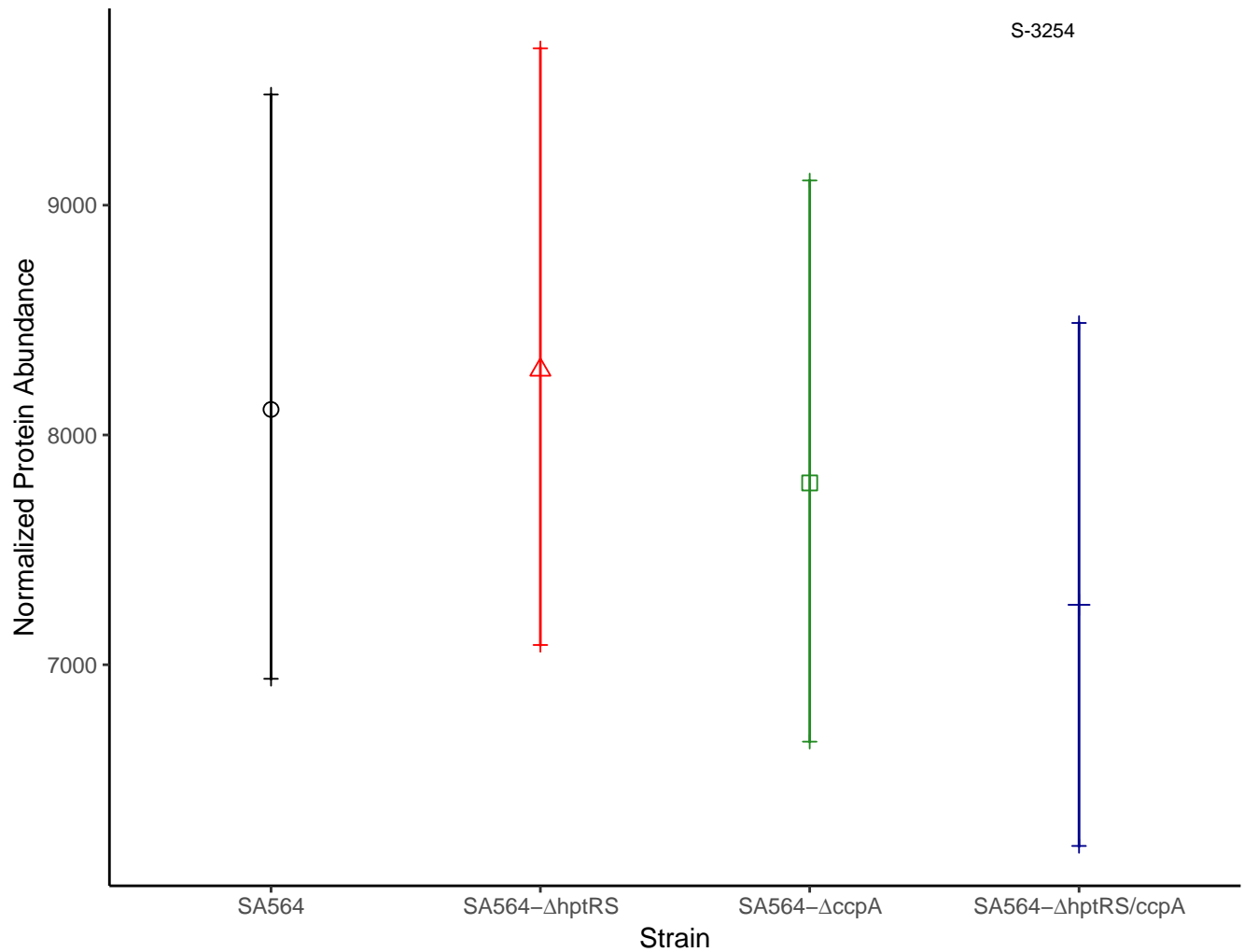
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# P5CR\_STAAM



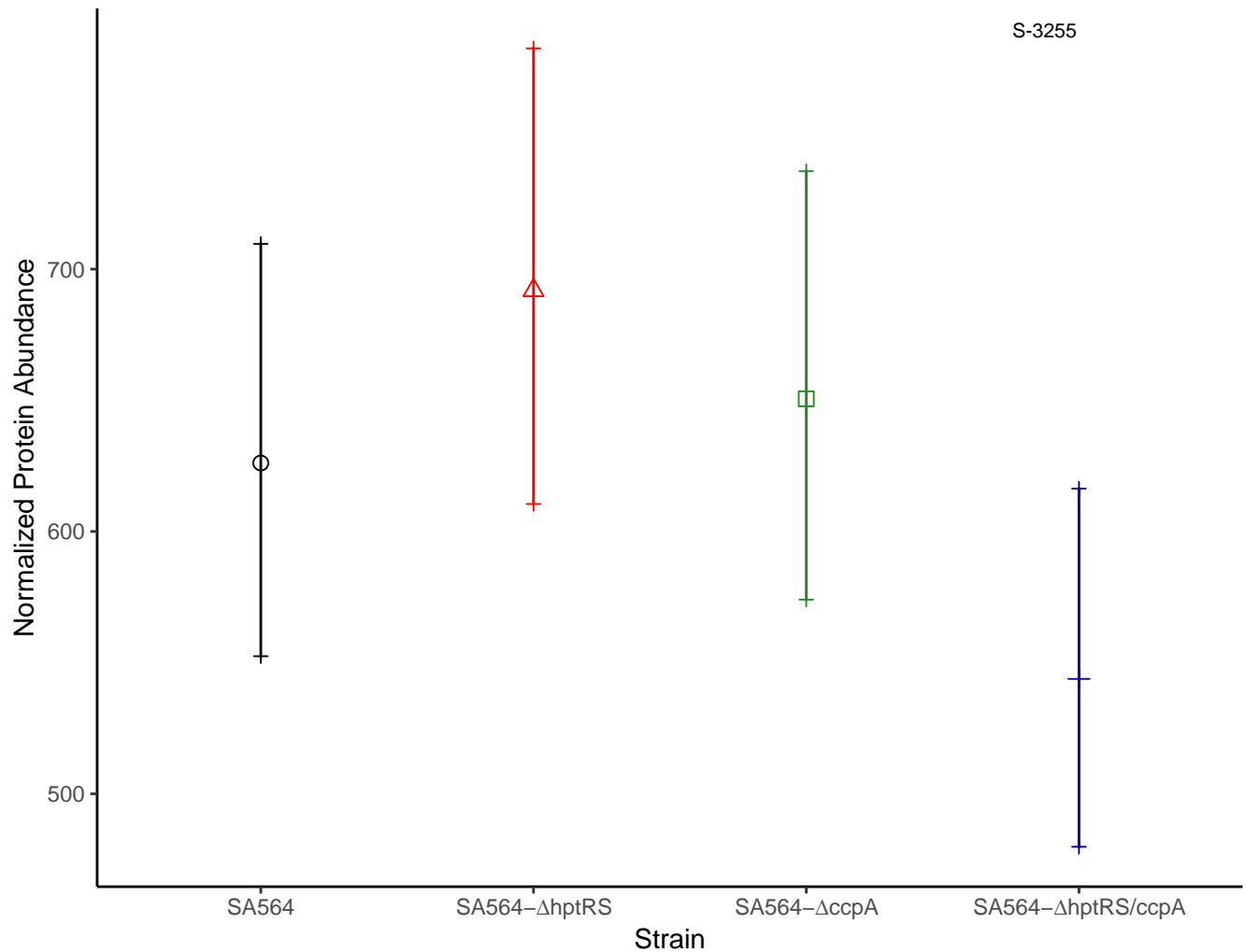
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PANB\_STAAM



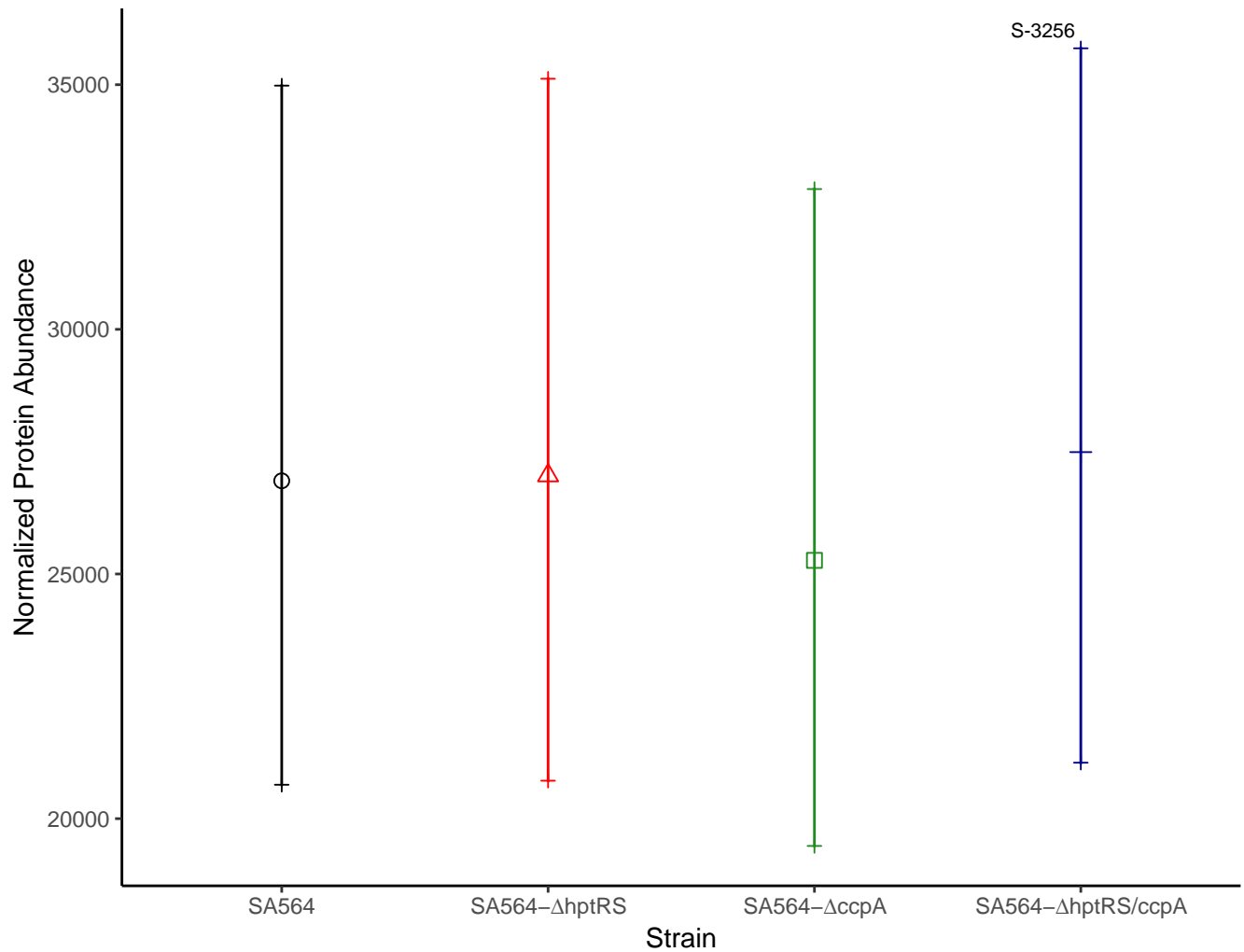
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PAND\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

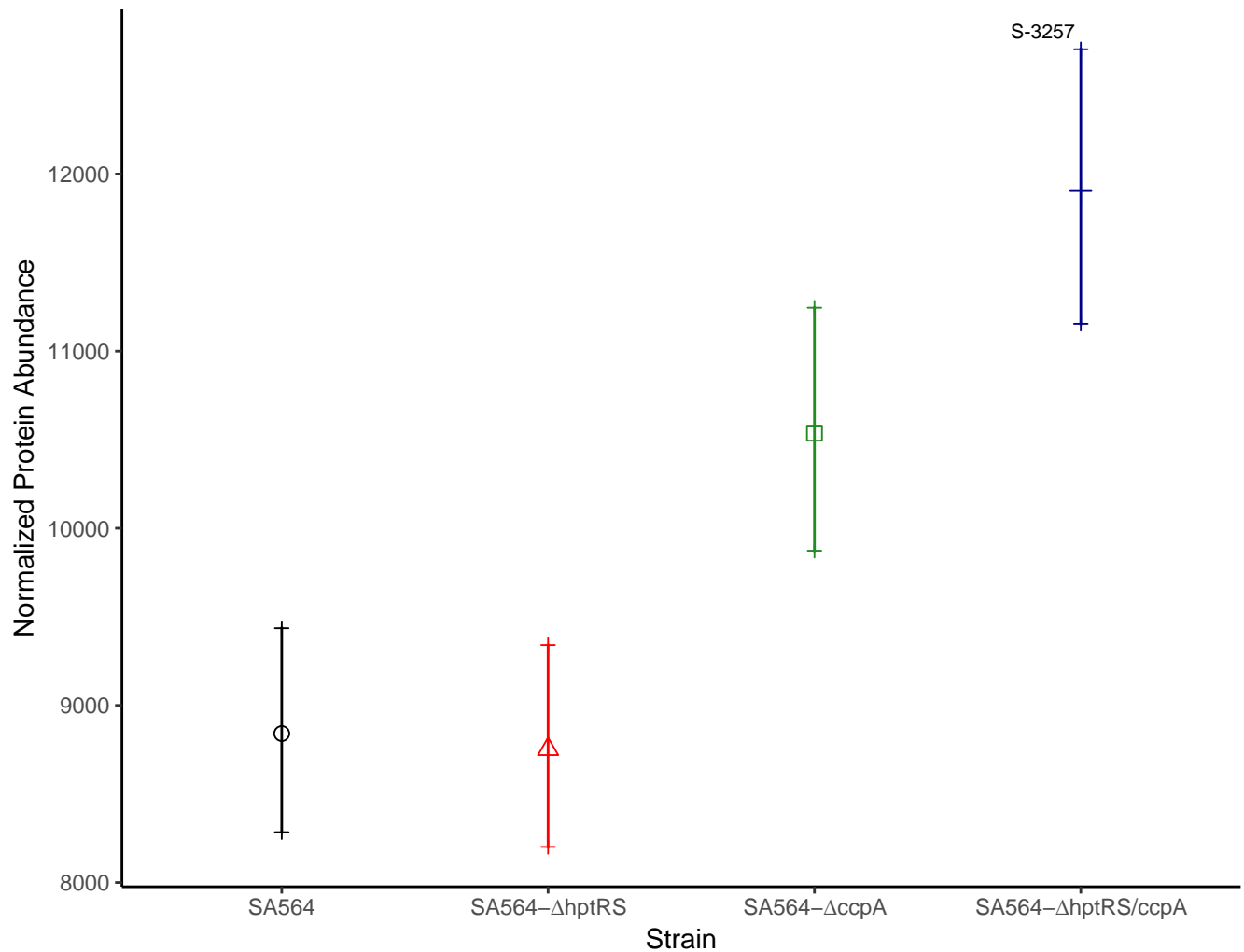
# PARC\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

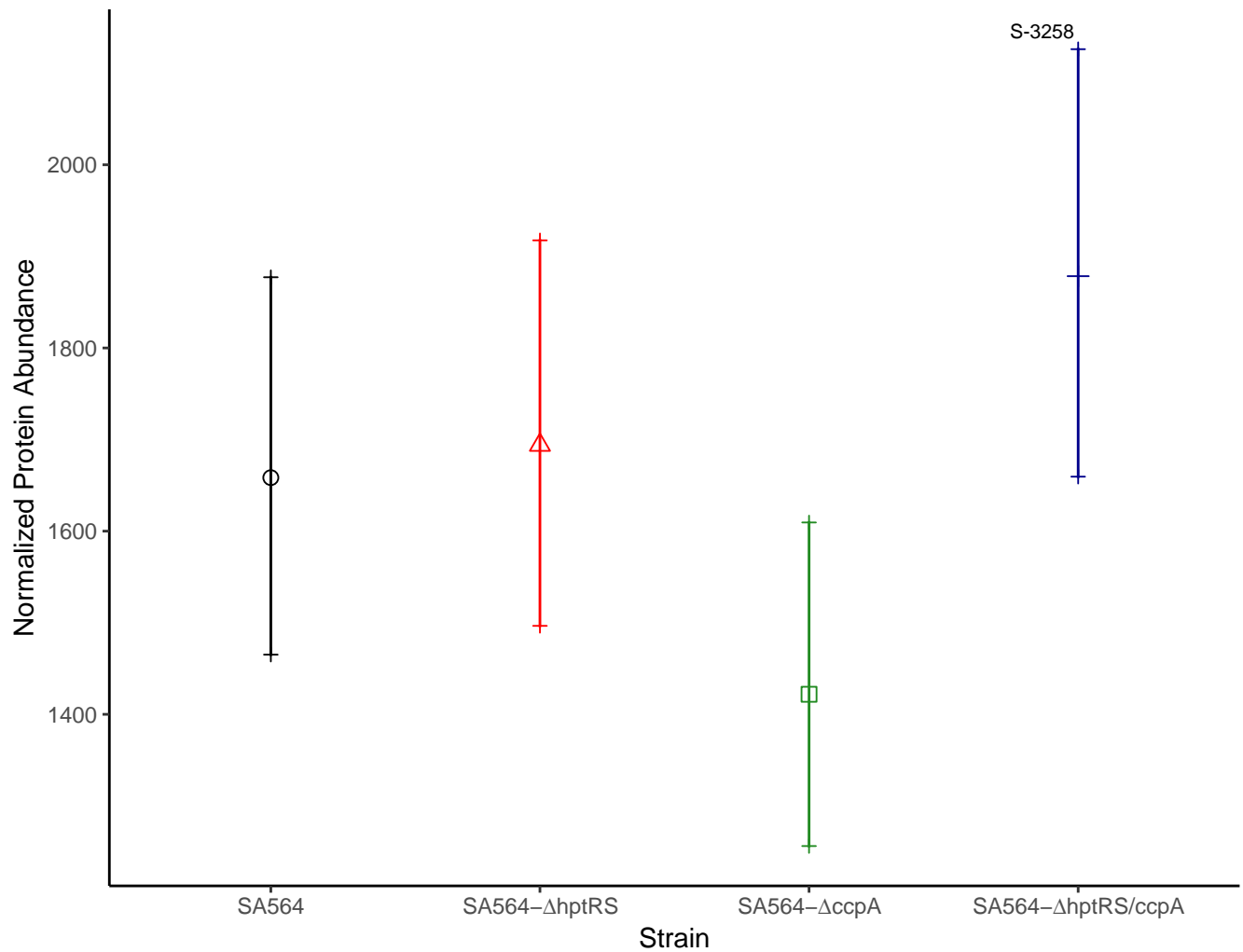


# PCKA\_STAAM



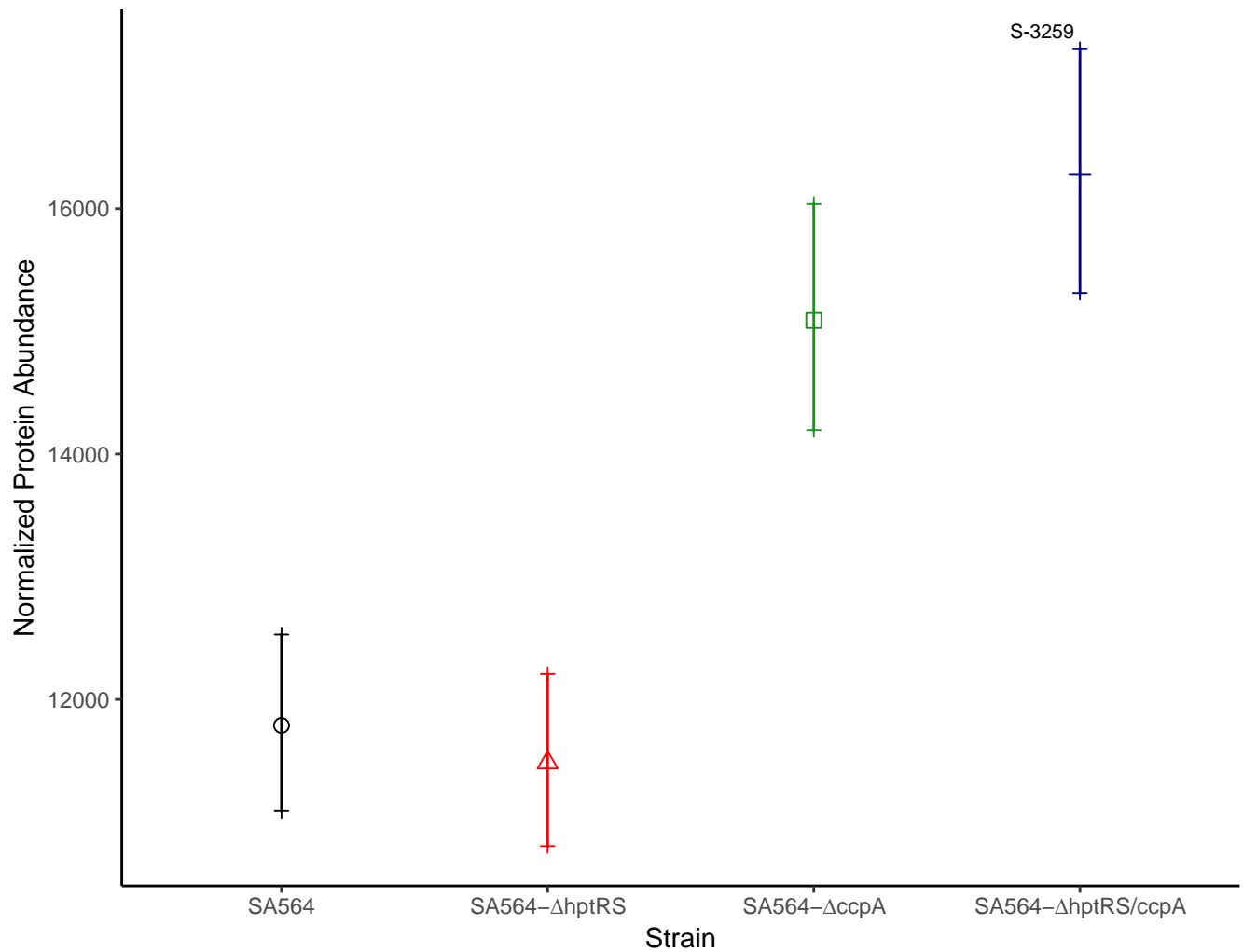
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PCRA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

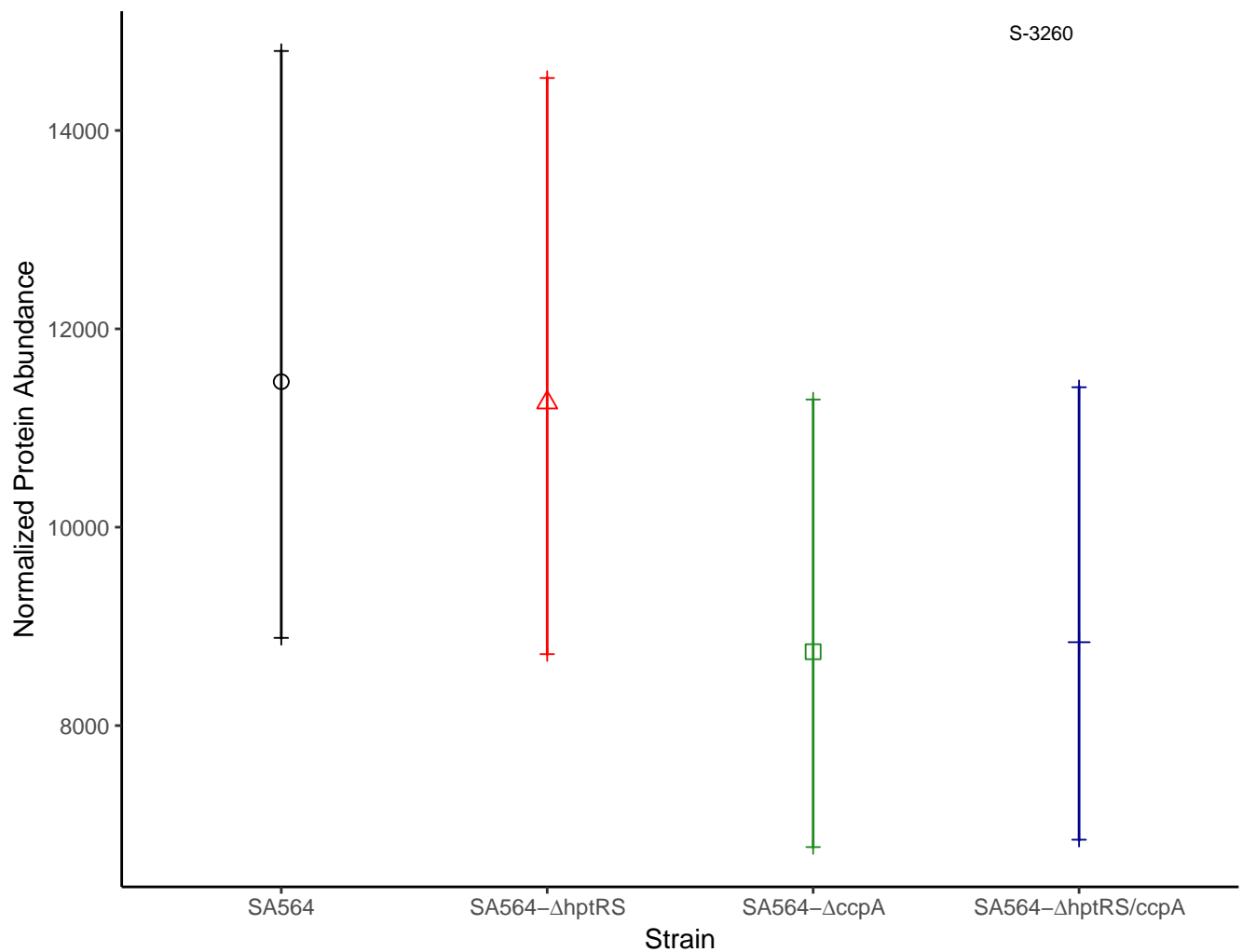
# PDP\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

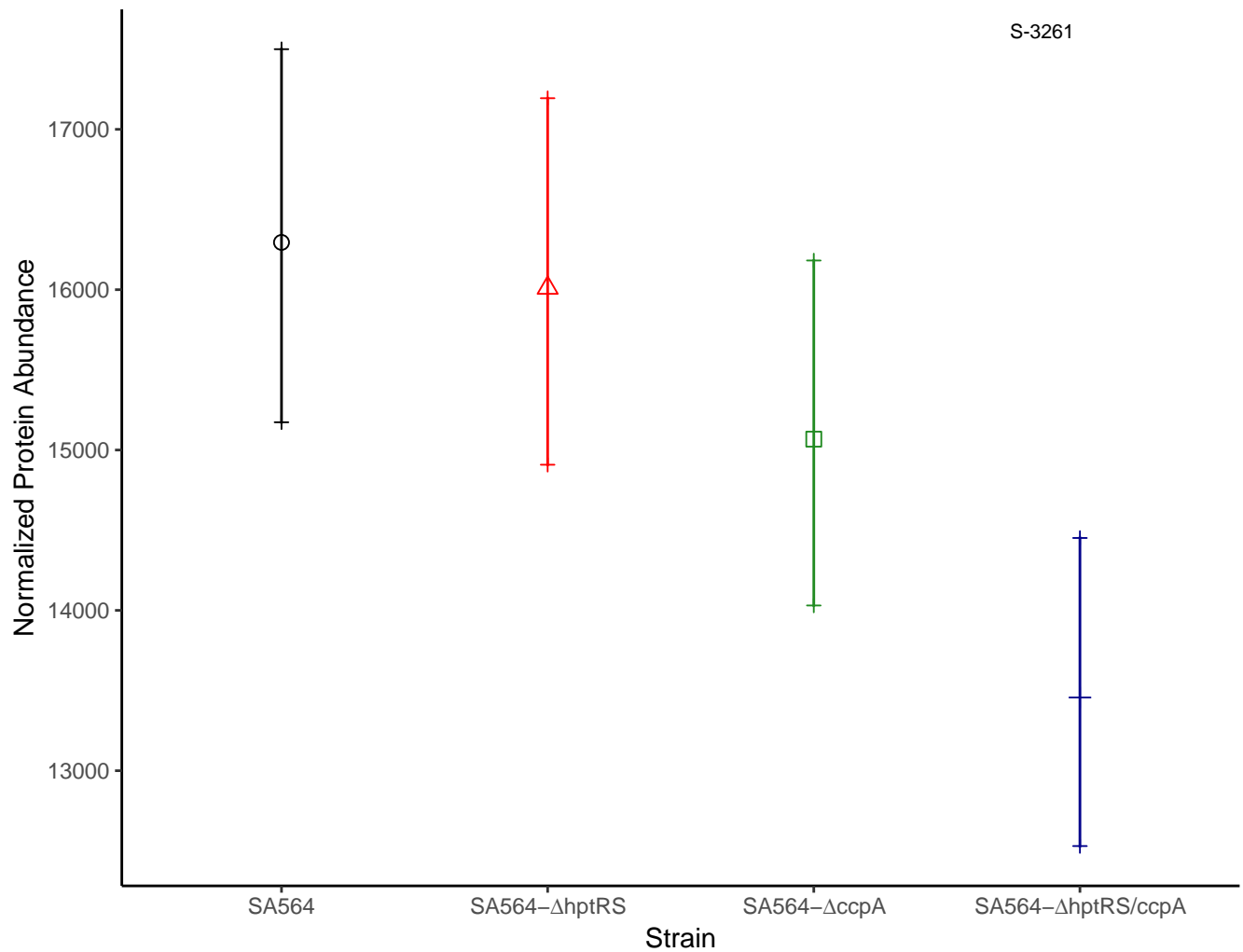
S-3259

# PDRP\_STAAM



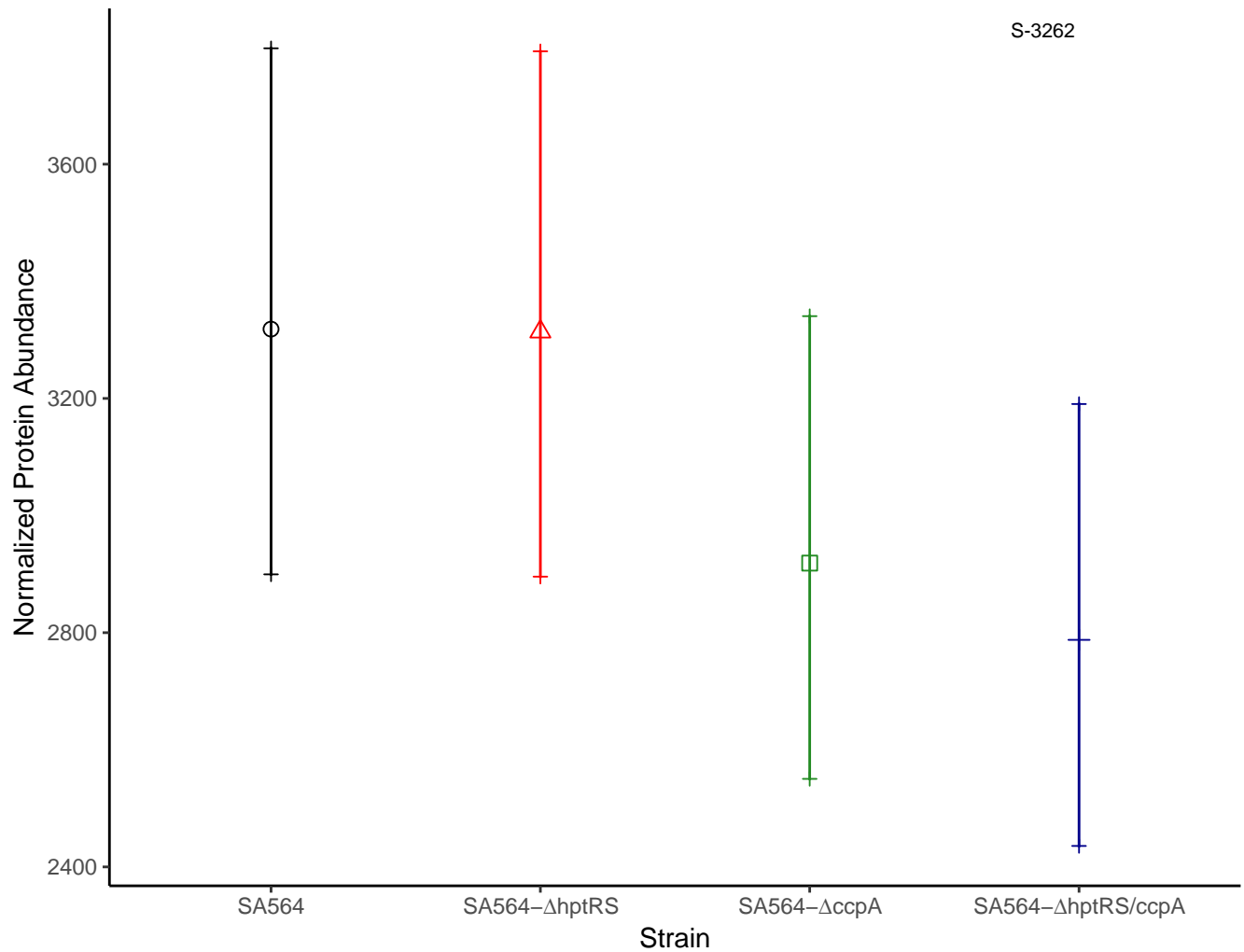
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PDXS\_STAAM



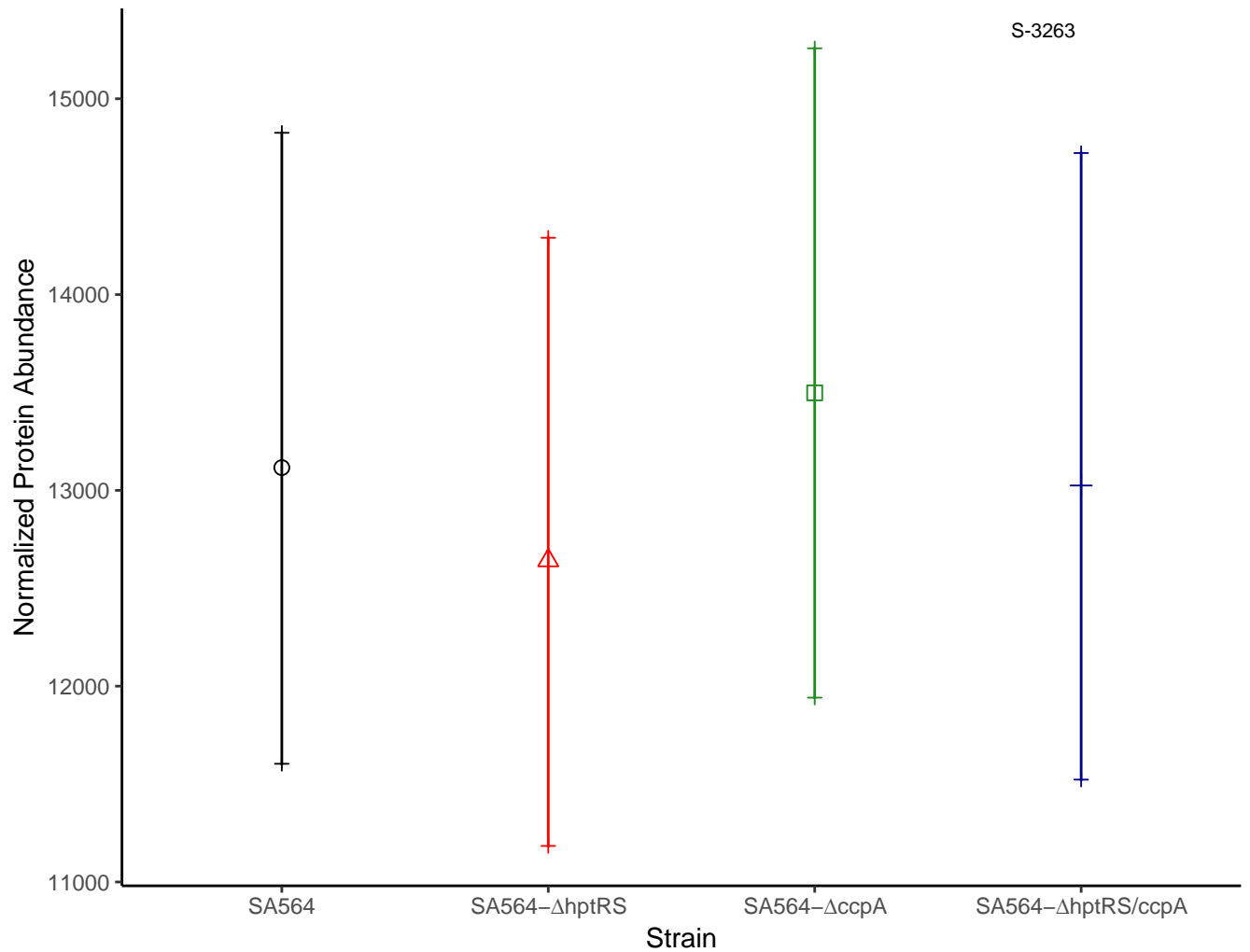
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PDXT\_STAAM



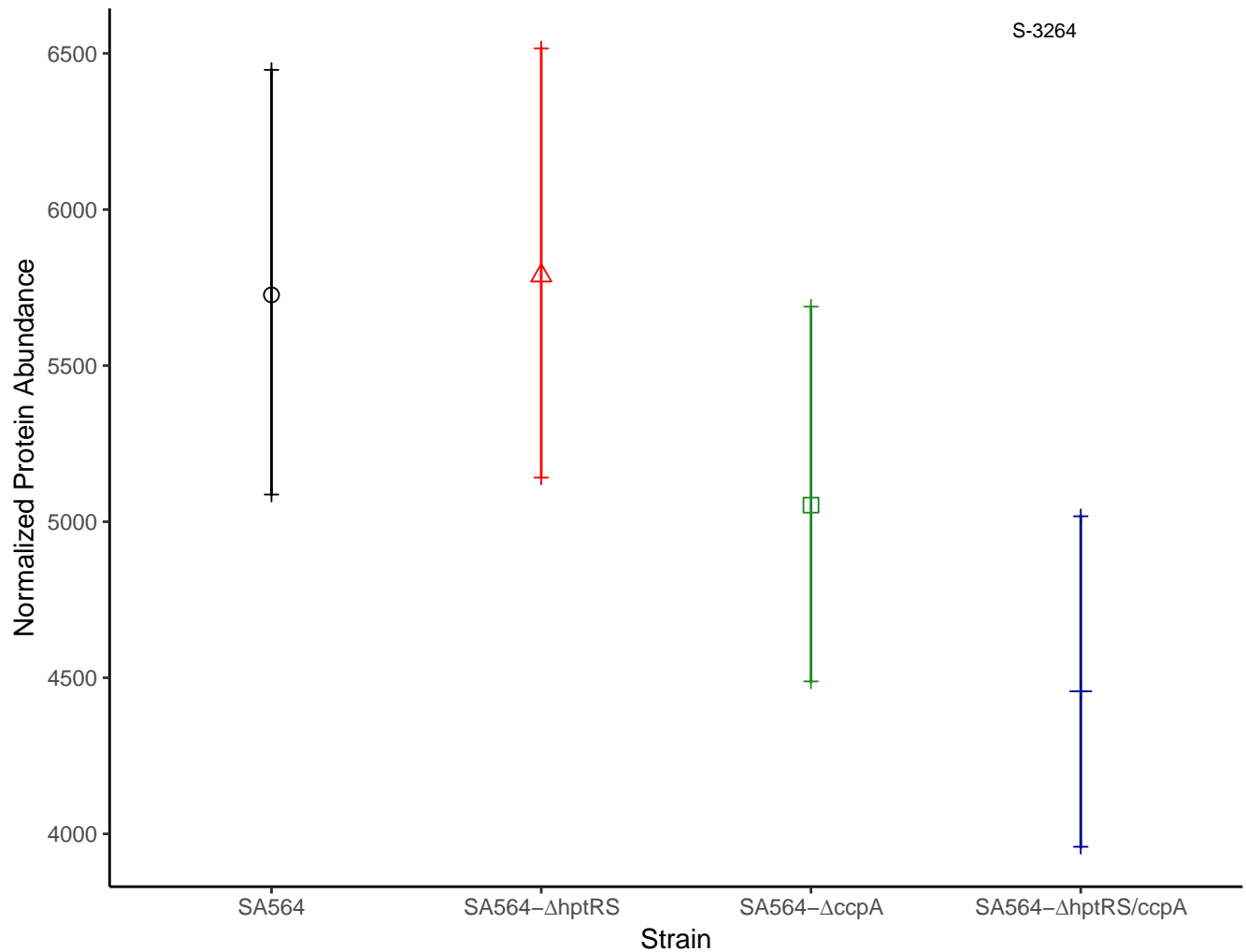
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PEPVL\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

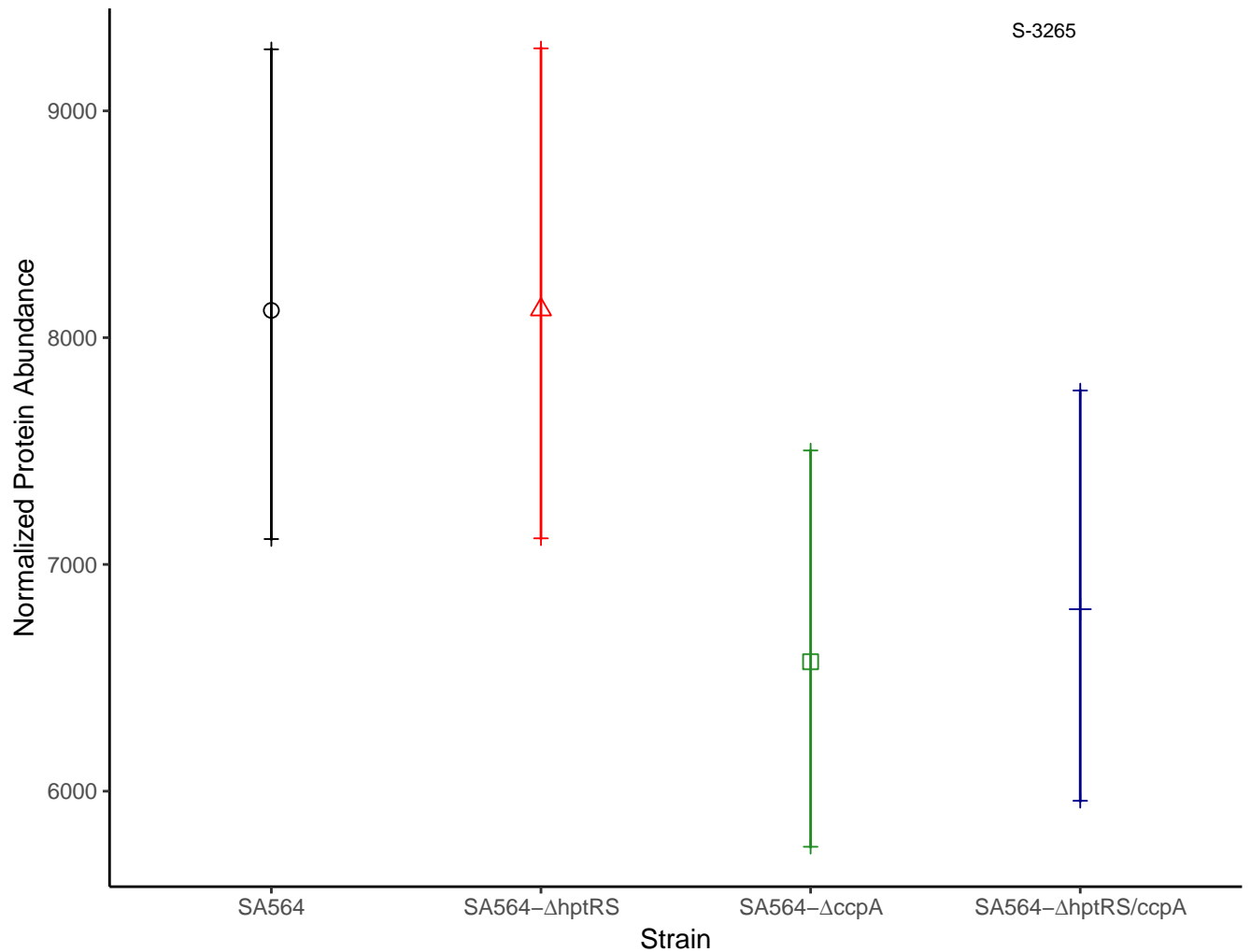
# PERR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

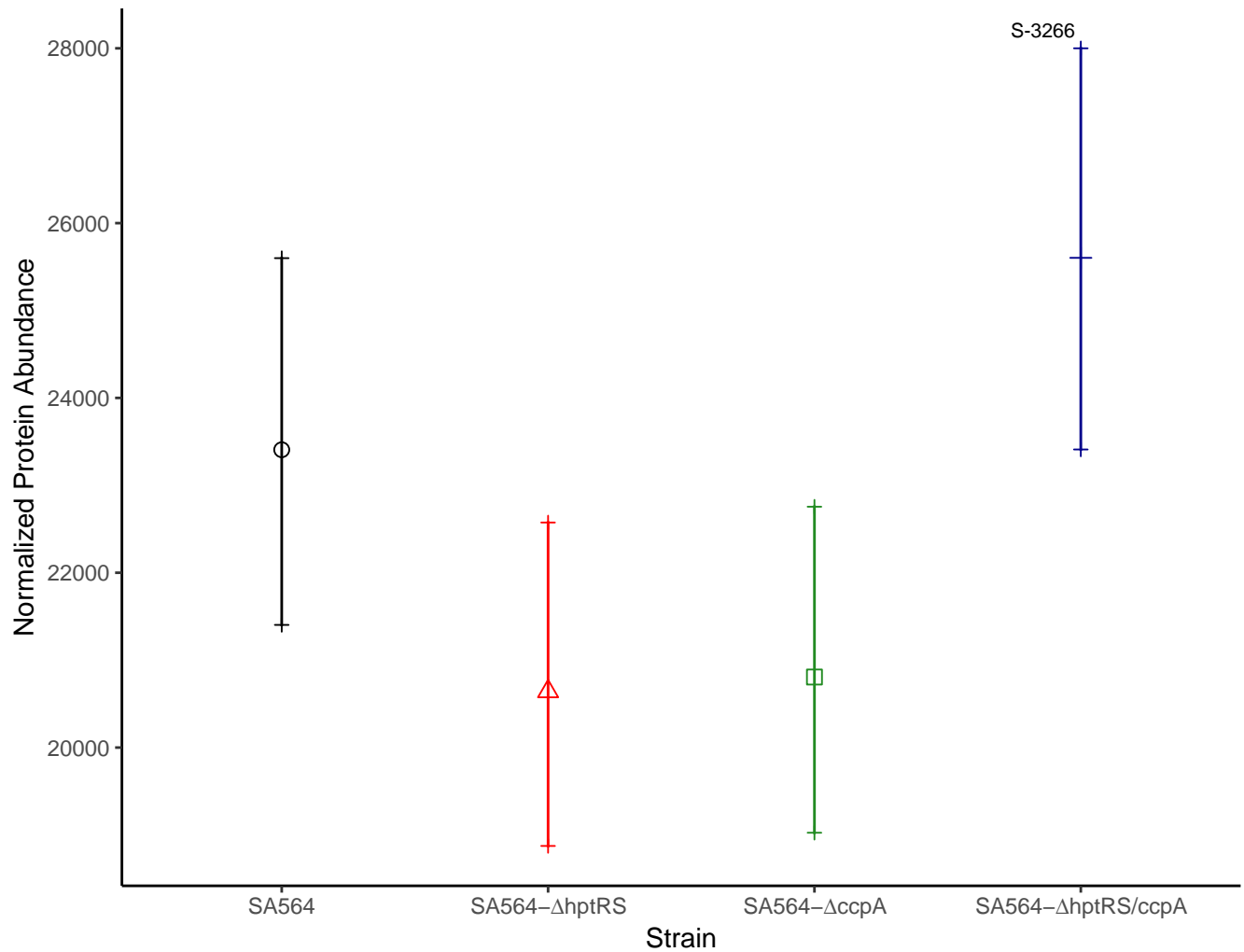


# PFKA\_STAAM



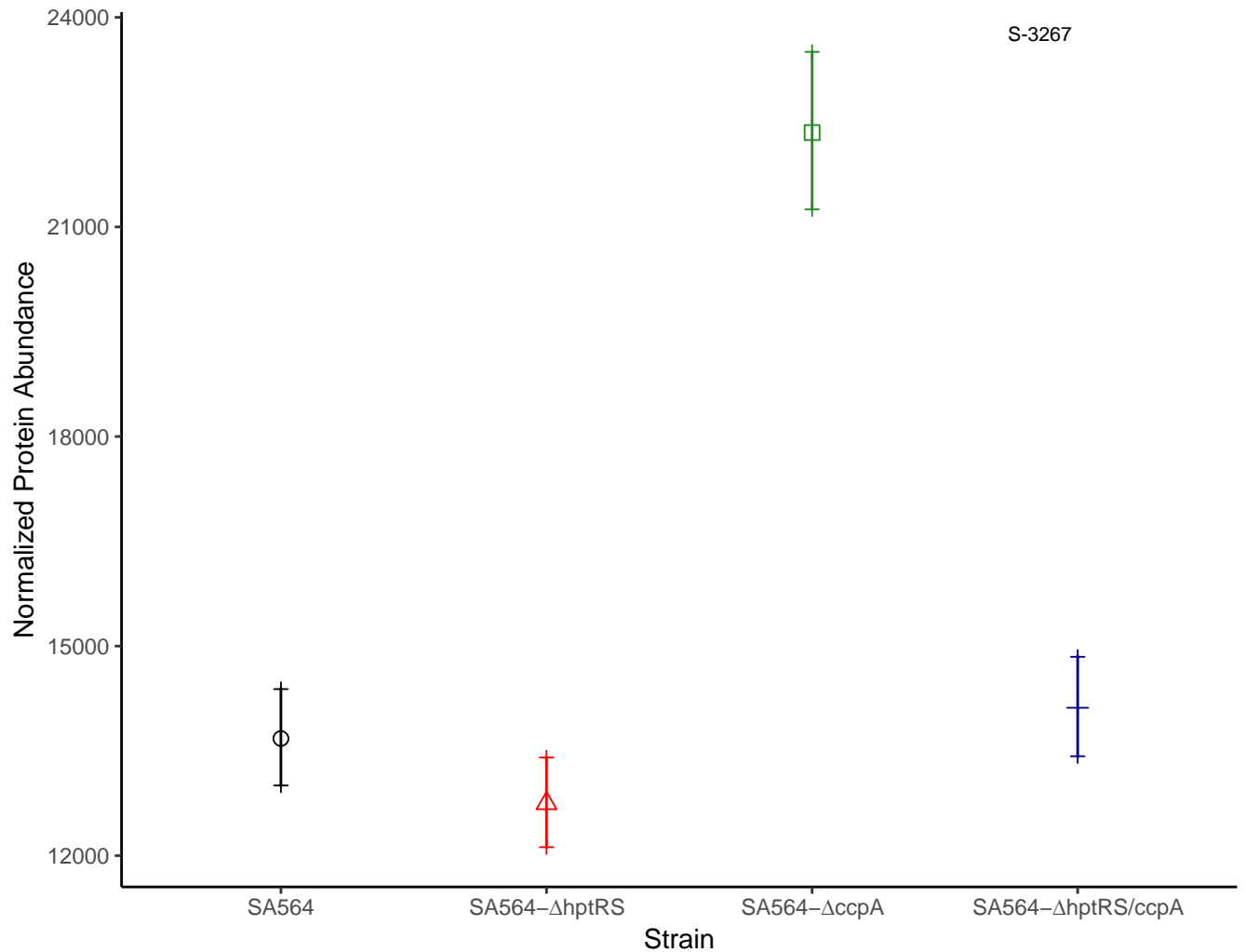
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PFLA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

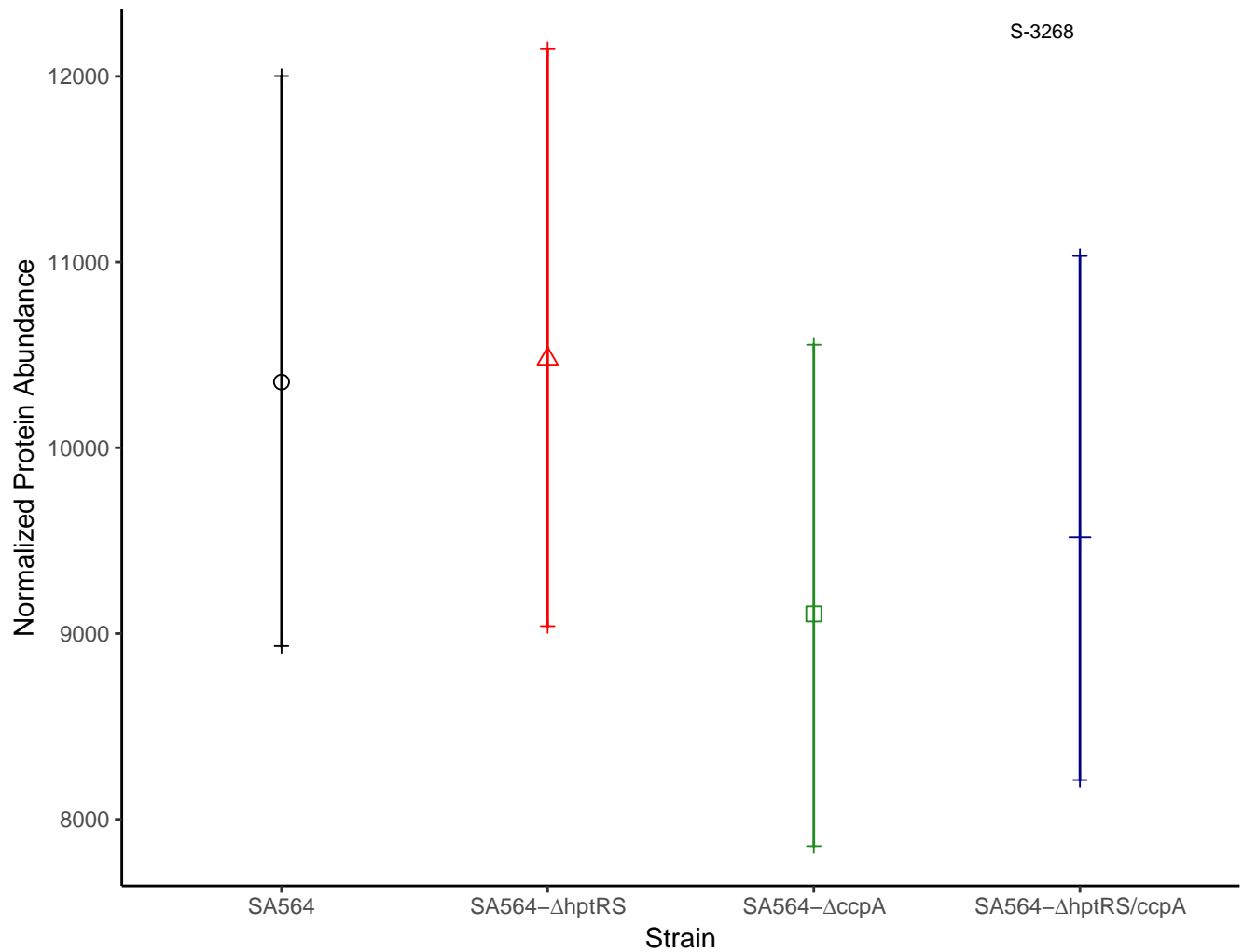
# PFLB\_STAAM



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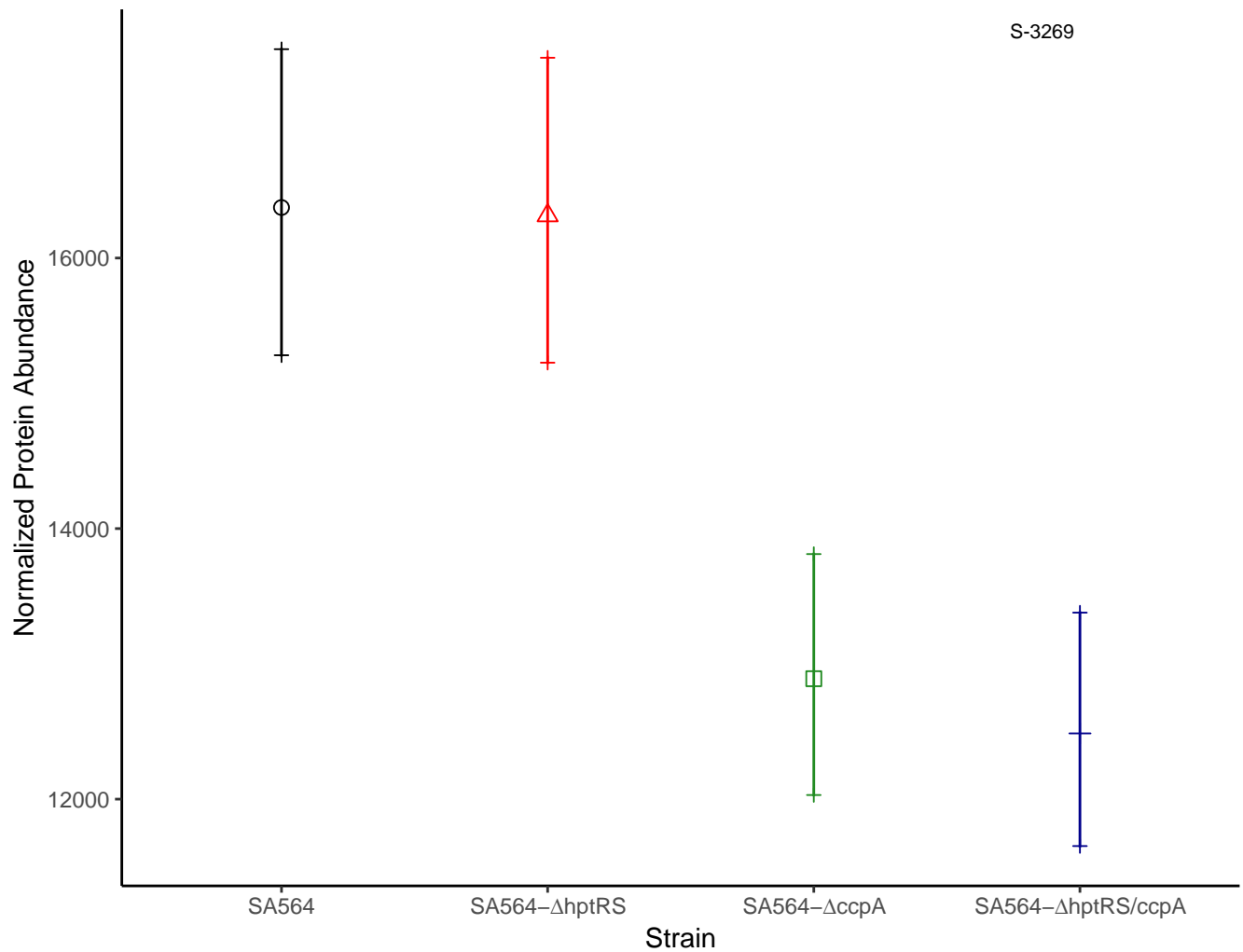
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# PGCA\_STAAM



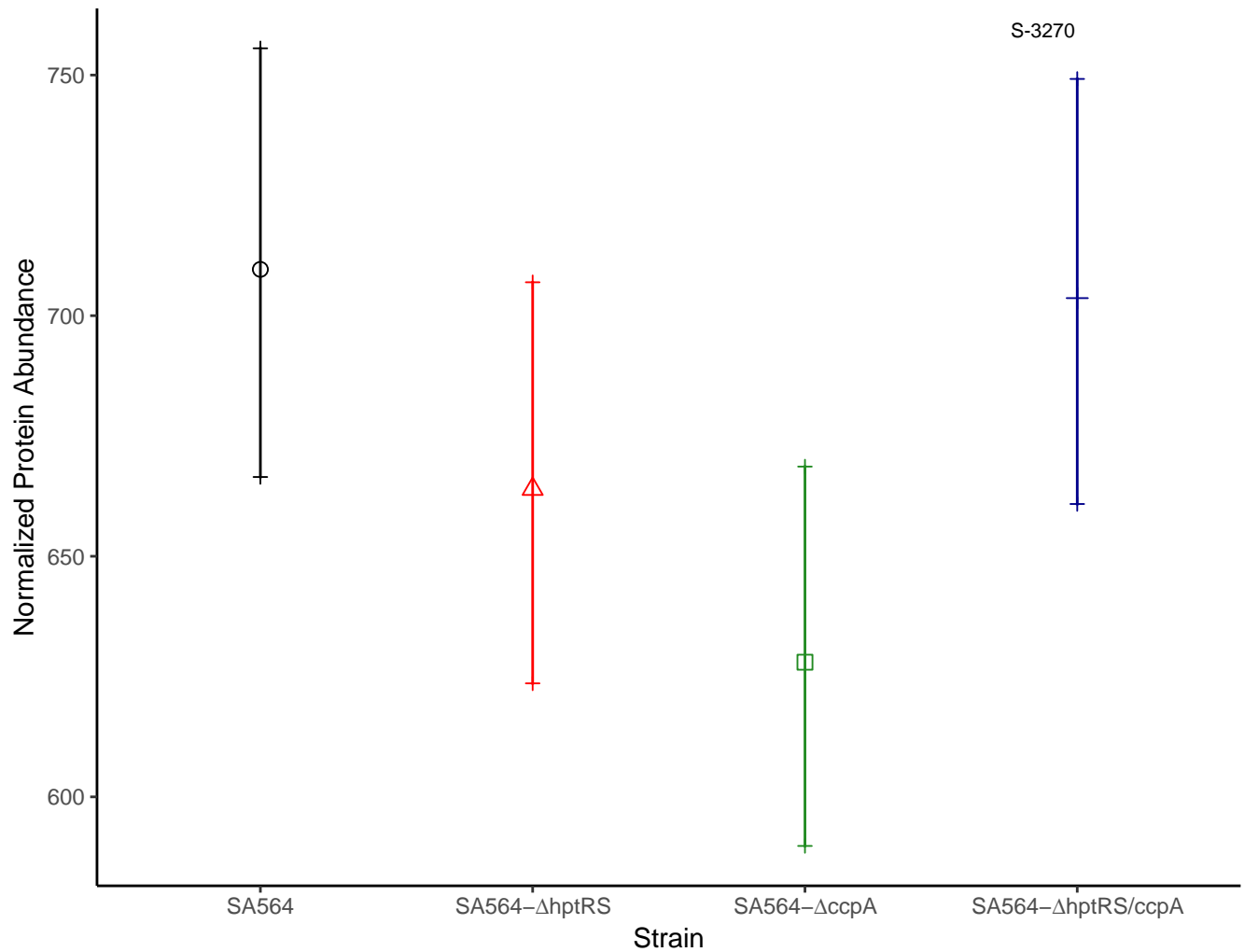
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PGK\_STAAM



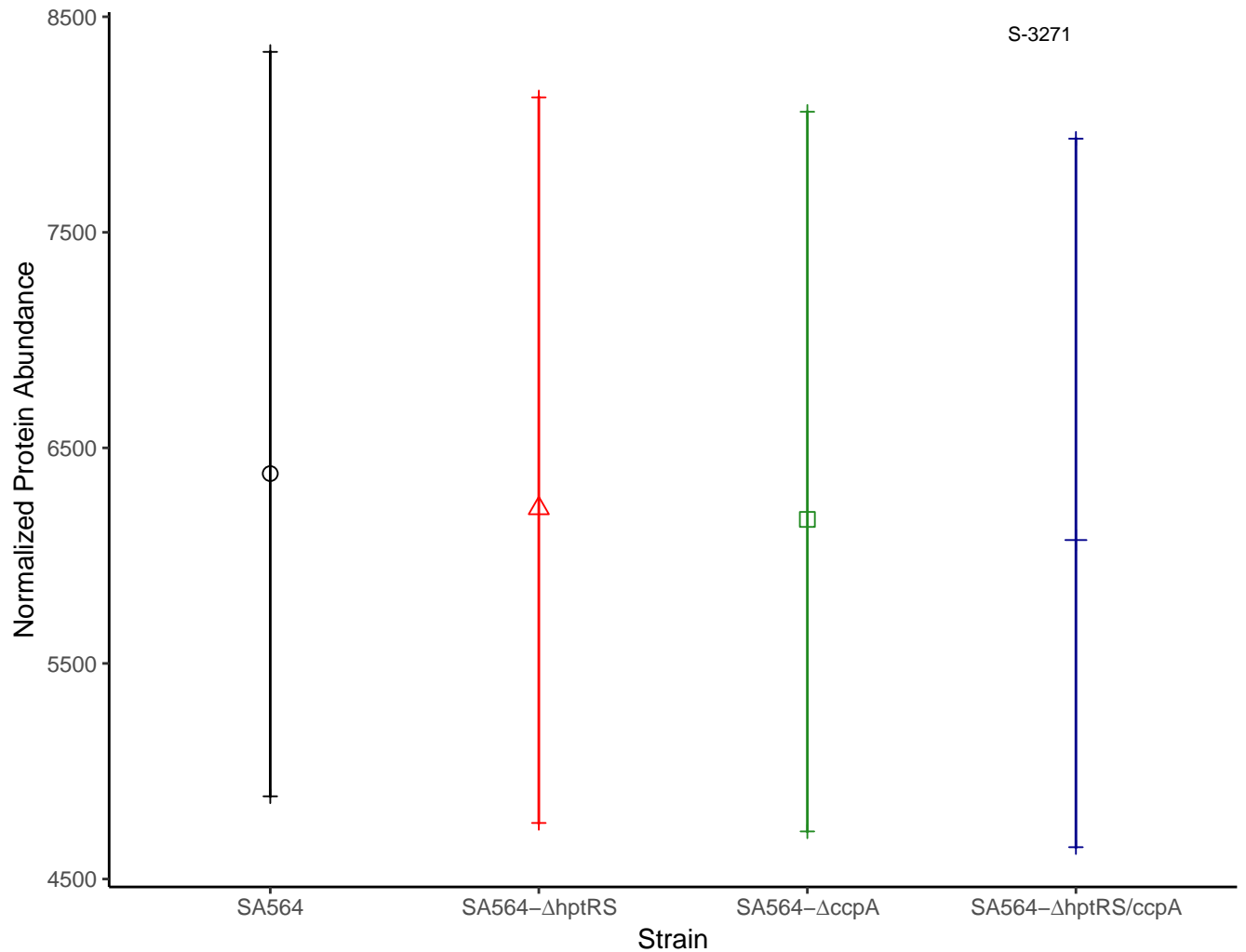
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PHNC\_STAAM



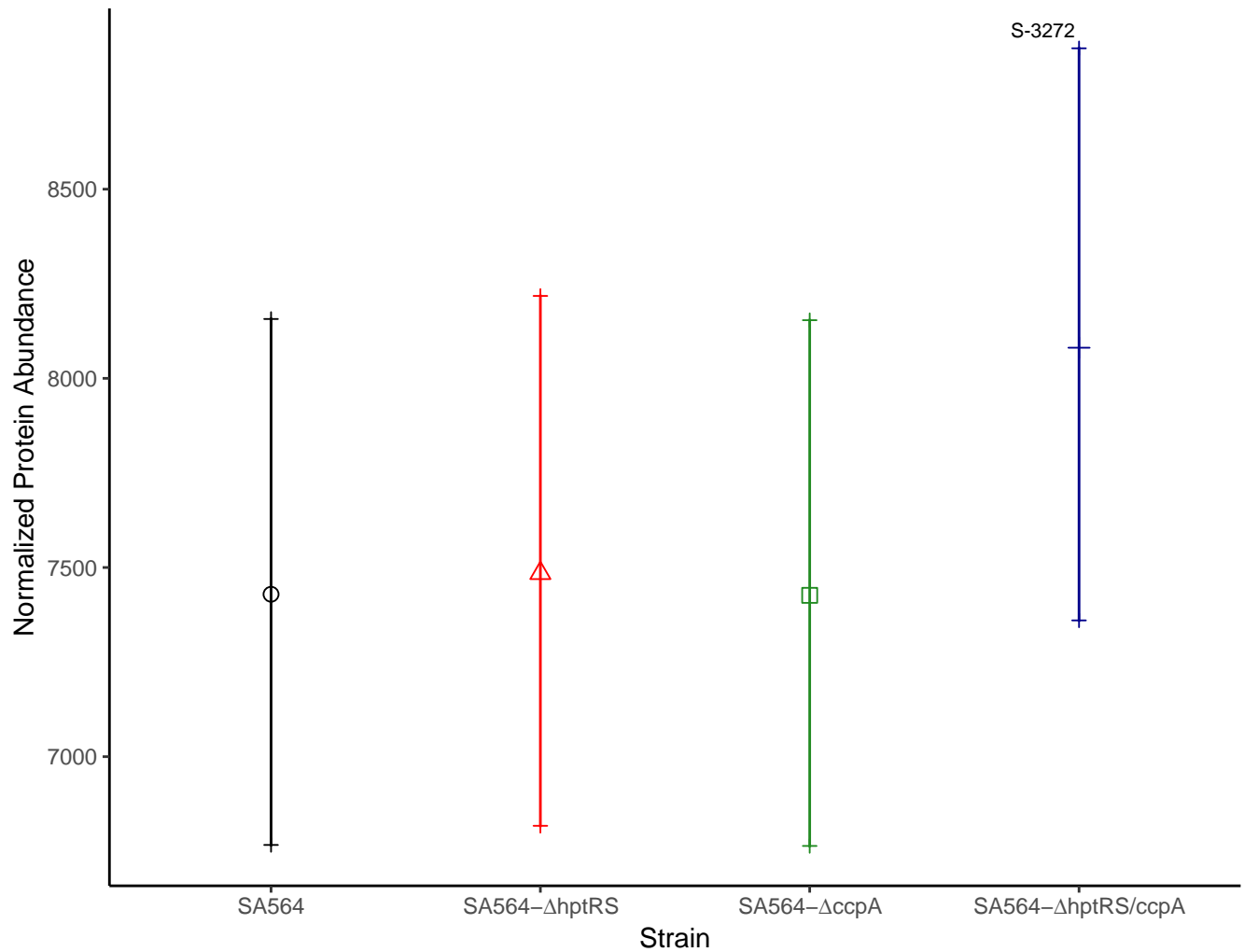
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# PLSX\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

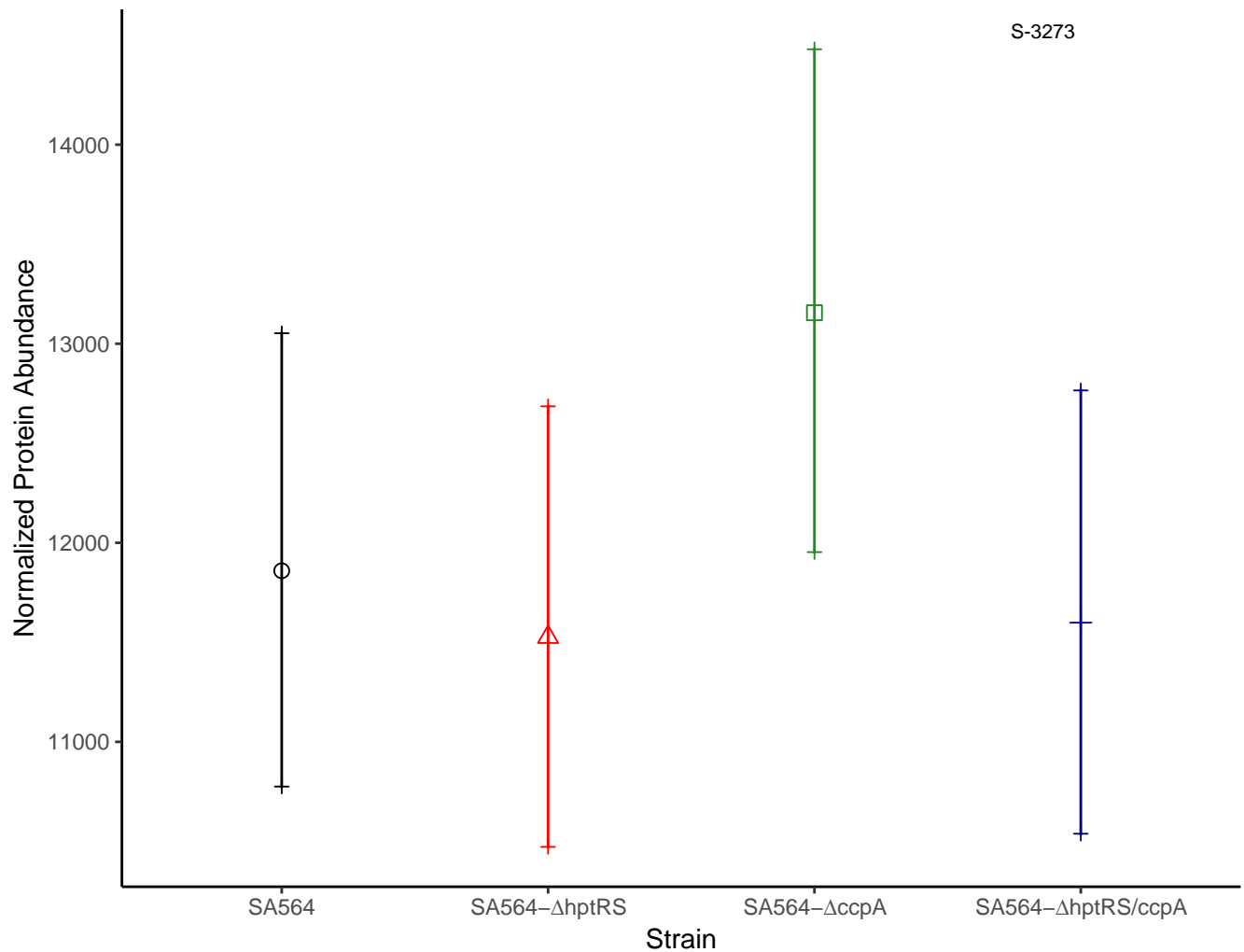
# PNP\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

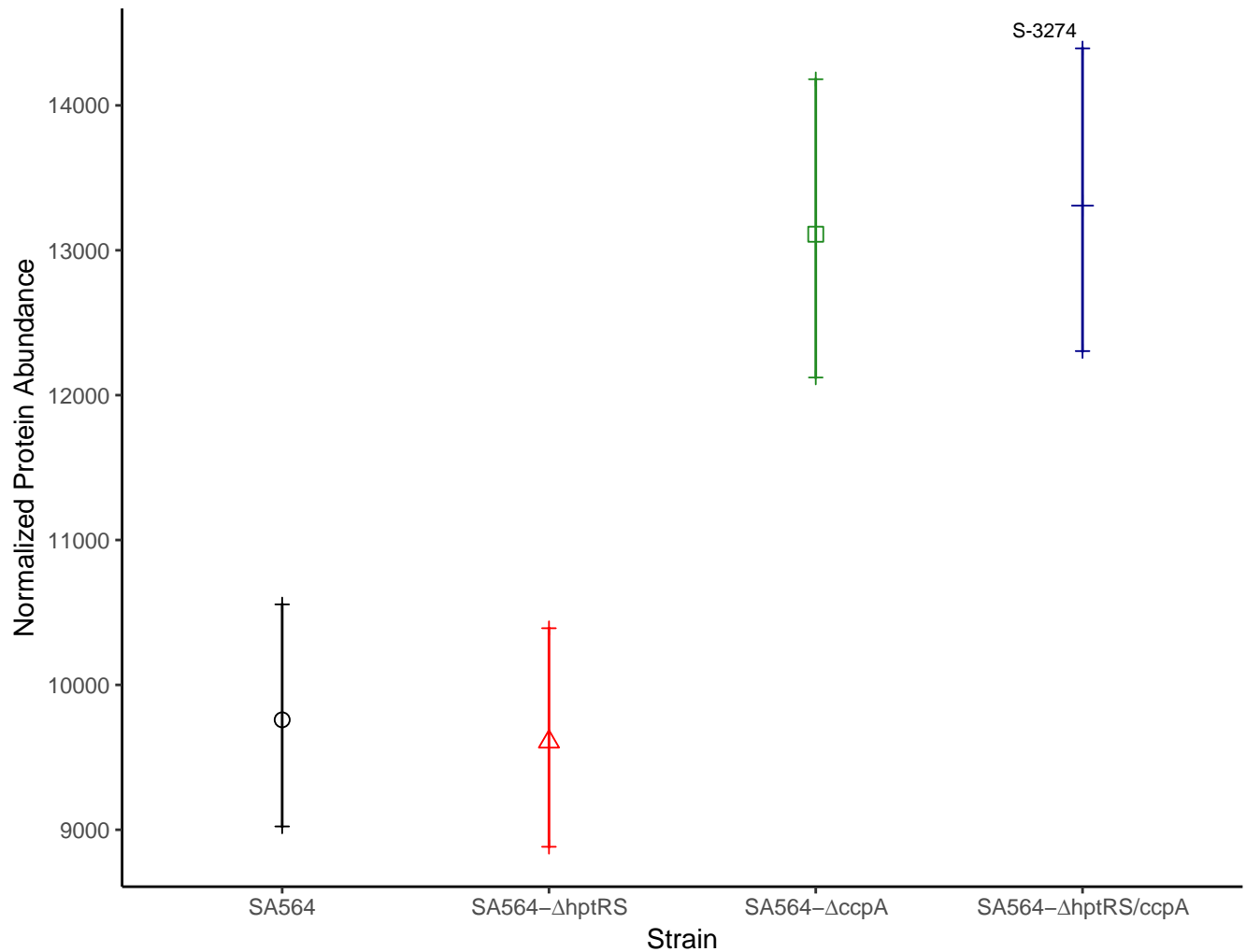


# PPAC\_STAAM



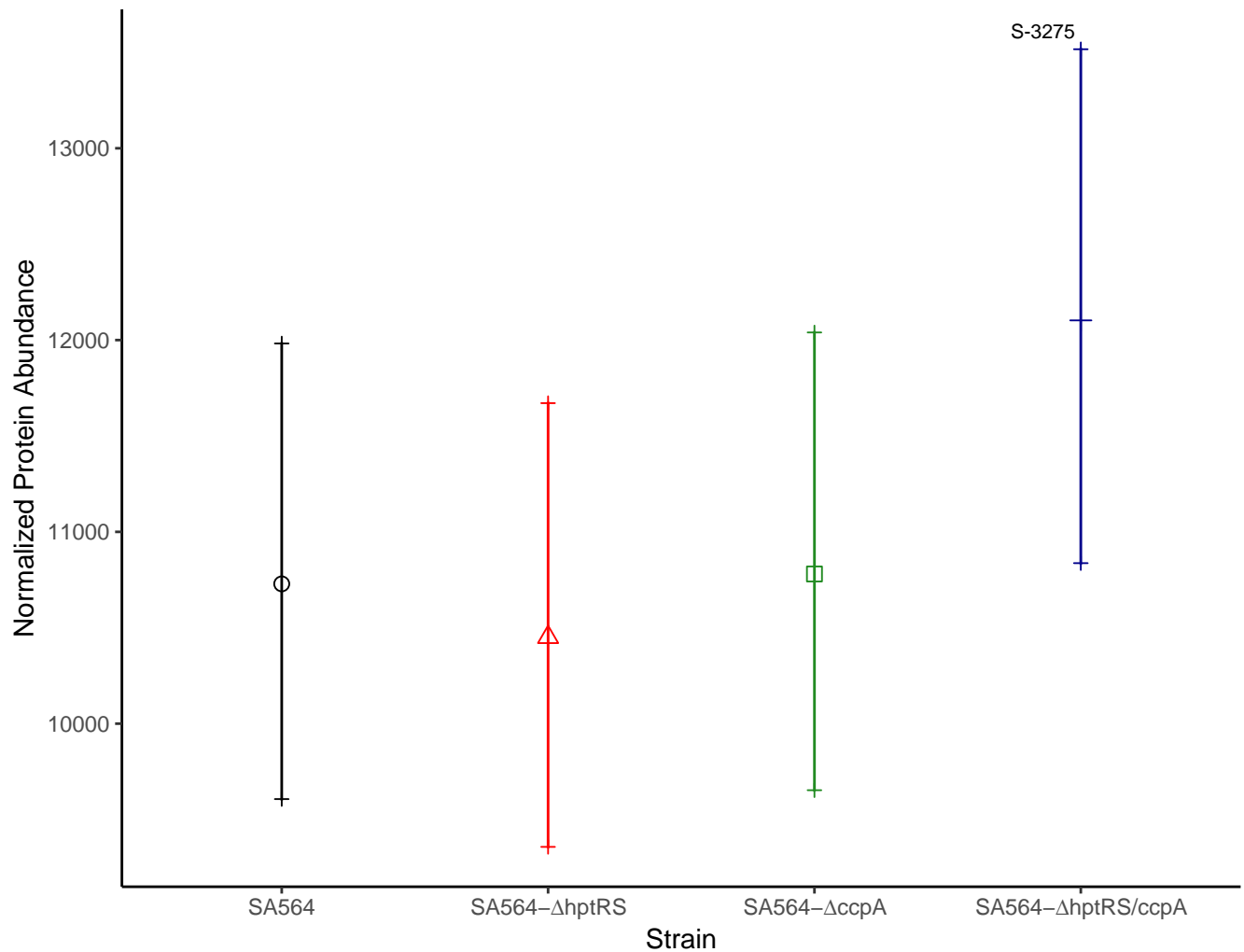
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PPAT\_STAAM



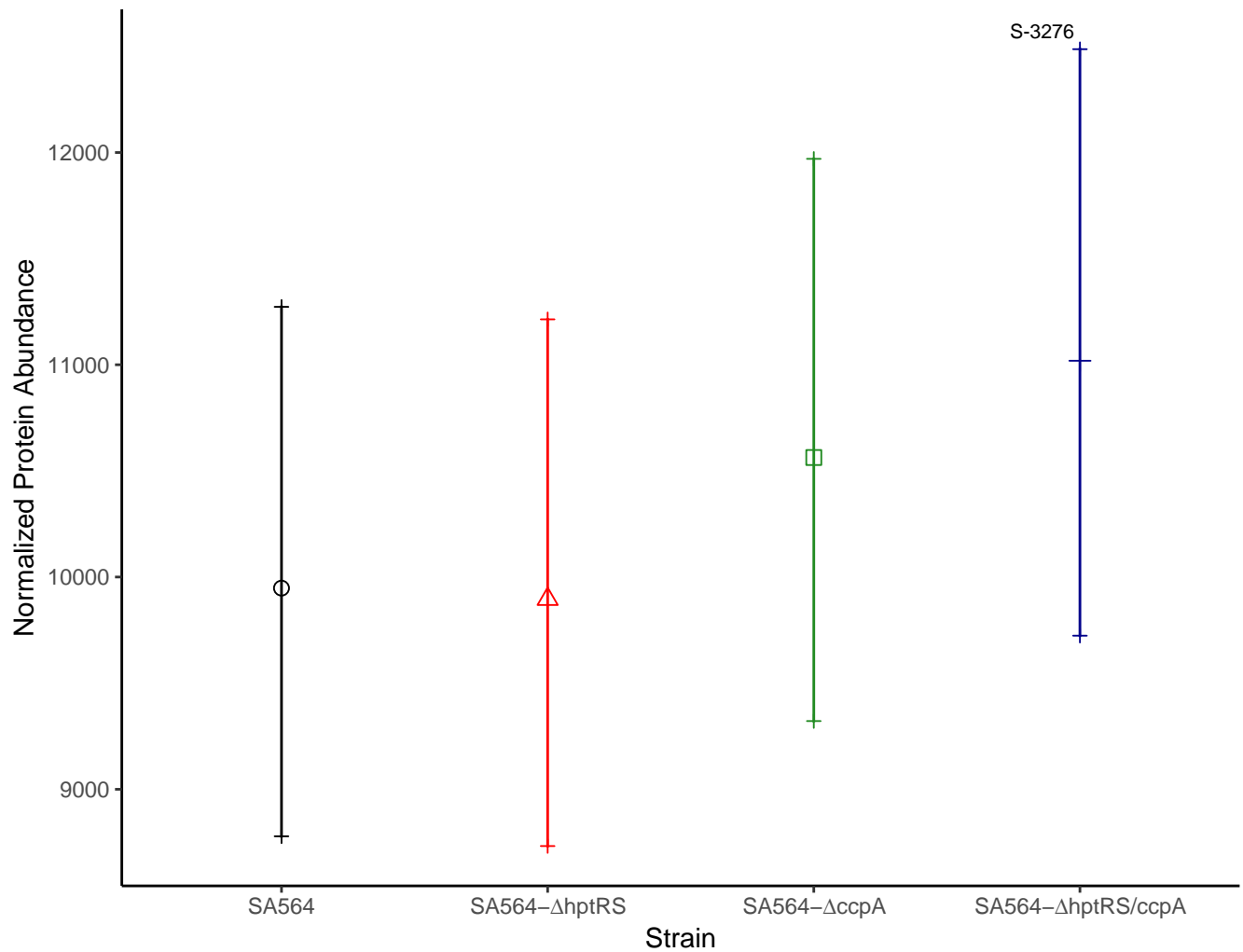
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PPI1\_STAAM



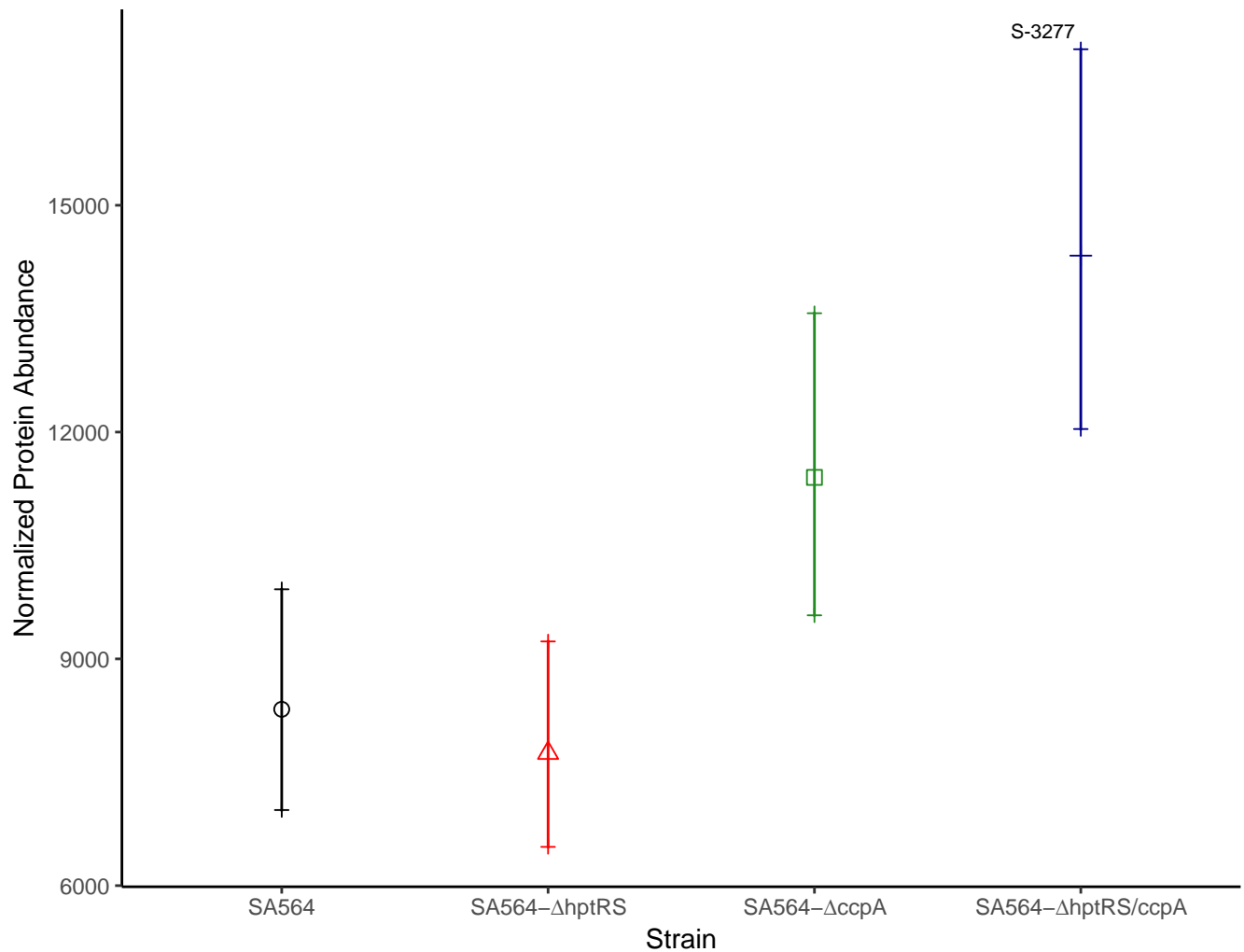
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PRSA\_STAAM



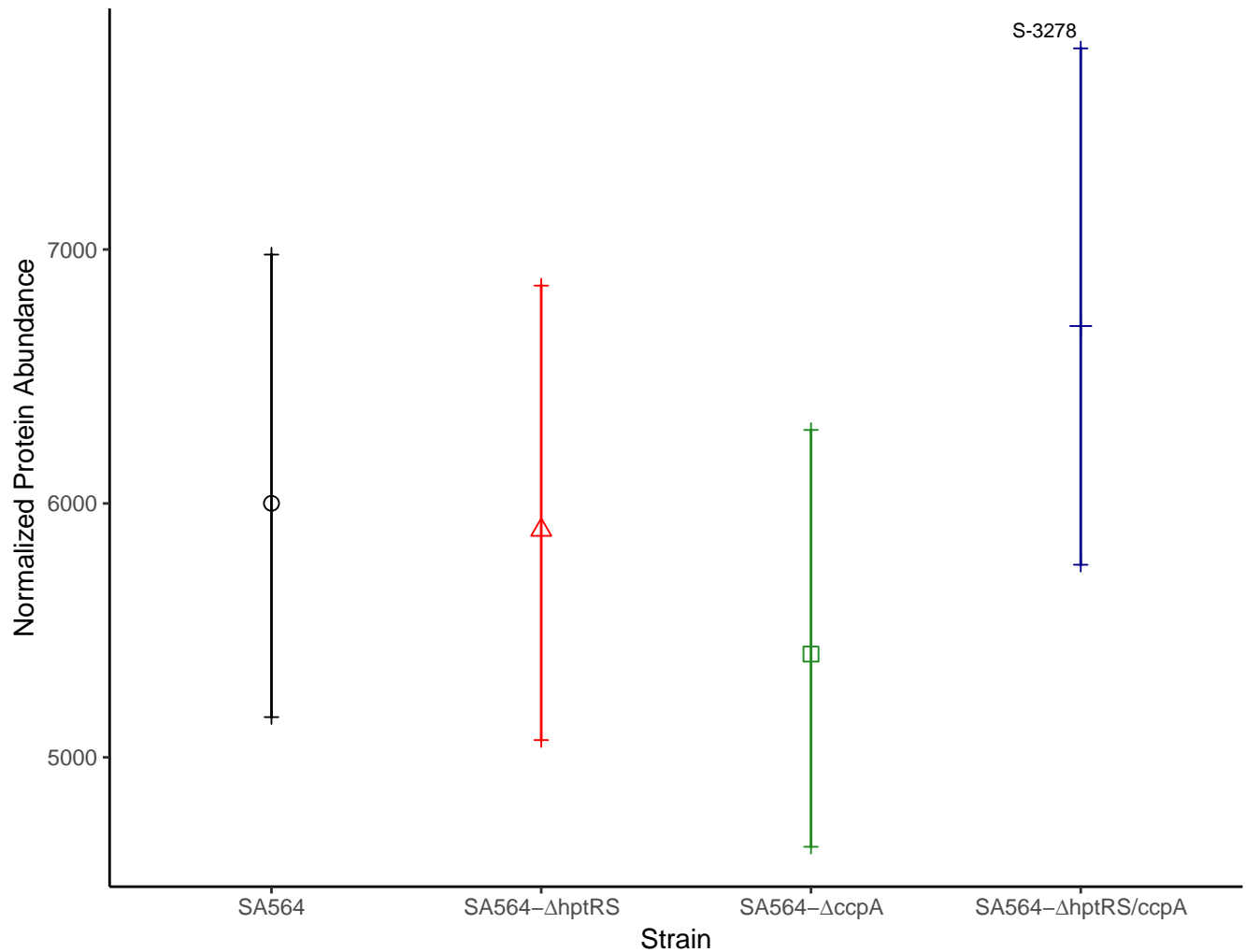
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PSTB\_STAAM



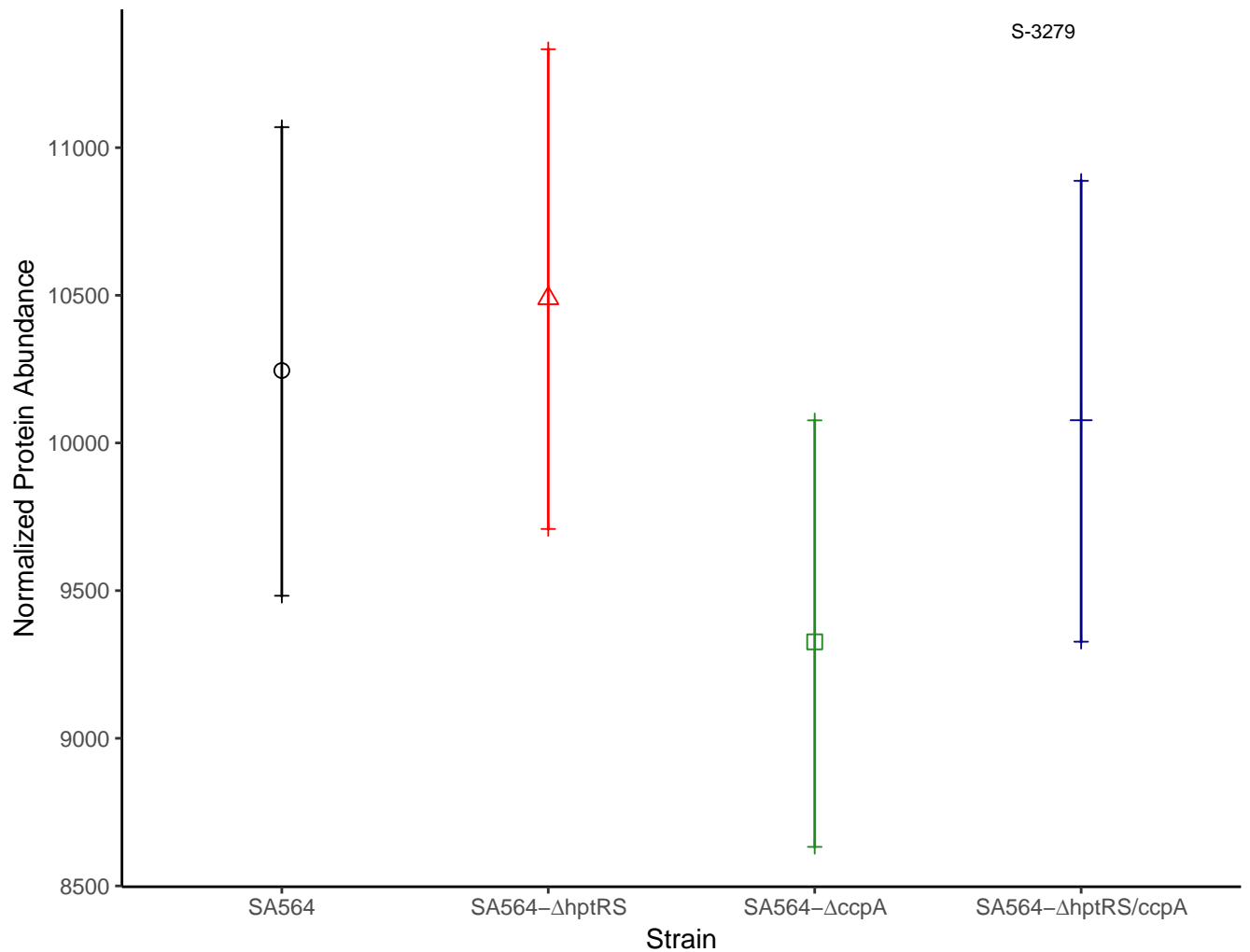
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PSTS\_STAAM



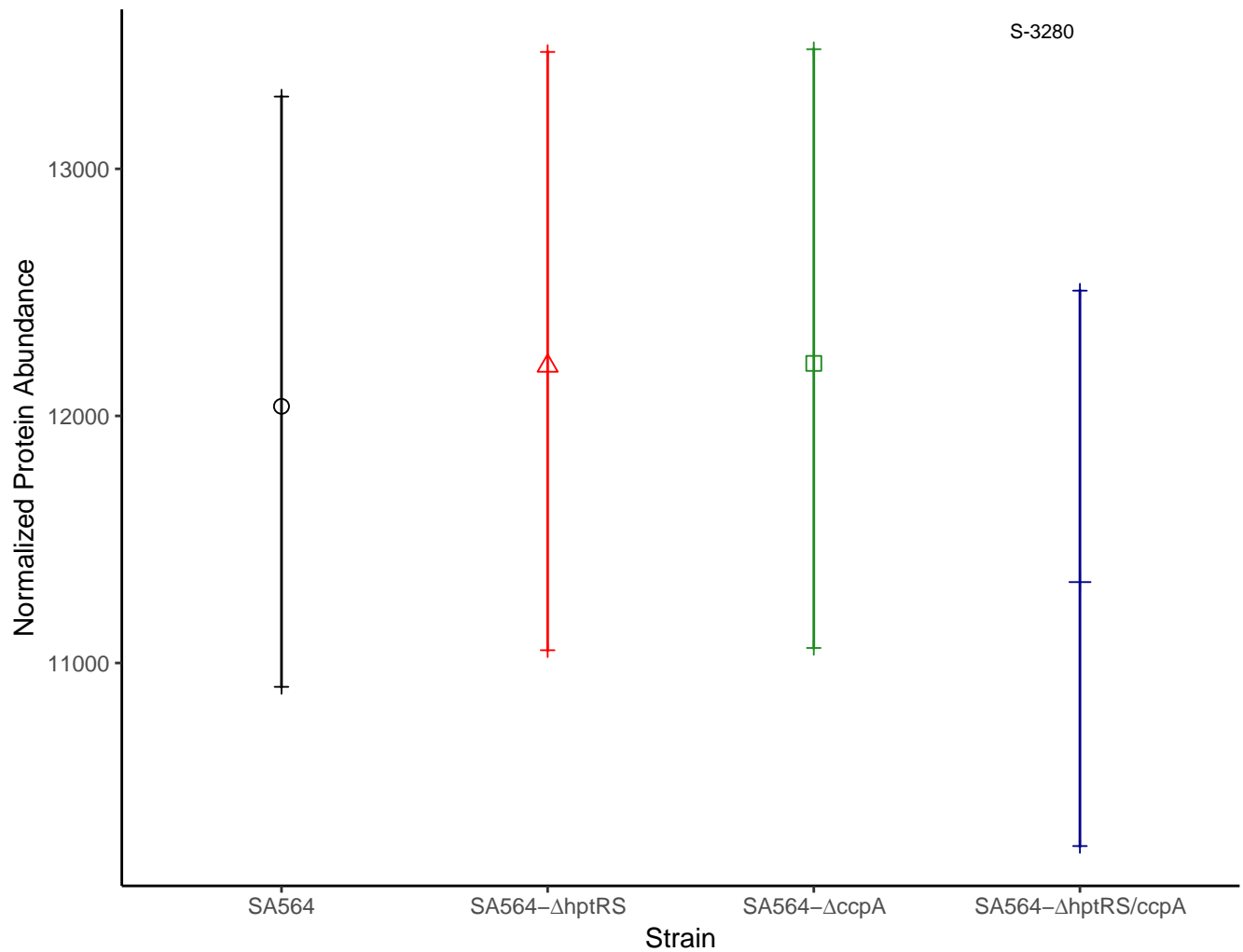
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PT1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

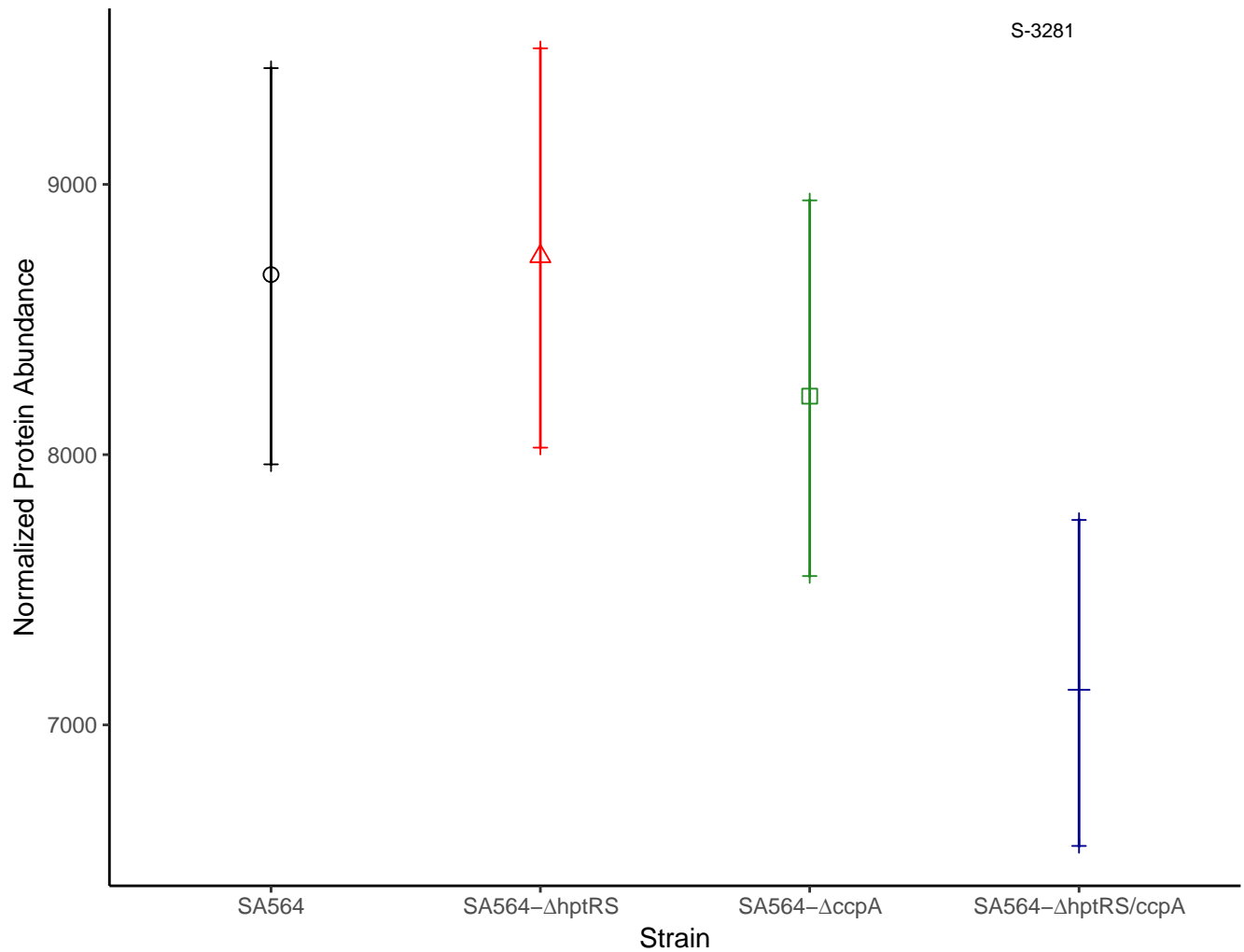
# PTAS\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

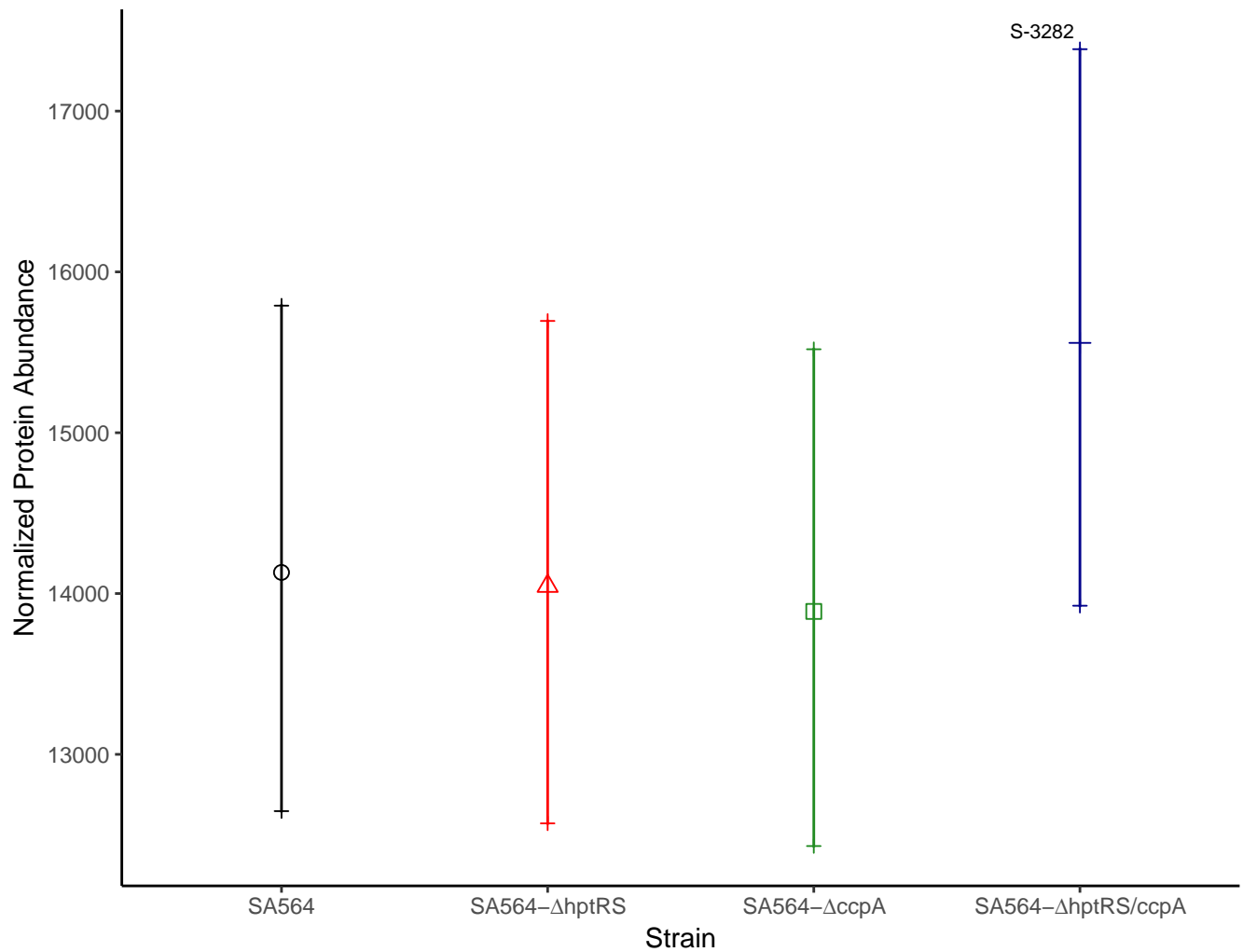


# PTG3C\_STAAM



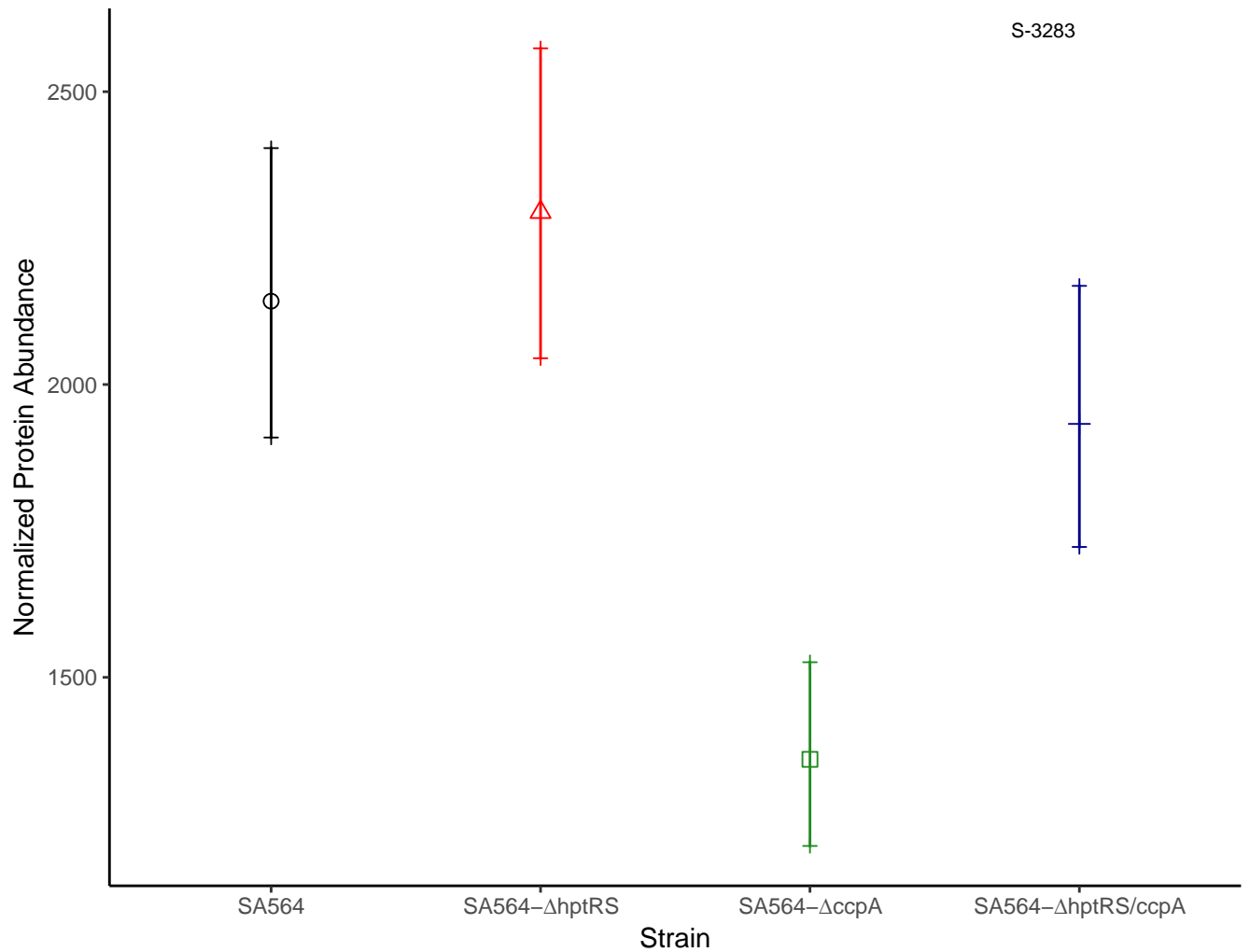
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# PTGA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

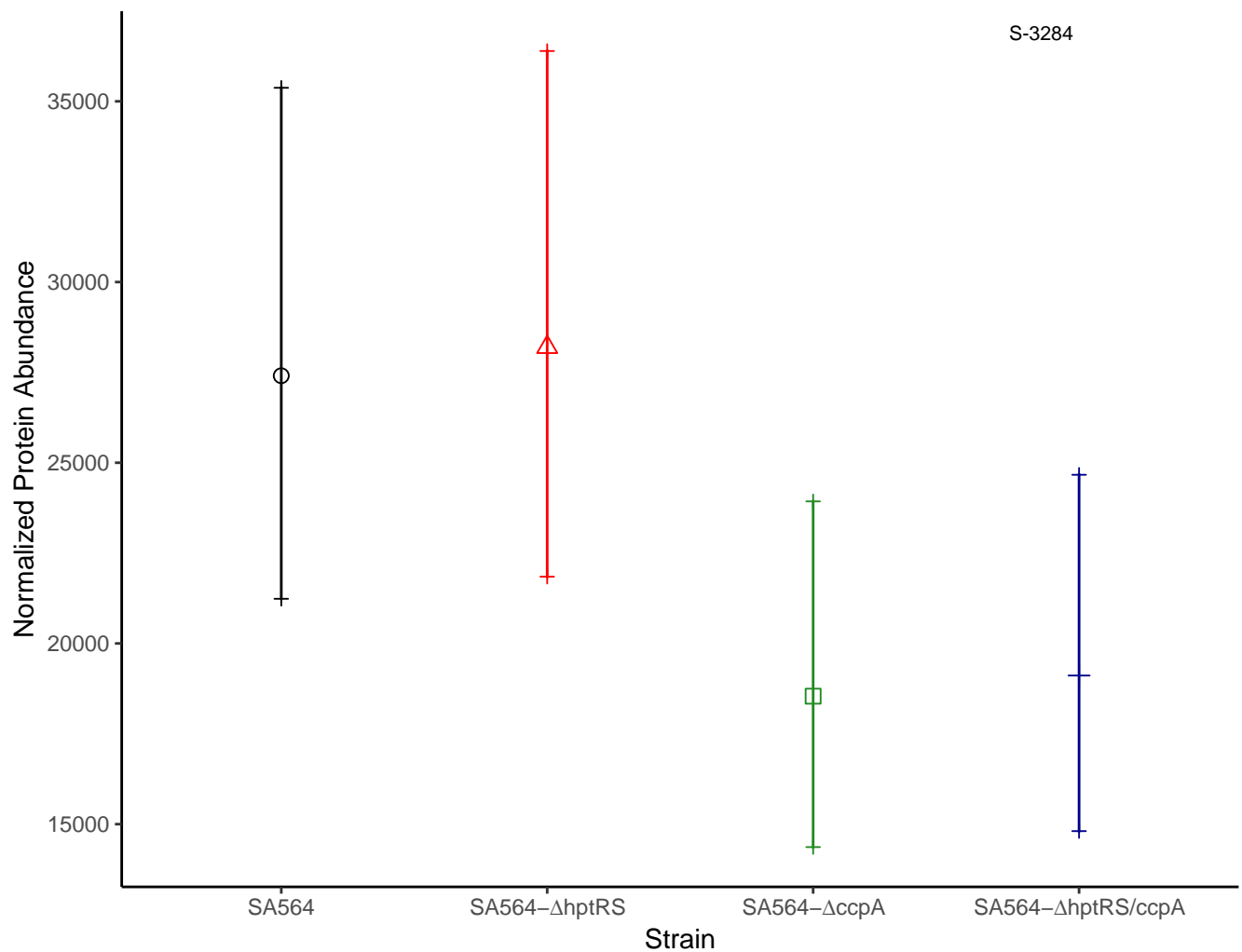
# PTH\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

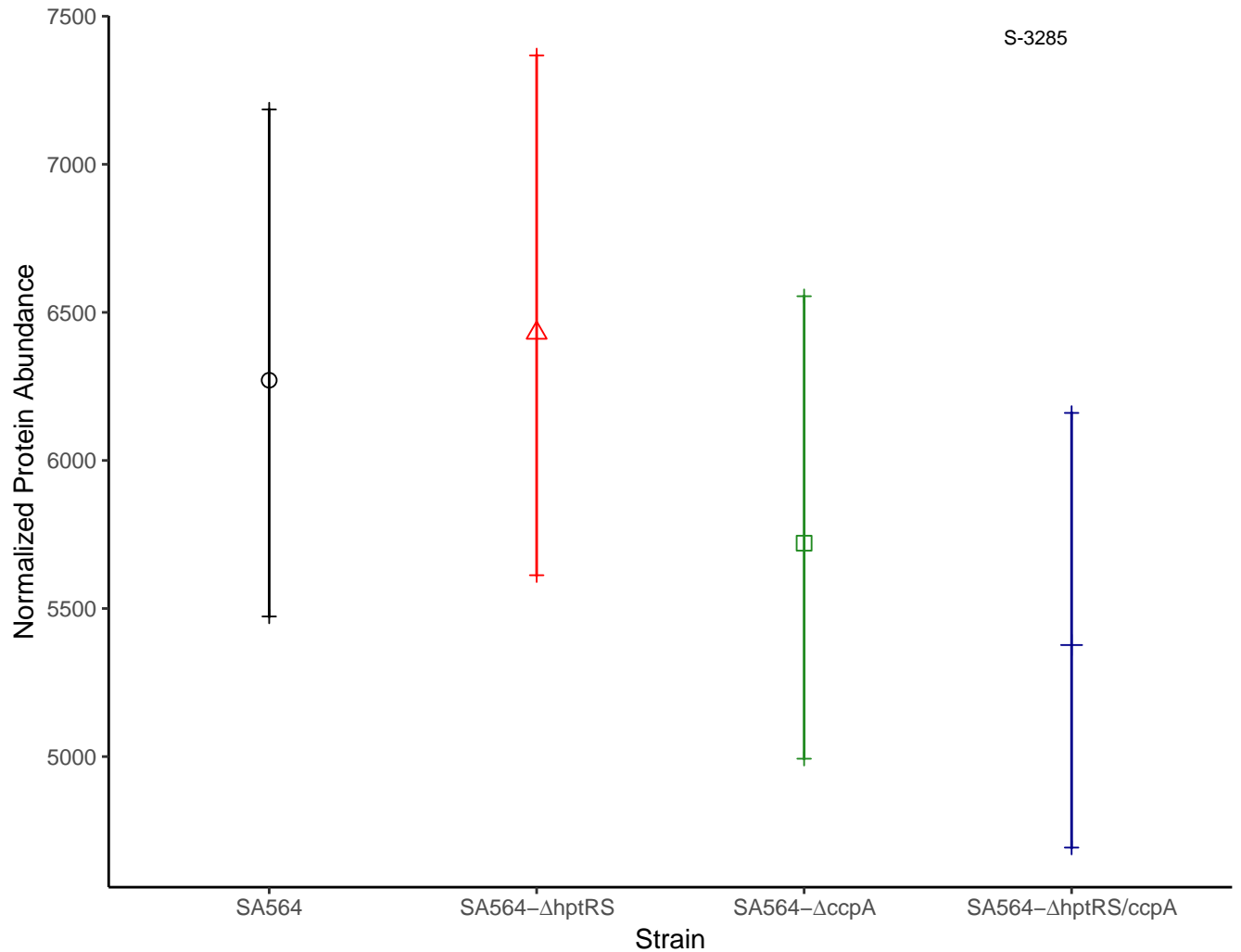
# PTHP\_STAAM

S-3284



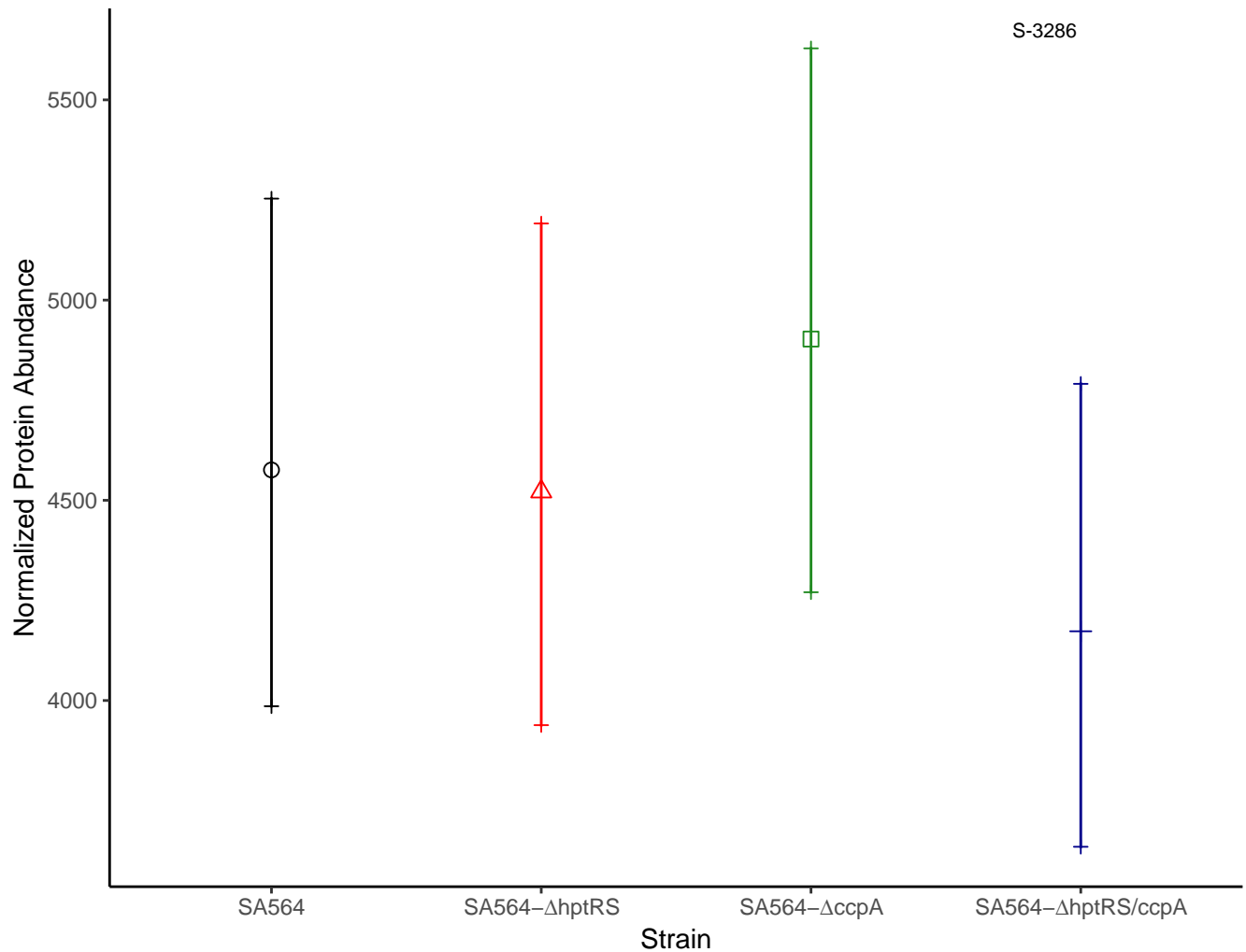
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PTMA\_STAAM



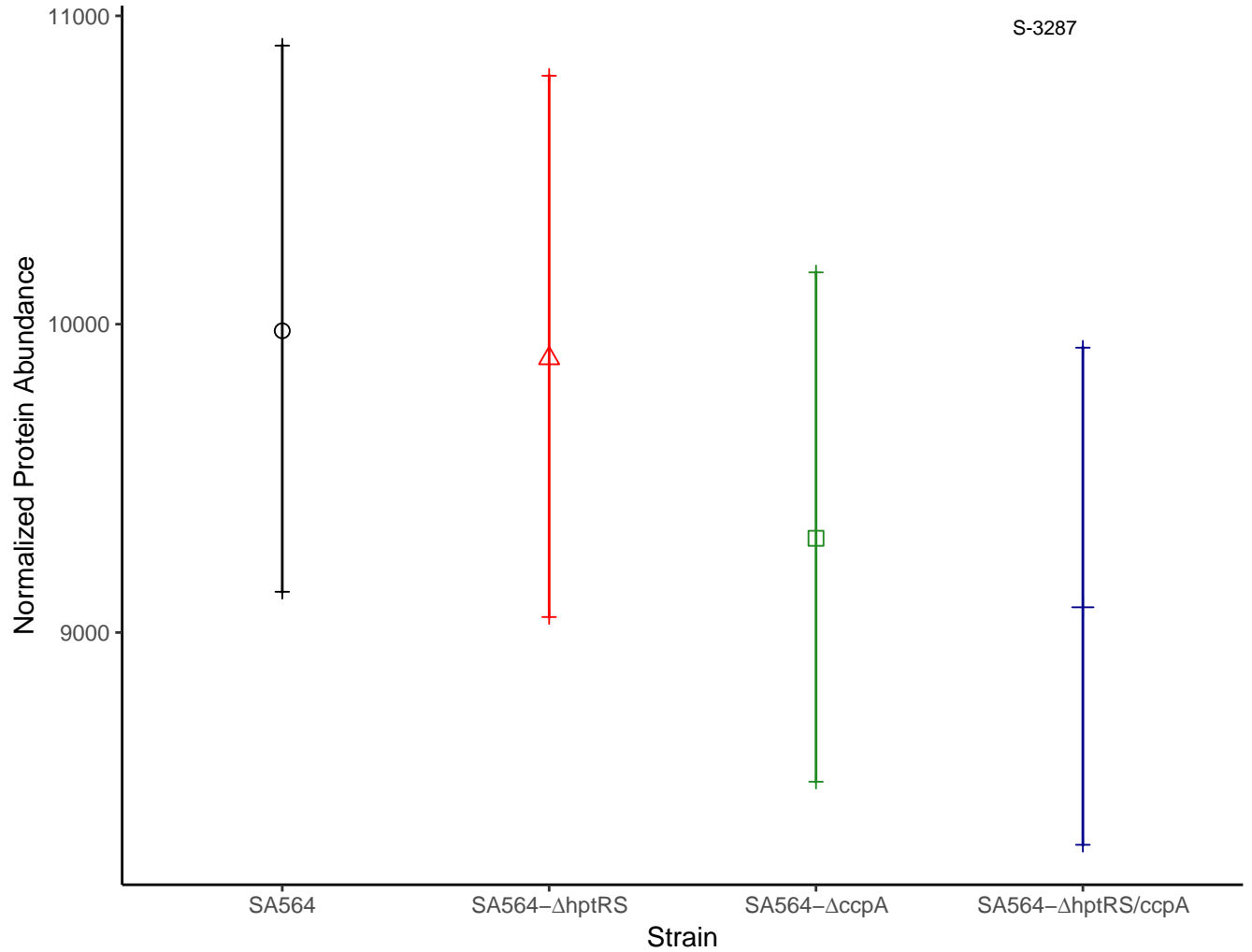
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PUR1\_STAAM



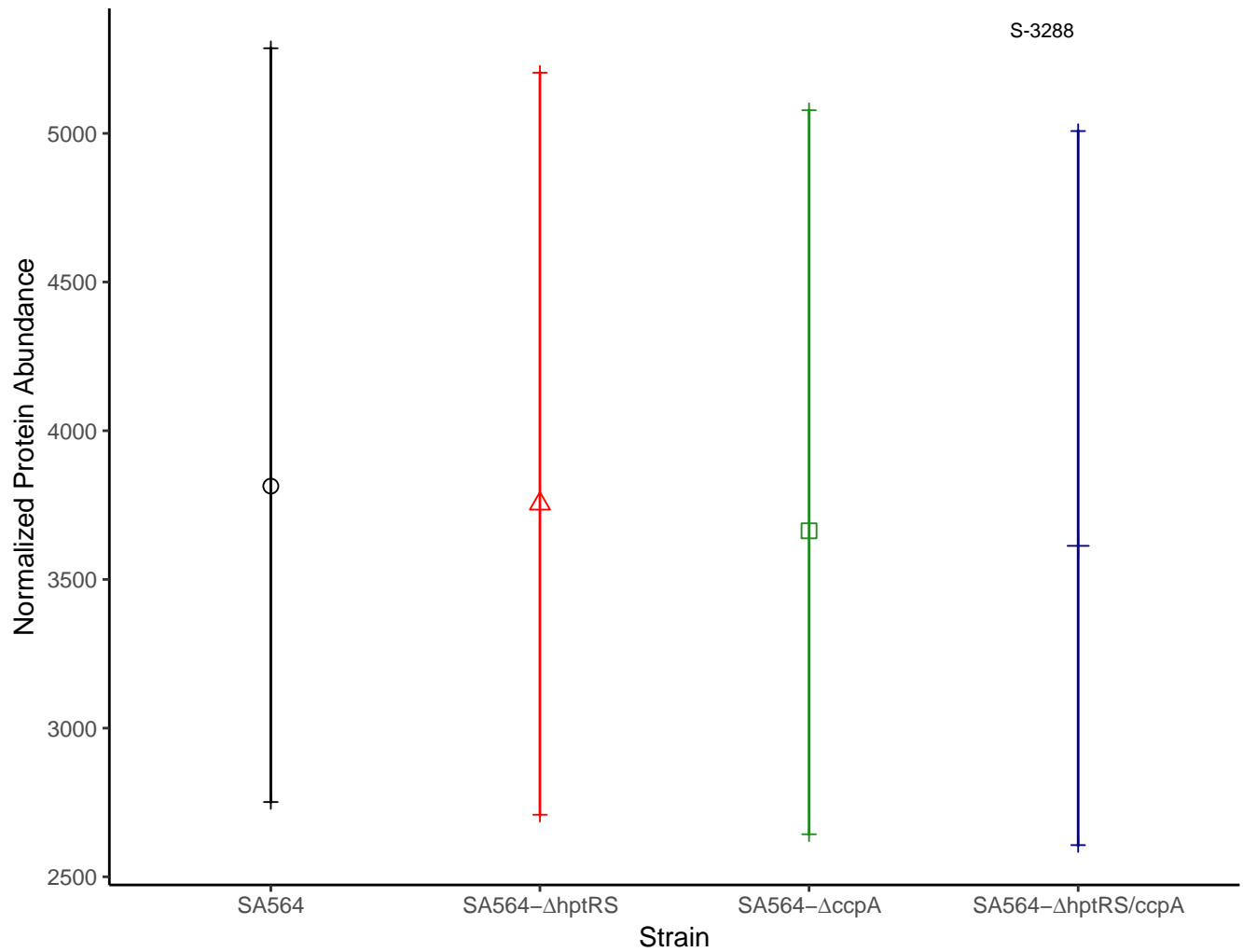
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR2\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

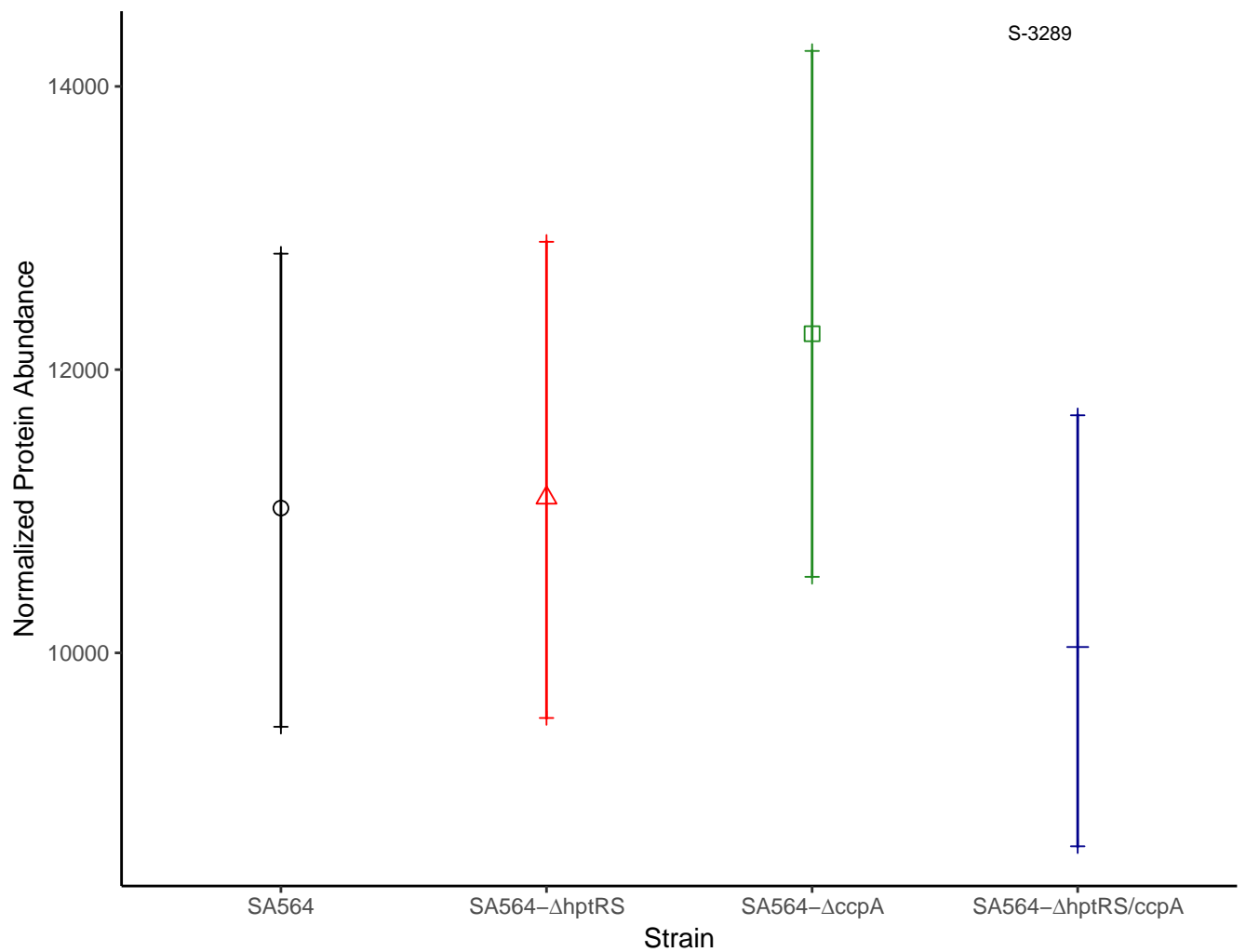
# PUR3\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

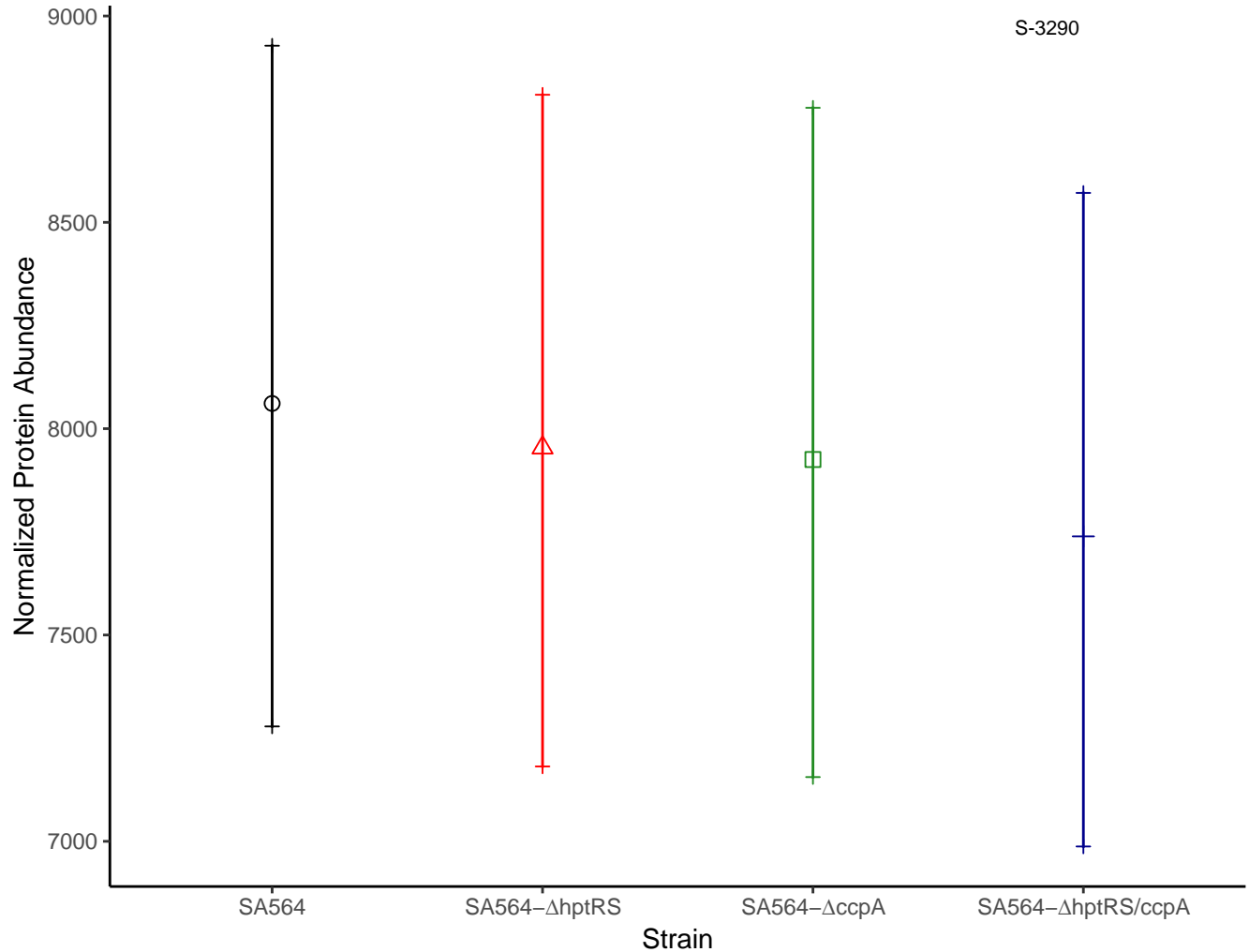


# PUR5\_STAAM



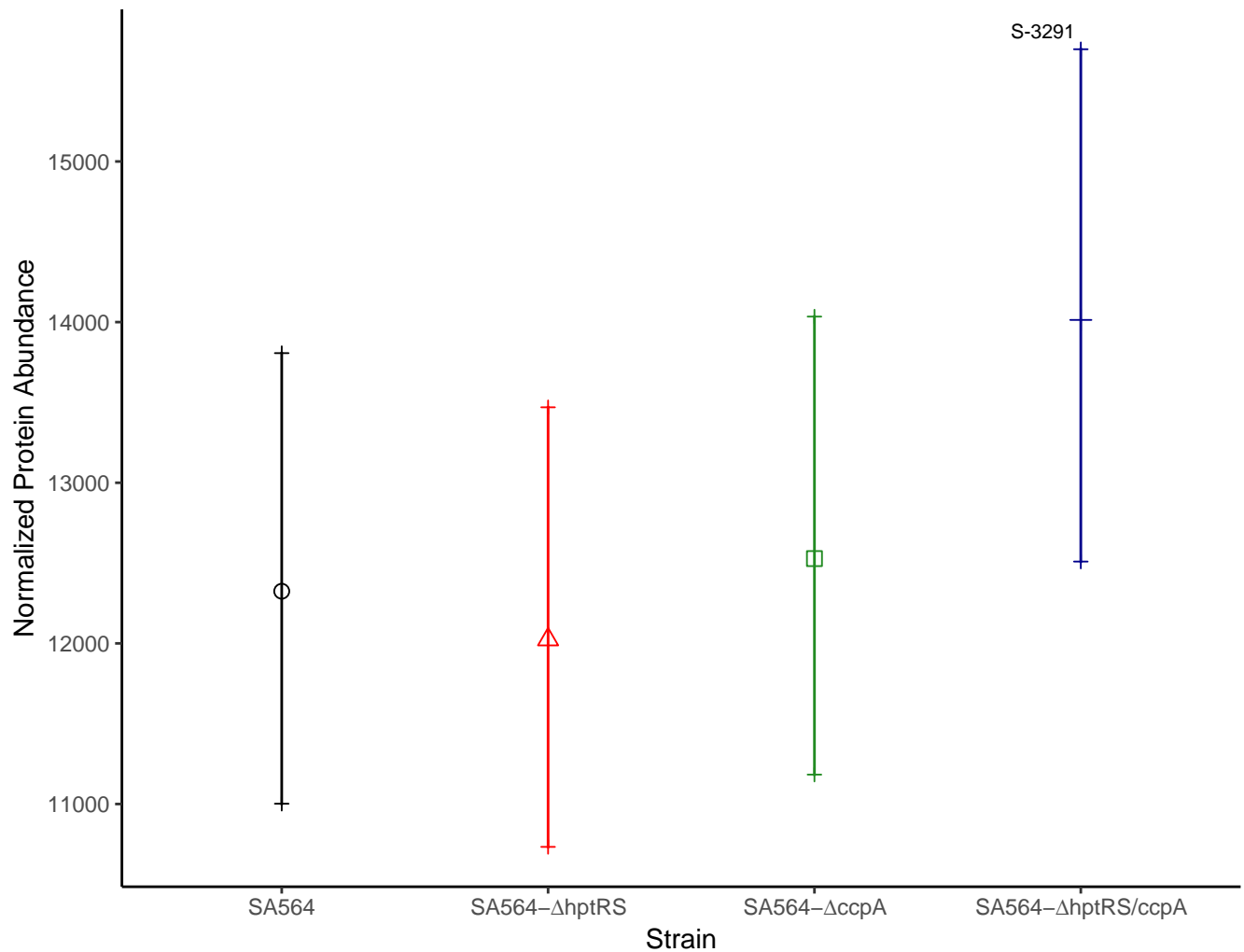
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR7\_STAAM



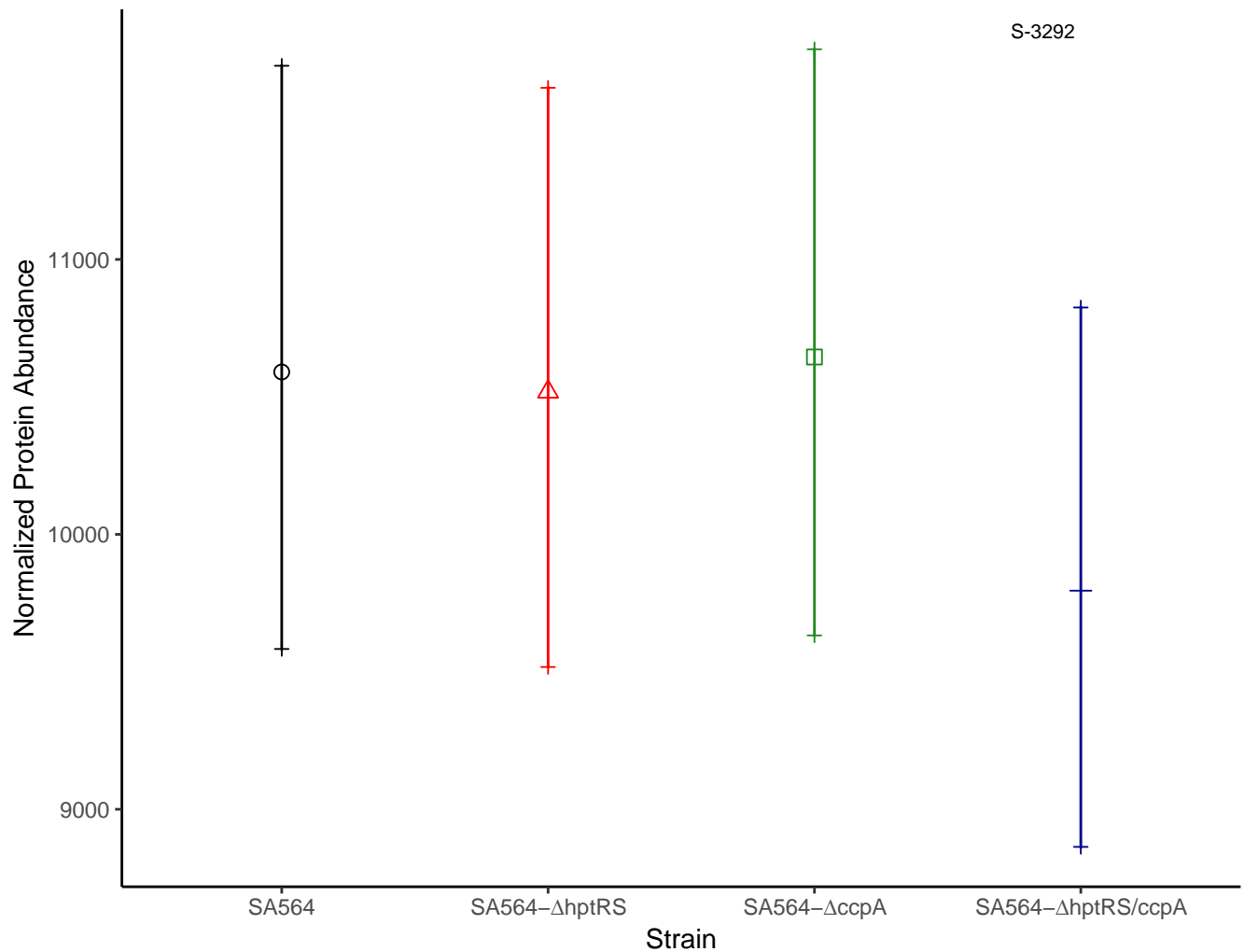
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR8\_STAAM



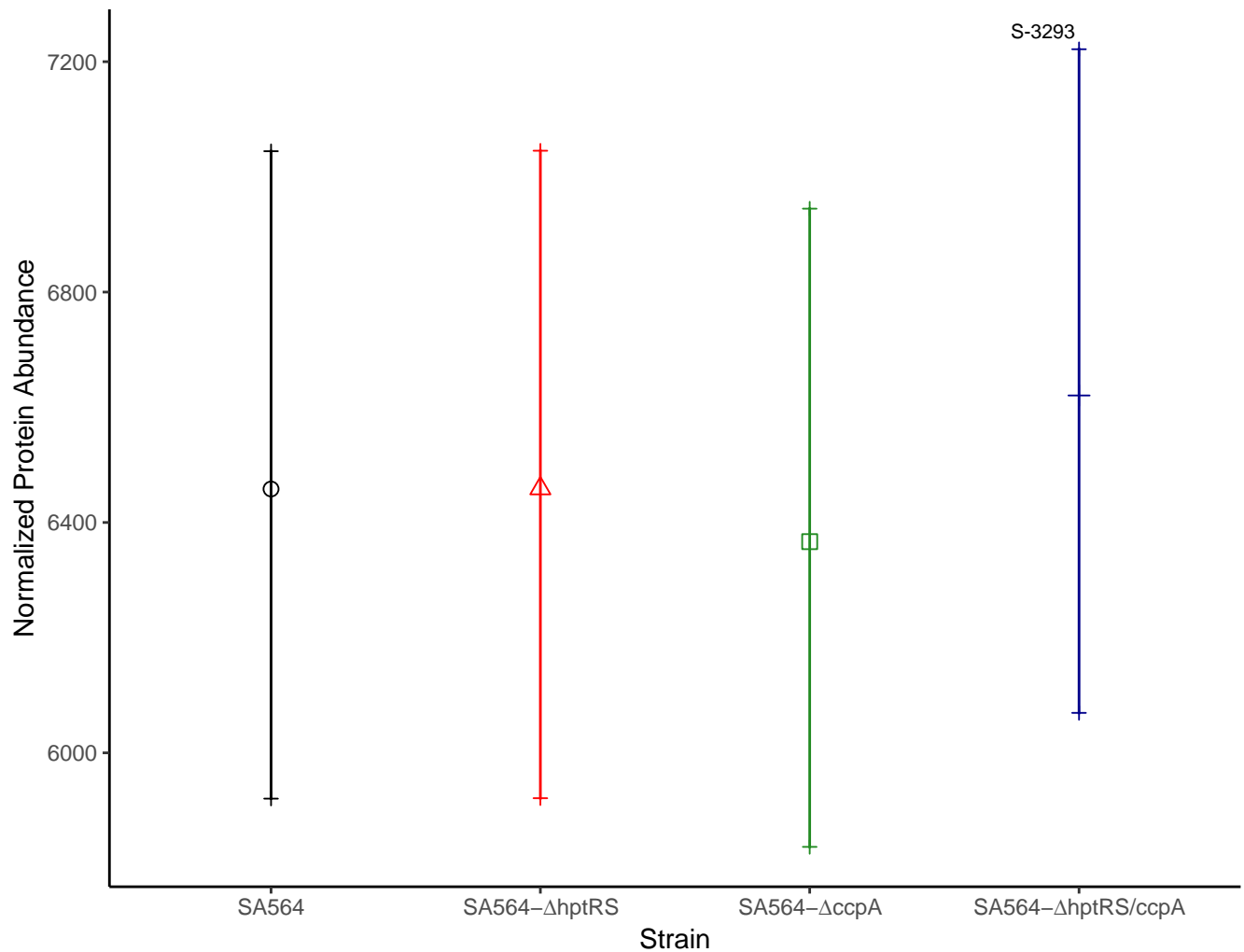
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PUR9\_STAAM



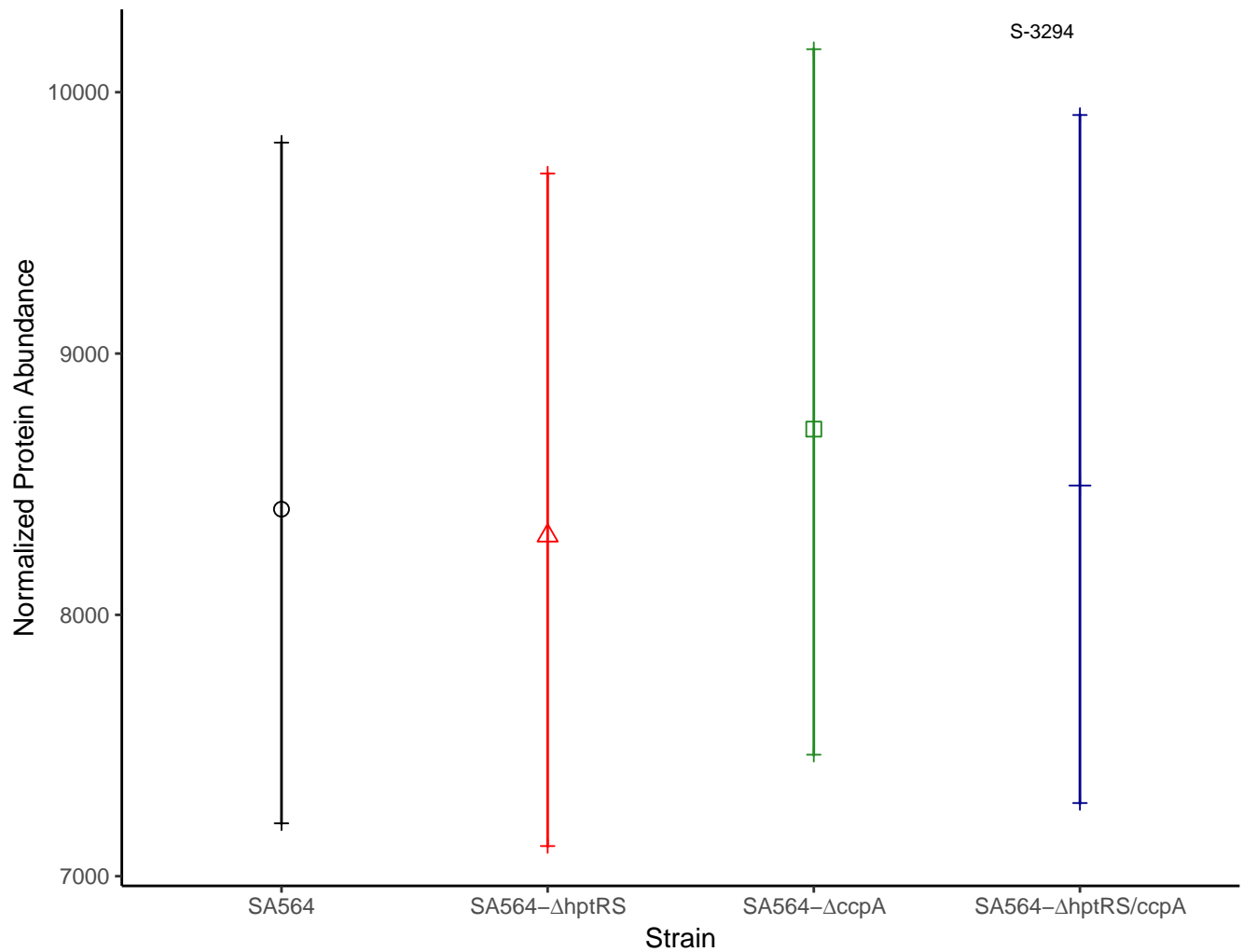
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PURA\_STAAM



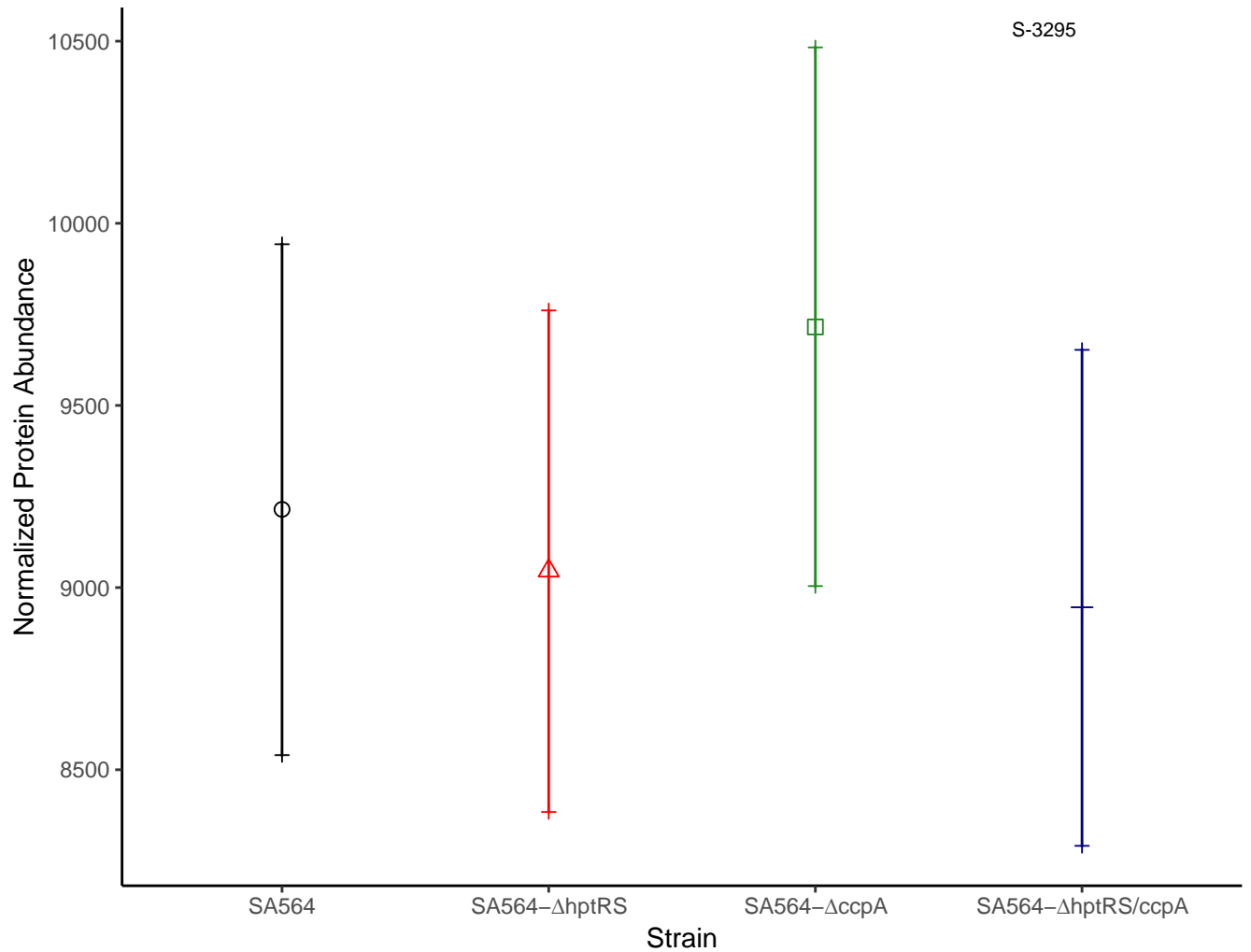
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PURK\_STAAM



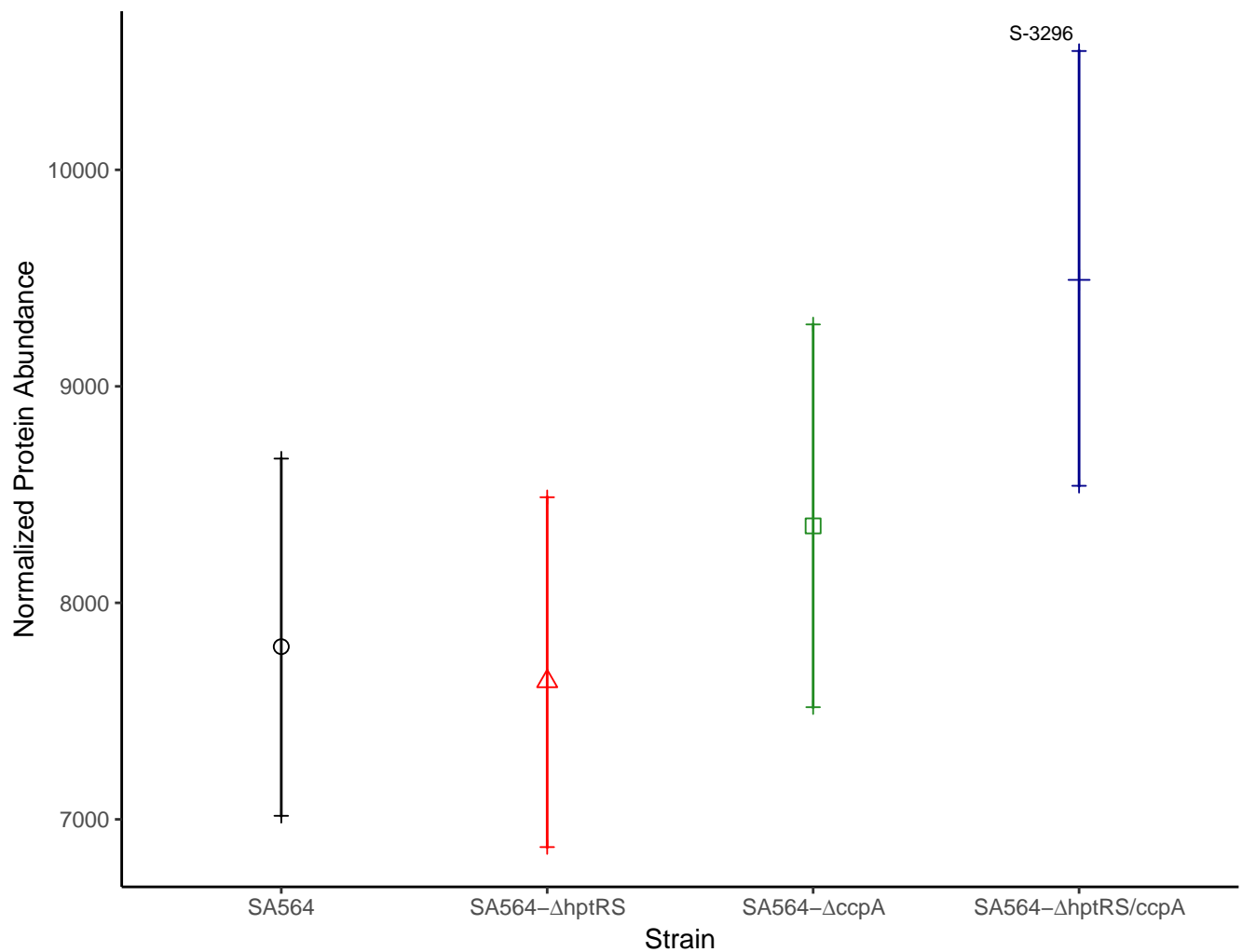
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# PURL\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

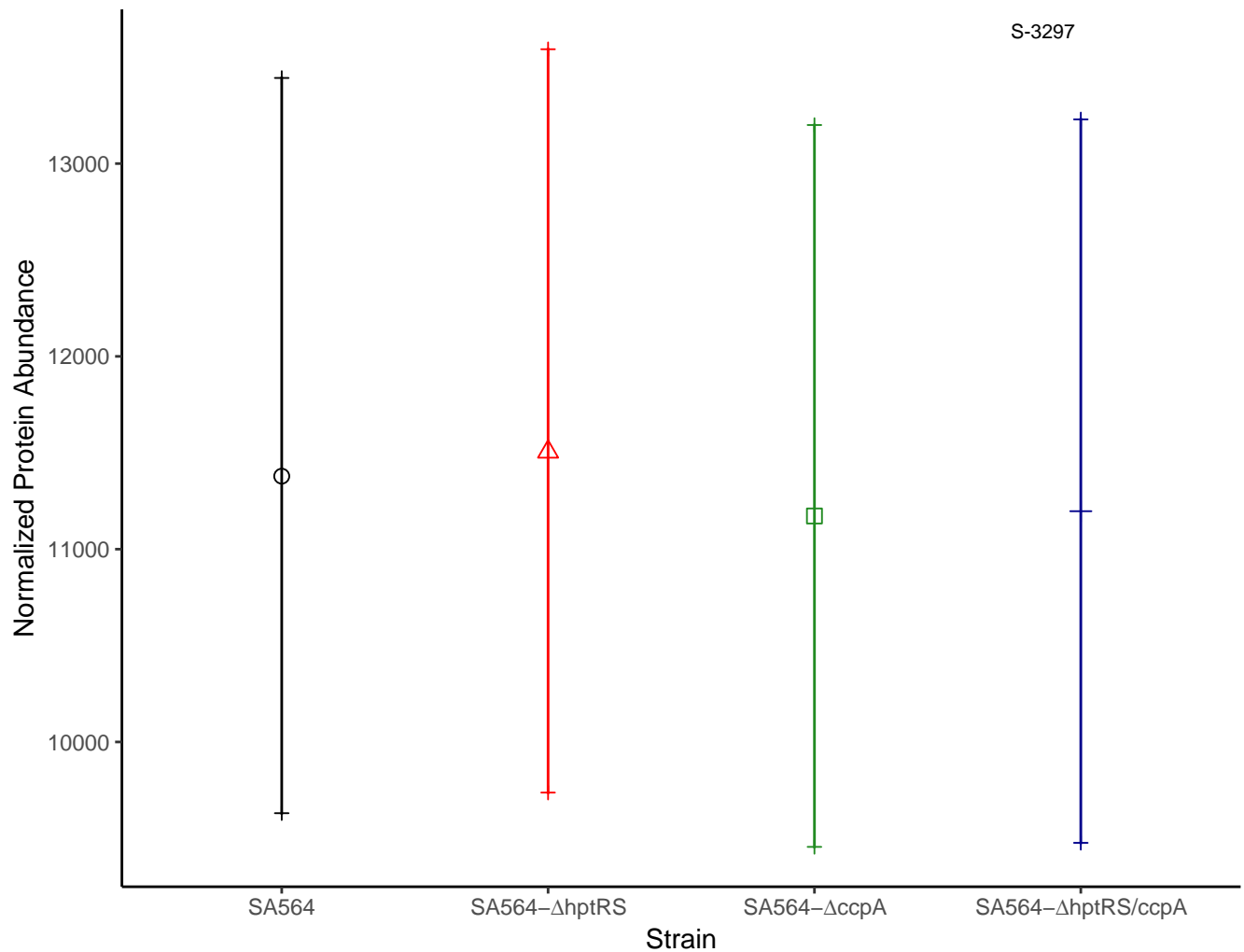
# PURQ\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

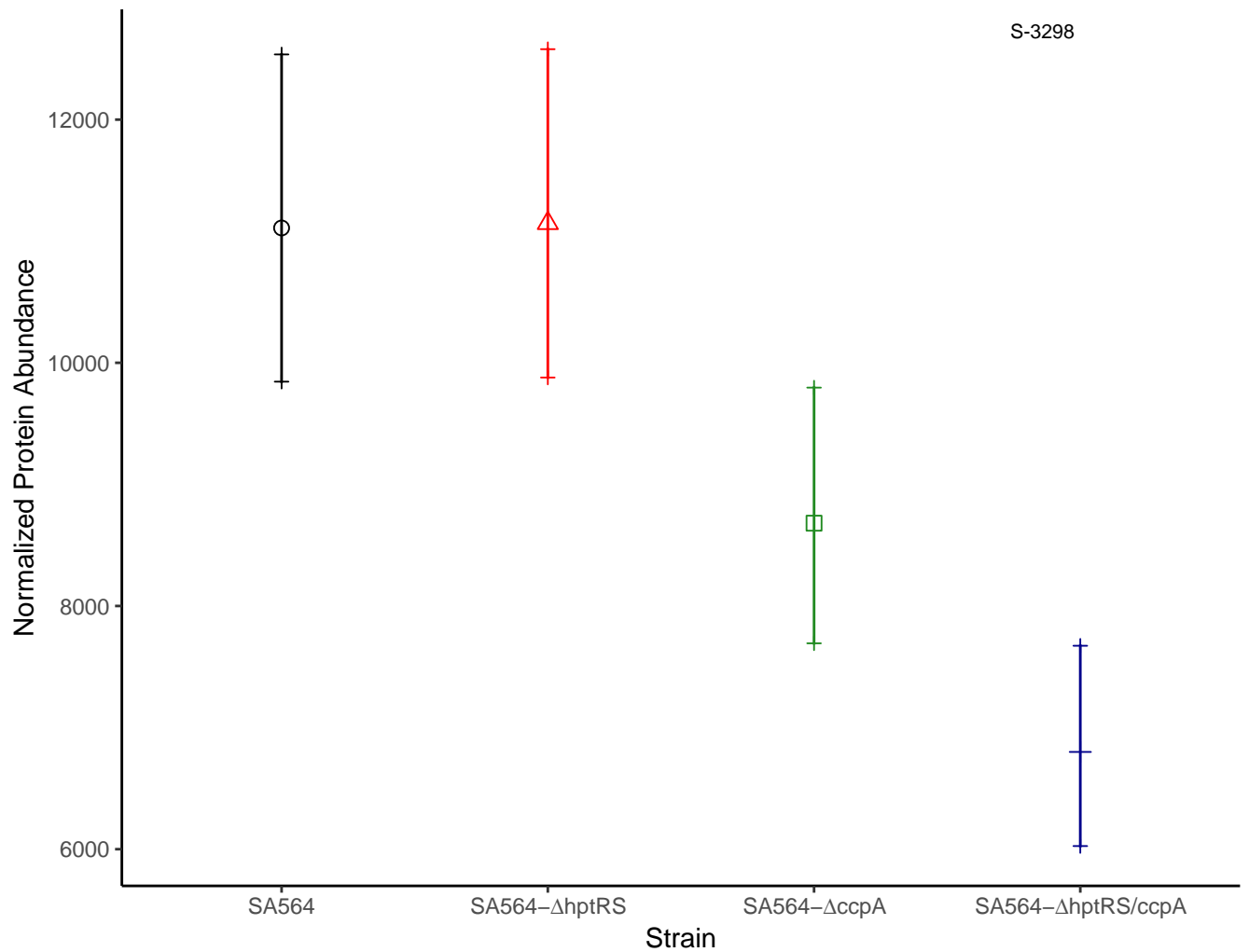


# PYRB\_STAAM



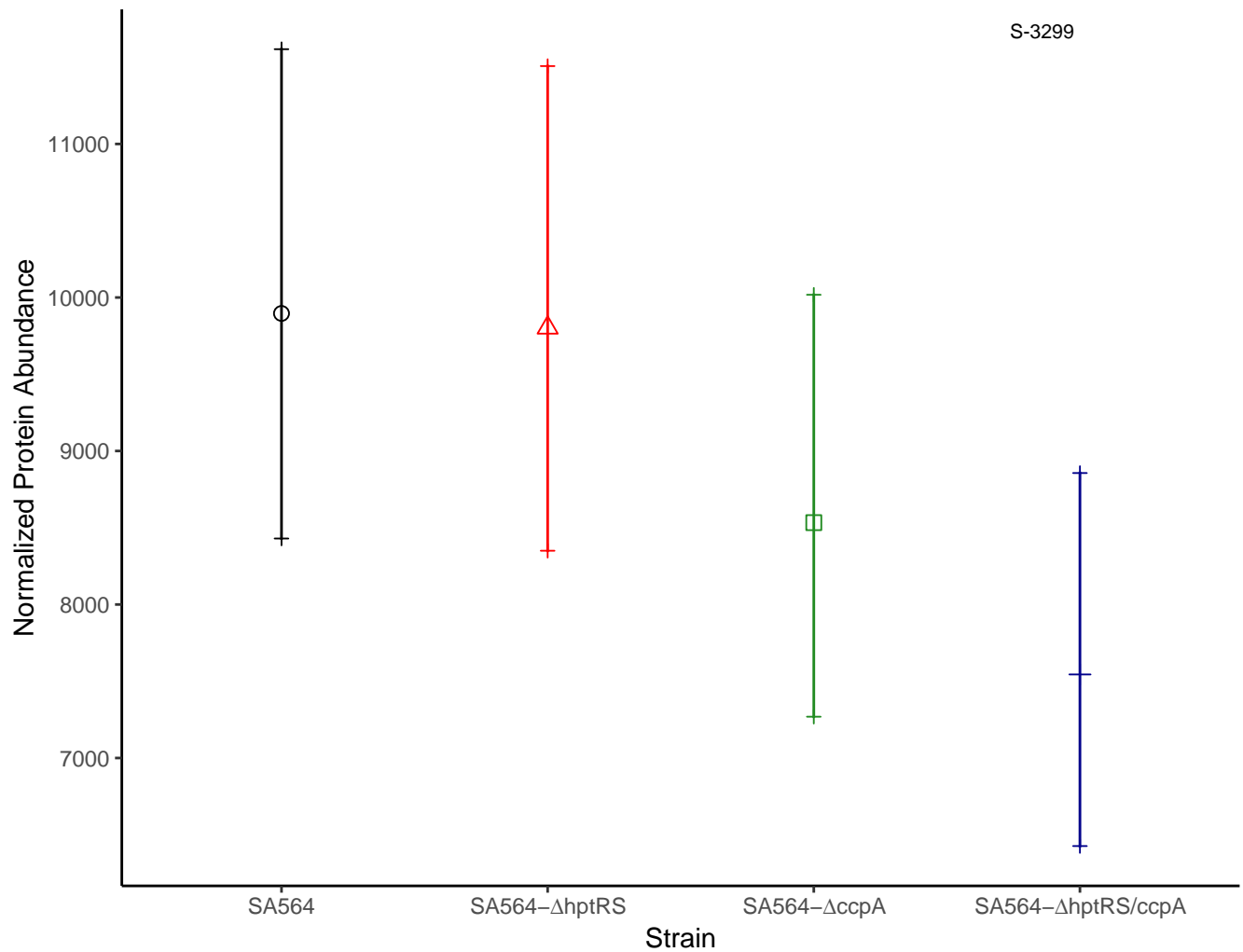
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRC\_STAAM



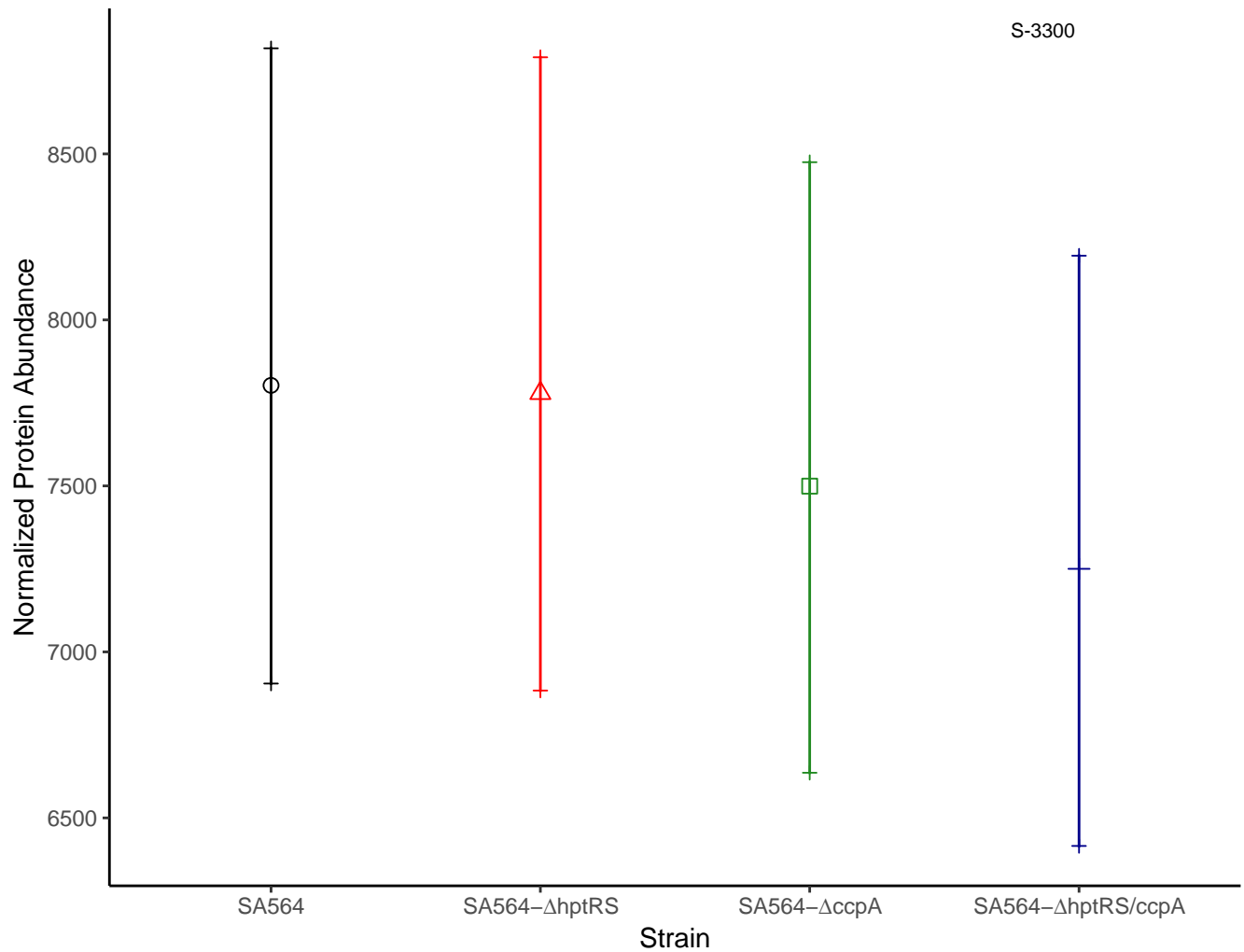
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRE\_STAAM



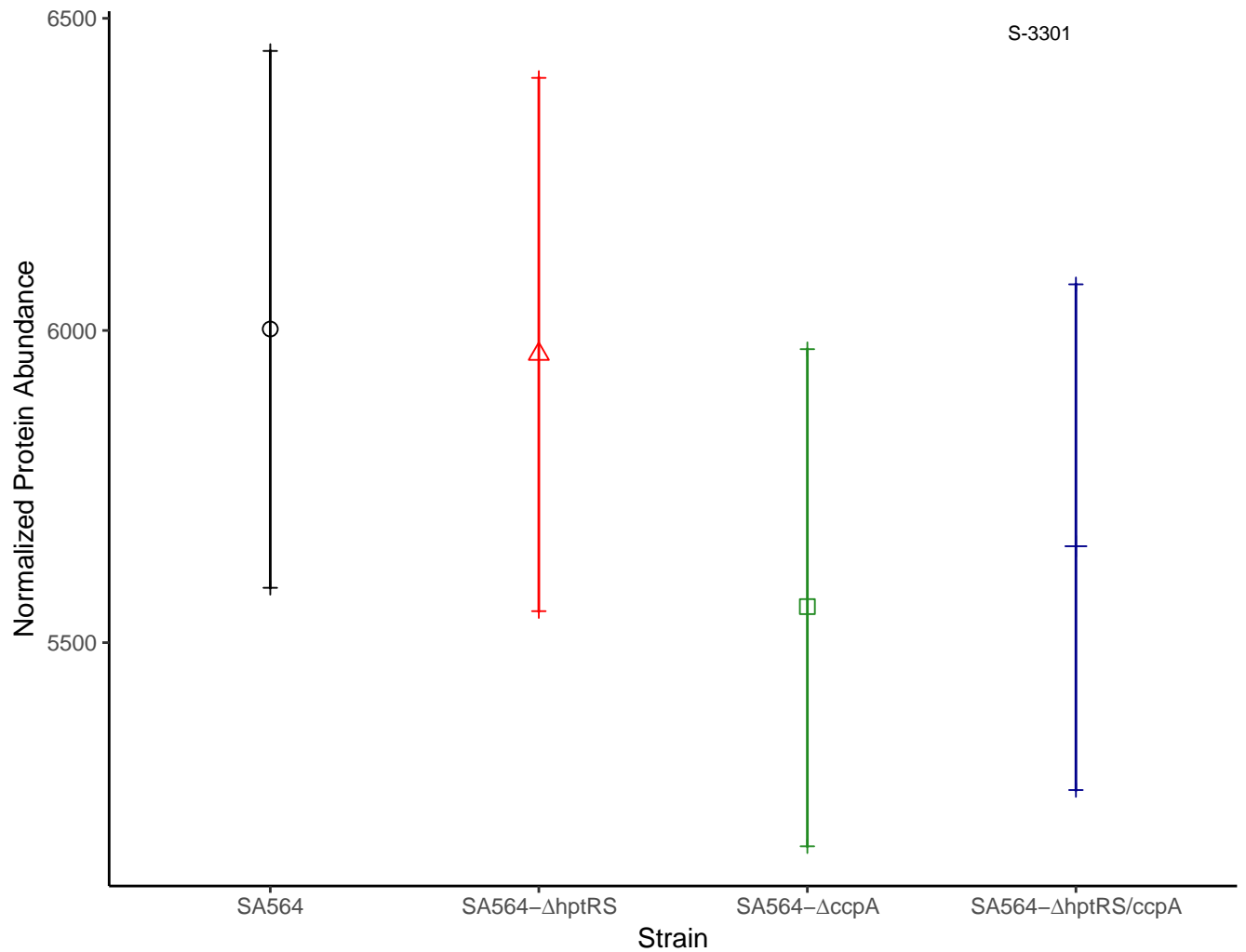
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRF\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

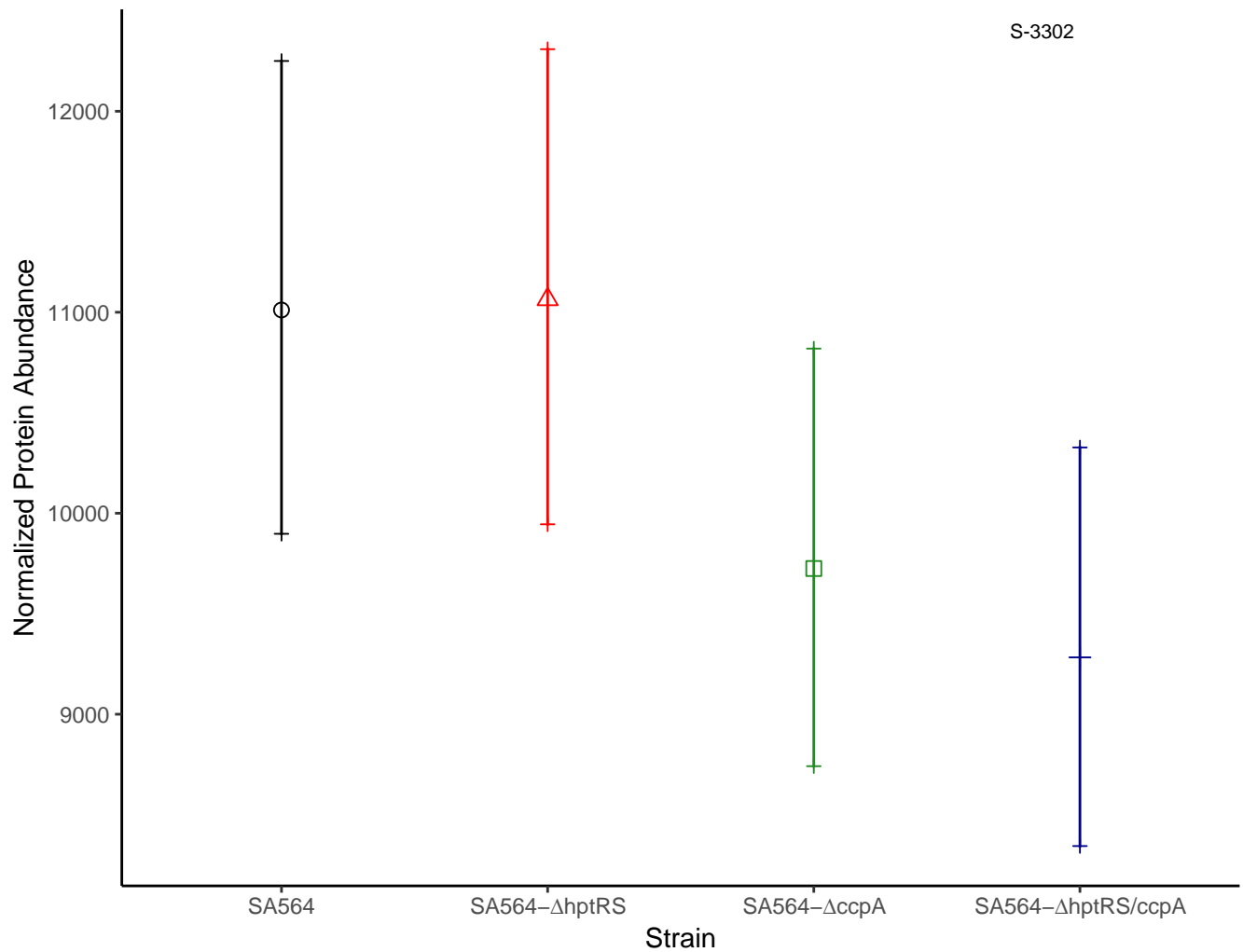
# PYRG\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

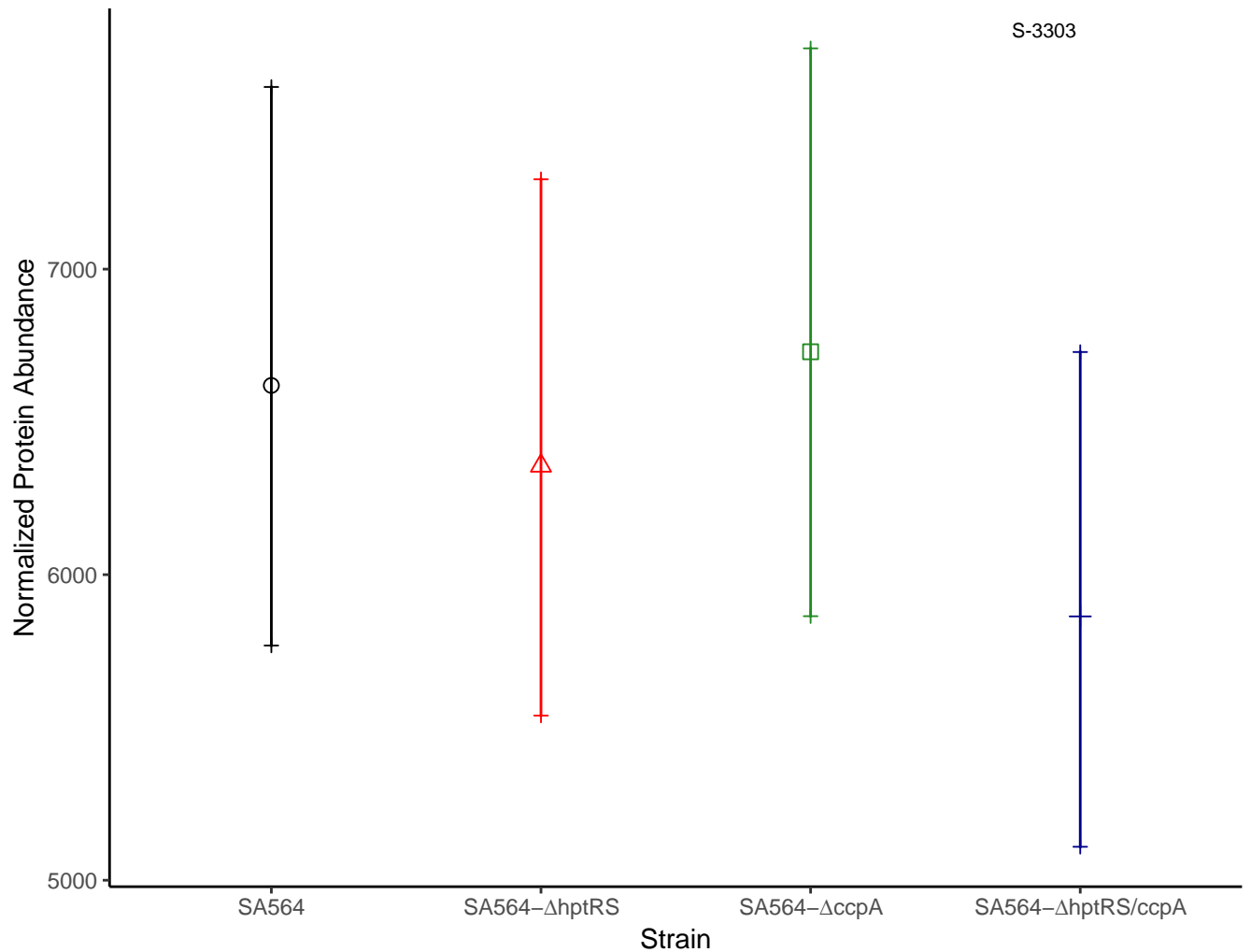
# PYRH\_STAAM

S-3302



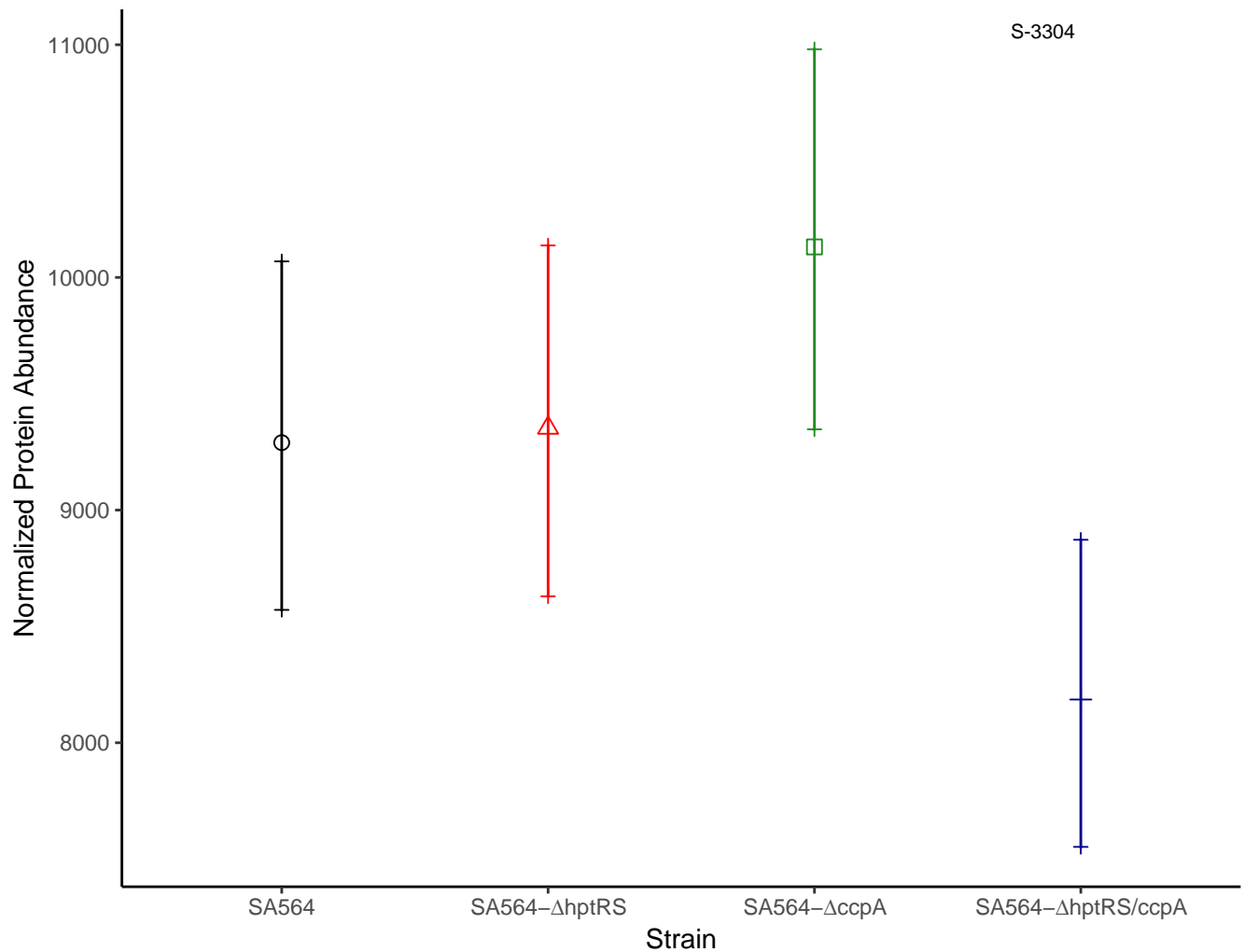
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# PYRR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# QOX2\_STAAM

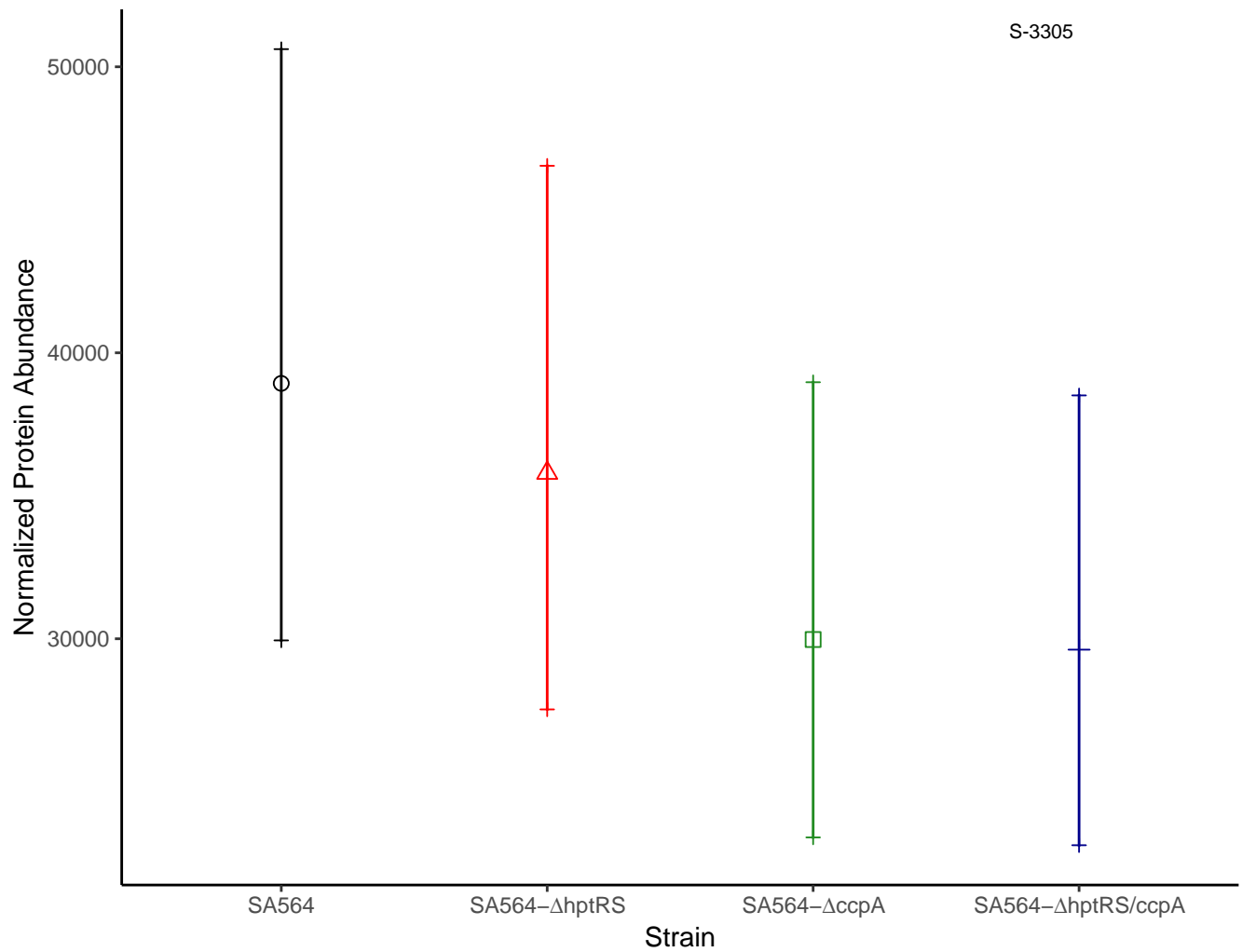


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



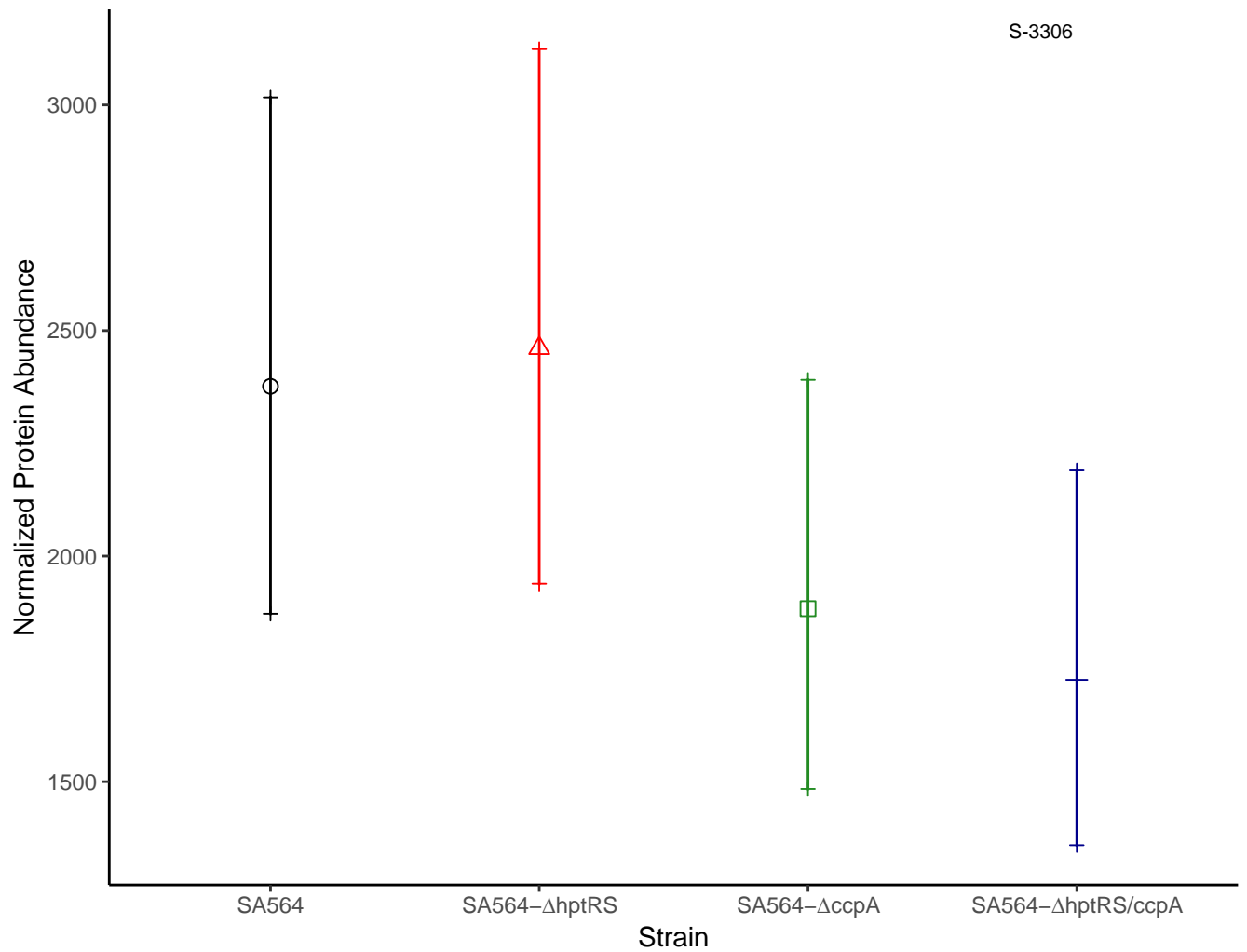
# QUEA\_STAAM

S-3305



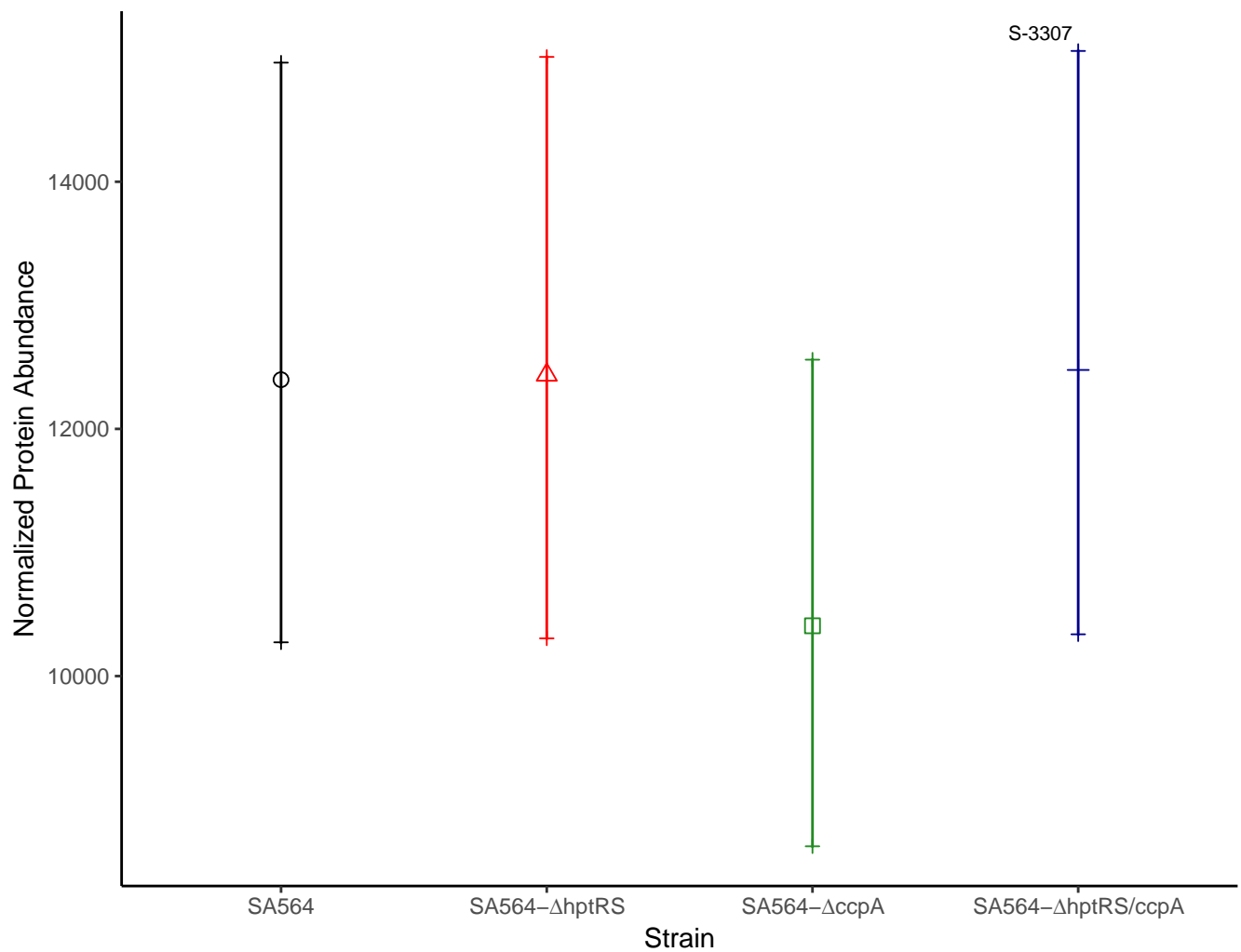
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# QUEC\_STAAM



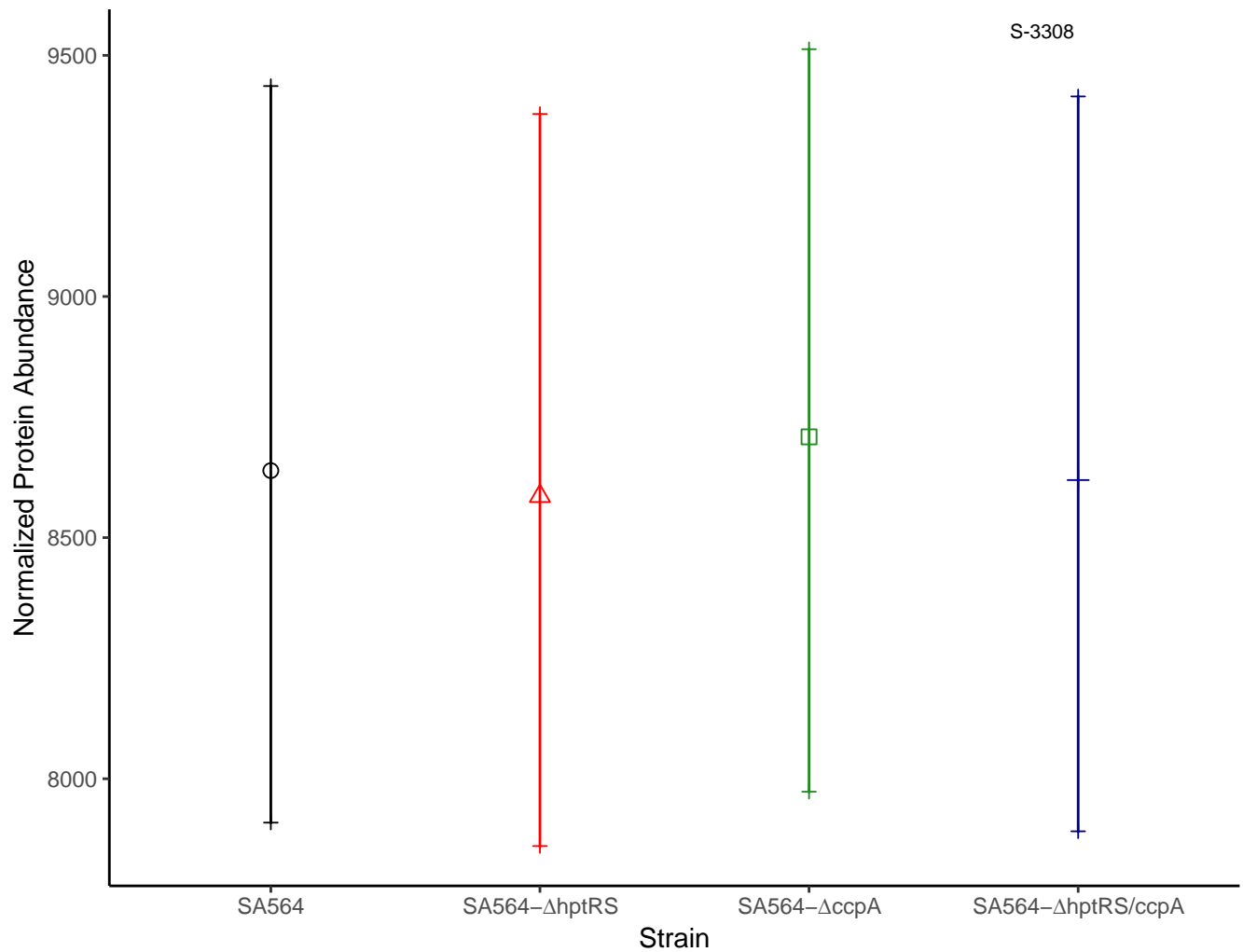
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RBFA\_STAAM



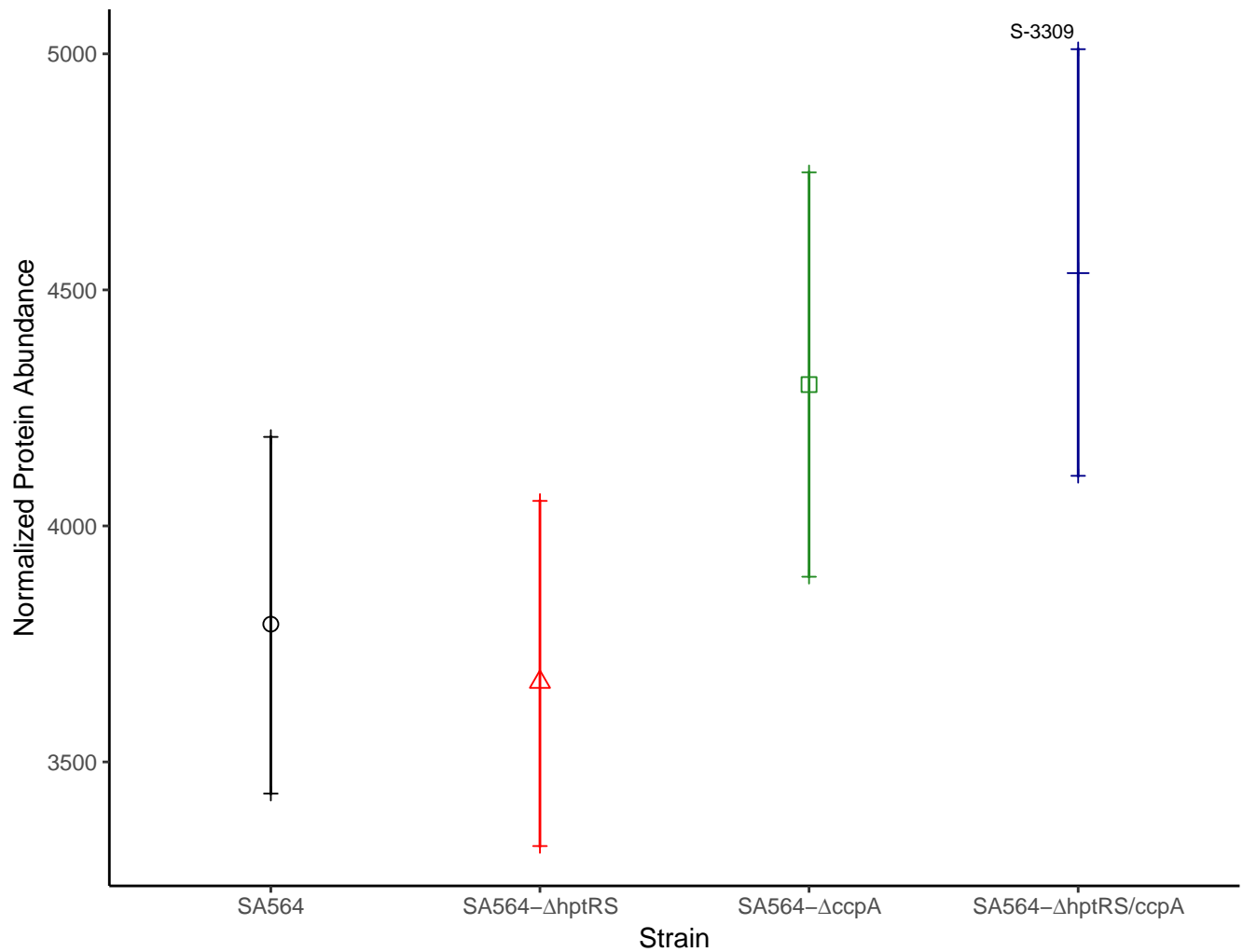
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RECA\_STAAM



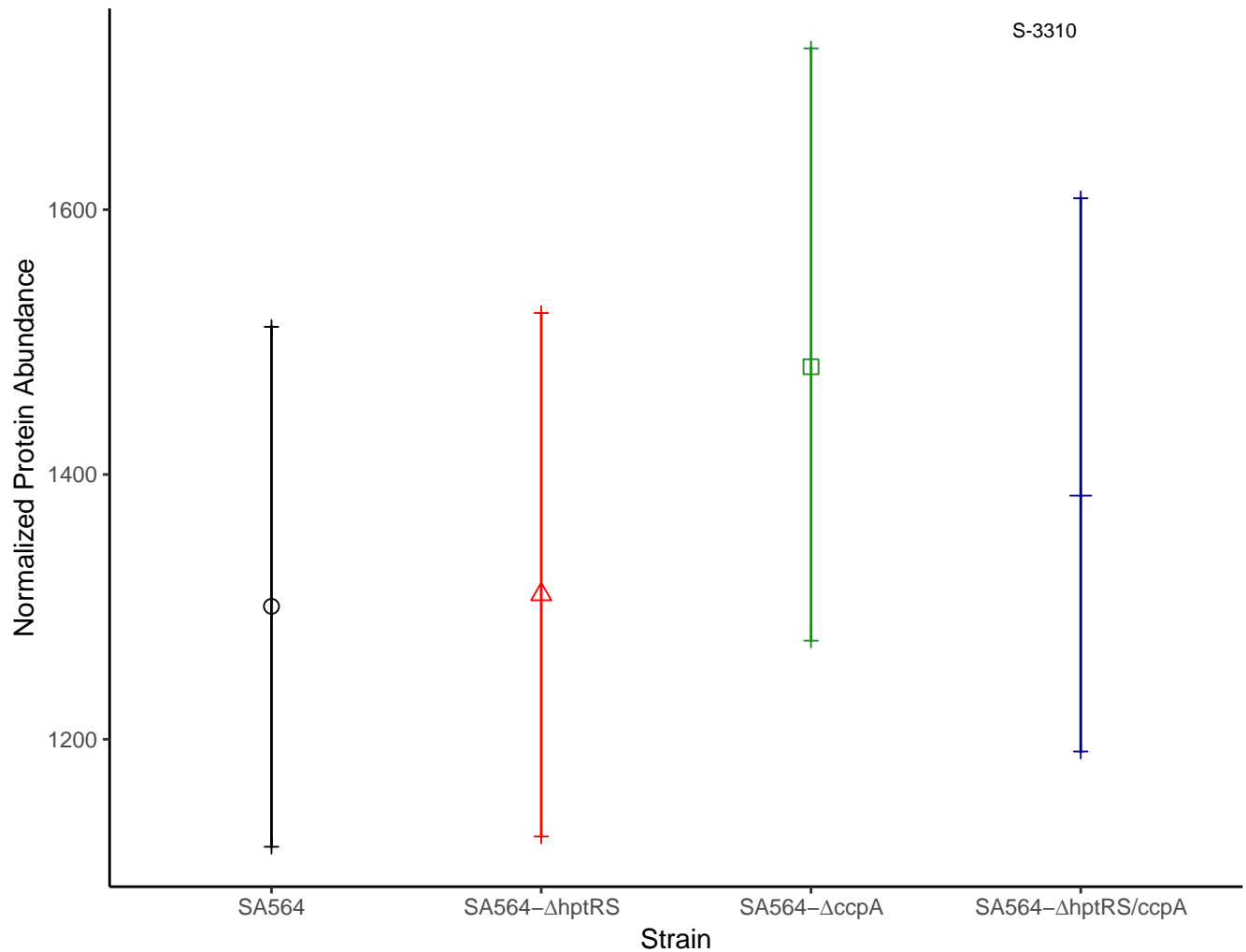
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RELA\_STAAM



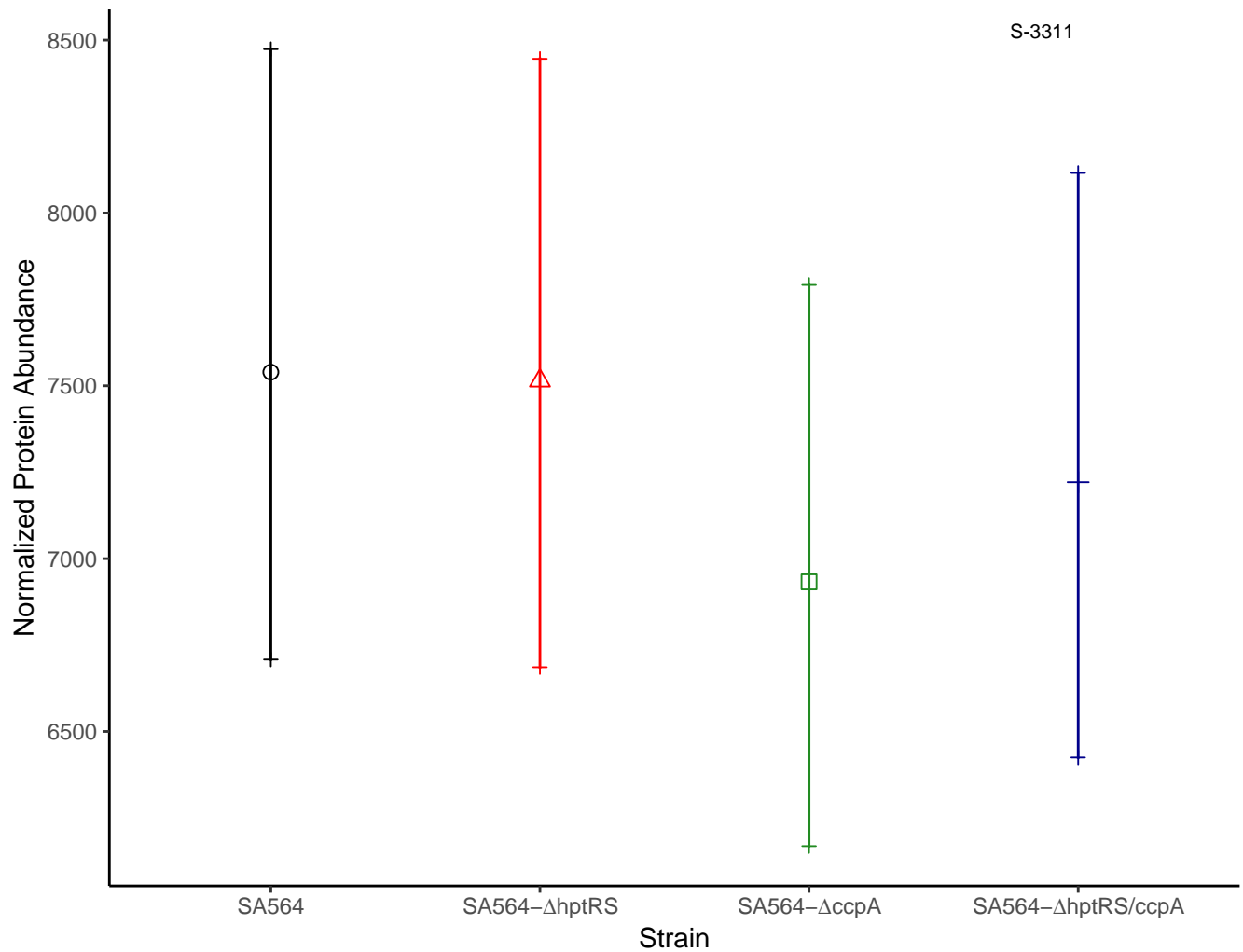
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# REX\_STAAM



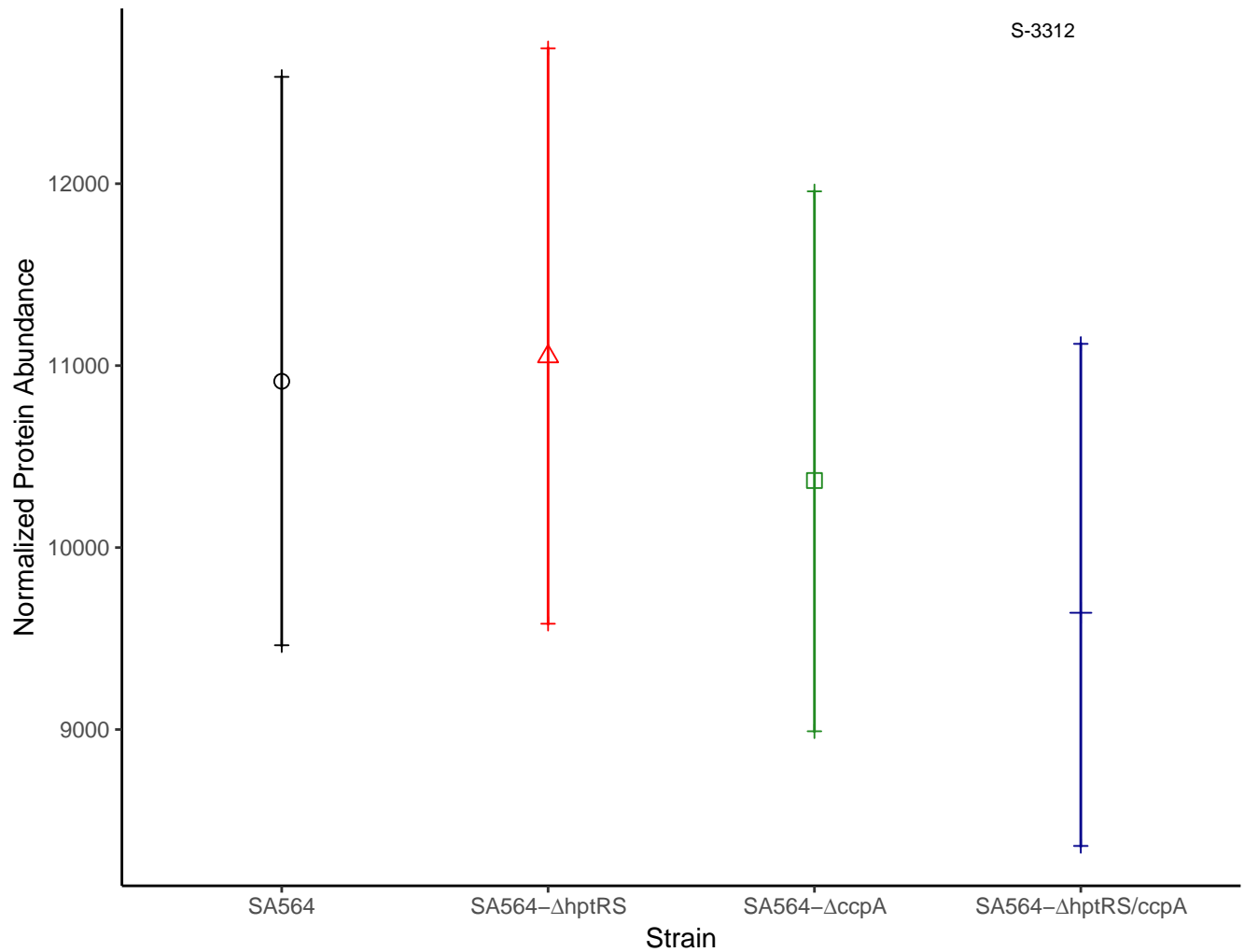
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# RF1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

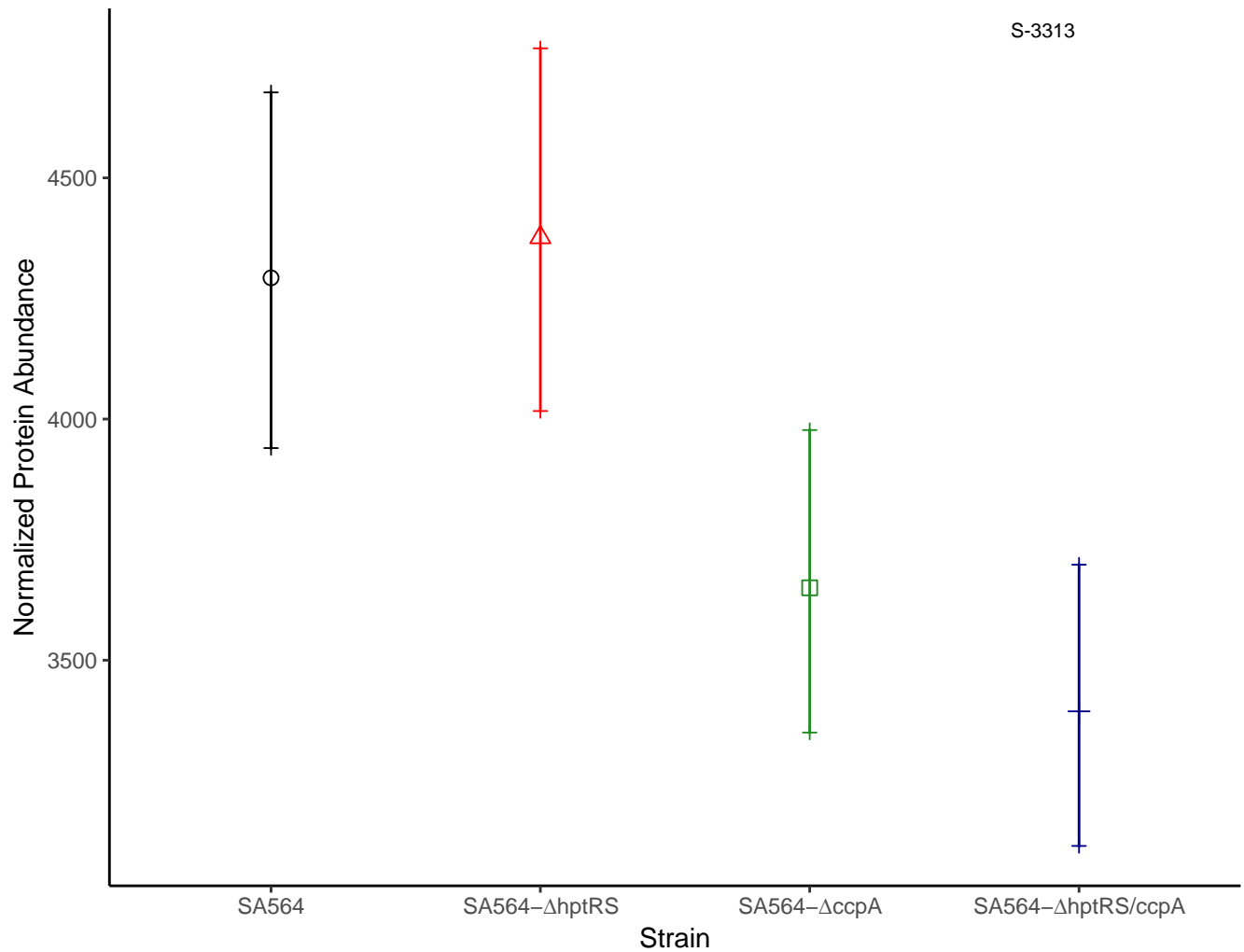
# RIBBA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

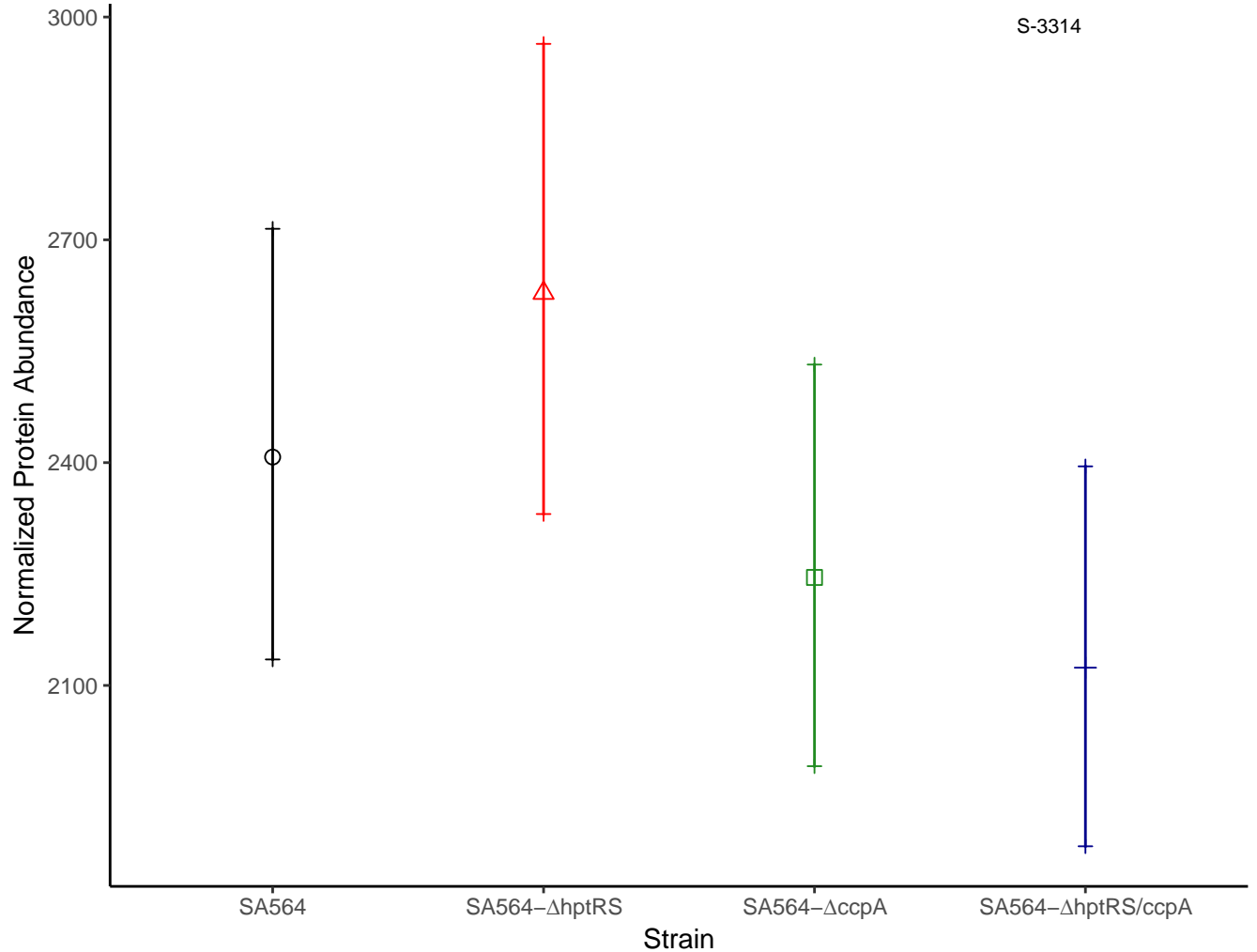


# RIMM\_STAAM



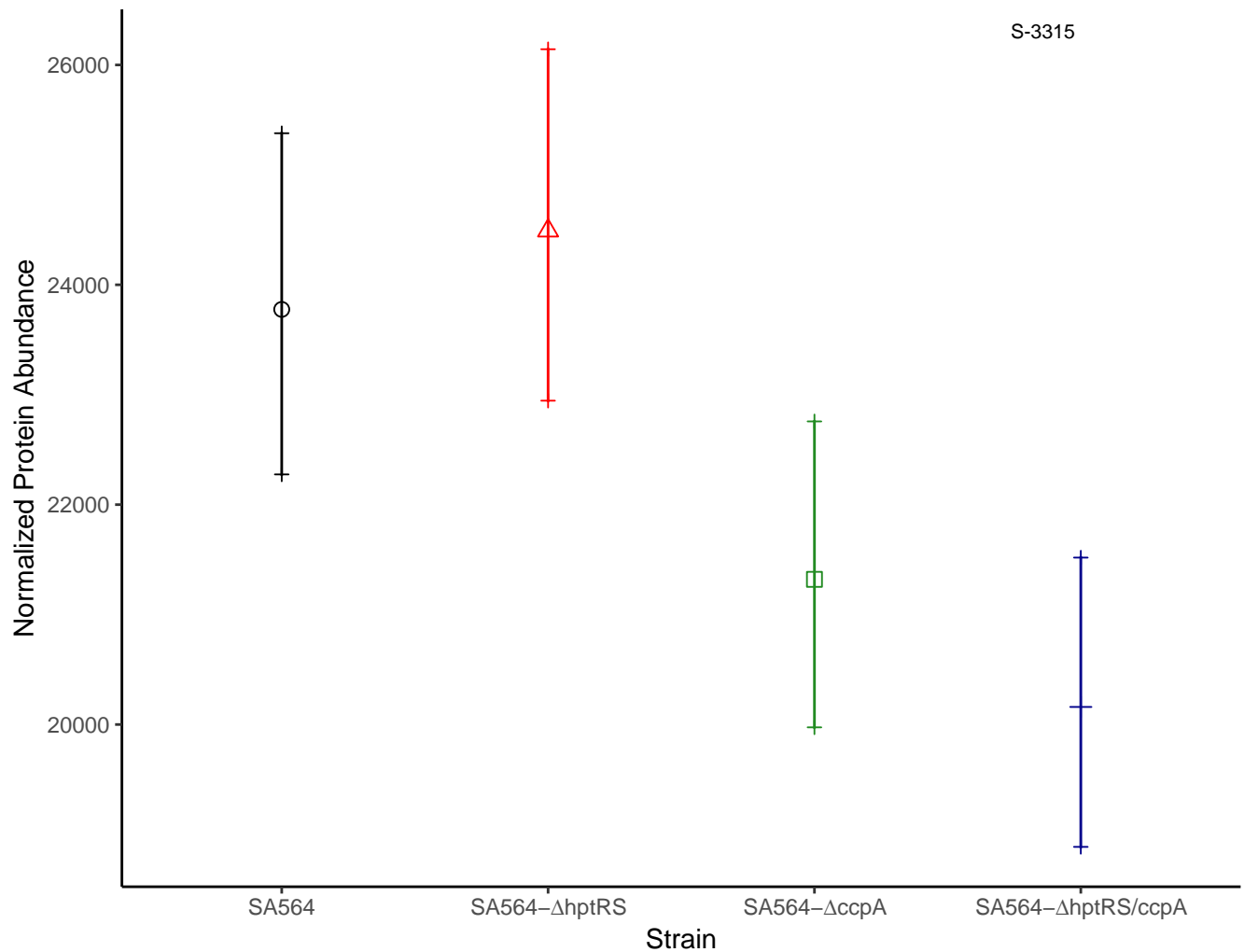
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RISB\_STAAM



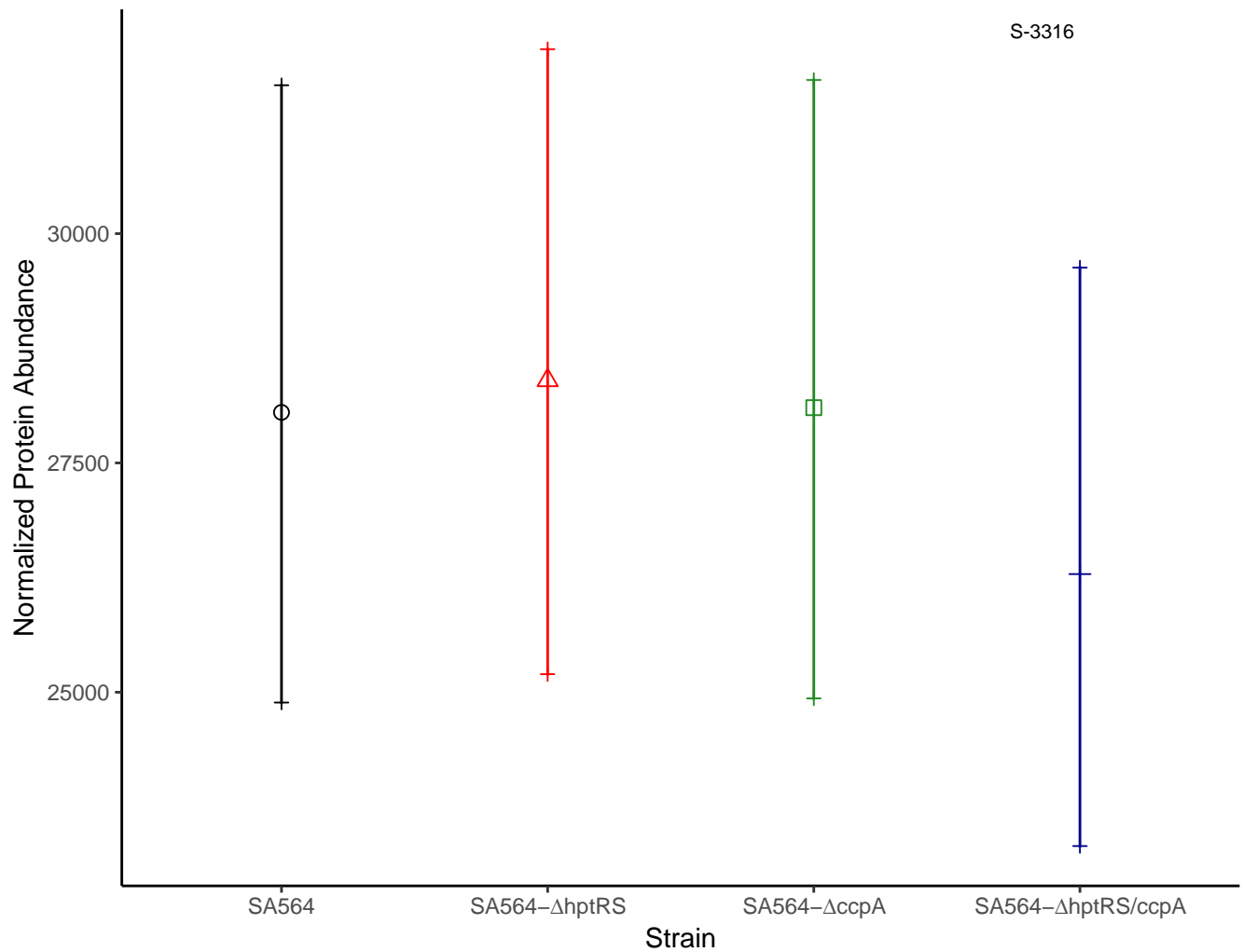
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL1\_STAAM



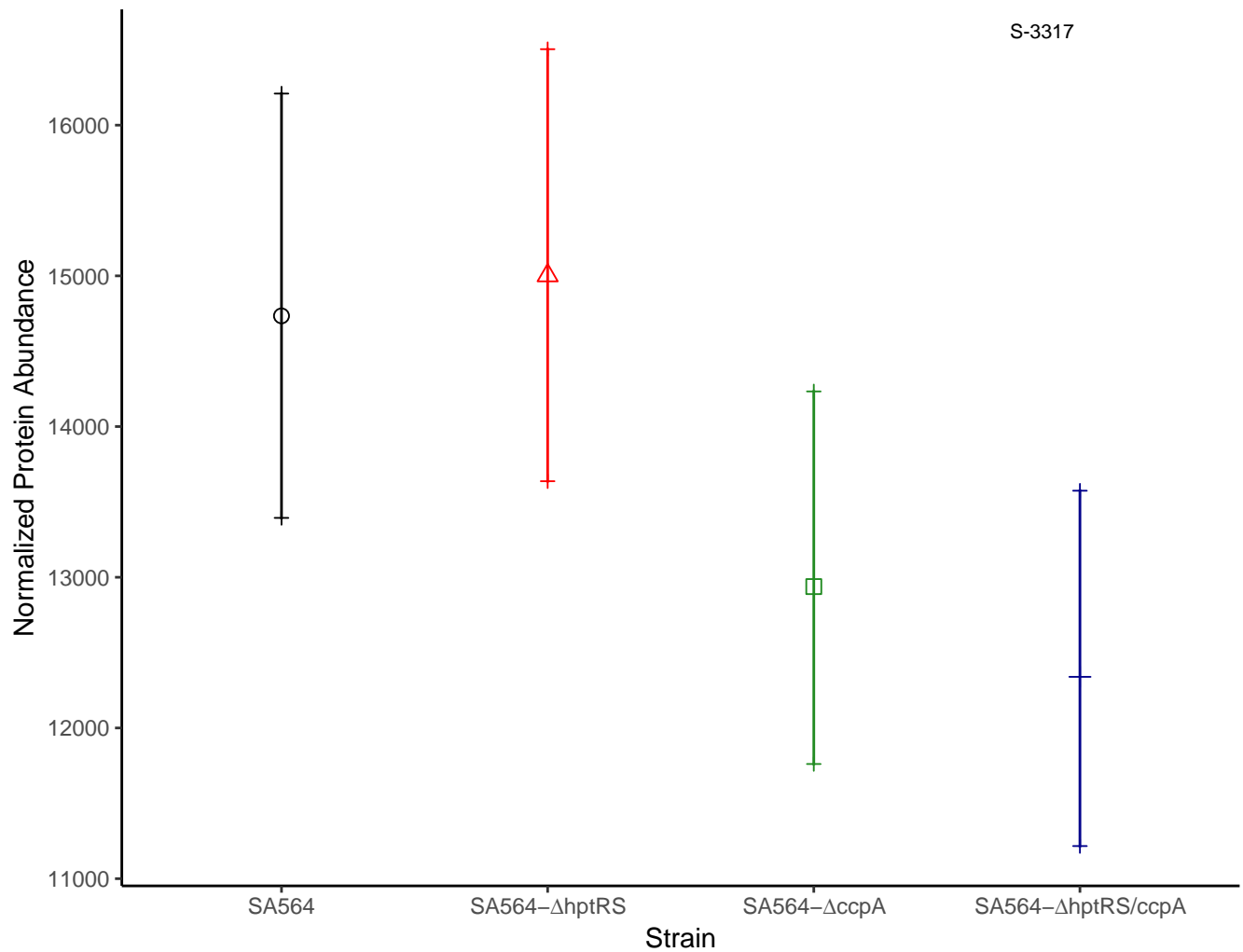
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL10\_STAAM



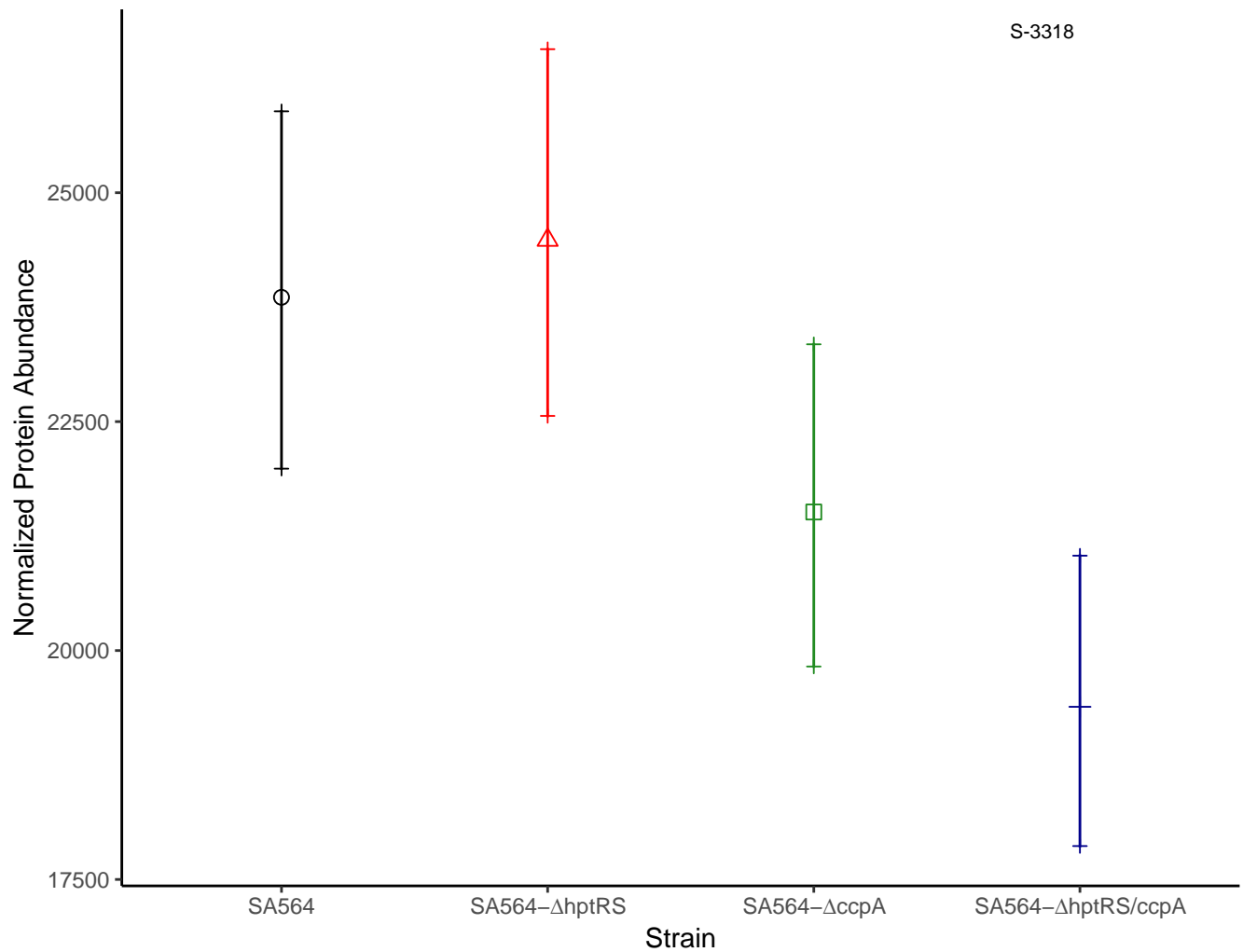
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL11\_STAAM



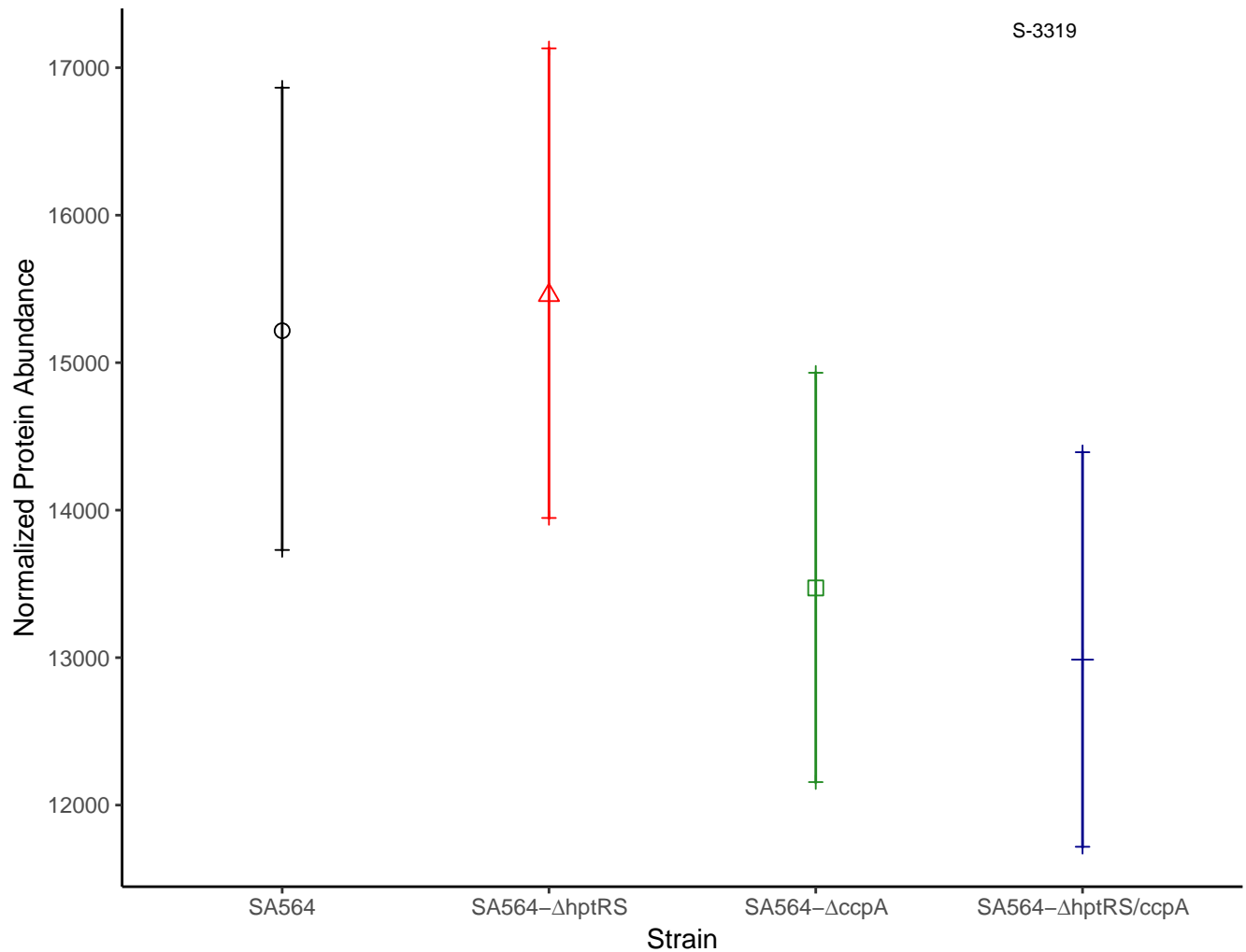
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

## RL13\_STAAM



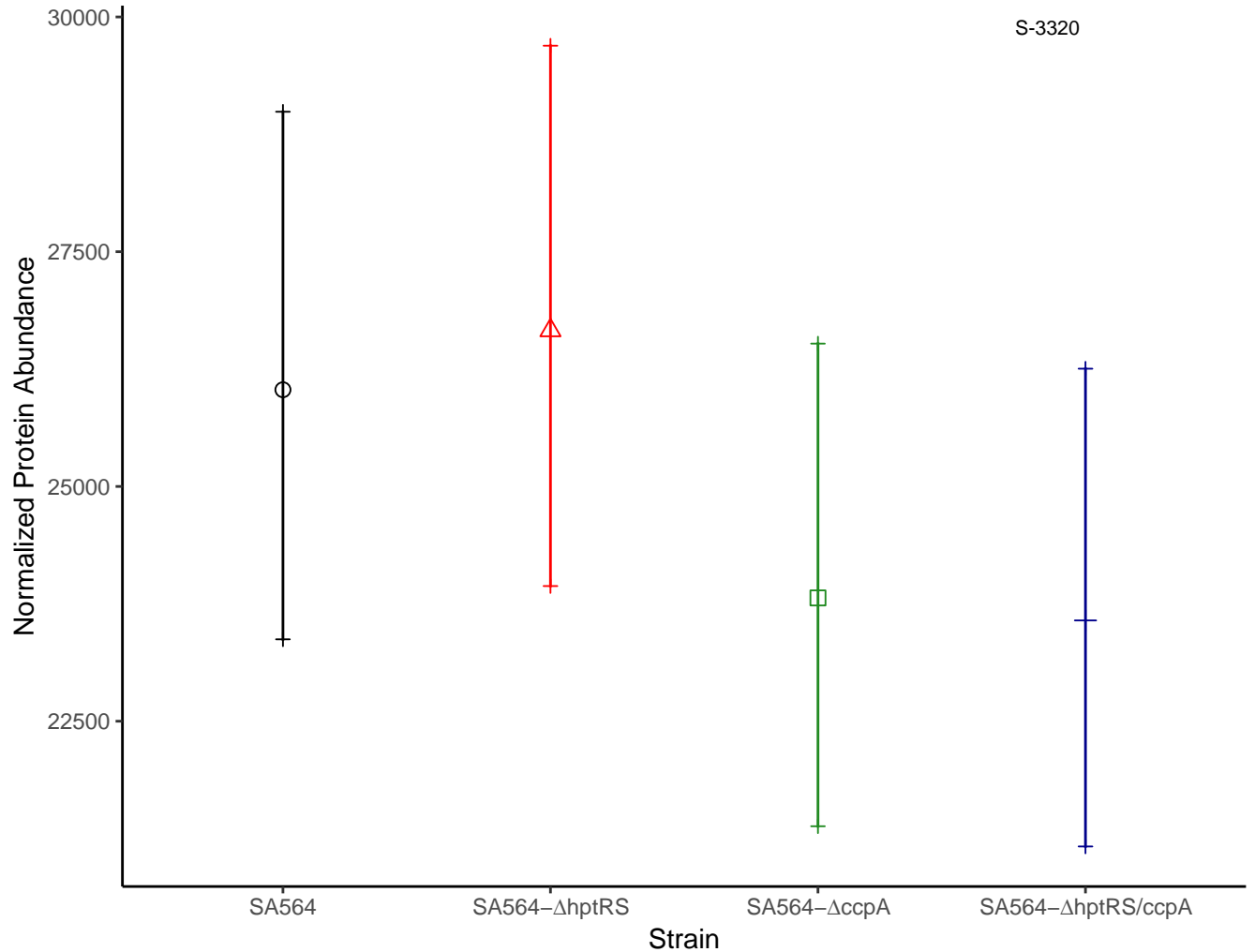
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# RL14\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

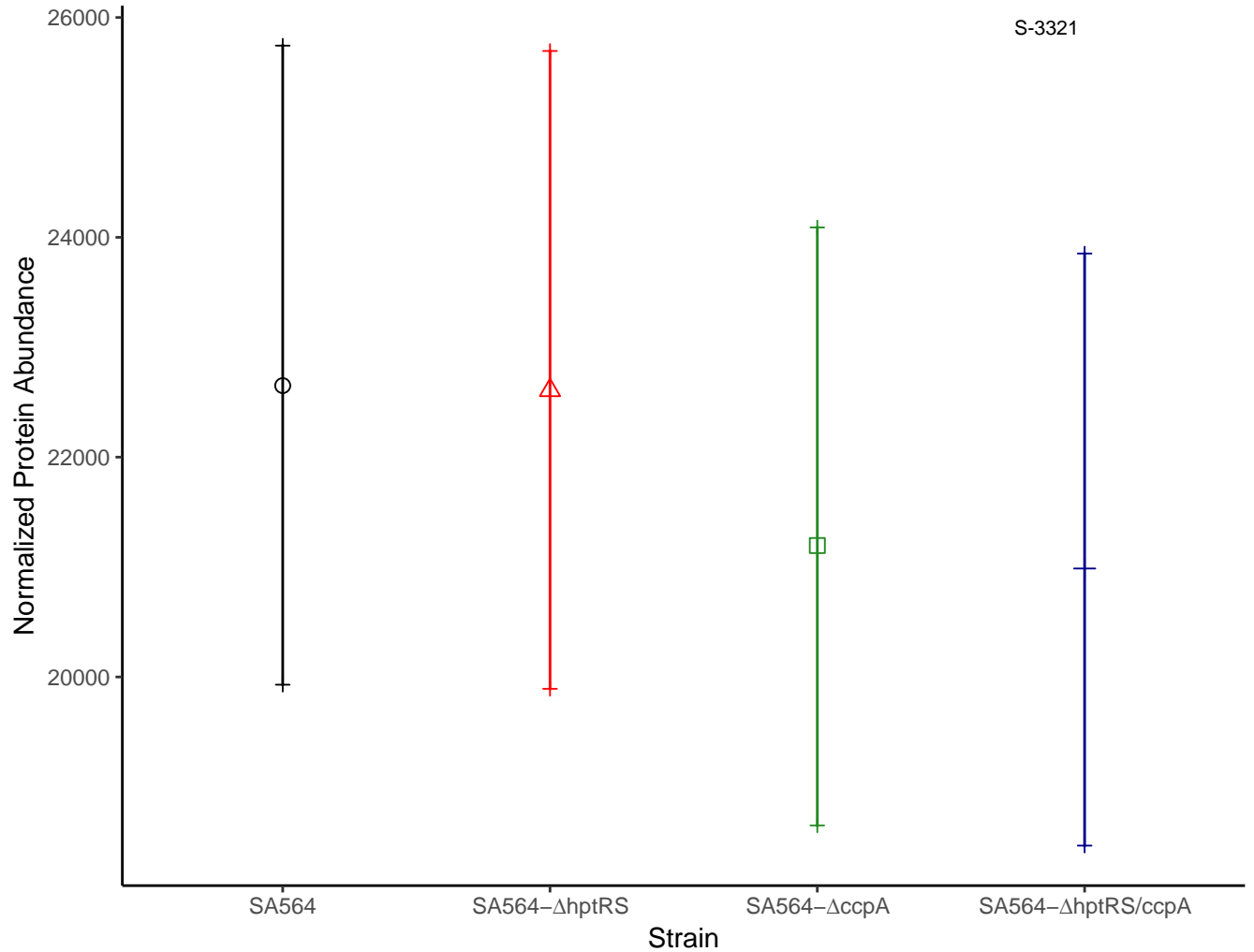
# RL15\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

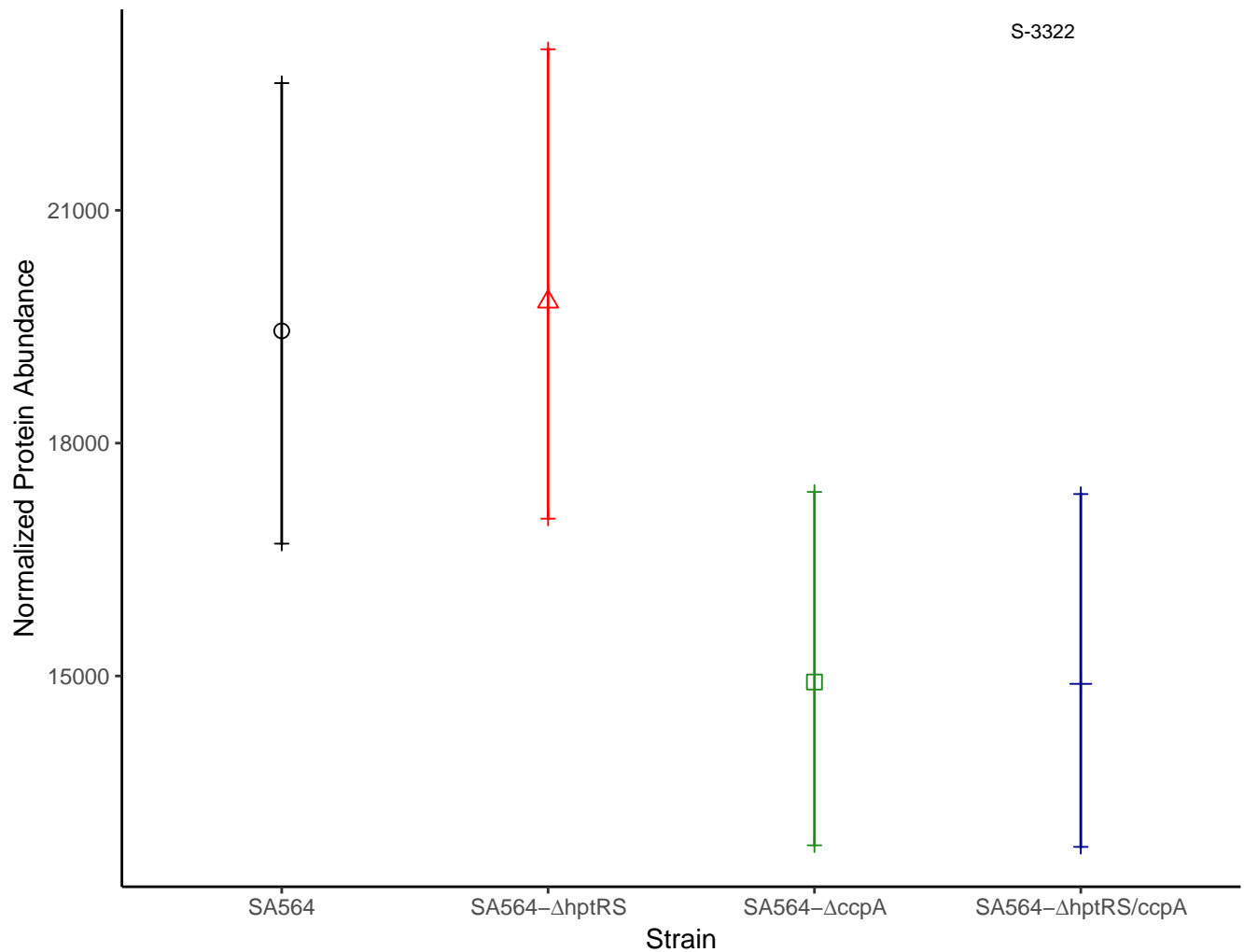


# RL16\_STAAM



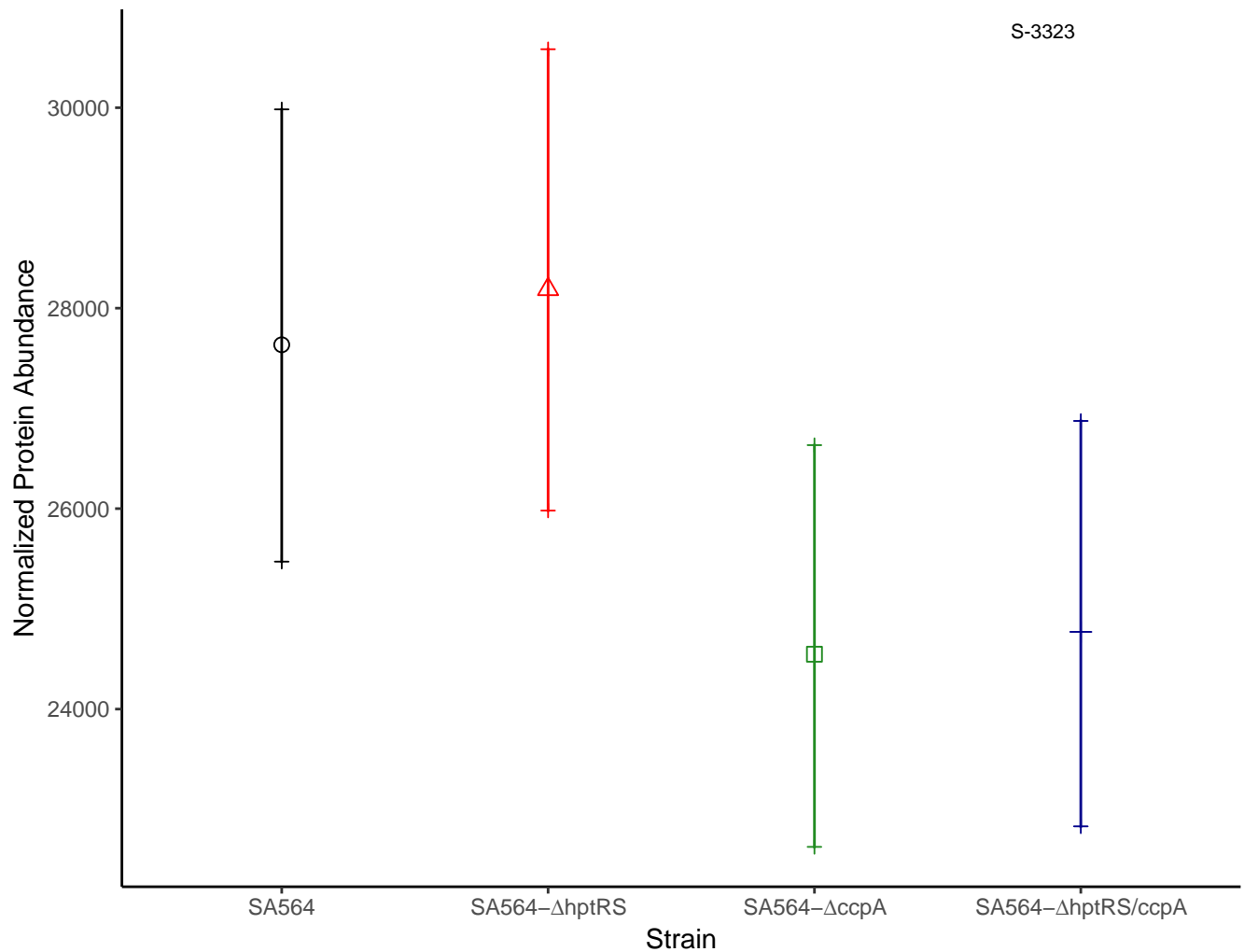
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL17\_STAAM



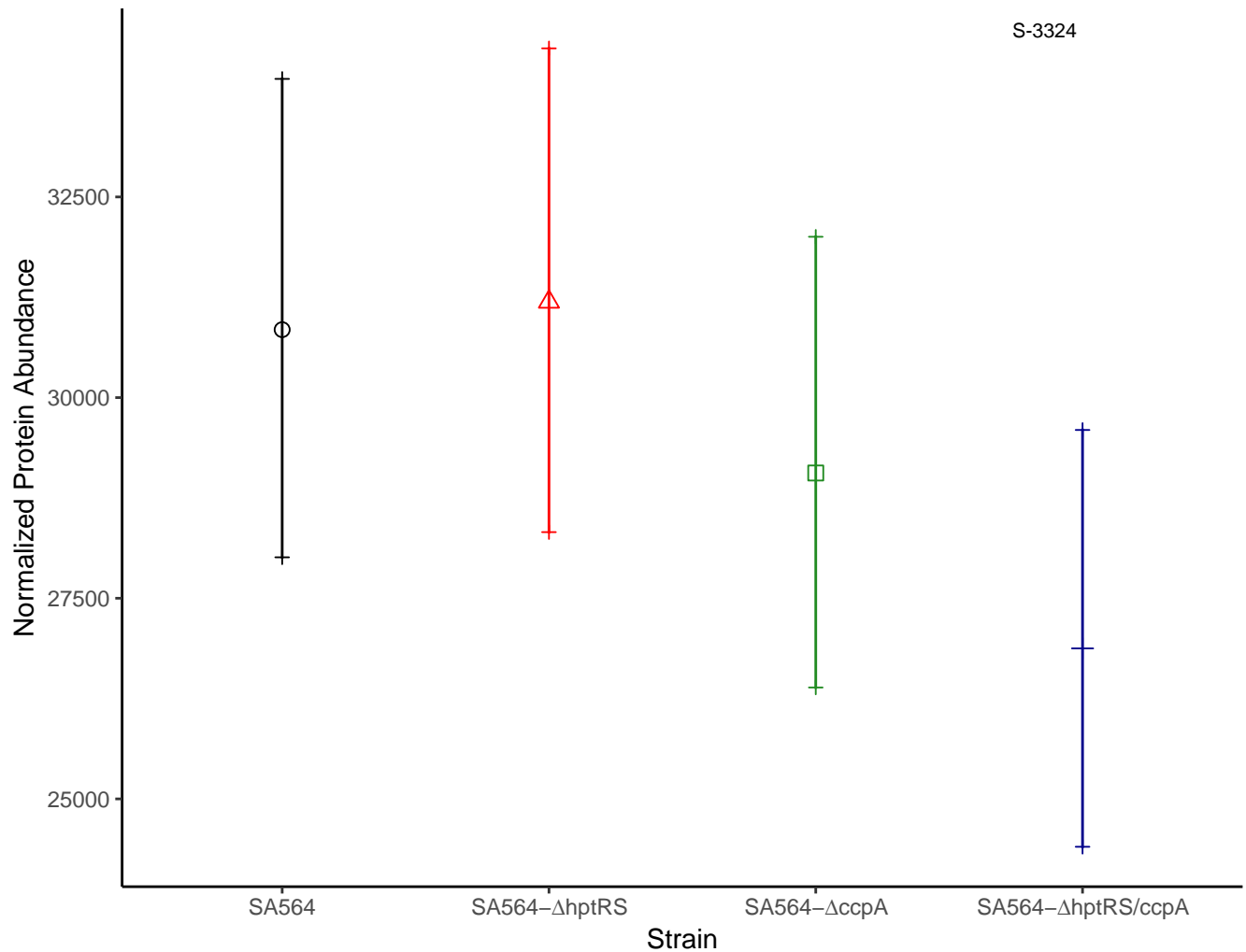
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL18\_STAAM



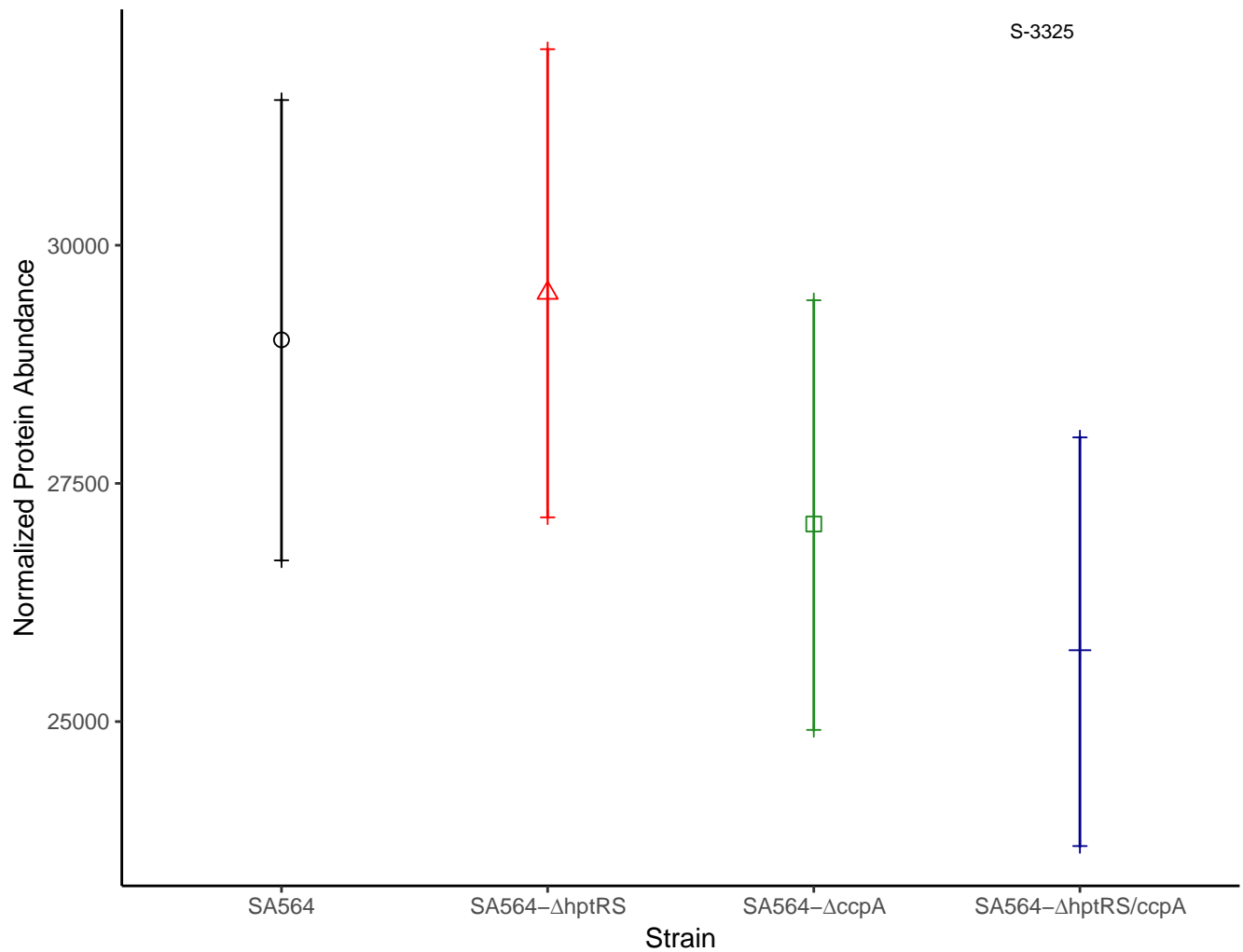
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL19\_STAAM



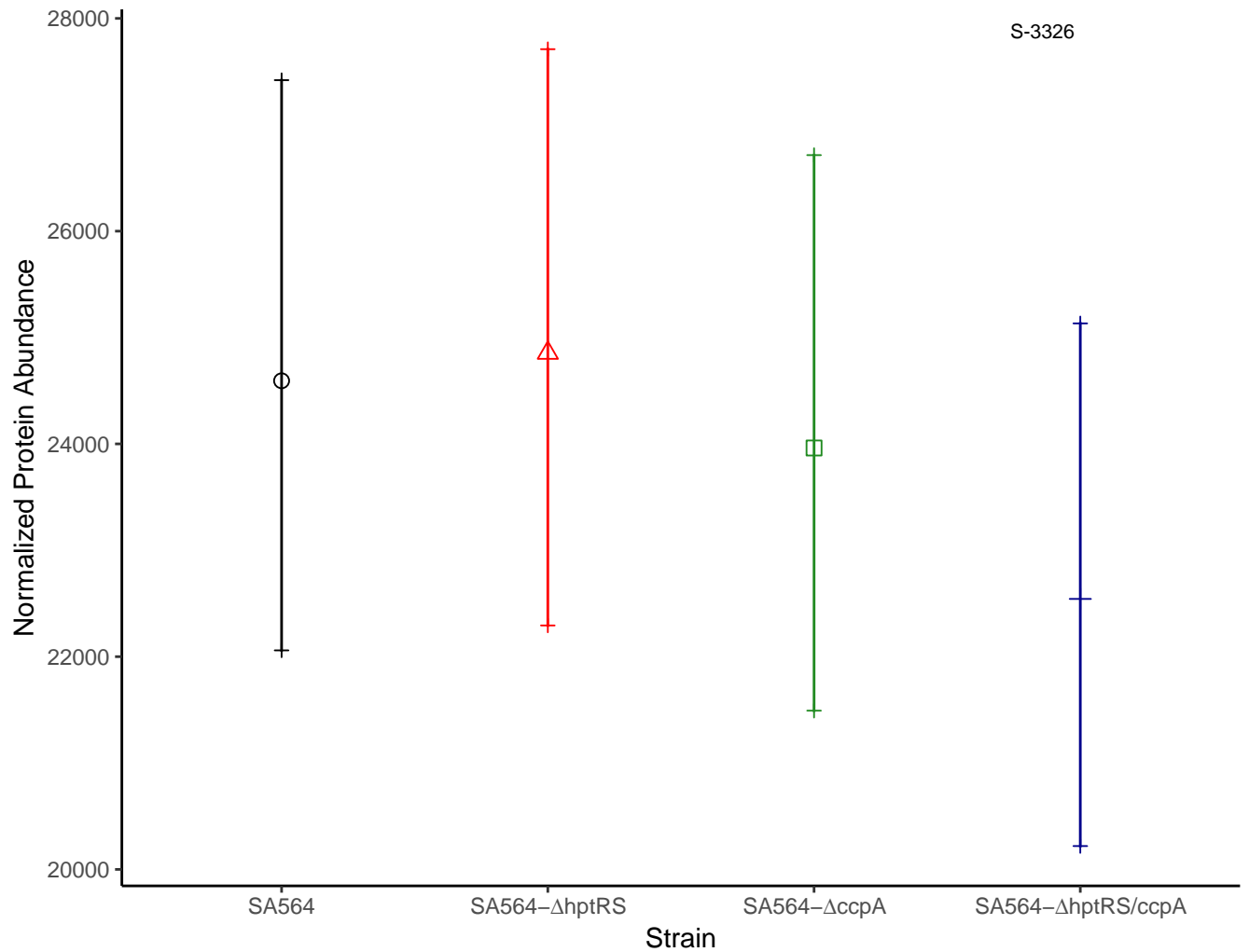
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL2\_STAAM



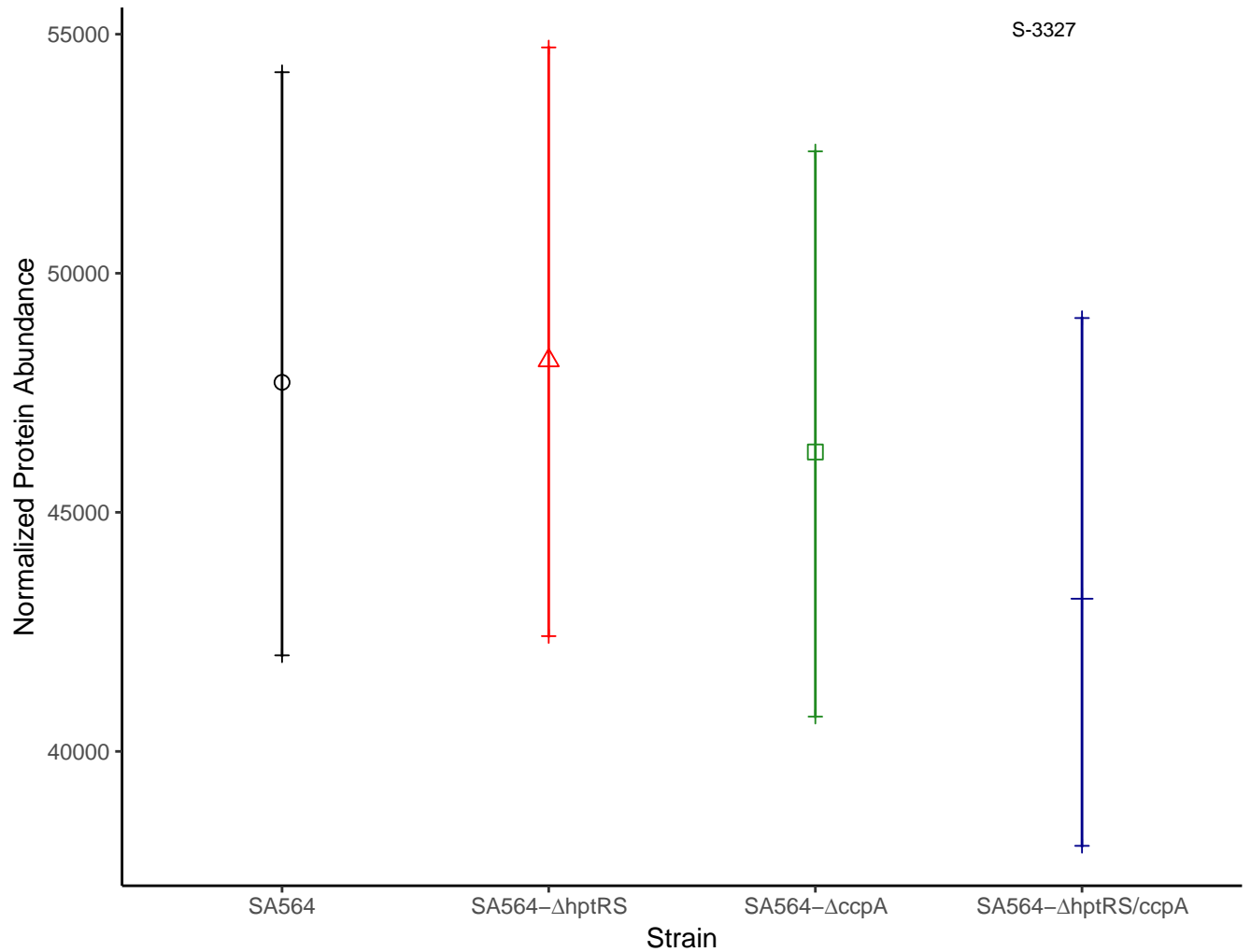
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL20\_STAAM



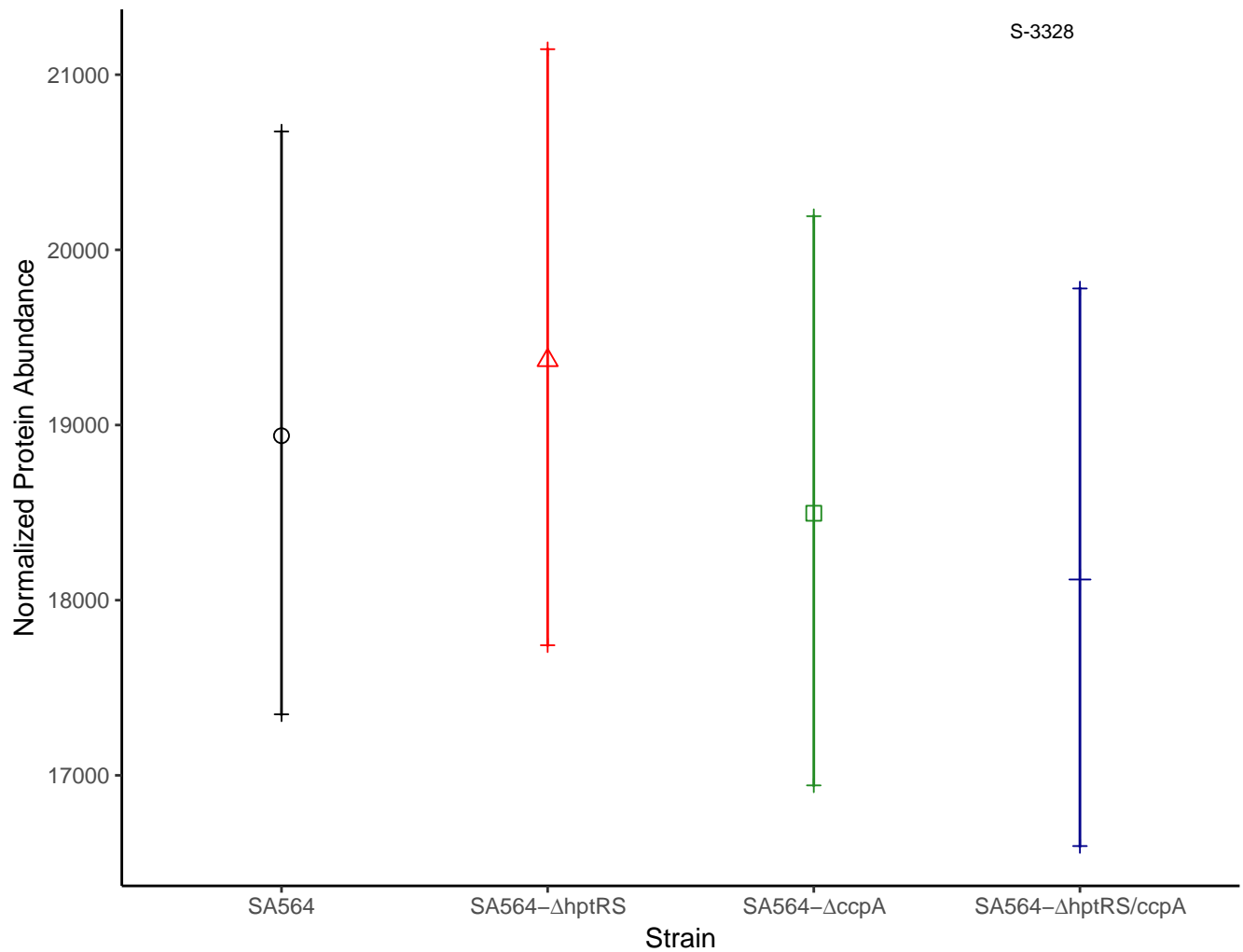
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL21\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL22\_STAAM

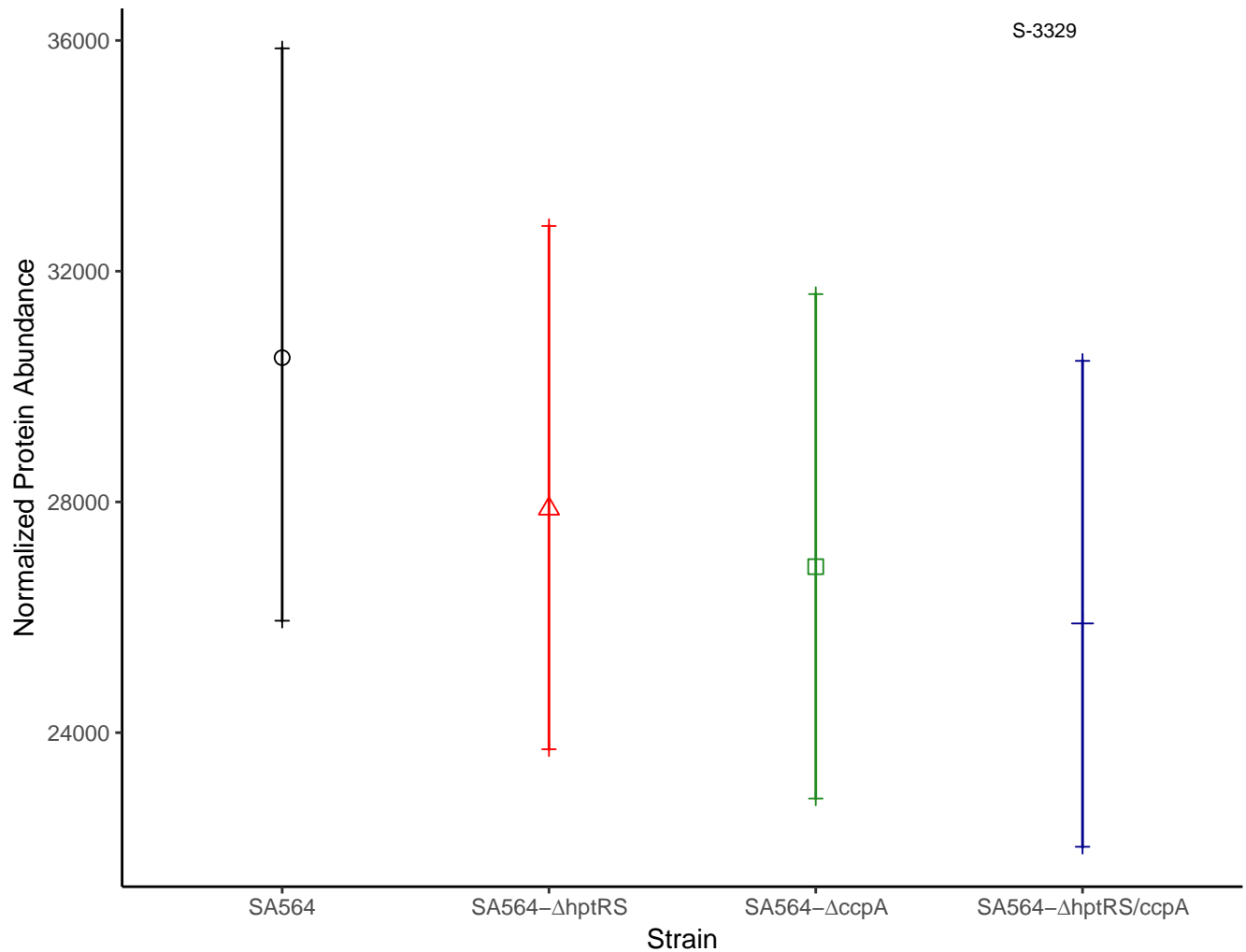


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



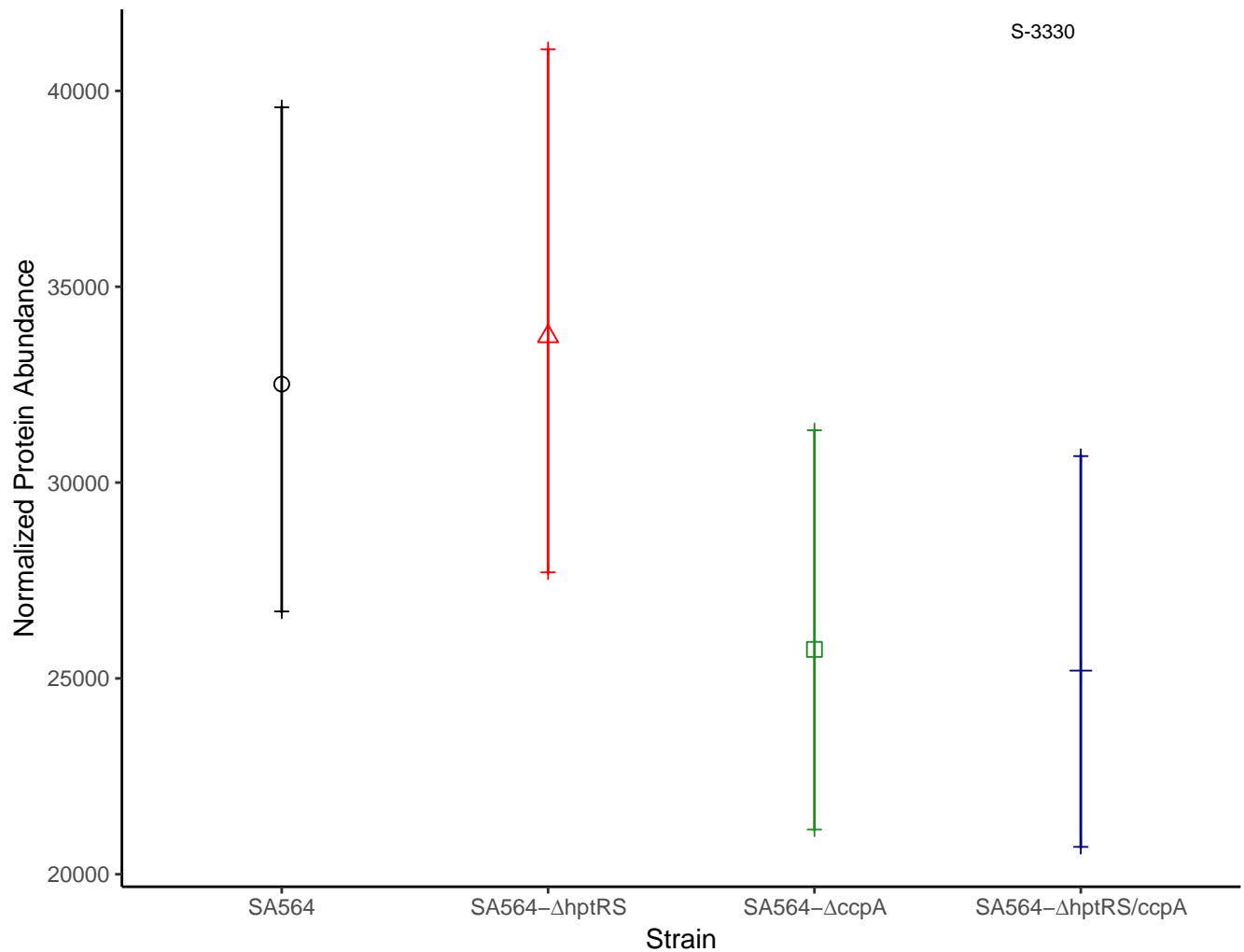
# RL23\_STAAM

S-3329



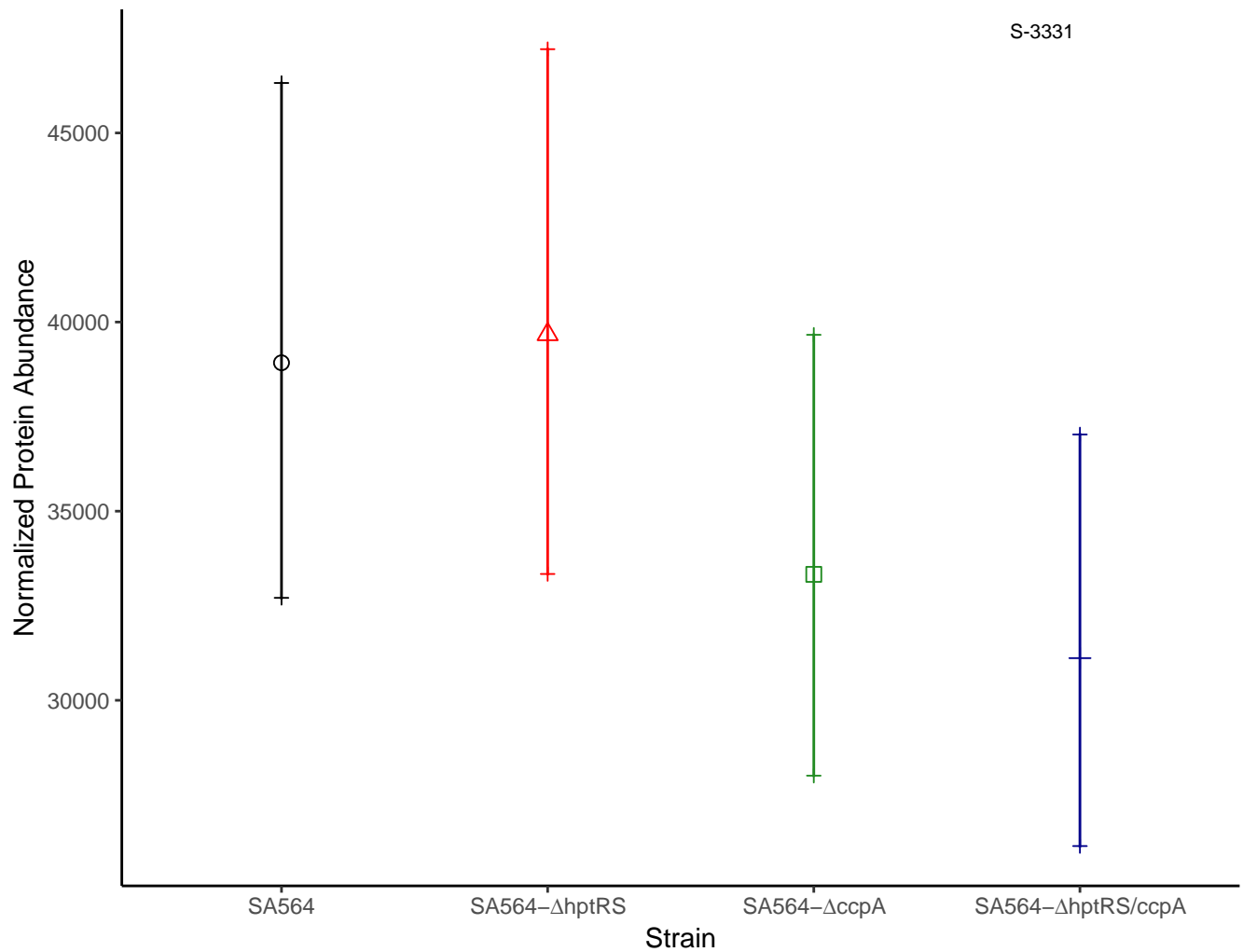
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL24\_STAAM



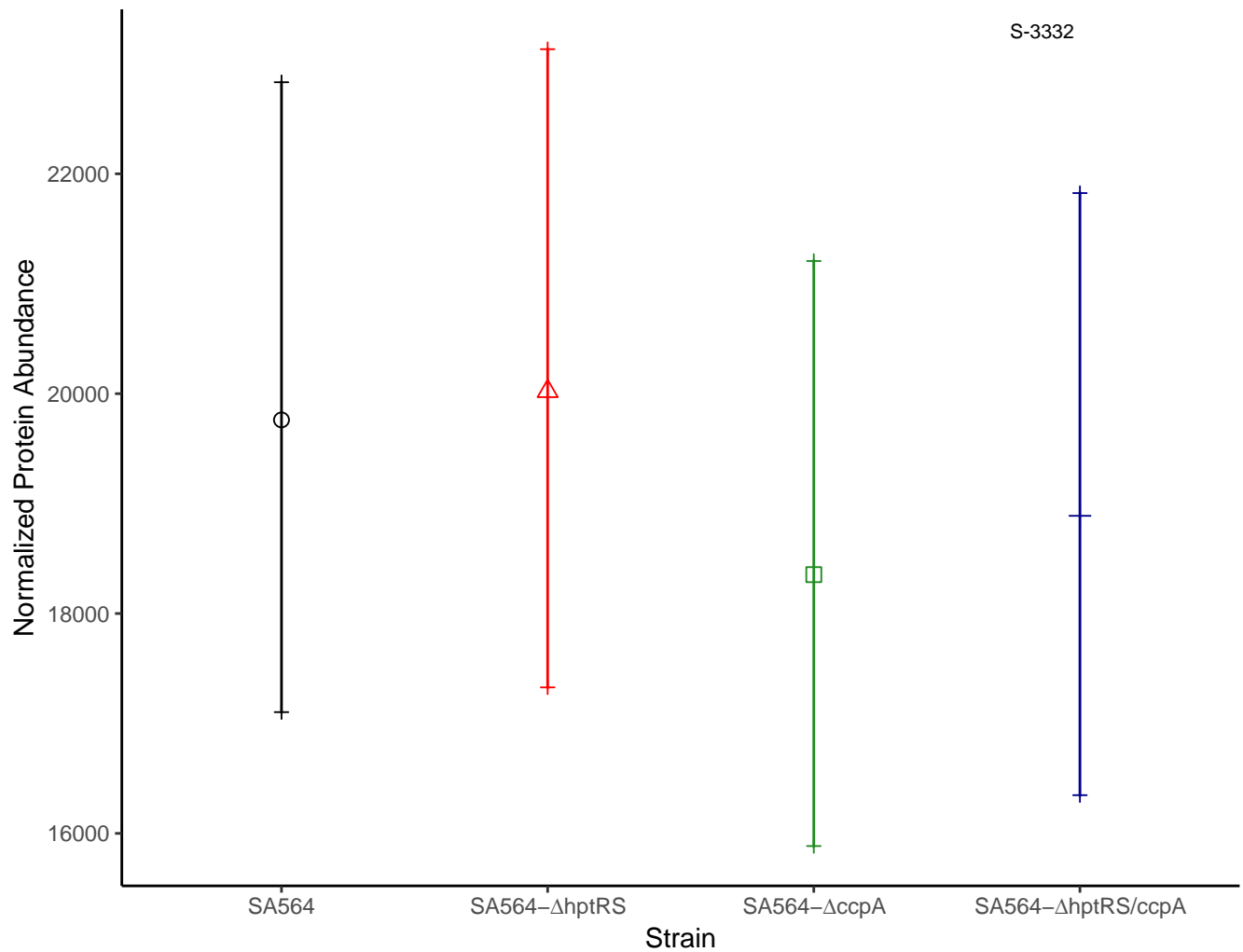
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL25\_STAAM



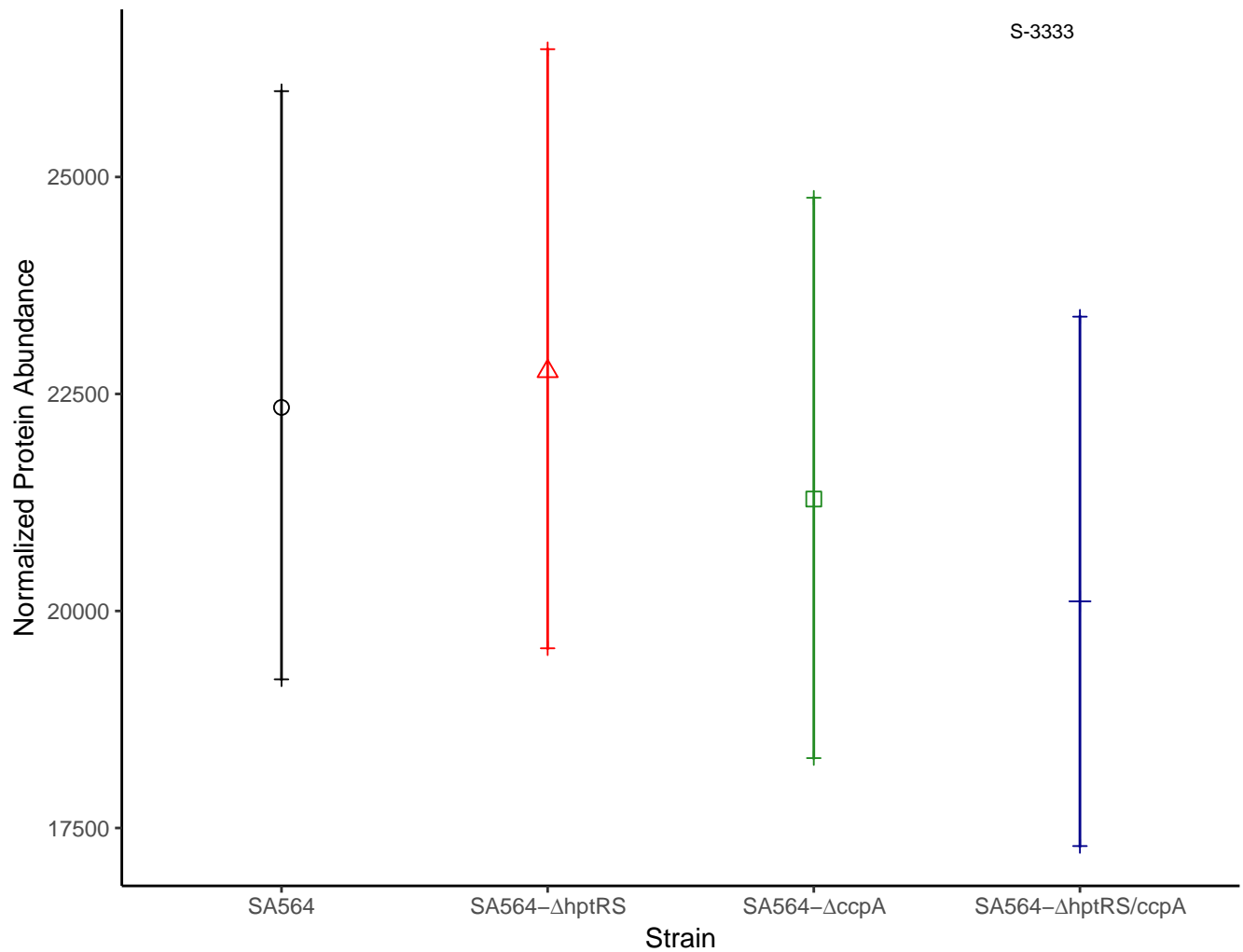
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL27\_STAAM



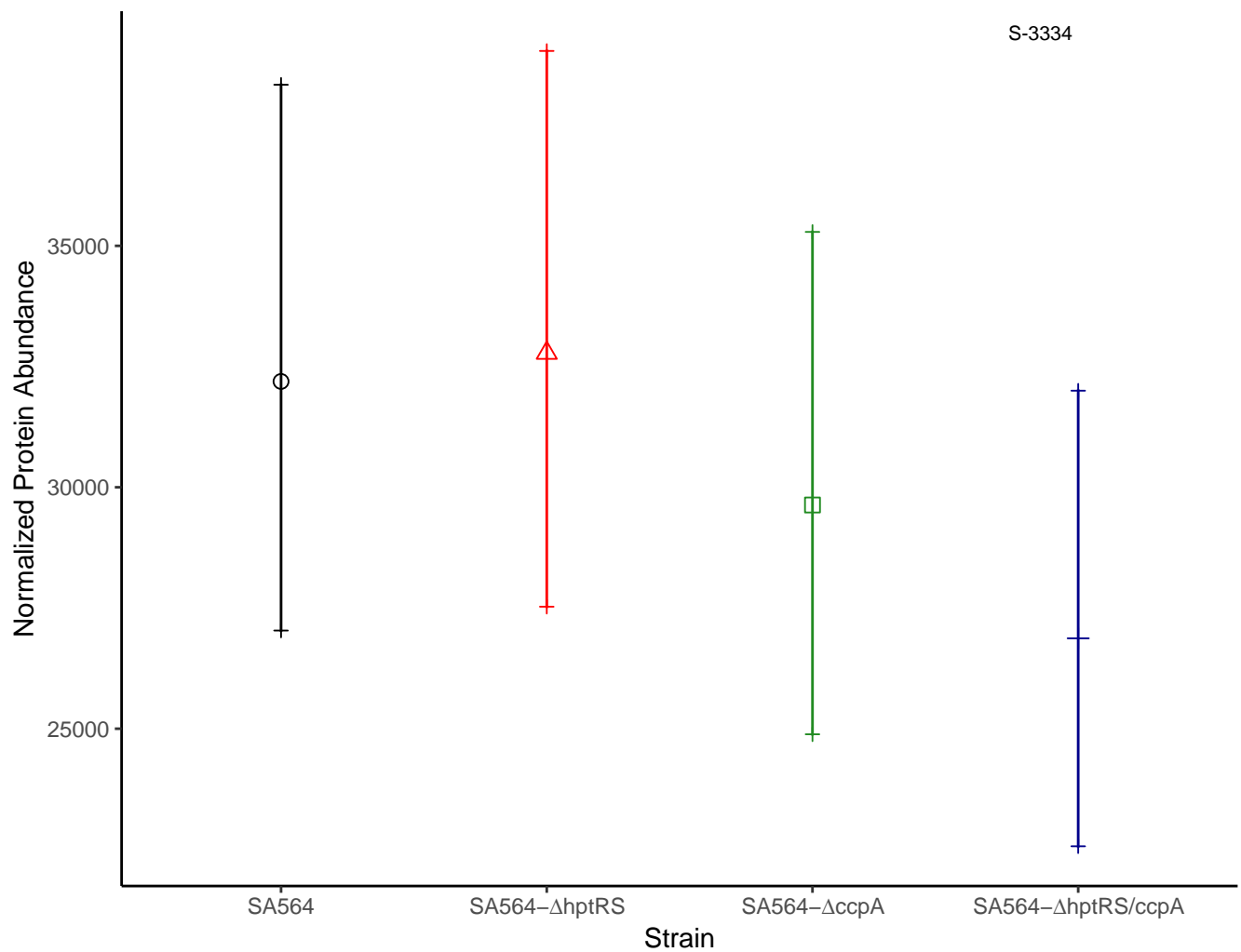
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL28\_STAAM



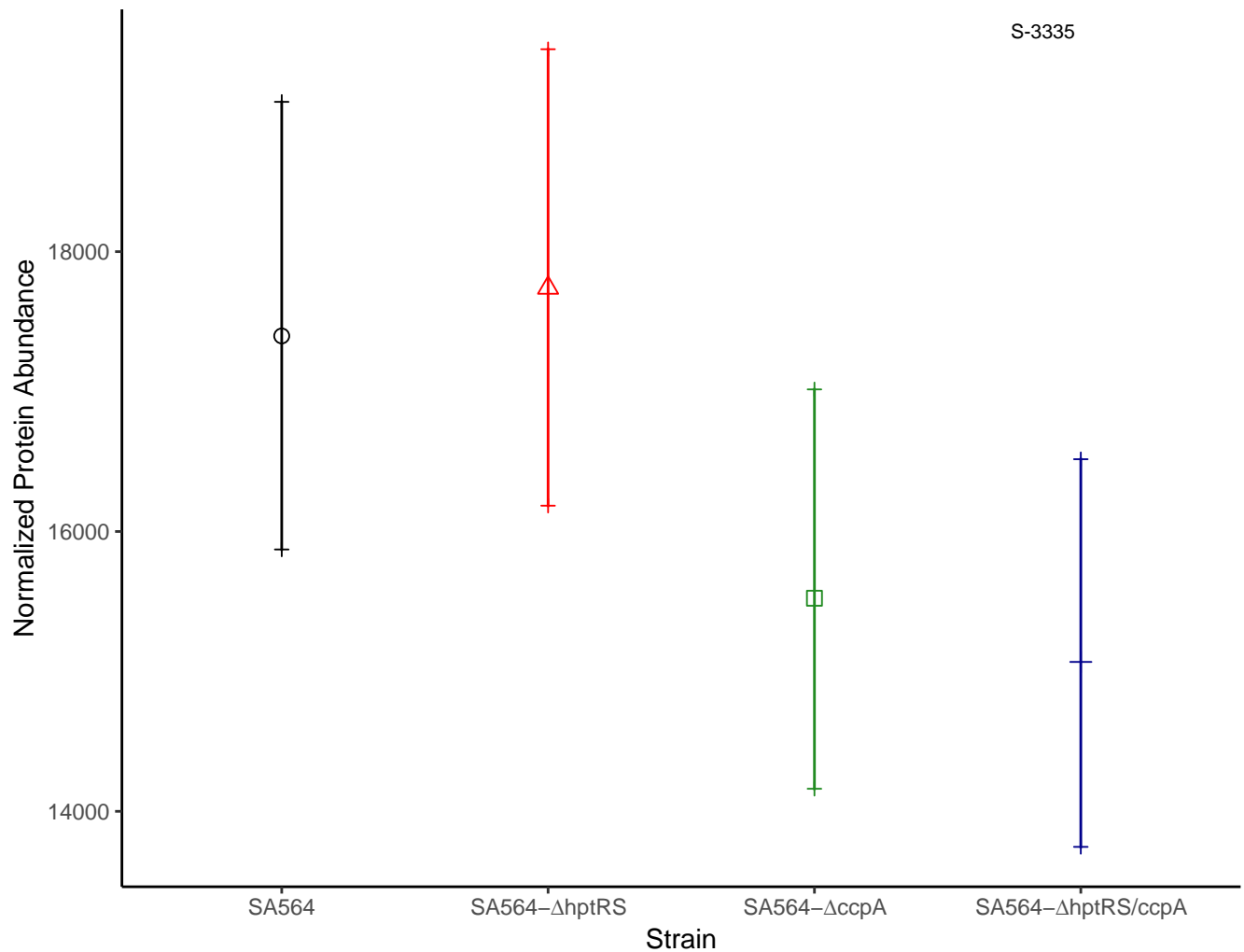
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL29\_STAAM



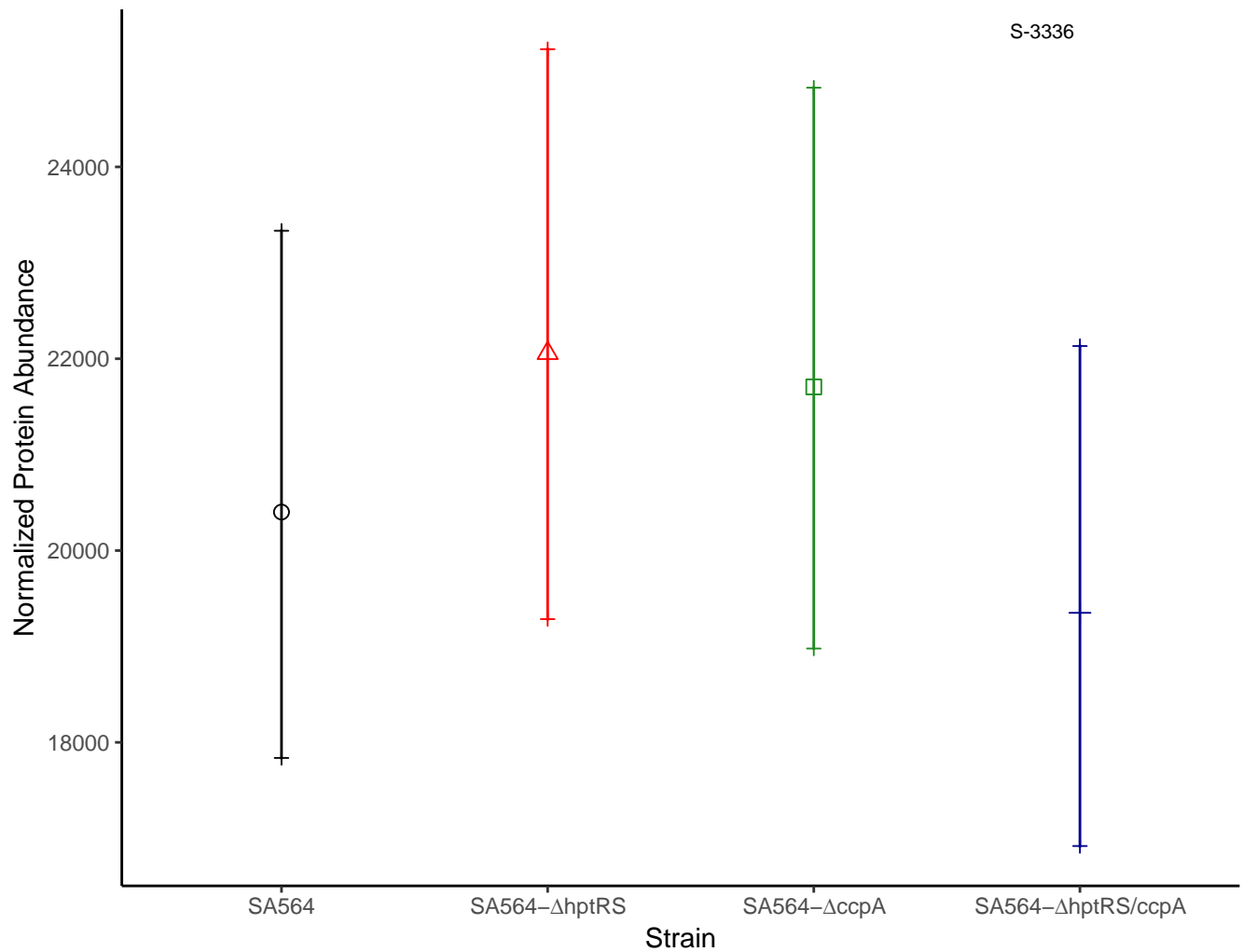
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL3\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

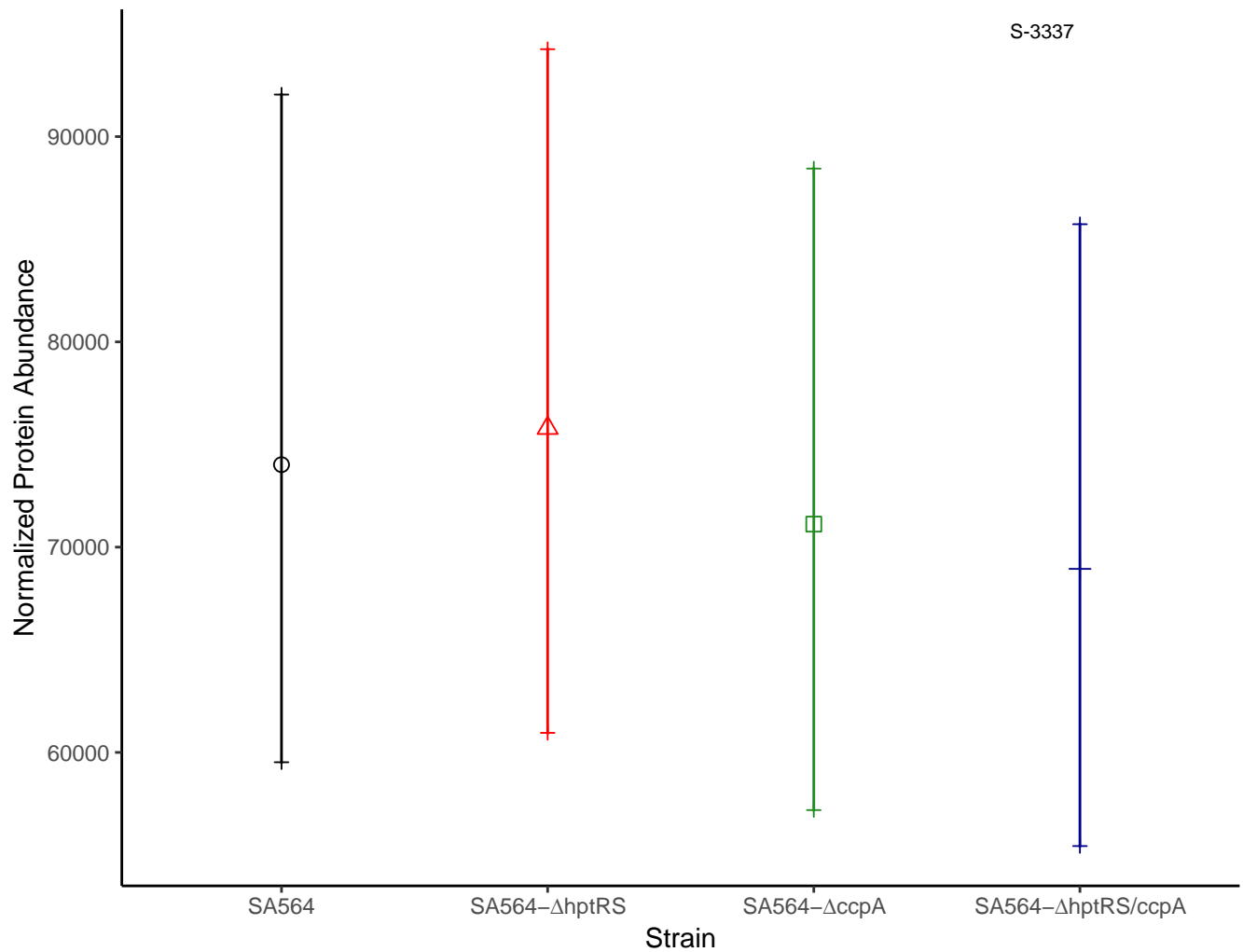
# RL30\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

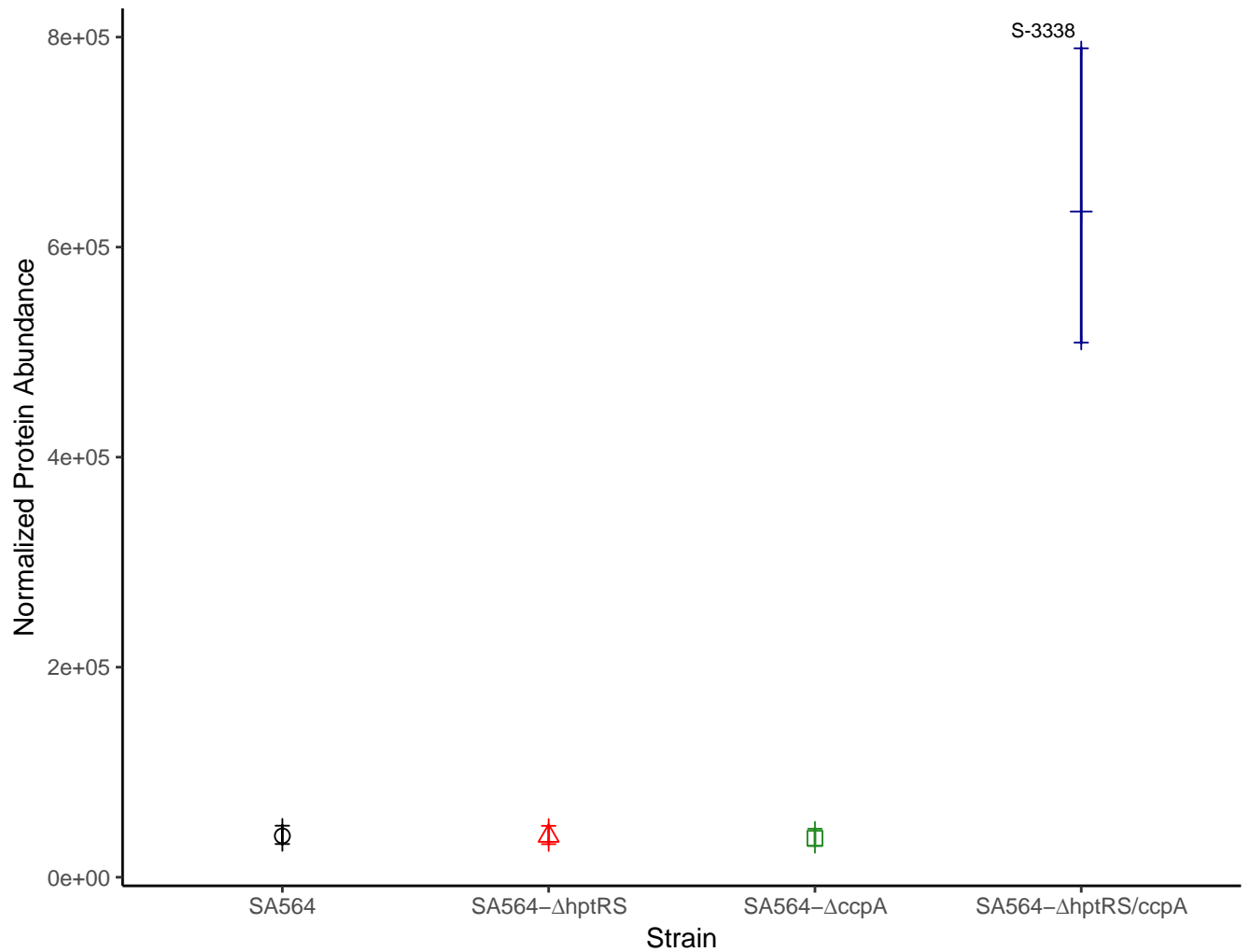


# RL31B\_STAAM



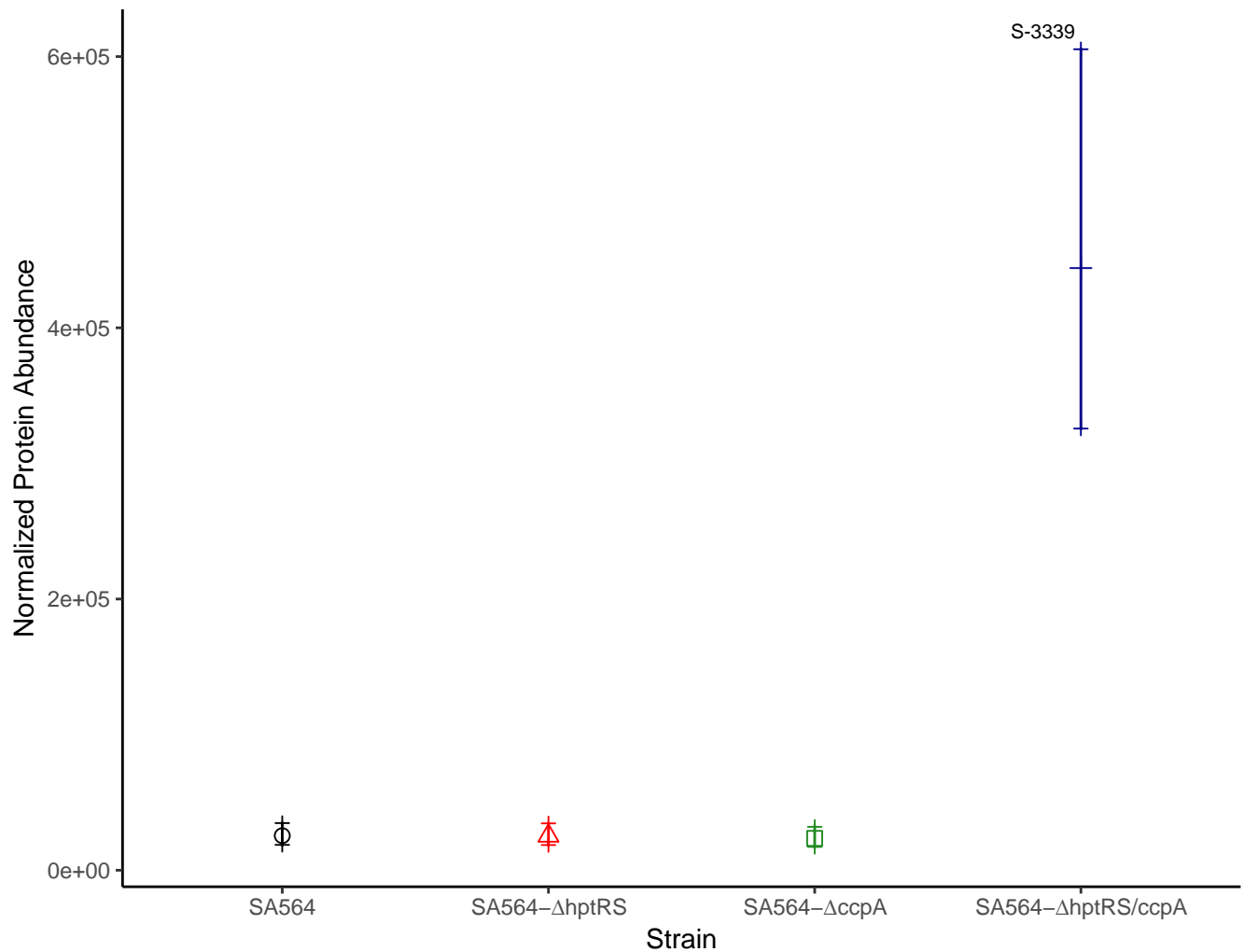
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL32\_STAAM



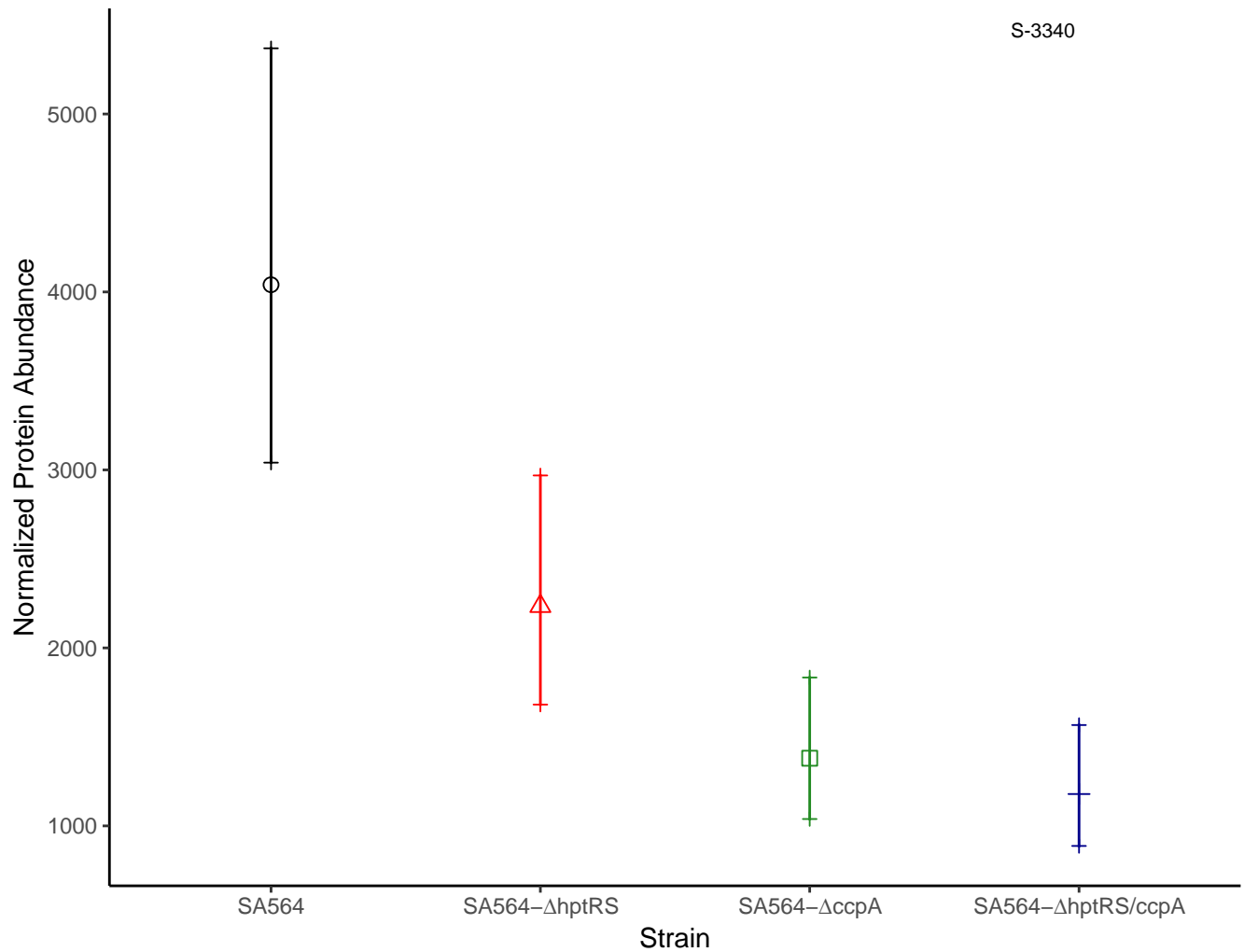
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# RL331\_STAAM



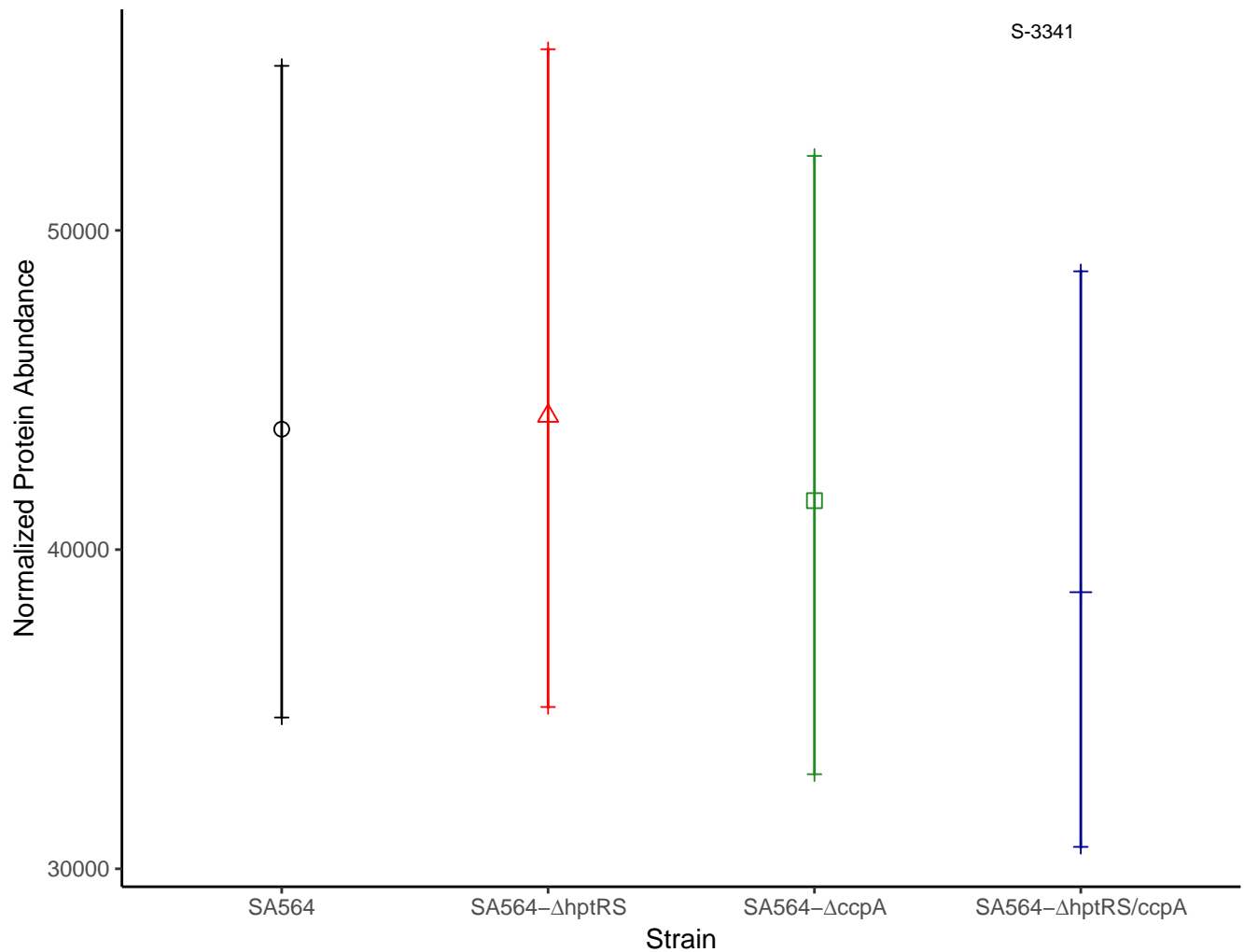
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# RL332\_STAAM



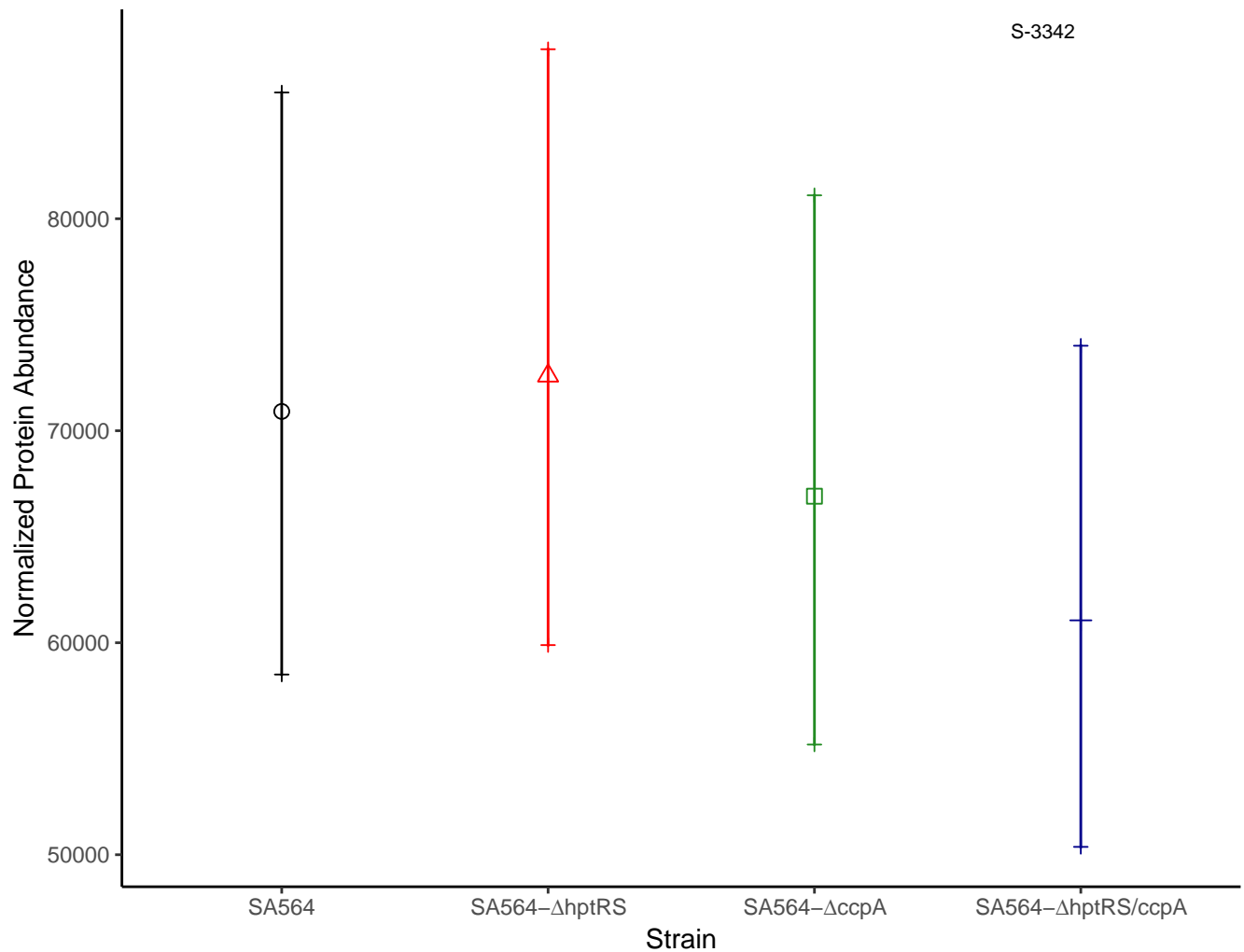
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL35\_STAAM



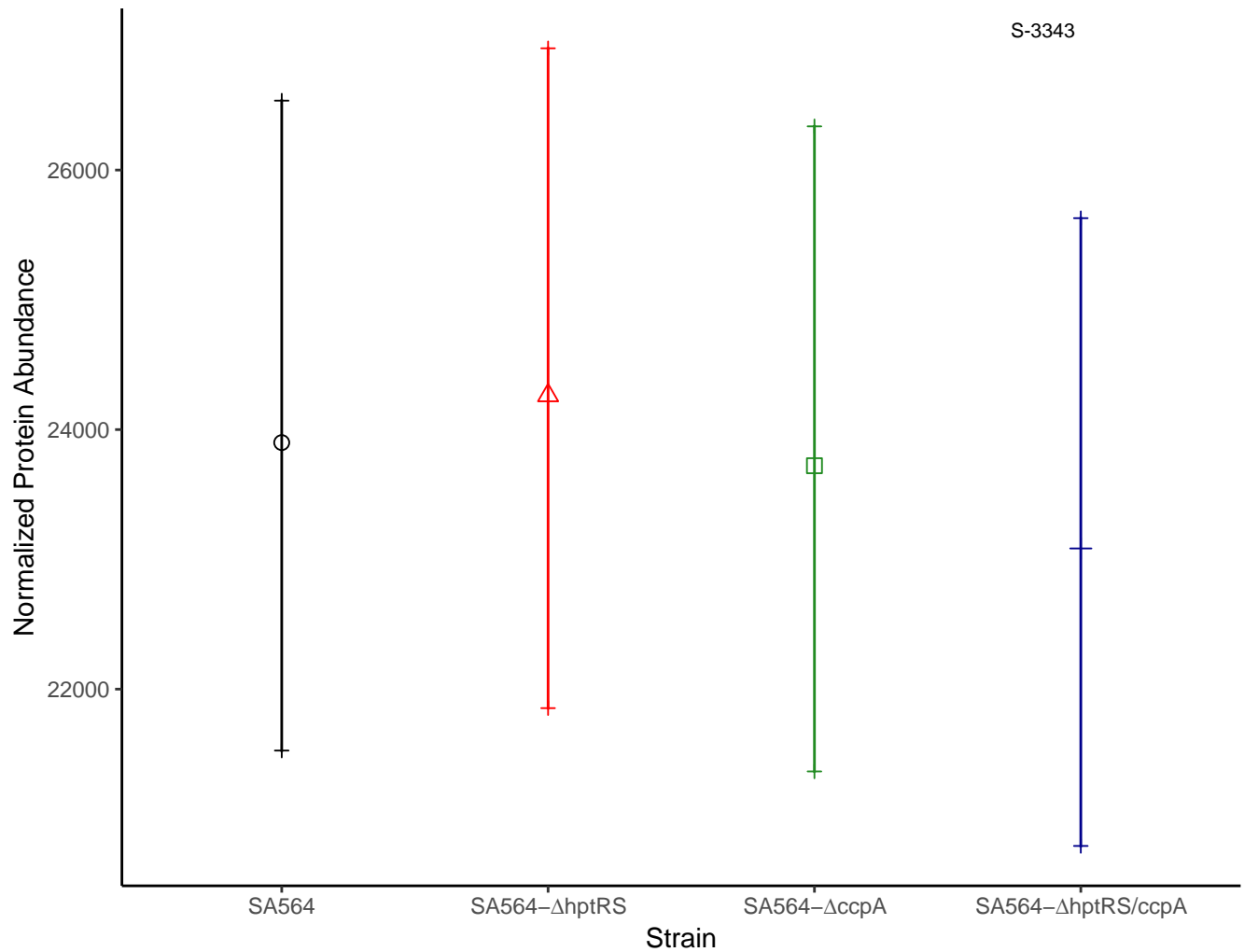
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL36\_STAAM



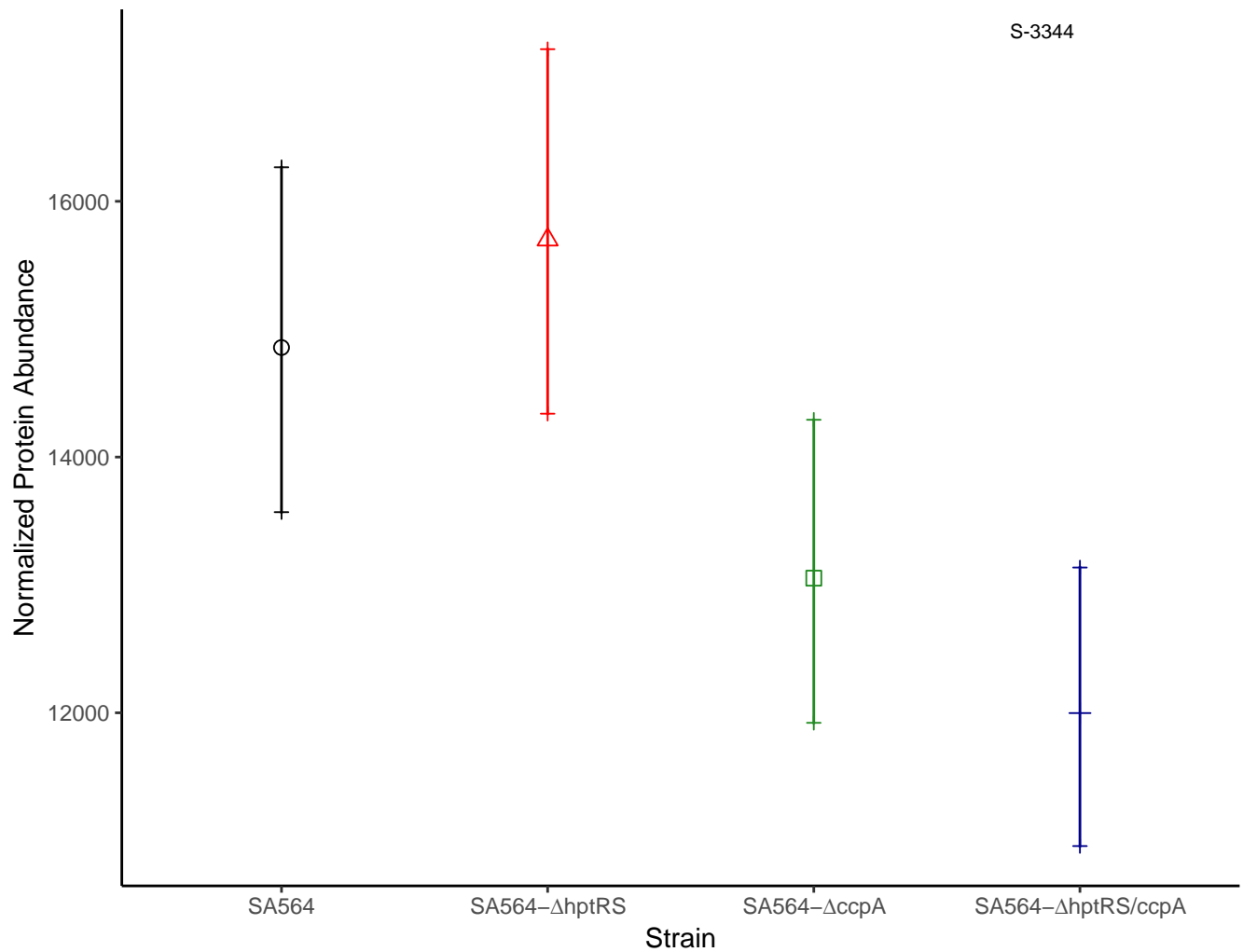
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL4\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

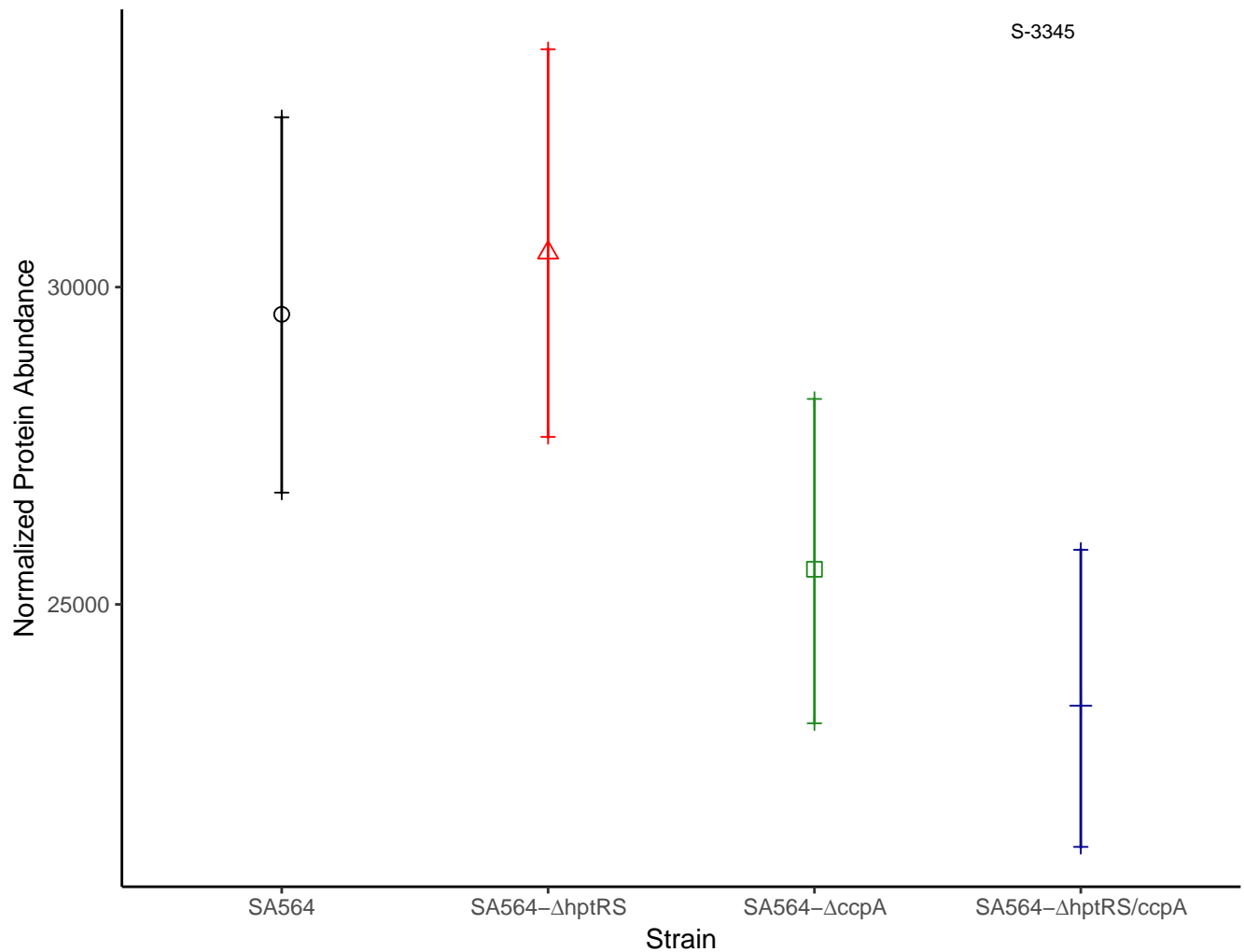
# RL5\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

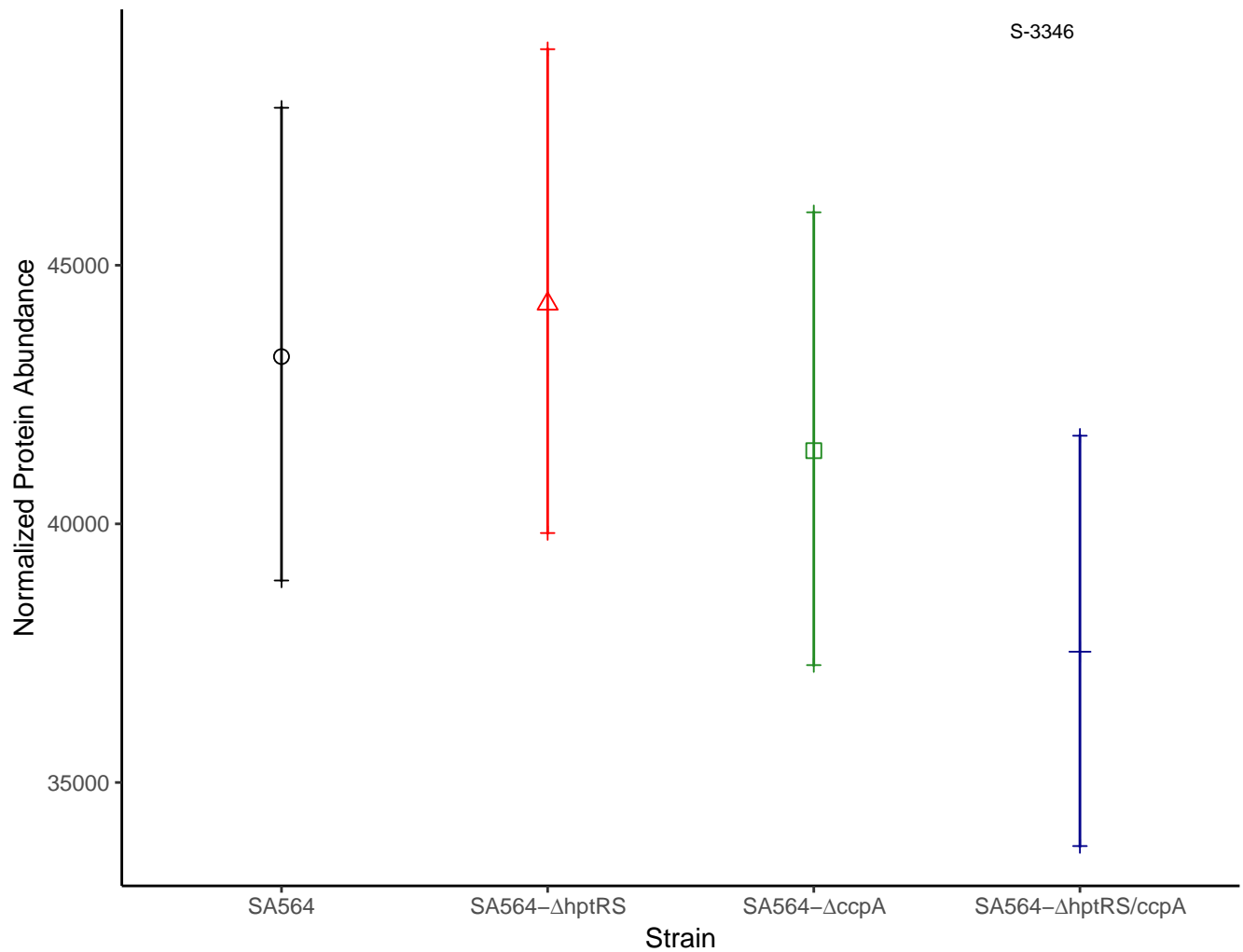


# RL6\_STAAM



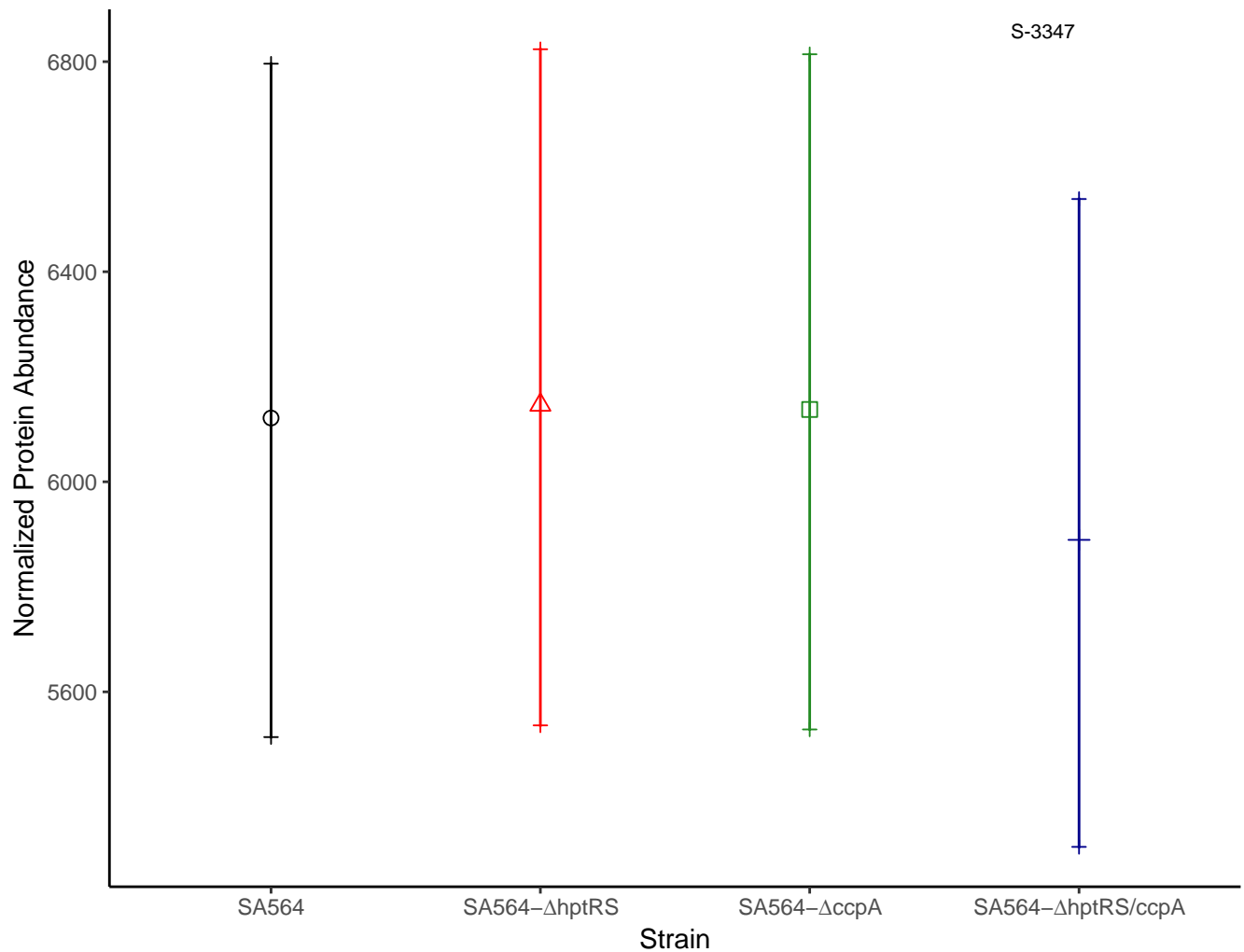
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RL7\_STAAM



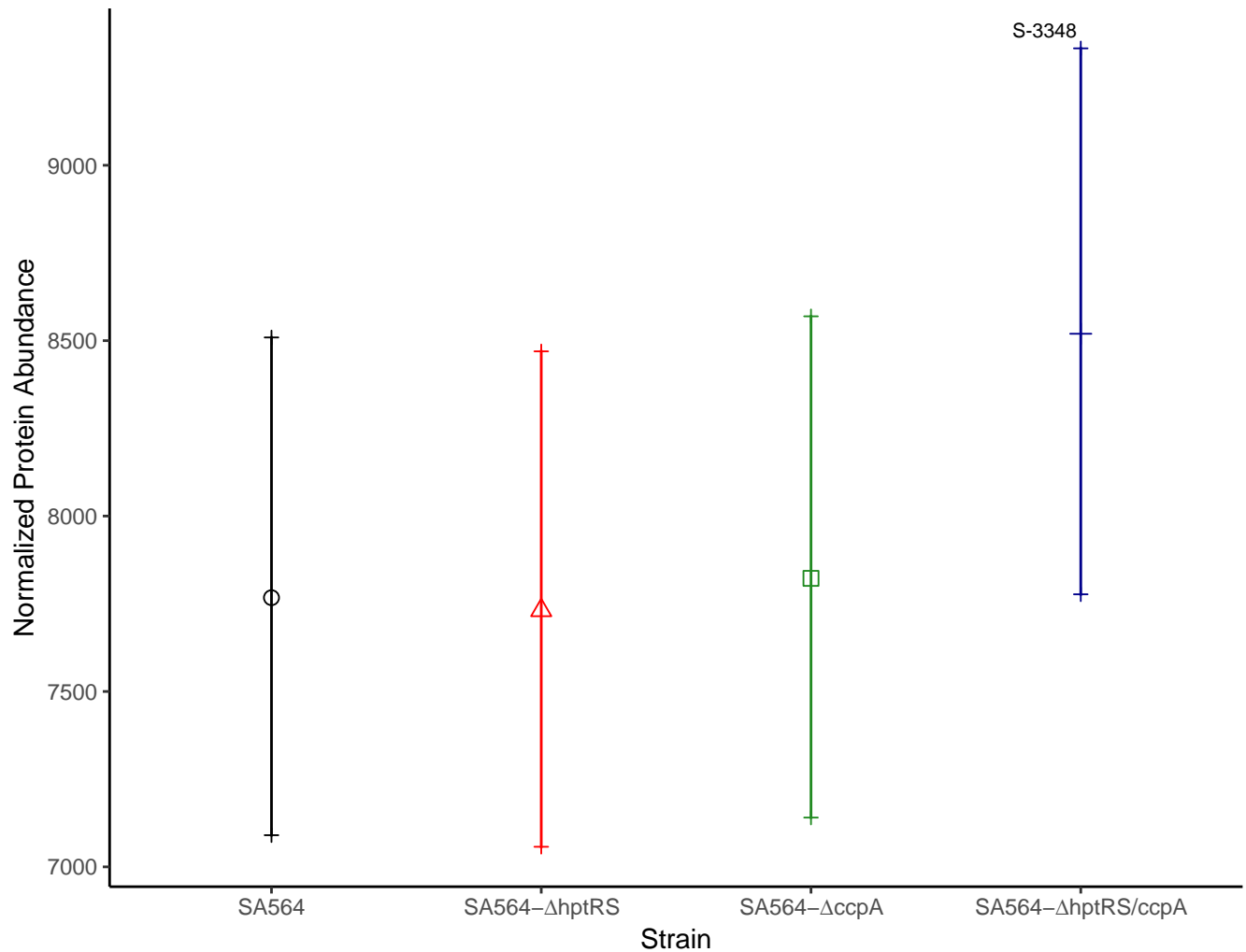
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RL9\_STAAM



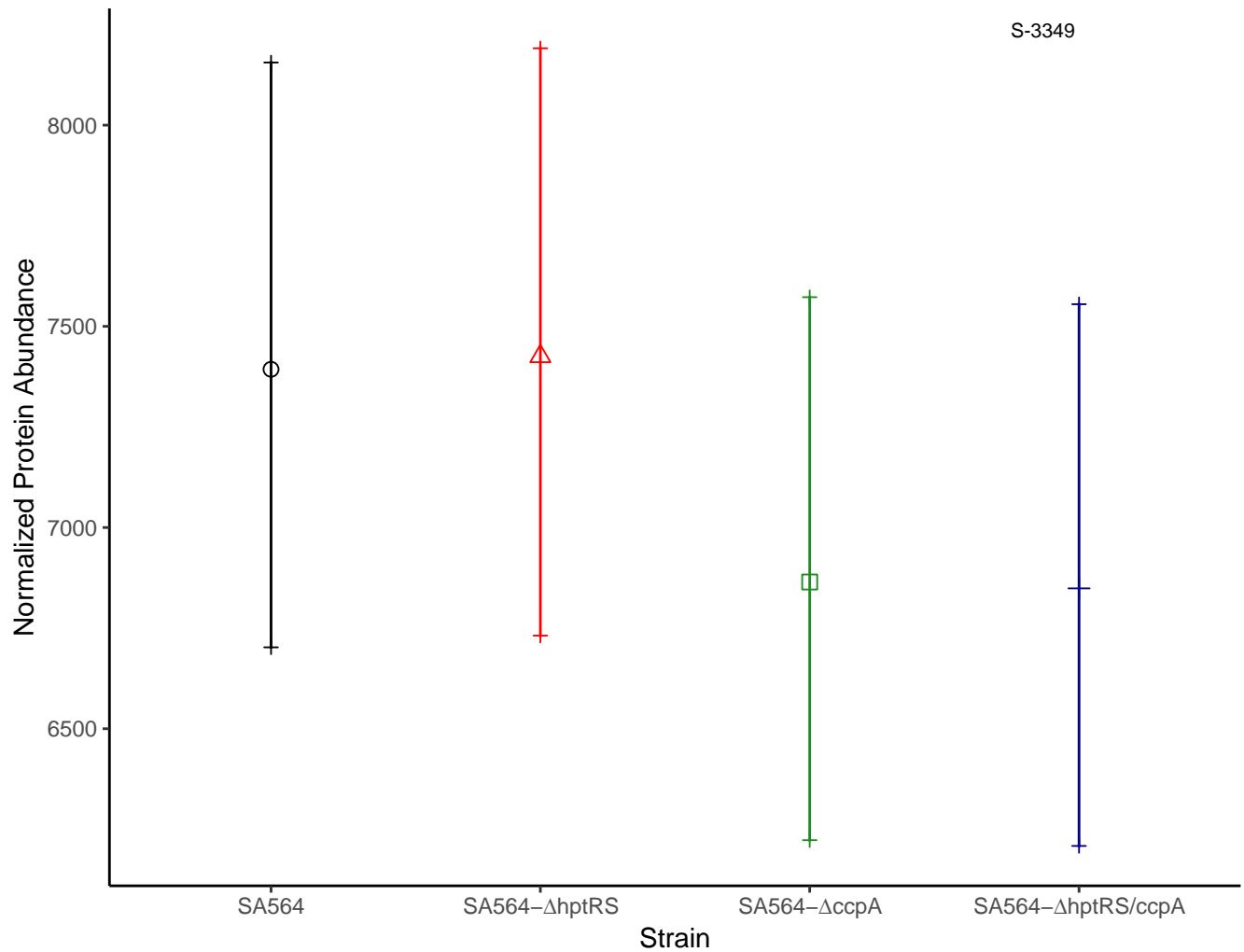
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RNJ1\_STAAM



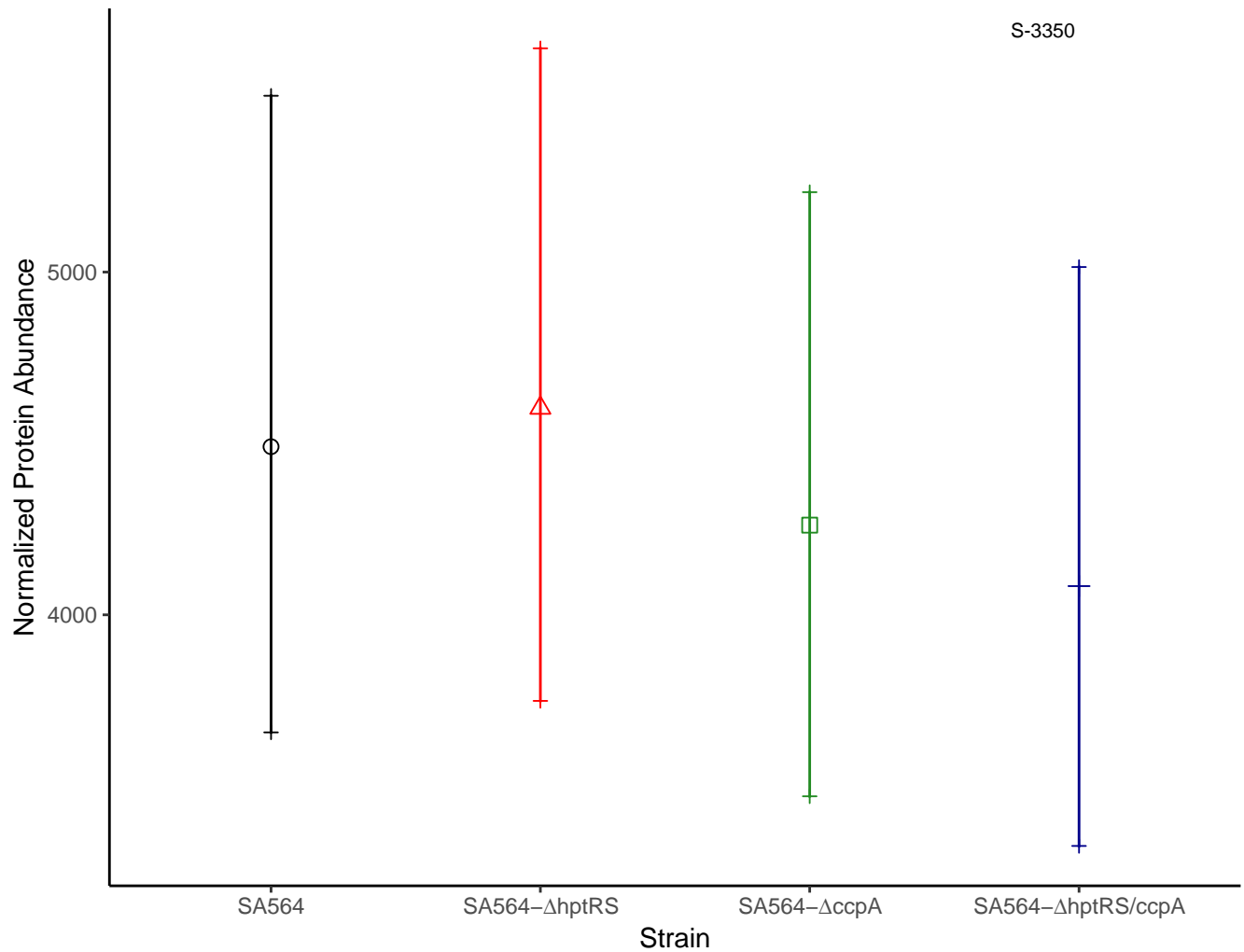
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RNJ2\_STAAM



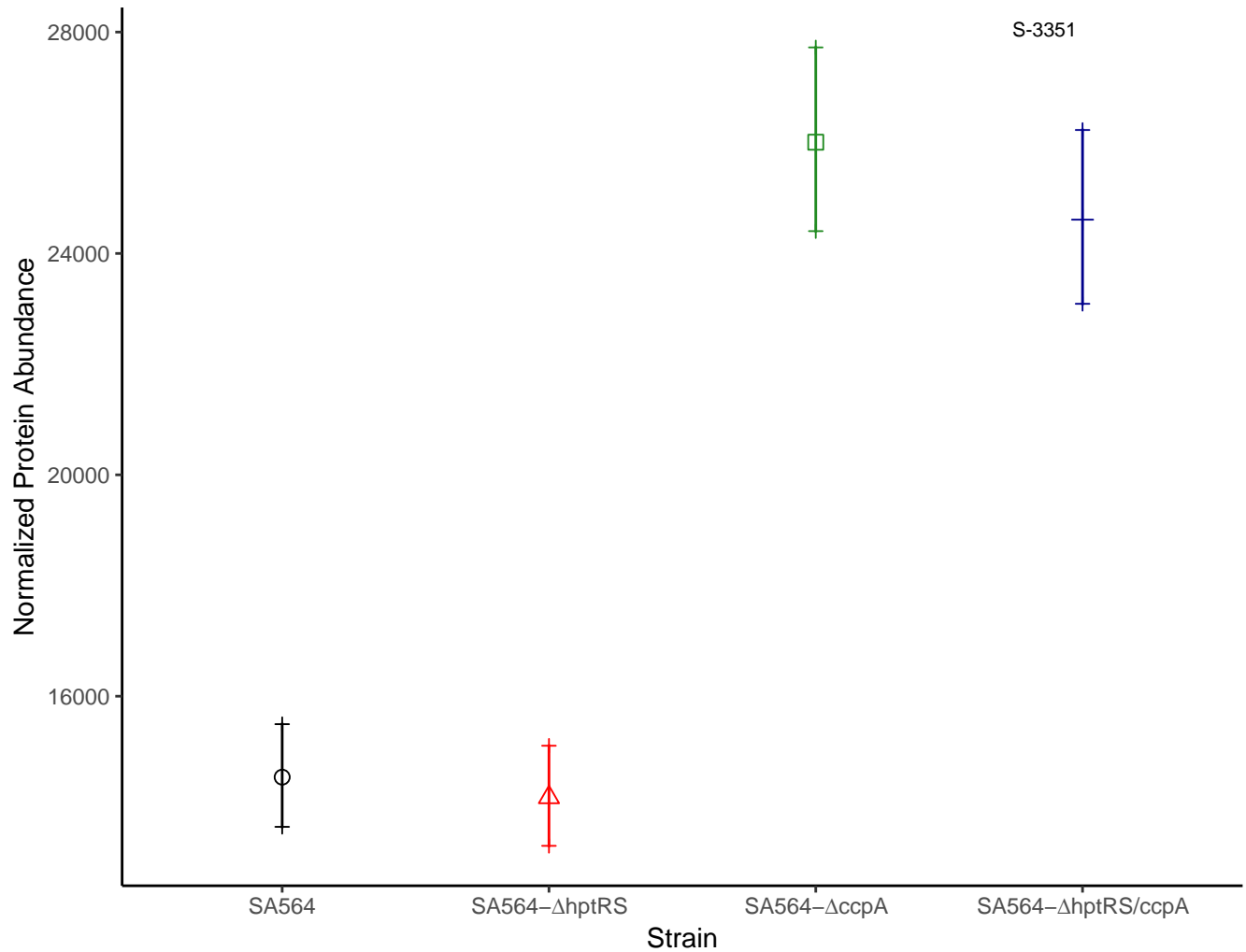
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RNY\_STAAM



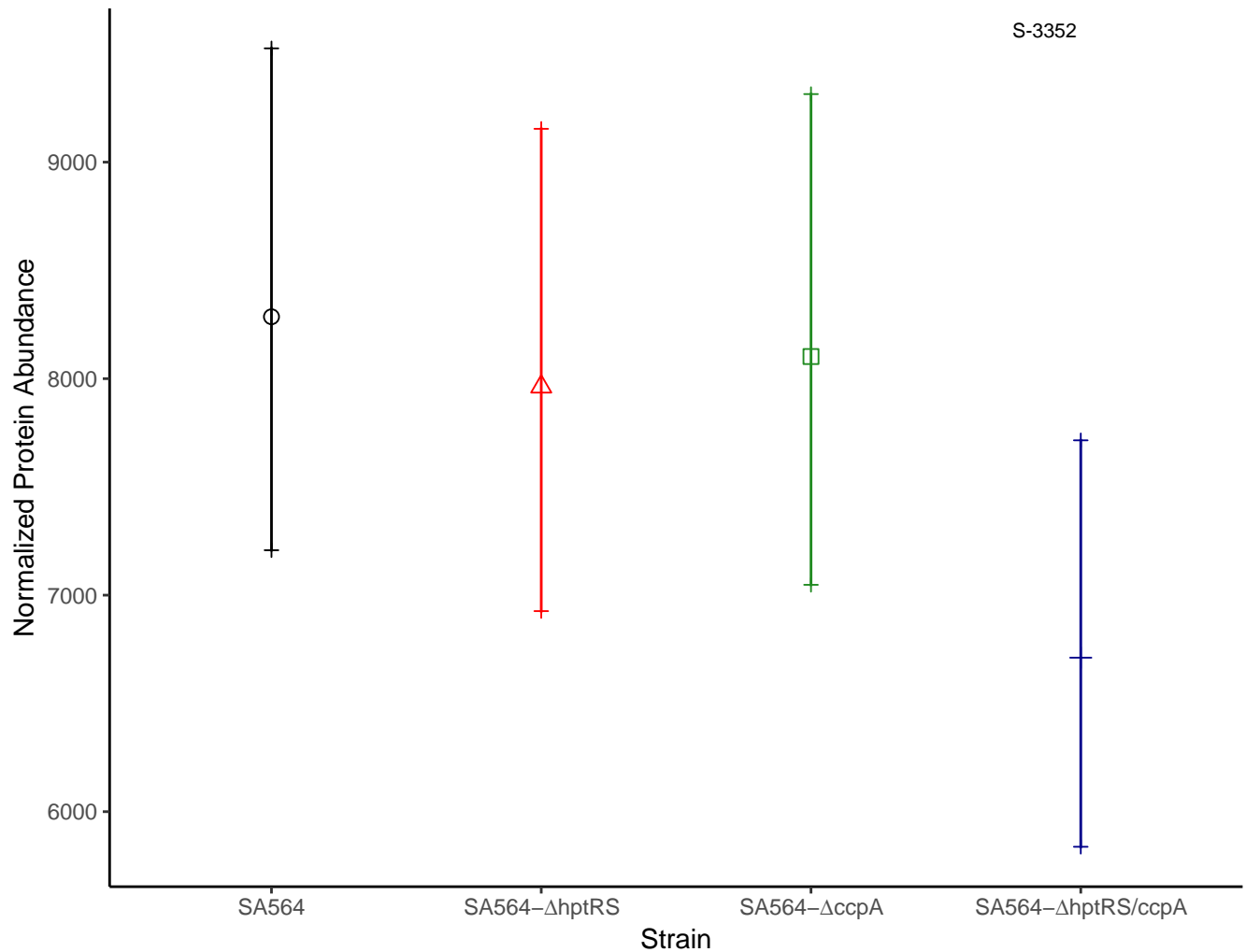
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# ROCA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

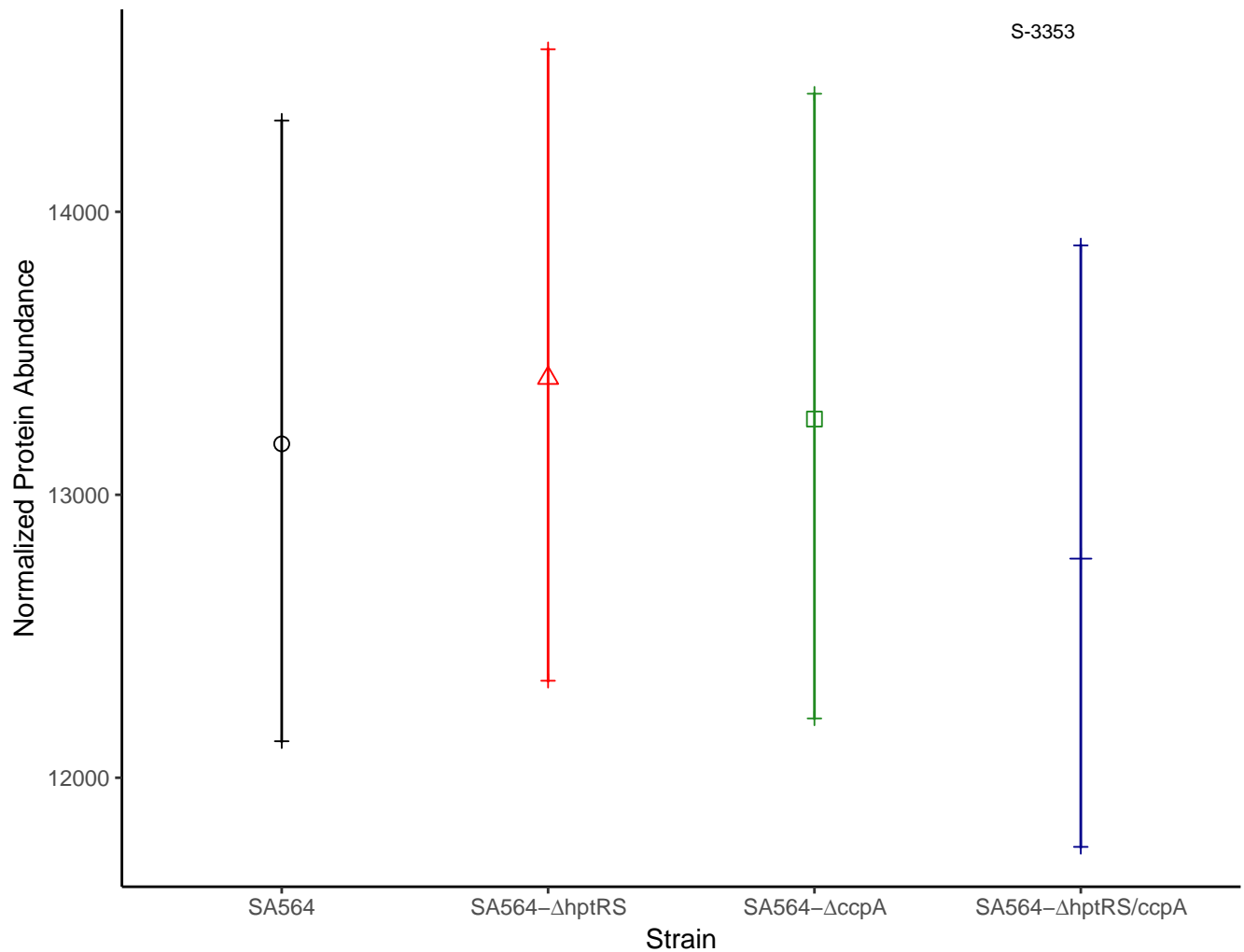
# ROT\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

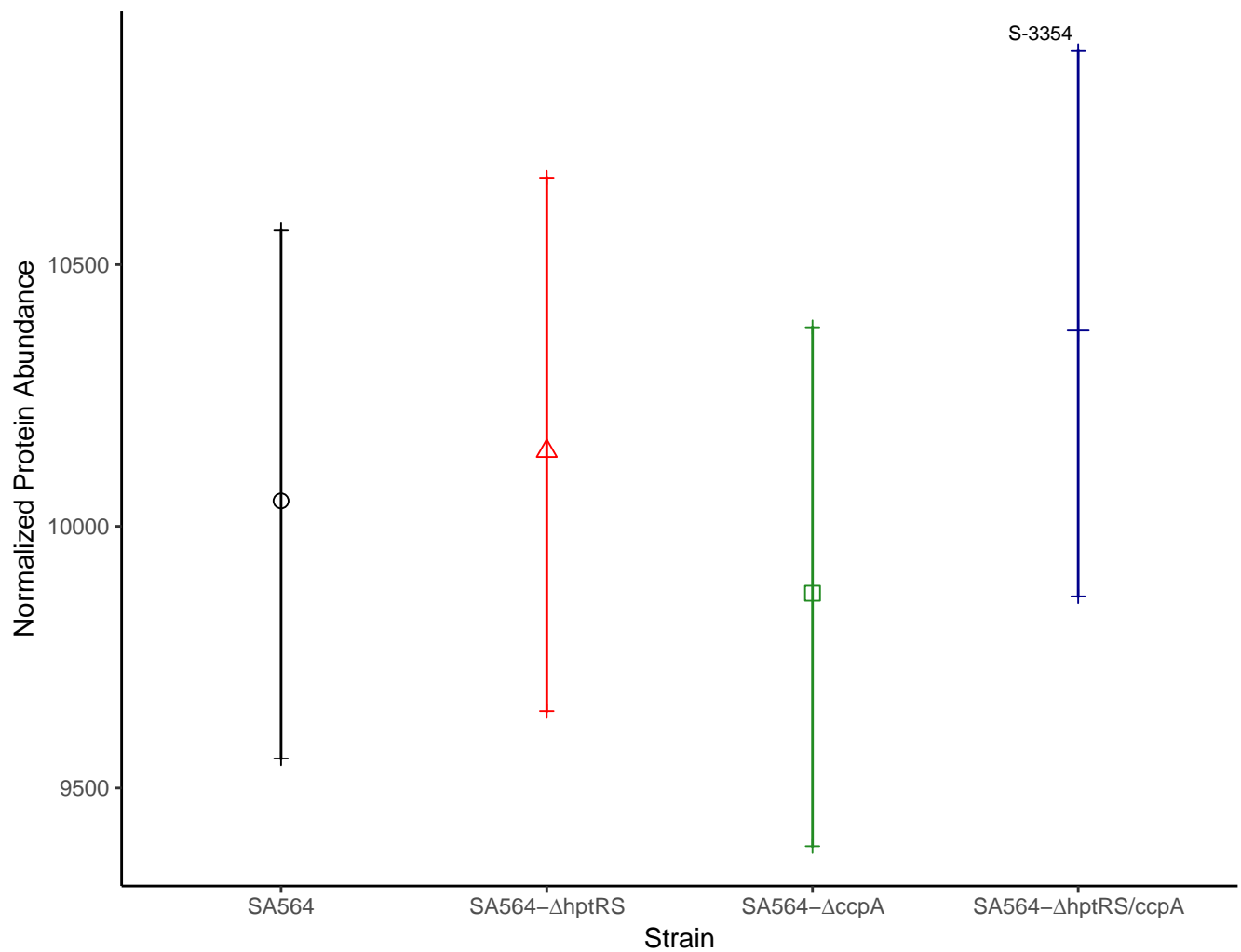


# RPOA\_STAAM



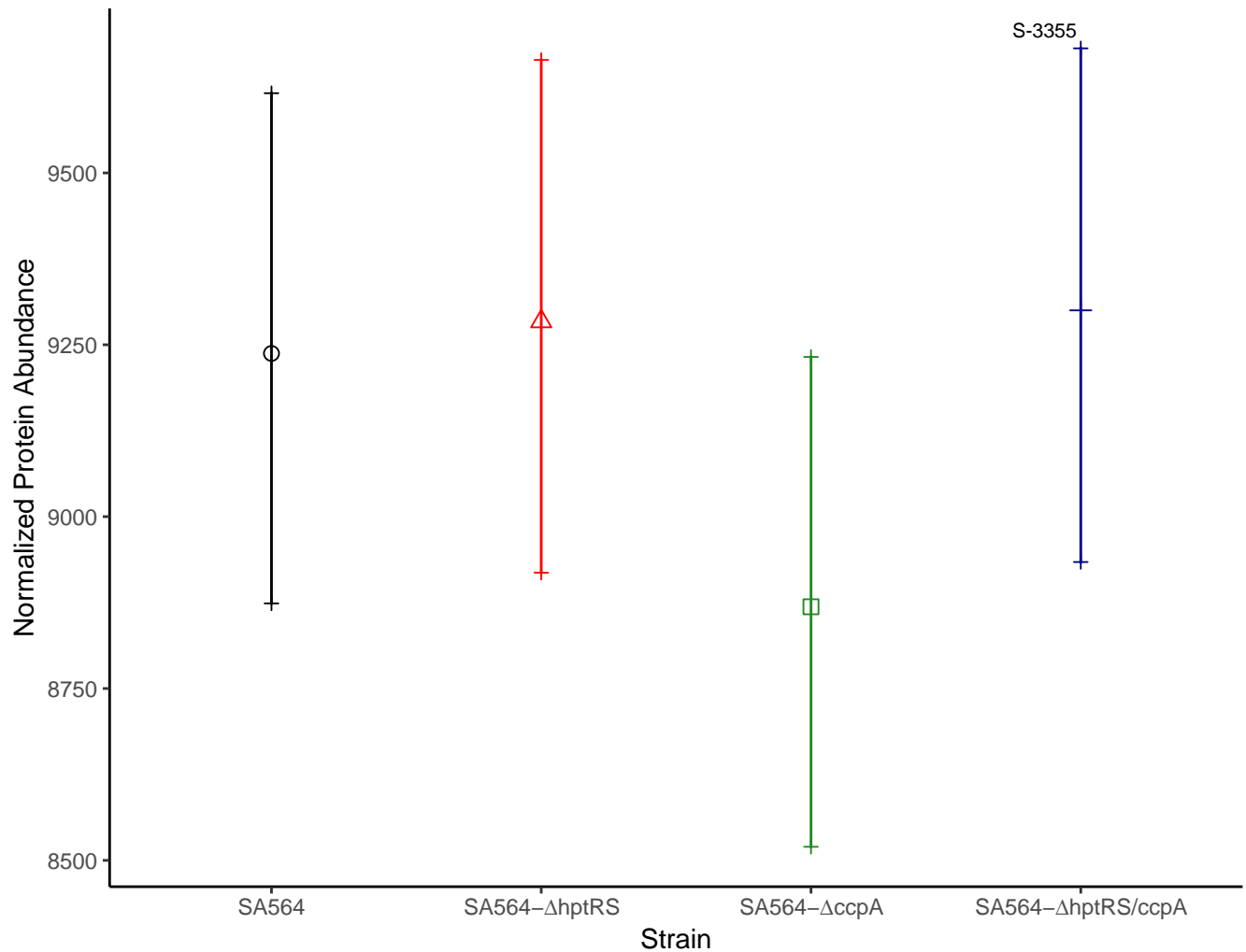
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOB\_STAAM



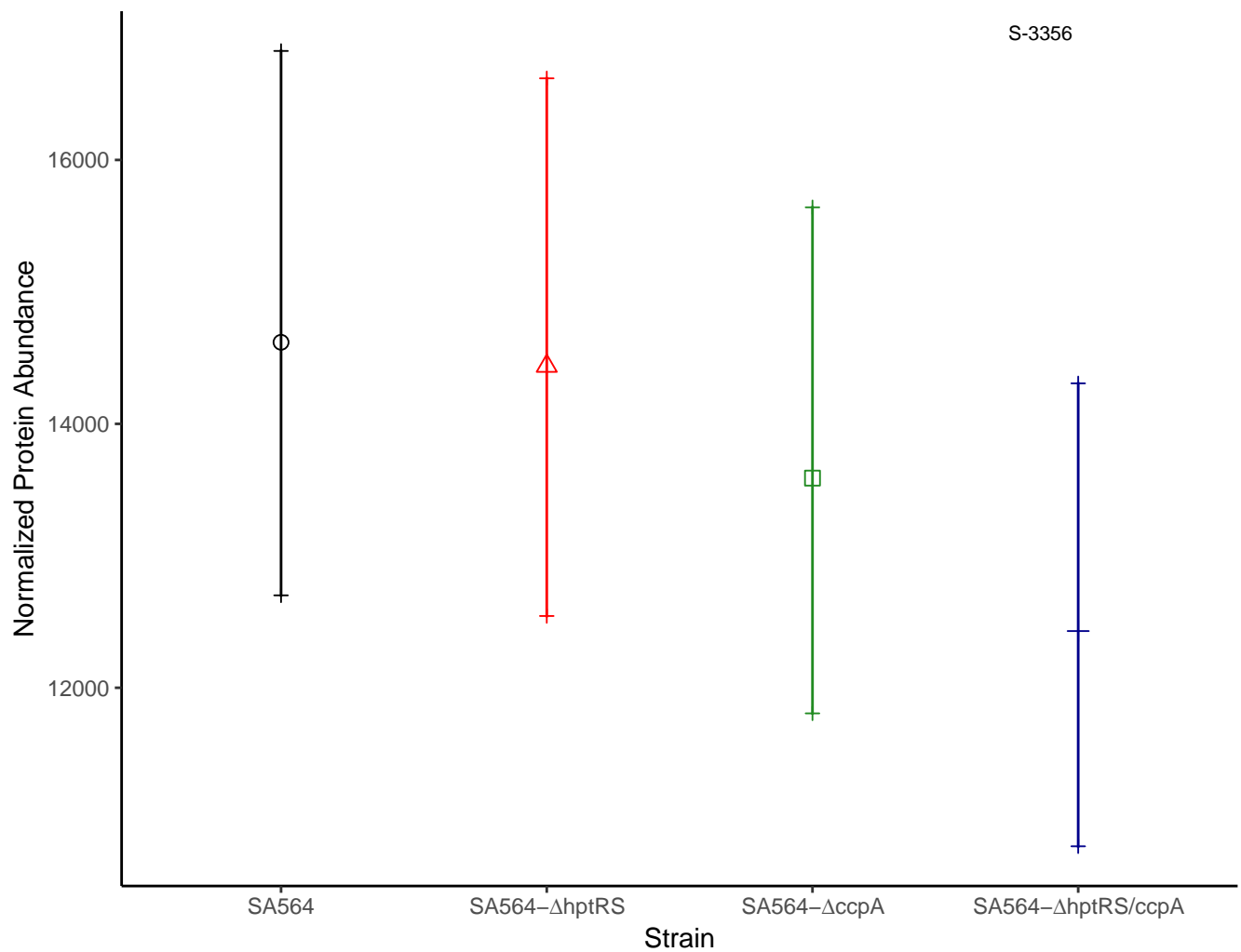
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RPOC\_STAAM



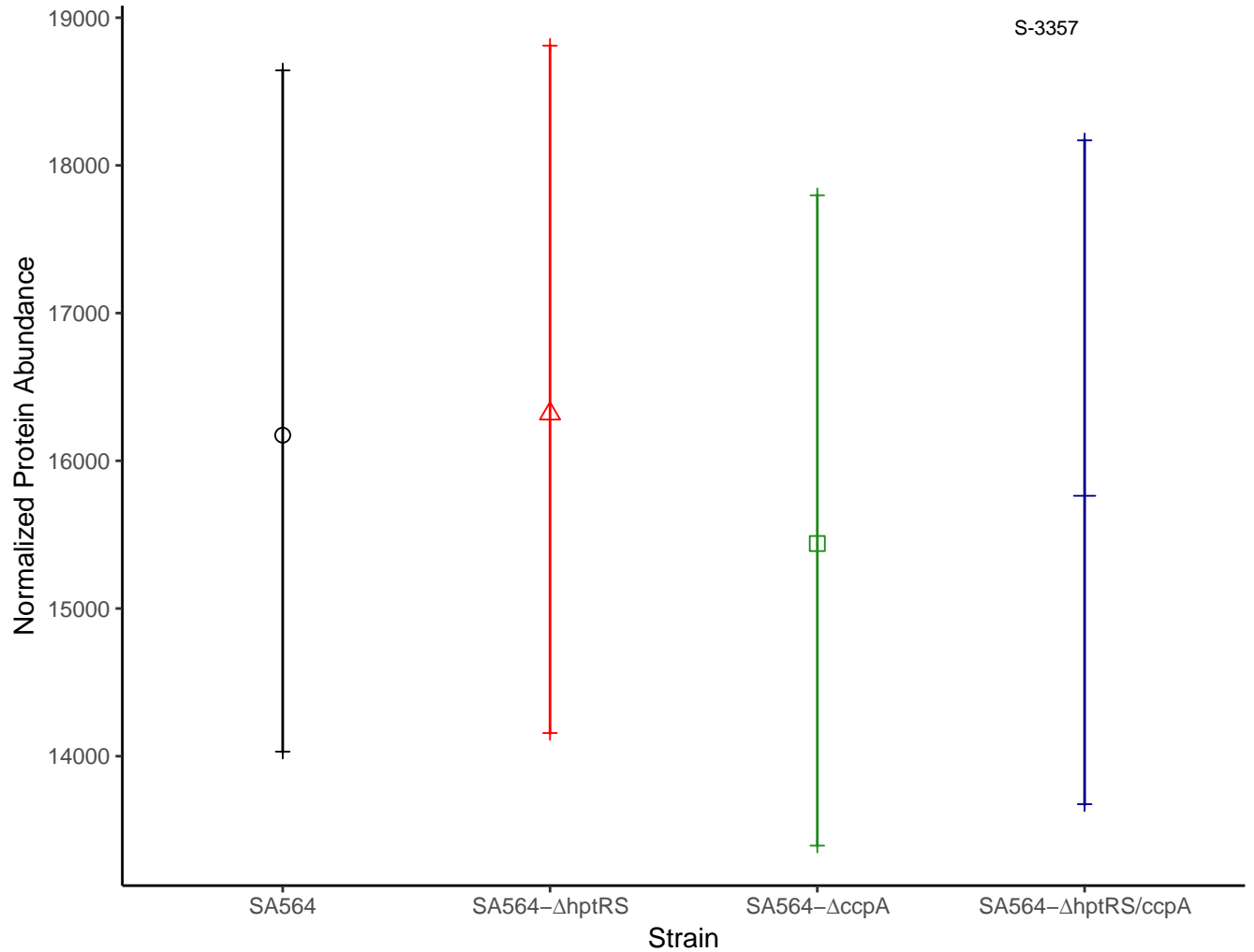
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# RPOE\_STAAM



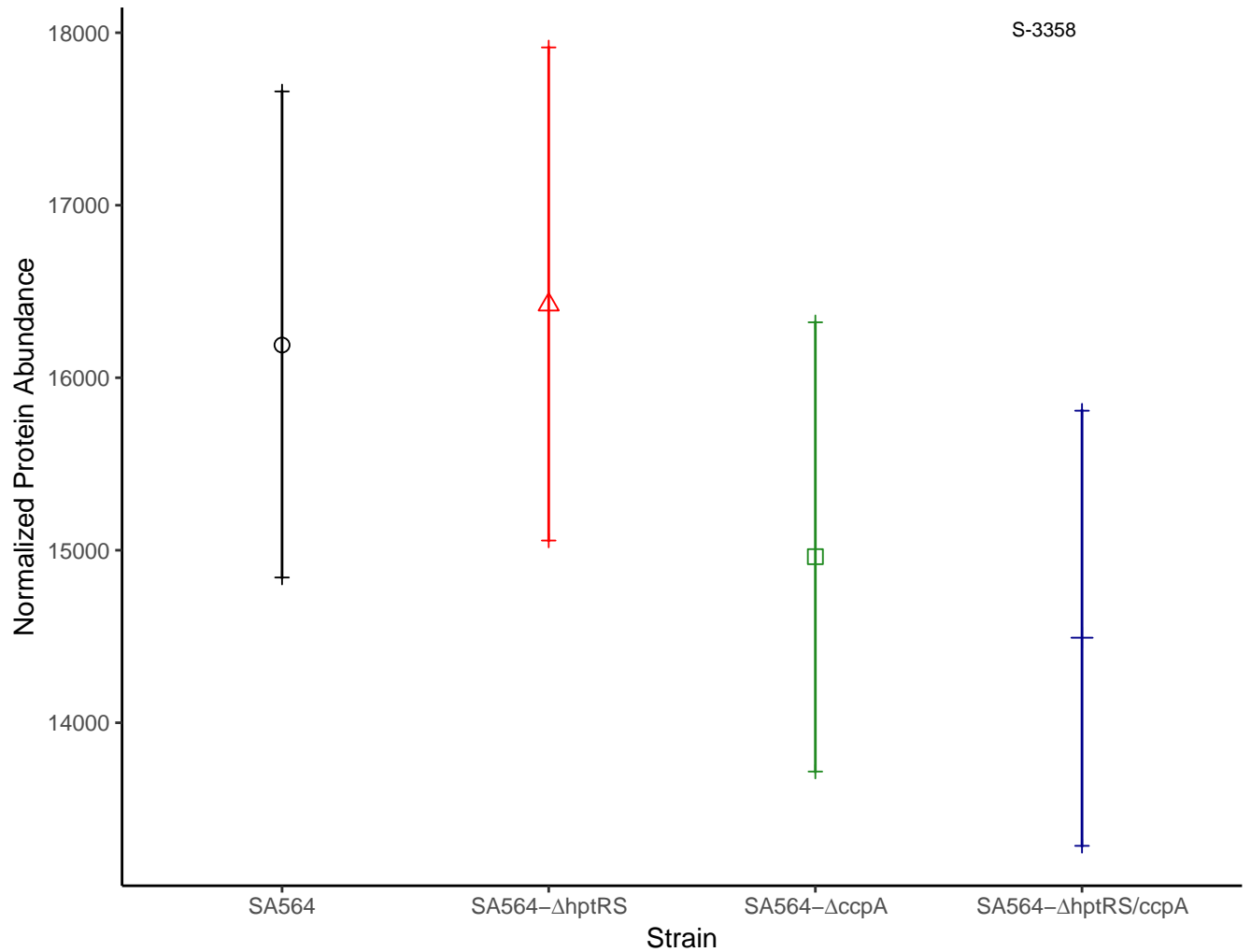
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RPOZ\_STAAM



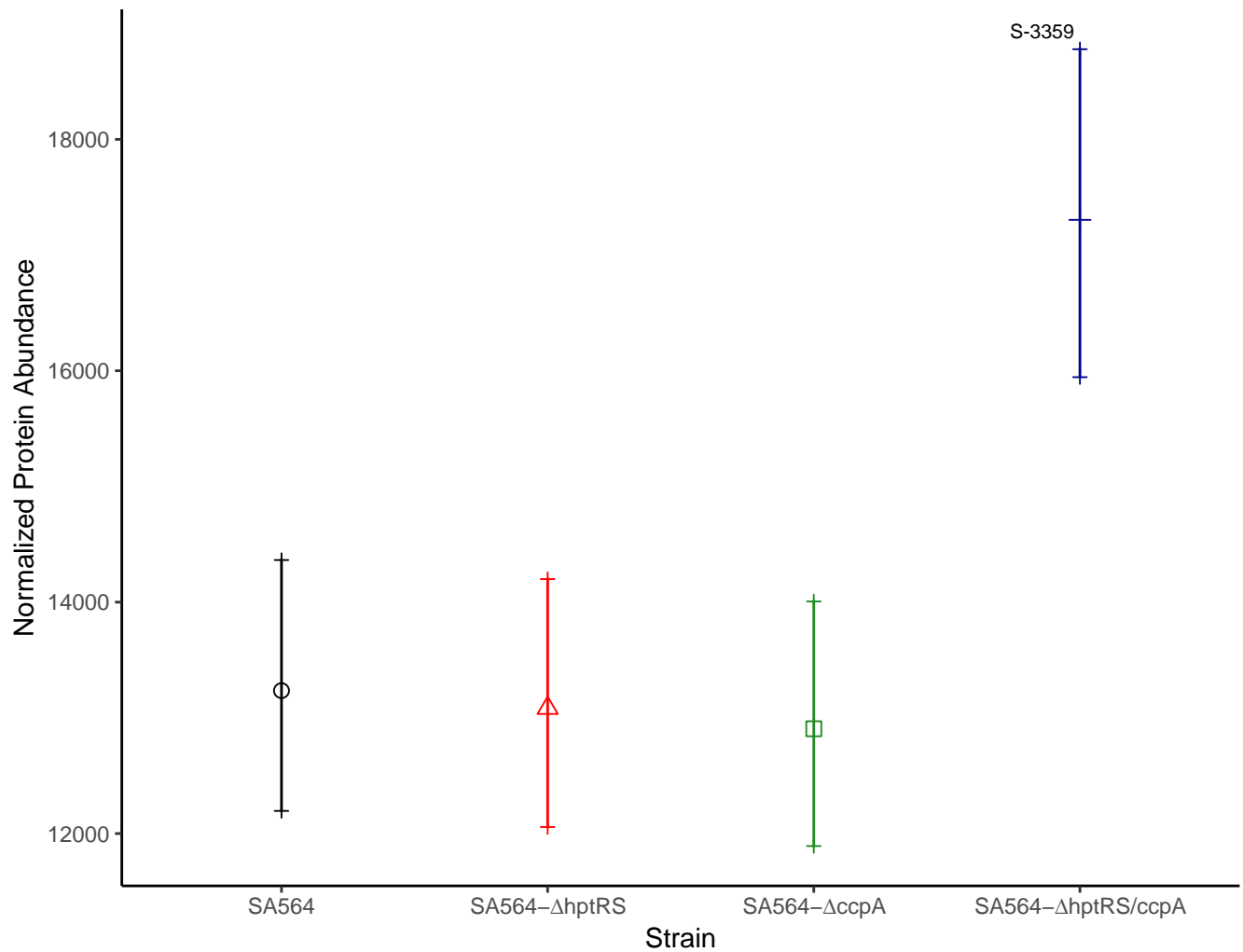
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RRF\_STAAM



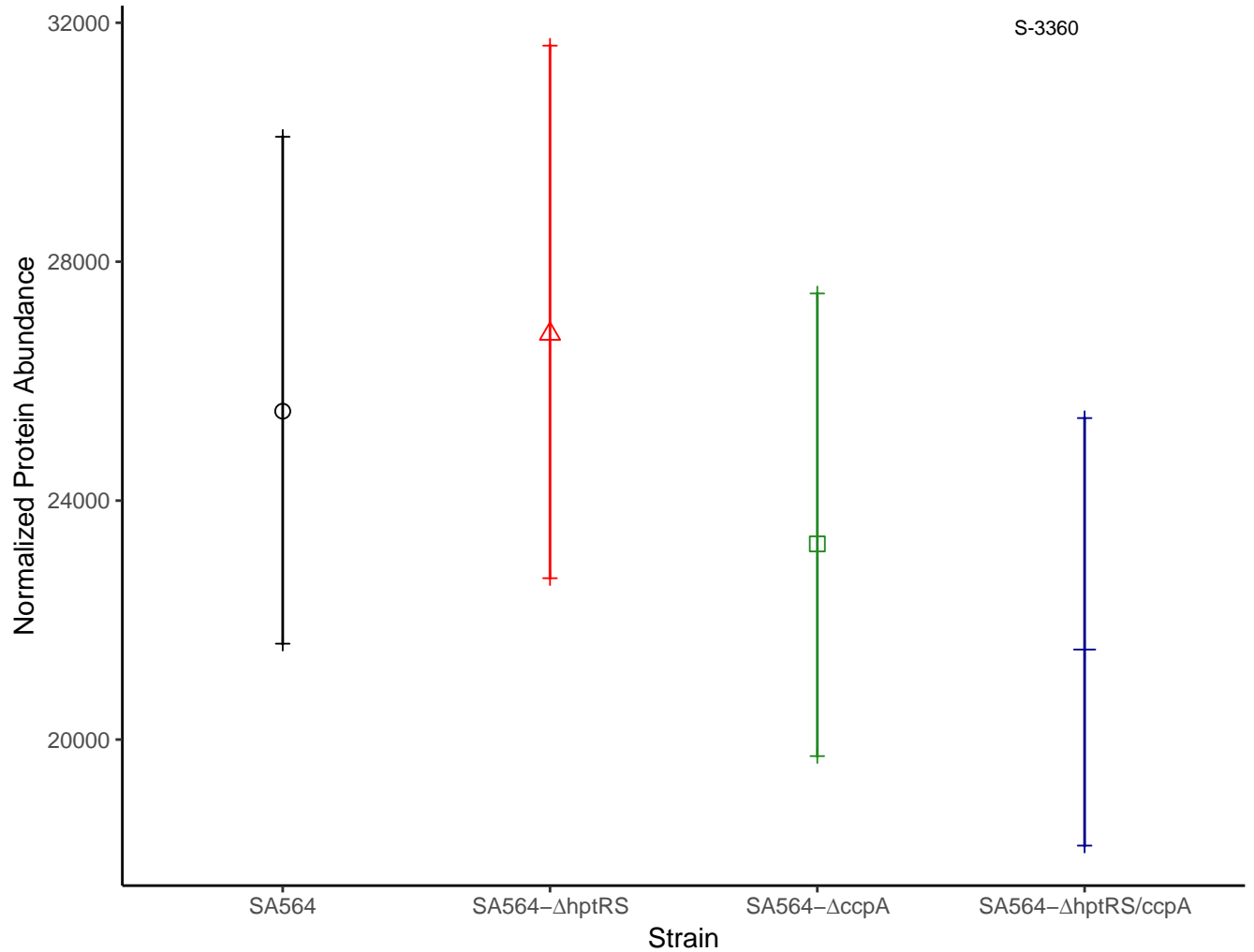
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS1\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

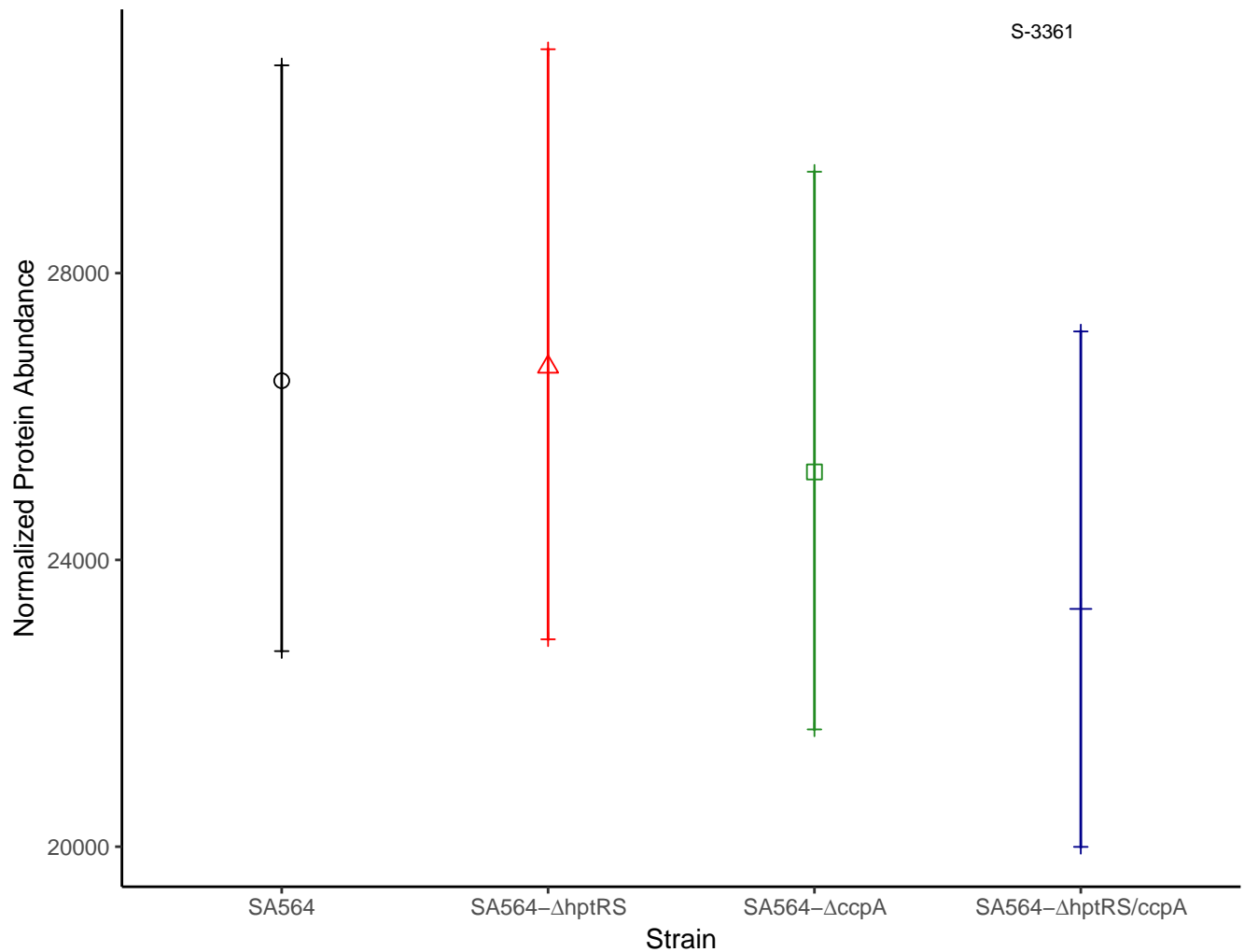
# RS10\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

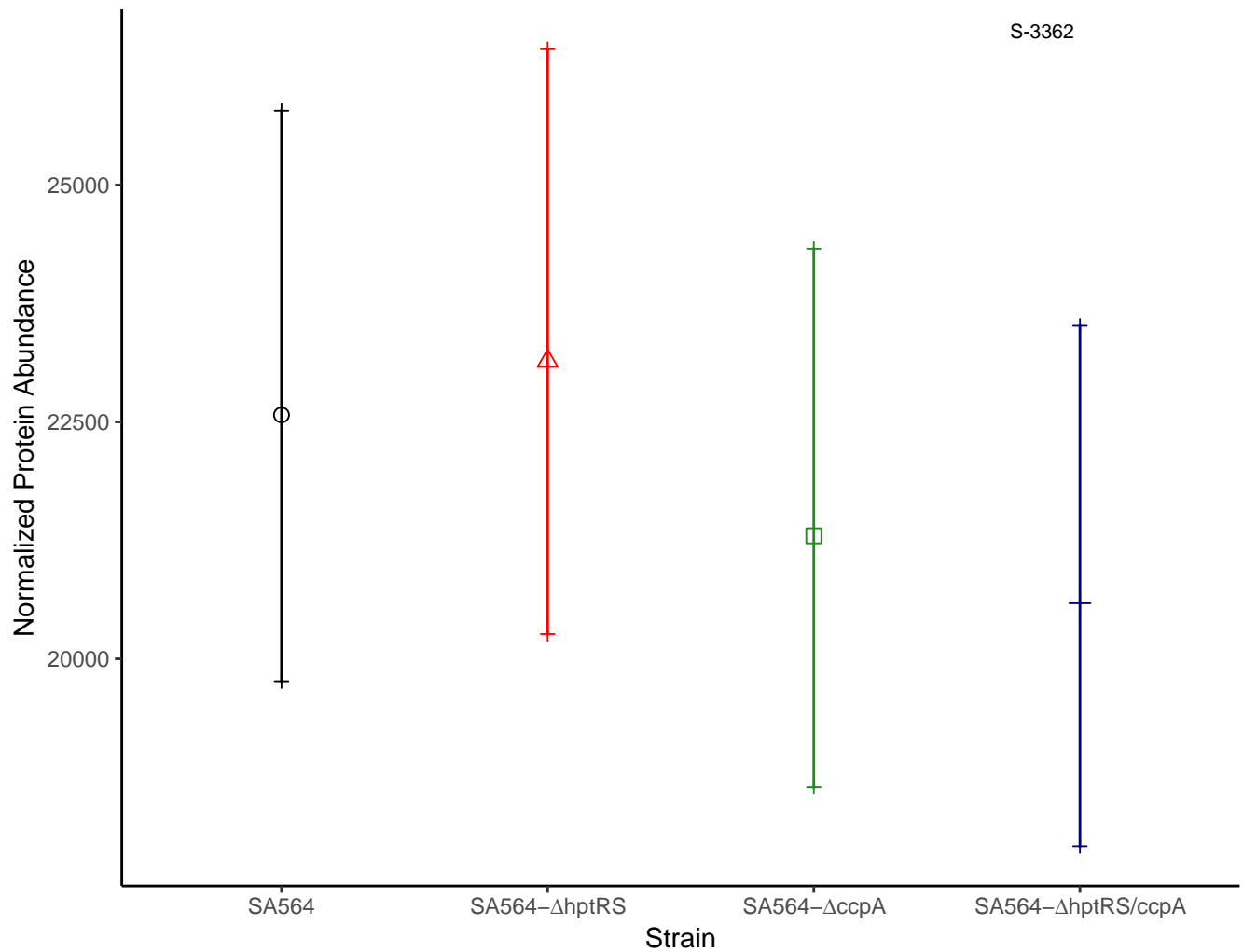


# RS11\_STAAM



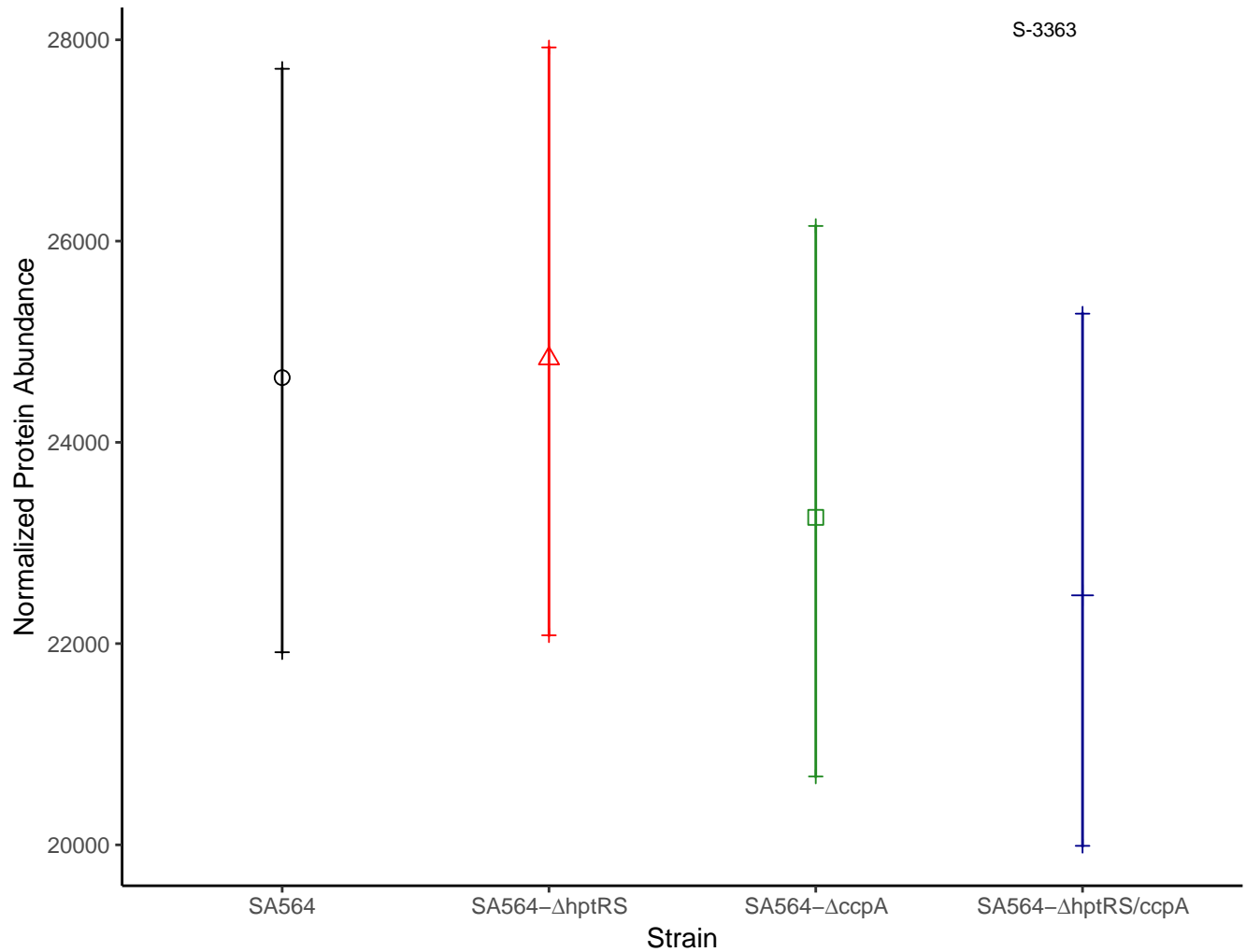
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS12\_STAAM



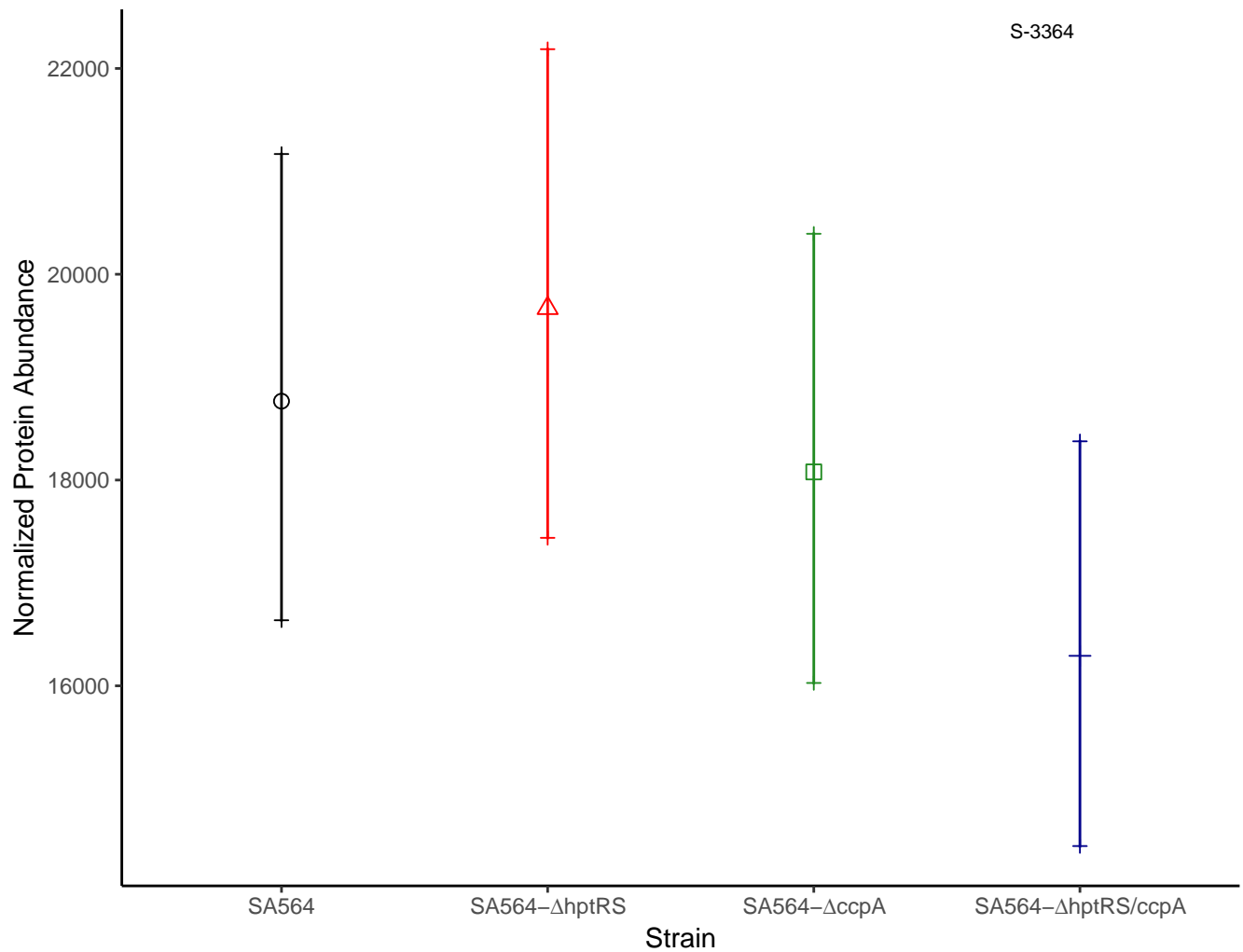
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS13\_STAAM



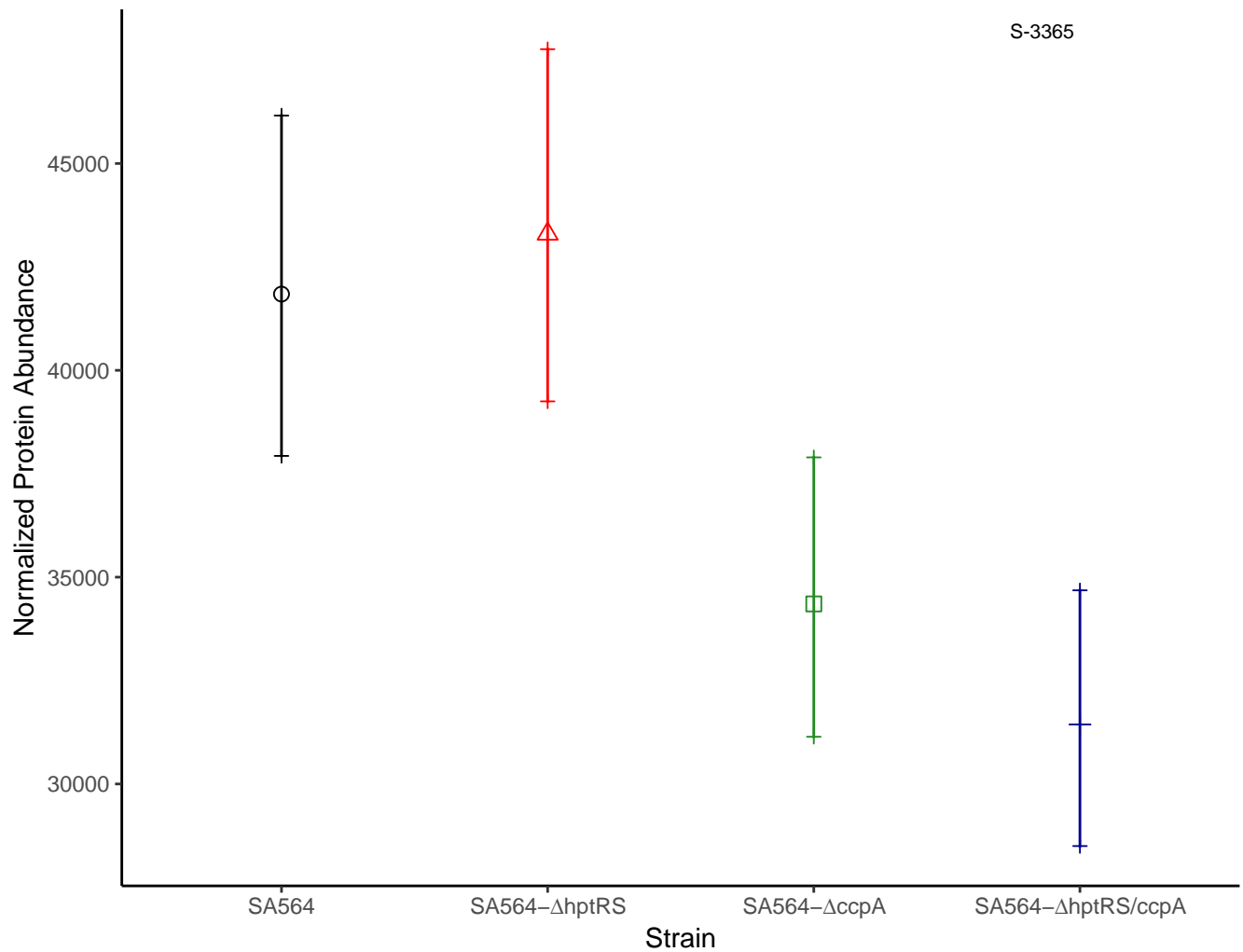
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS15\_STAAM



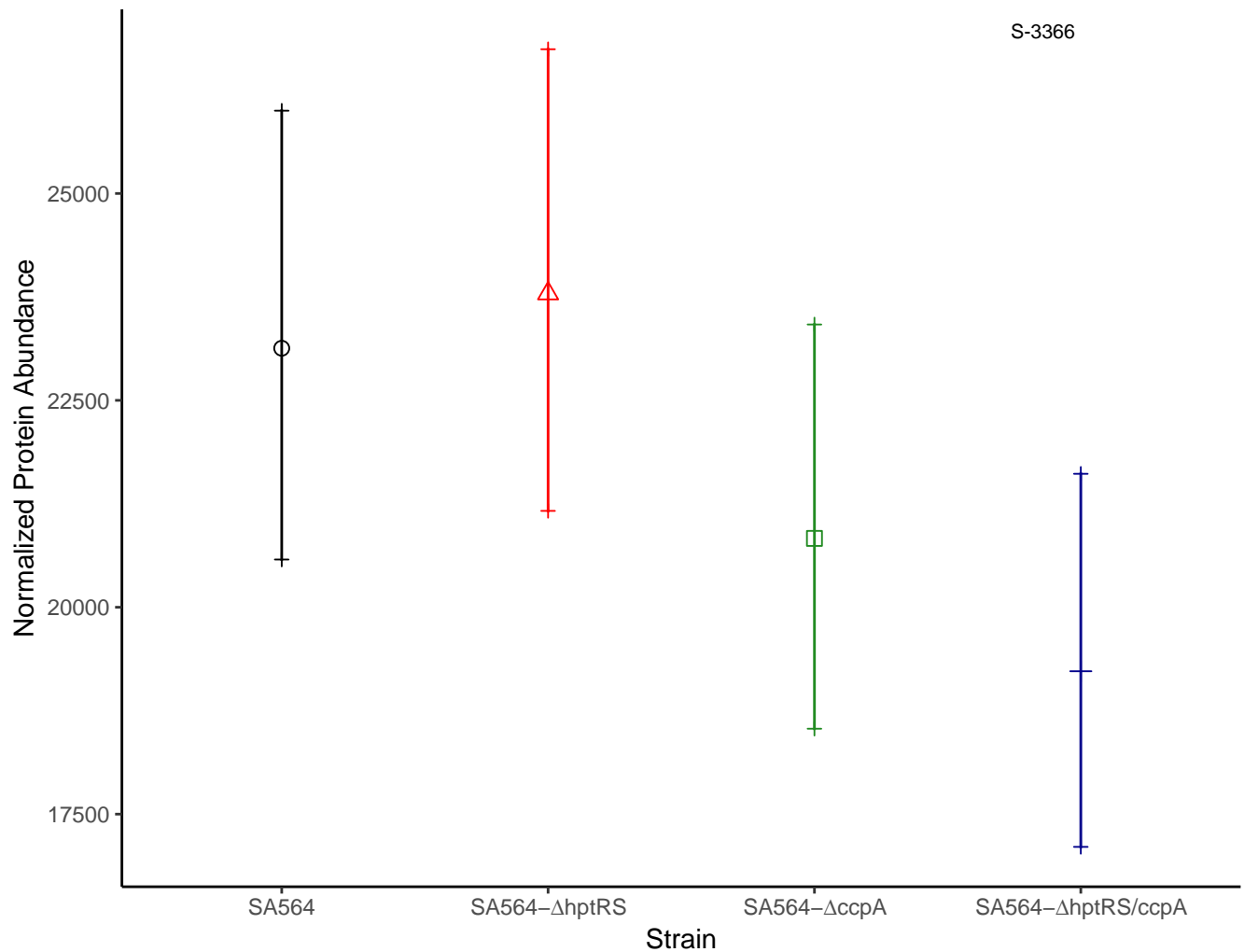
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS16\_STAAM



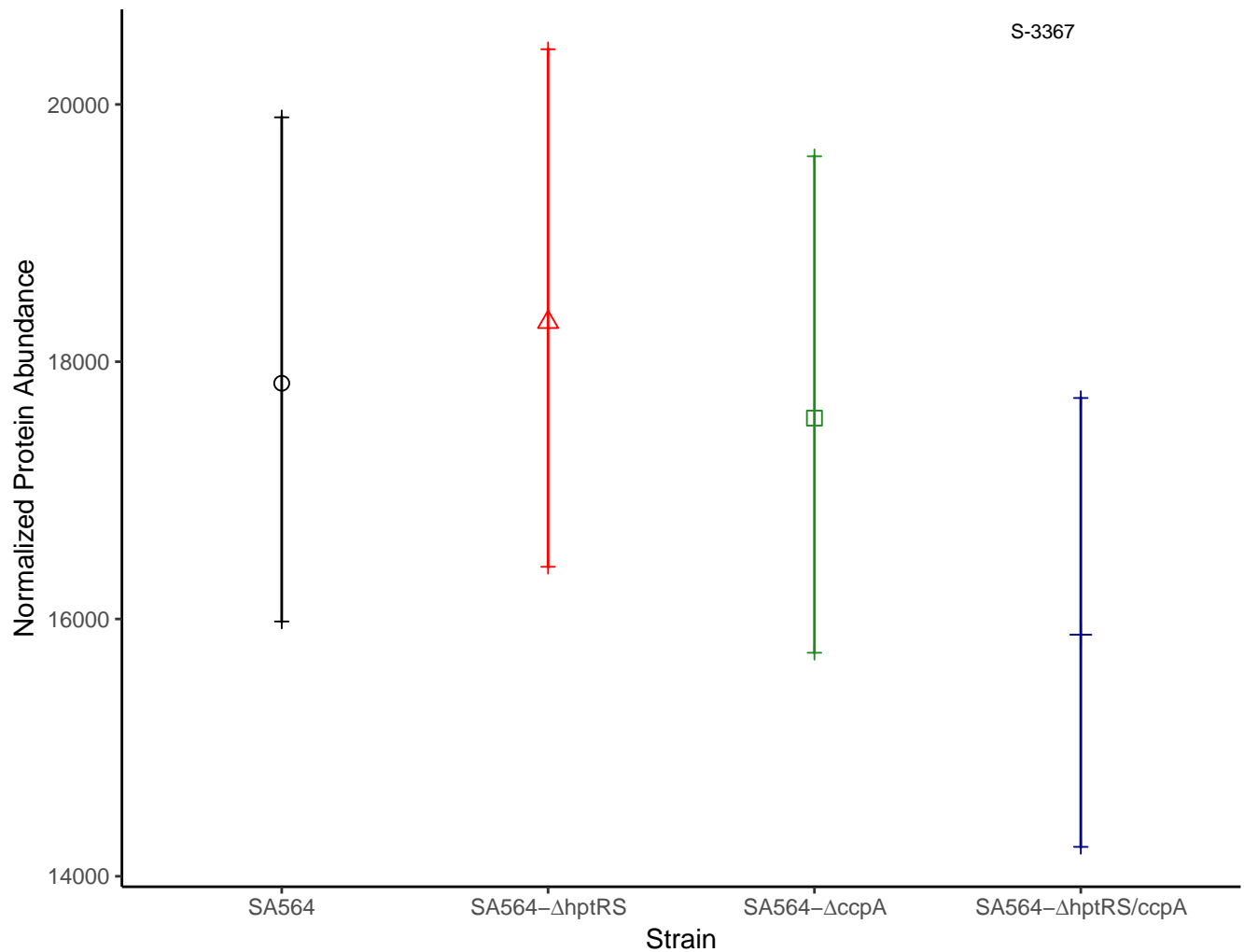
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS17\_STAAM



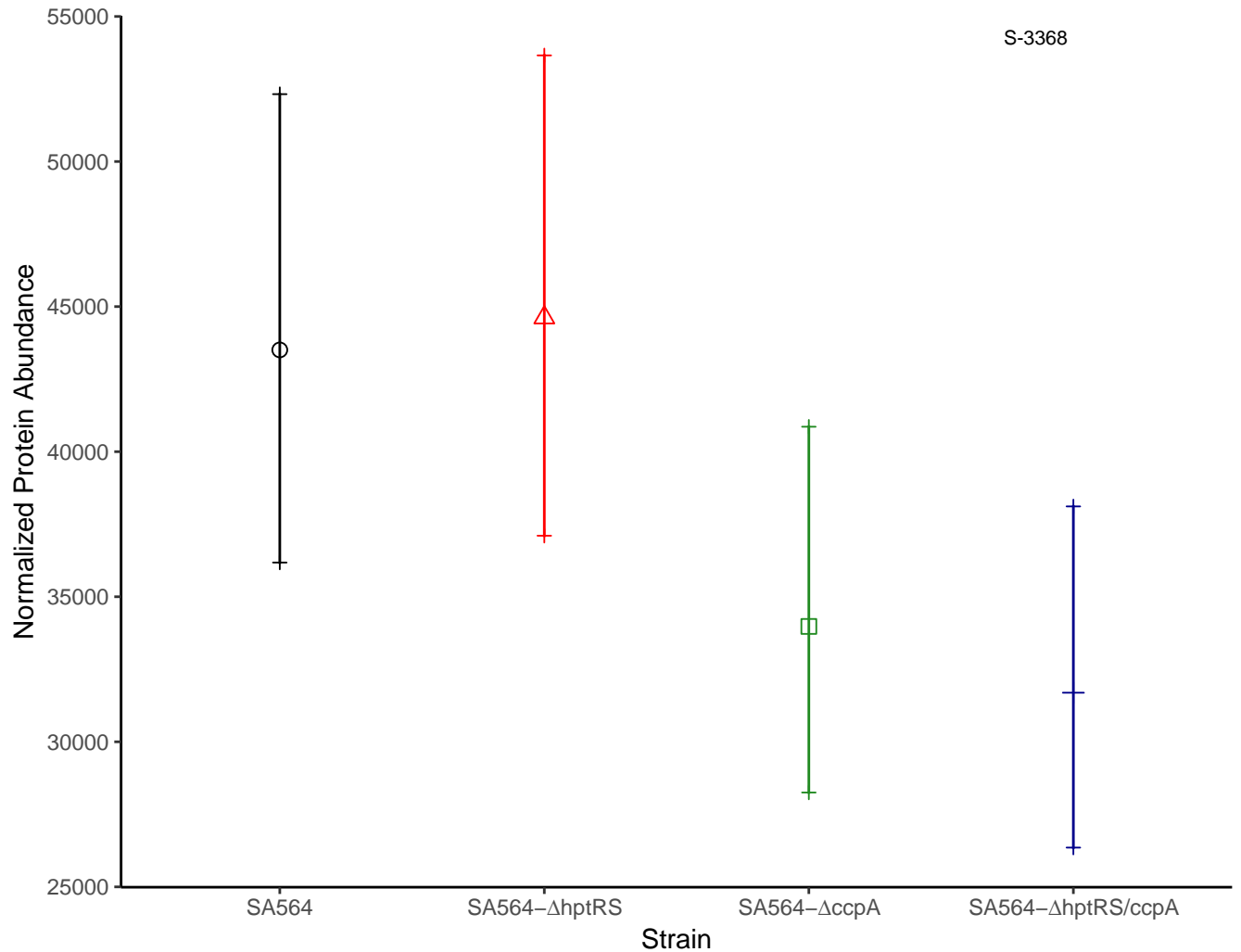
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS18\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

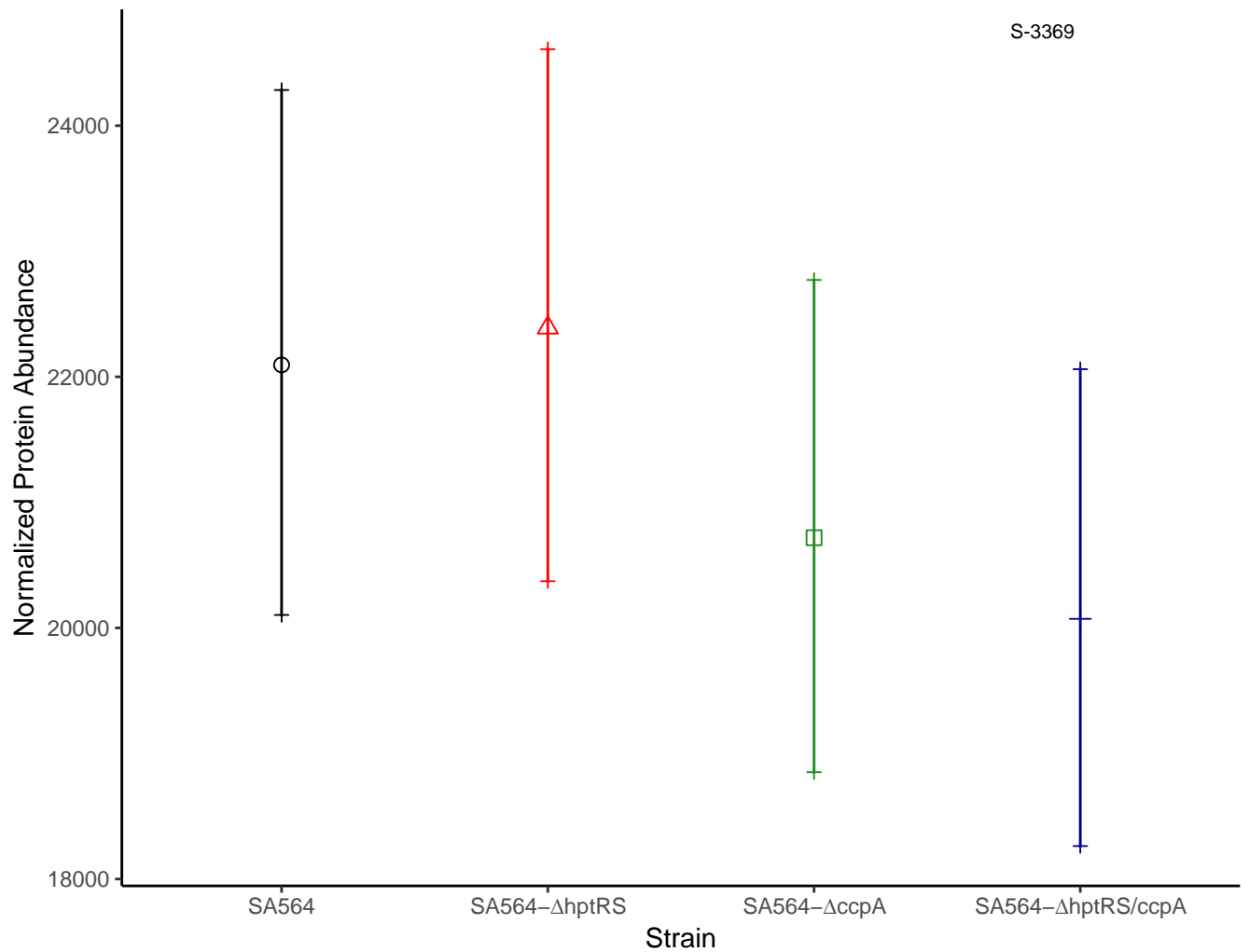
# RS19\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

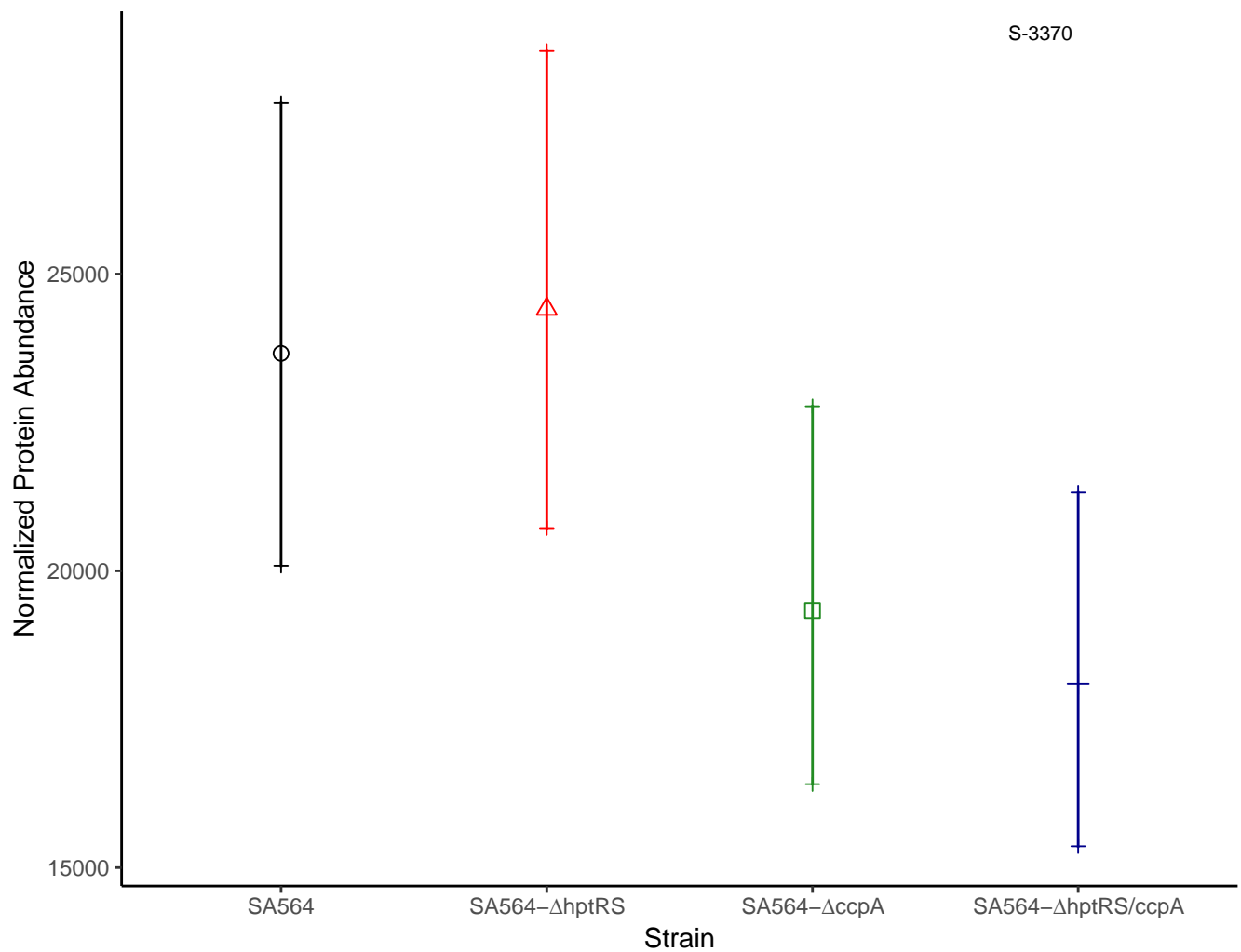


# RS2\_STAAM



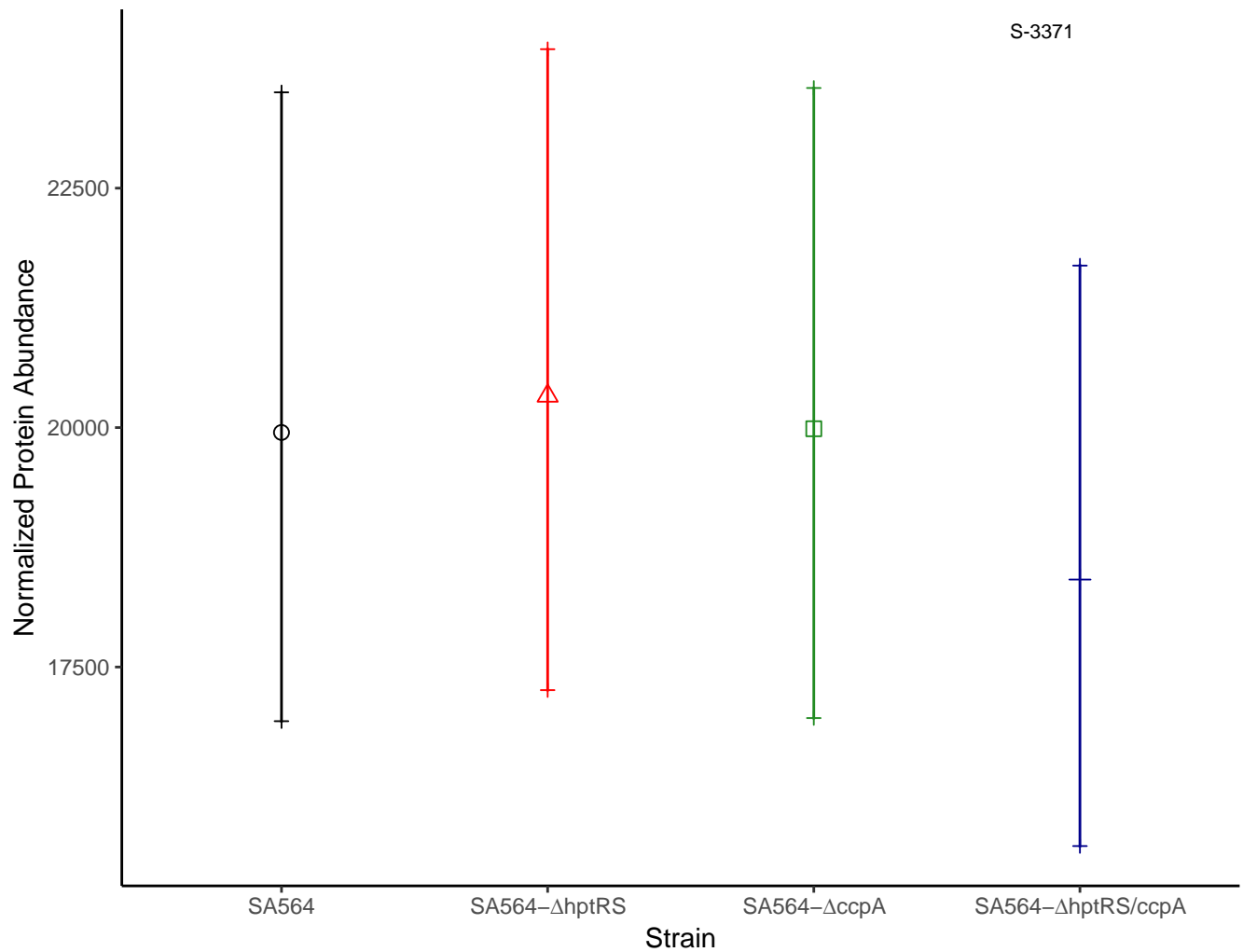
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS20\_STAAM



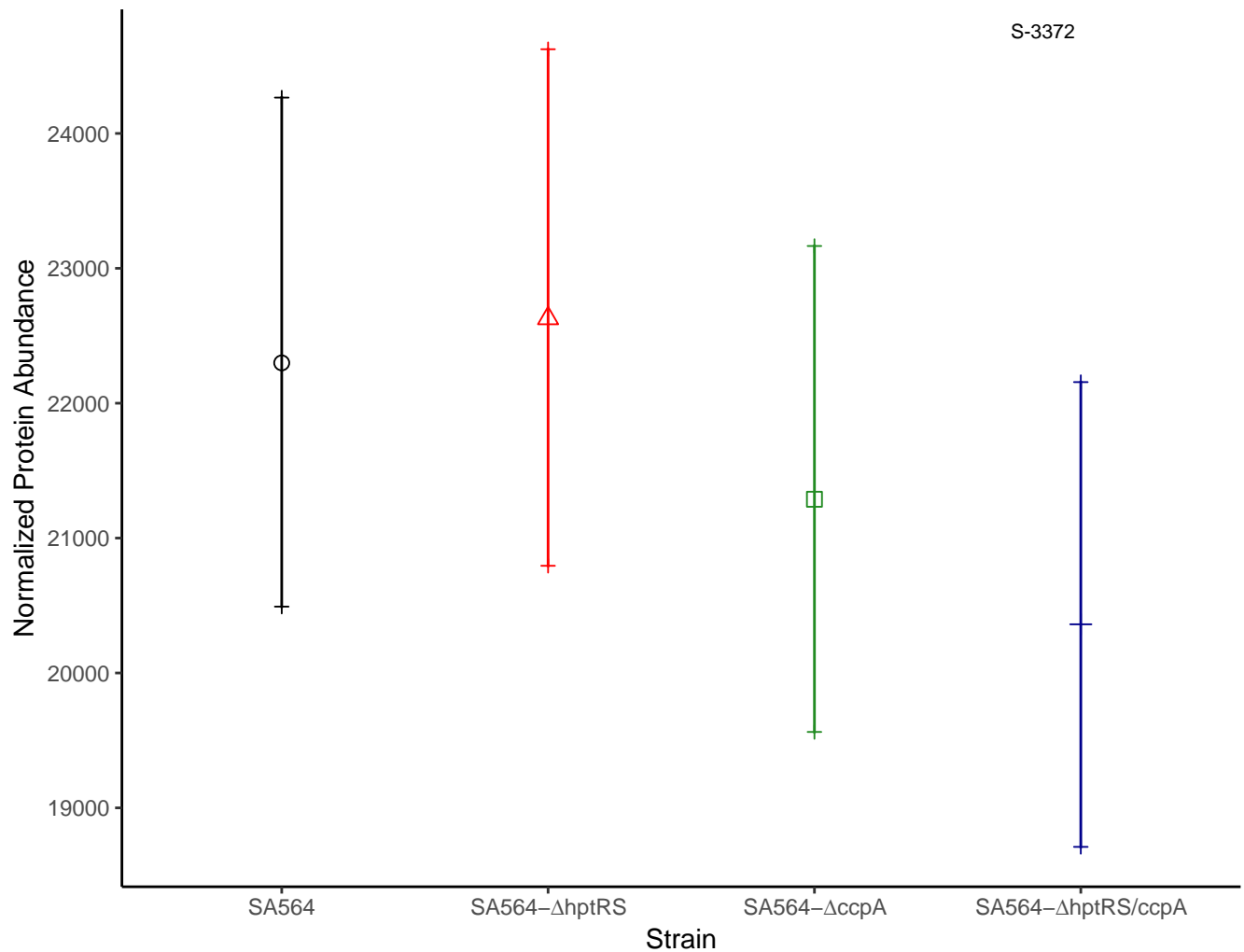
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS21\_STAAM



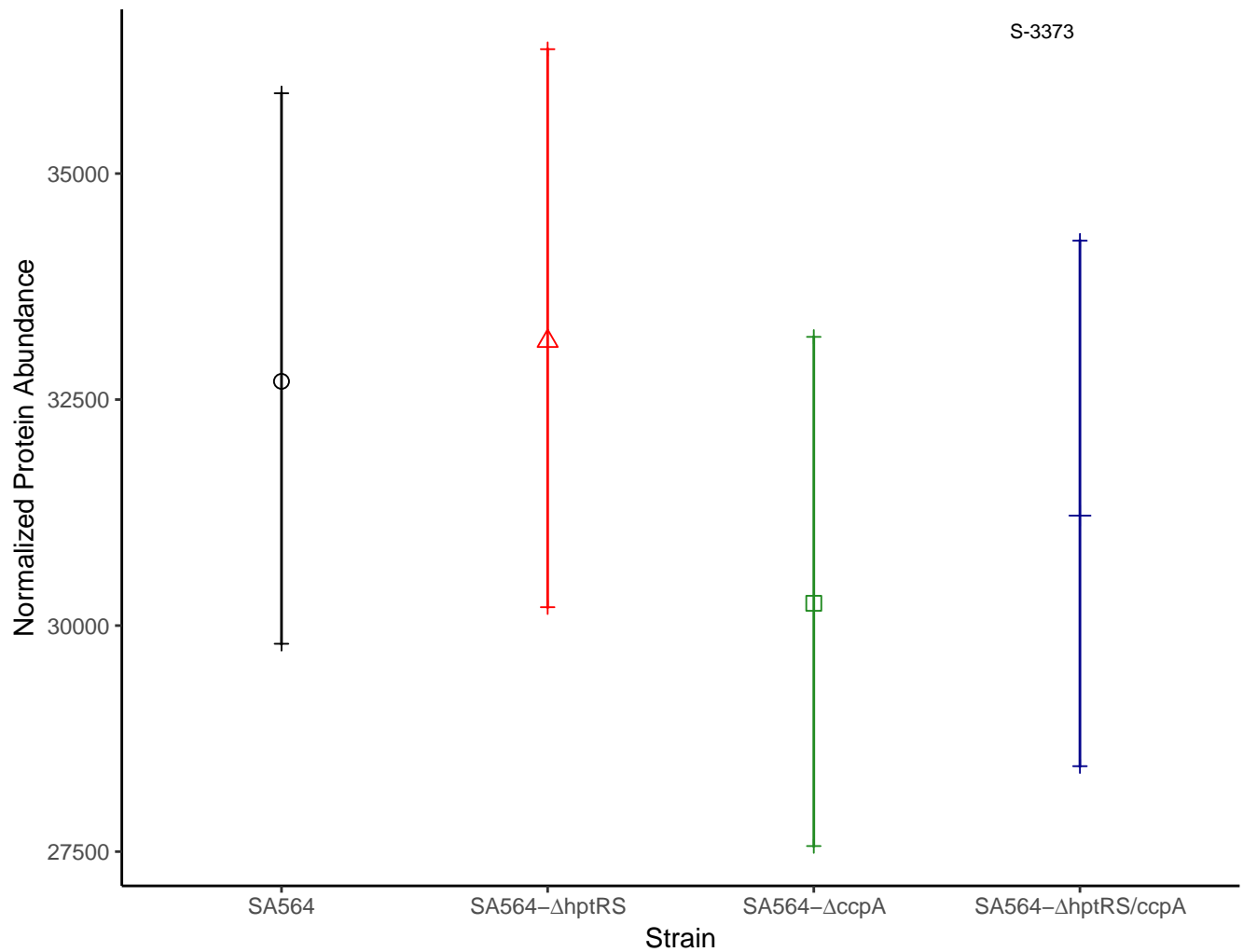
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RS3\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

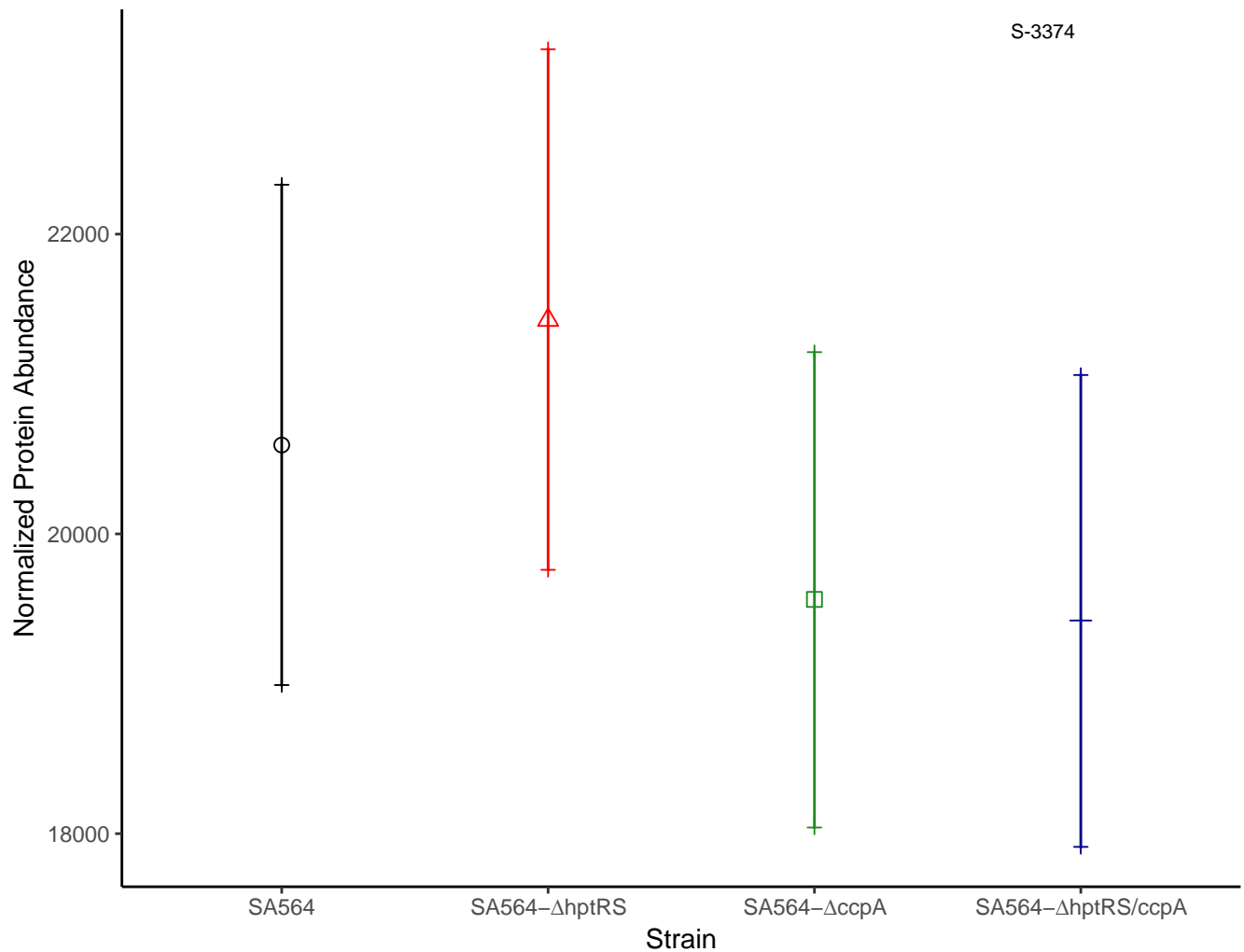
# RS4\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

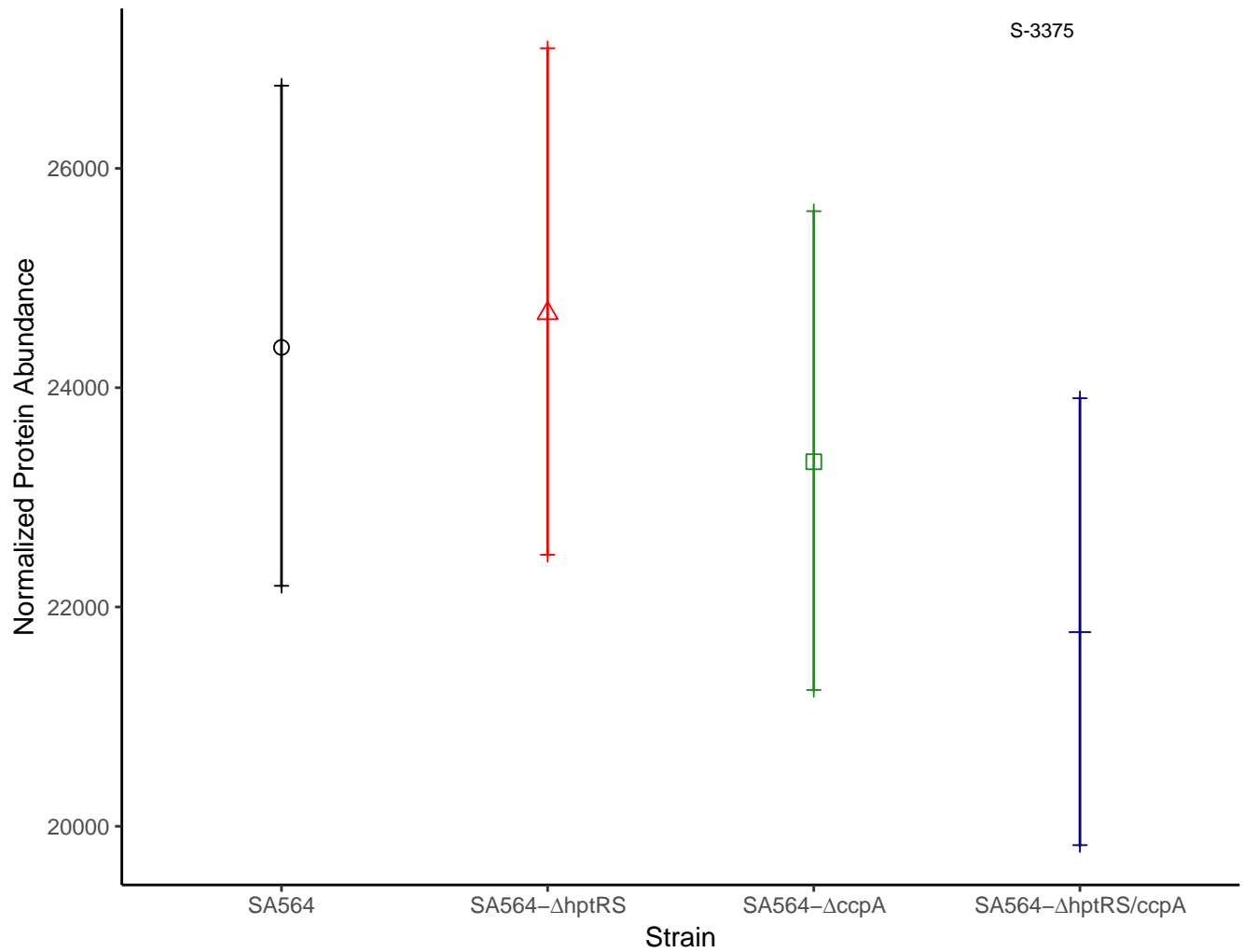
# RS5\_STAAM

S-3374



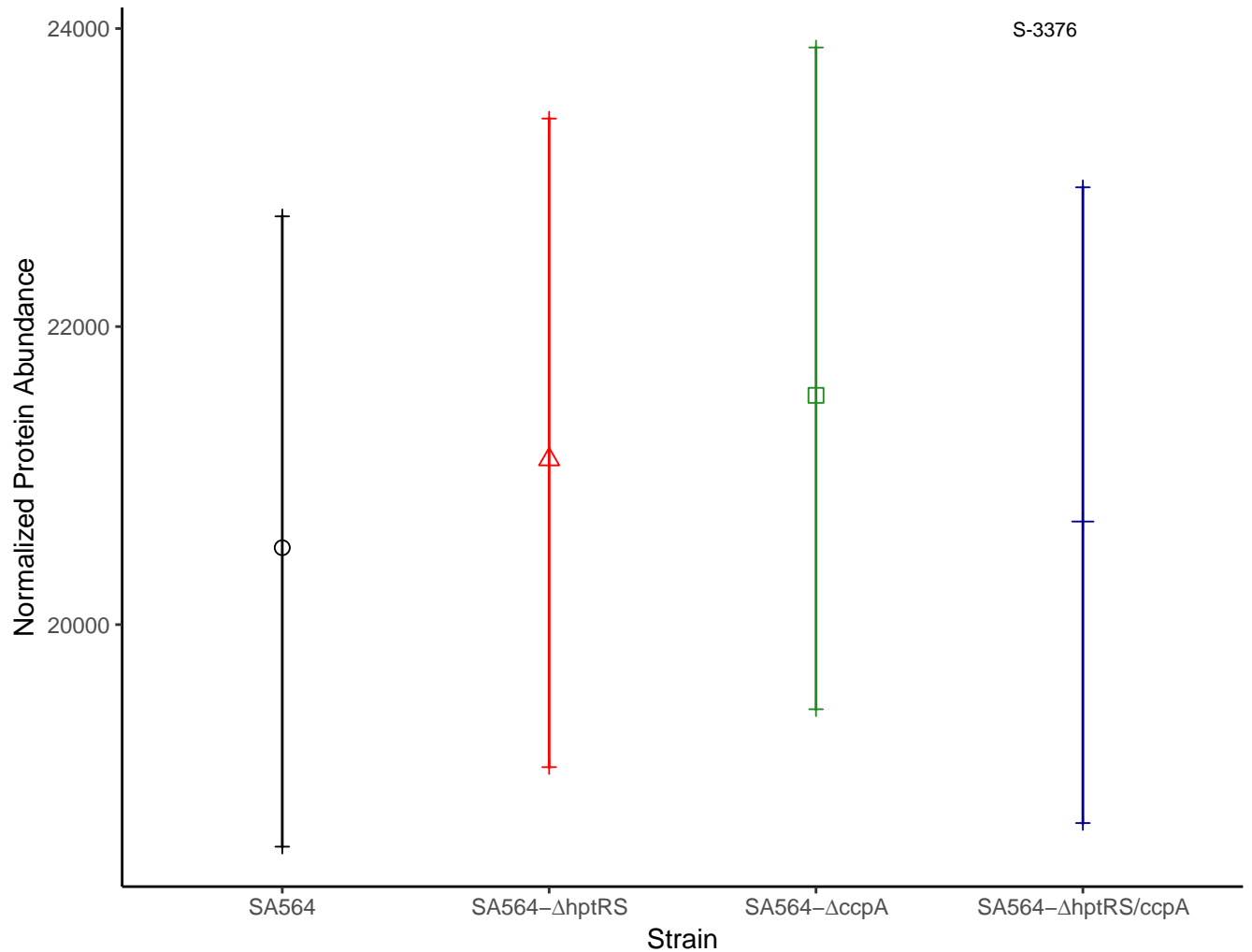
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RS6\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

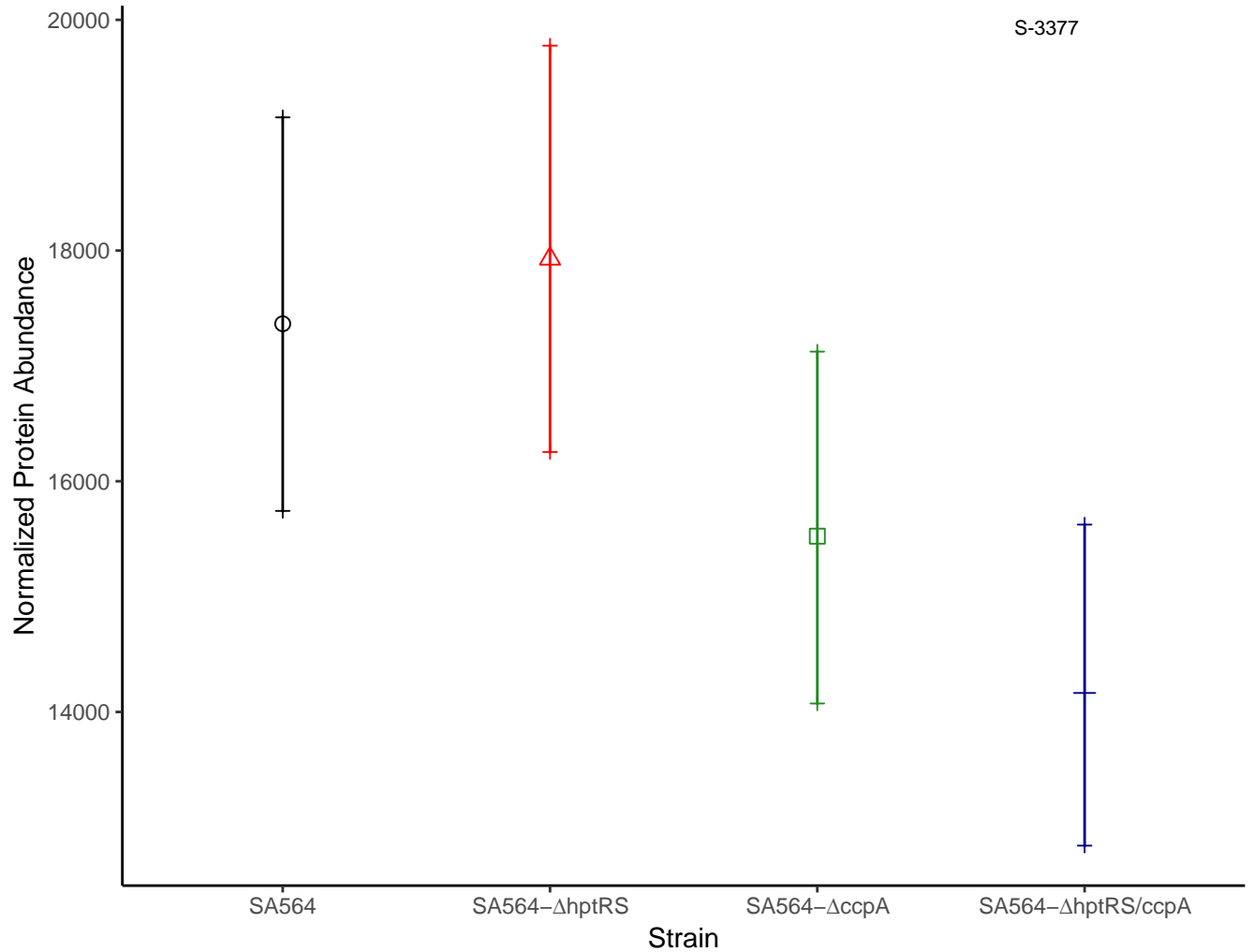
# RS7\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

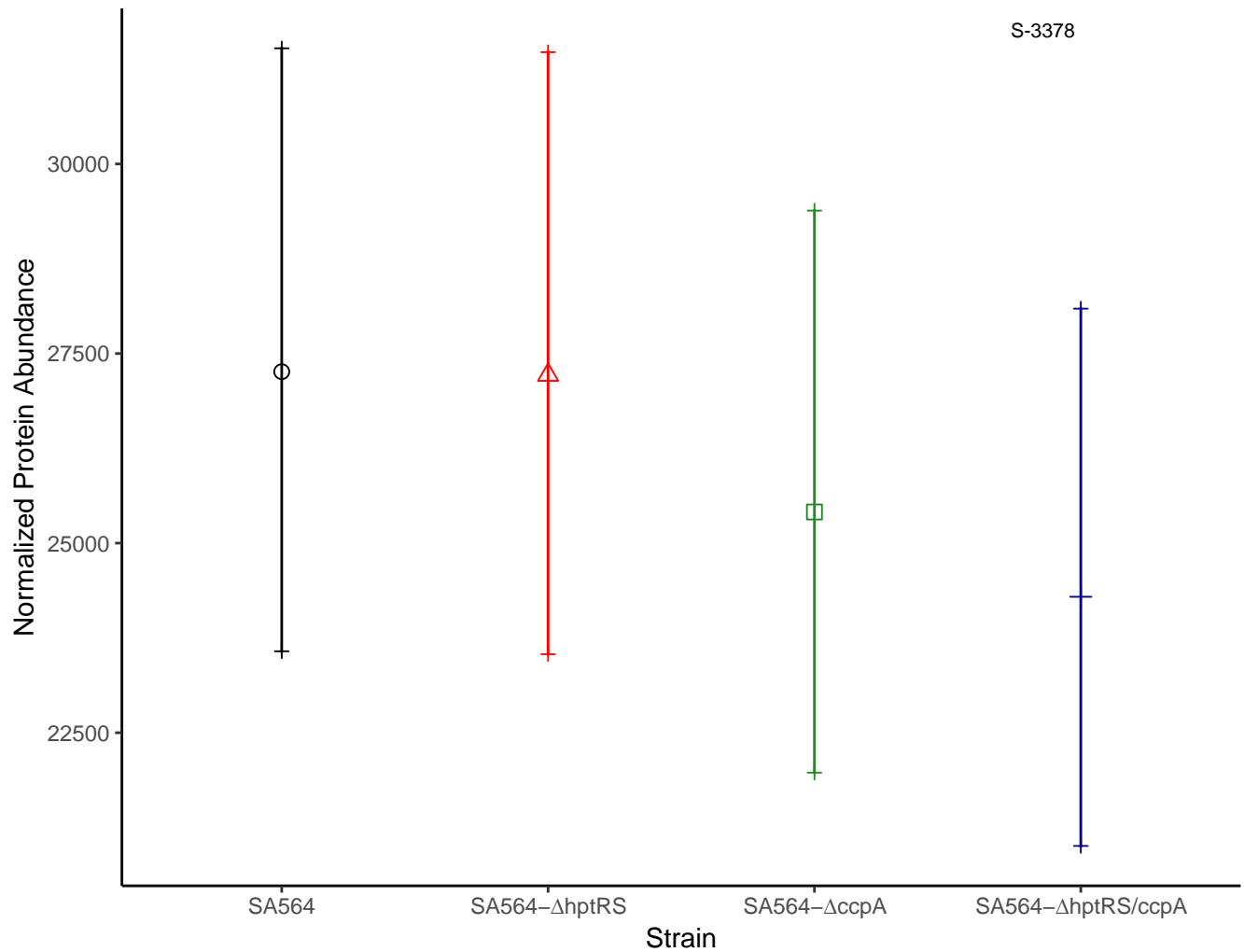


# RS8\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

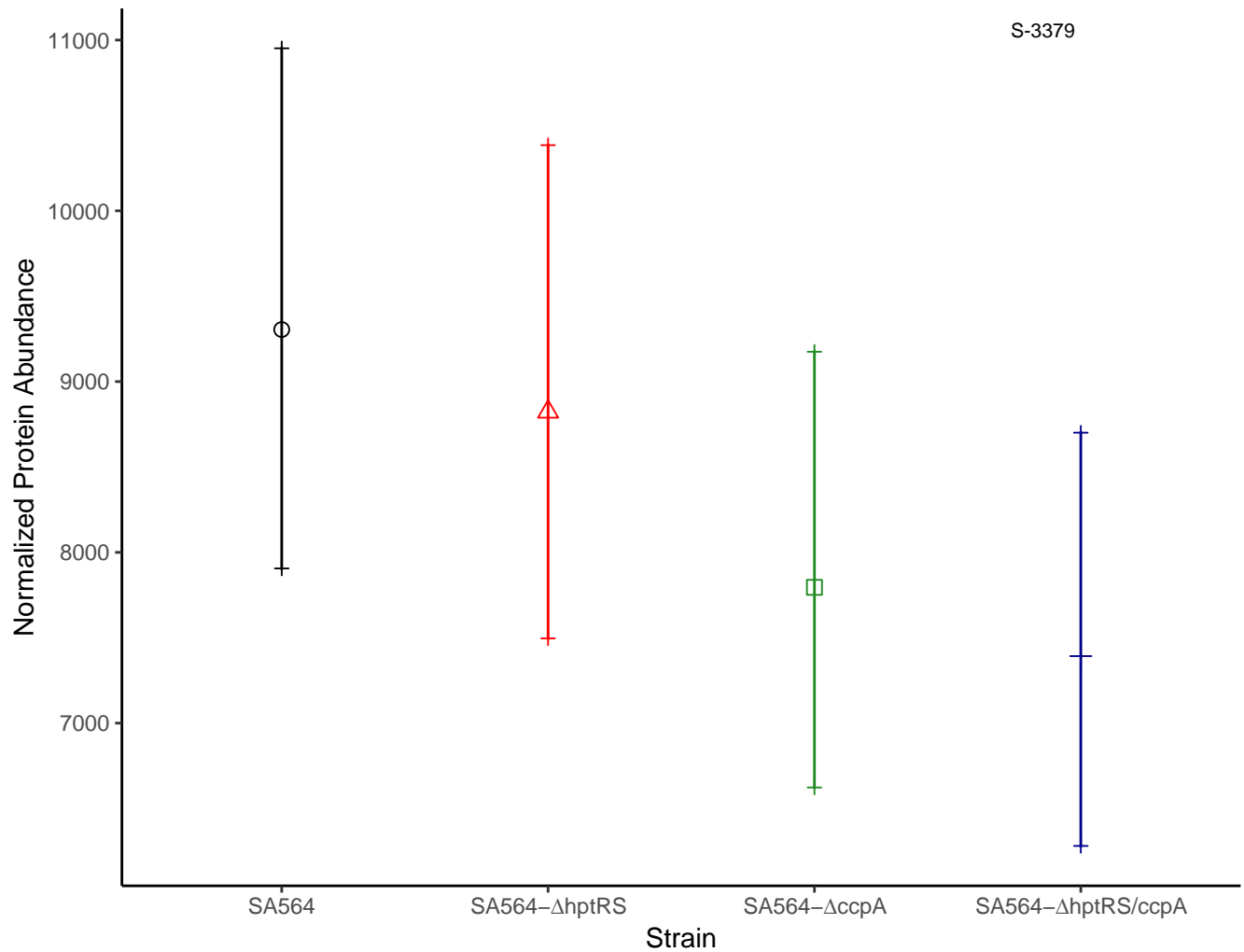
# RS9\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

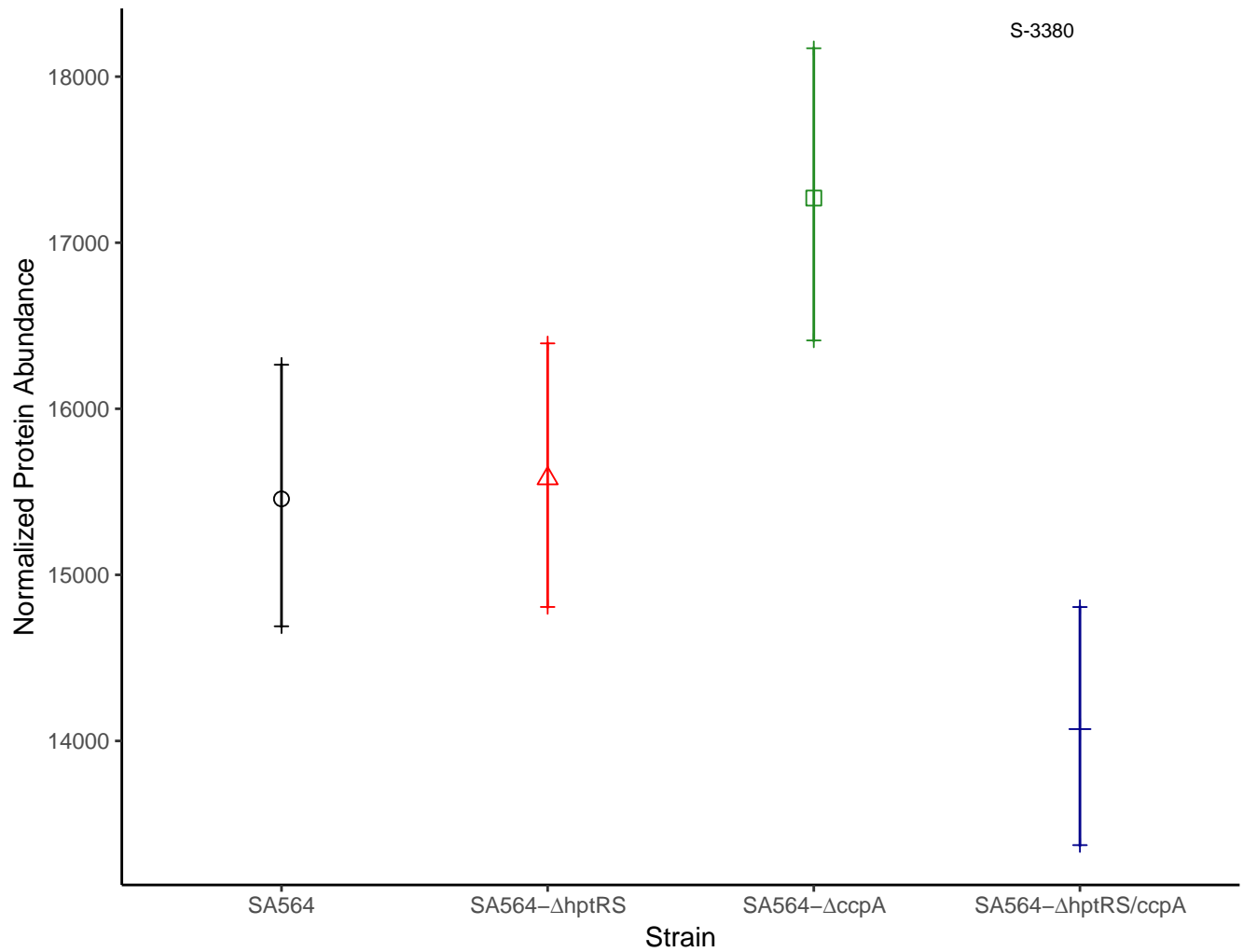
# RSBV\_STAAM

S-3379



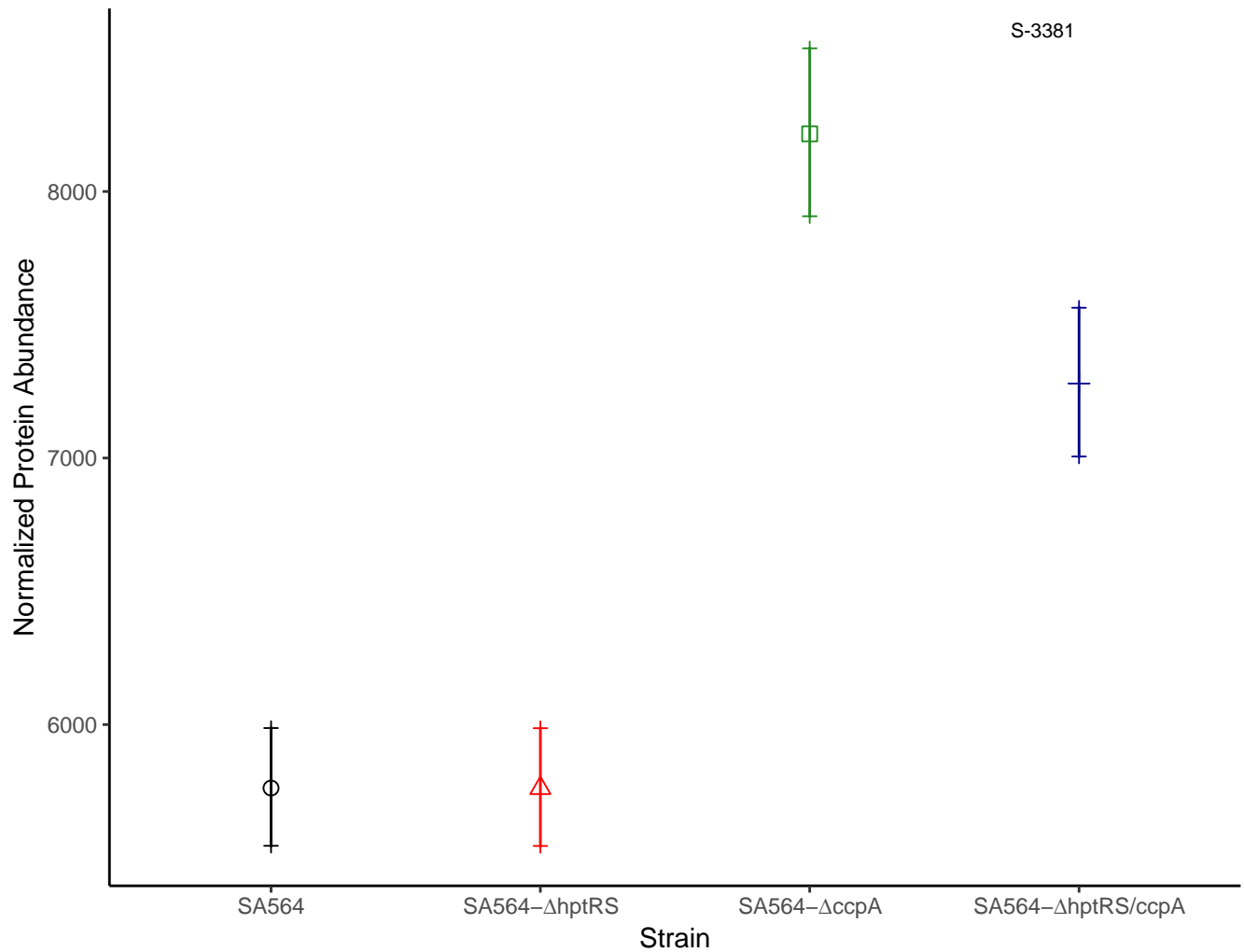
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# RSBW\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

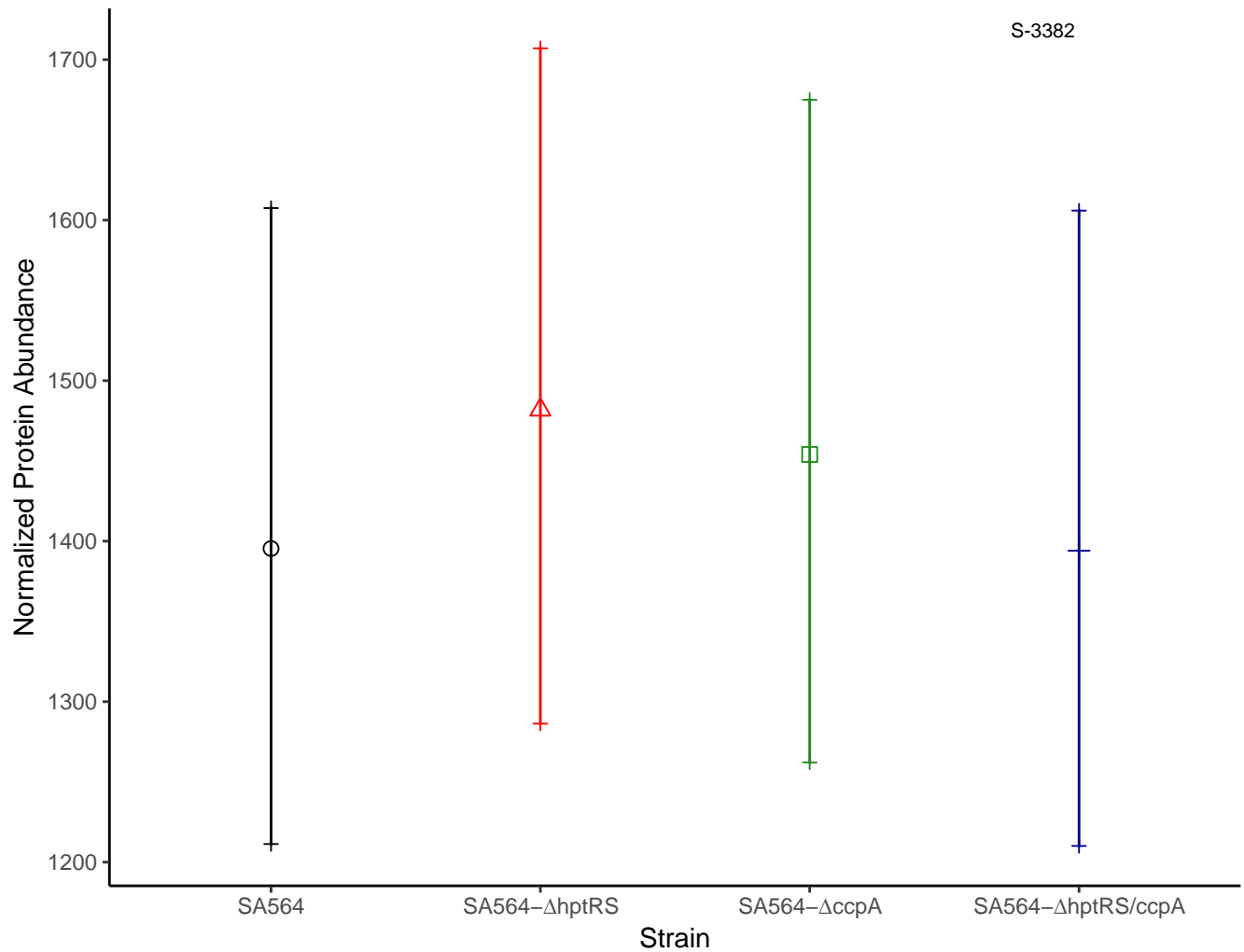
# RSMA\_STAAM



S-3381

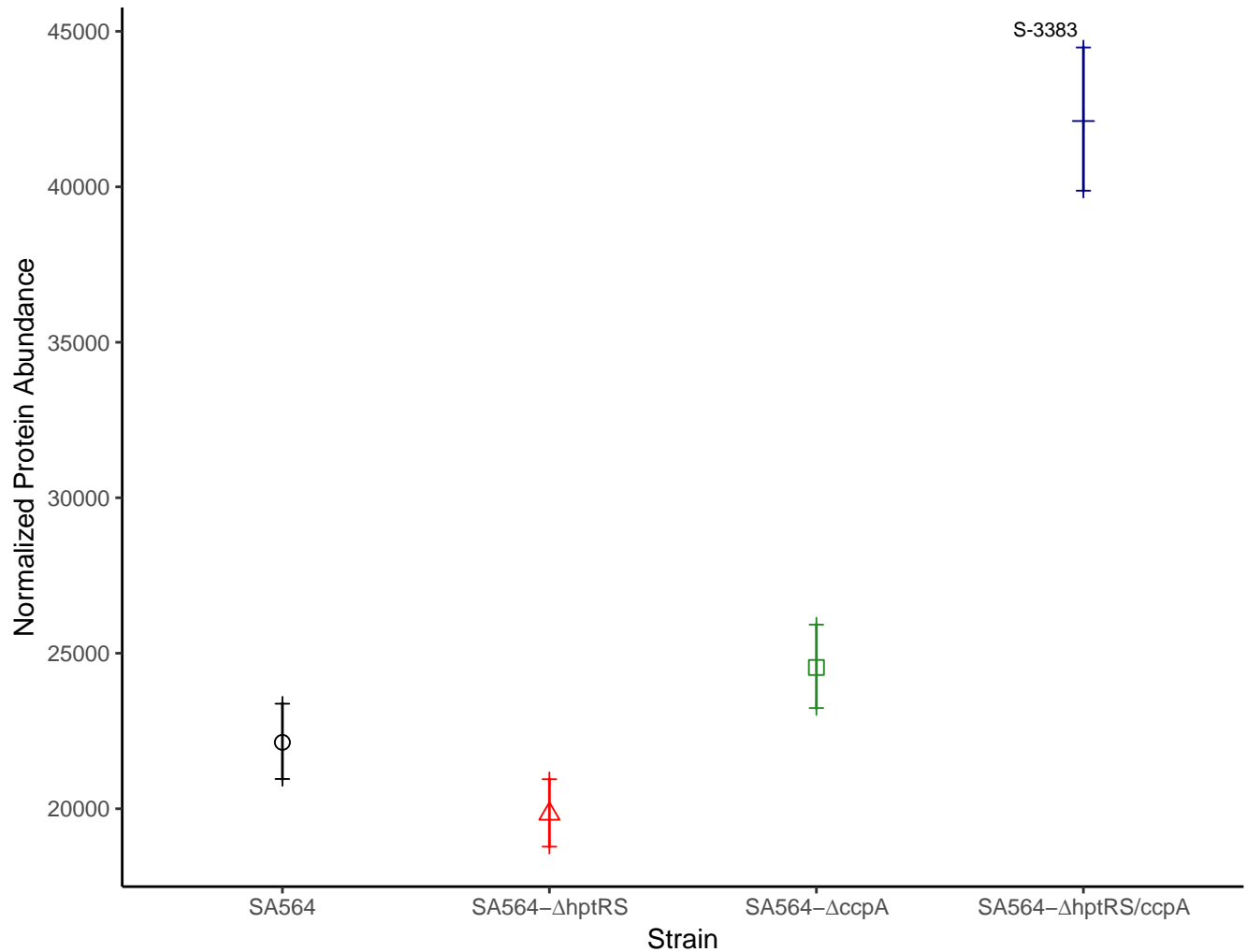
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RSMG\_STAAM



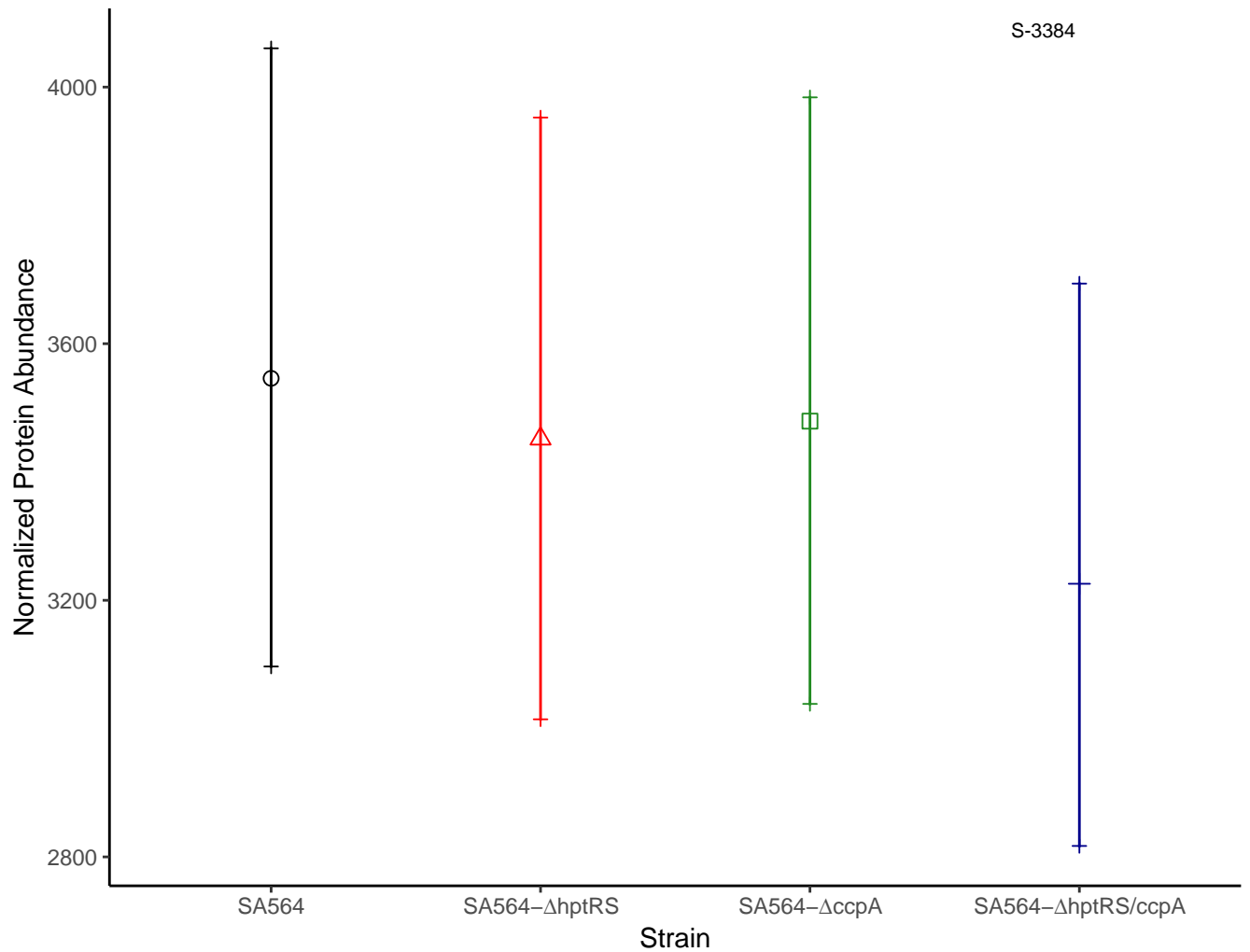
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# RUVX\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

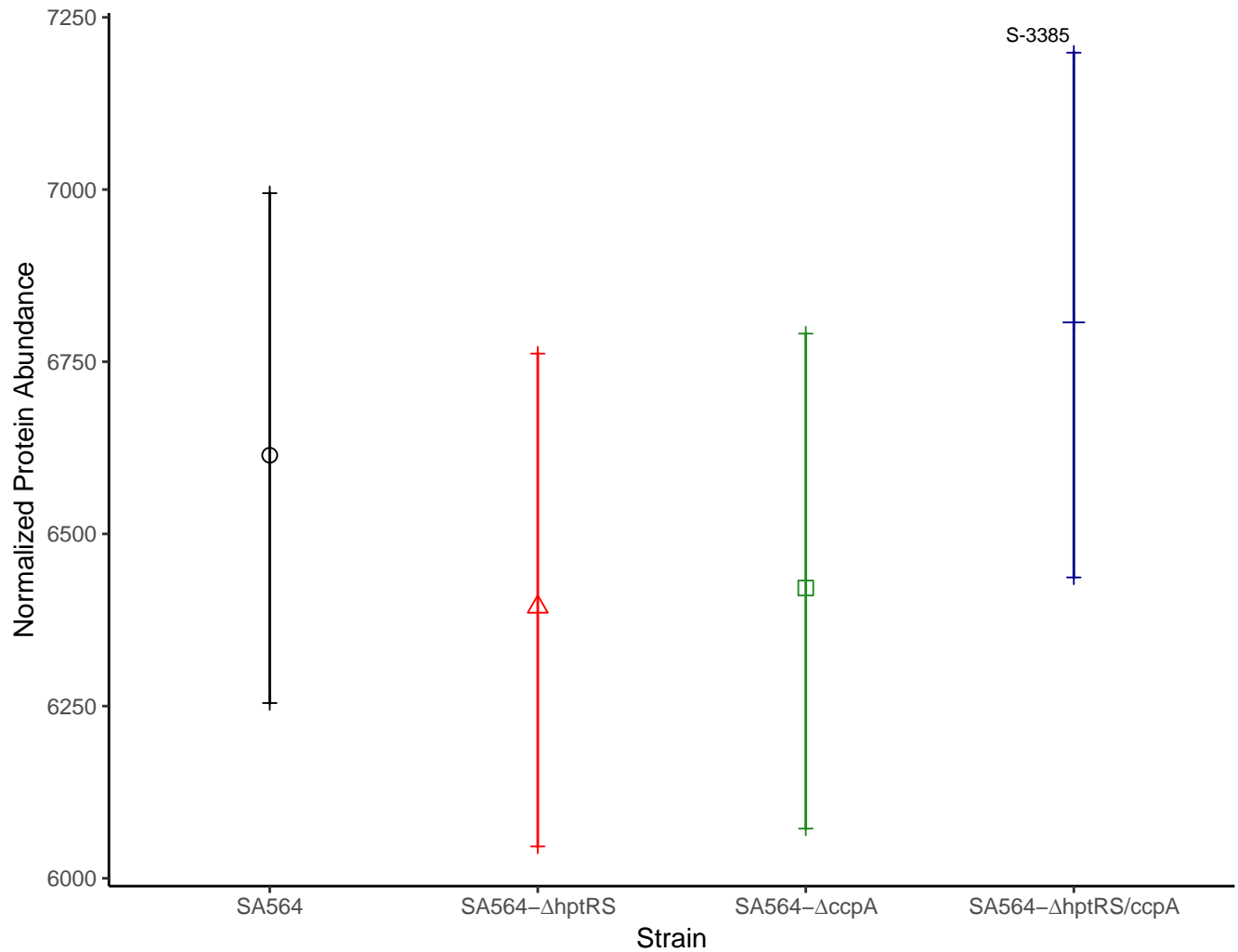
# S3AD\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

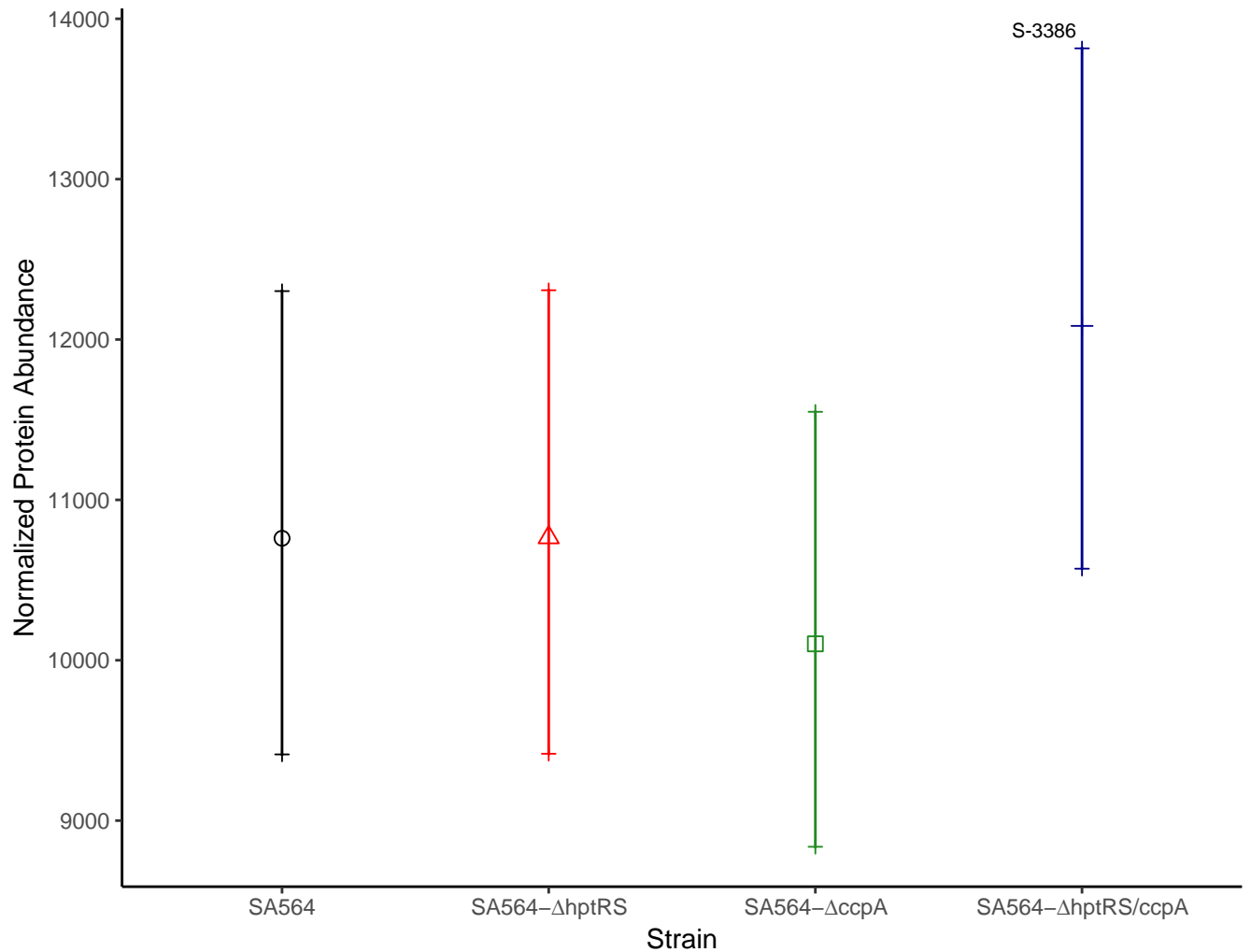


# SAER\_STAAM



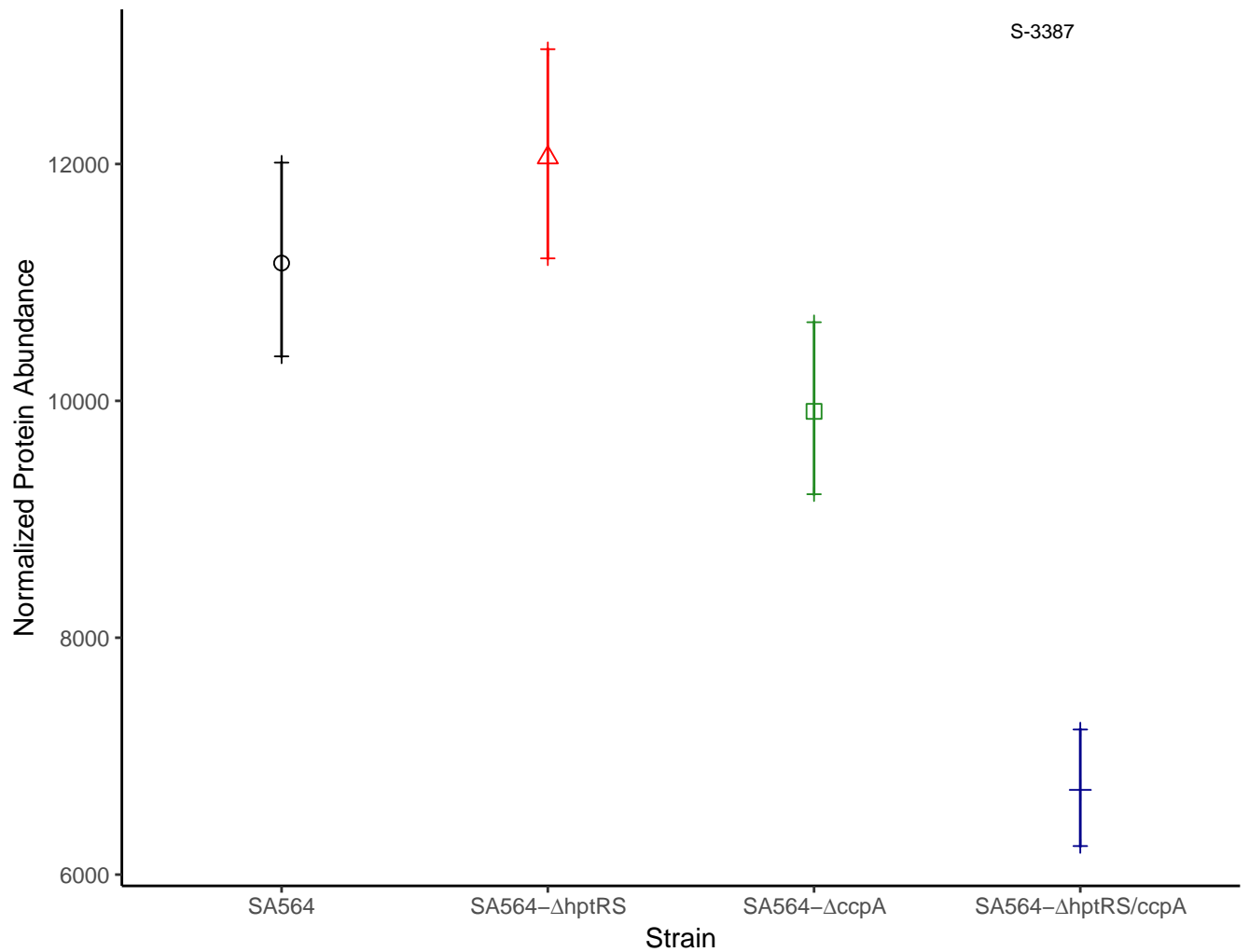
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SARA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

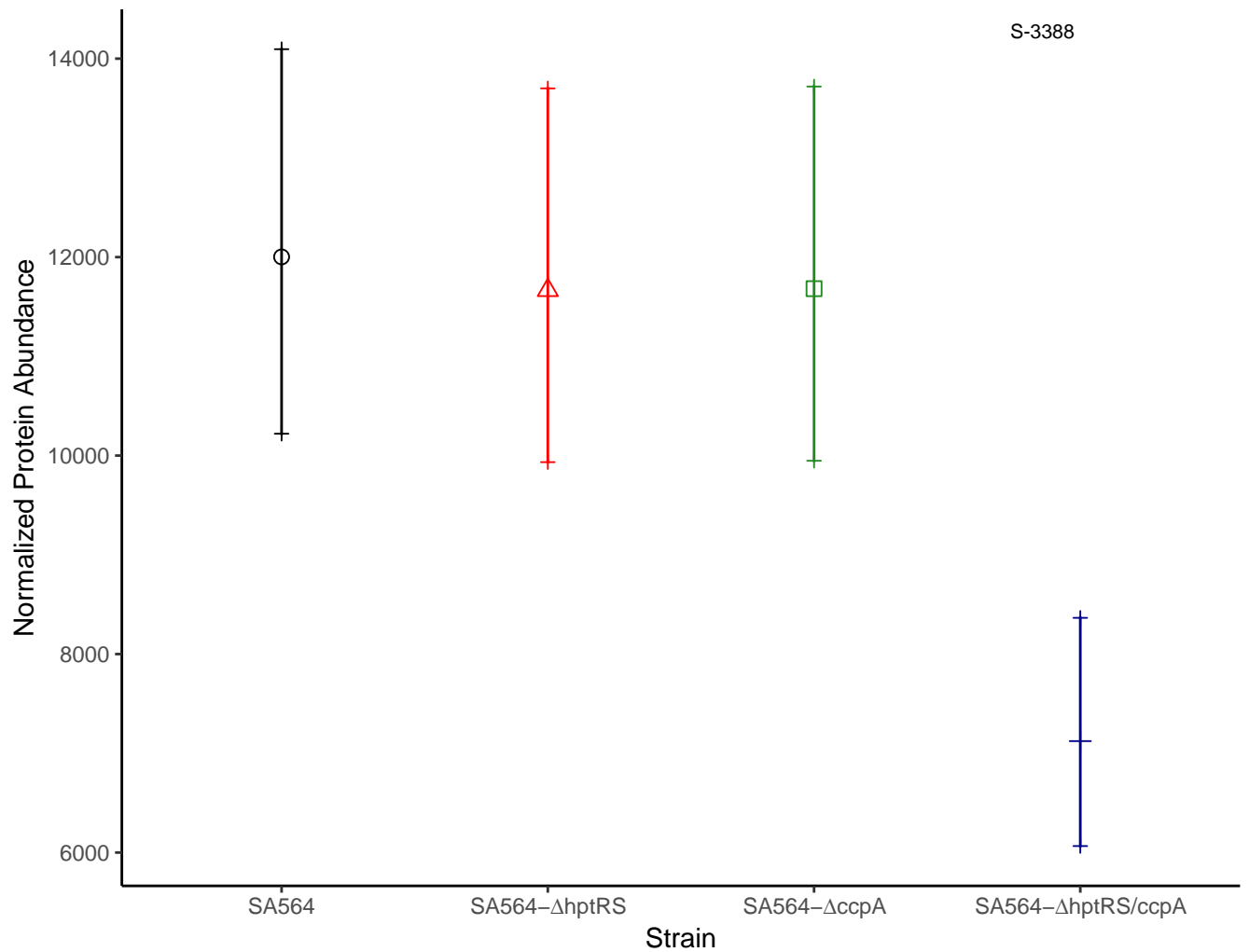
# SARR\_STAAM



S-3387

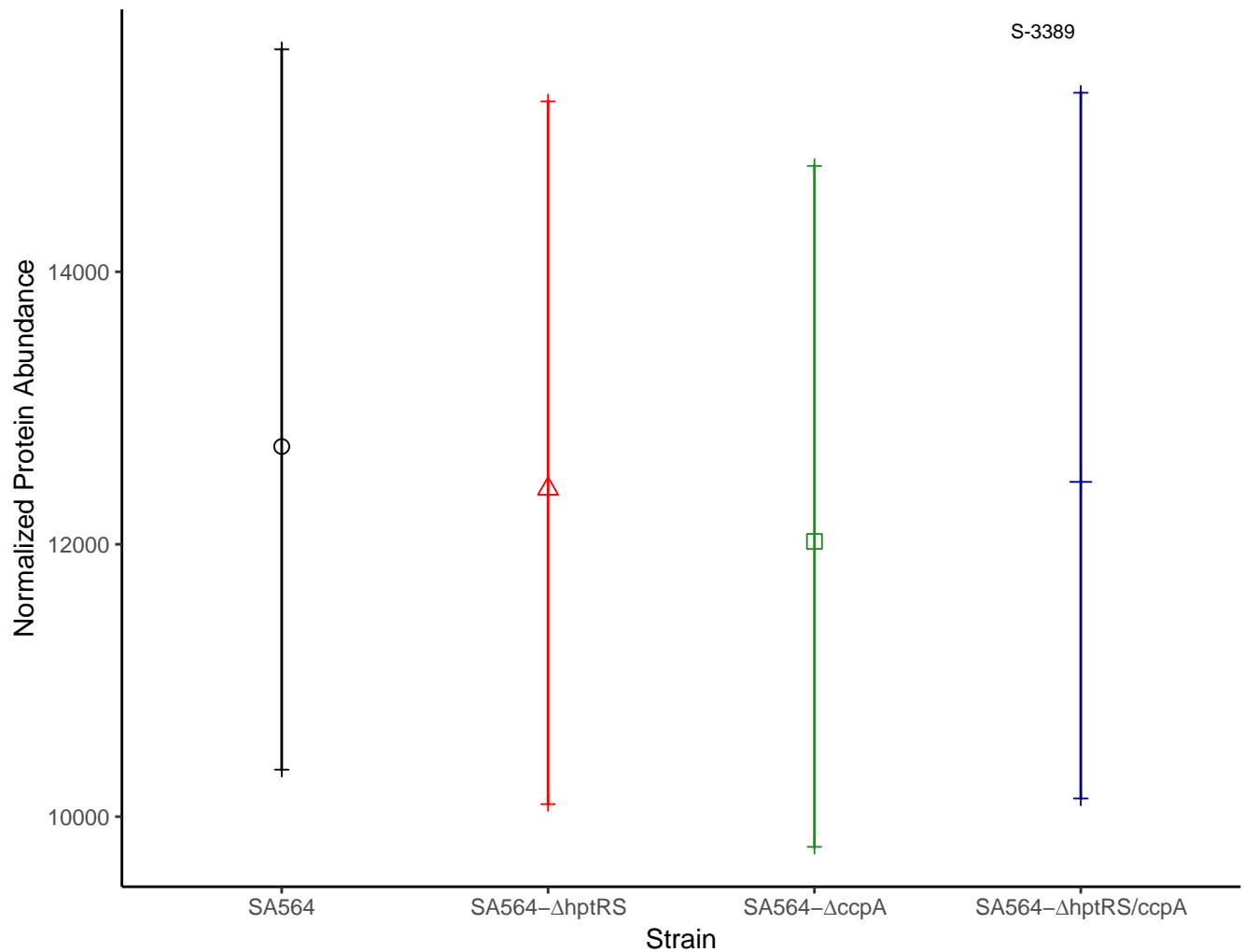
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SARS\_STAAM



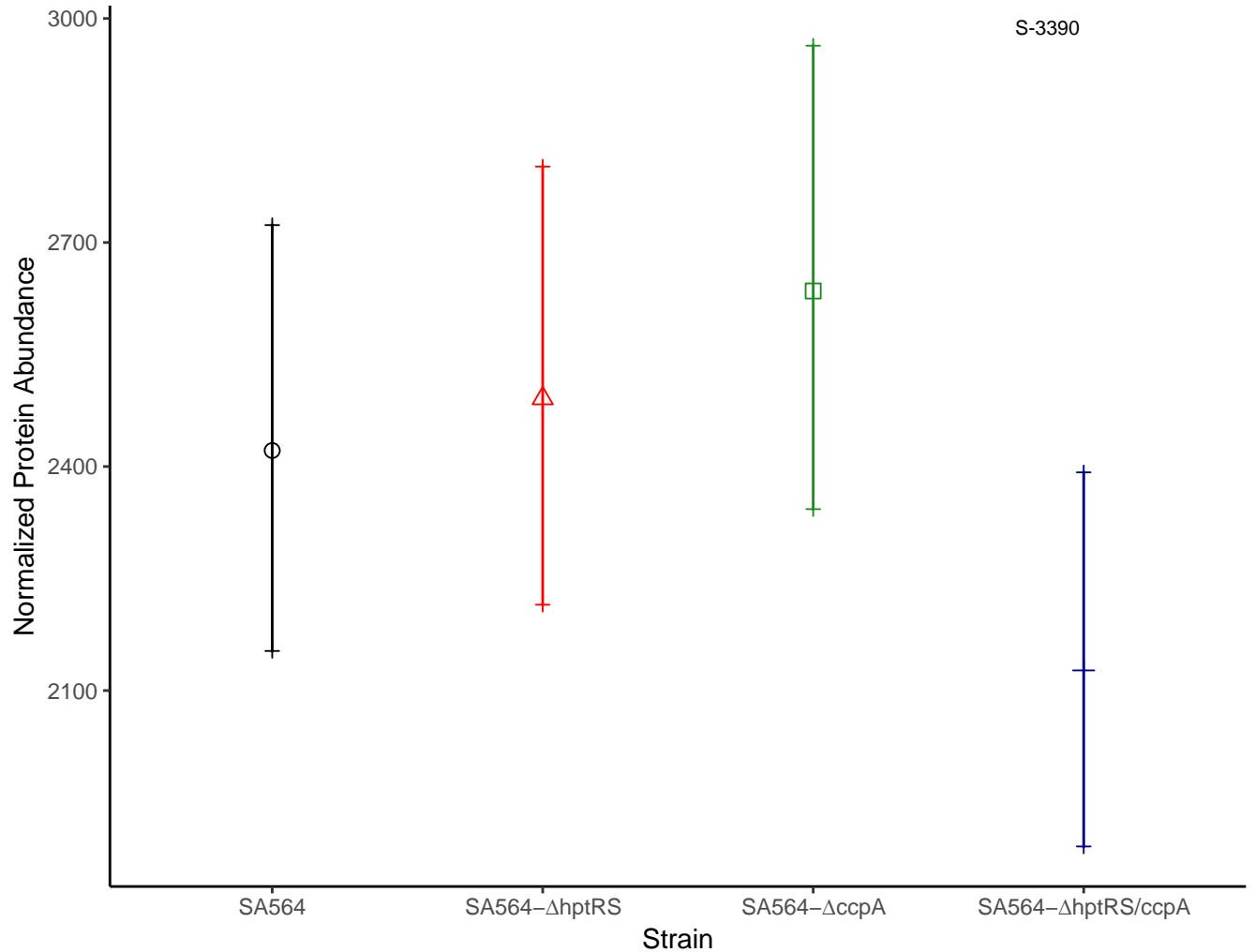
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SBCC\_STAAM



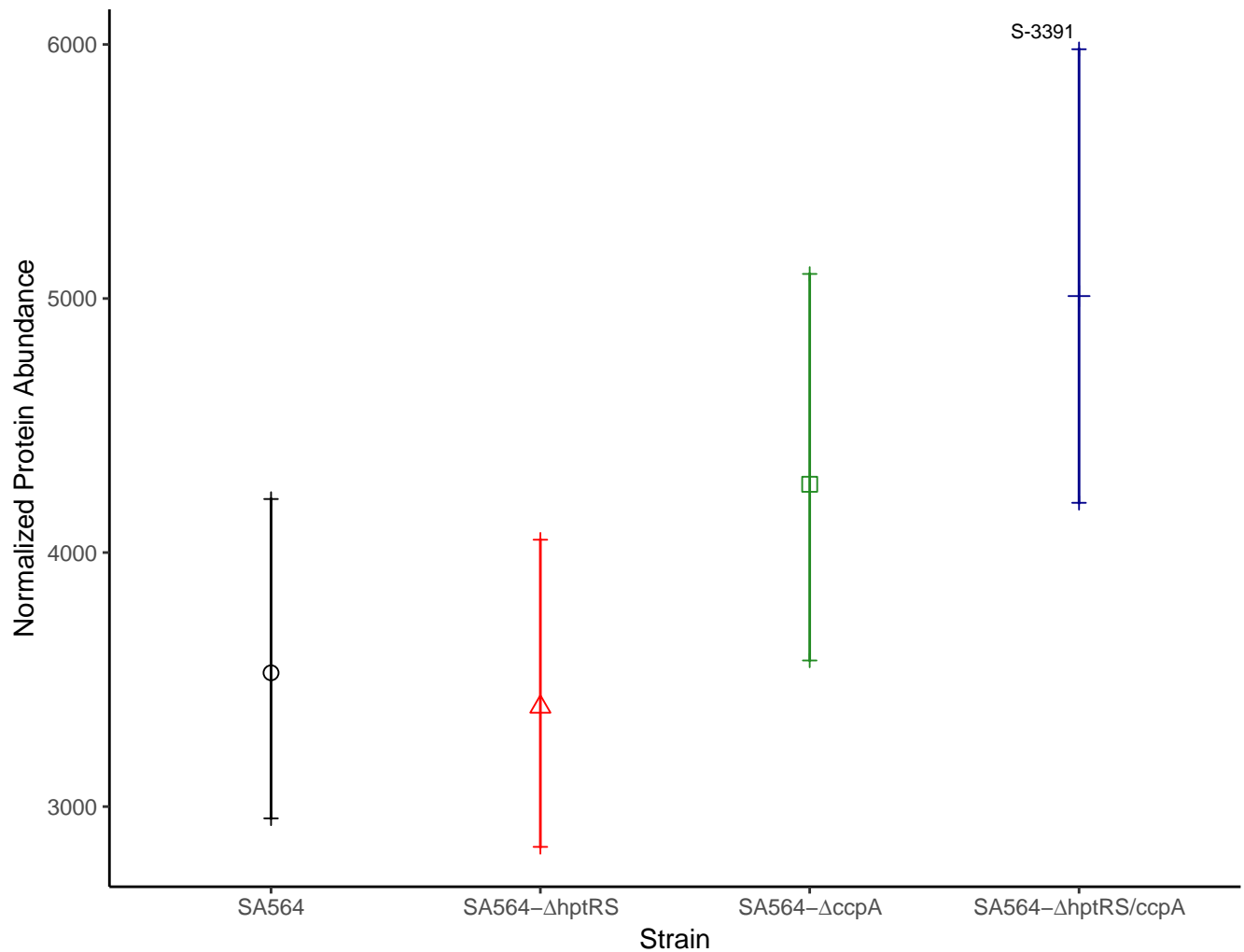
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SBI\_STAAM



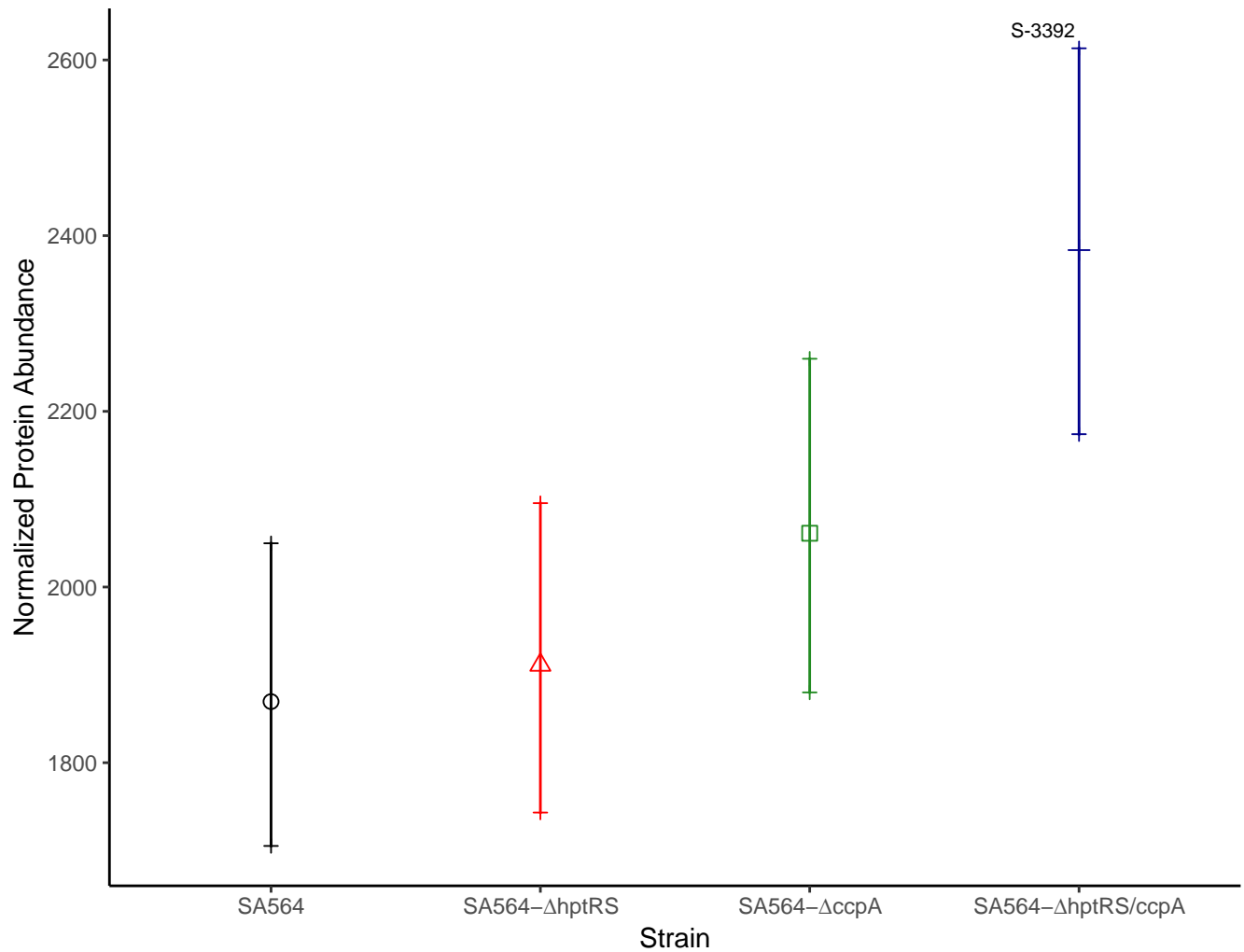
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SCPA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

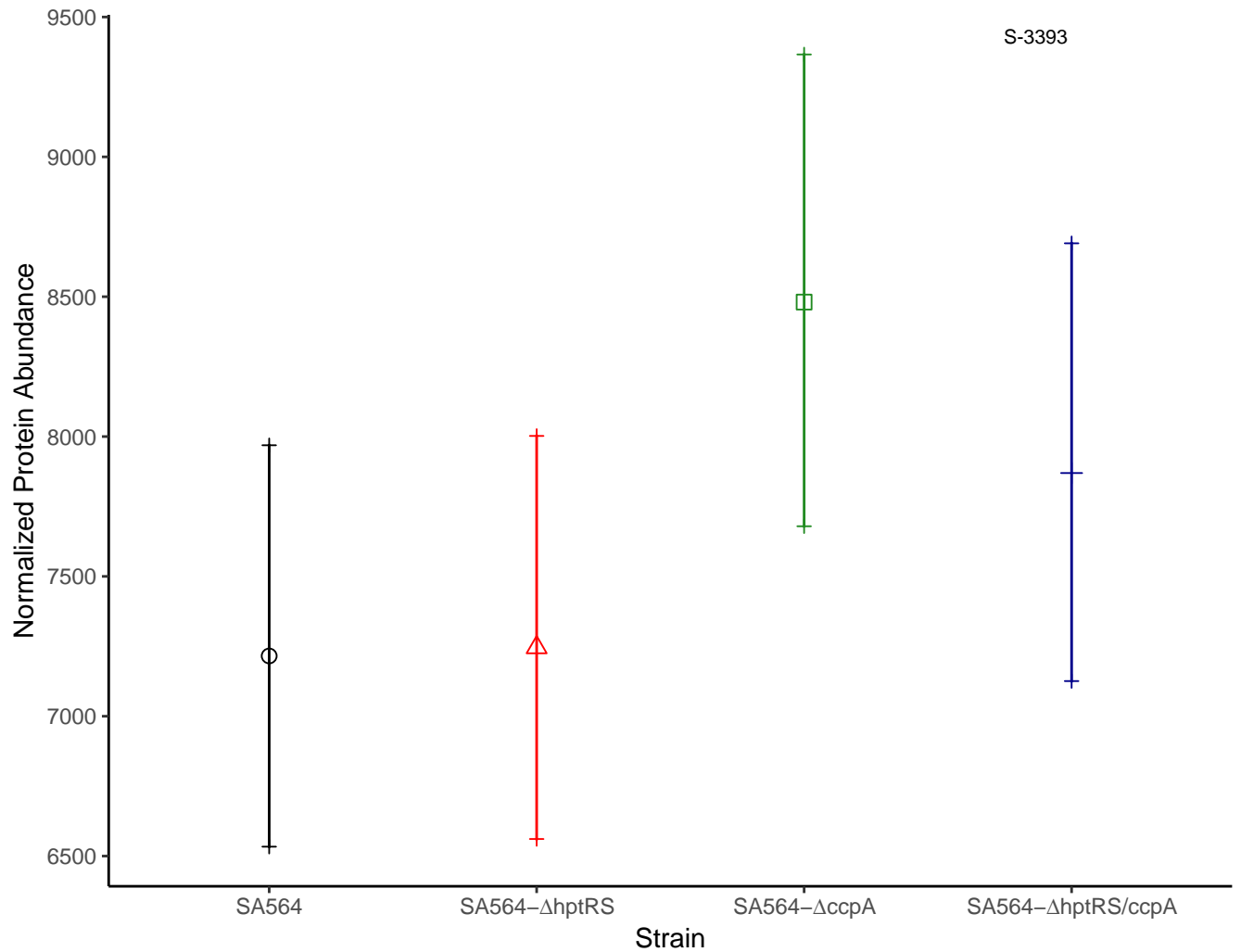
# SCPB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



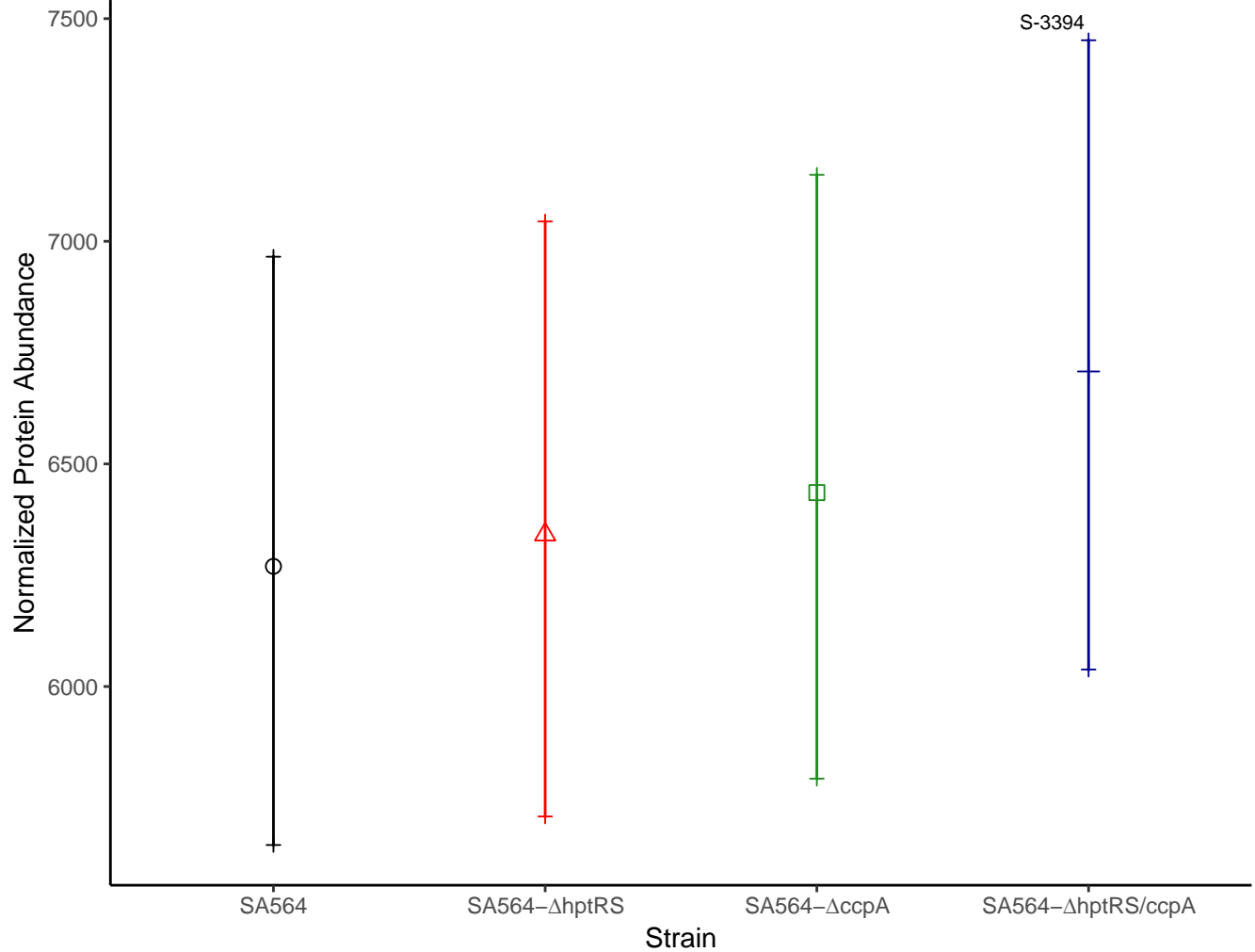
# SECA1\_STAAM



S-3393

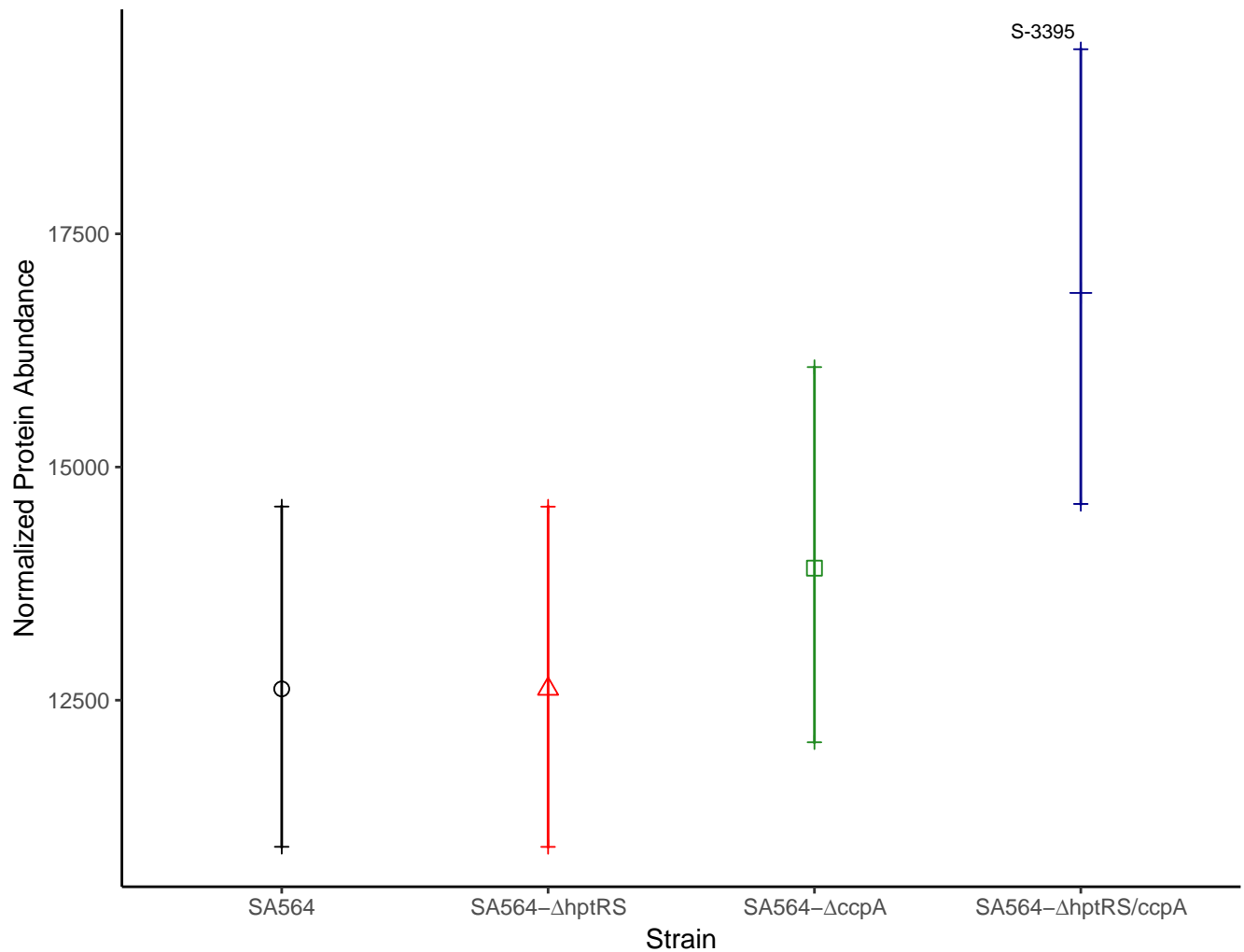
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SIGA\_STAAM



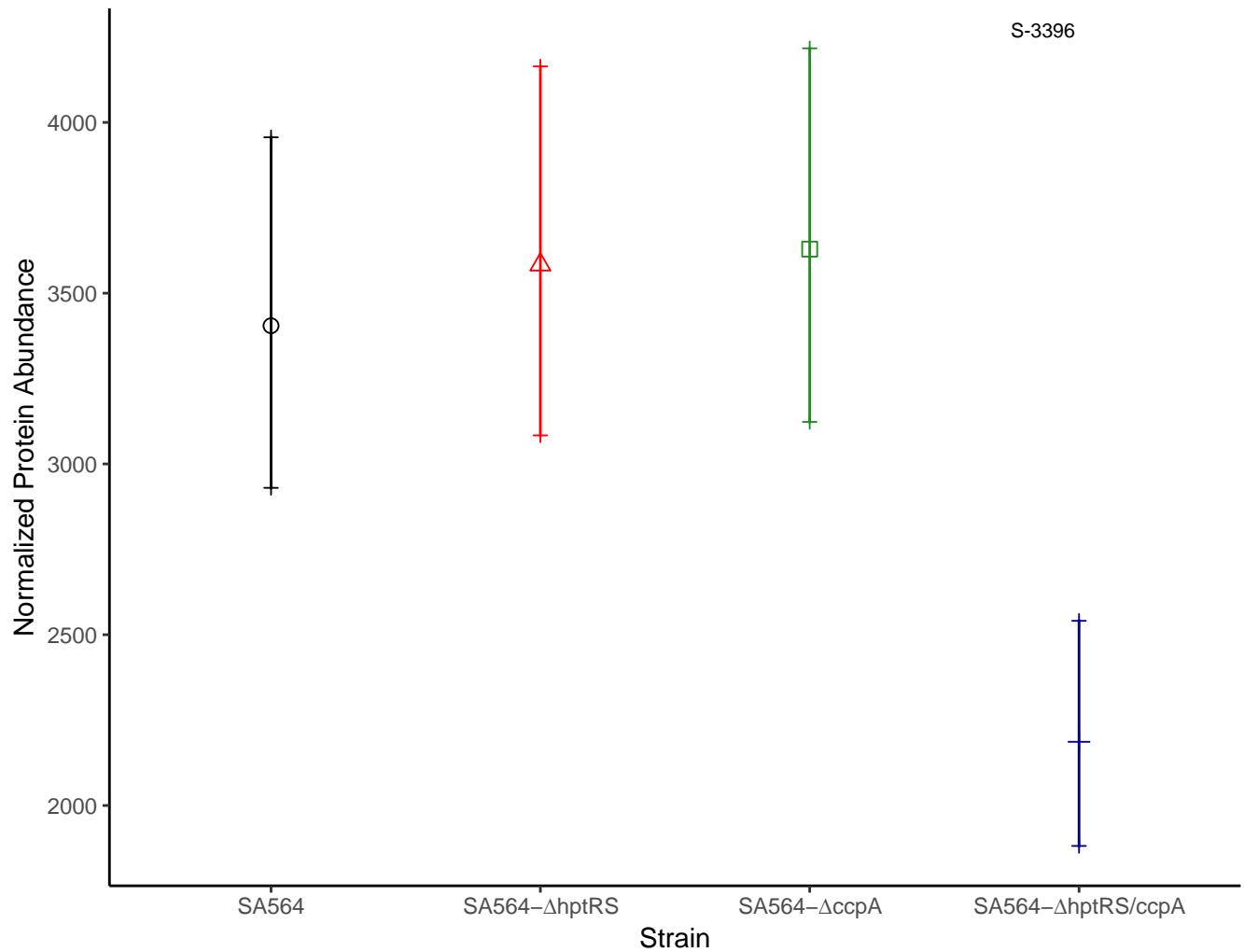
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# SODM1\_STAAM



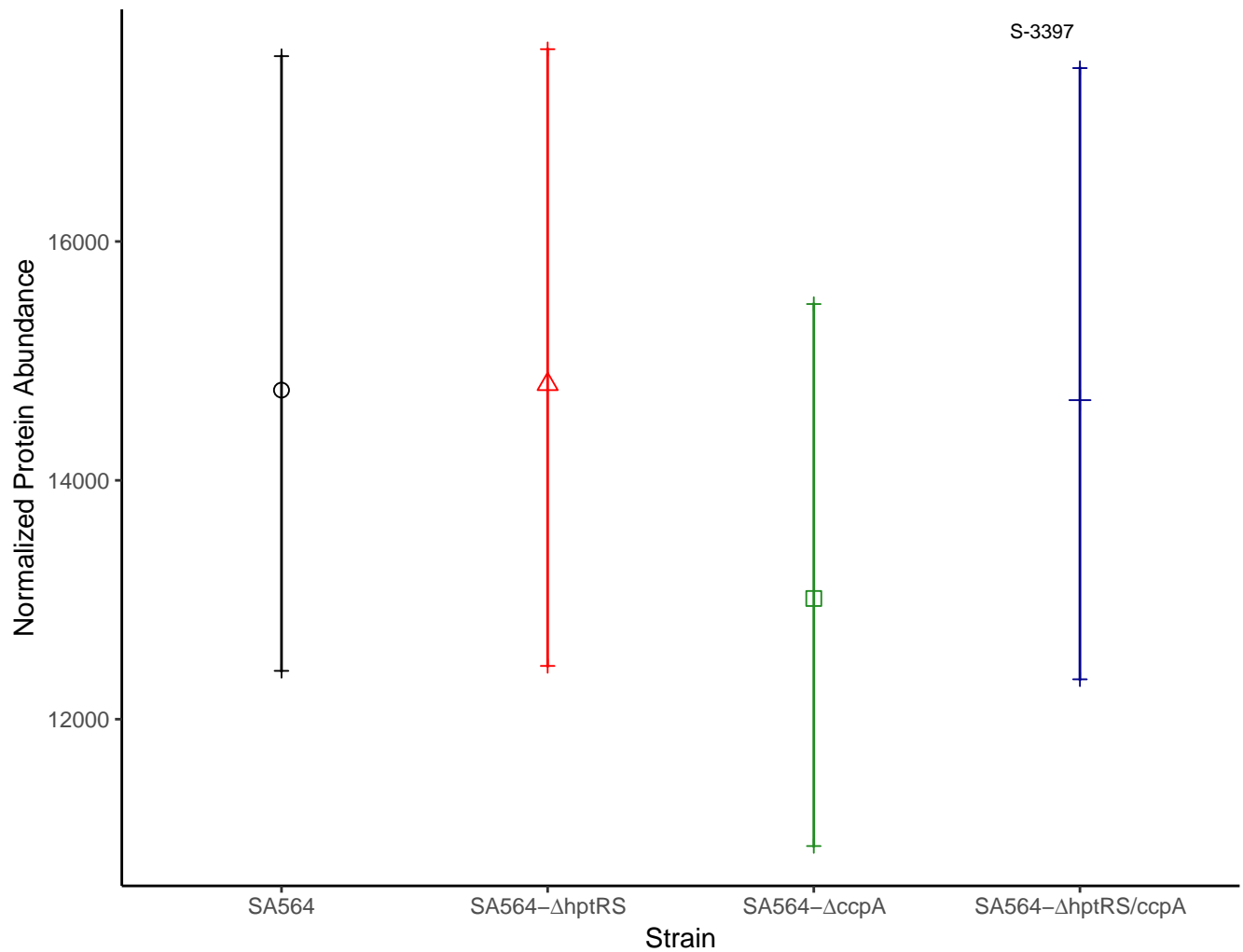
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SODM2\_STAAM



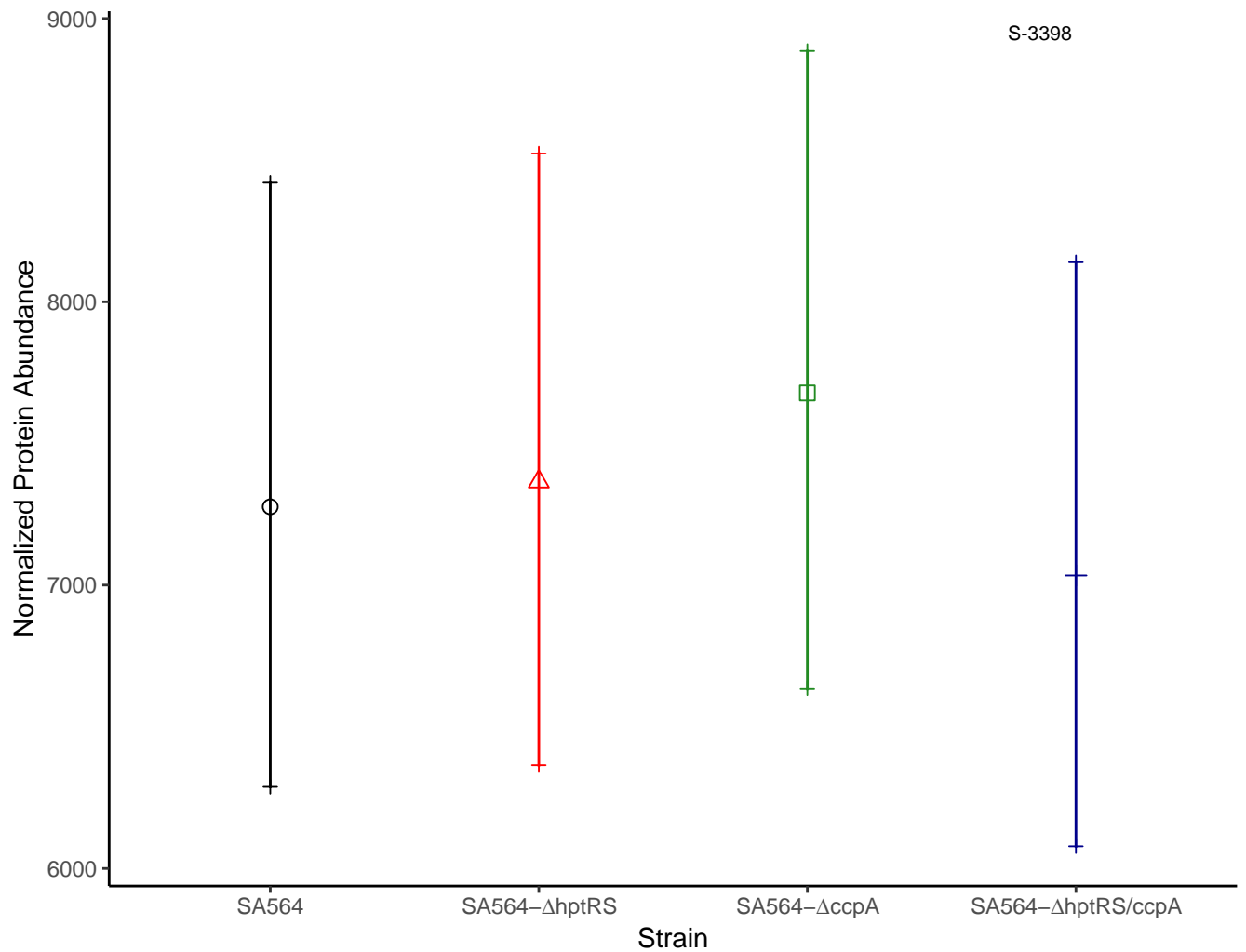
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SP5G\_STAAM



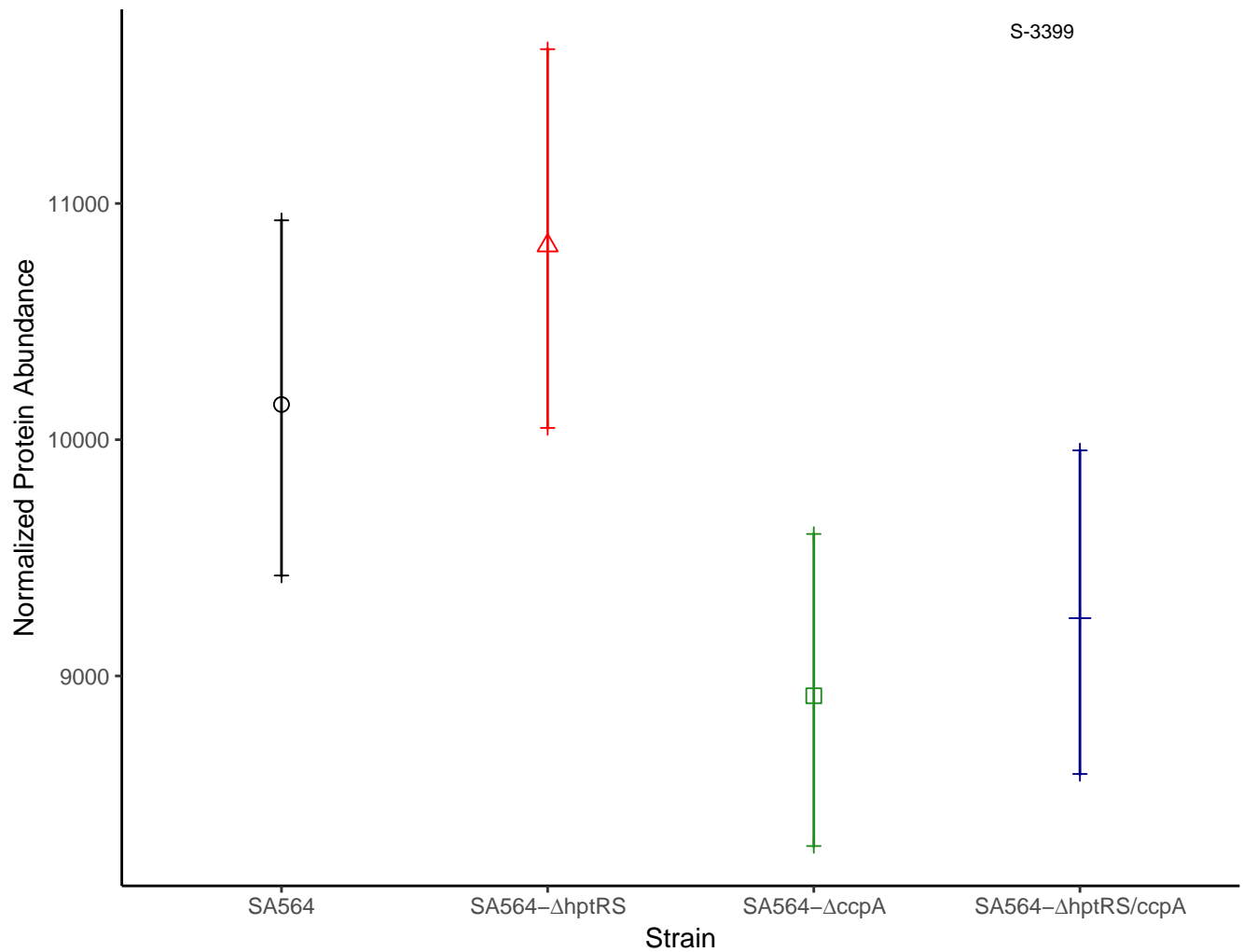
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

## SPA\_STAAM



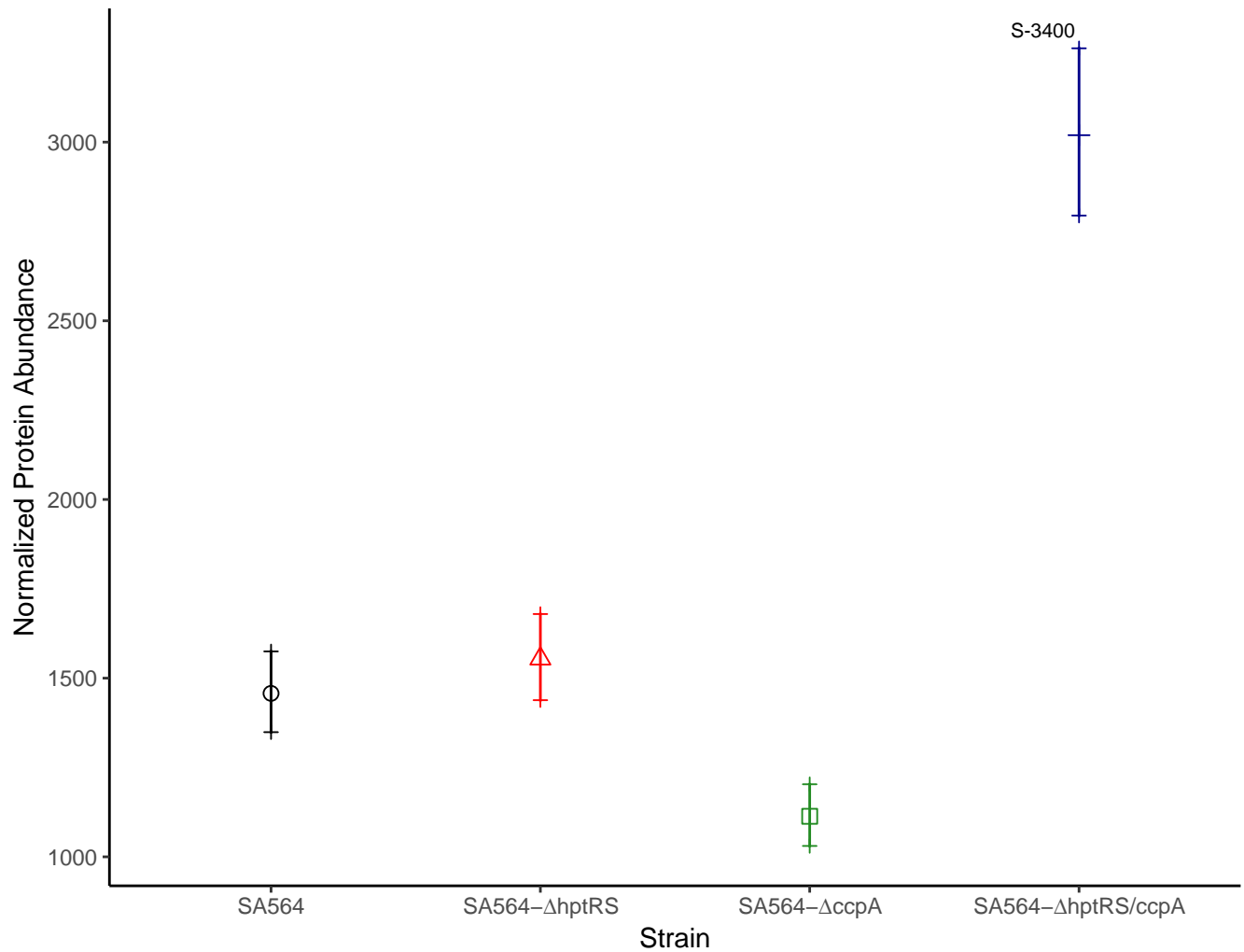
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SPLD\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

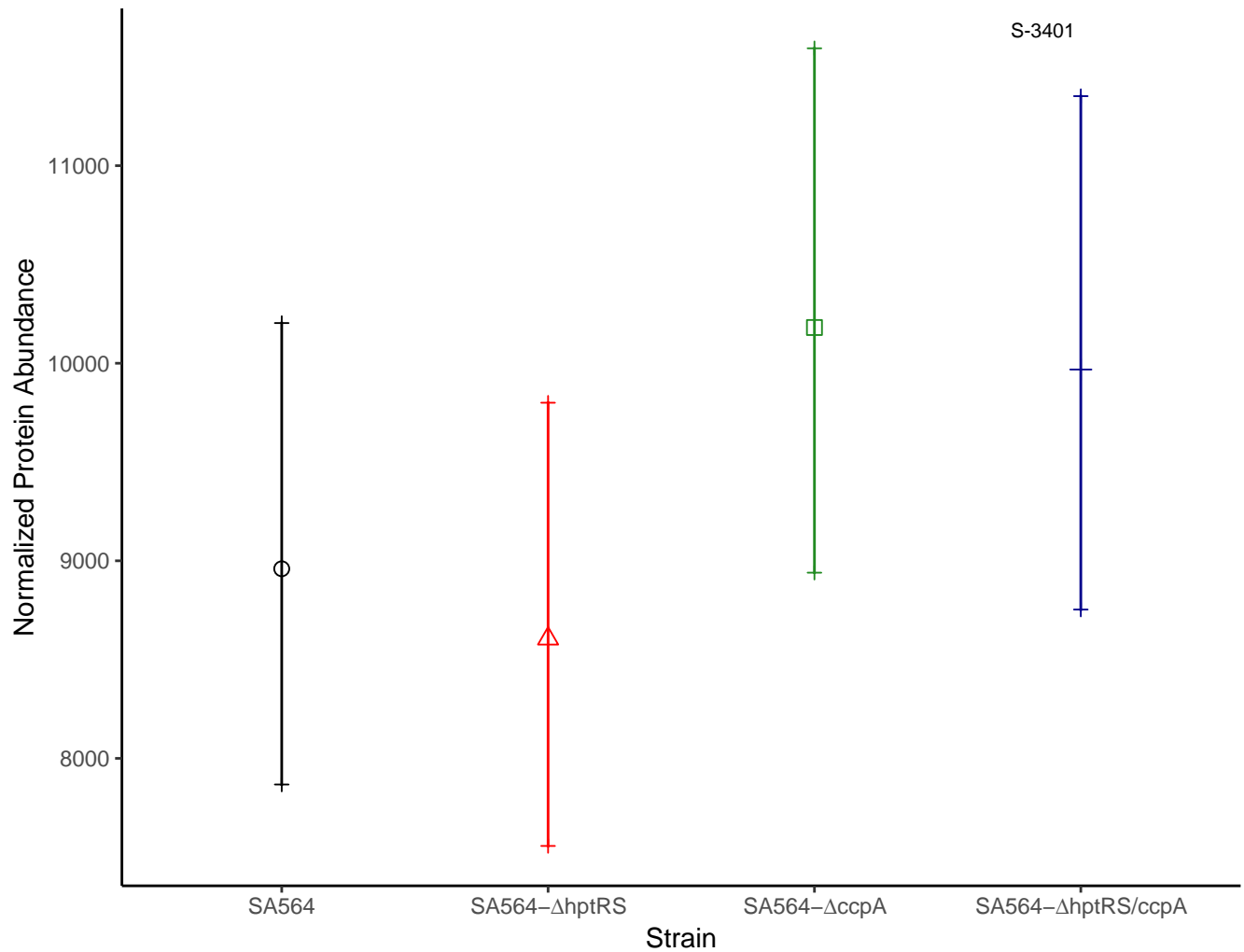
# SPX\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

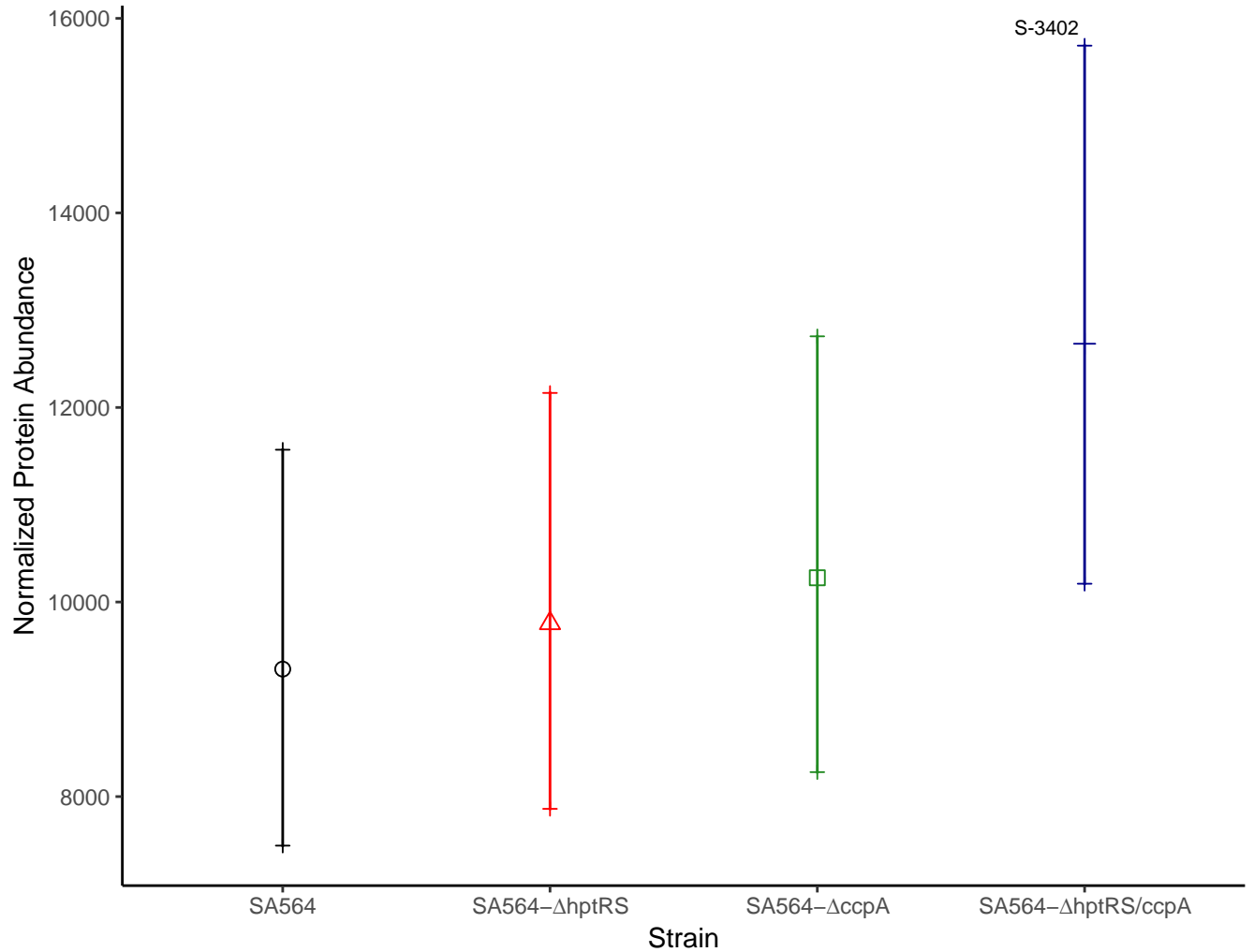


# SRRR\_STAAM



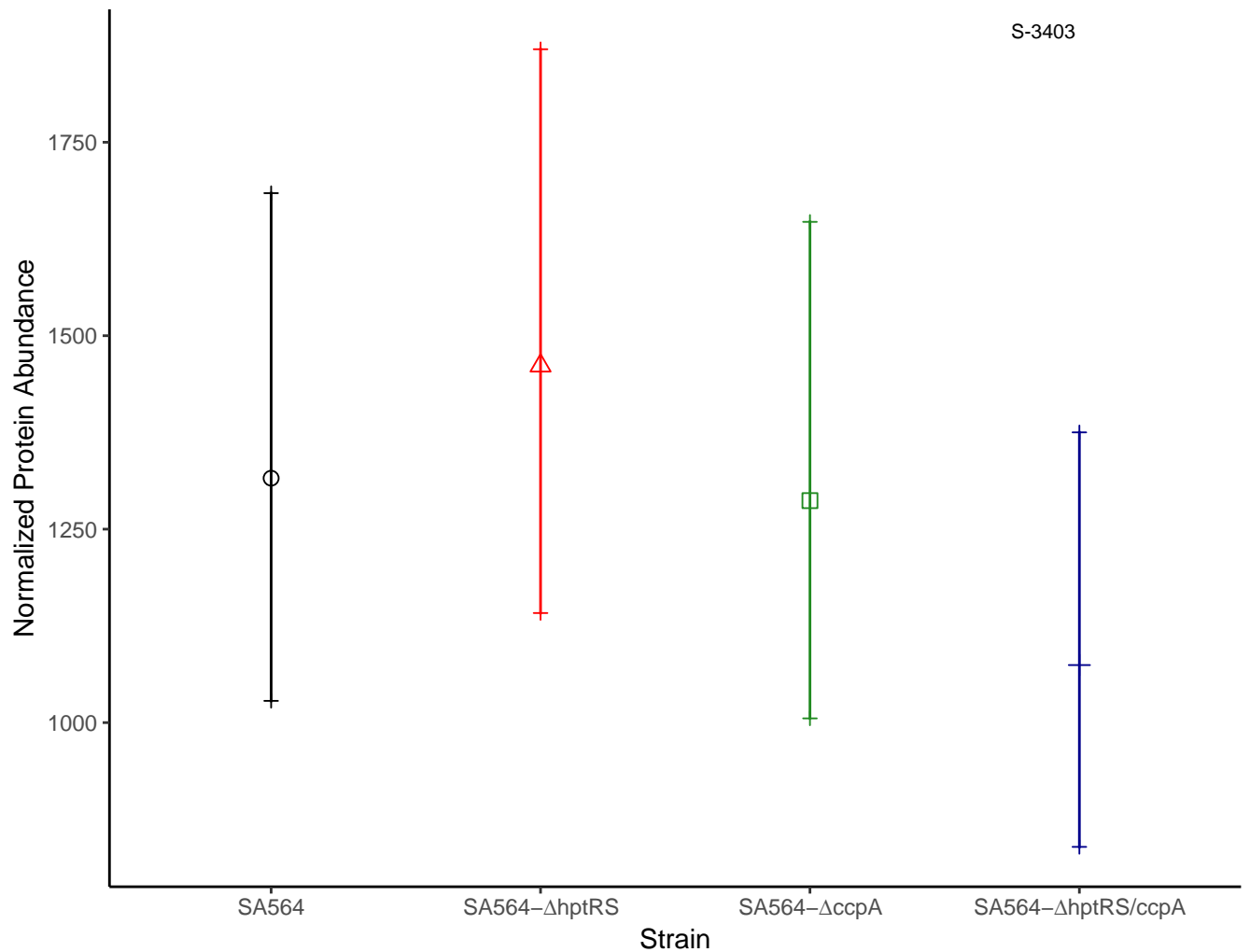
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SSAA2\_STAAM



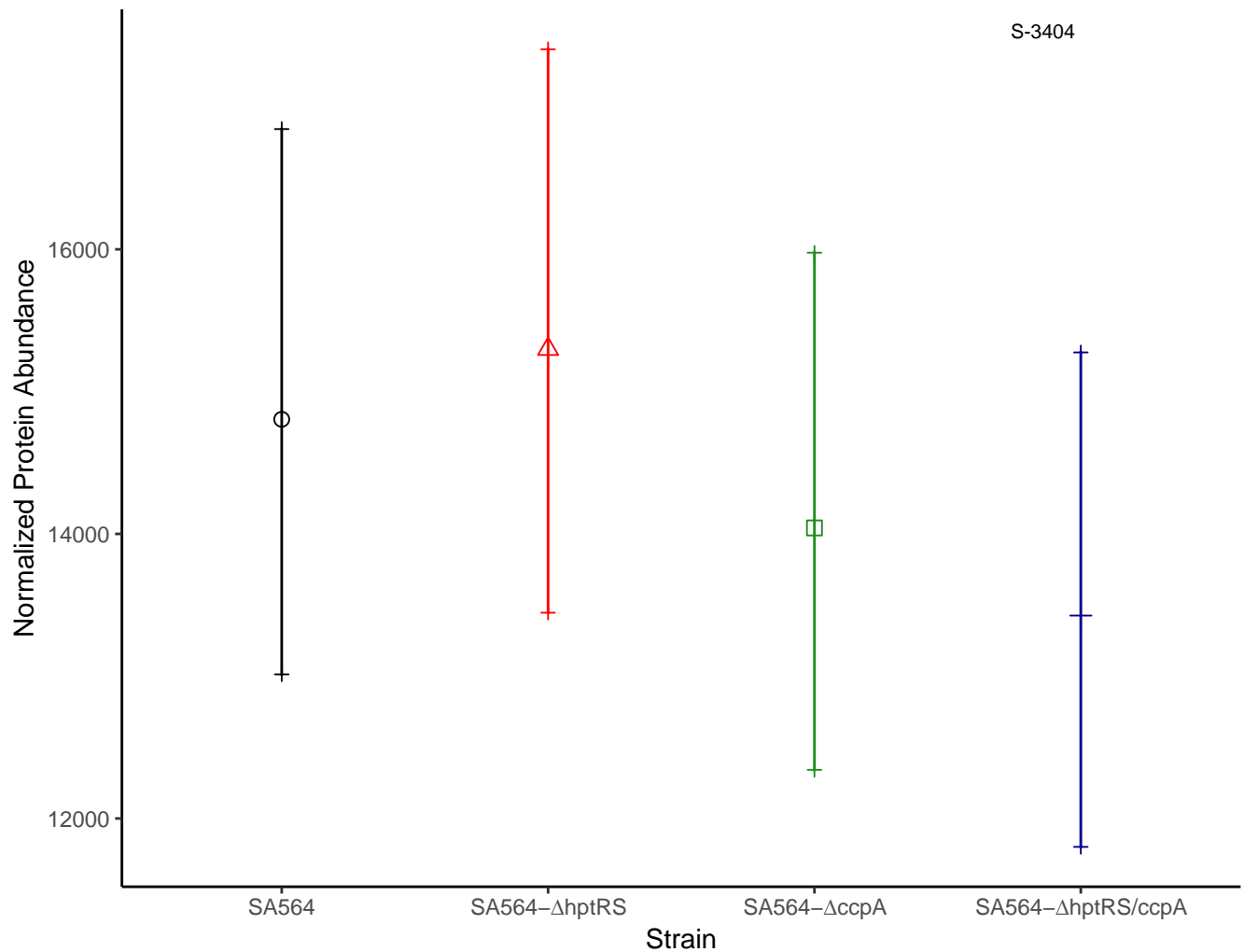
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SSB1\_STAAM



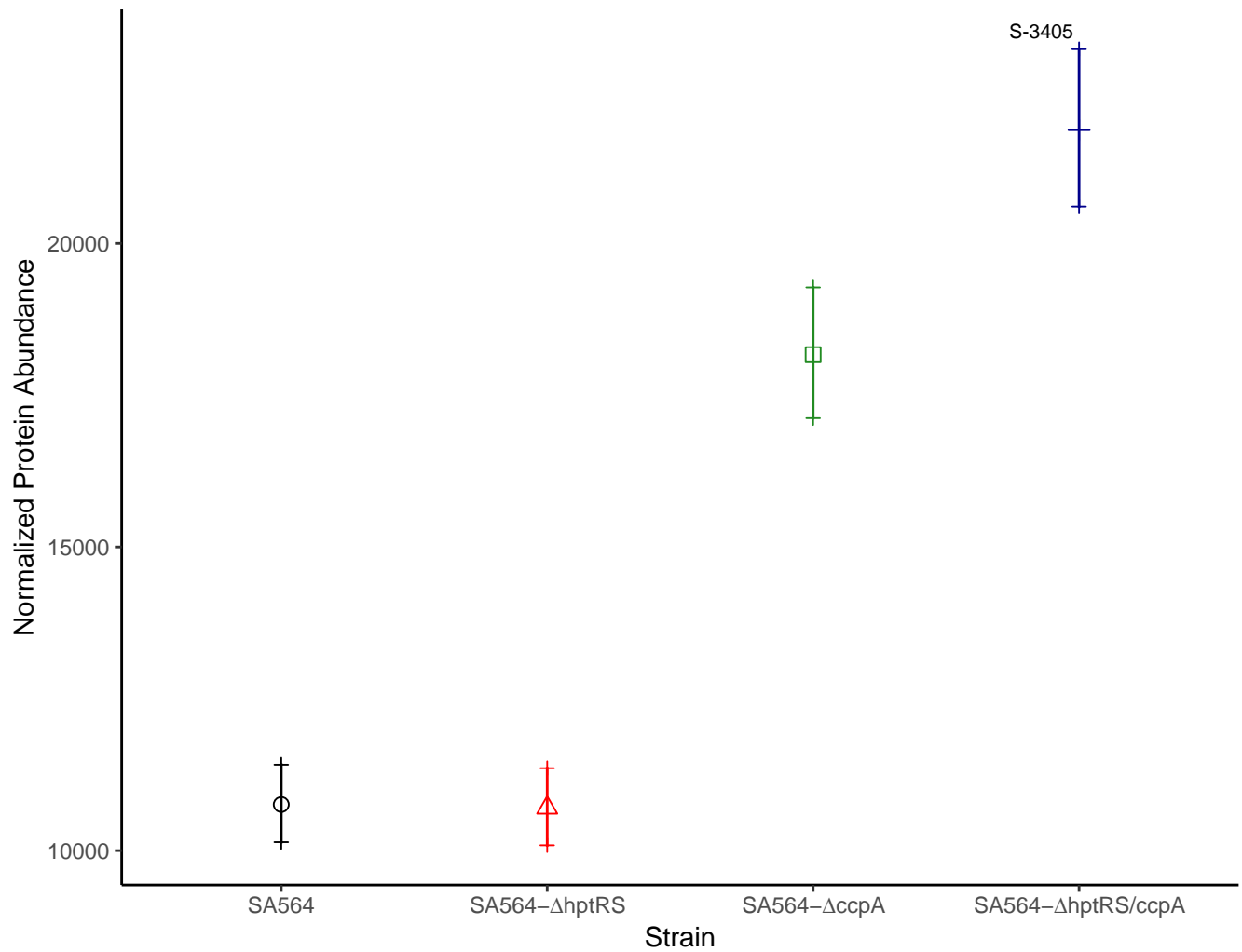
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SSB2\_STAAM



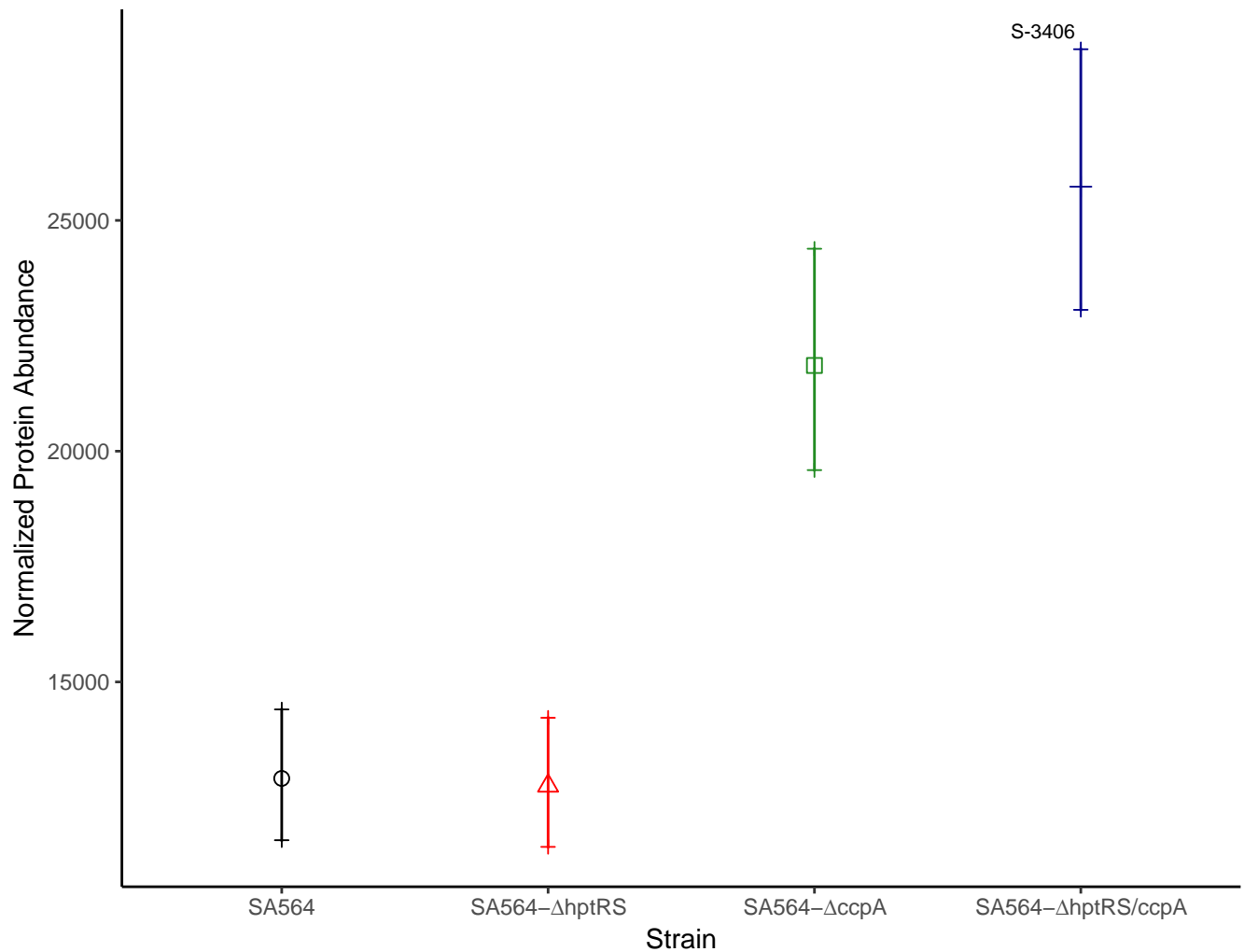
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SUCC\_STAAM



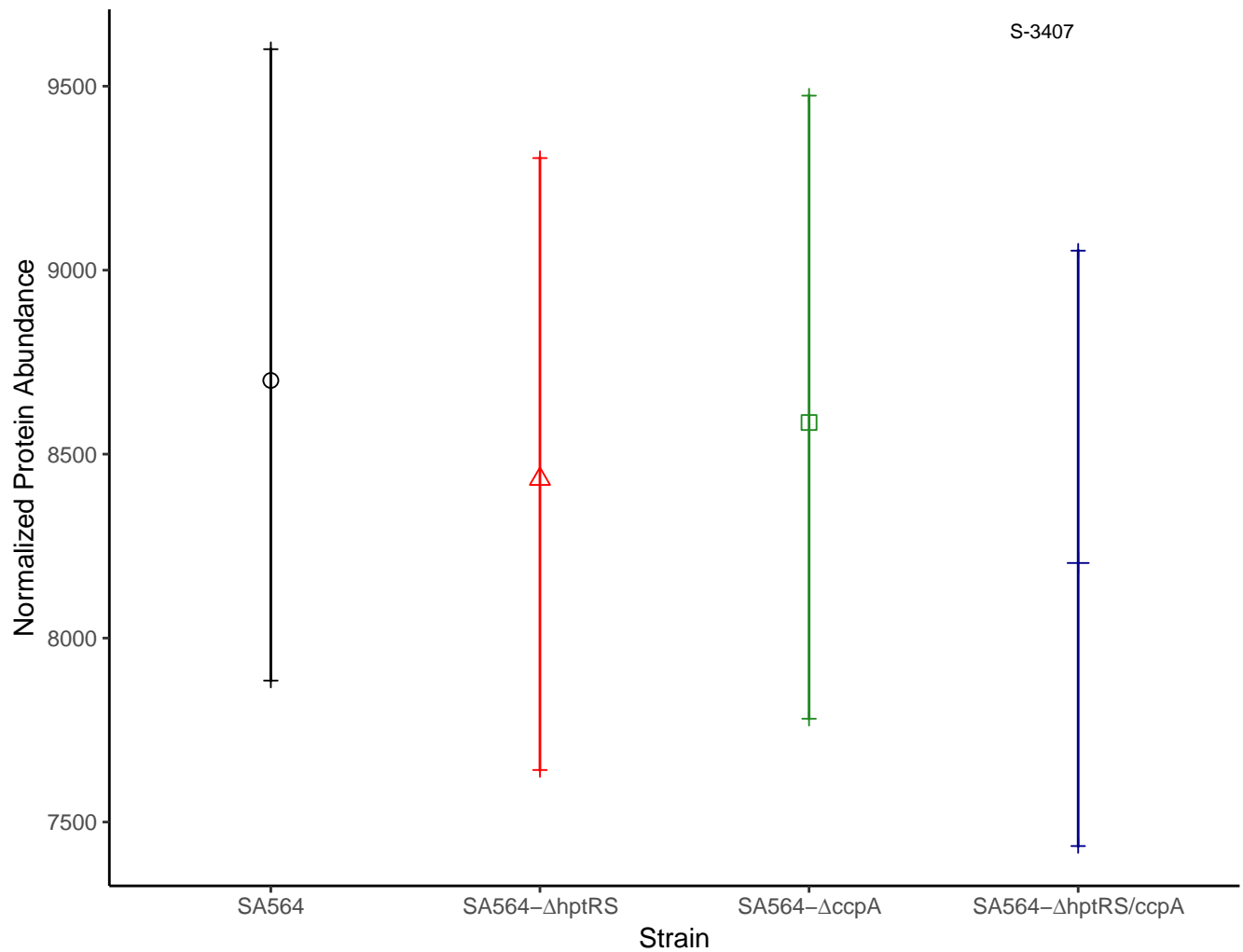
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SUCD\_STAAM



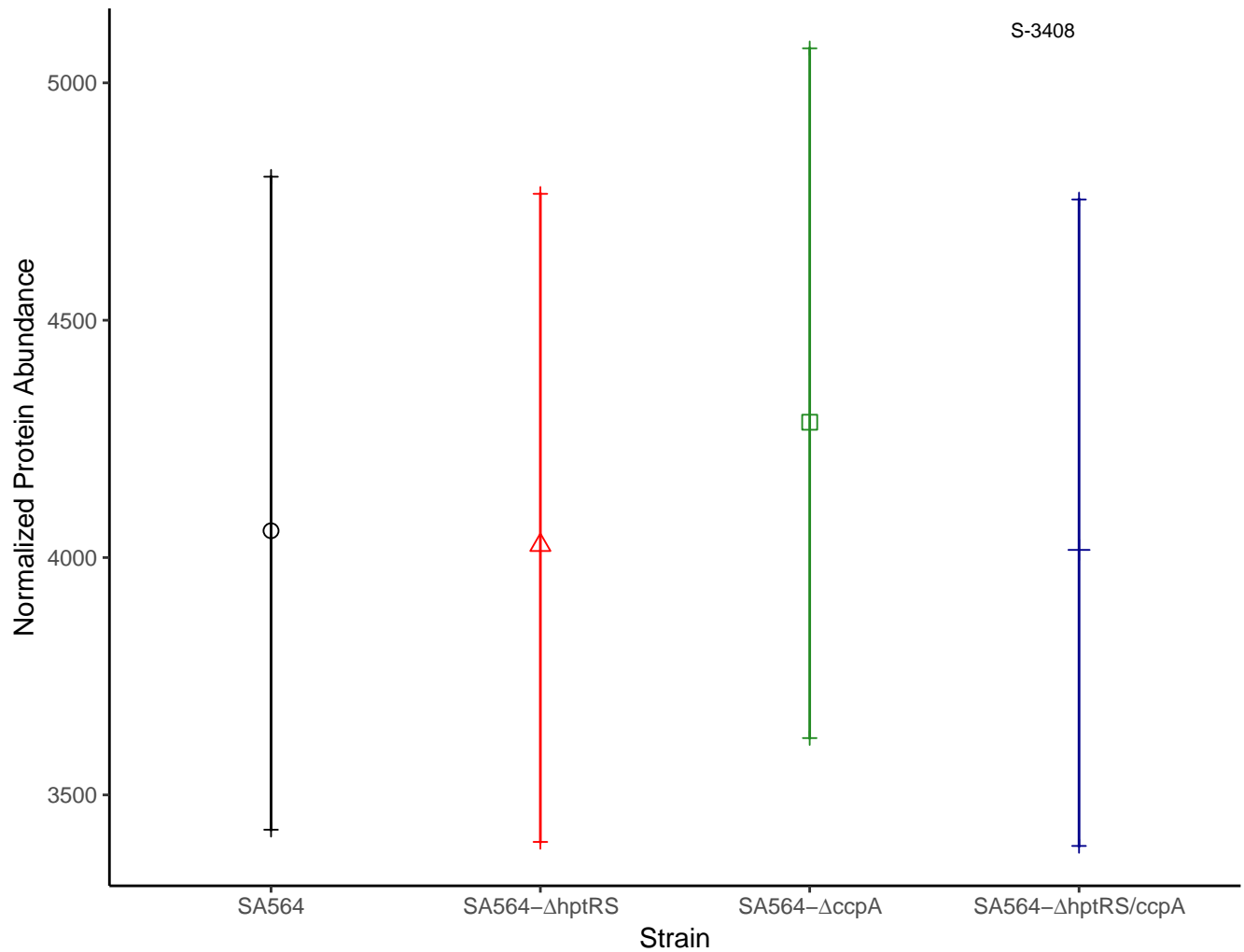
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

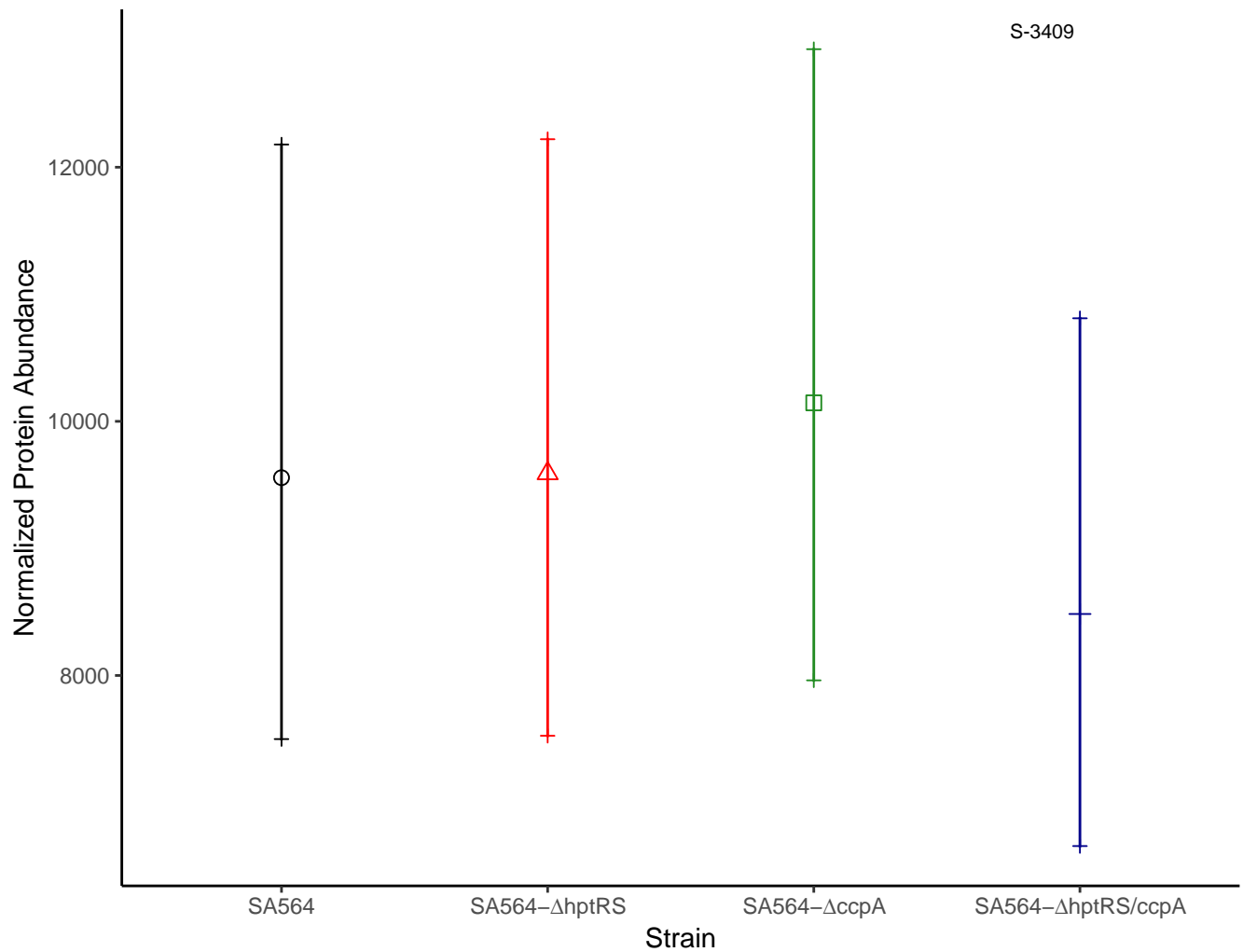
# SYC\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

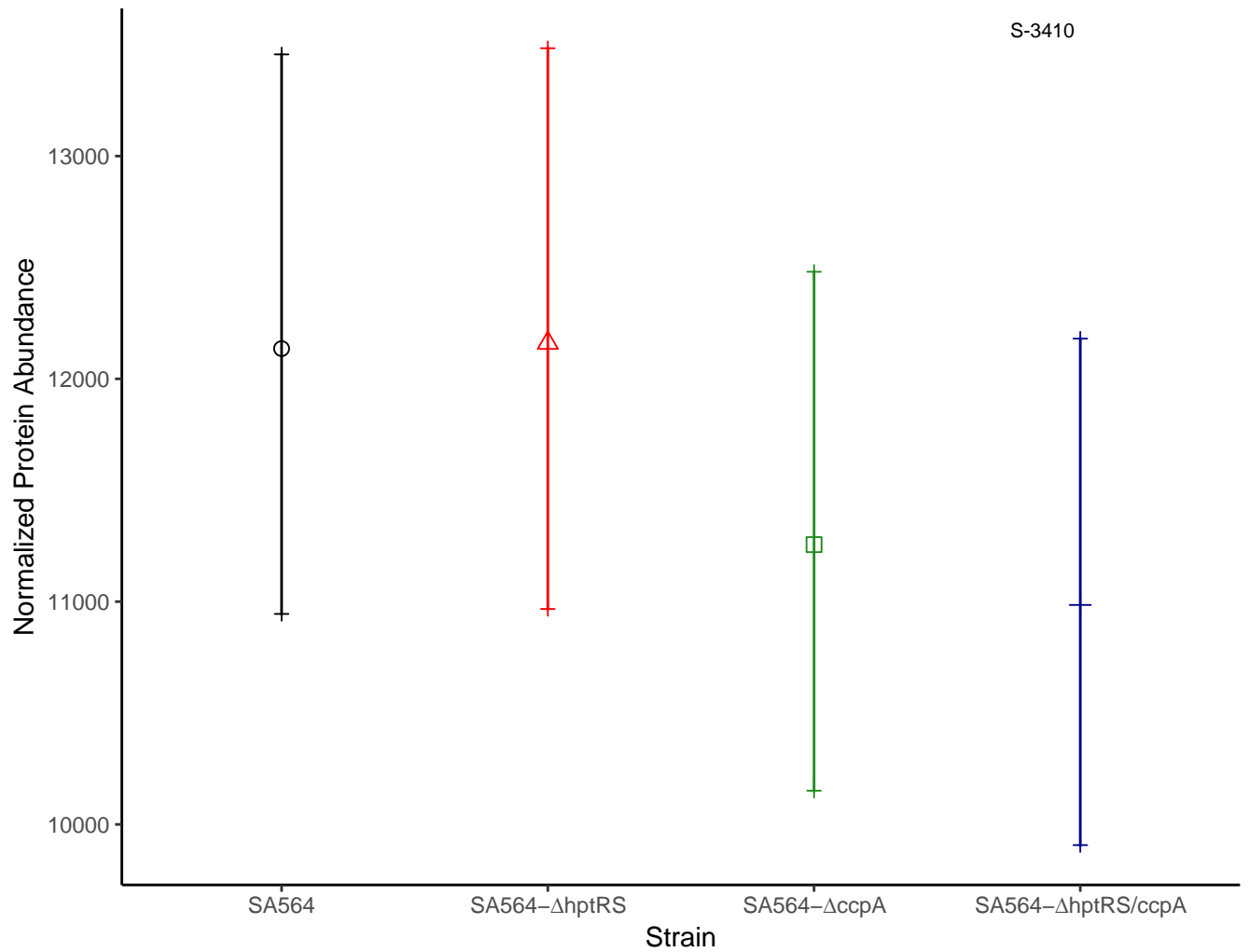


# SYD\_STAAM



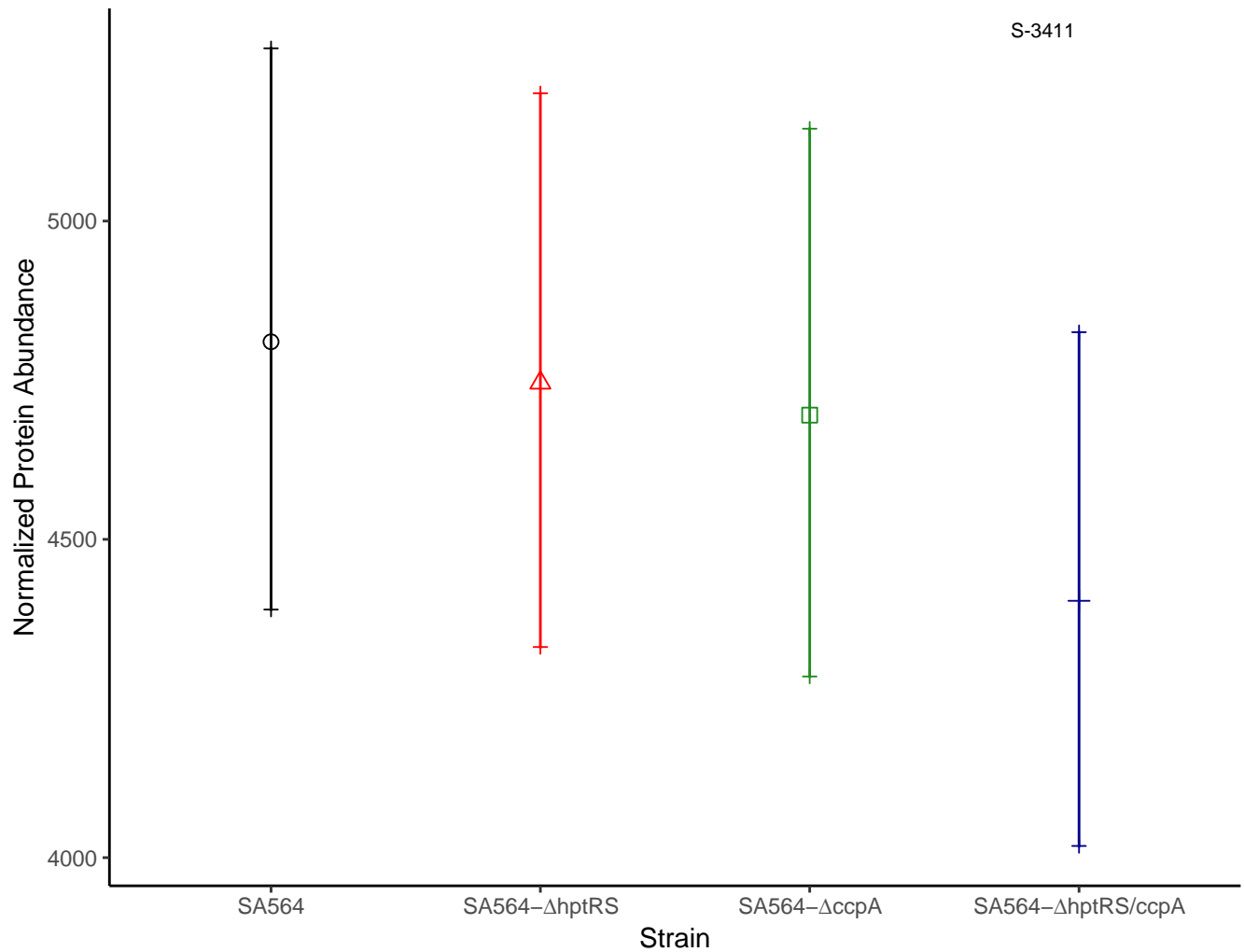
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYE\_STAAM



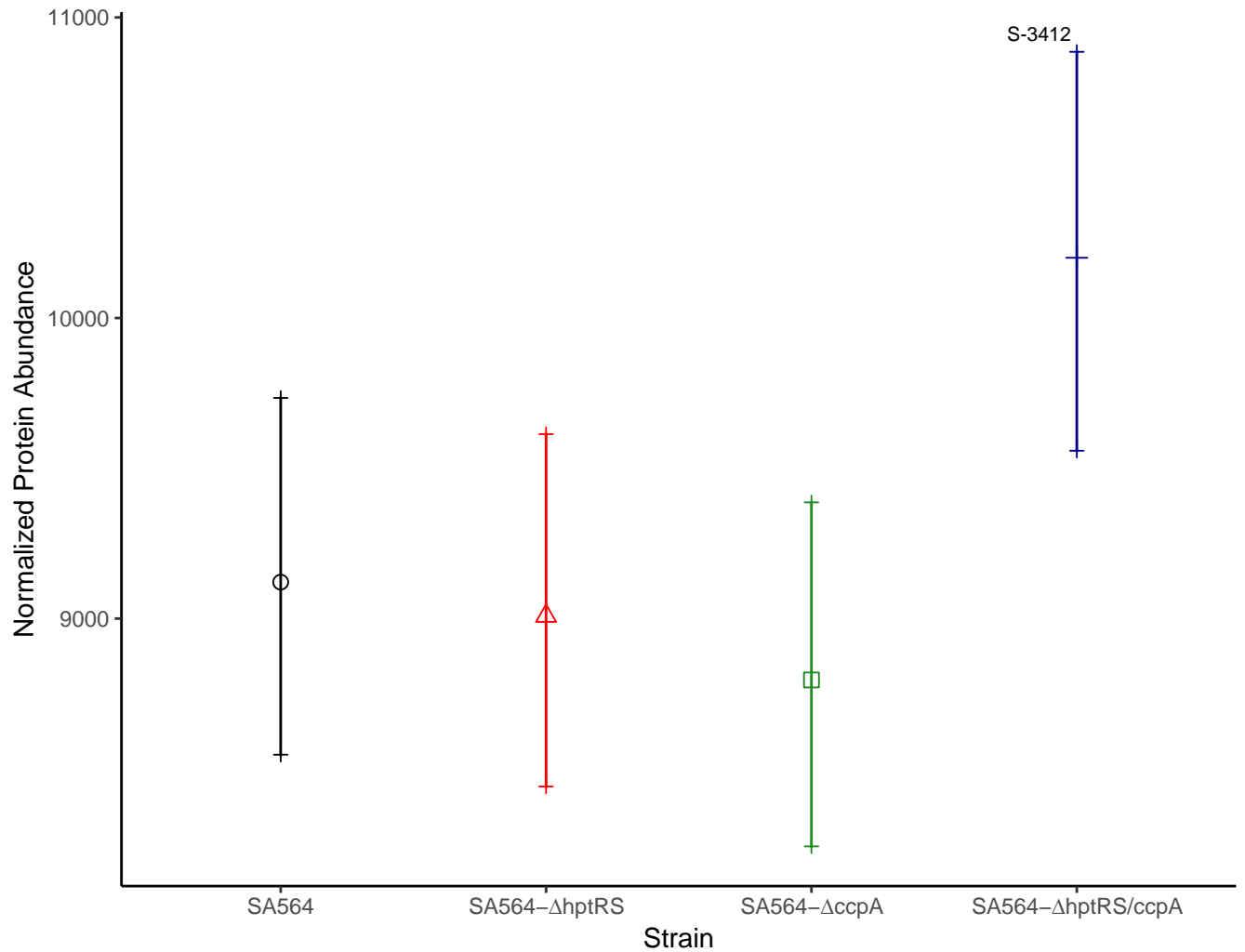
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYFB\_STAAM



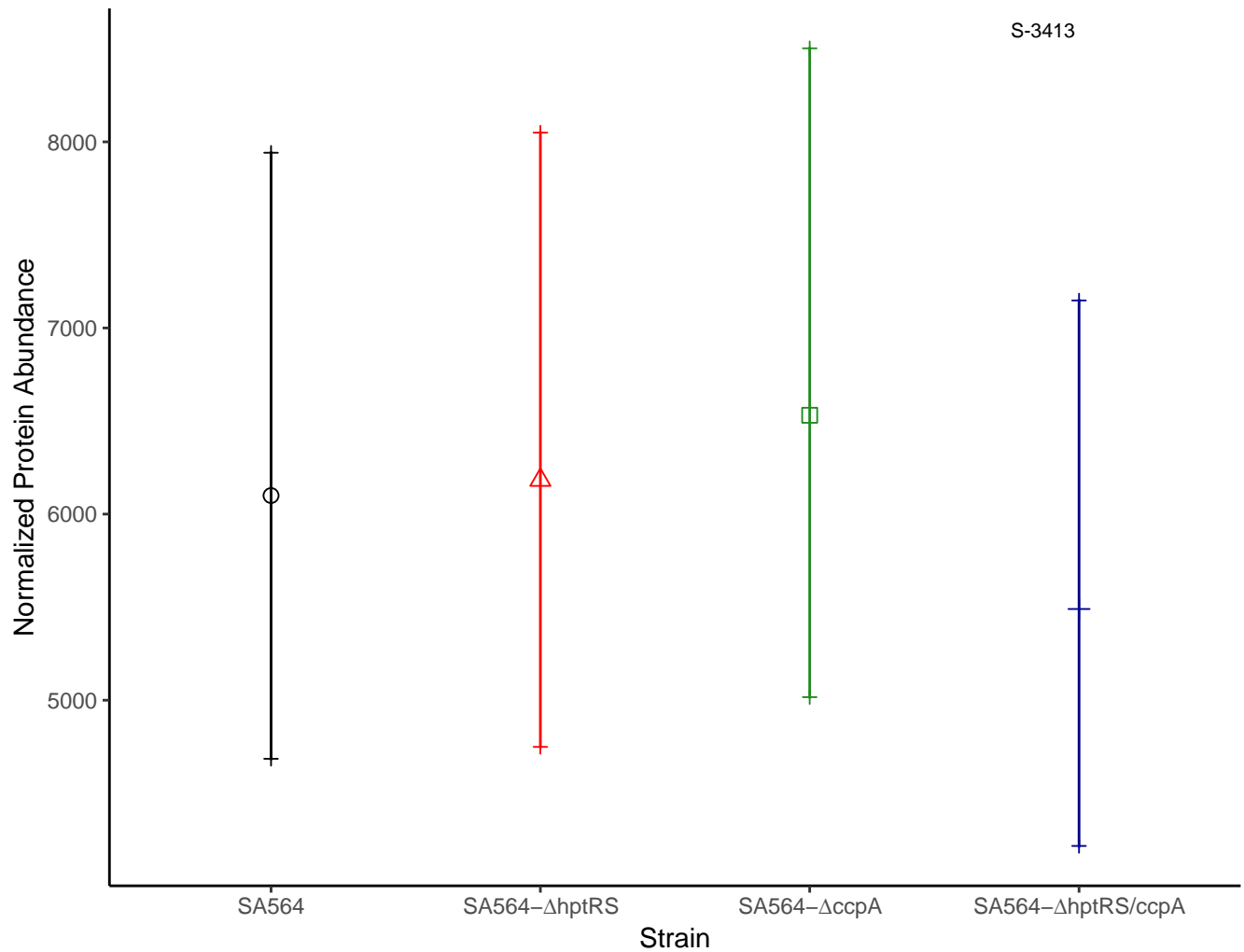
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYG\_STAAM



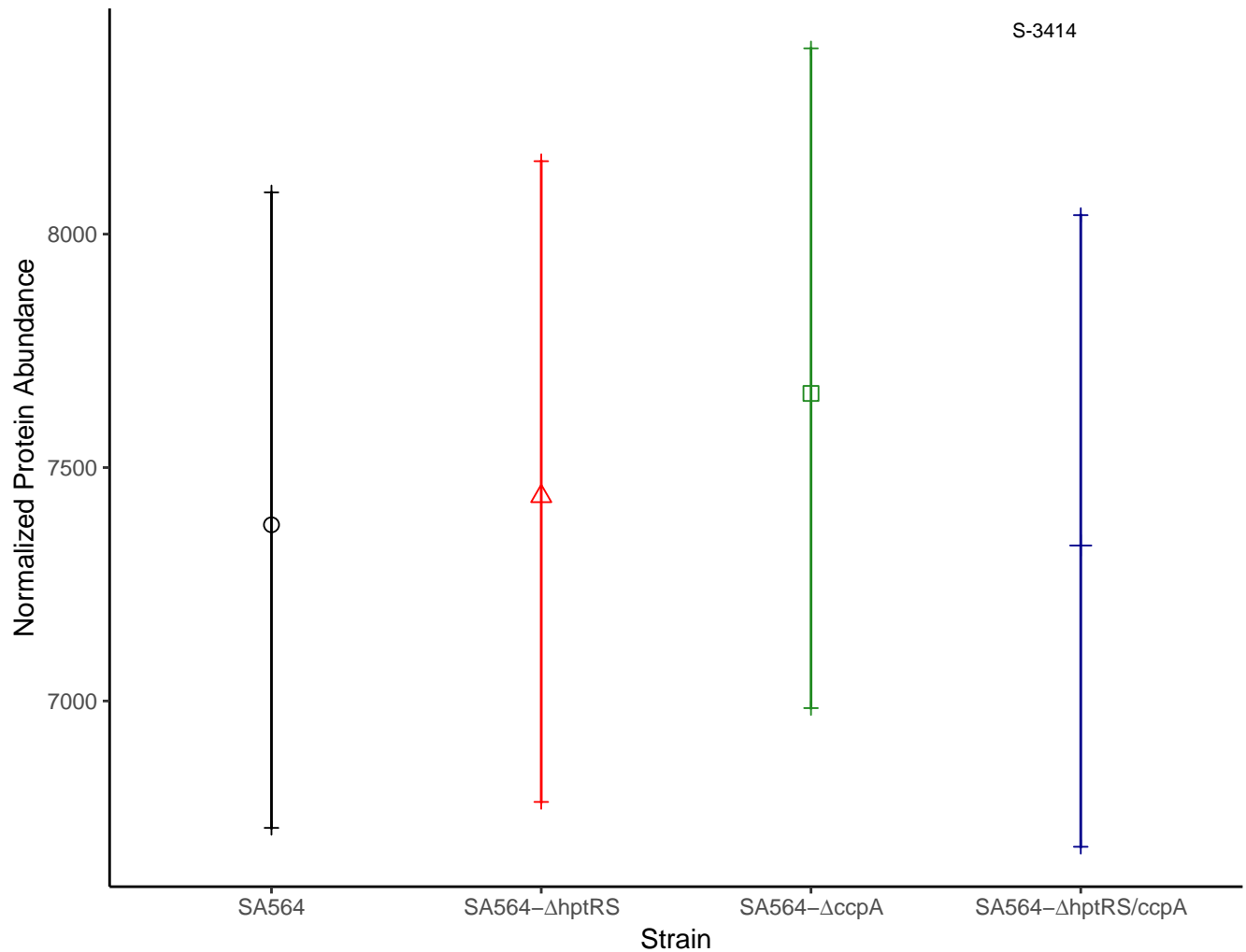
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYH\_STAAM



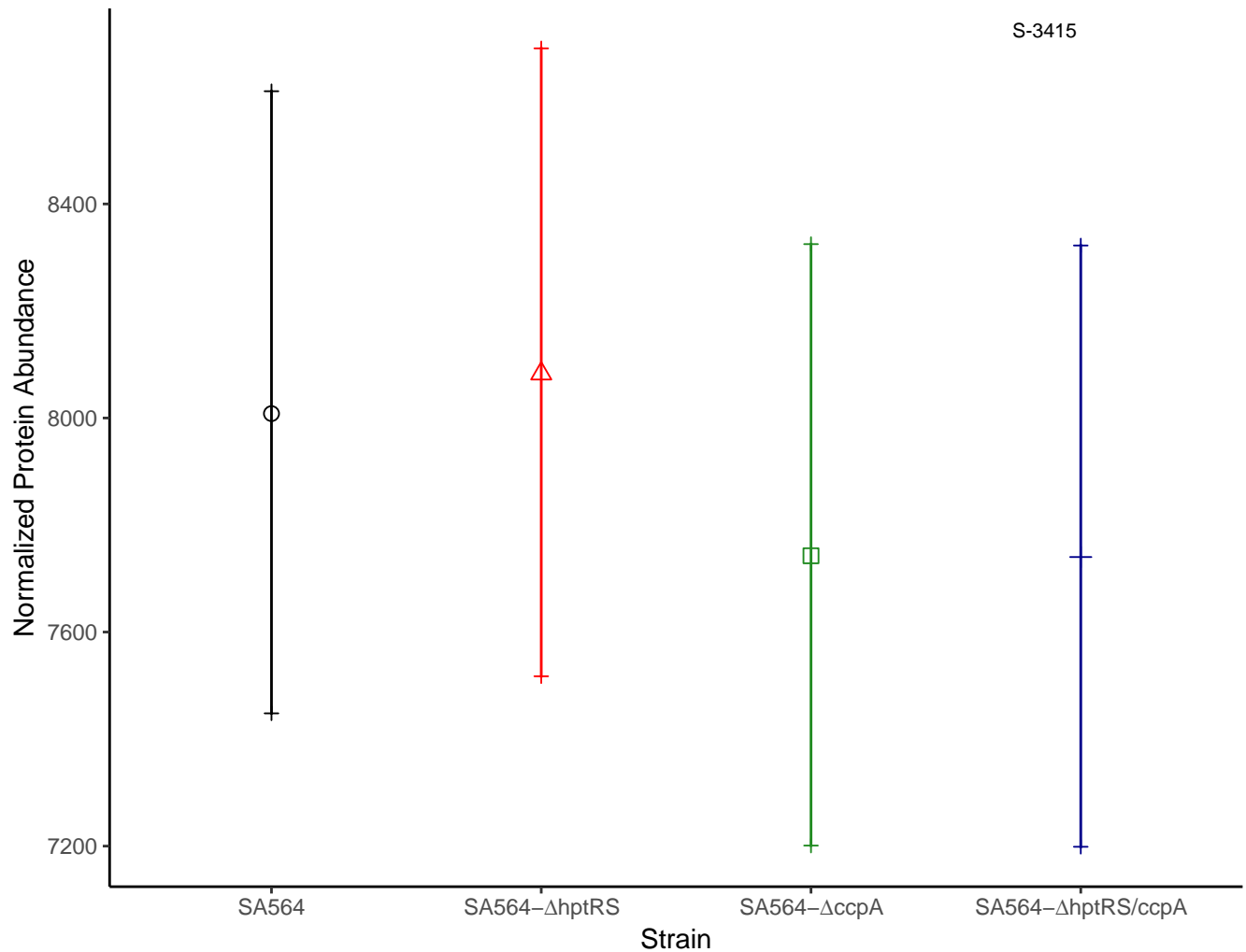
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYI\_STAAM



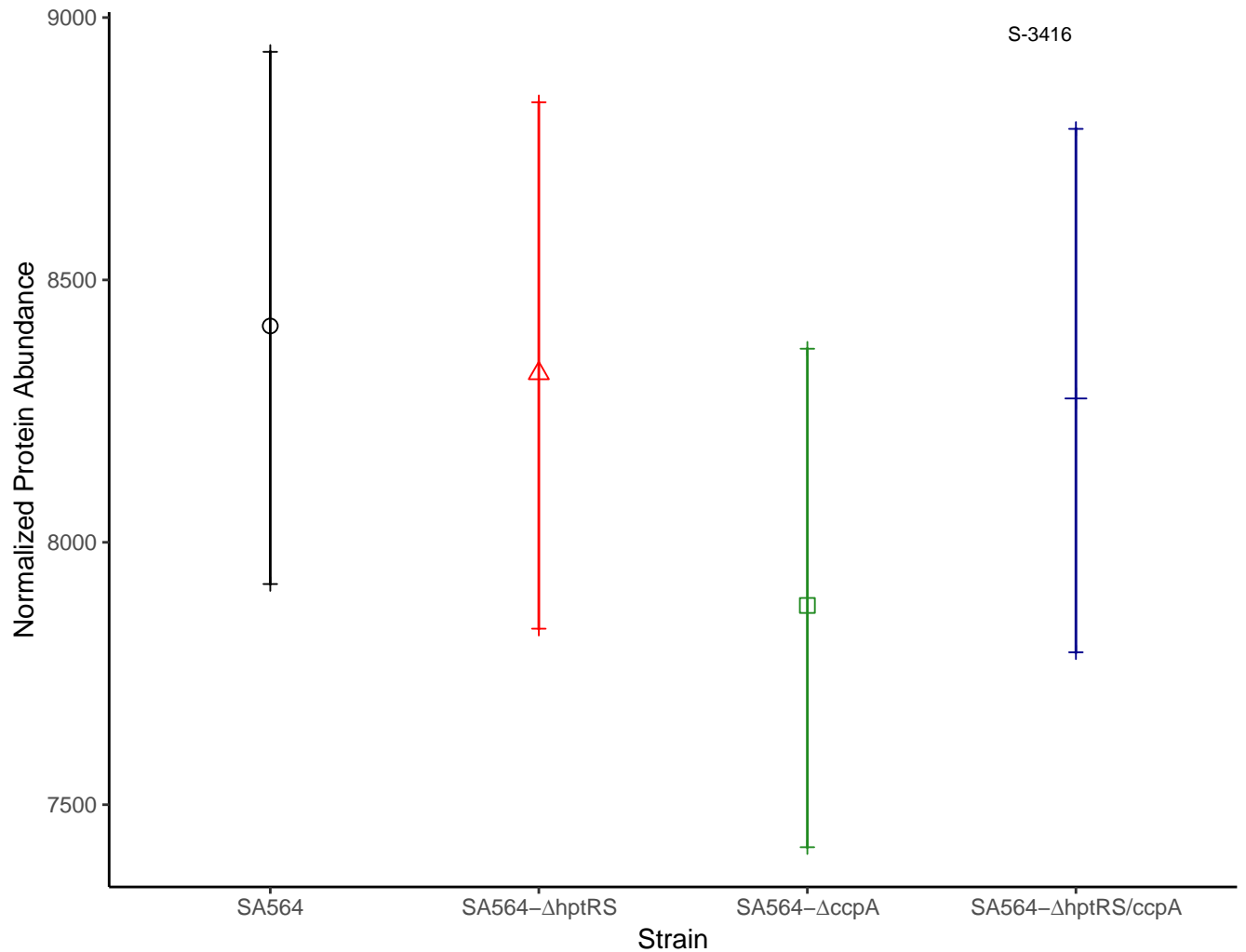
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYK\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

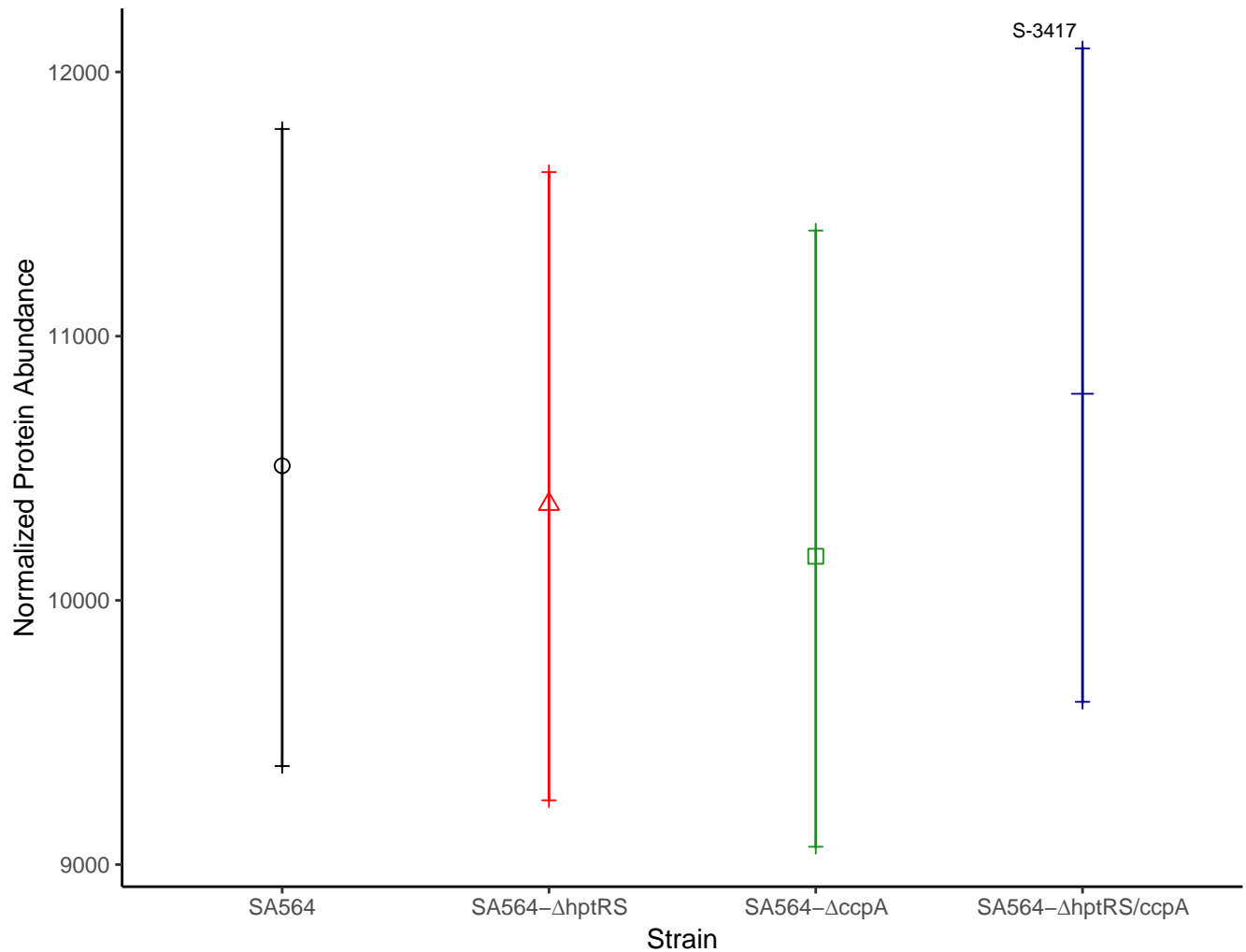
# SYM\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

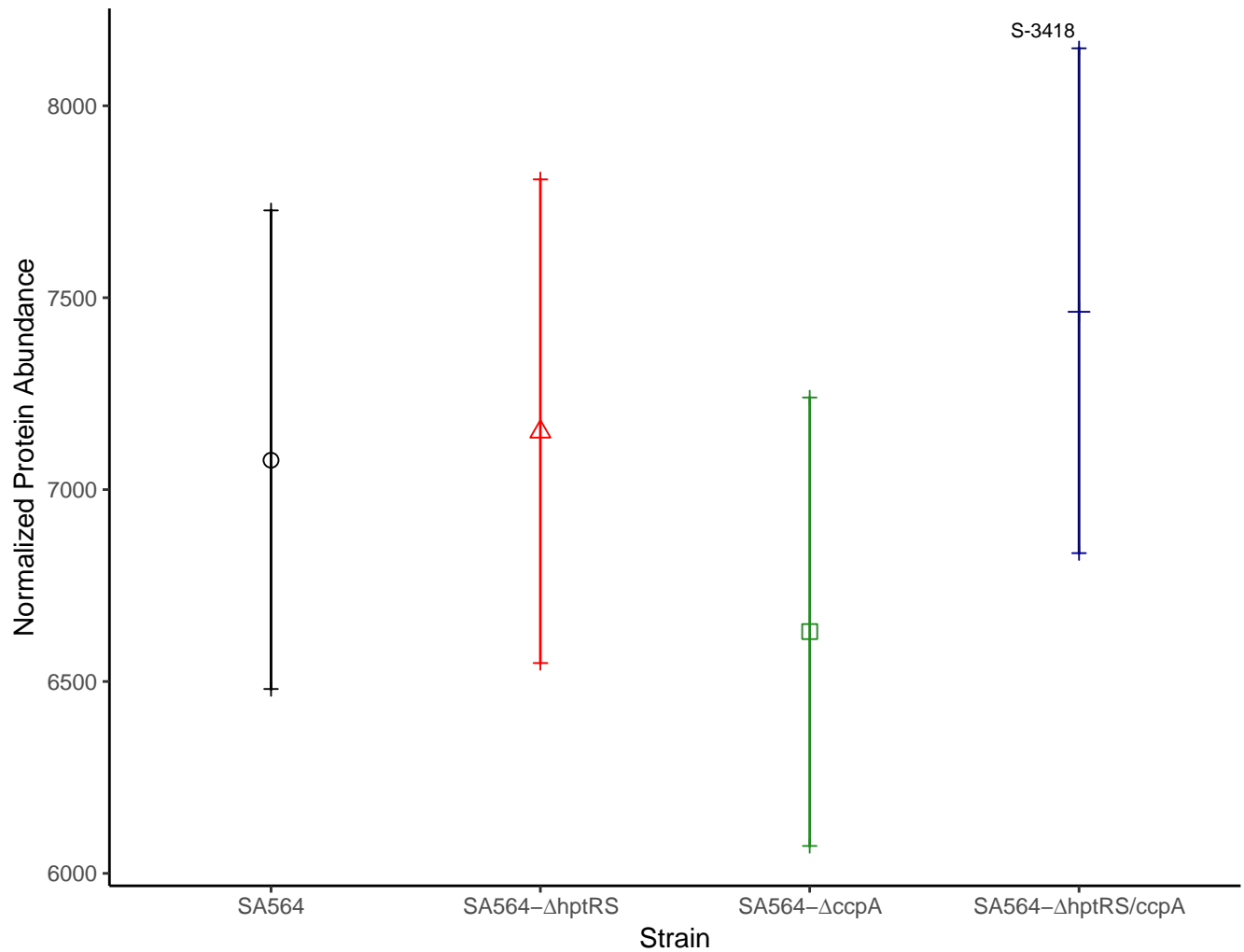


# SYN\_STAAM



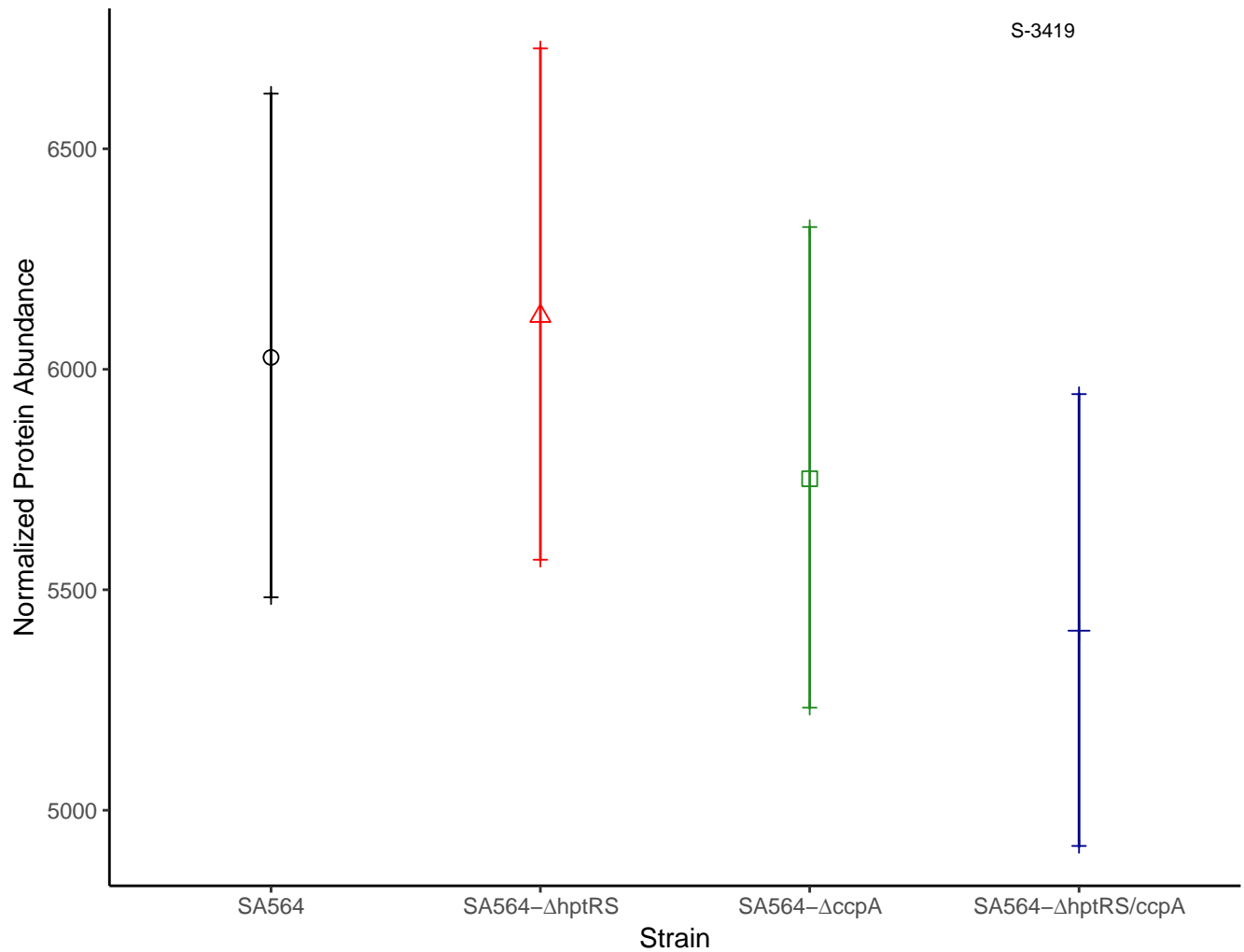
- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# SYP\_STAAM



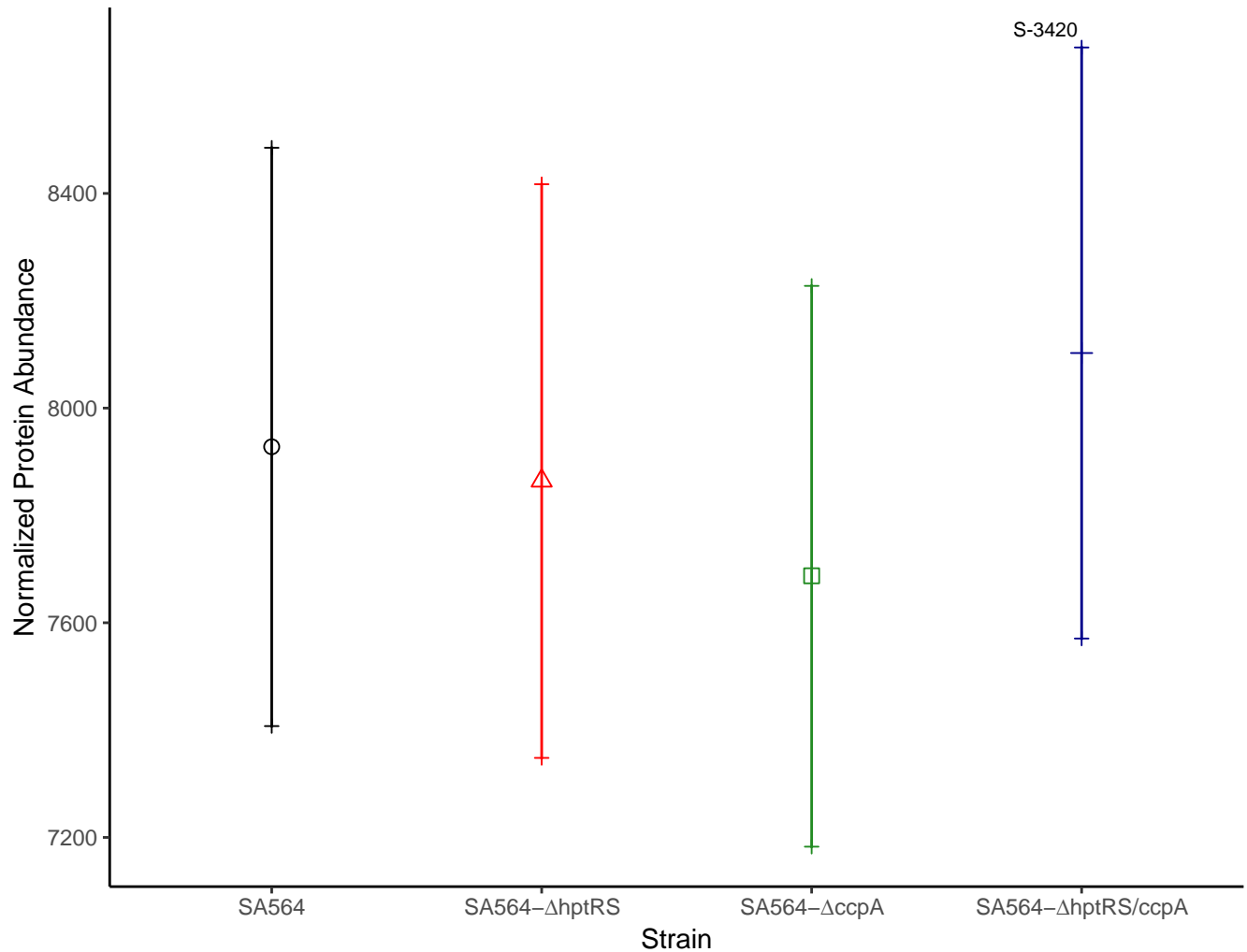
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYR\_STAAM



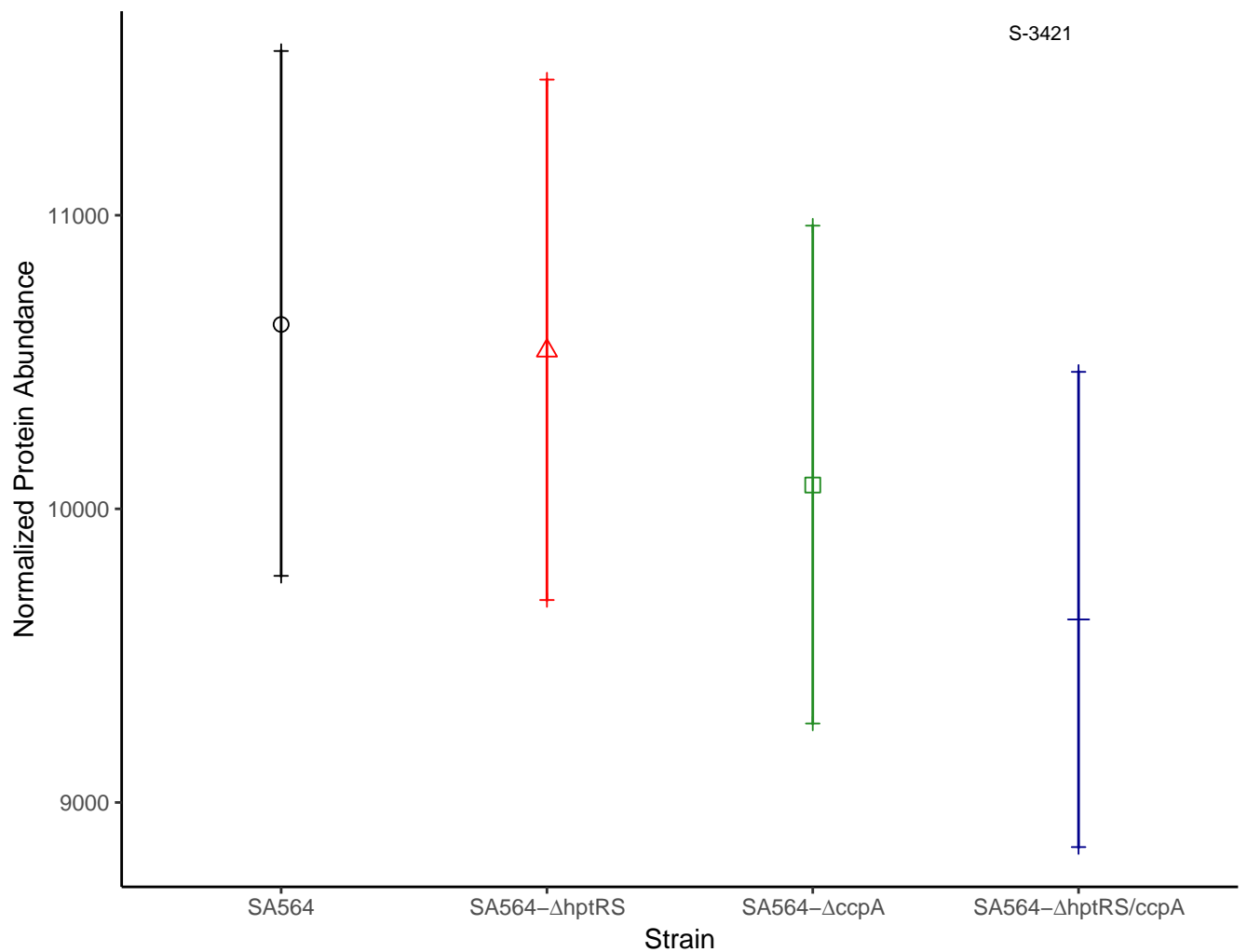
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYS\_STAAM



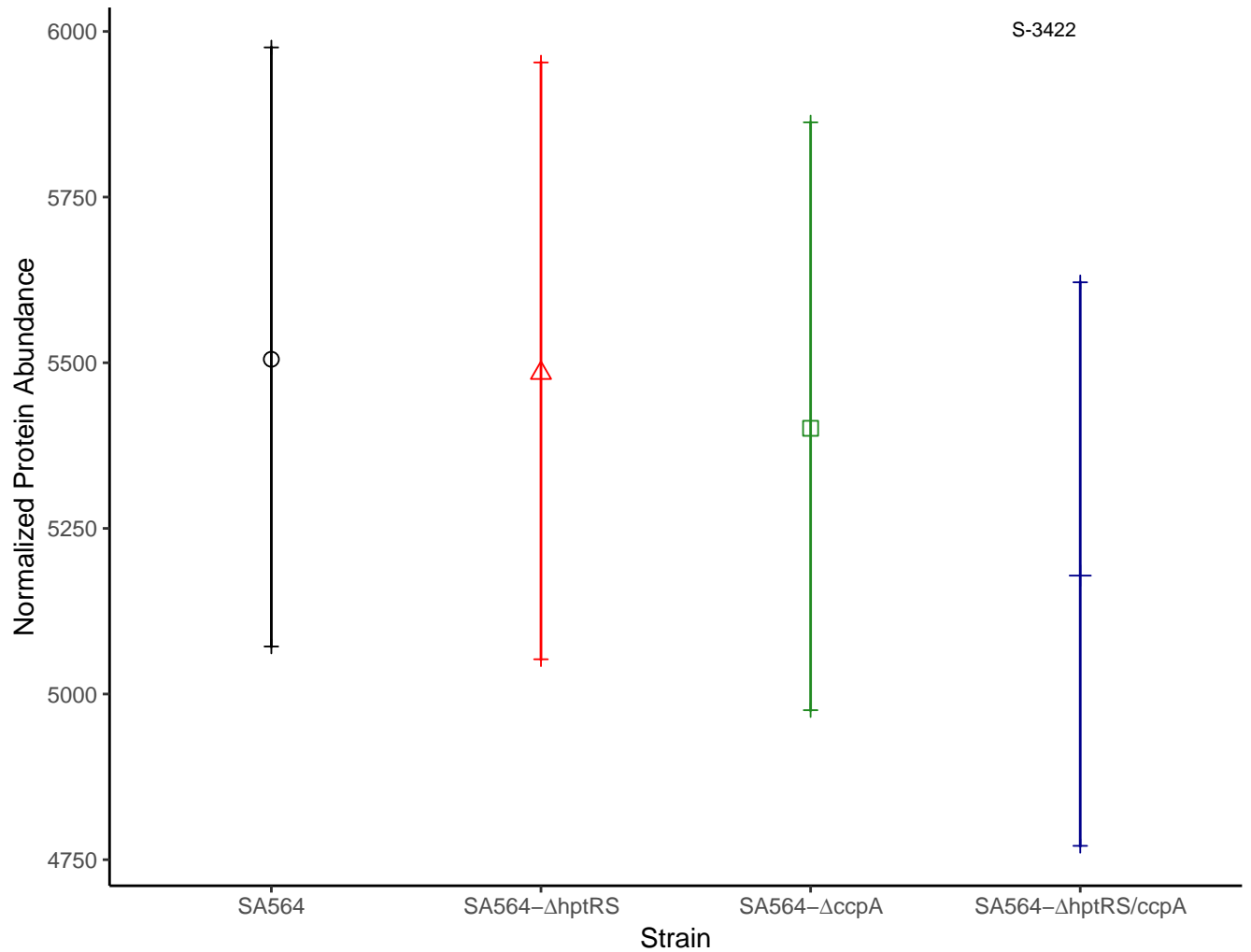
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYT\_STAAM



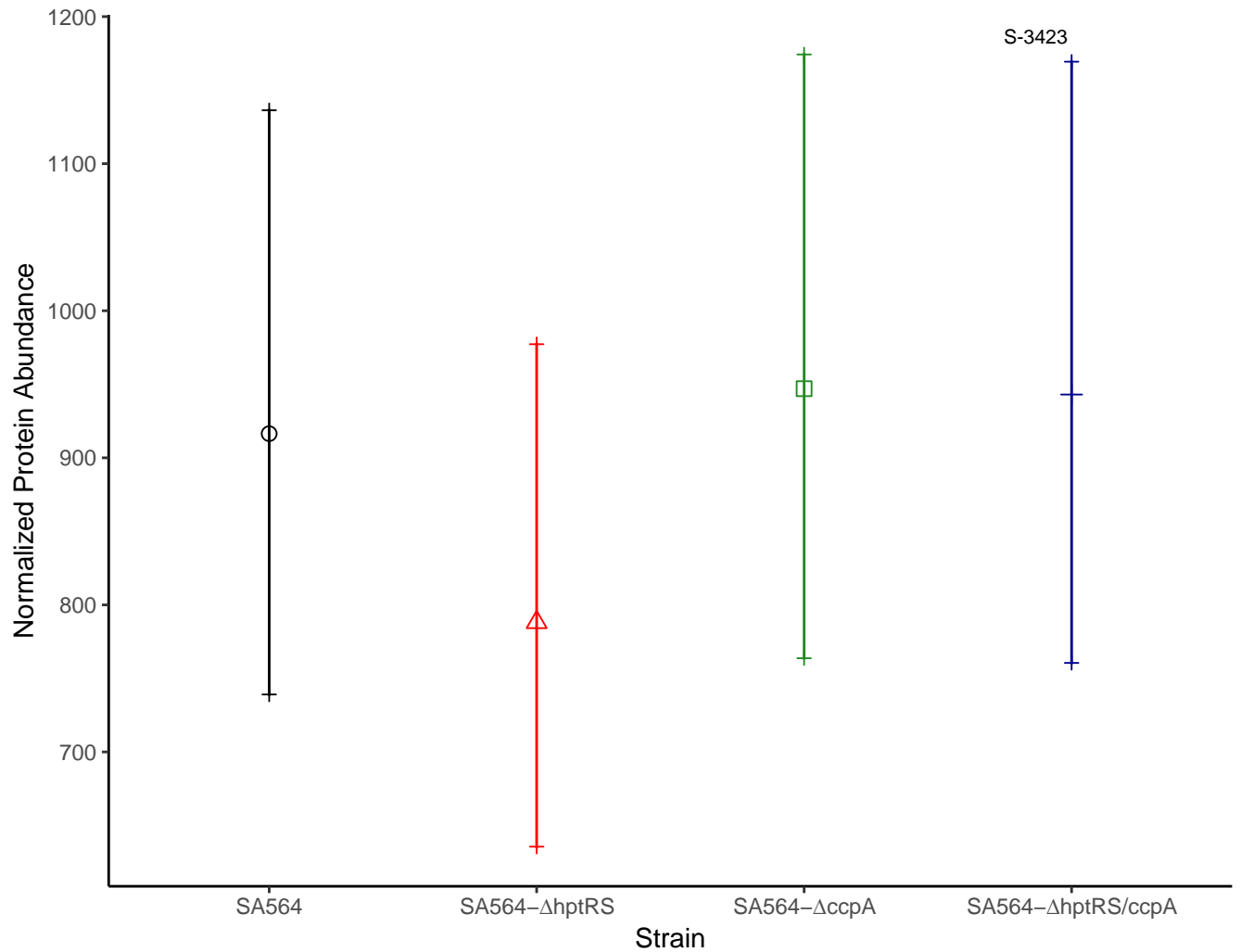
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYV\_STAAM



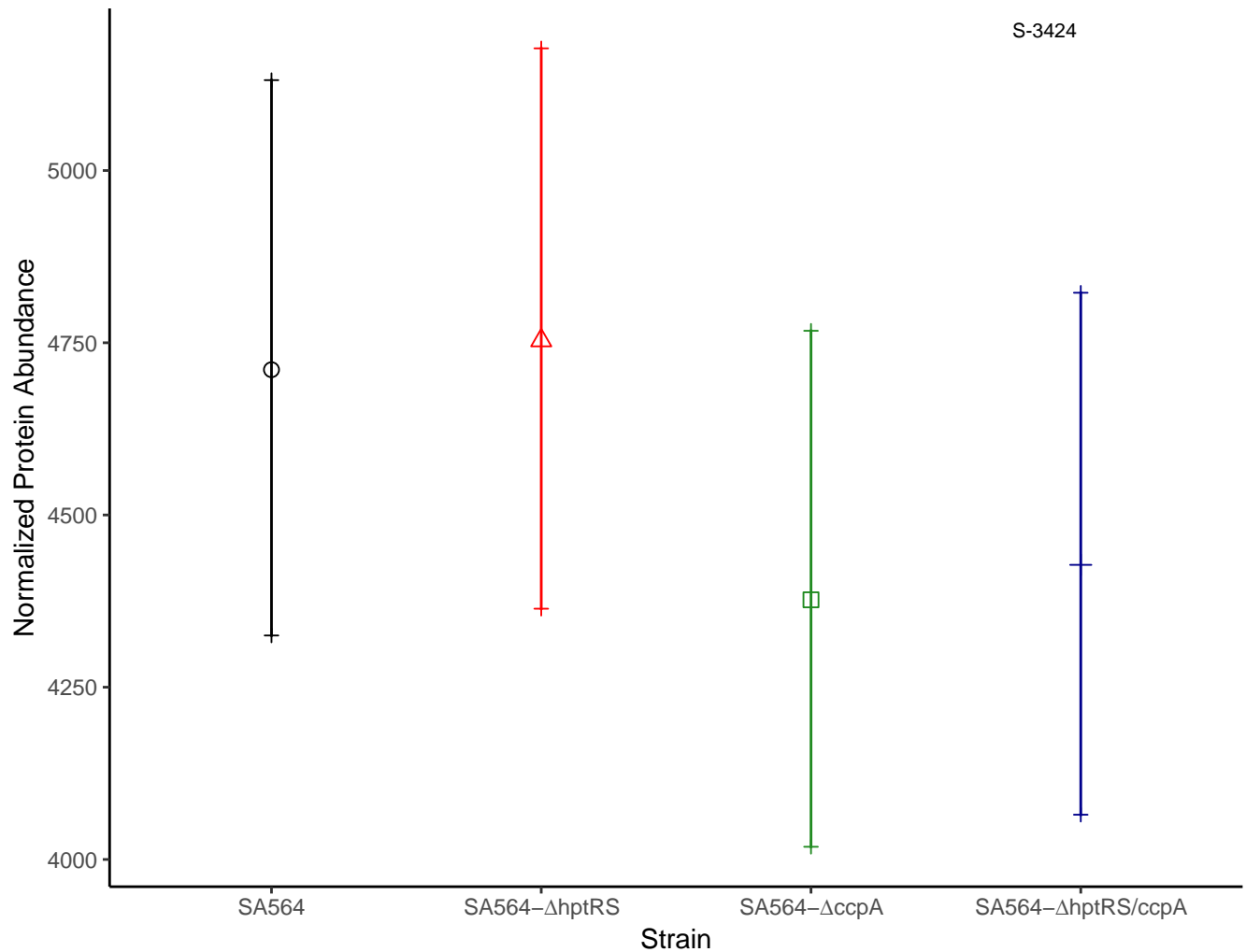
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# SYW\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

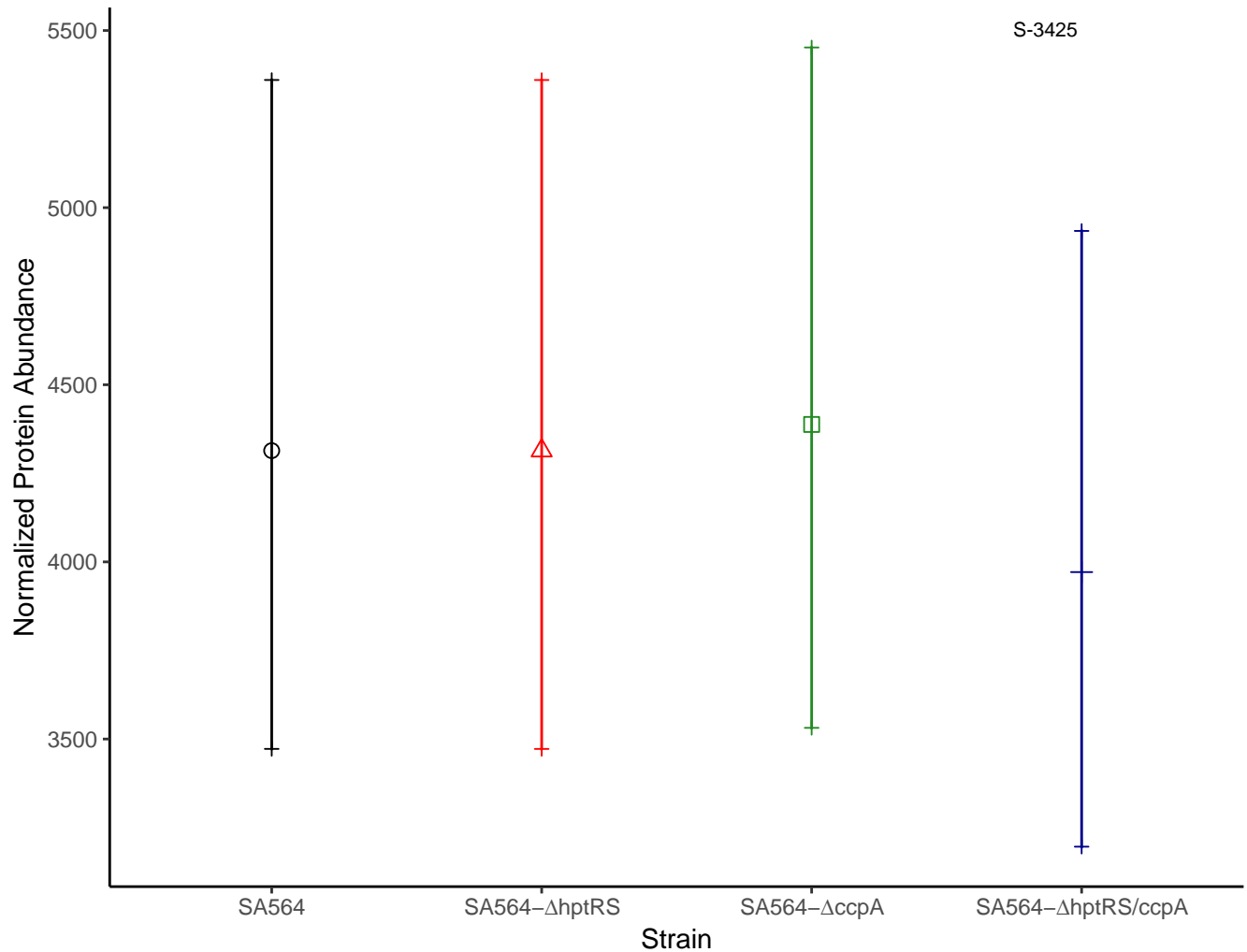
# SYT\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

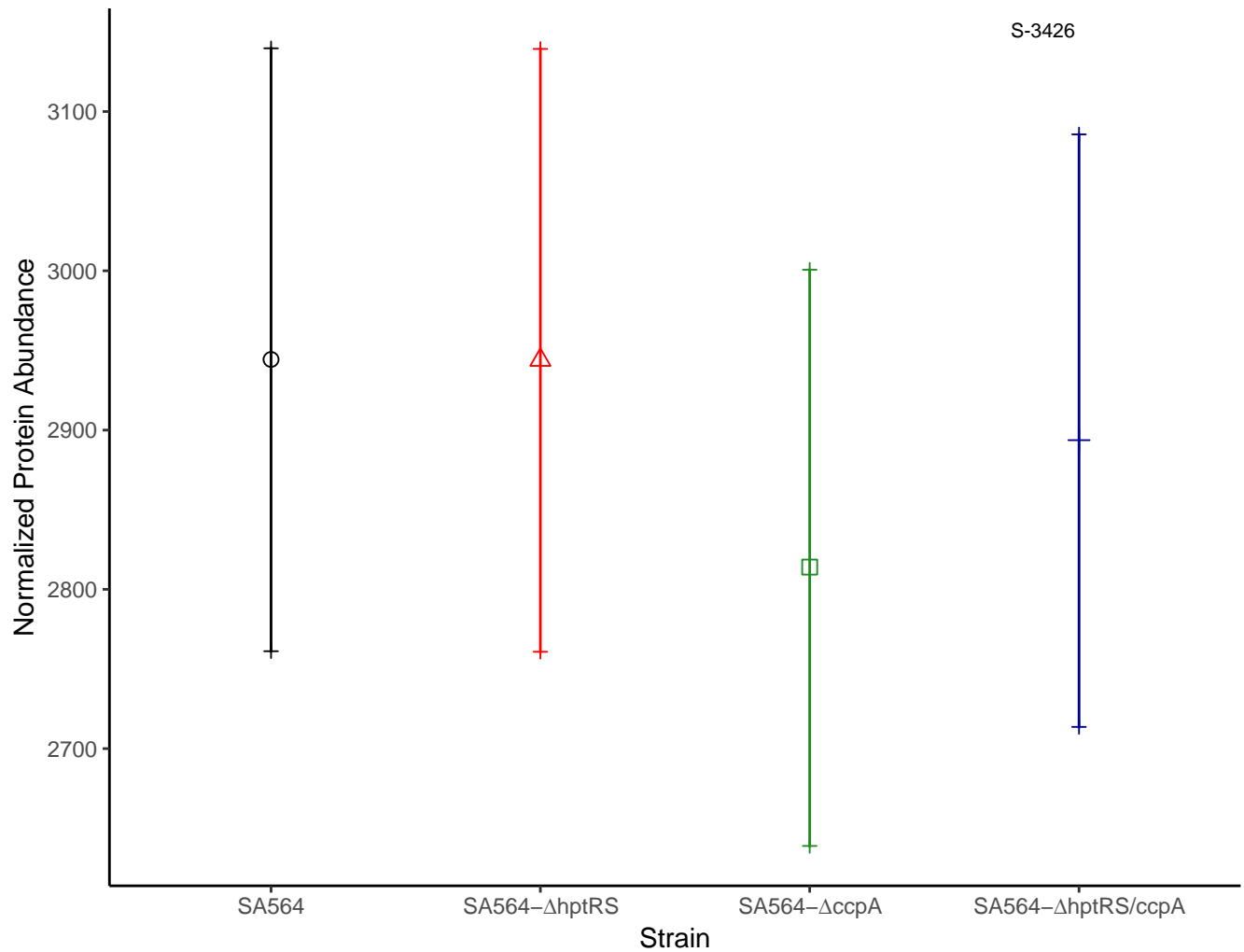


# T431\_STAAM



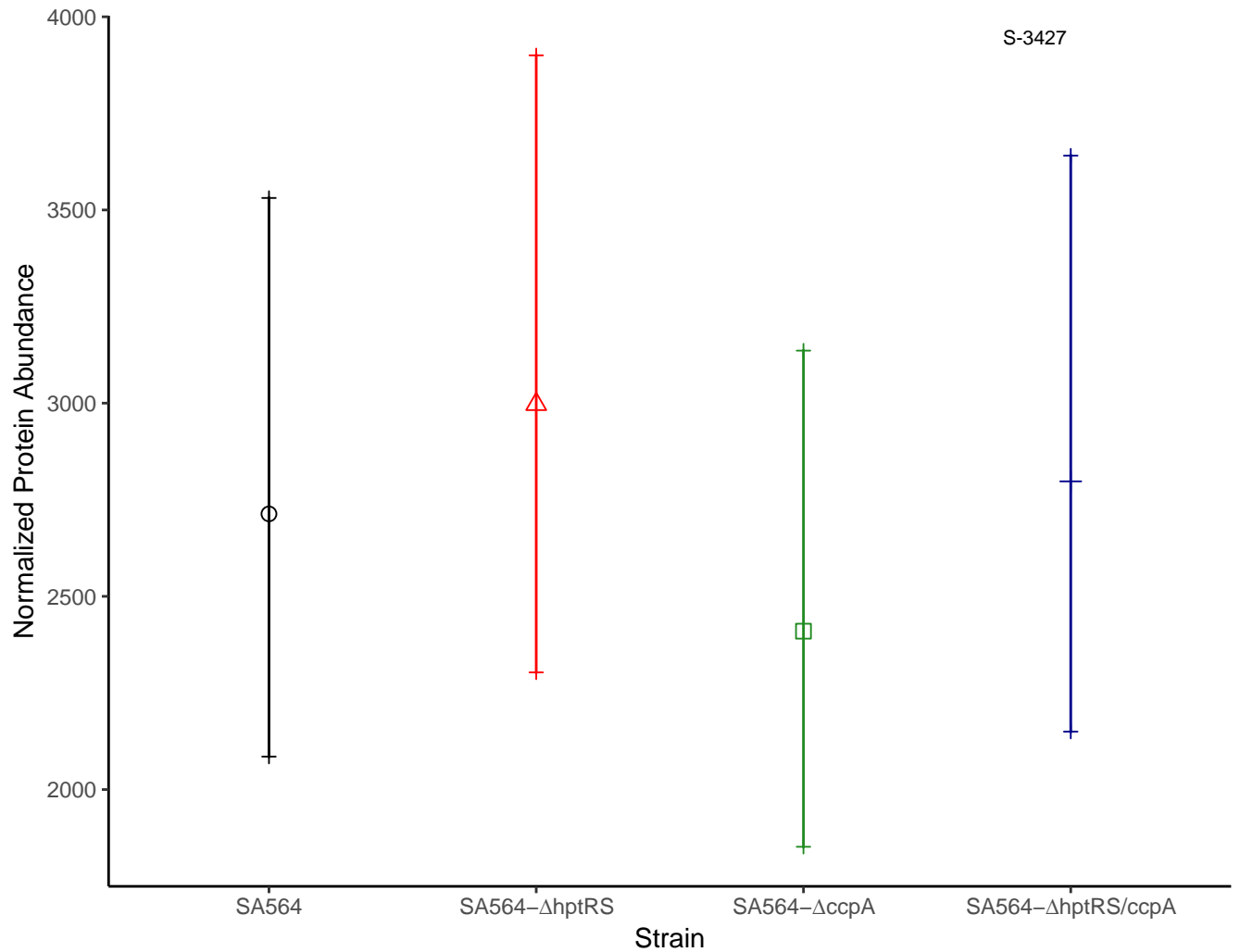
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TADA\_STAAM



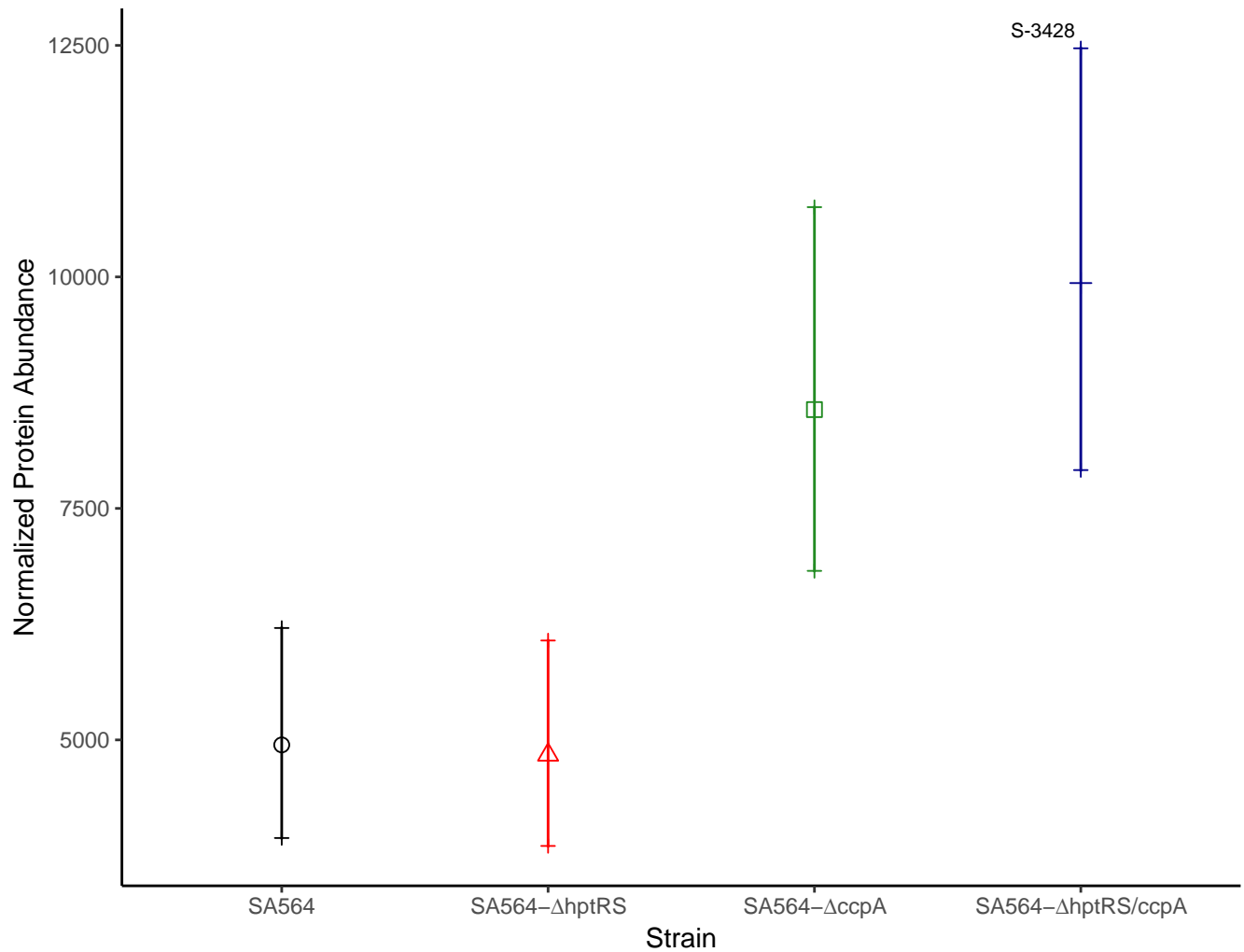
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TAGA\_STAAM



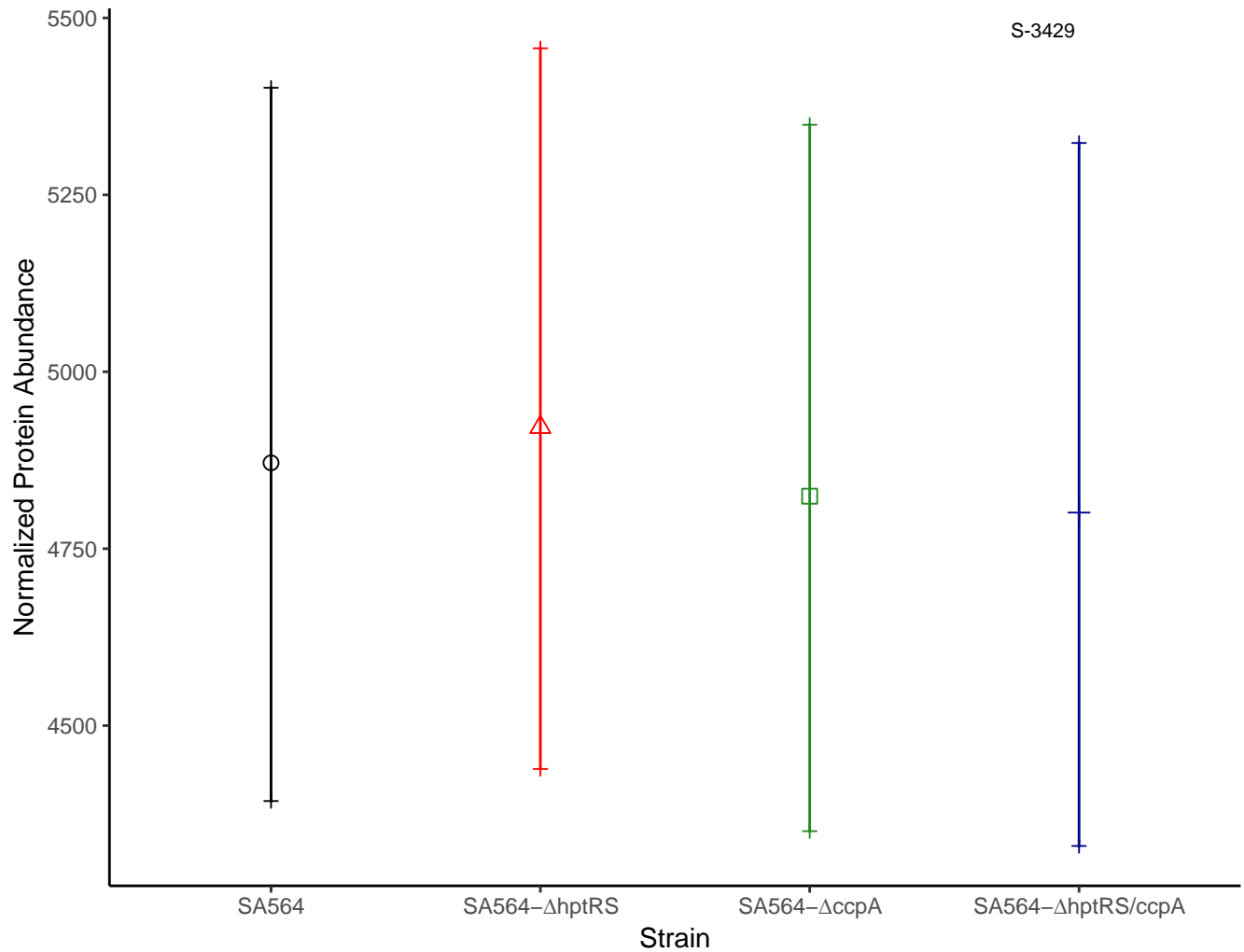
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TDCB\_STAAM



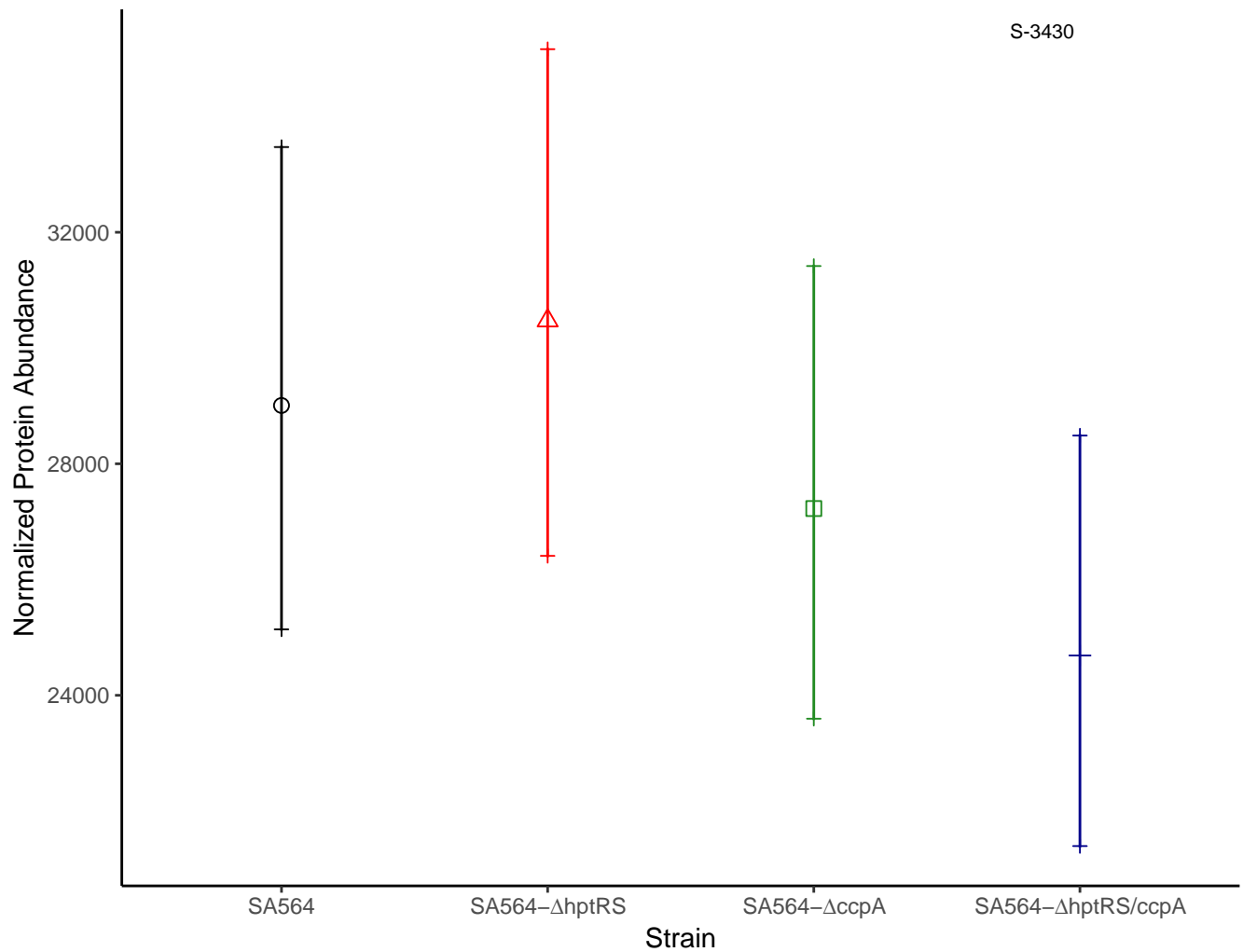
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TELL\_STAAM



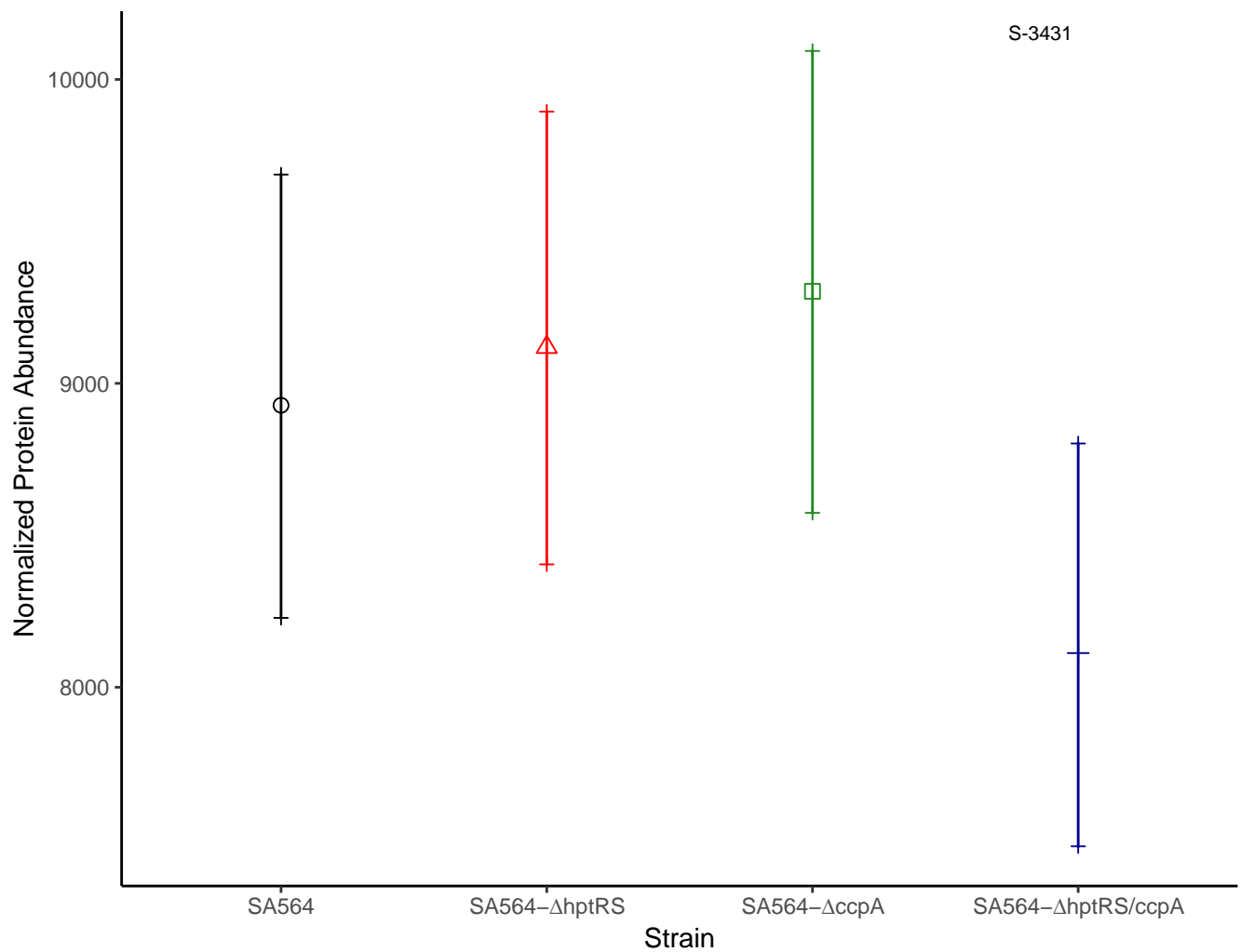
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# THID\_STAAM



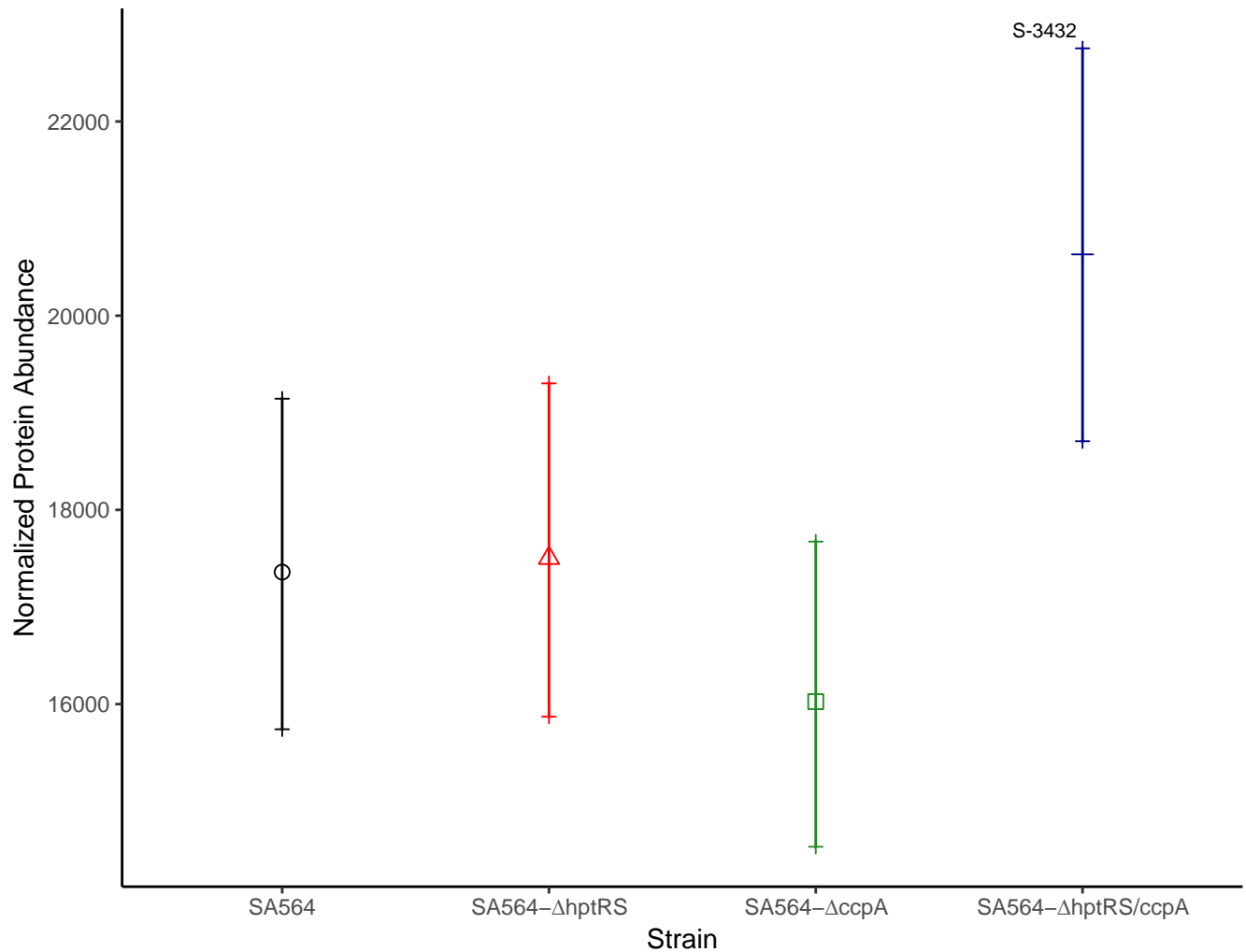
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# THIM\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

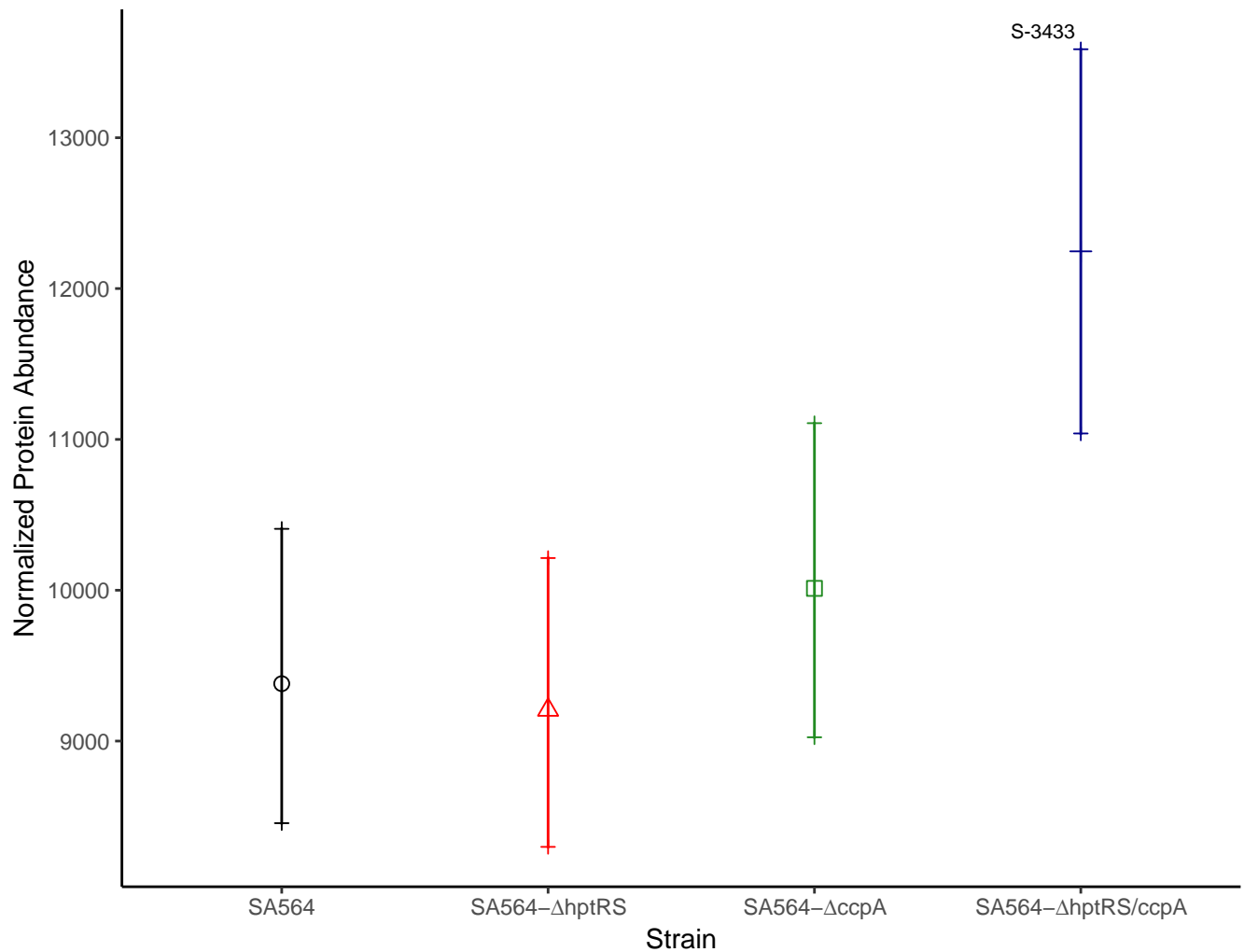
# THIO\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

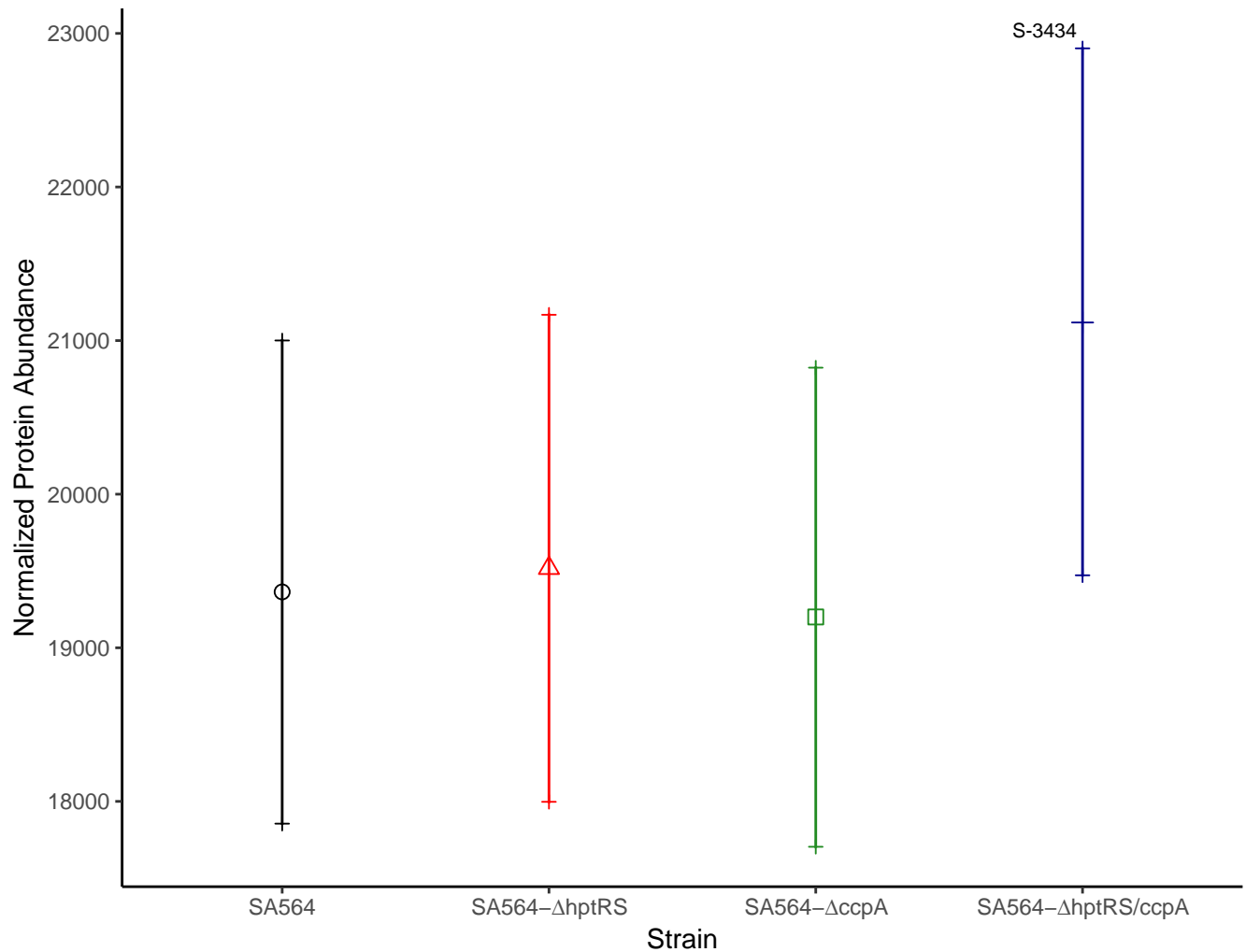


# THLA\_STAAM



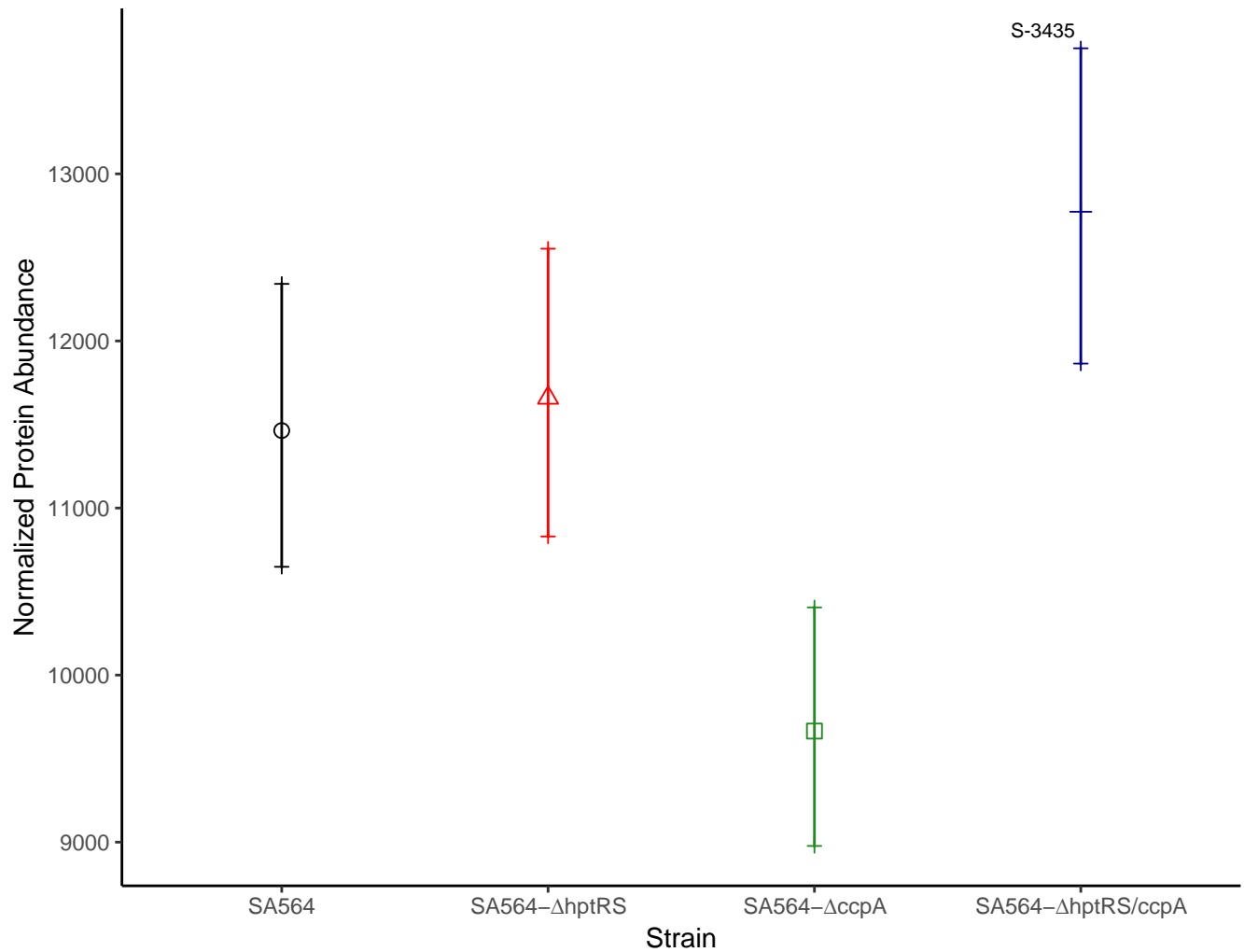
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TIG\_STAAM



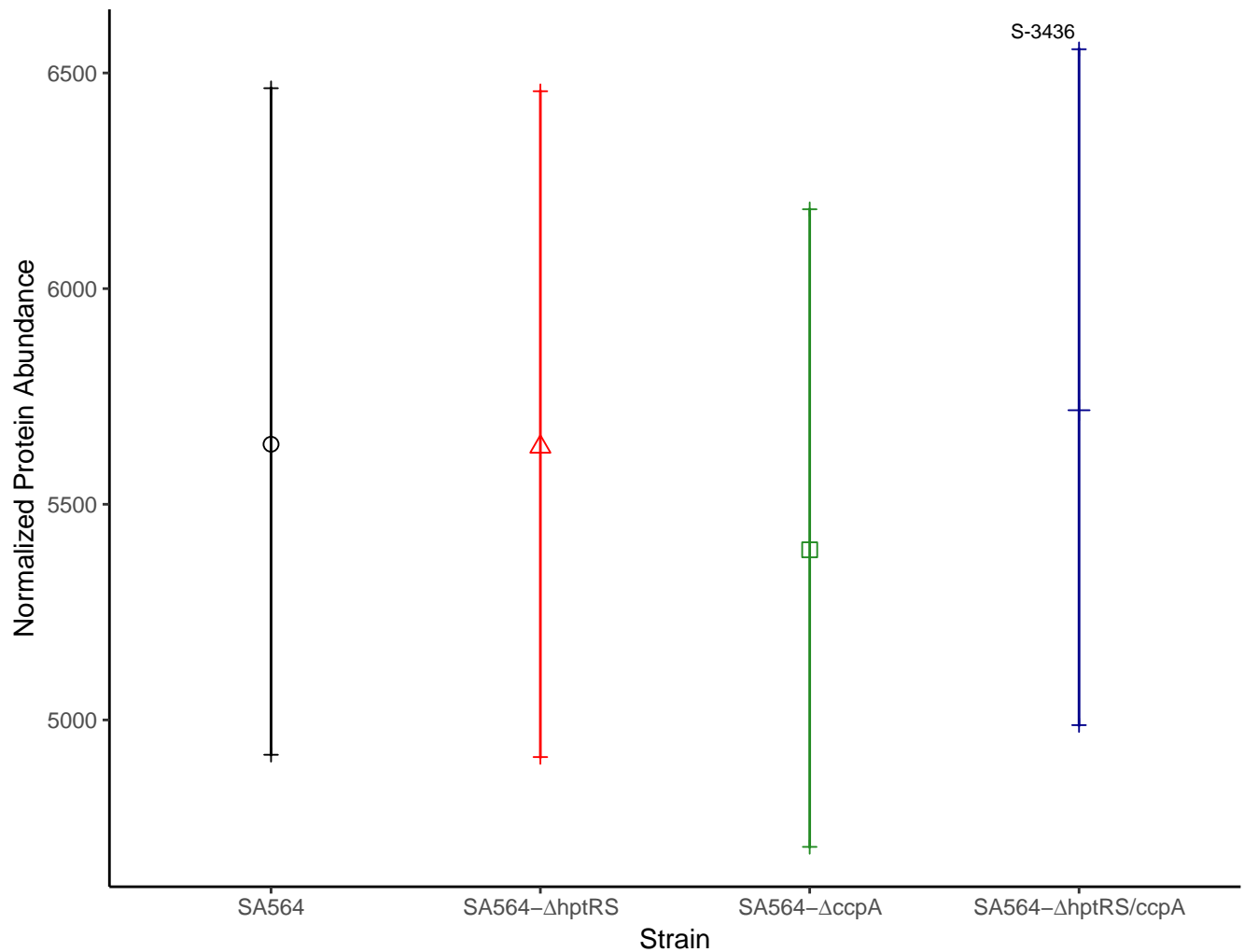
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# TKT\_STAAM



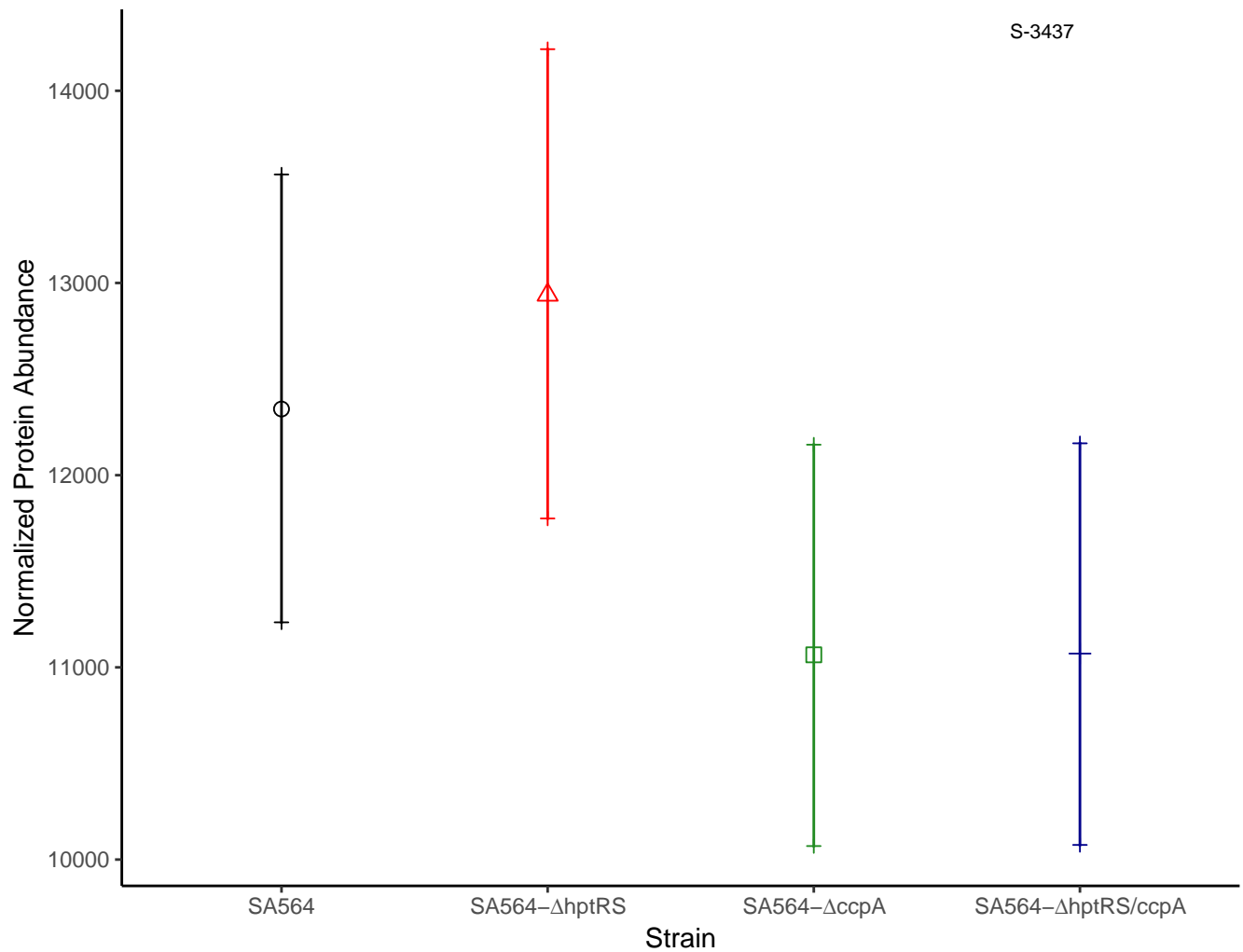
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TOP1\_STAAM



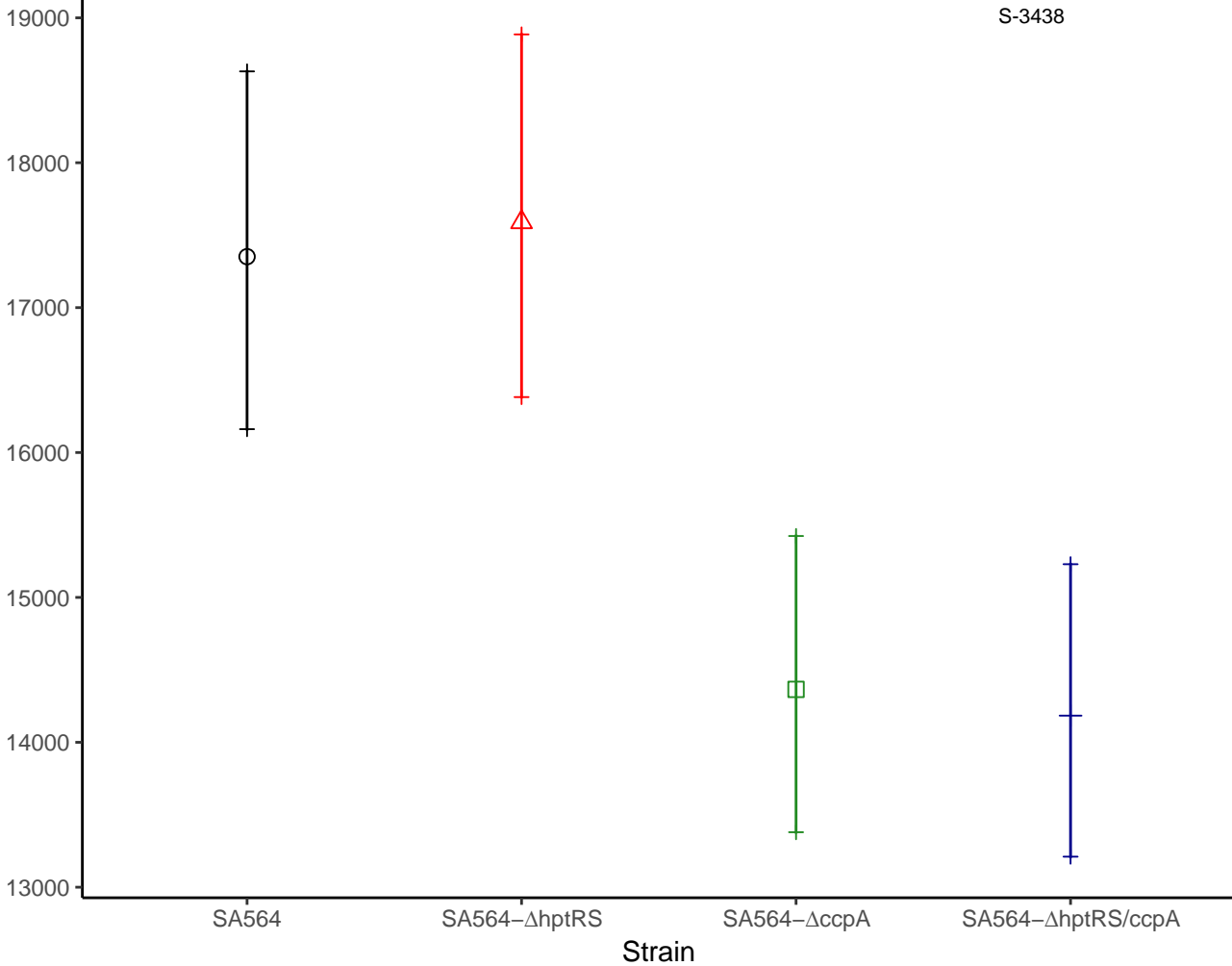
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TOP3\_STAAM



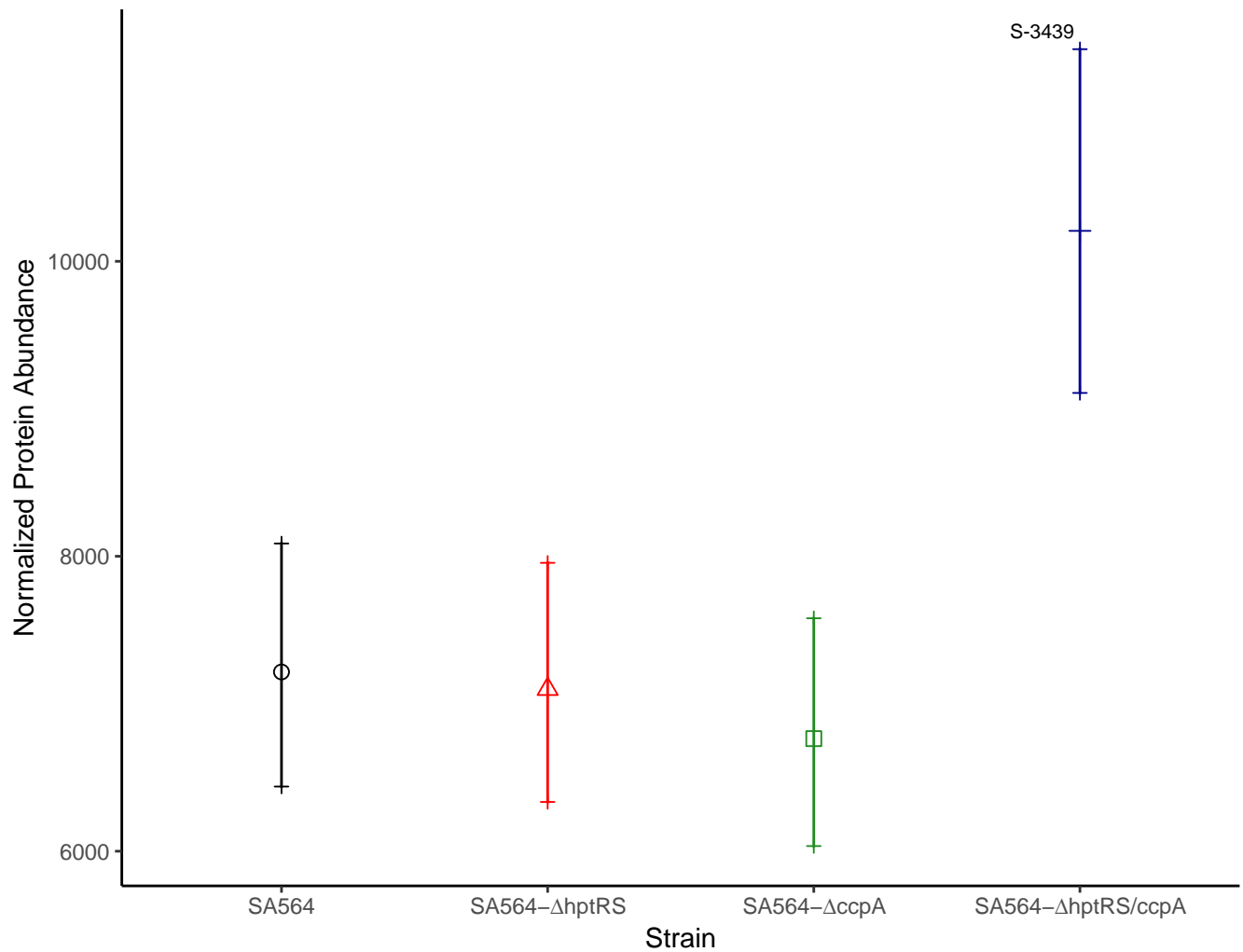
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TPIS\_STAAM



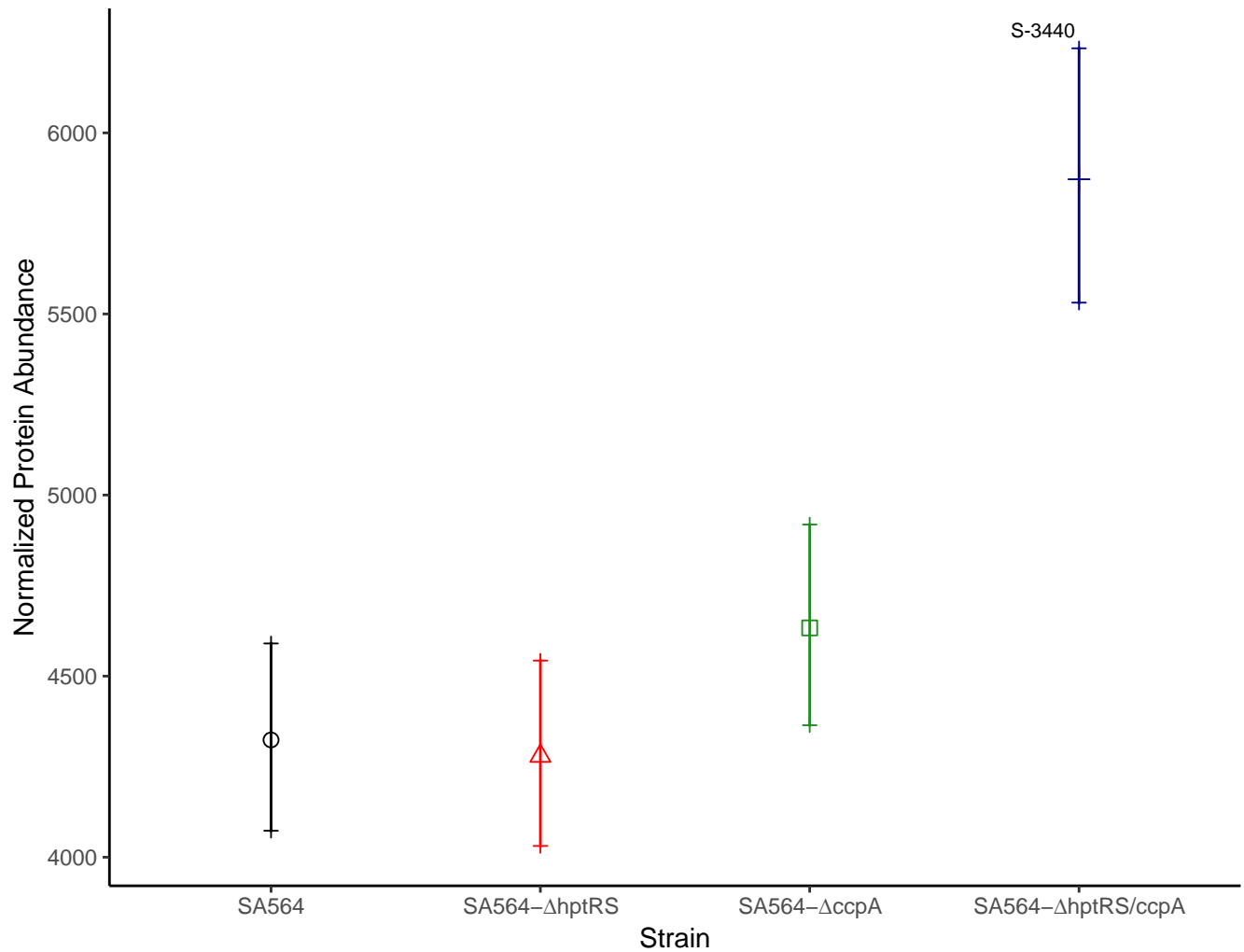
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TPX\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

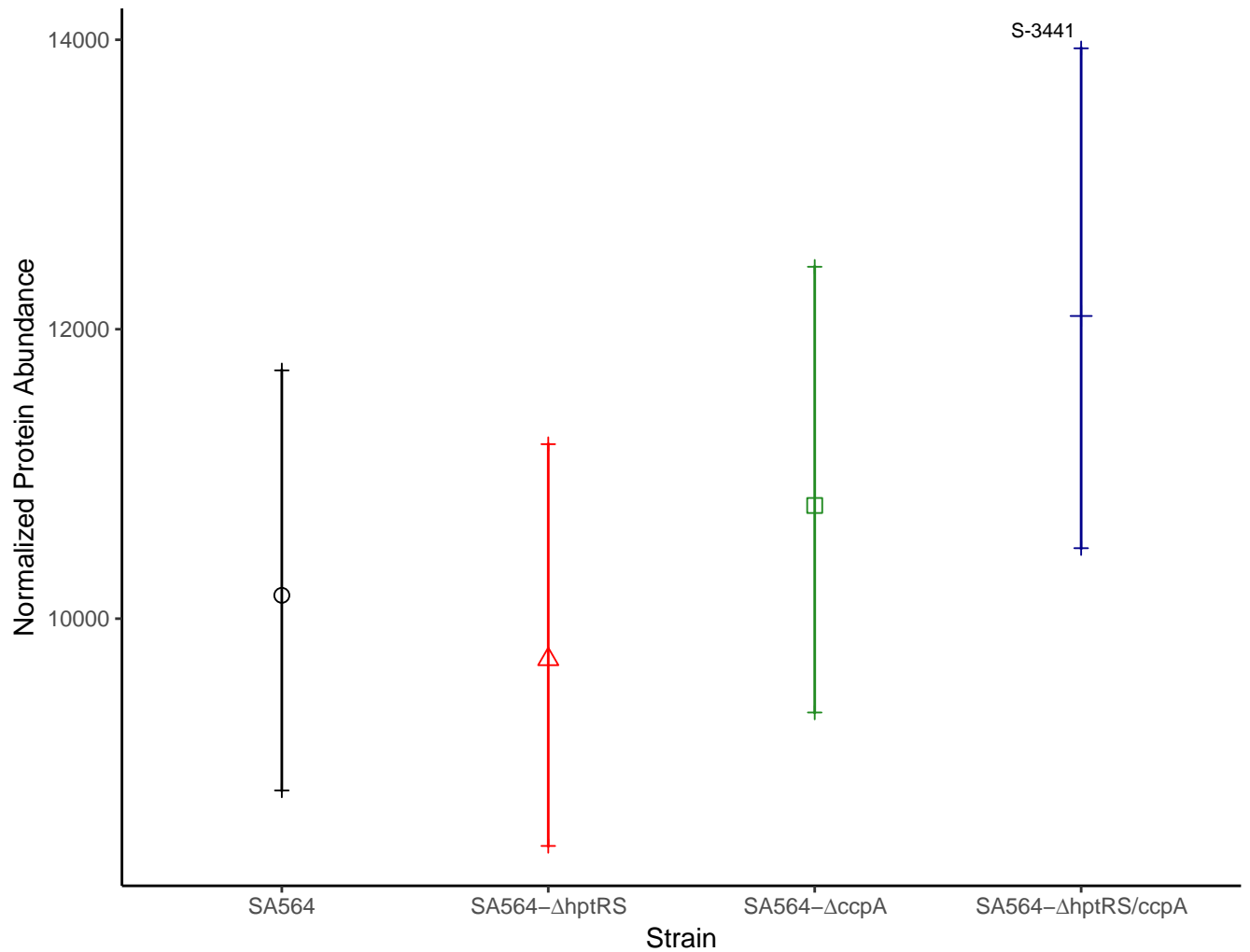
# TRAC\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

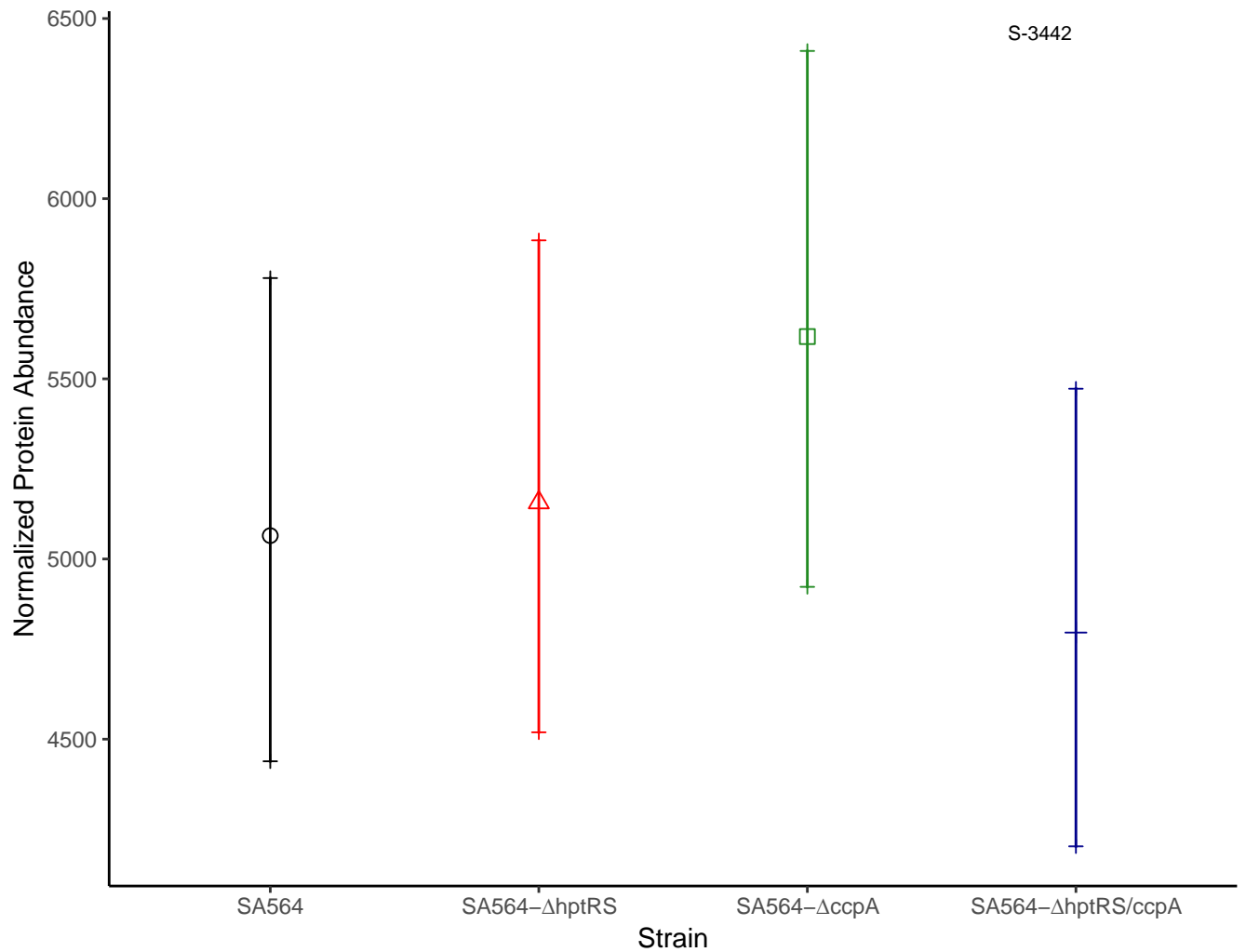


# TRAP\_STAAM



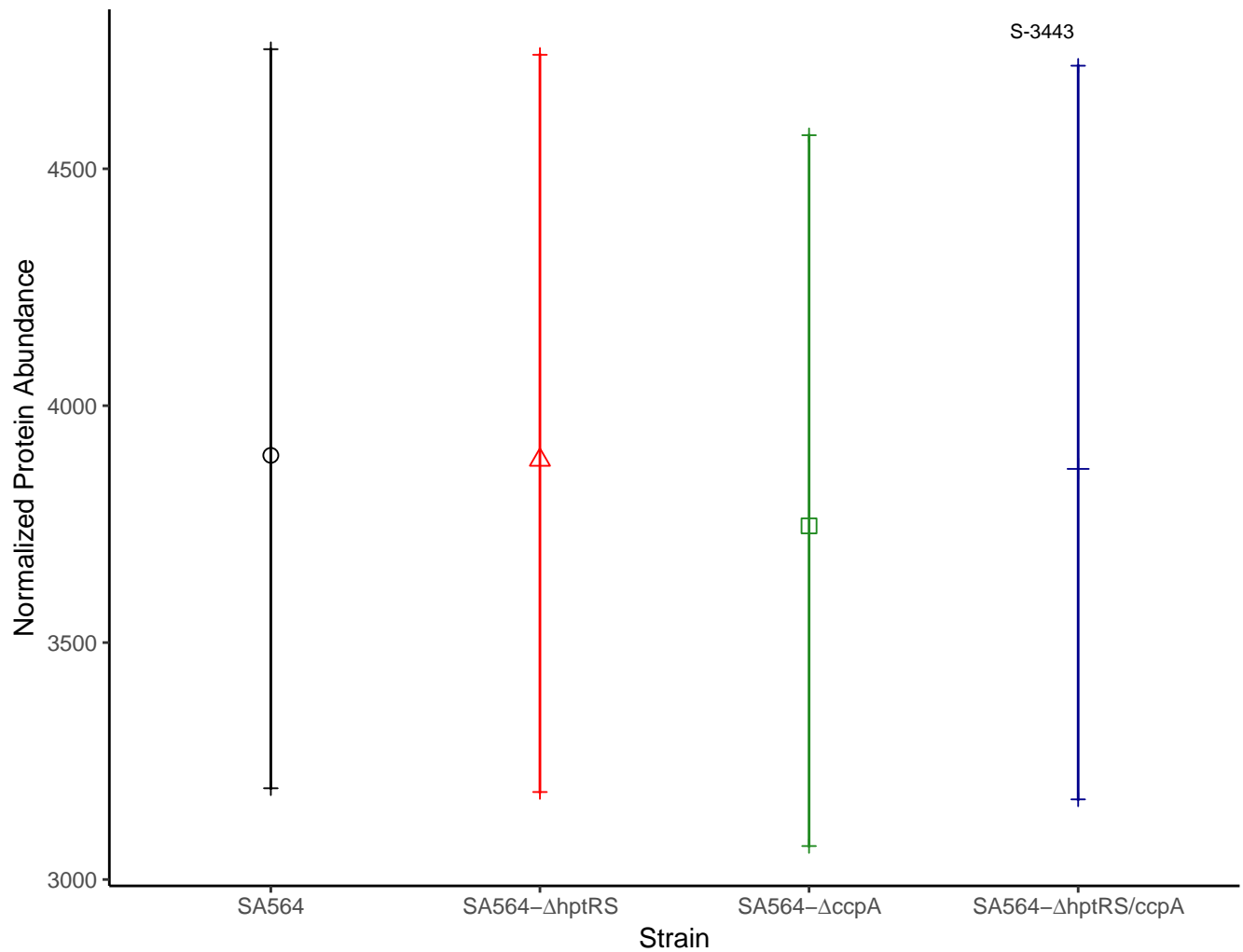
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRMB\_STAAM



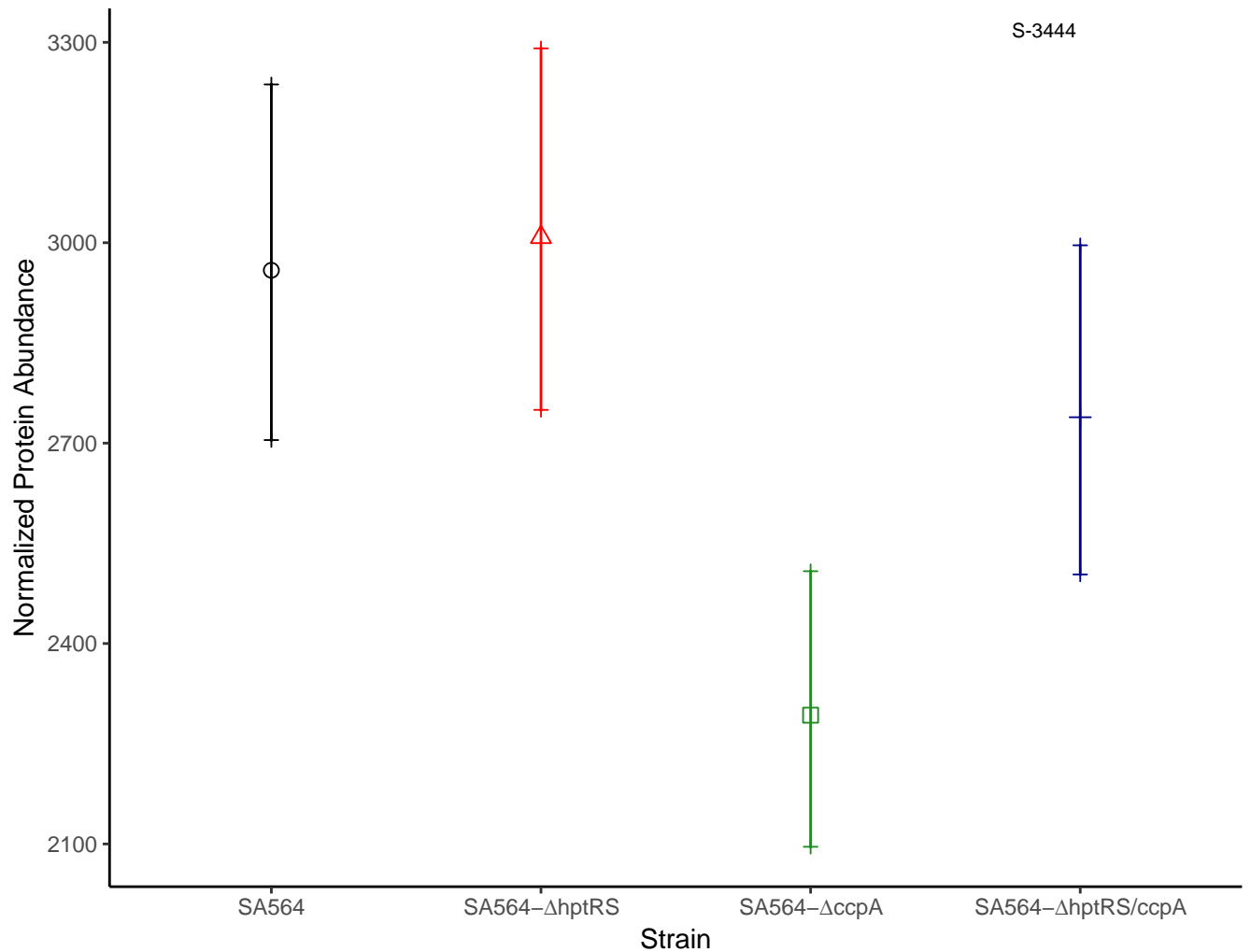
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRMFO\_STAAM



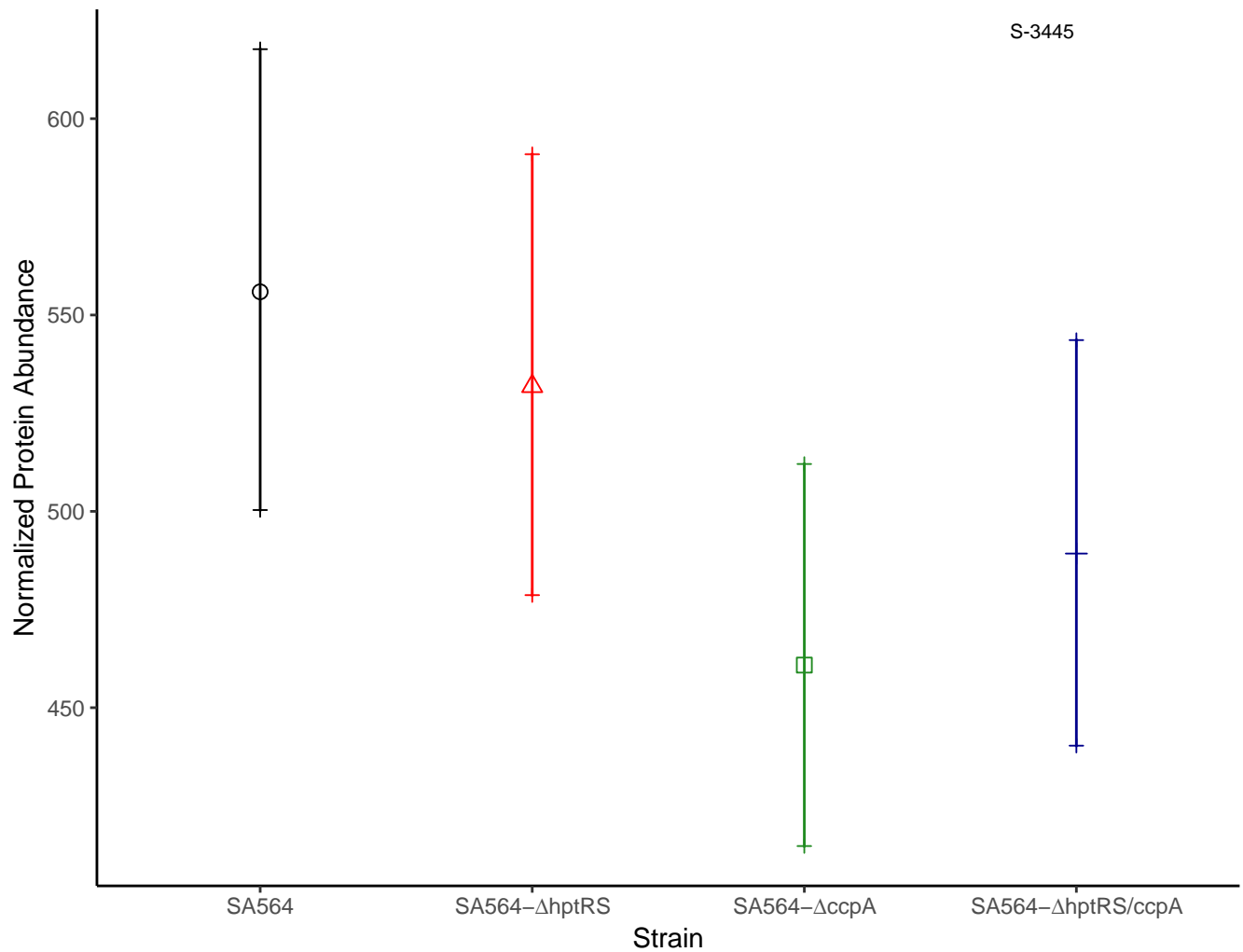
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRMHL\_STAAM



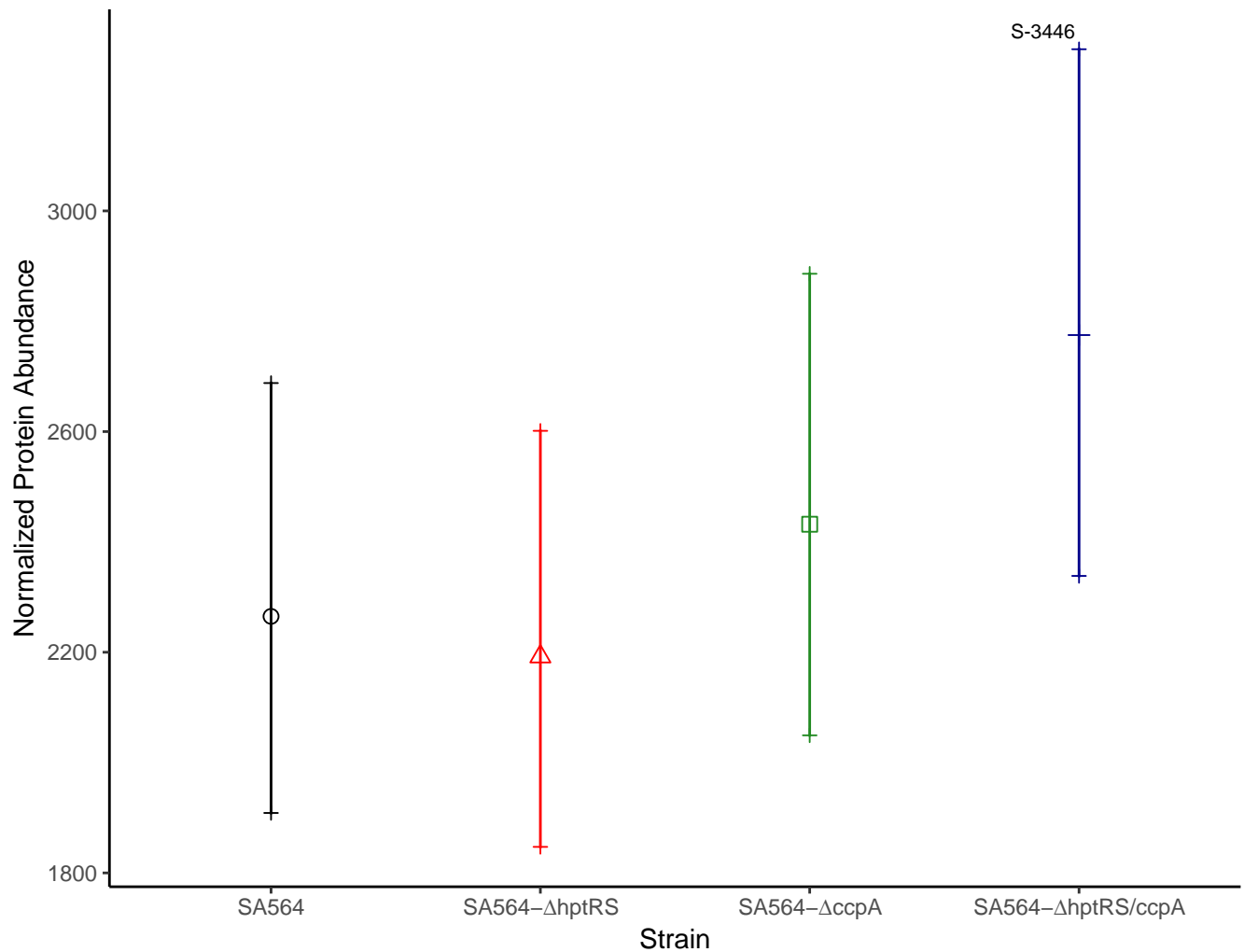
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRPA\_STAAM



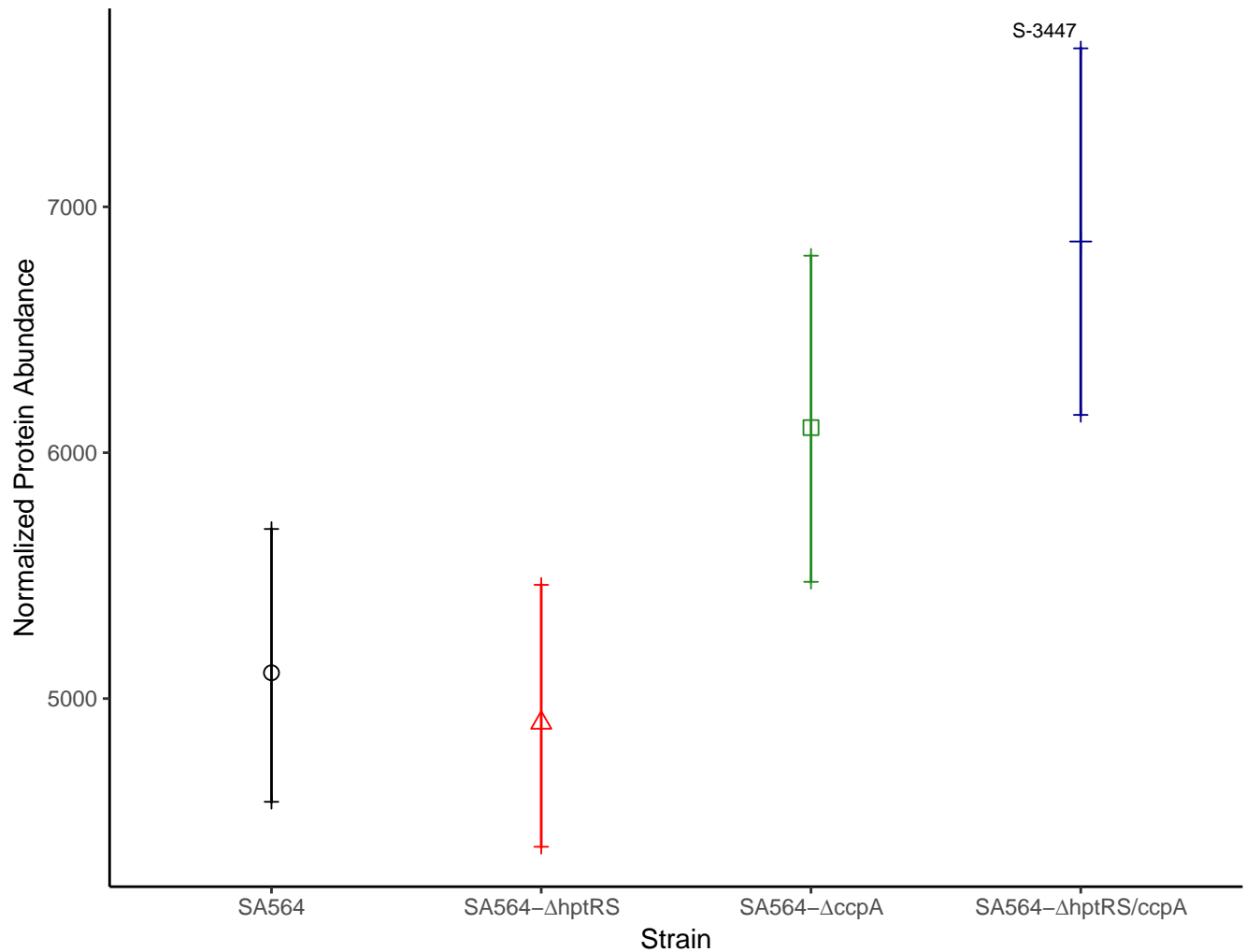
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRPF\_STAAM



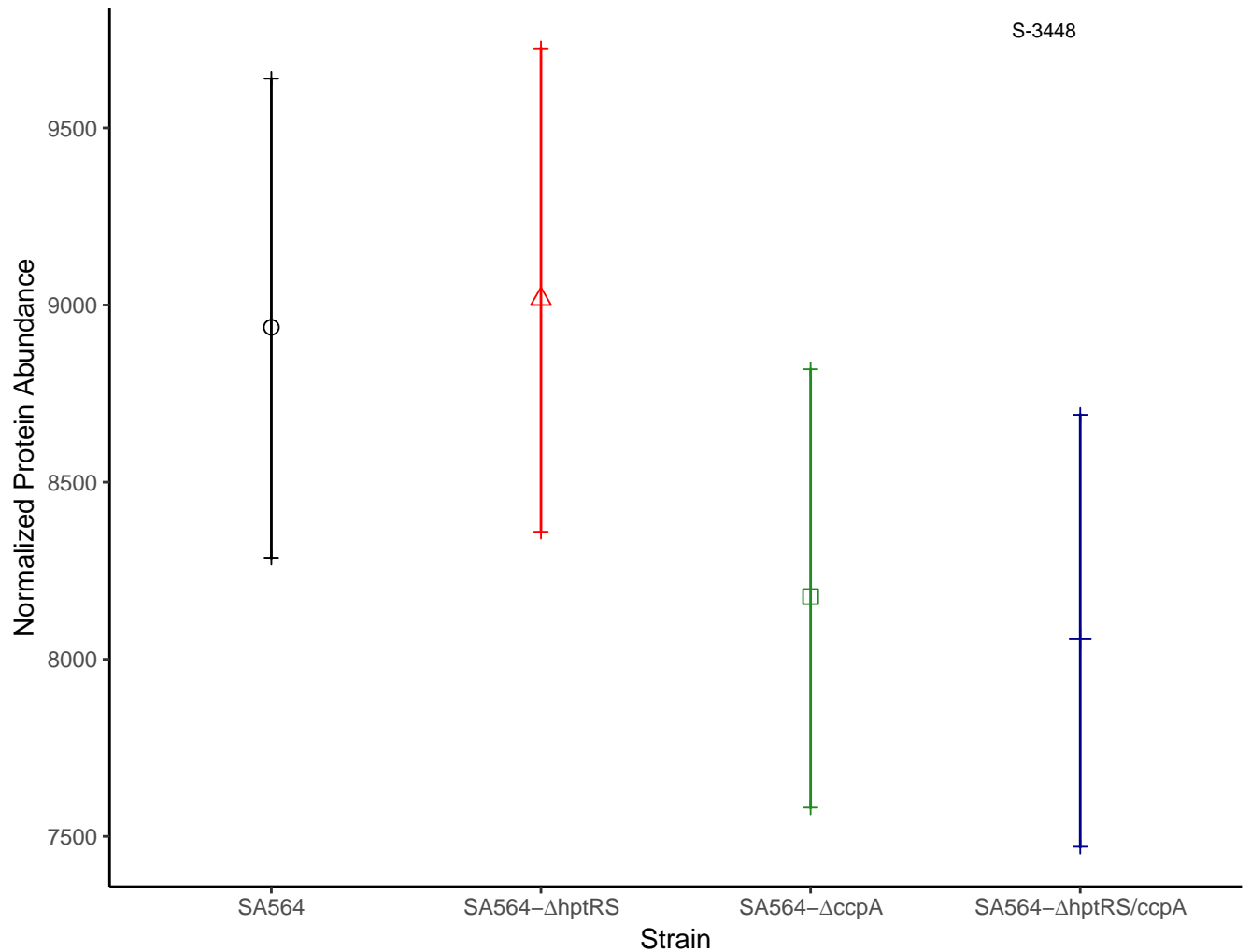
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TRUB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

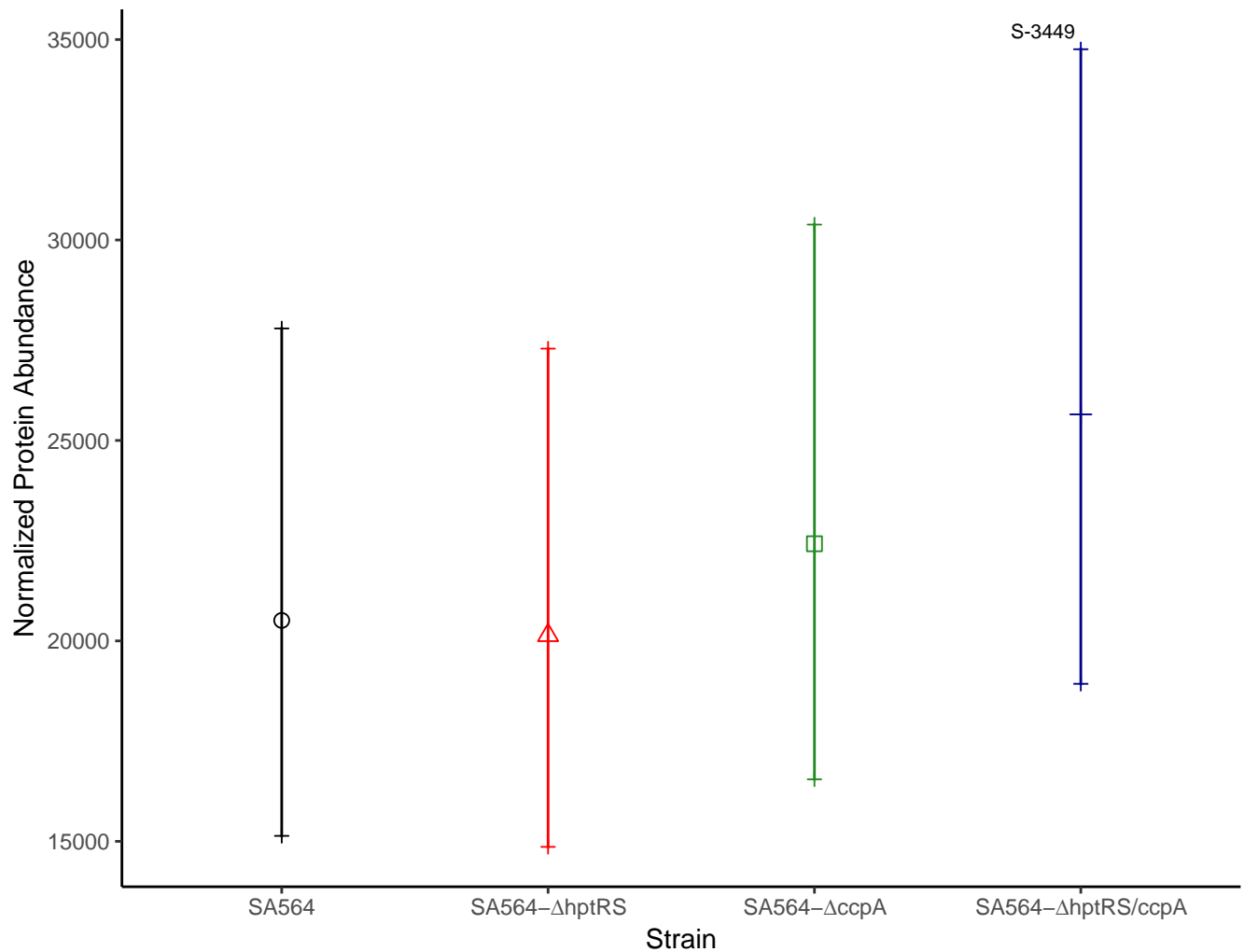
# TRXB\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

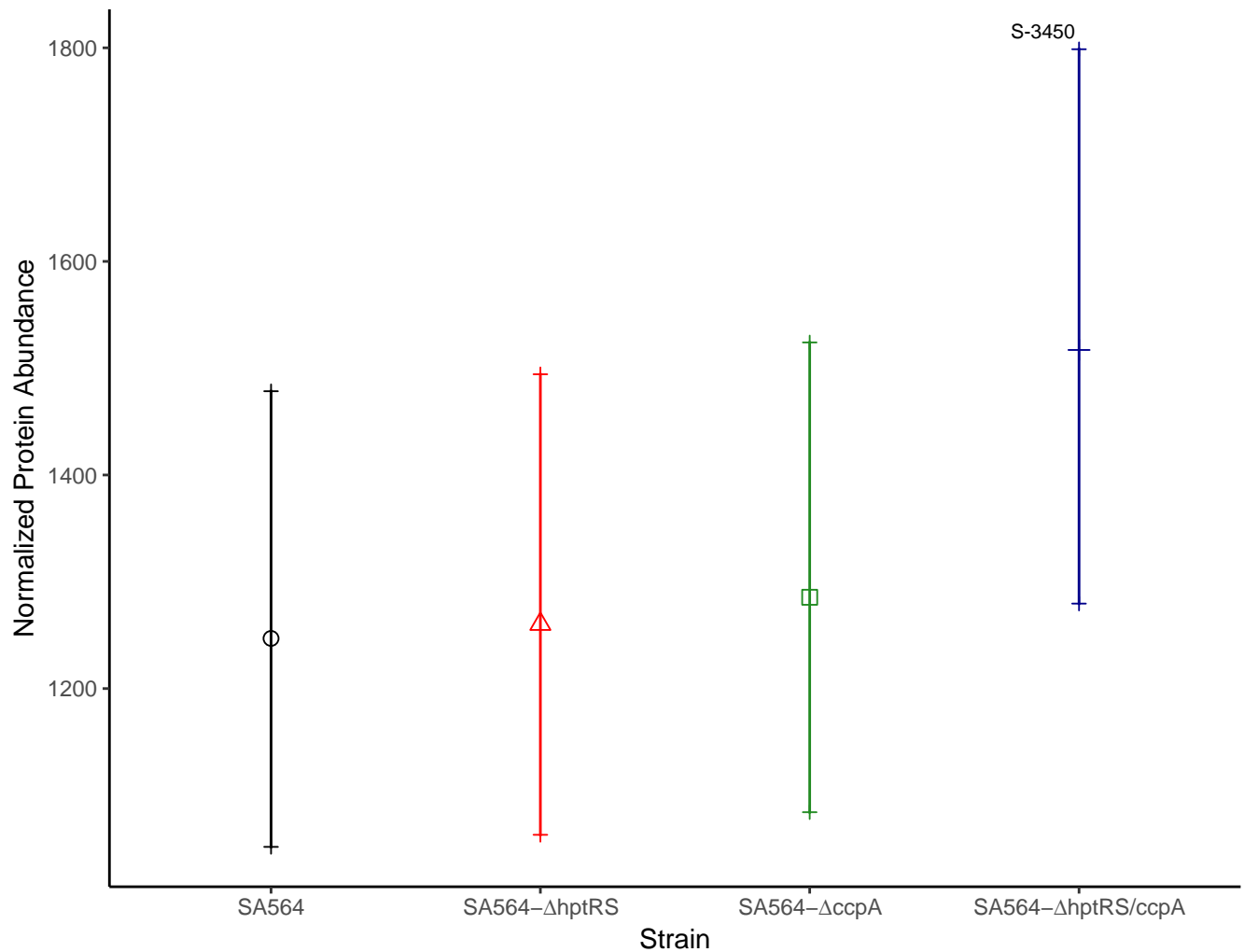


# TSAD\_STAAM



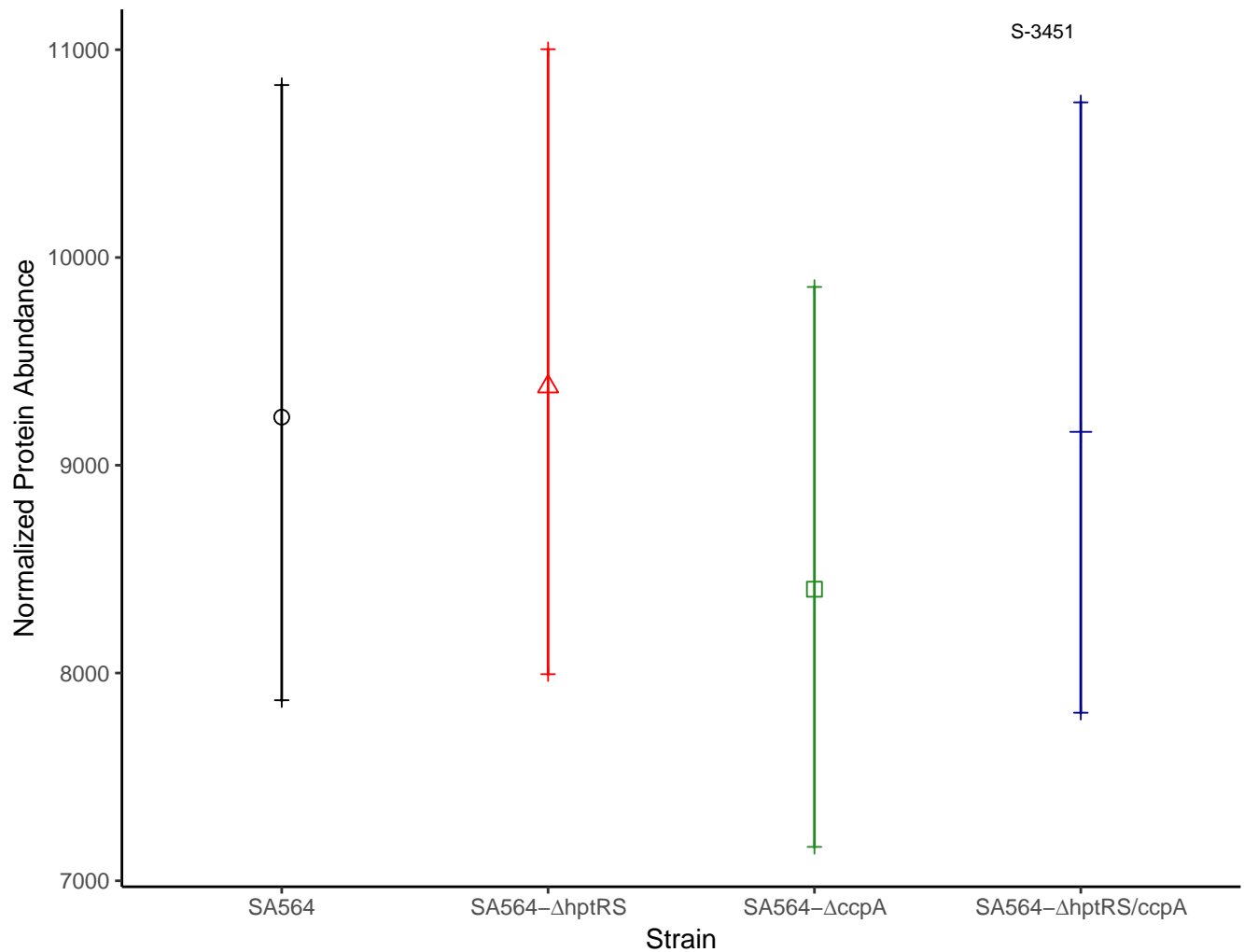
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TYRA\_STAAM



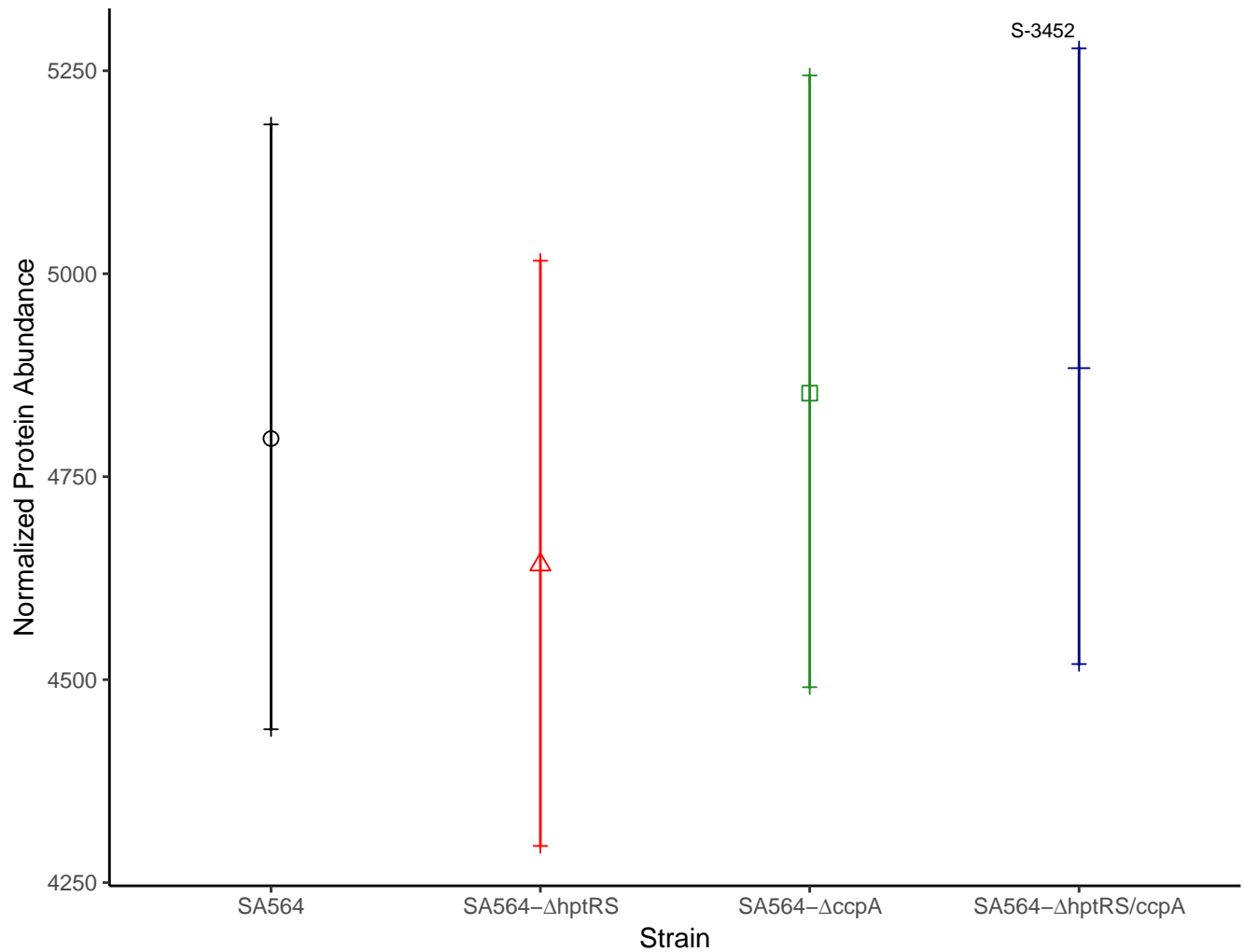
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# TYSY\_STAAM



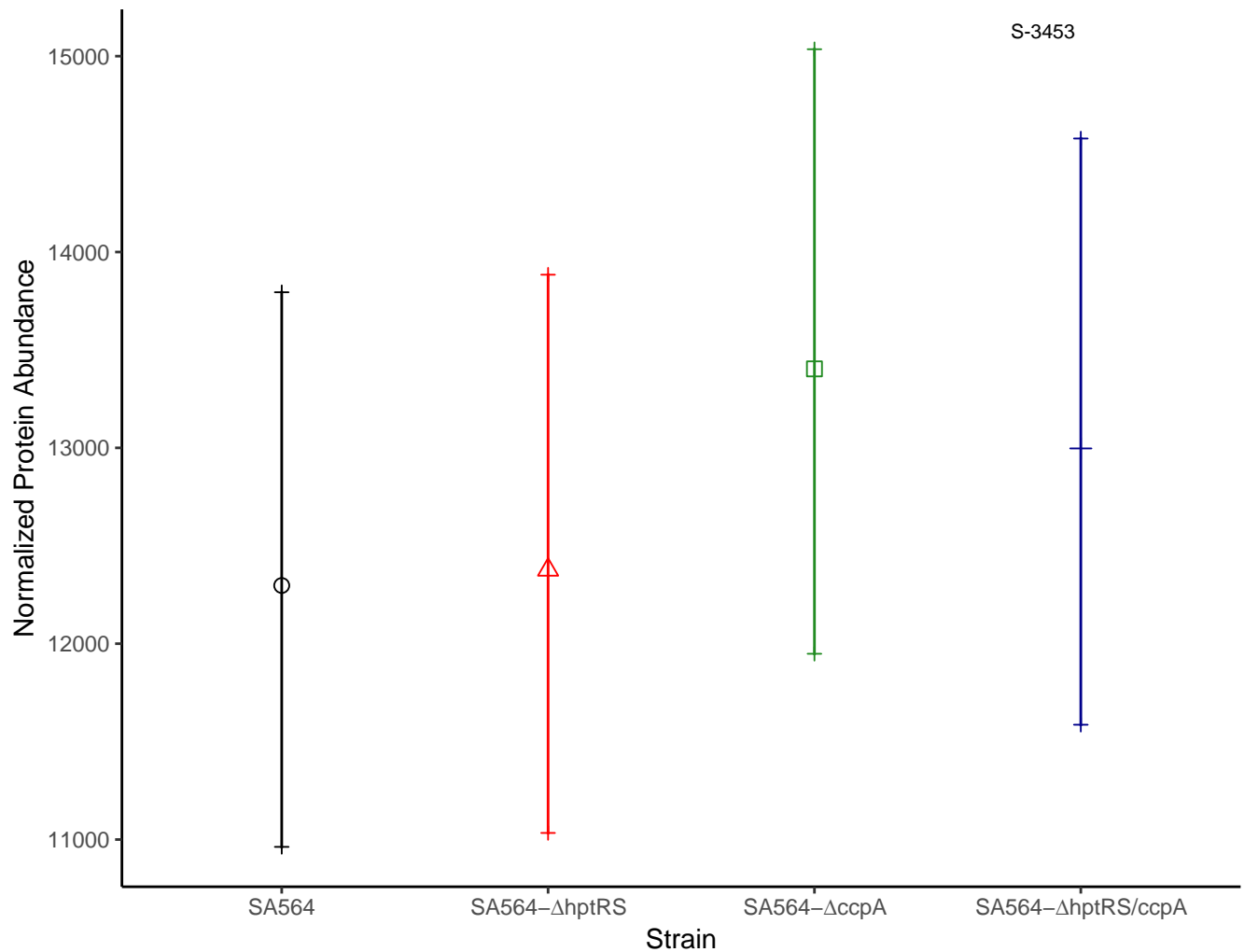
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UNG\_STAAM



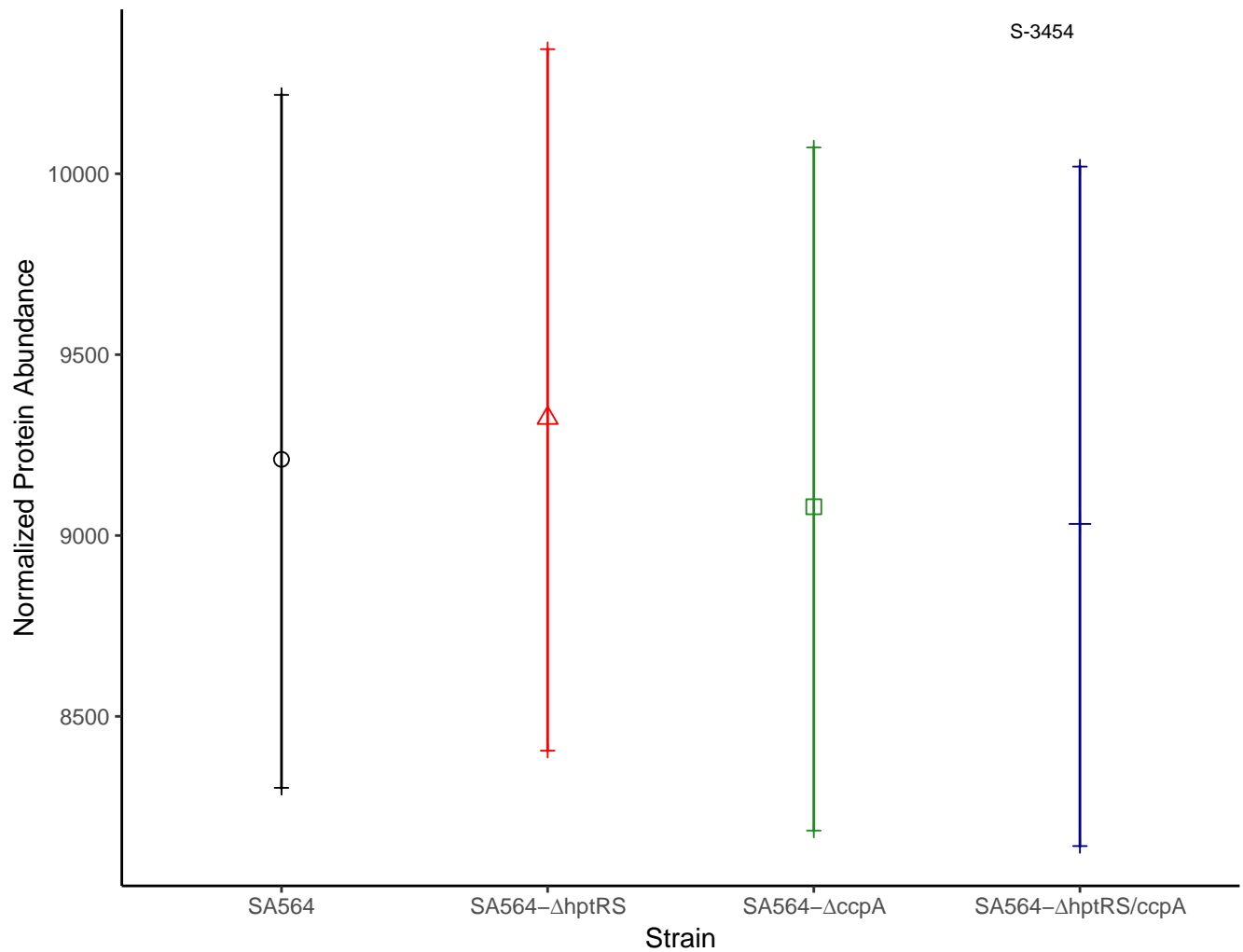
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UP355\_STAAM



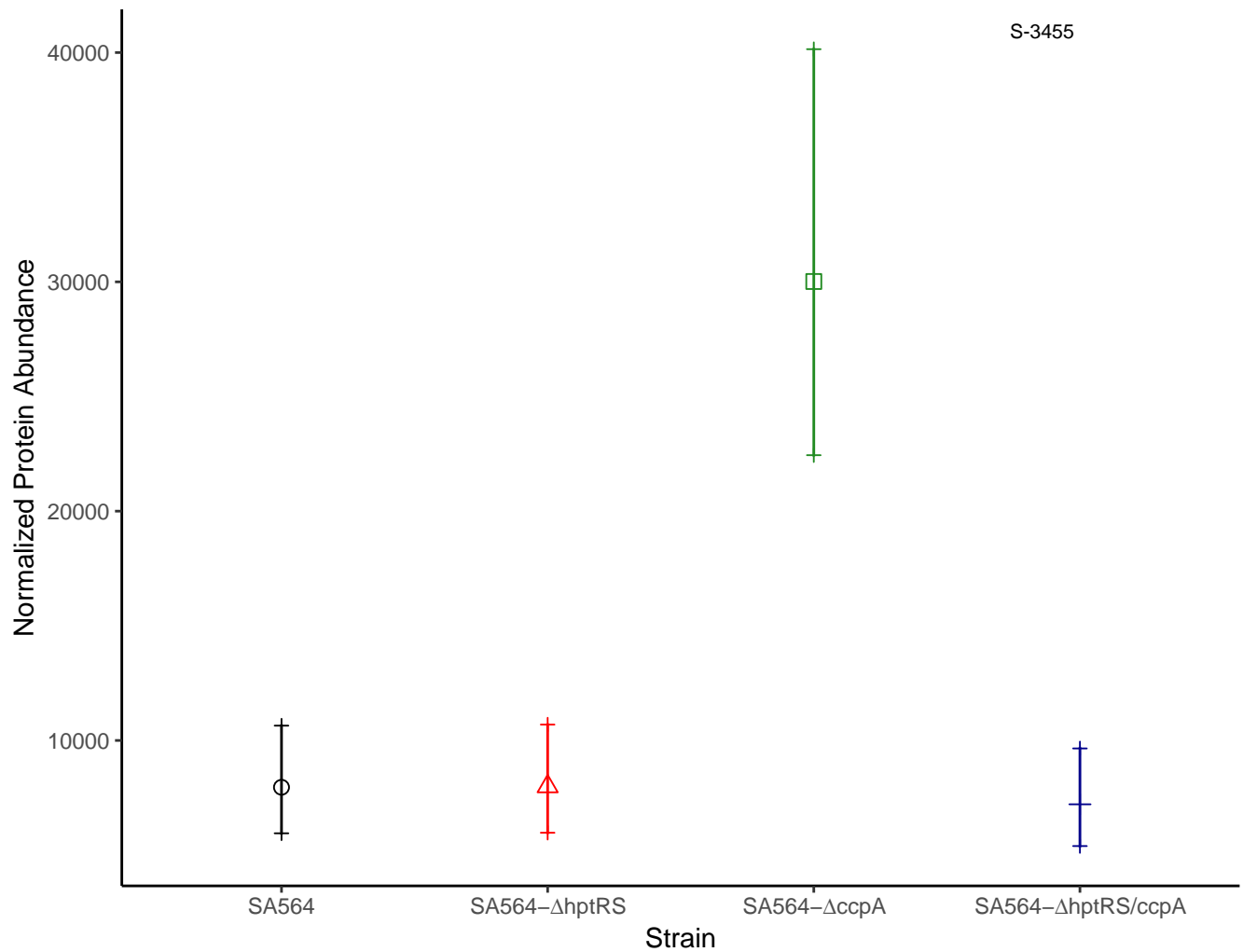
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UPP\_STAAM



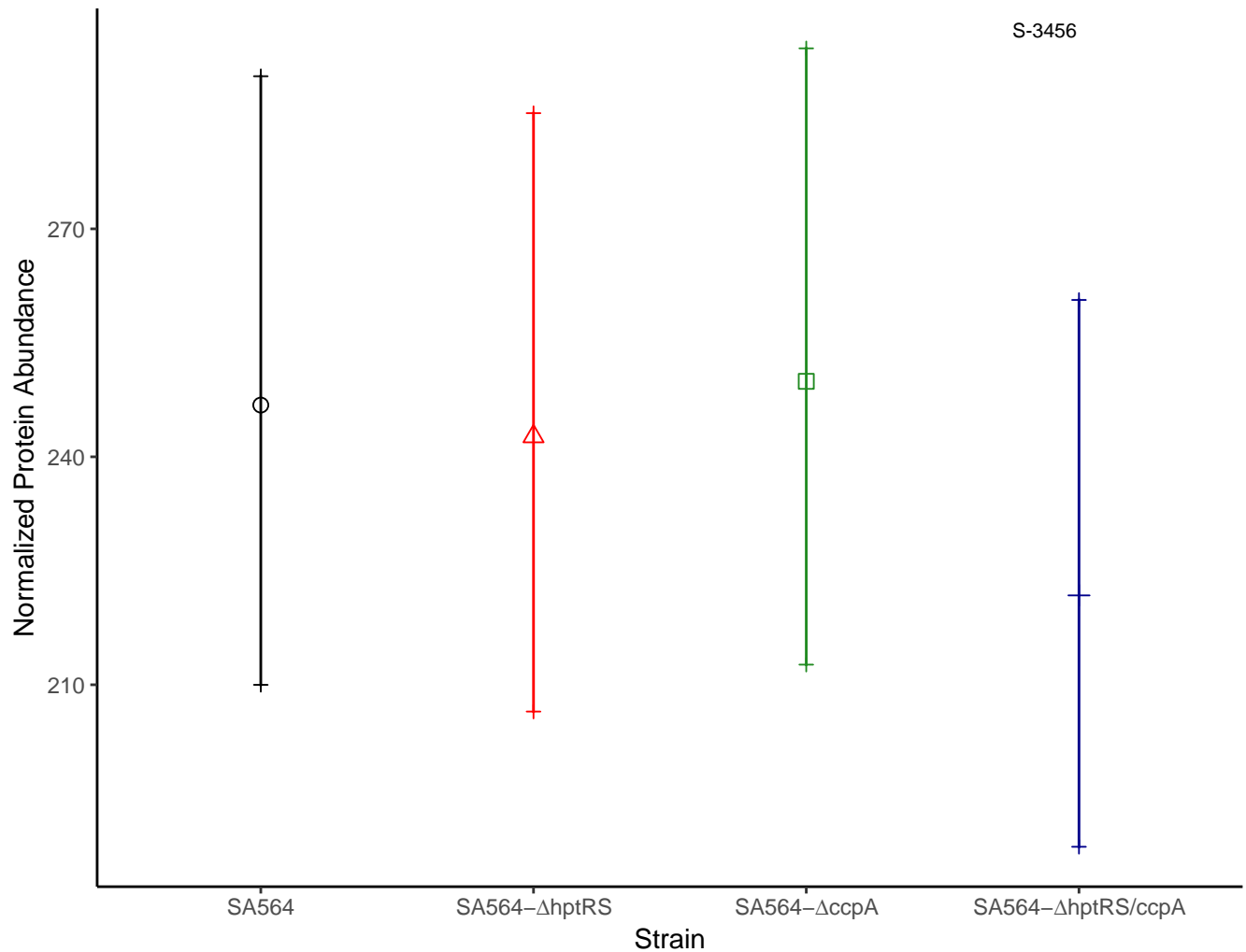
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UREE\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

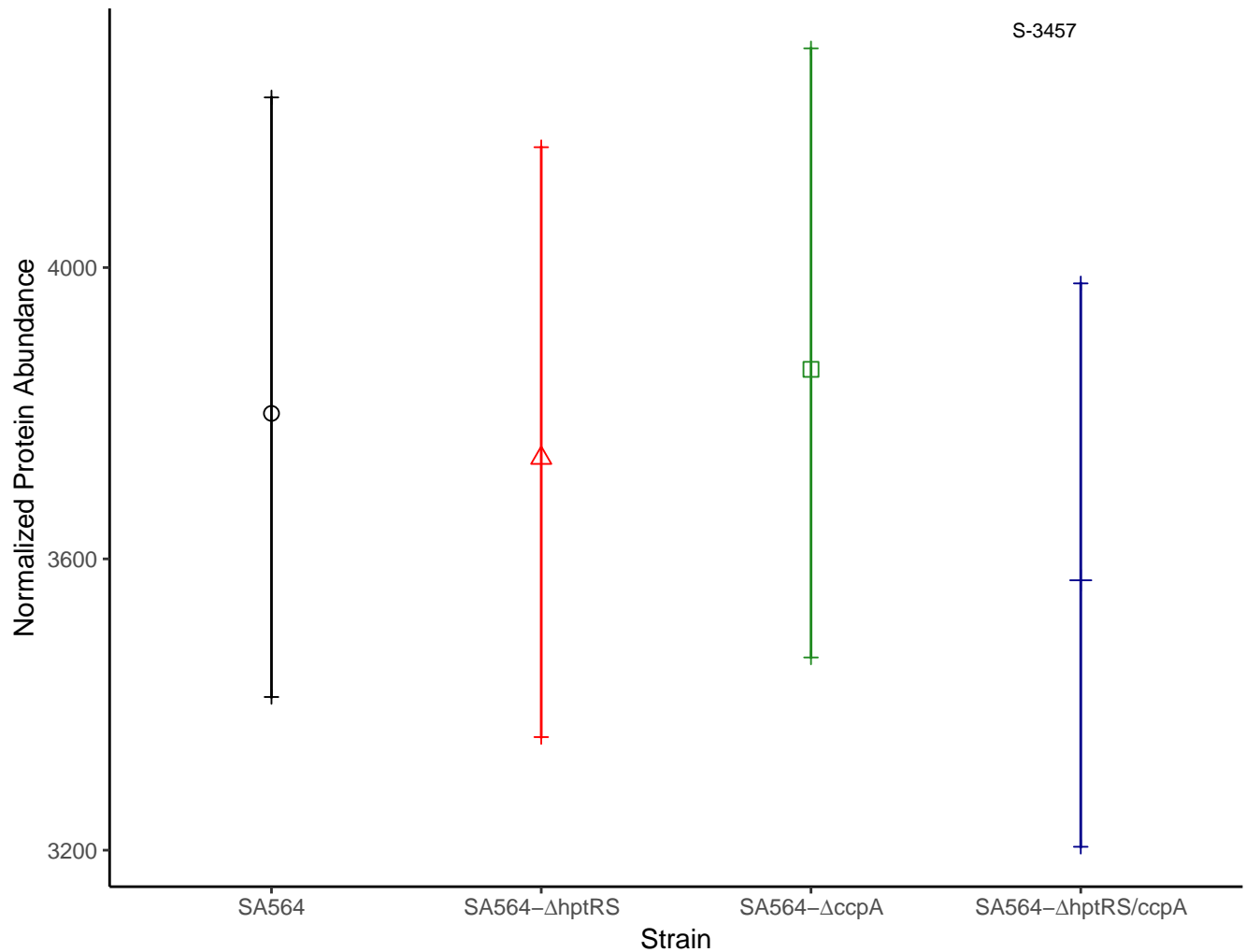
# UREG\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

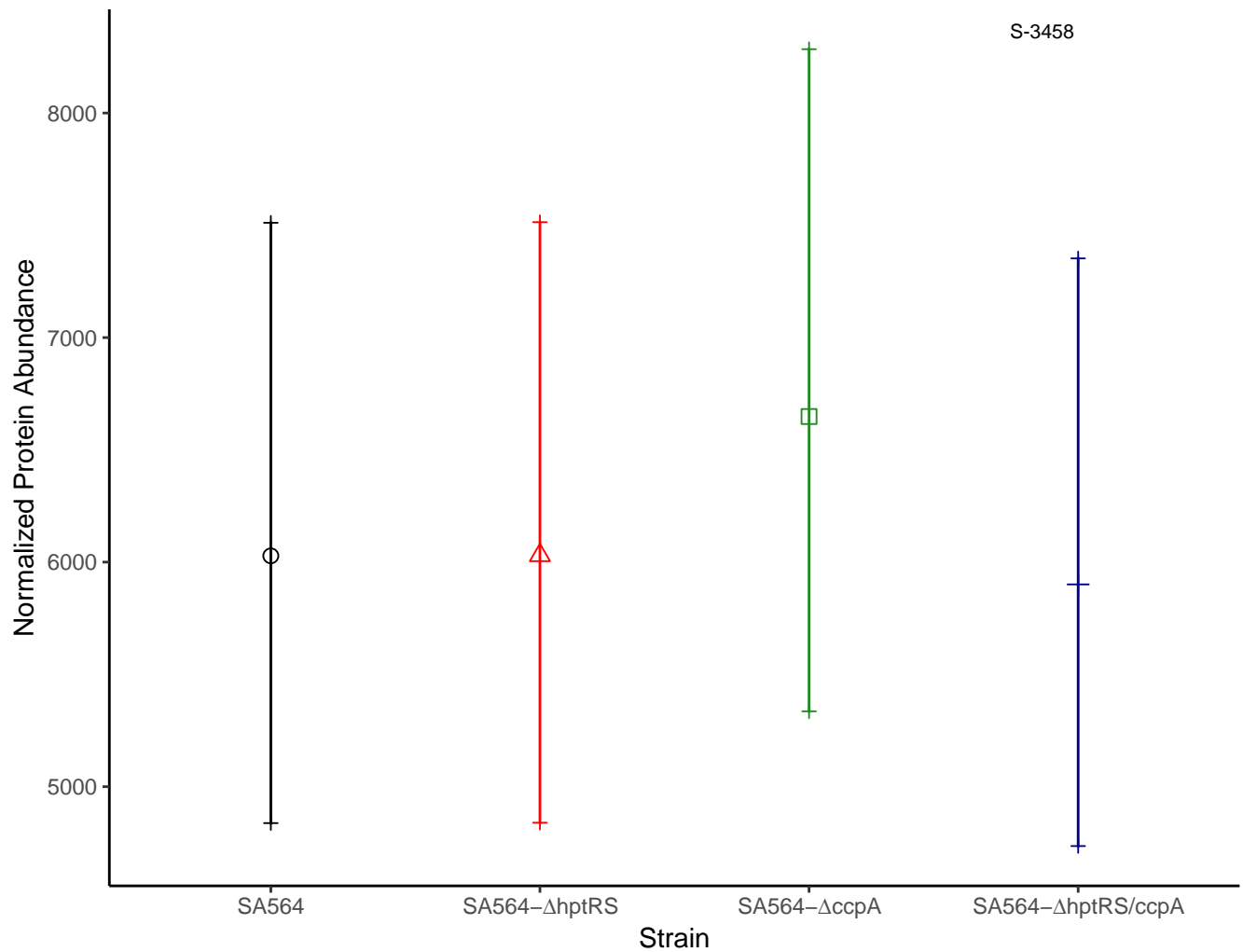


# URK\_STAAM



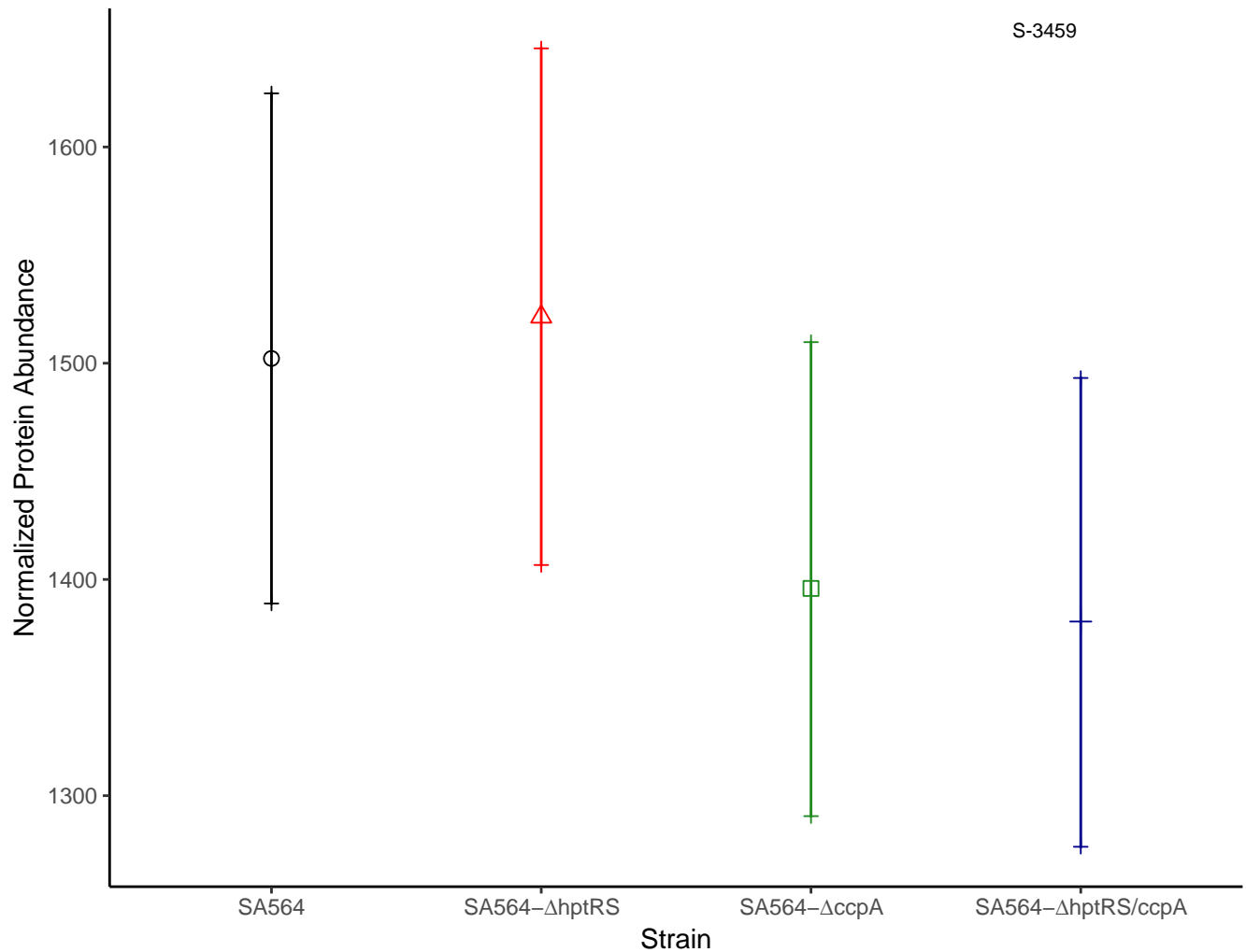
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# URTF\_STAAM



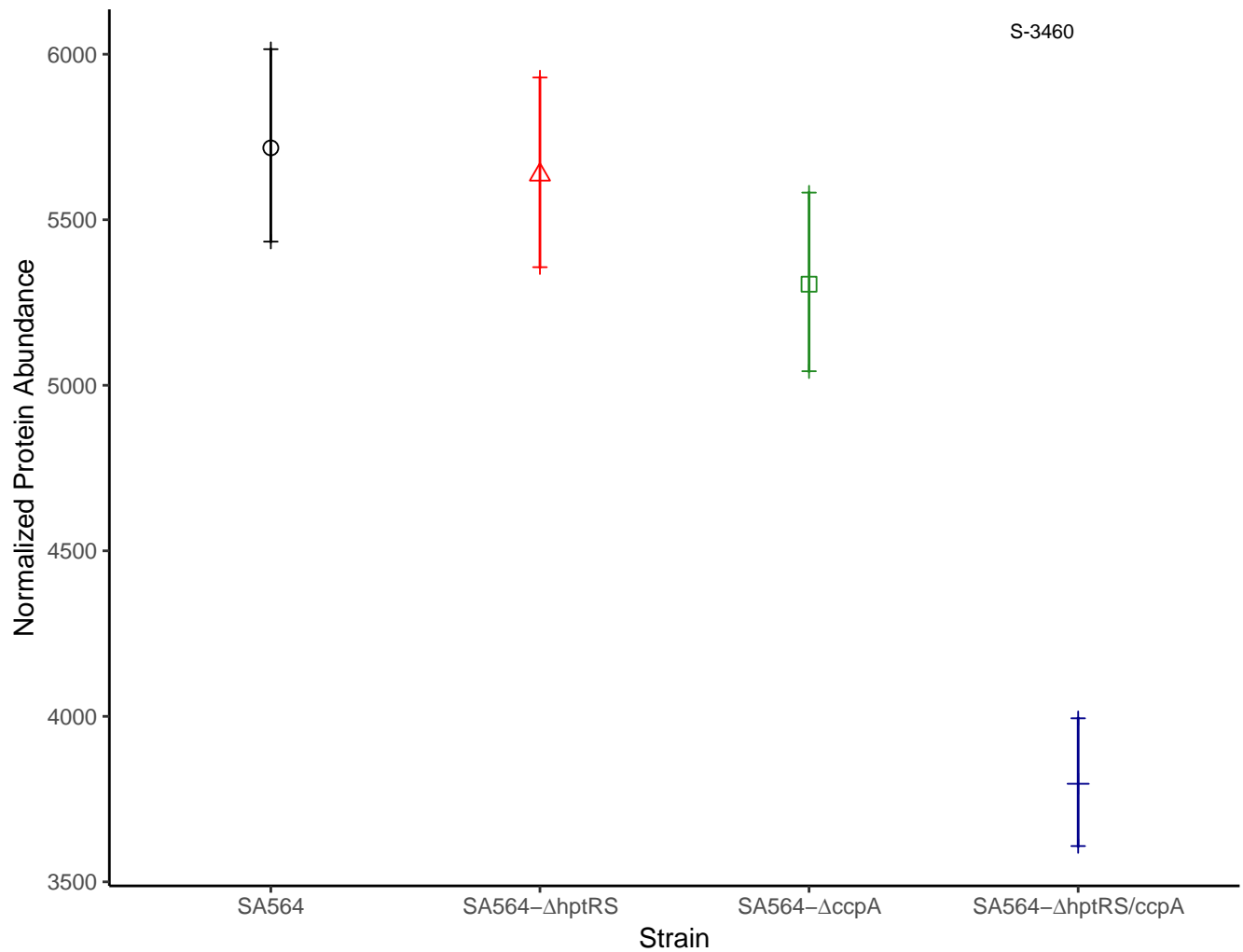
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# UVRA\_STAAM



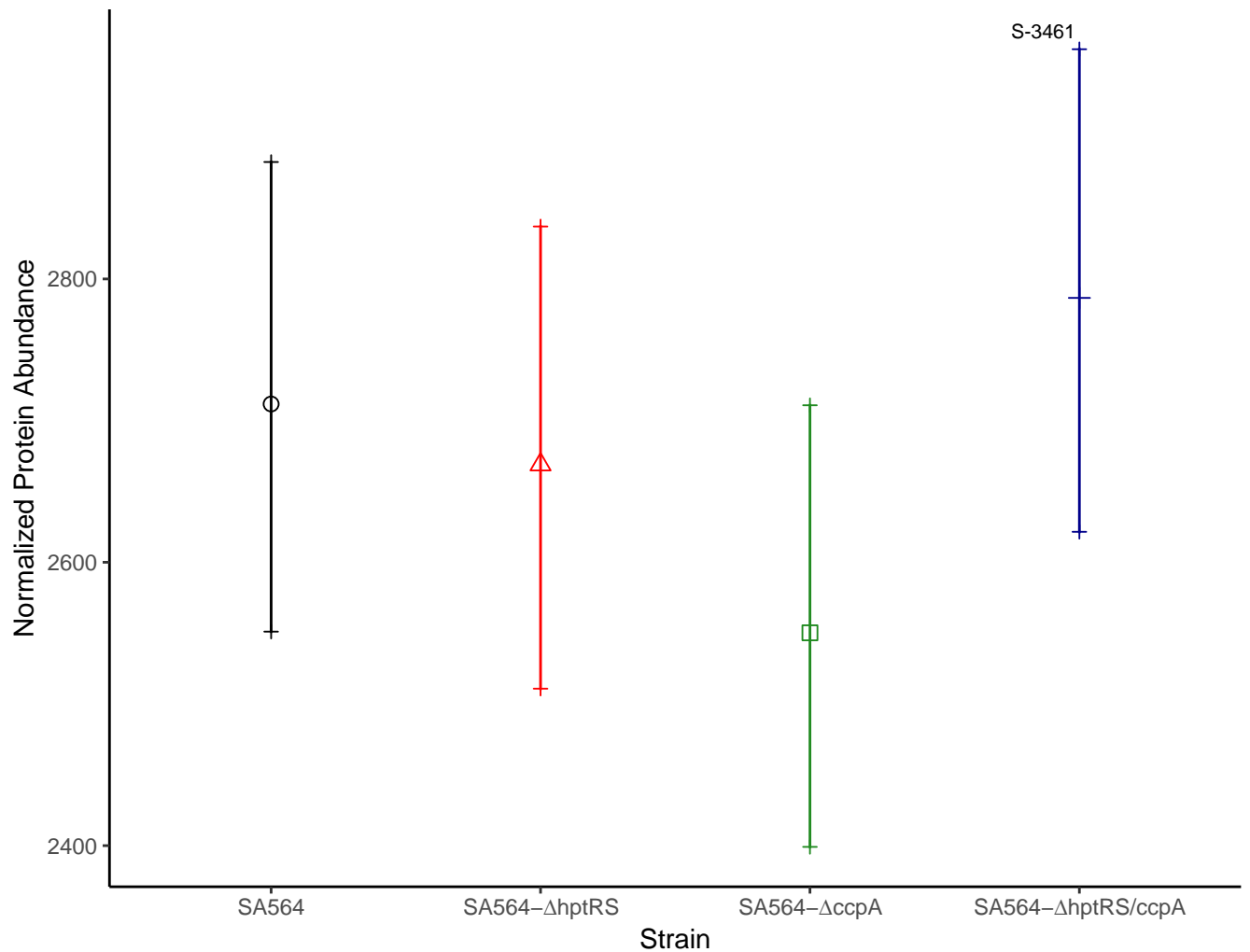
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# VRAC\_STAAM



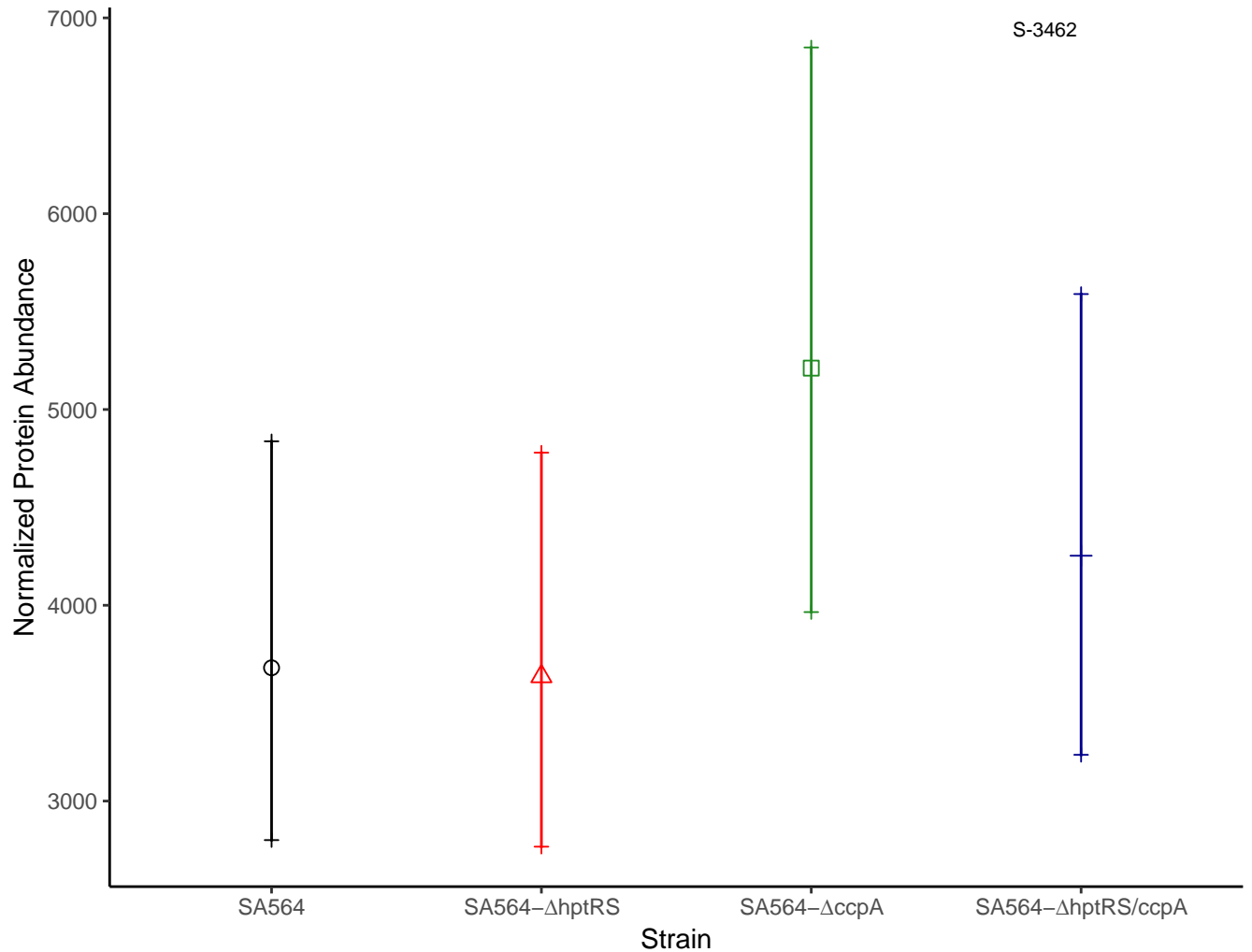
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# VRAR\_STAAM



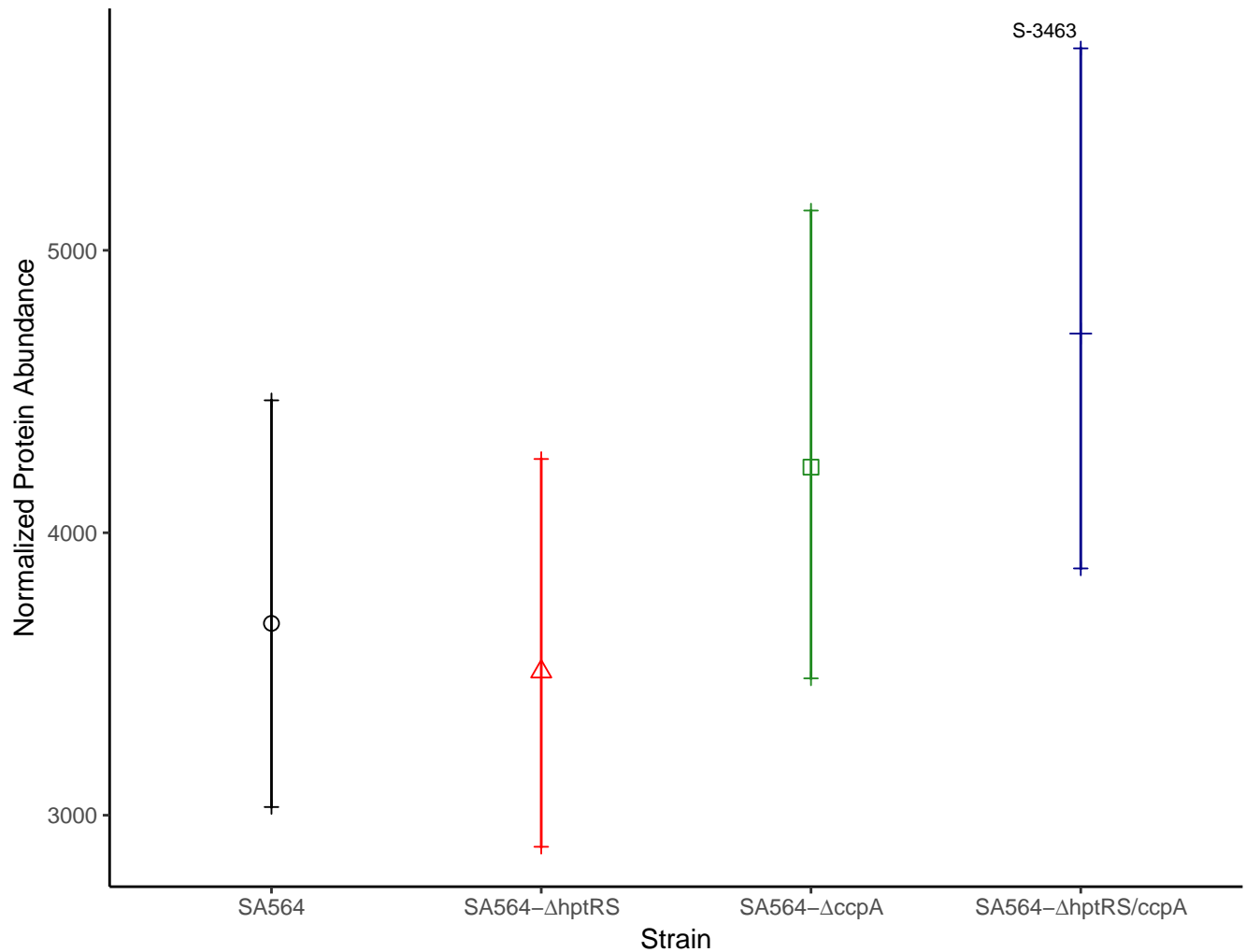
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# WALK\_STAAM



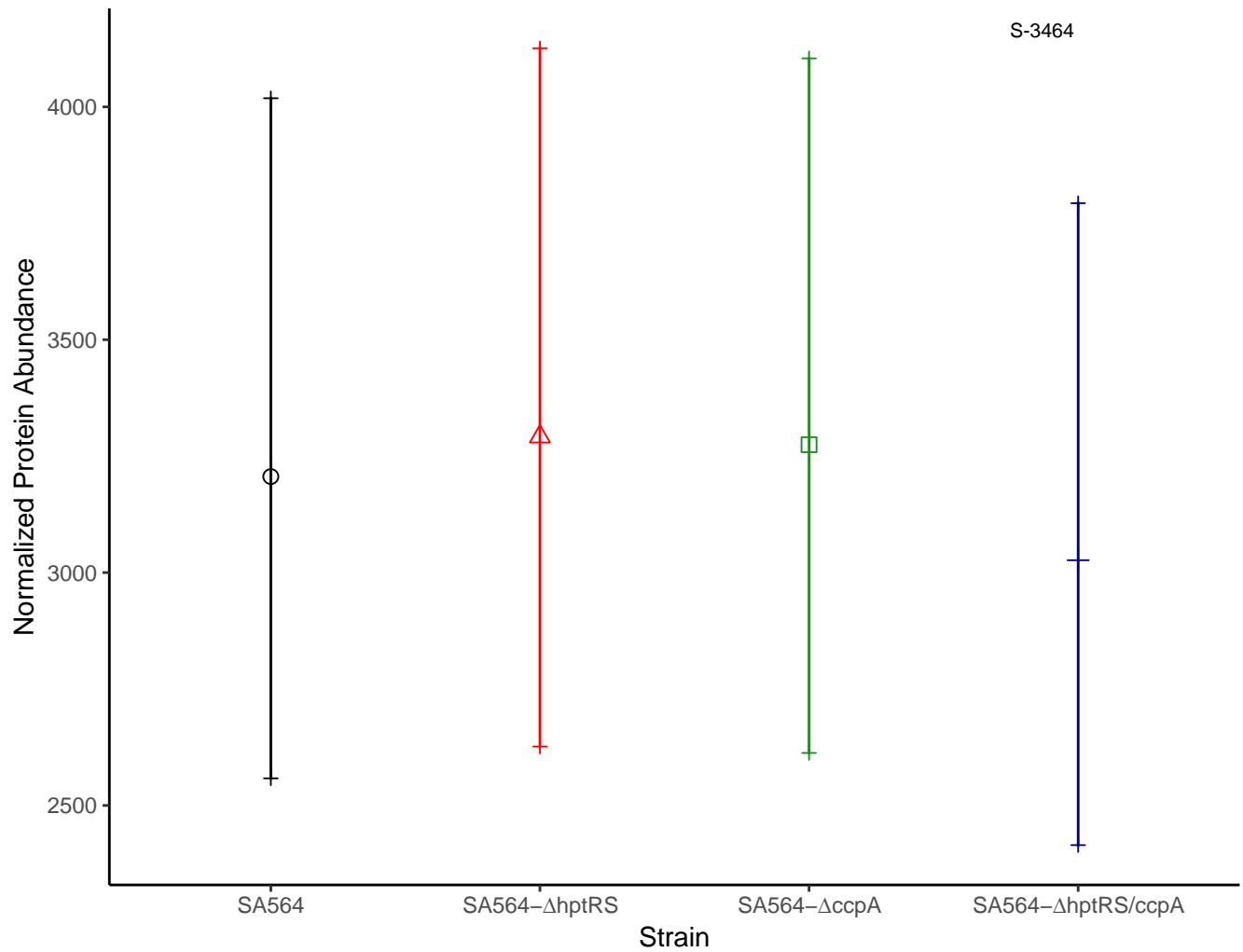
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# WALR\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

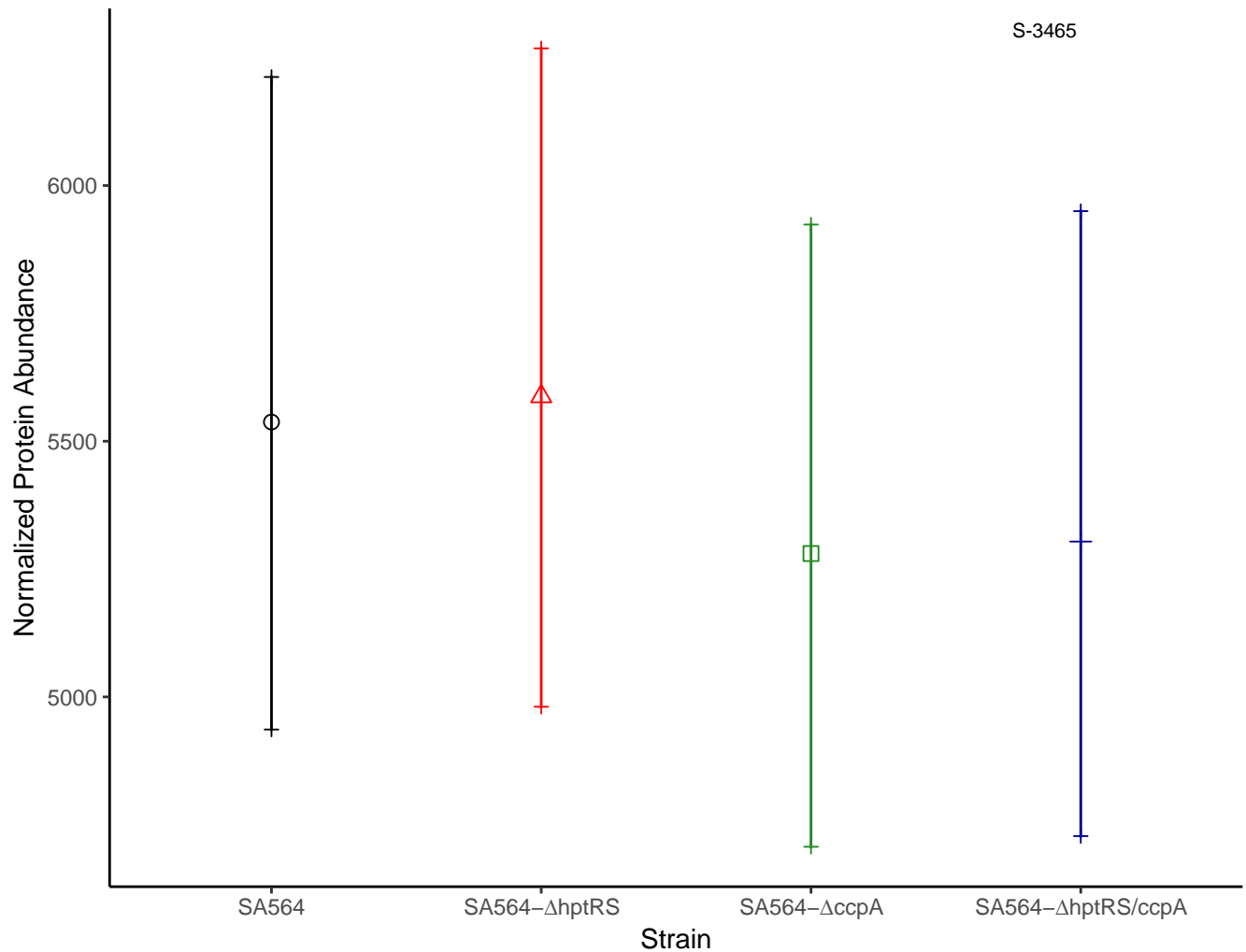
# XERD\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

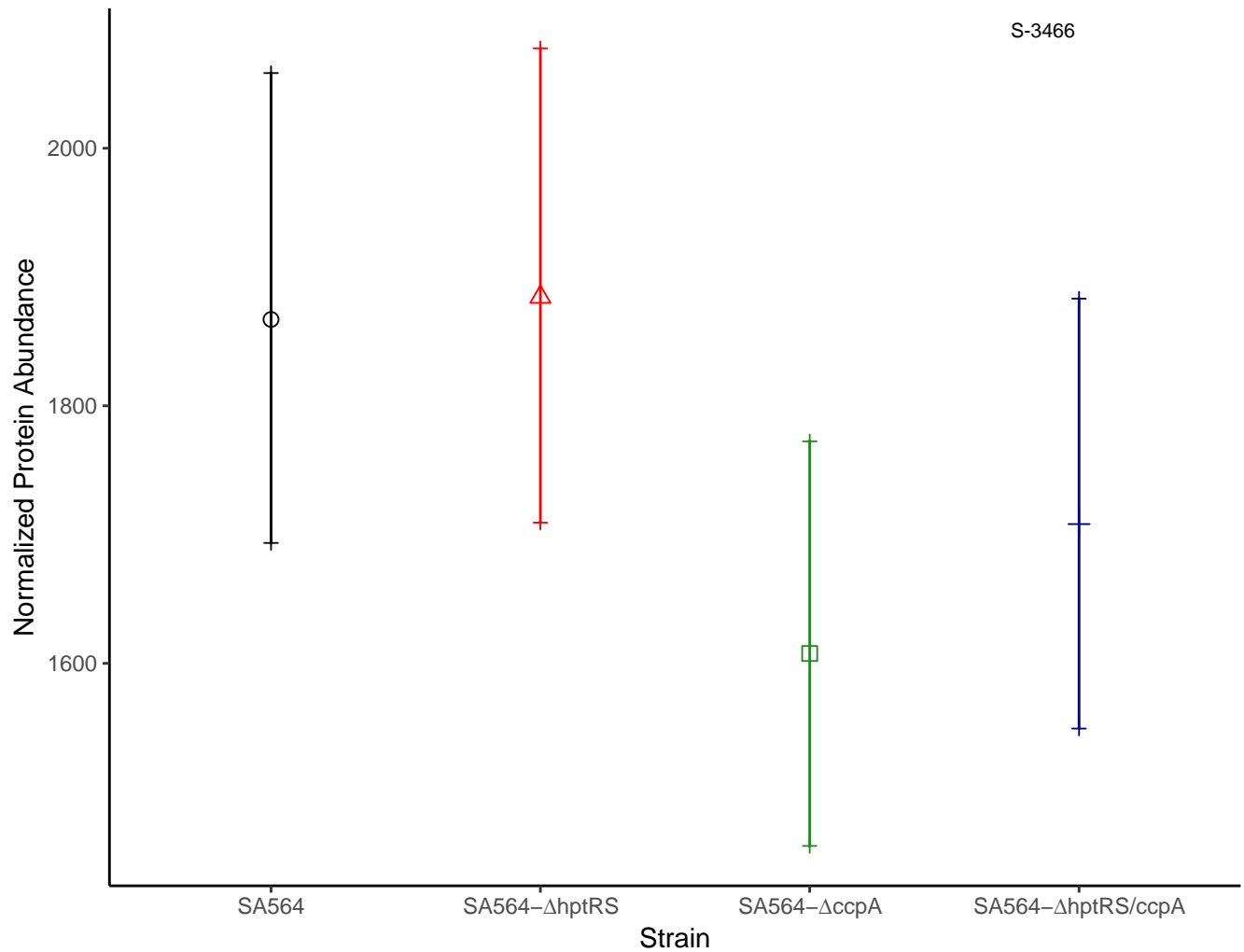


# XPT\_STAAM



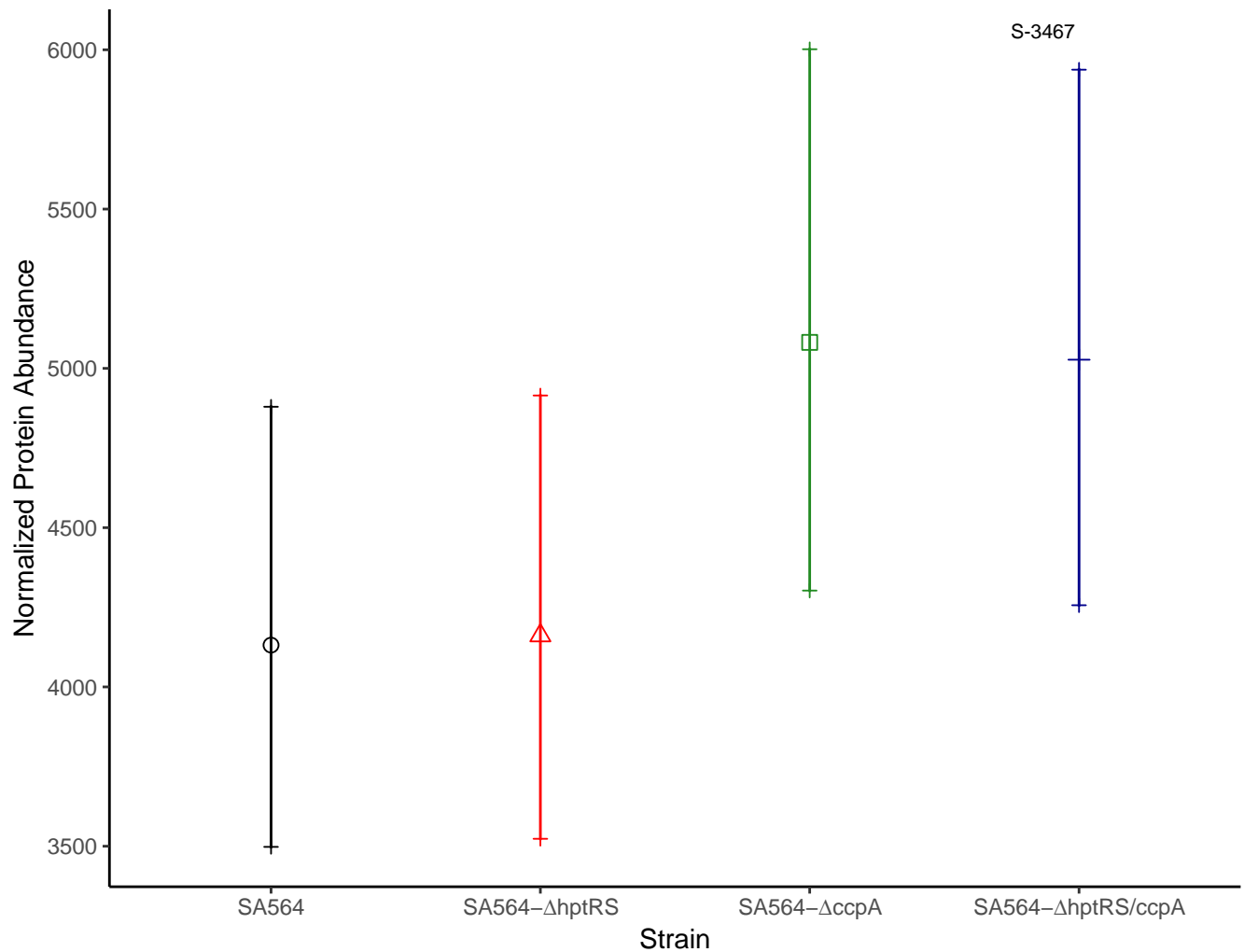
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# Y098\_STAAM



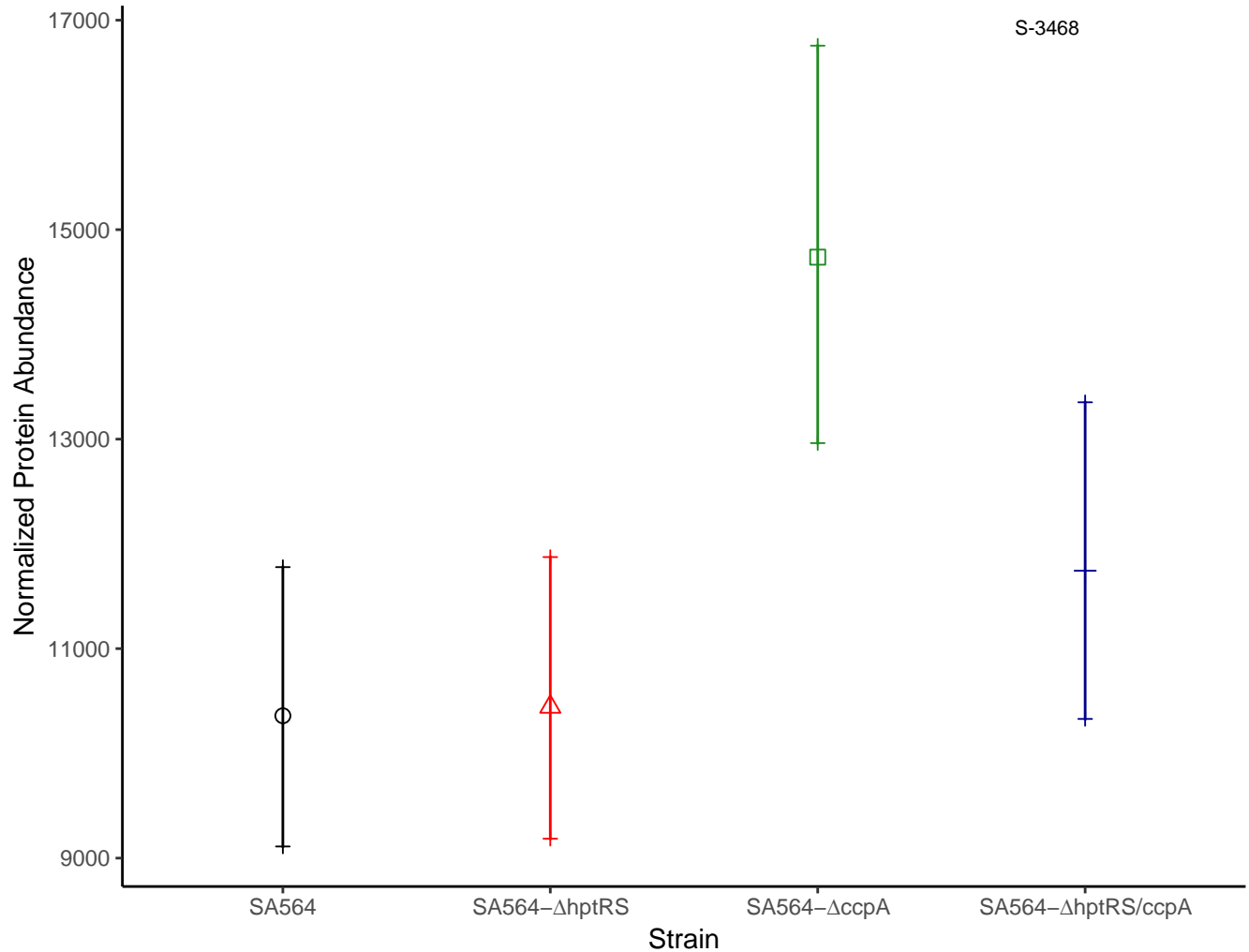
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y099\_STAAM



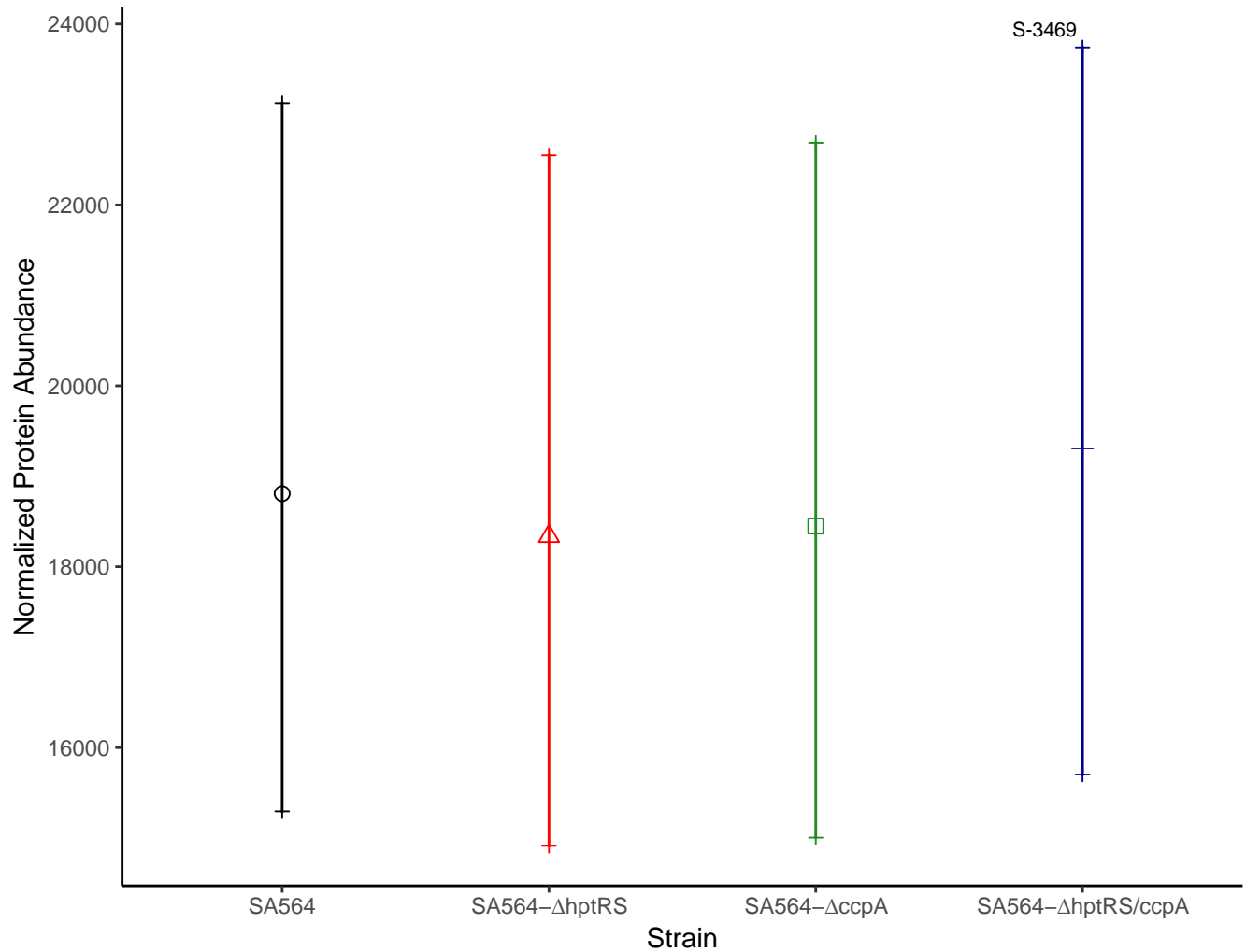
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1015\_STAAM



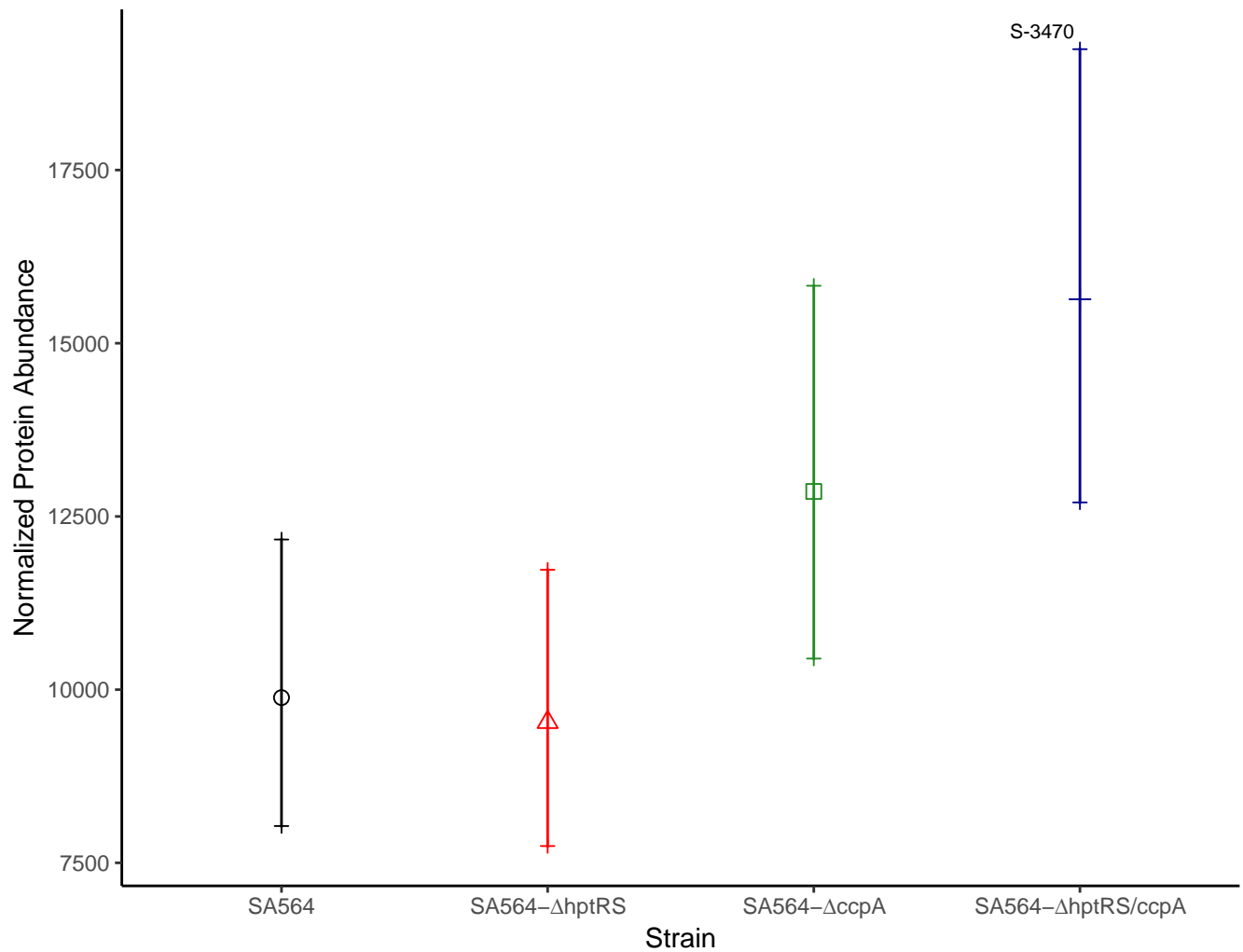
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# Y1090\_STAAM



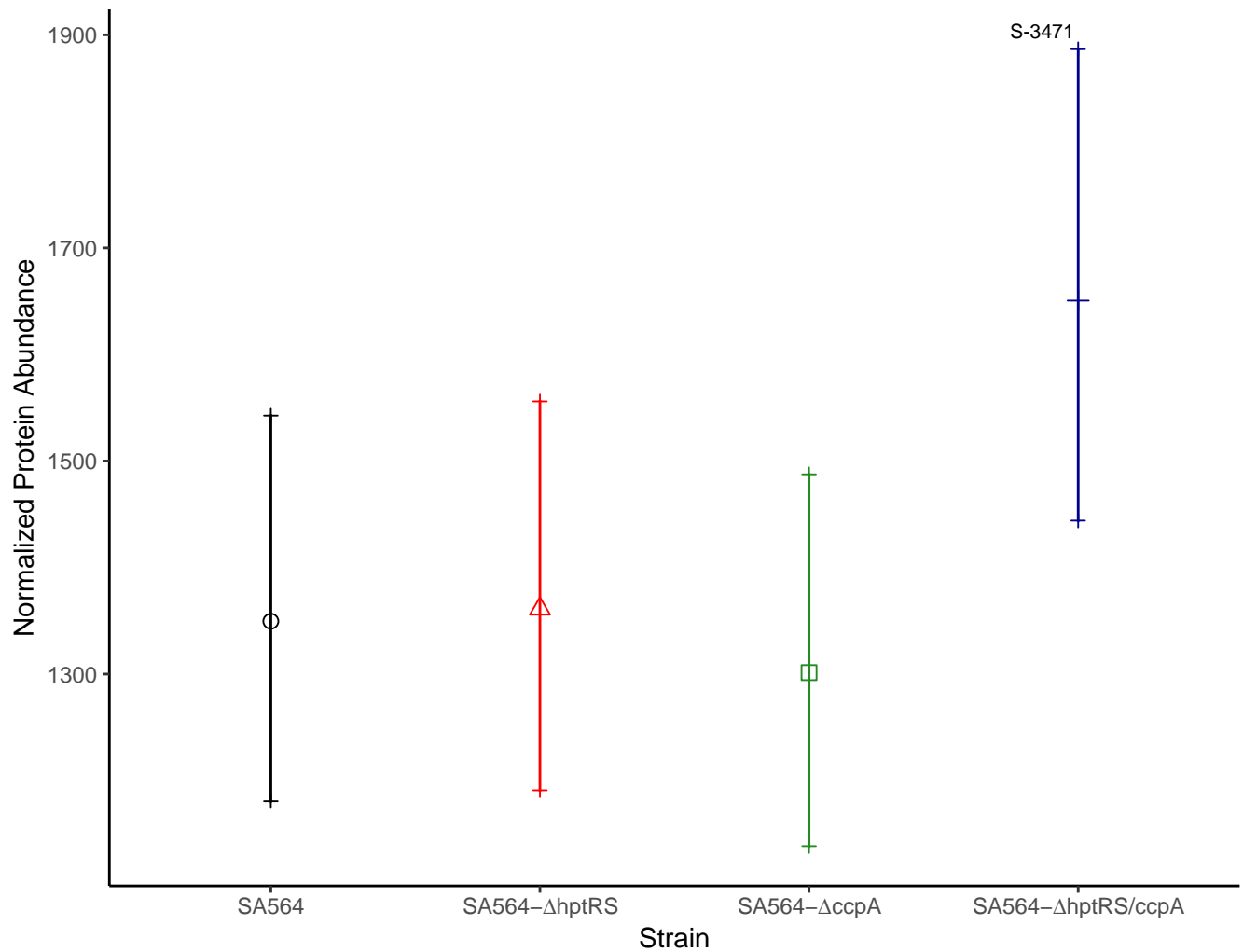
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1176\_STAAM



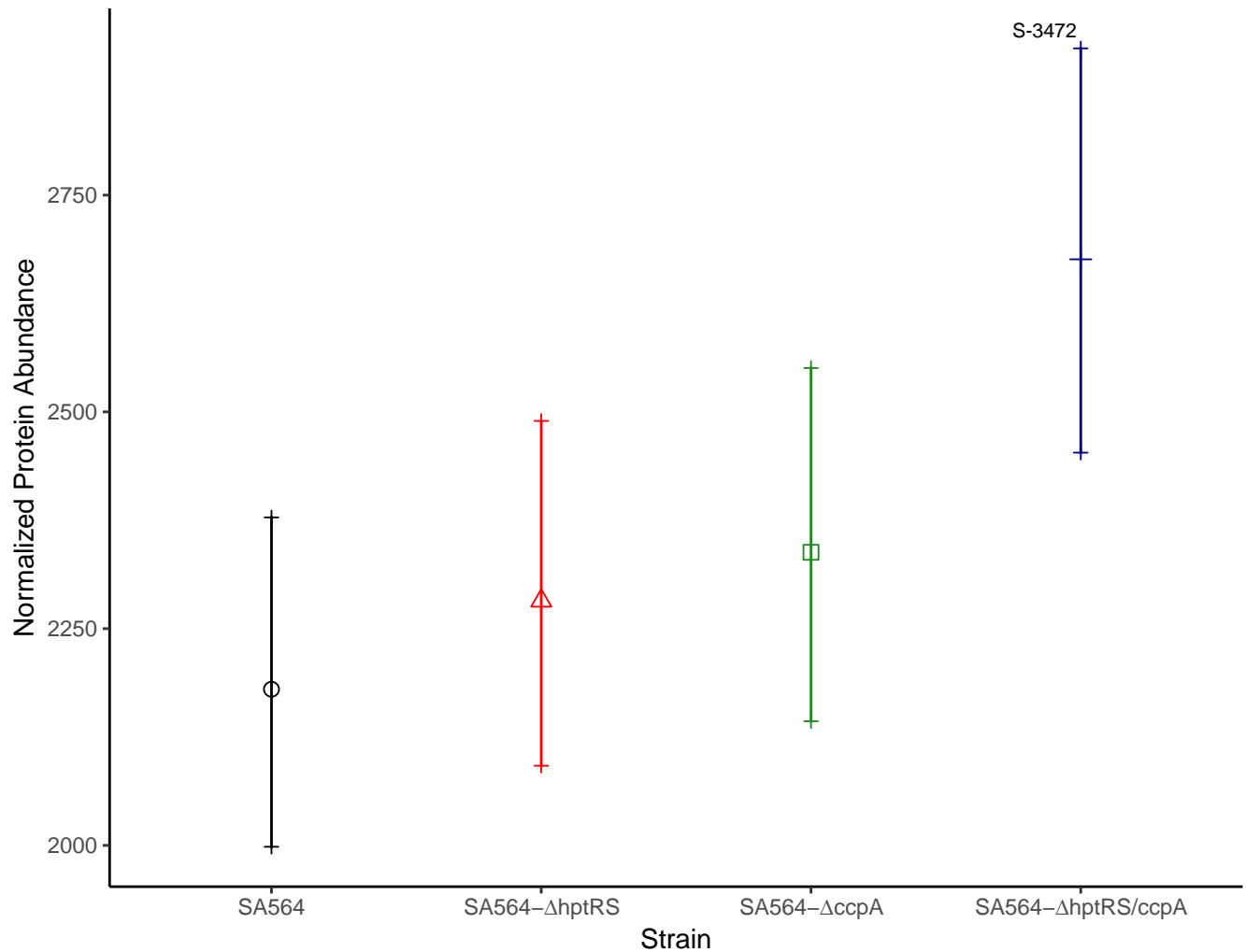
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1177\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

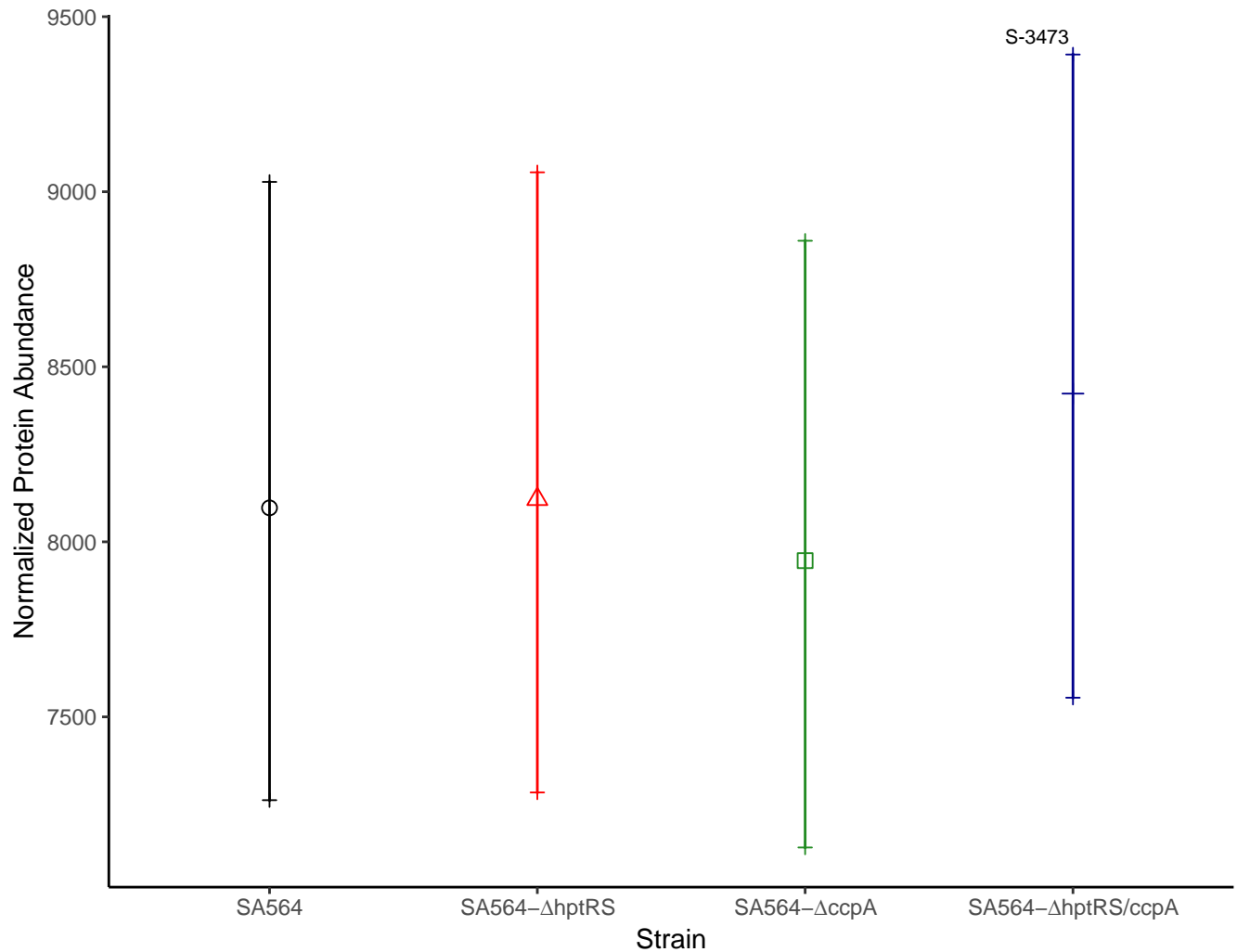
# Y1187\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



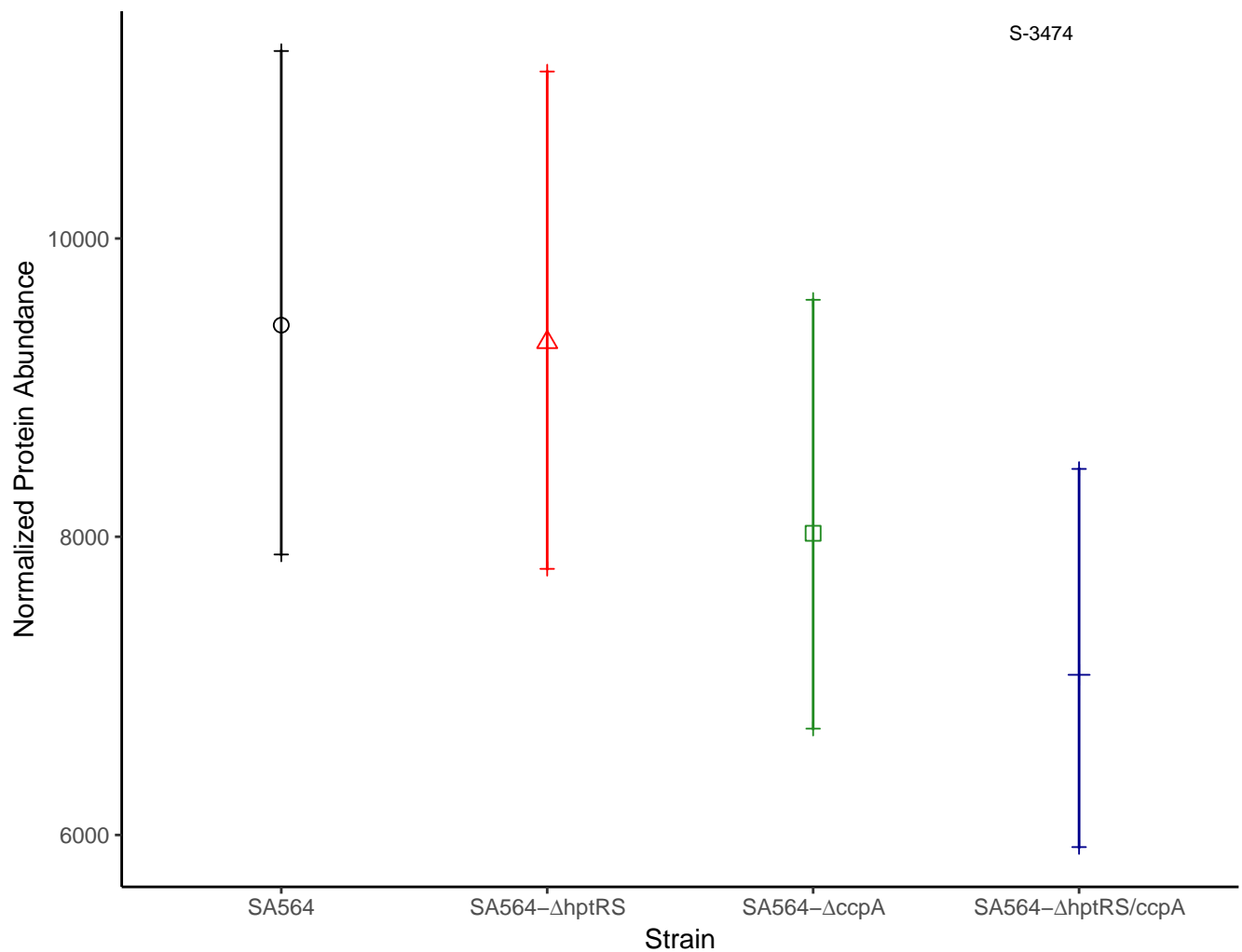
# Y1226\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

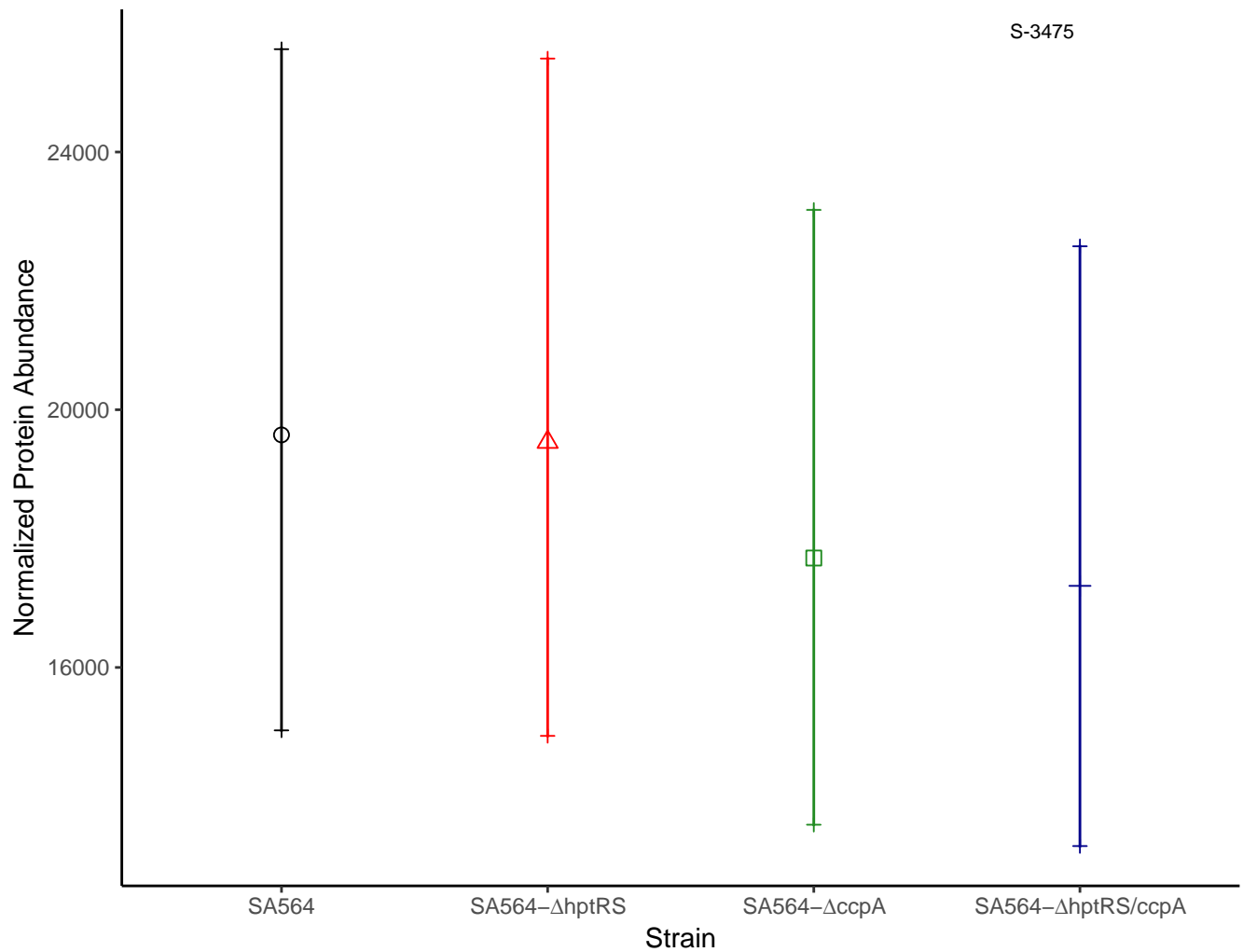
# Y1341\_STAAM

S-3474



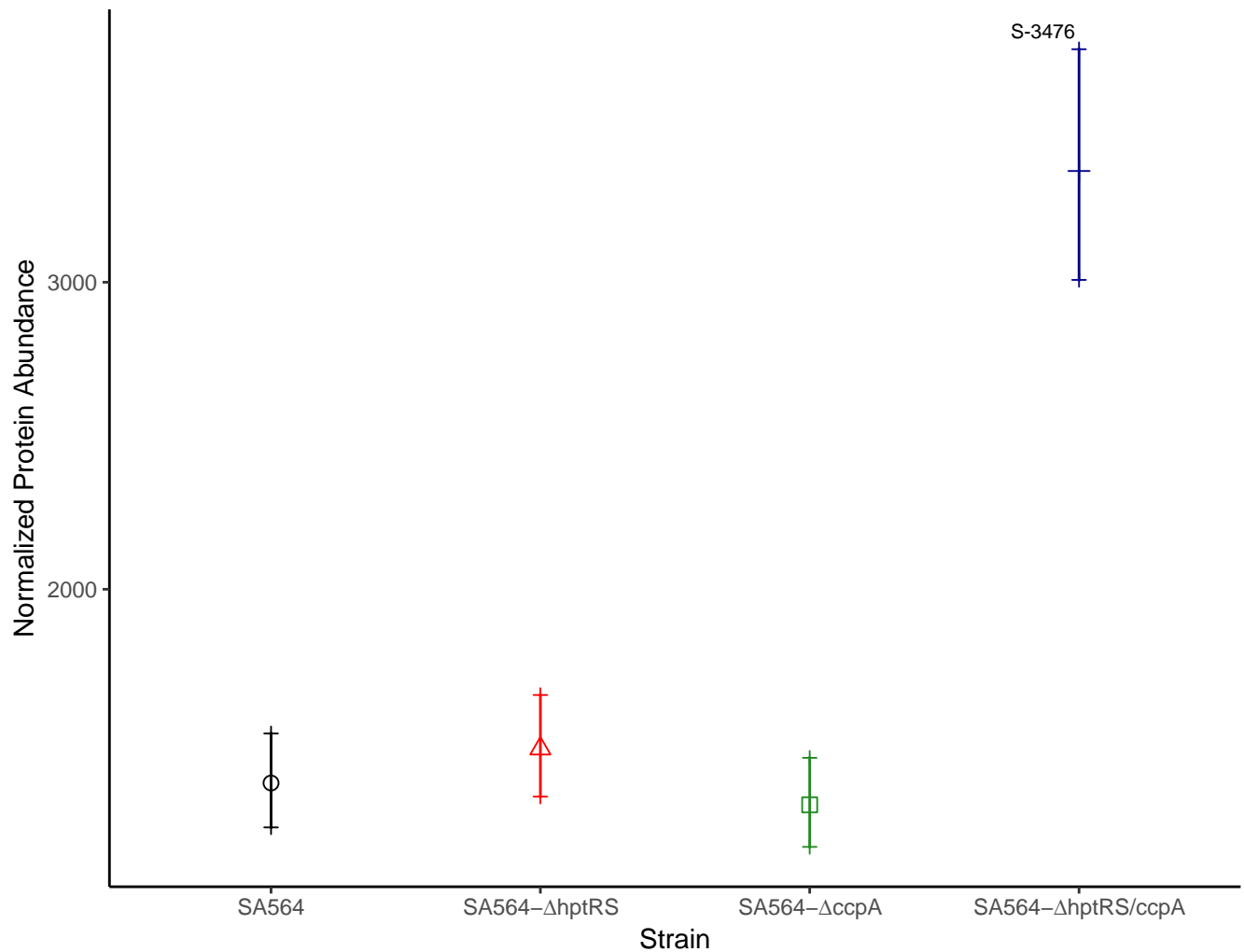
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1343\_STAAM



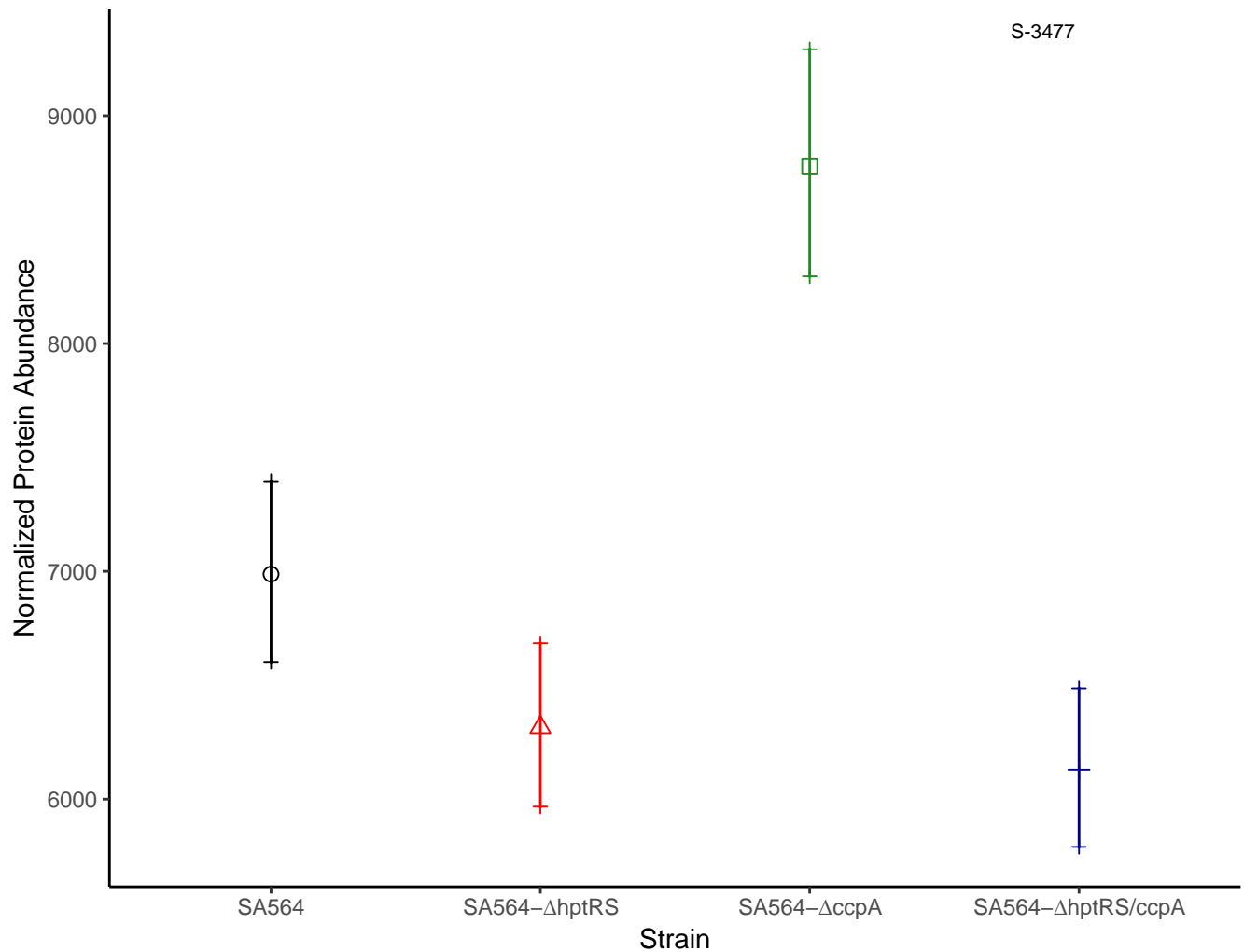
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1352\_STAAM



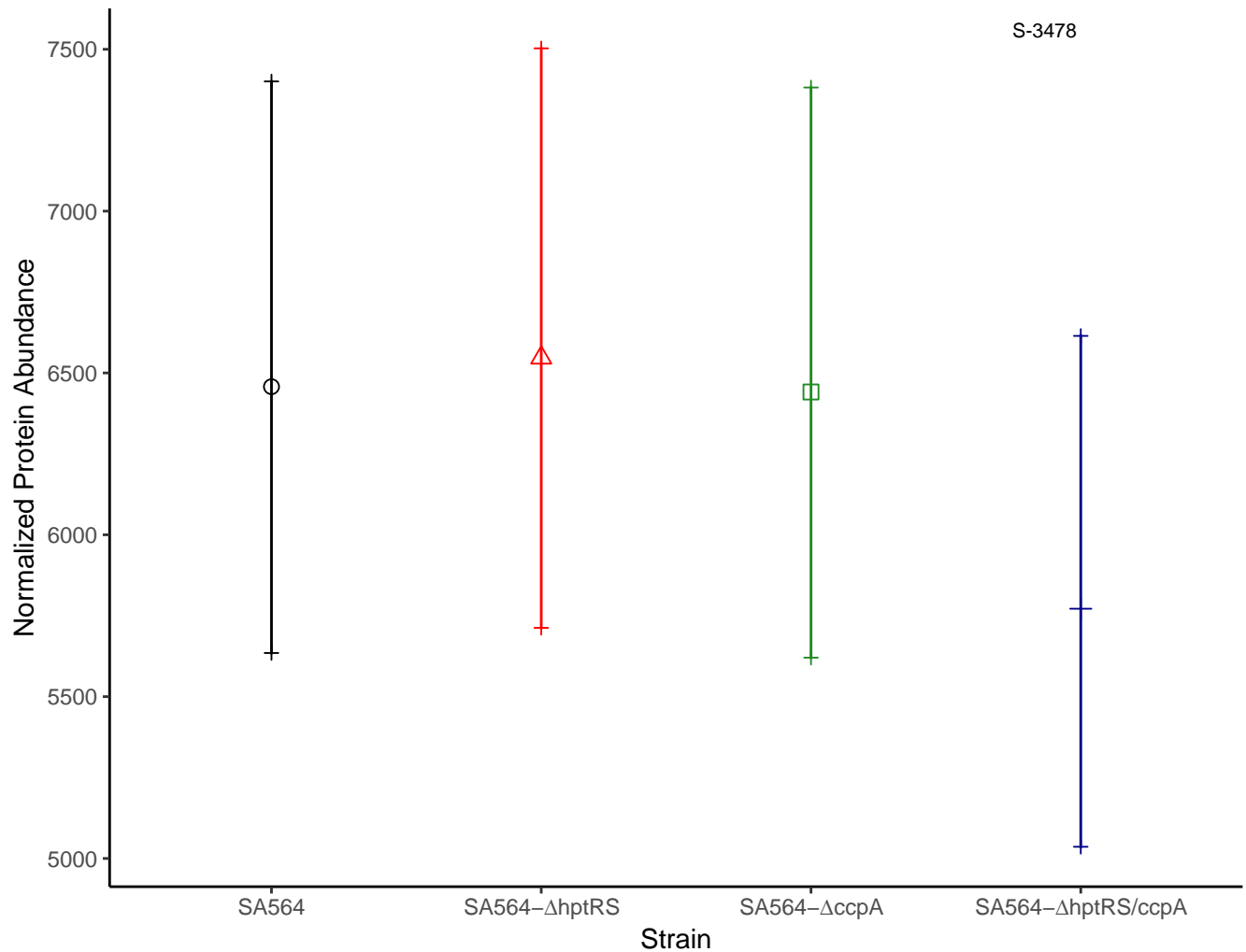
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1363\_STAAM



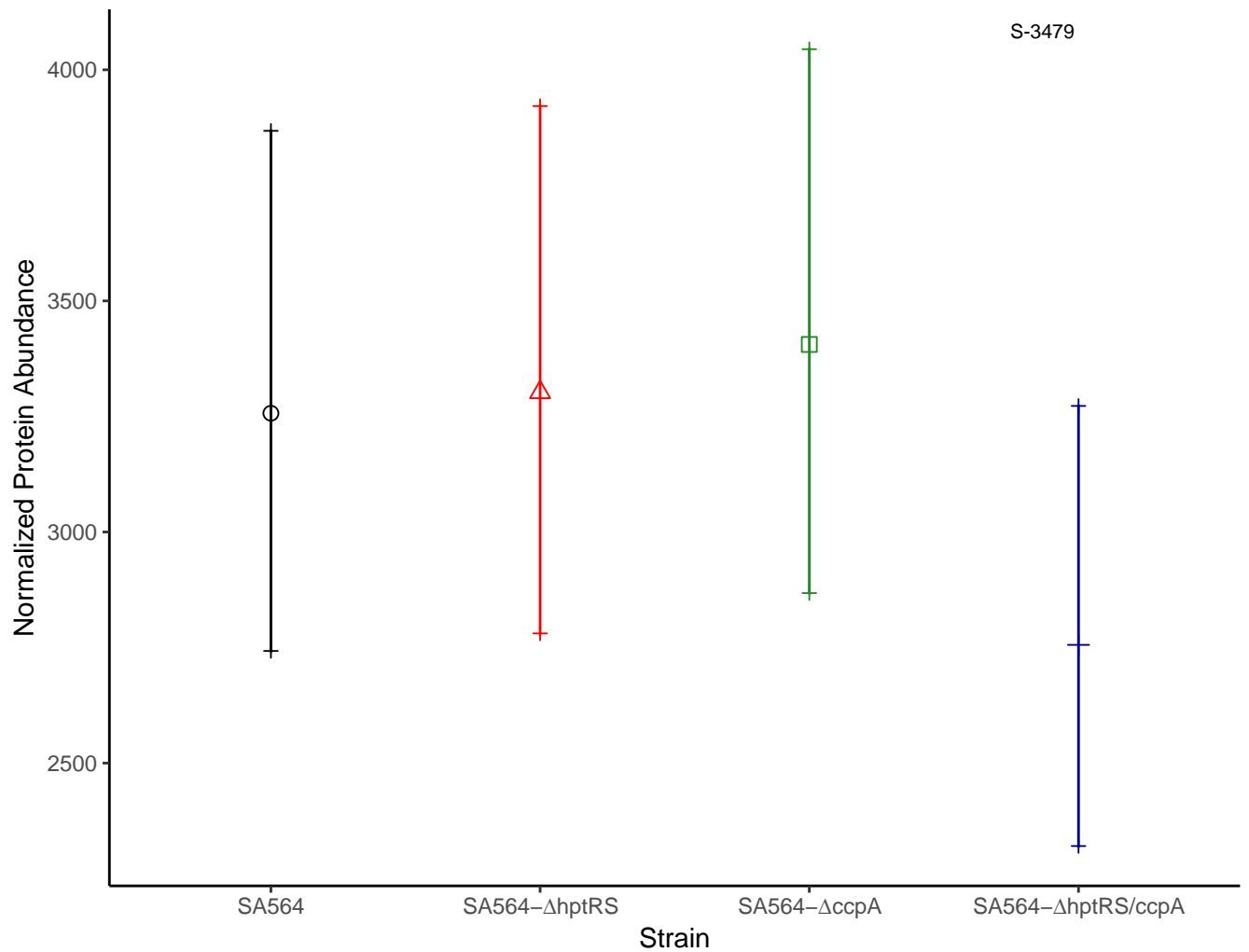
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# Y1409\_STAAM



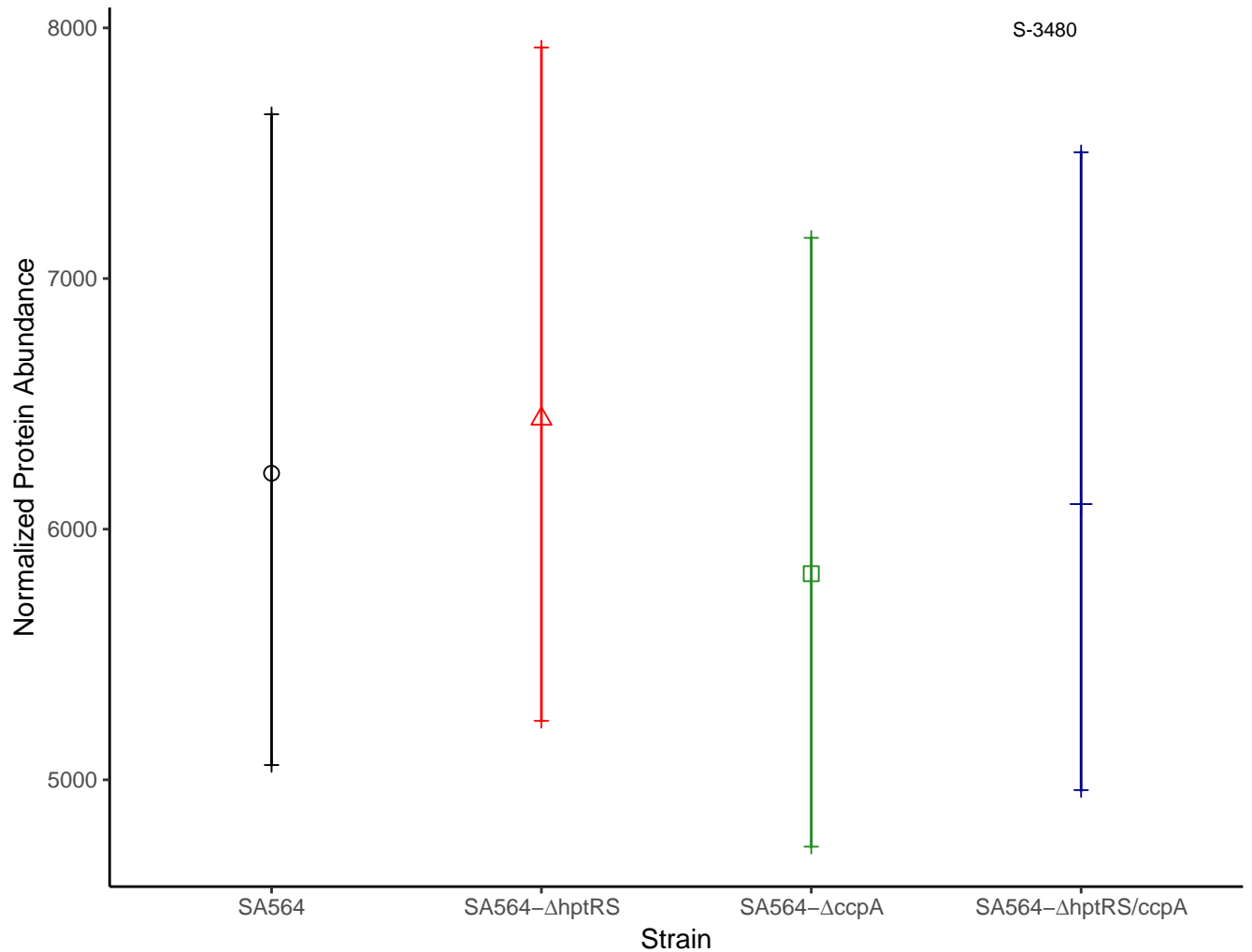
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1425\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1462\_STAAM

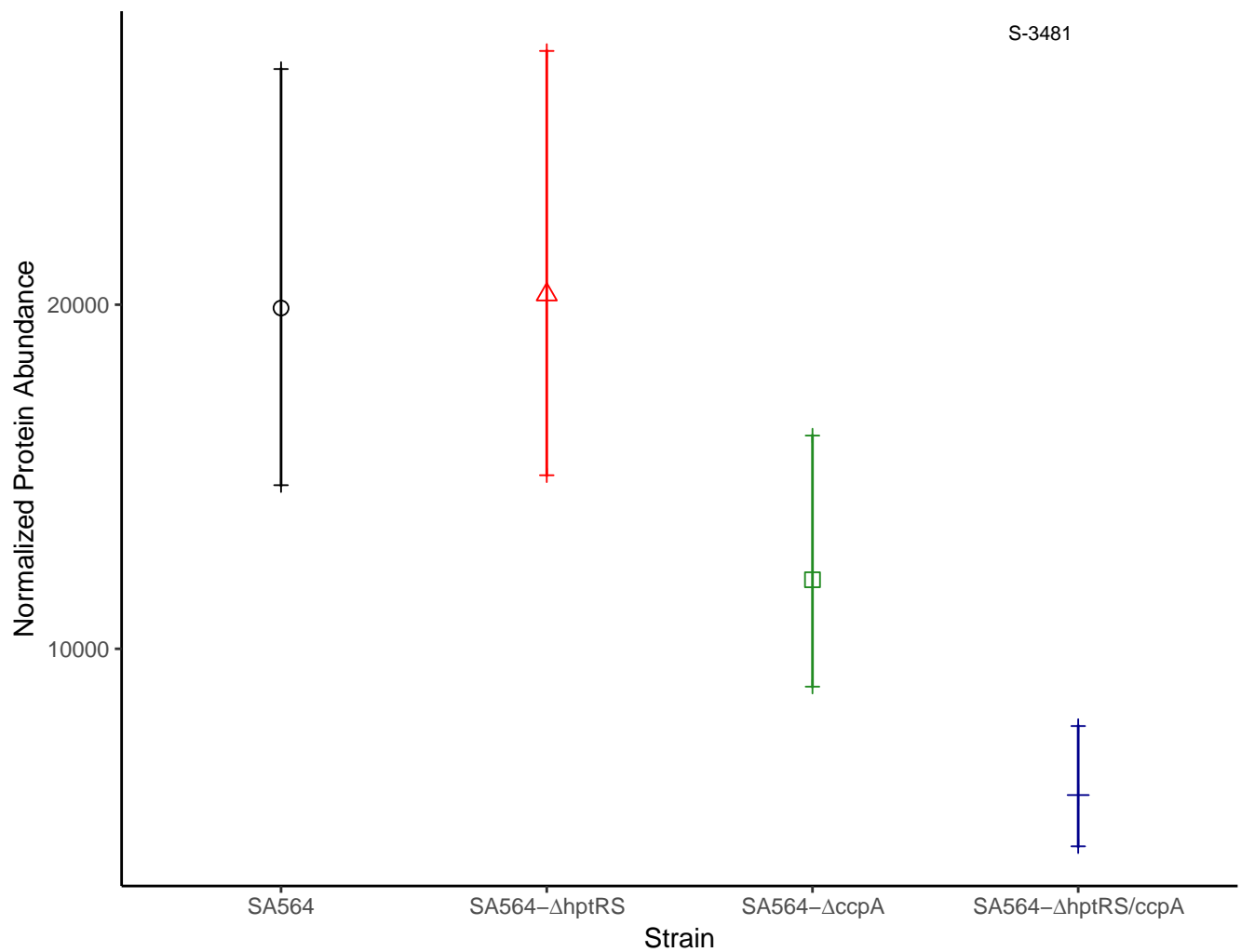


- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA



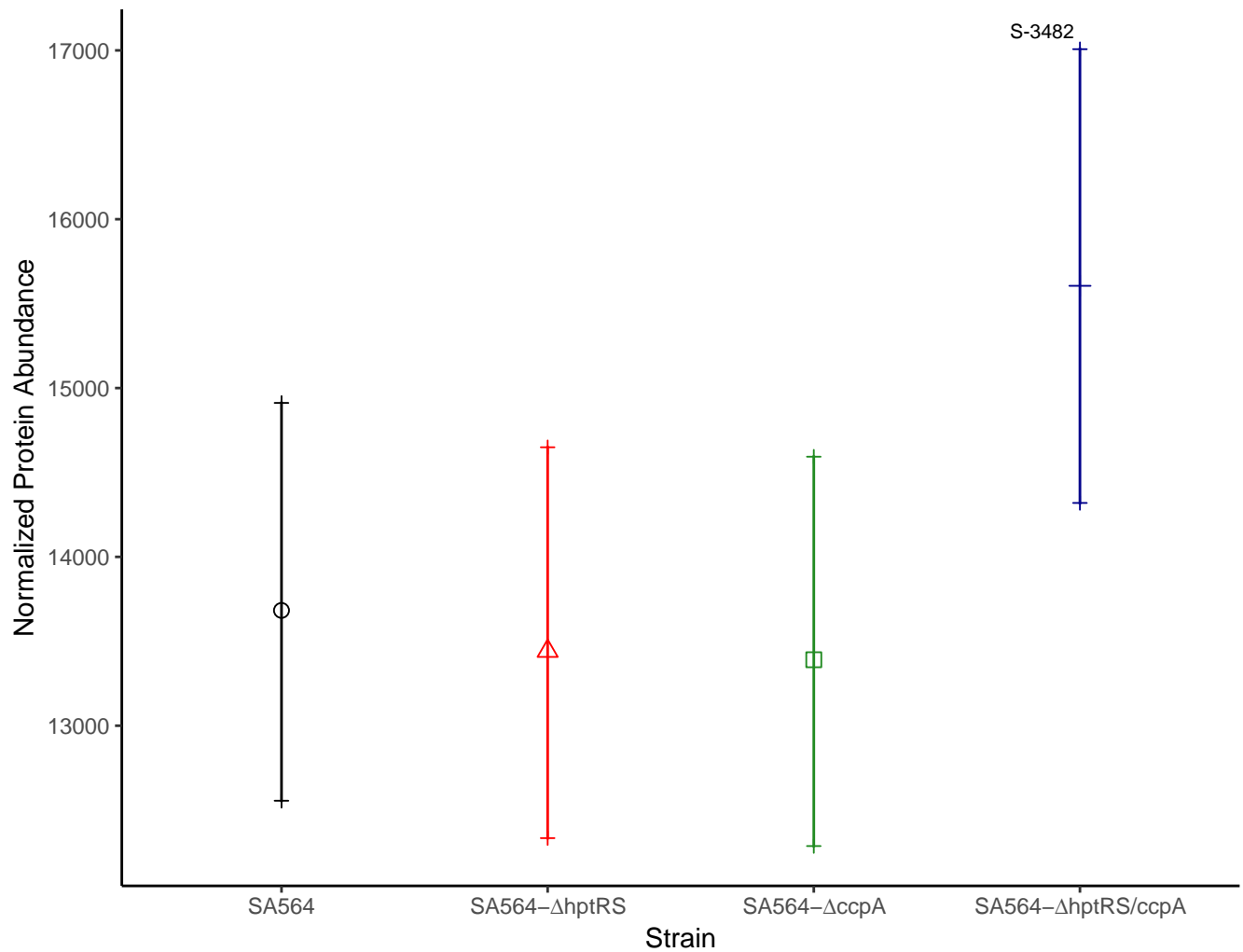
# Y1514\_STAAM

S-3481



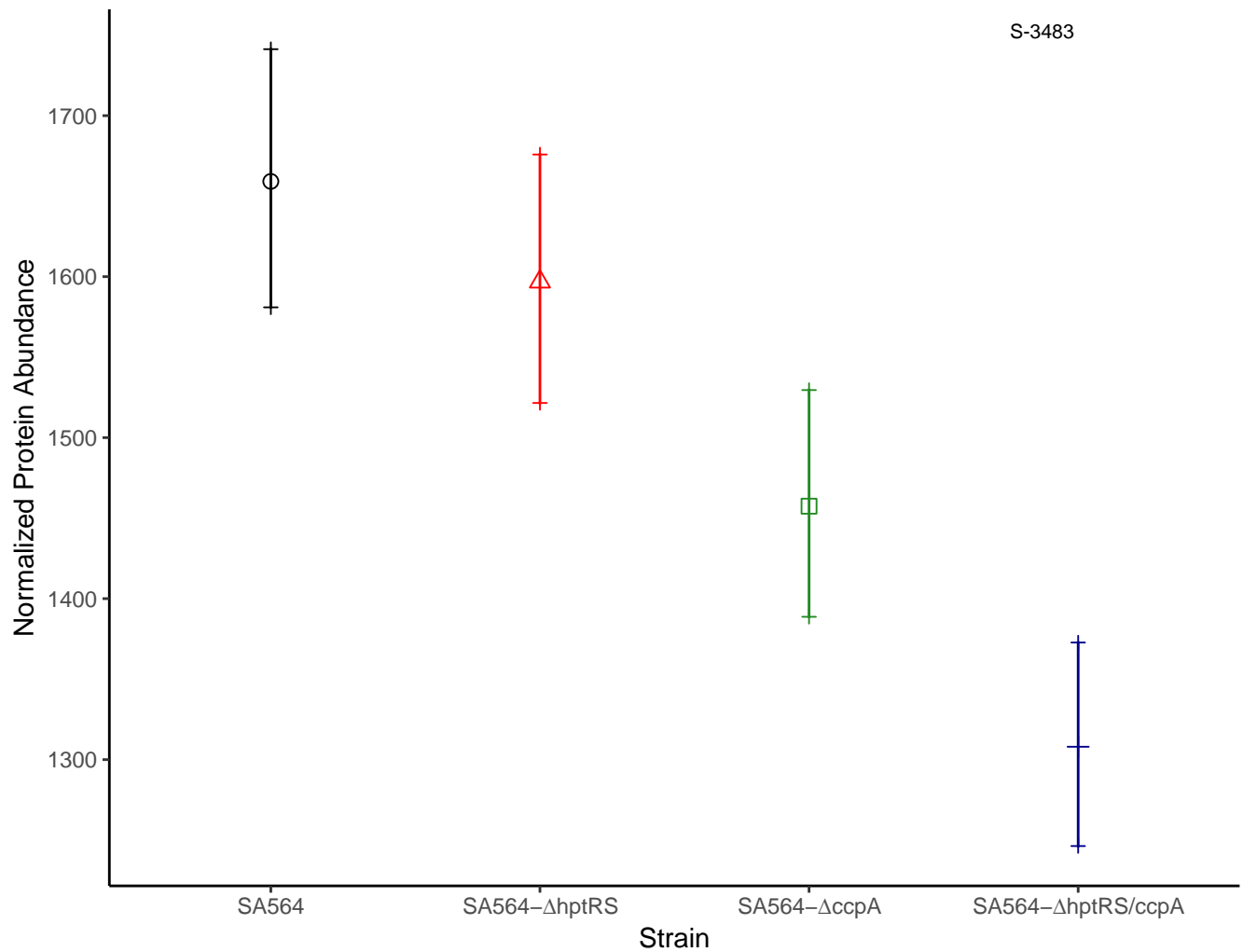
- ⊕ SA564
- △ SA564-ΔhptRS
- ⊞ SA564-ΔccpA
- + SA564-ΔhptRS/ccpA

# Y1573\_STAAM



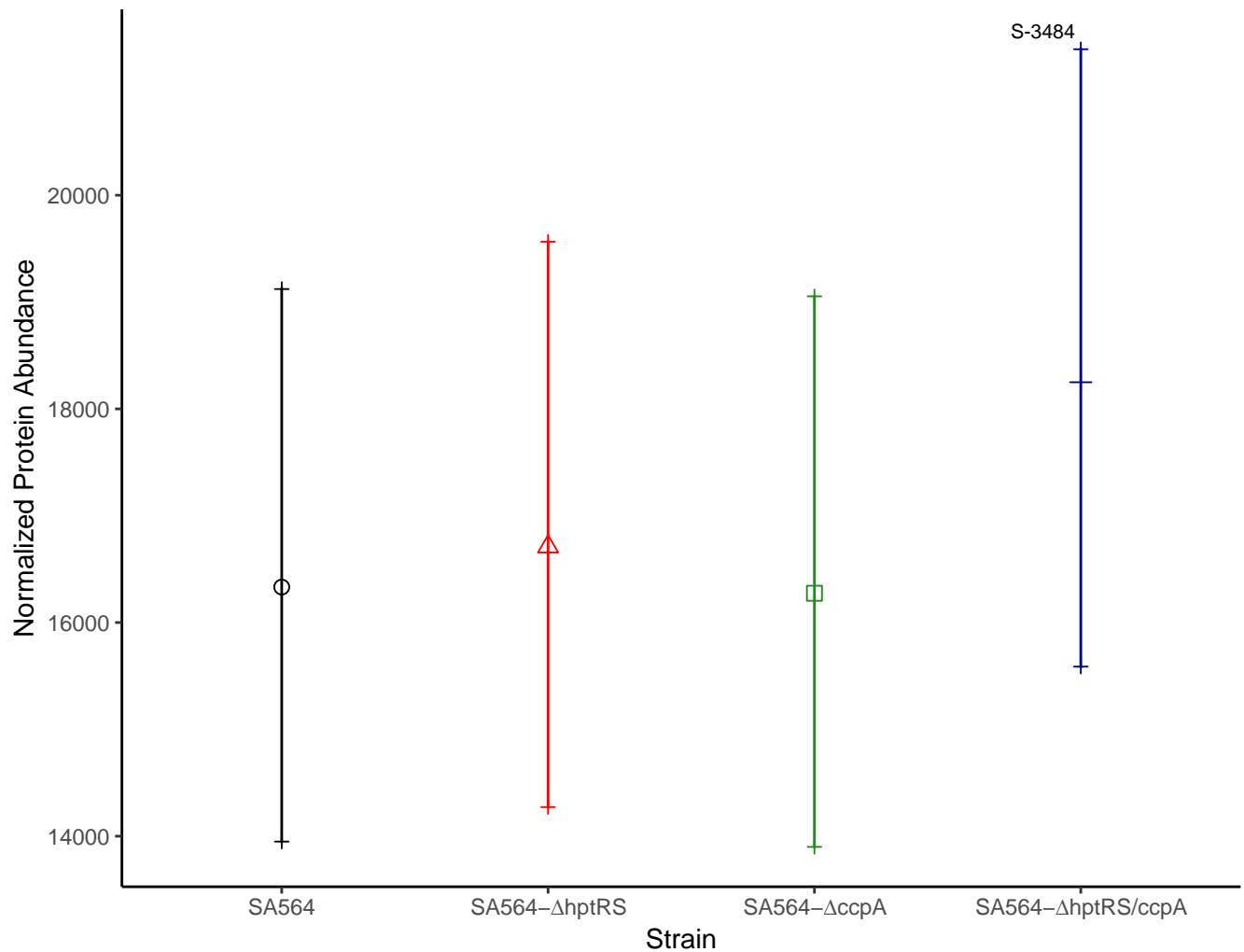
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1605\_STAAM



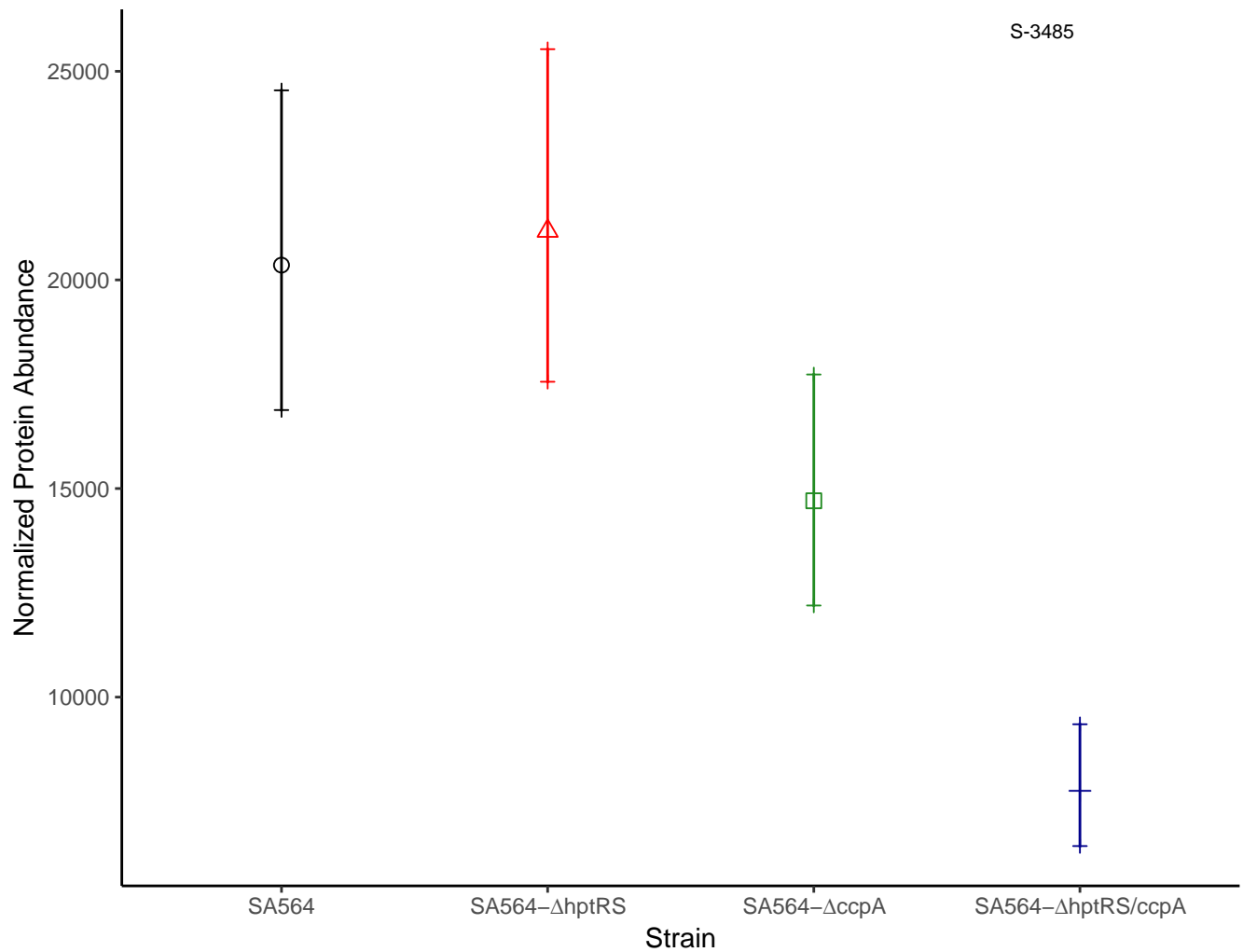
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1617\_STAAM



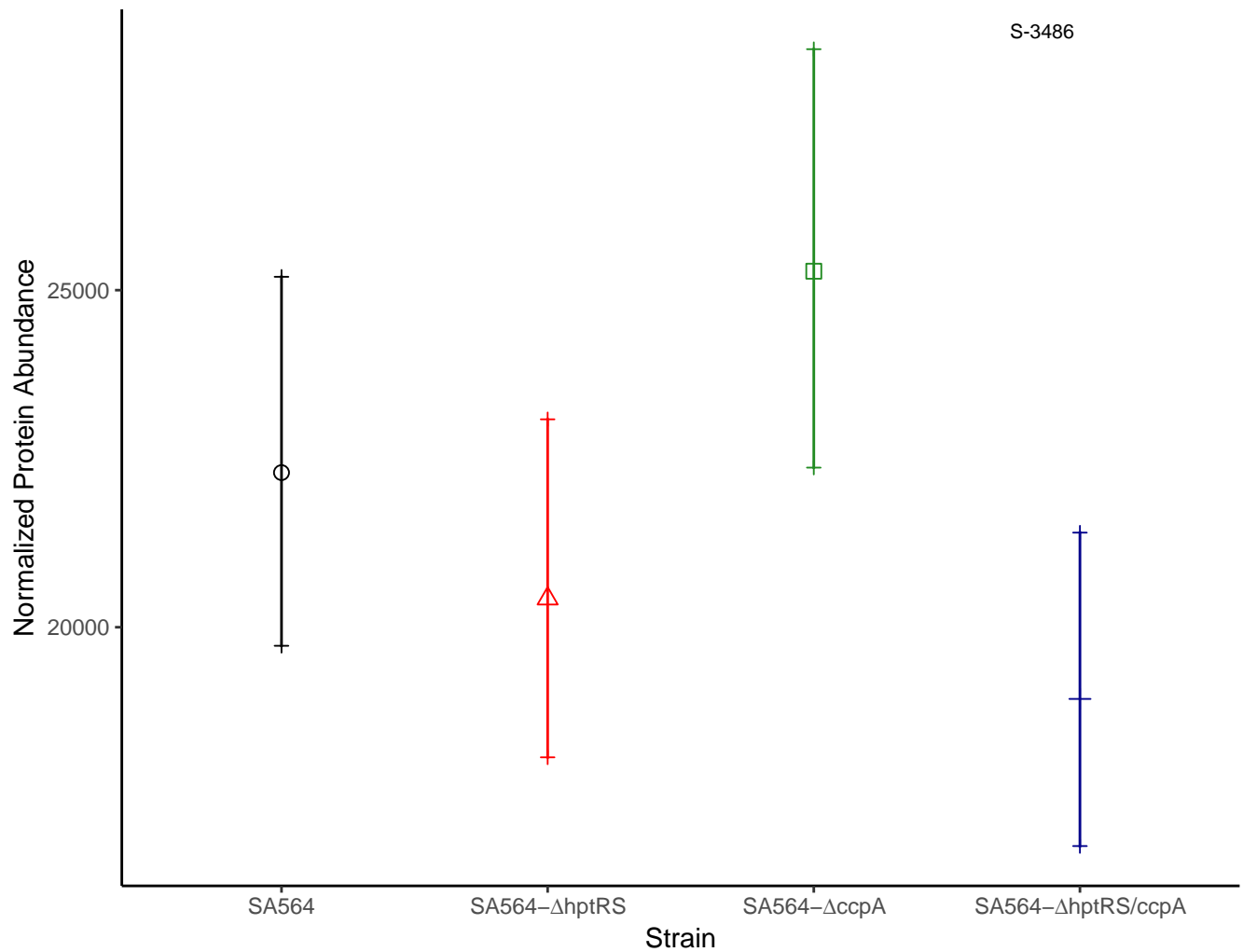
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1625\_STAAM



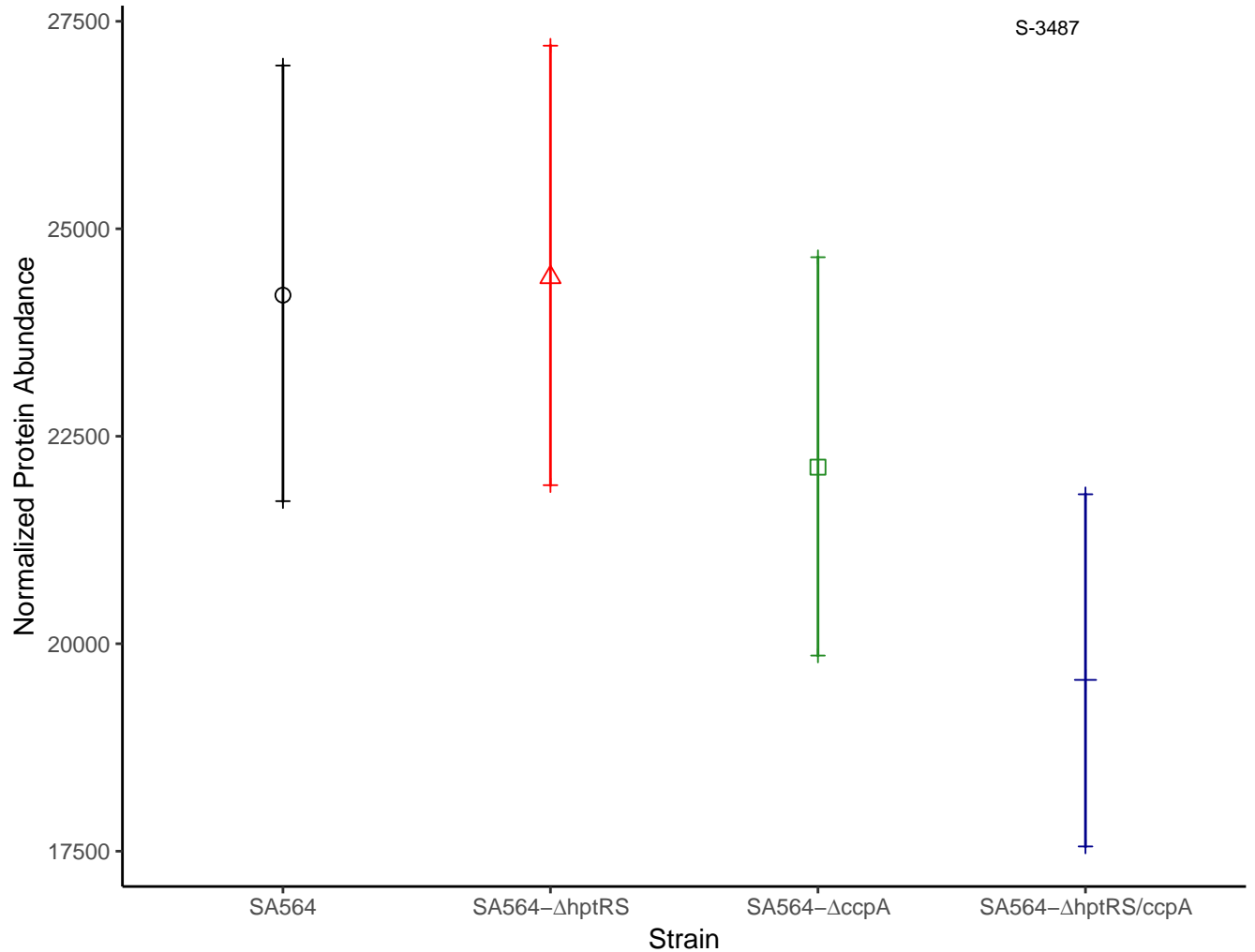
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1710\_STAAM



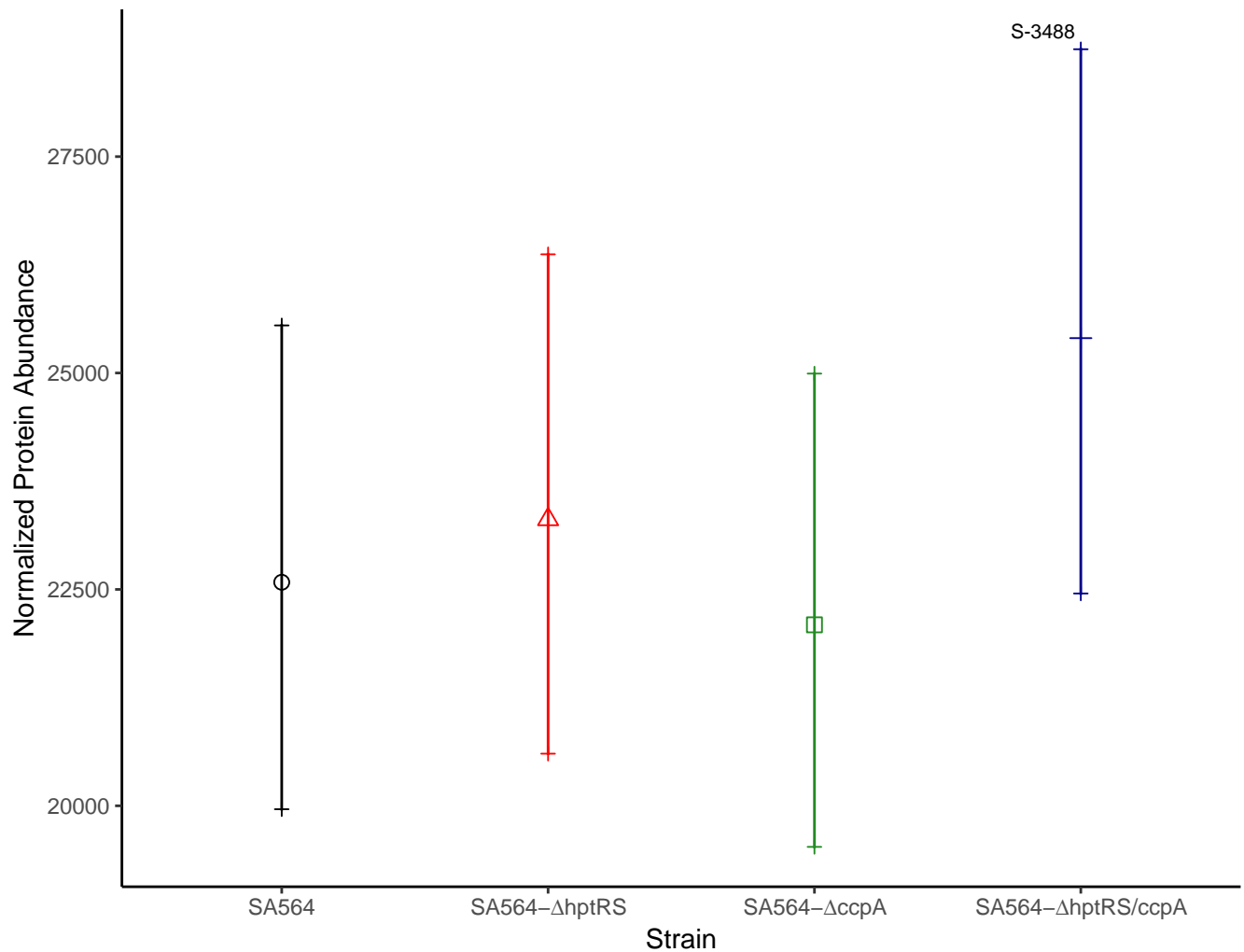
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y1739\_STAAM



- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

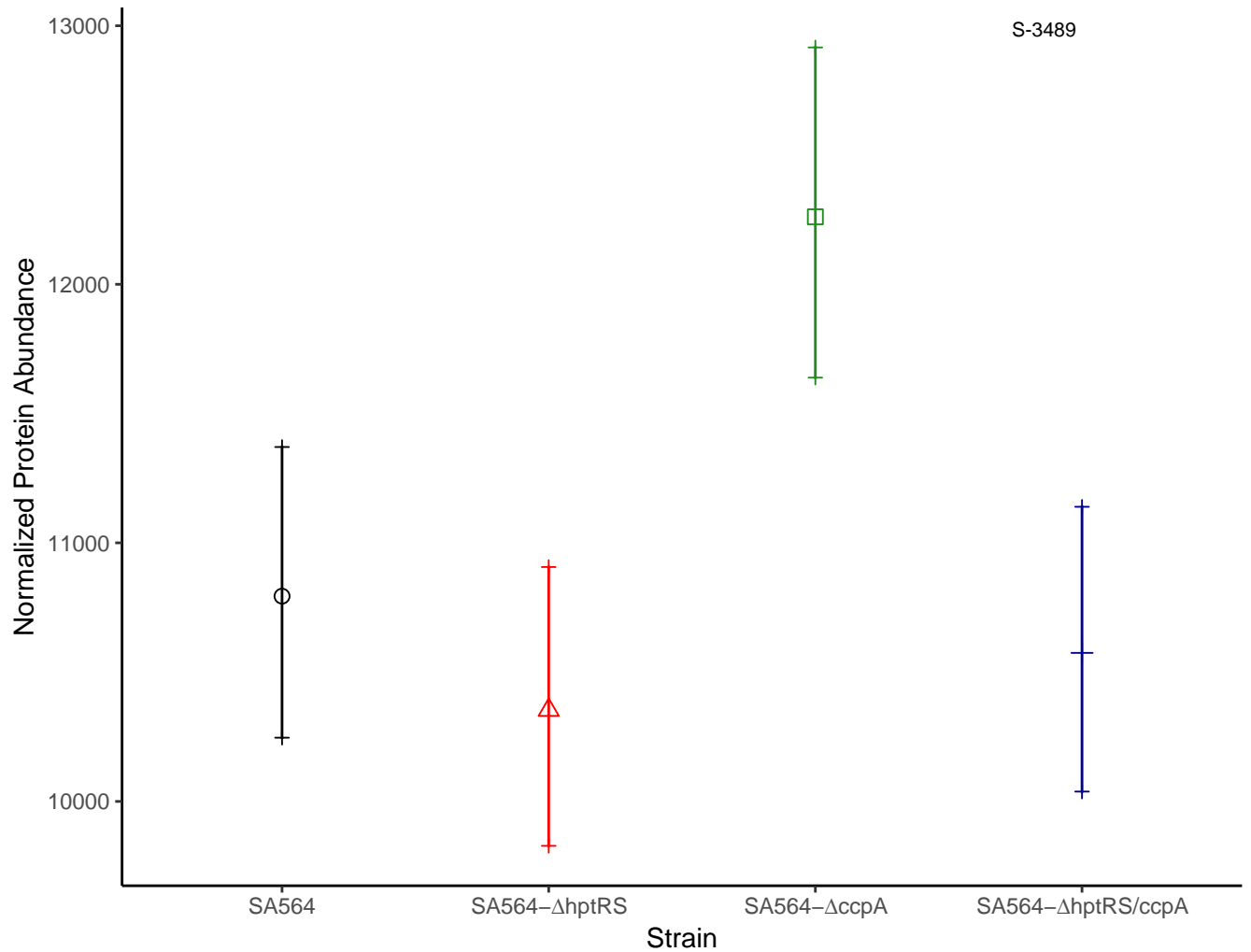
# Y1845\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

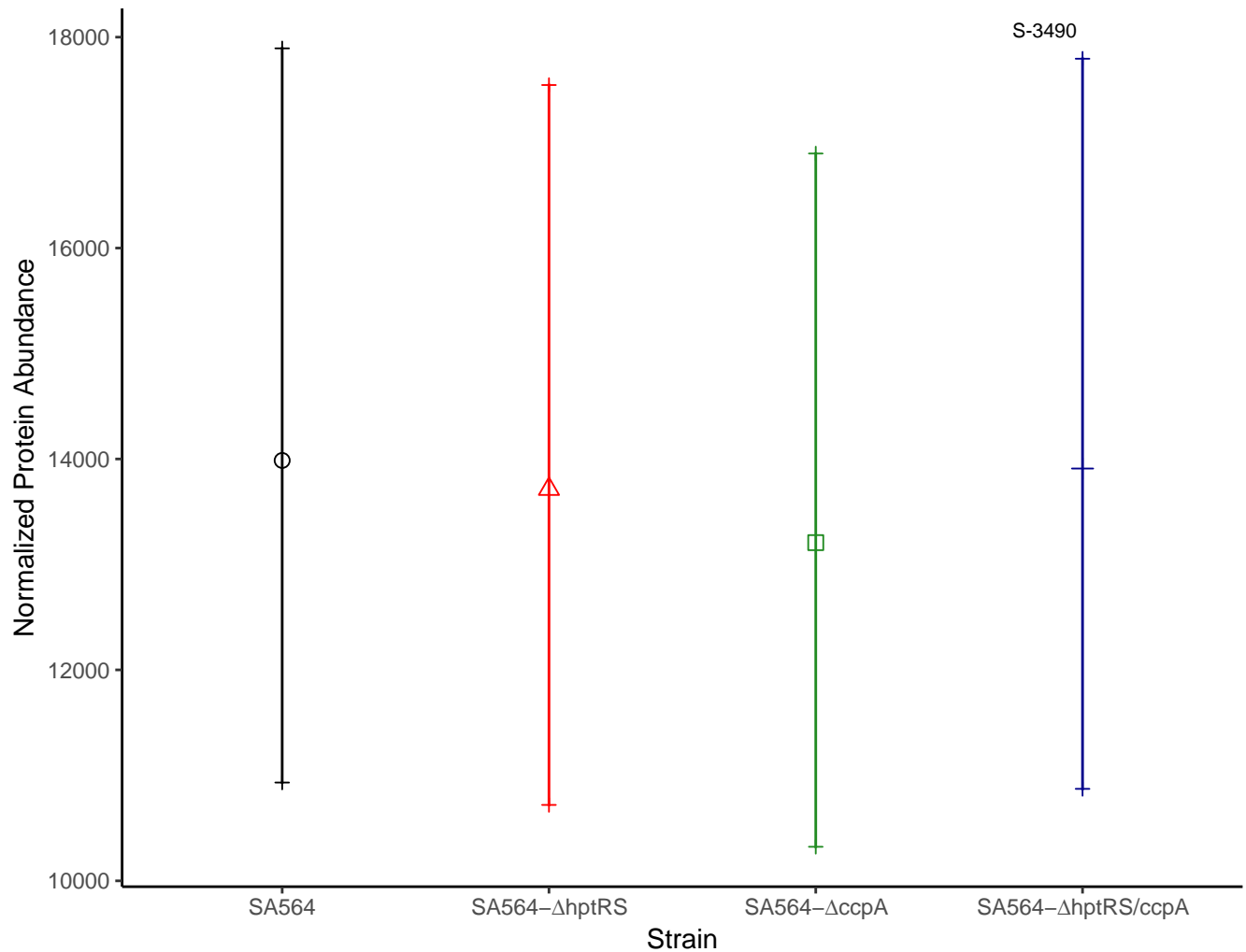


# Y1866\_STAAM



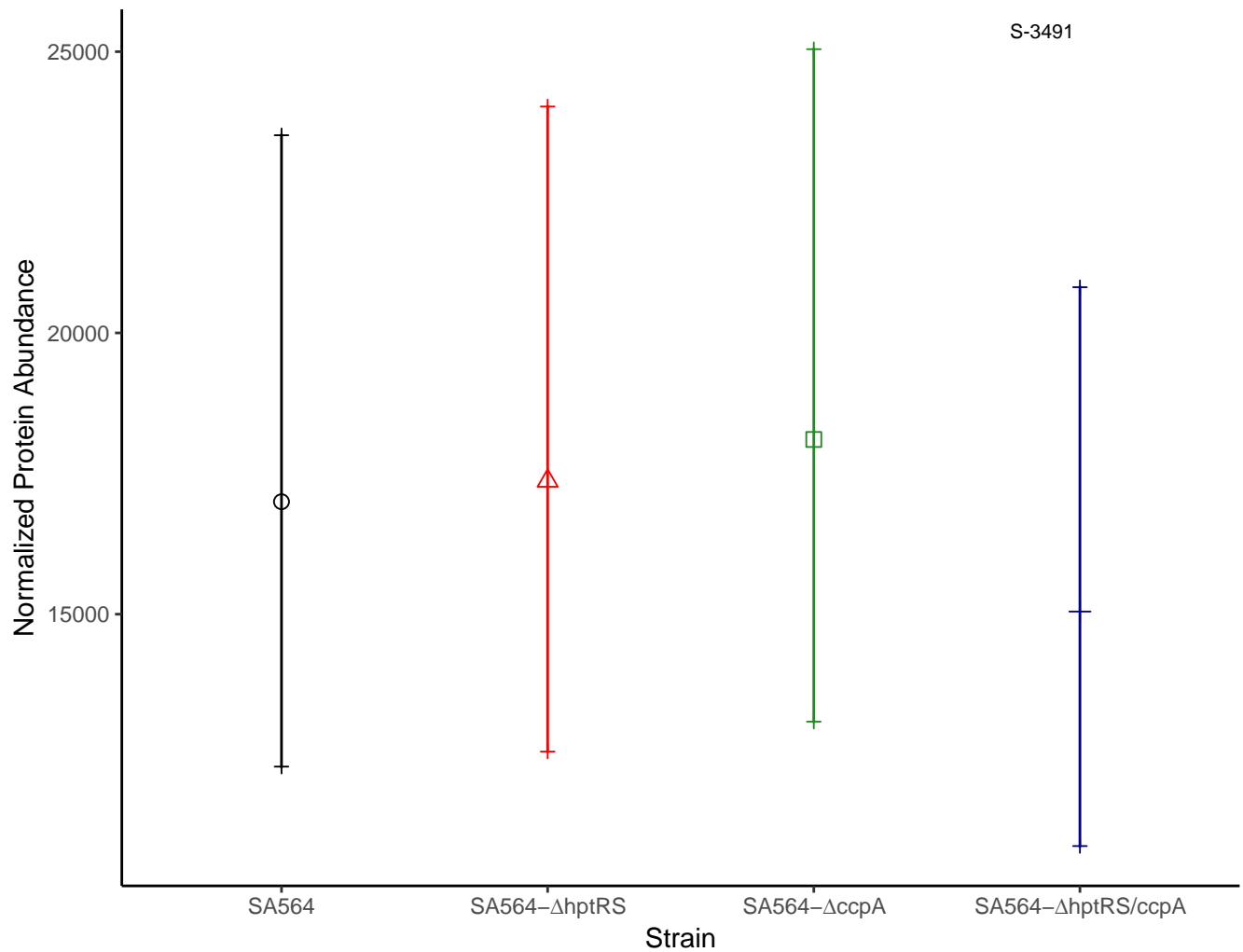
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1880\_STAAM



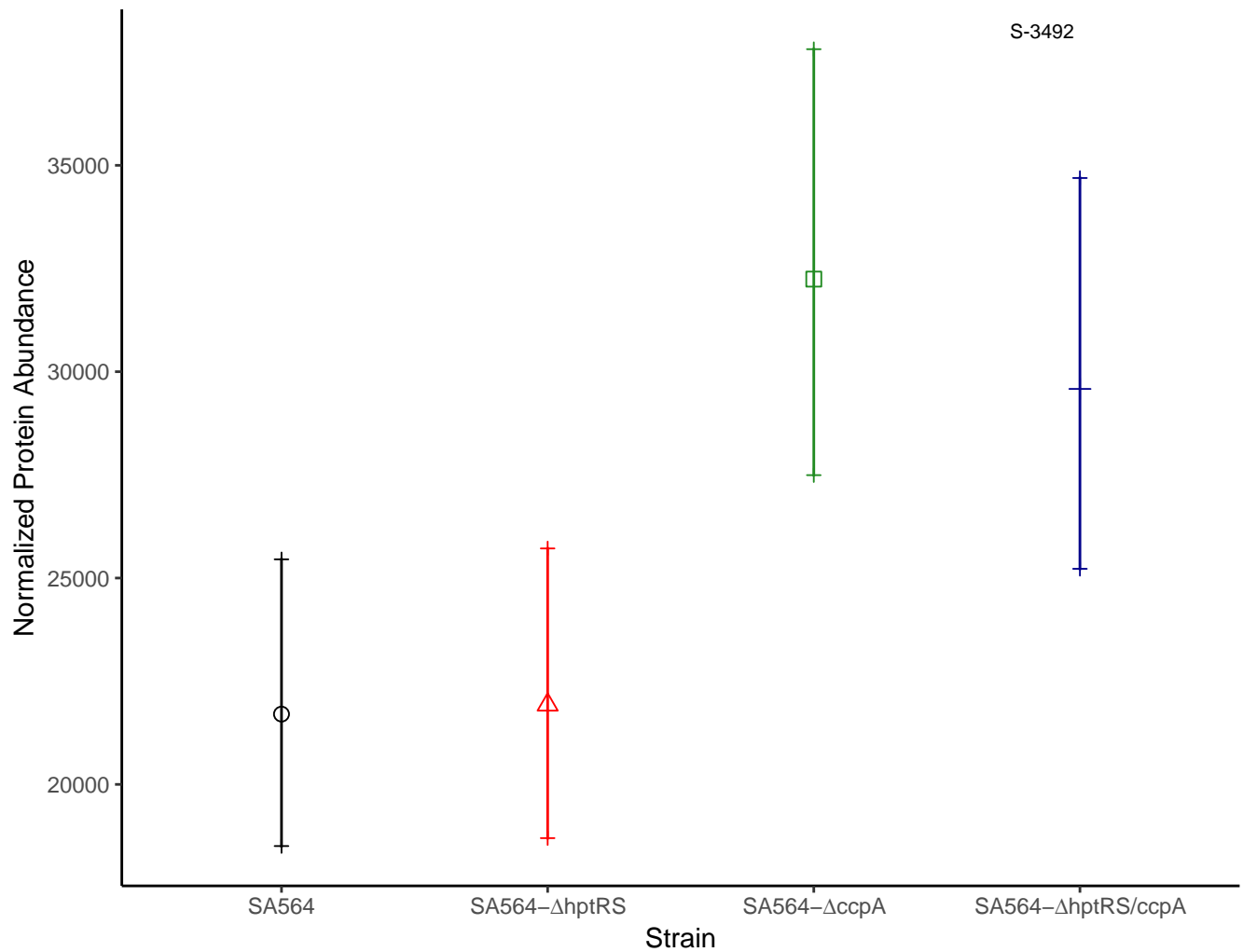
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y1921\_STAAM



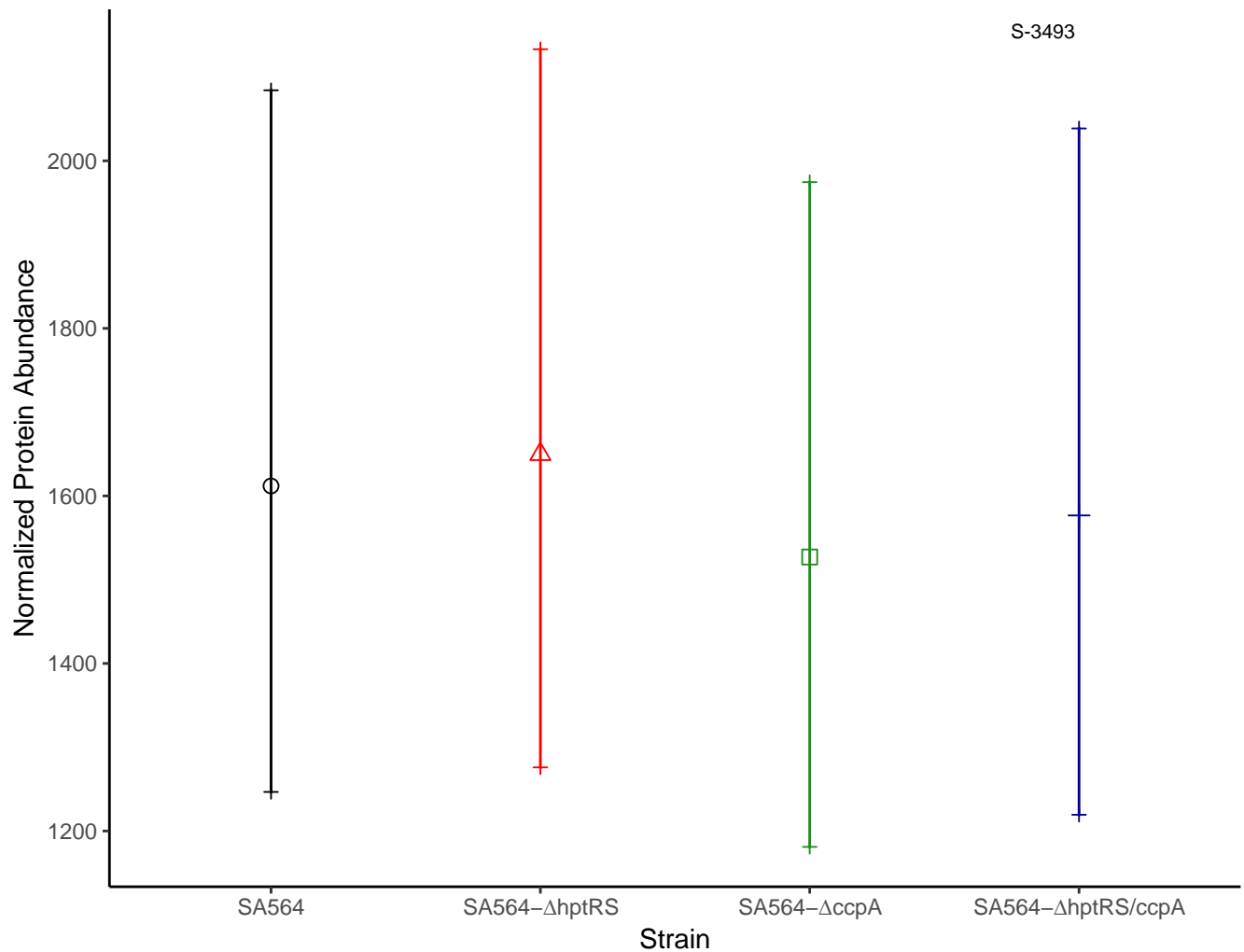
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2173\_STAAM



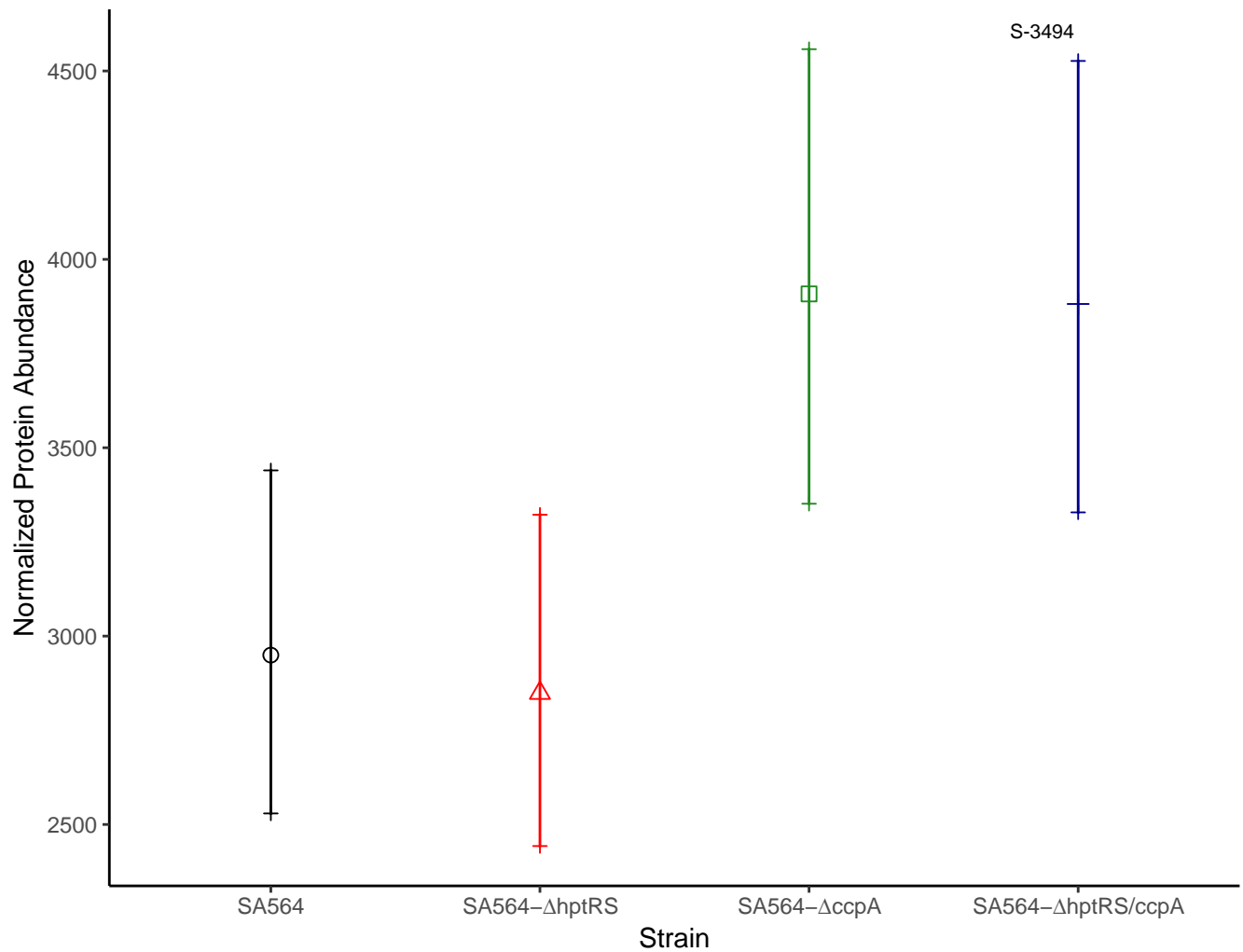
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2204\_STAAM



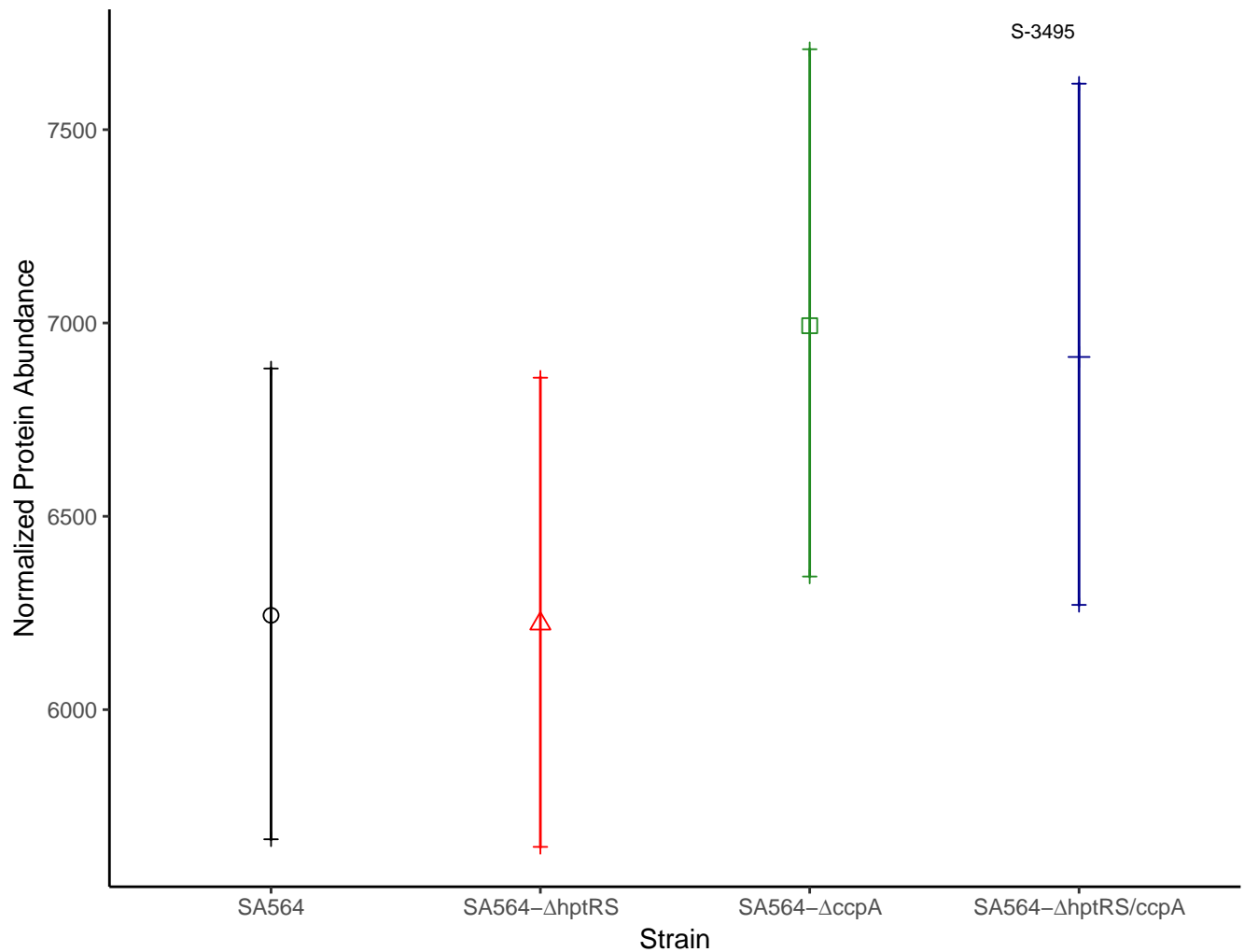
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2265\_STAAM



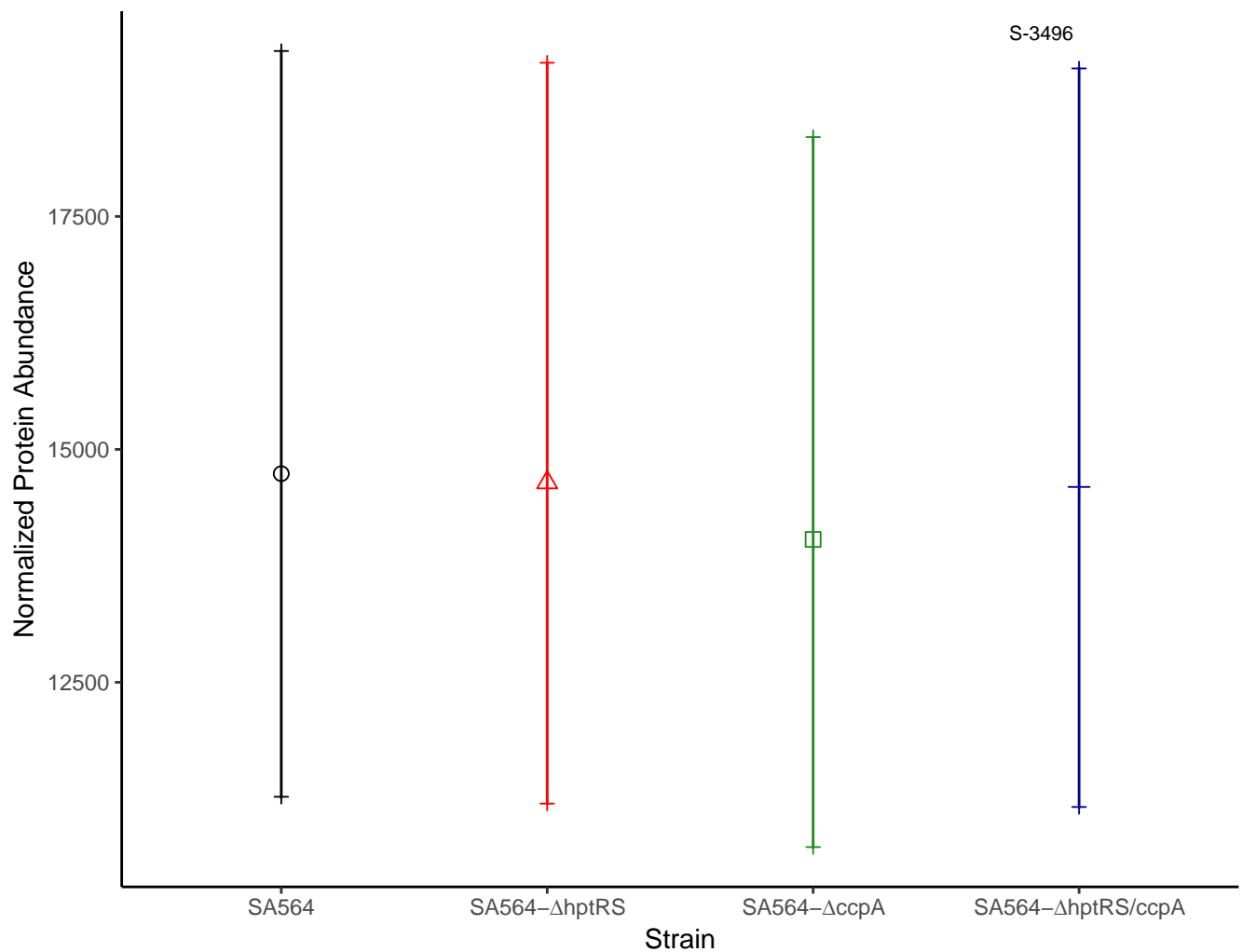
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2305\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

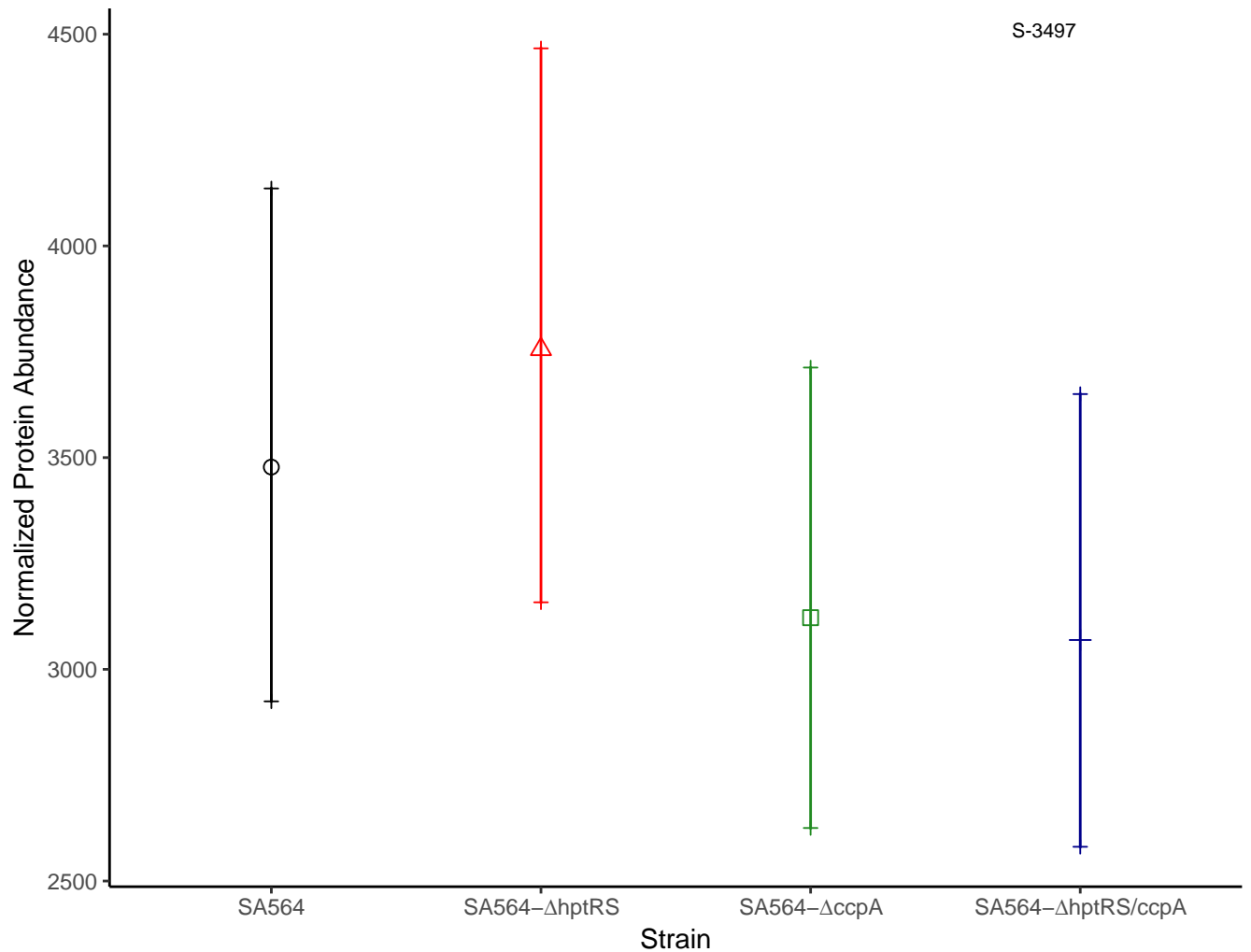
# Y2363\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

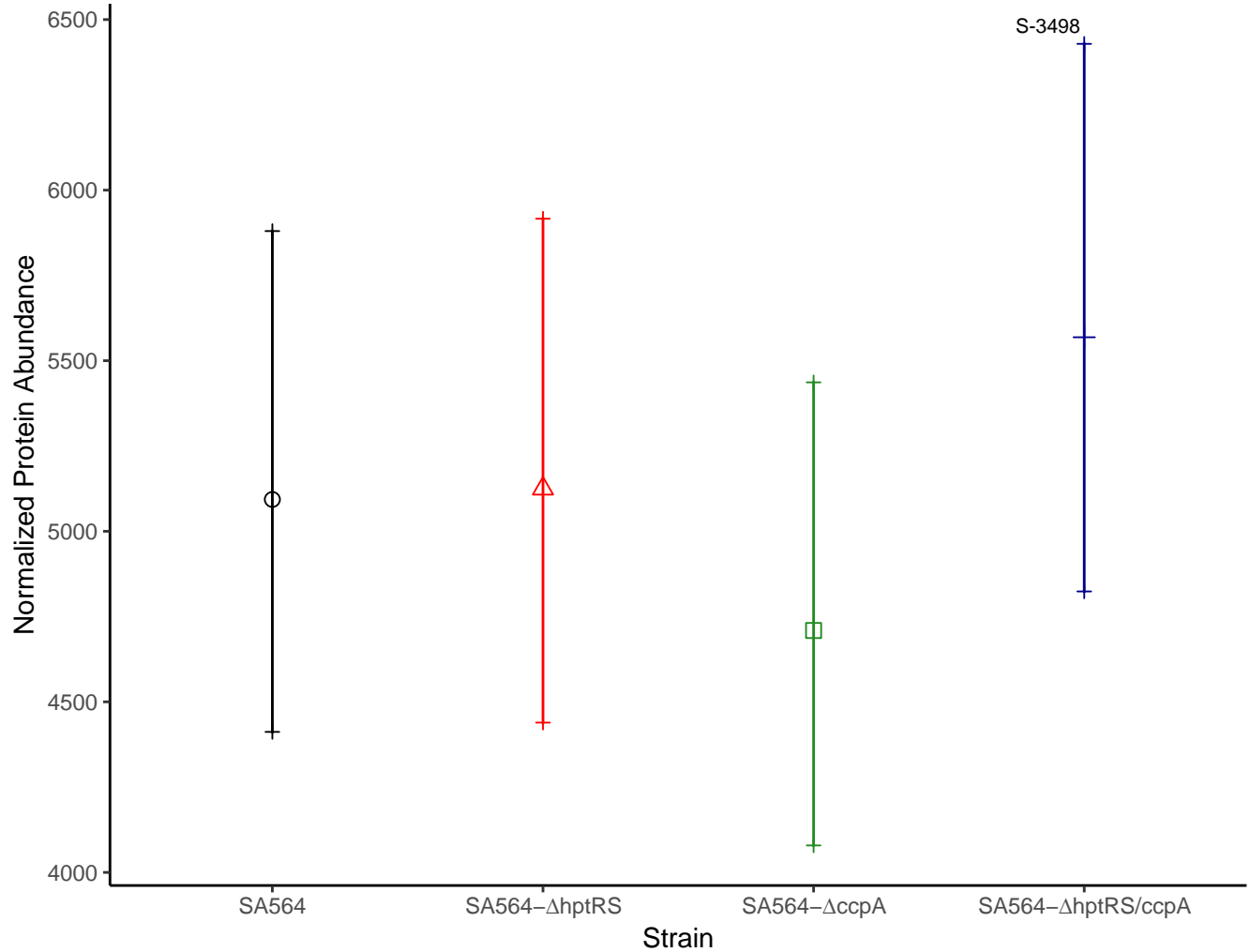


# Y2368\_STAAM



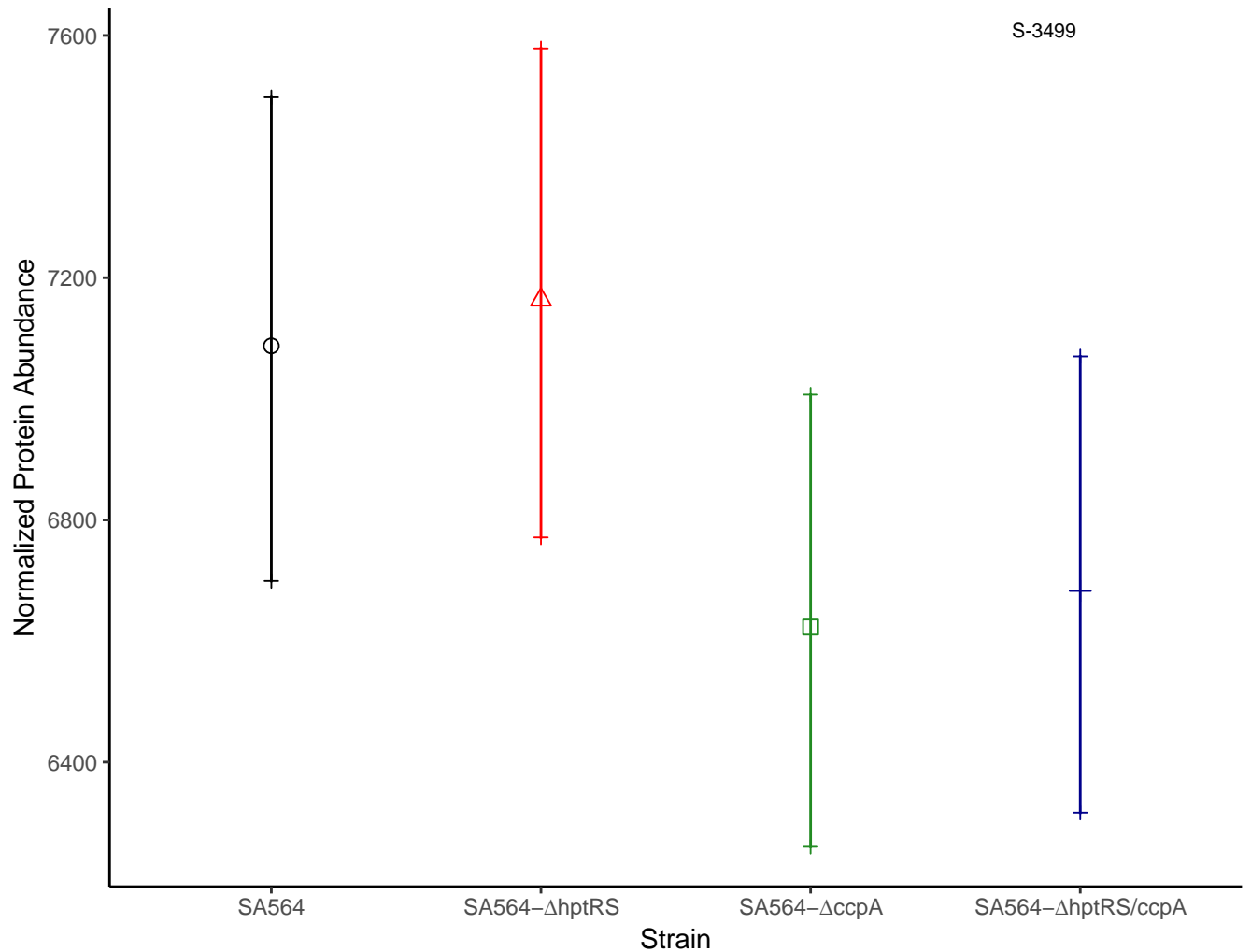
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2478\_STAAM



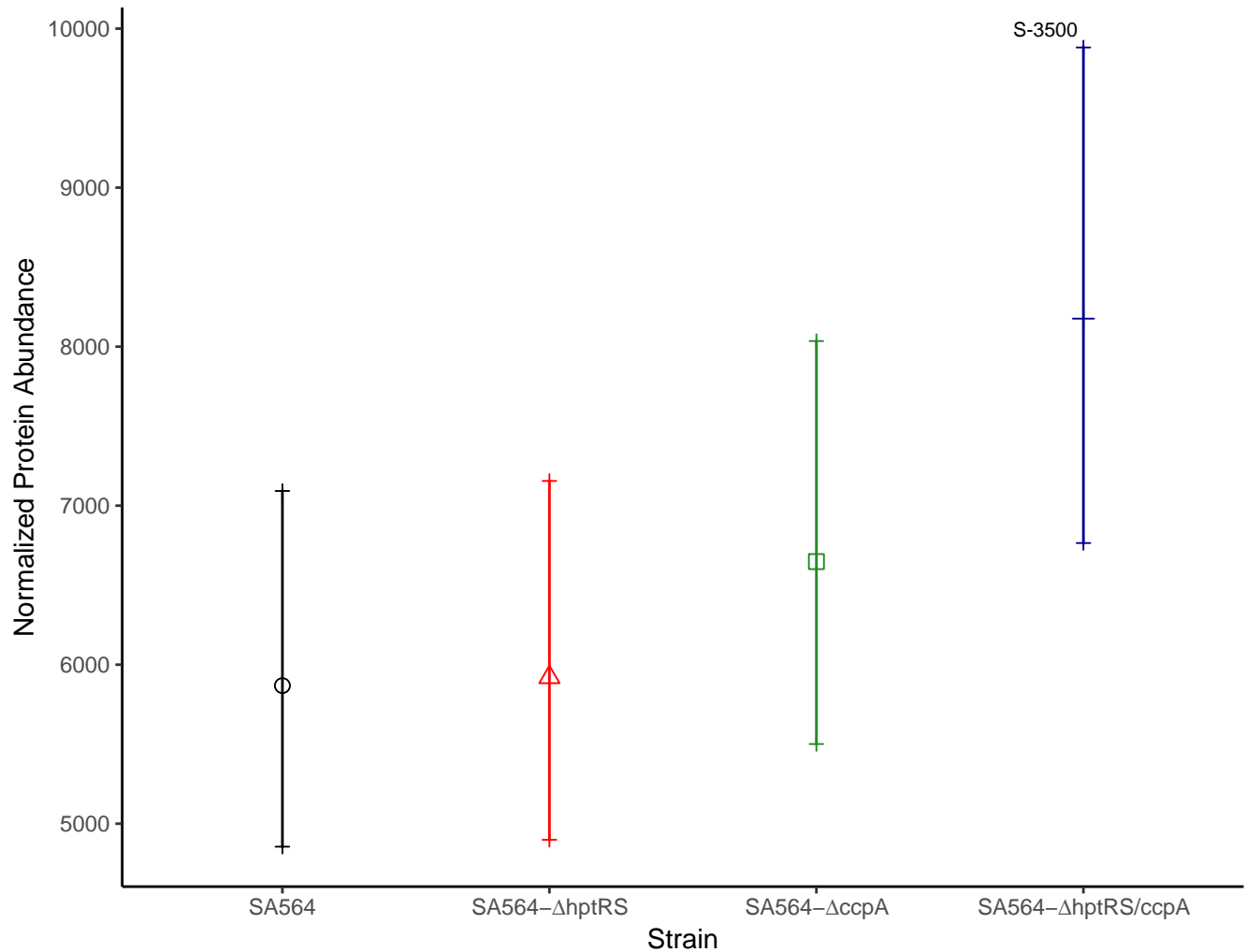
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2523\_STAAM



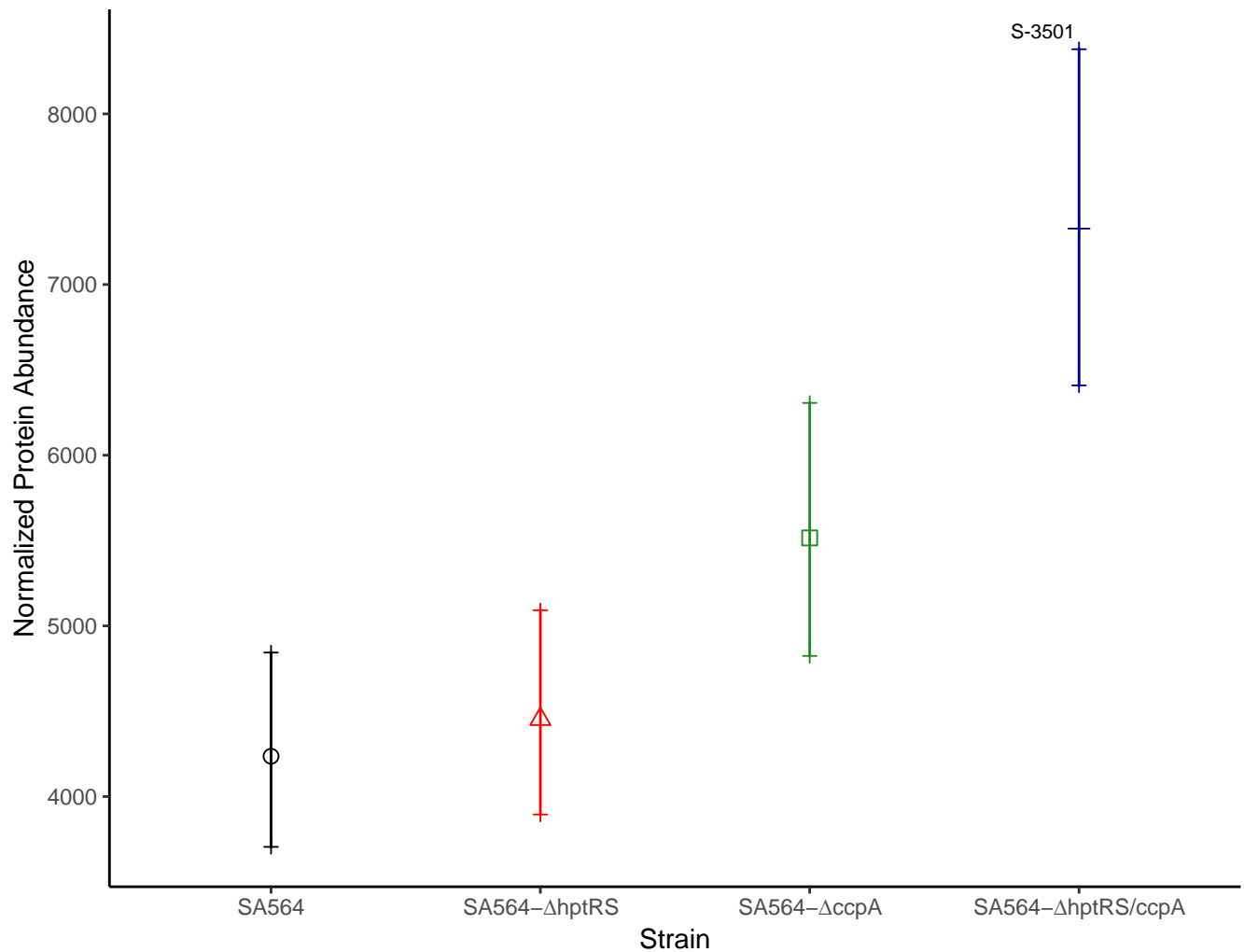
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2573\_STAAM



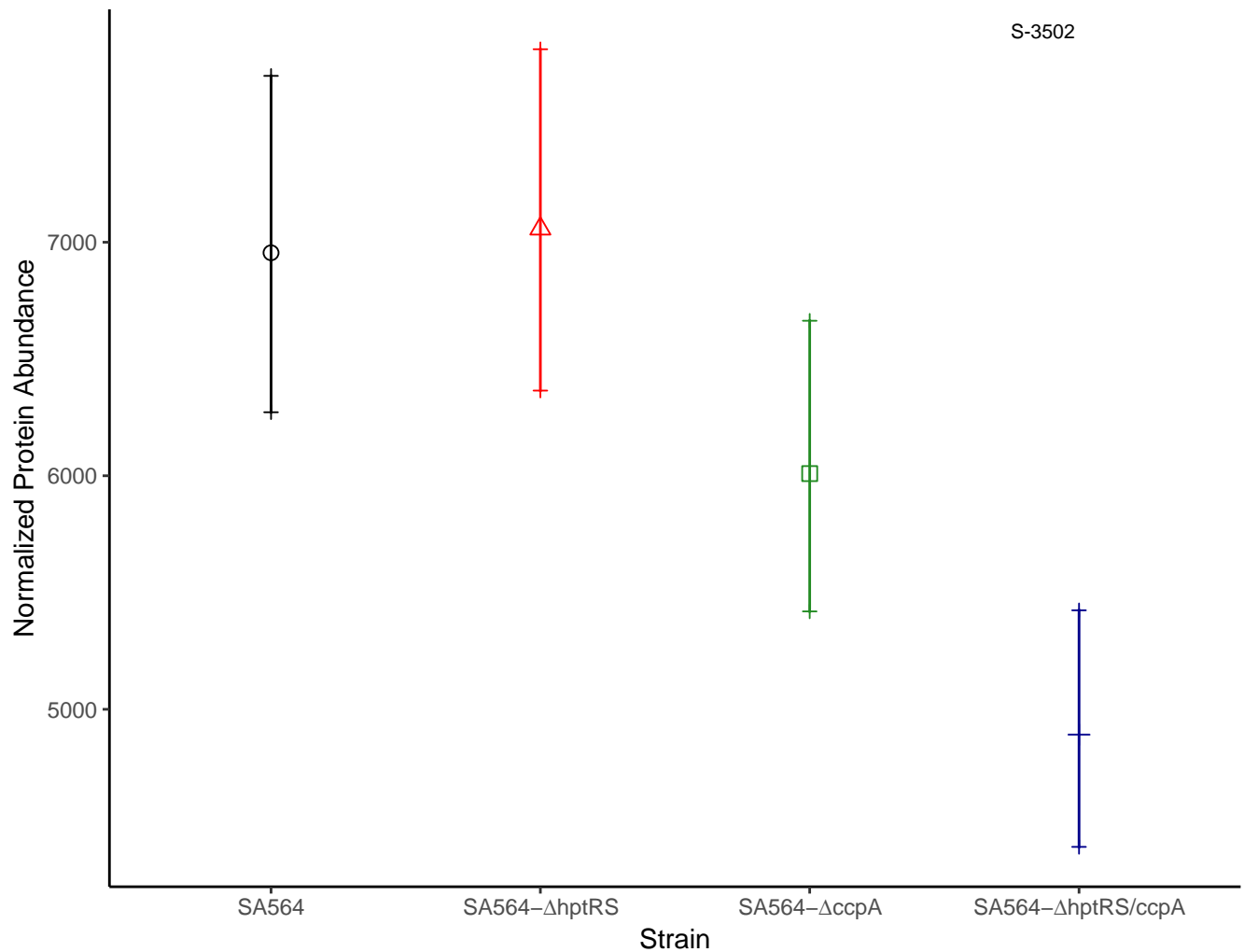
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y2578\_STAAM



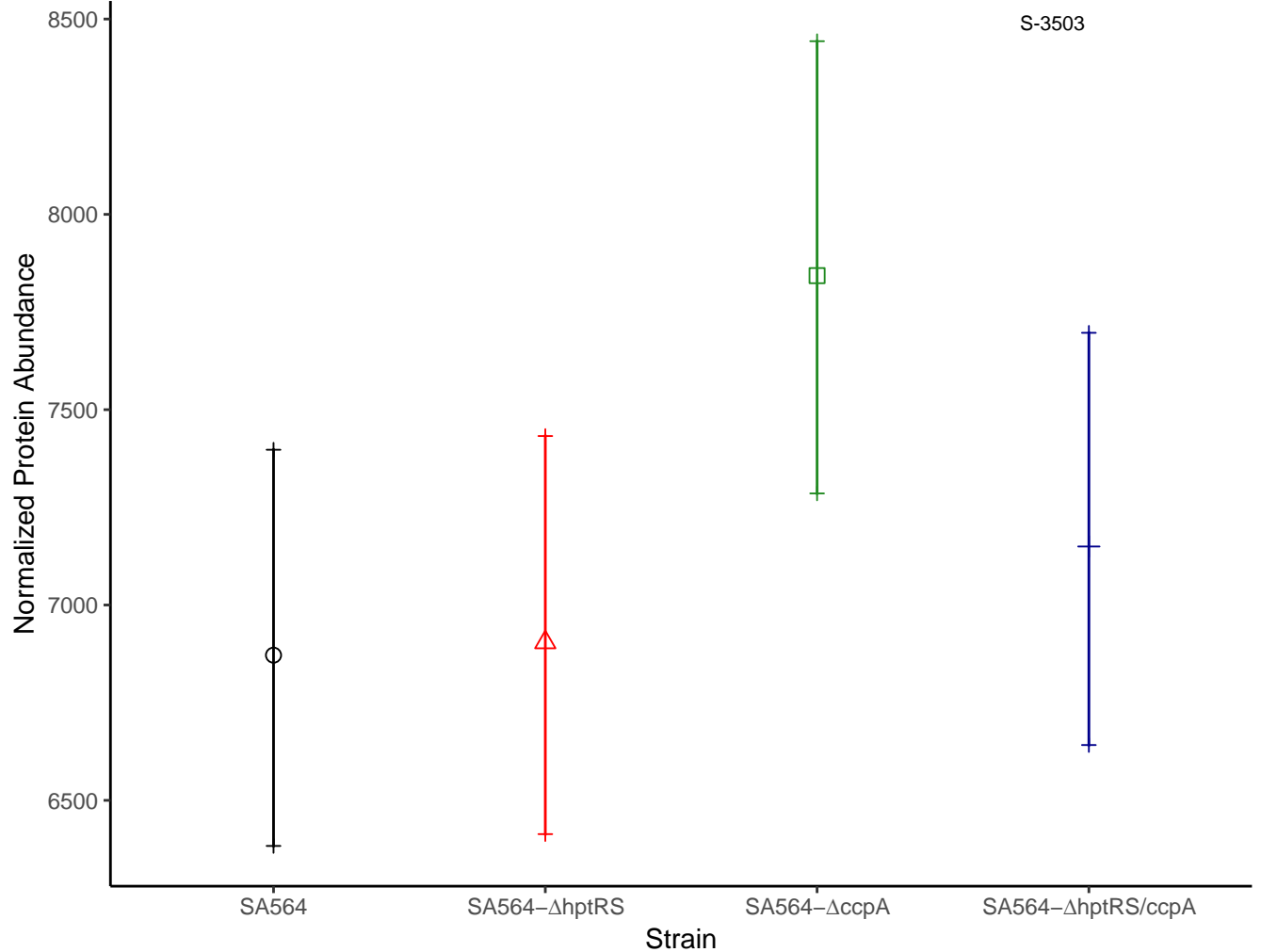
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y2581\_STAAM



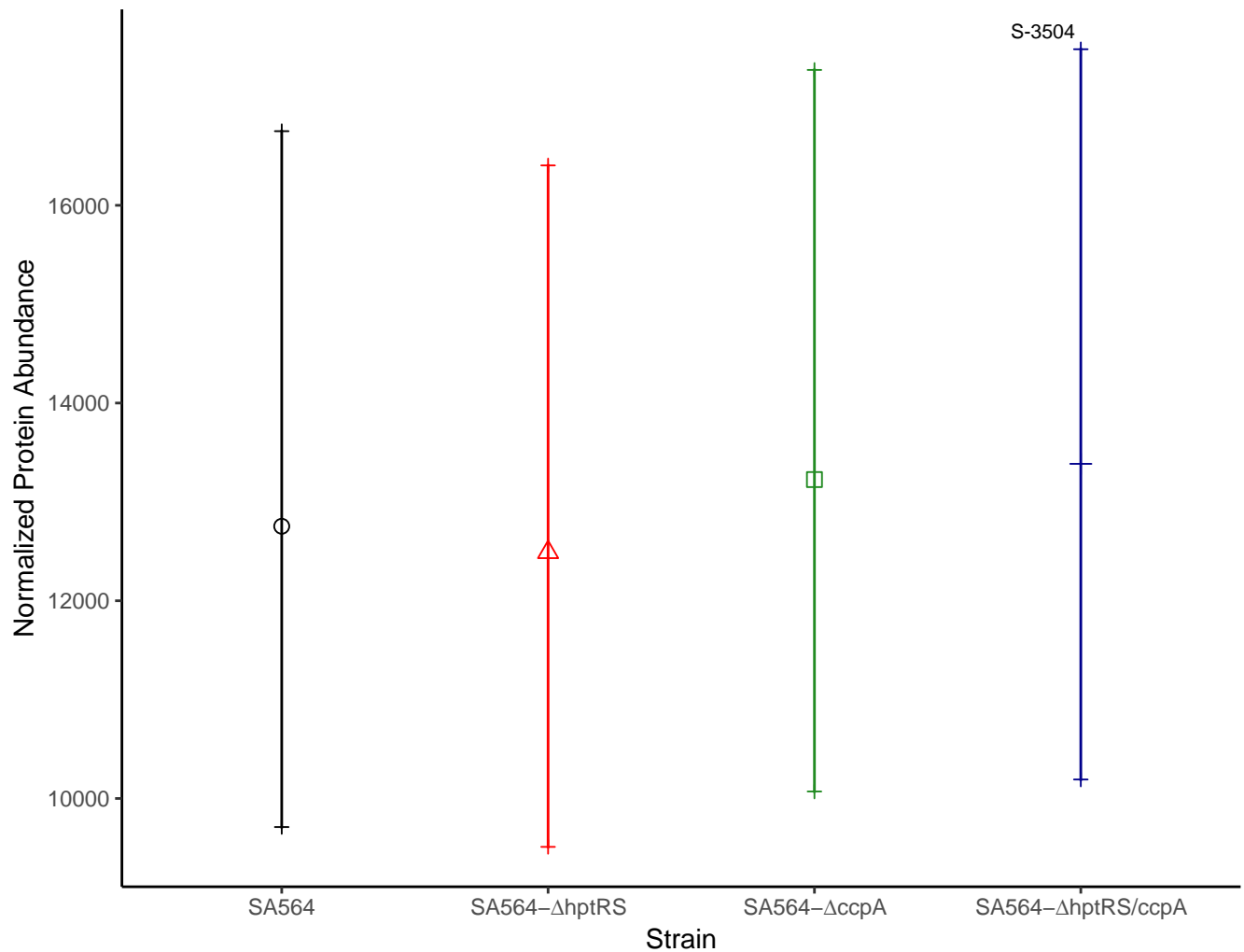
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- ⊕ SA564- $\Delta$ hptRS/ccpA

# Y2627\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

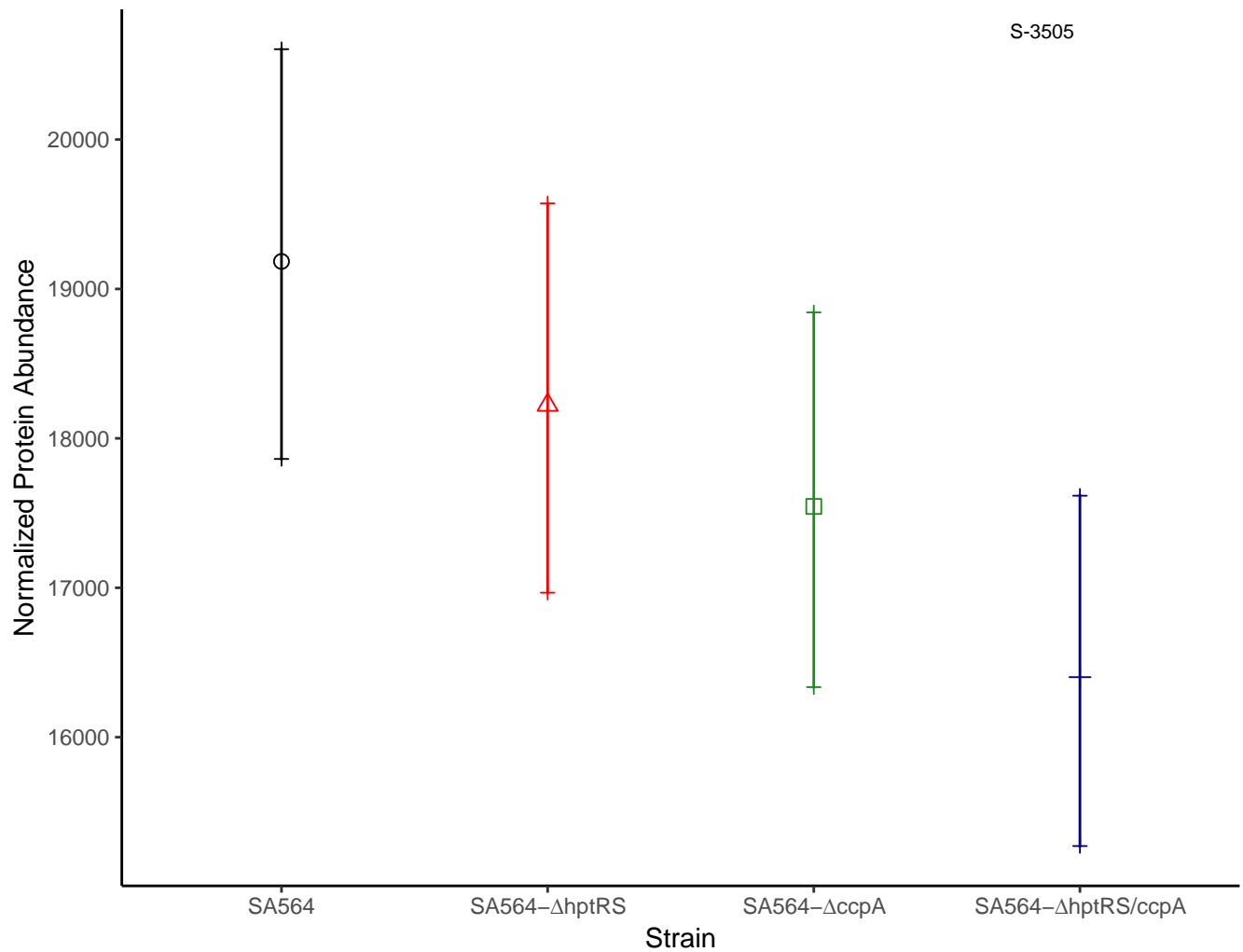
# Y2687\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

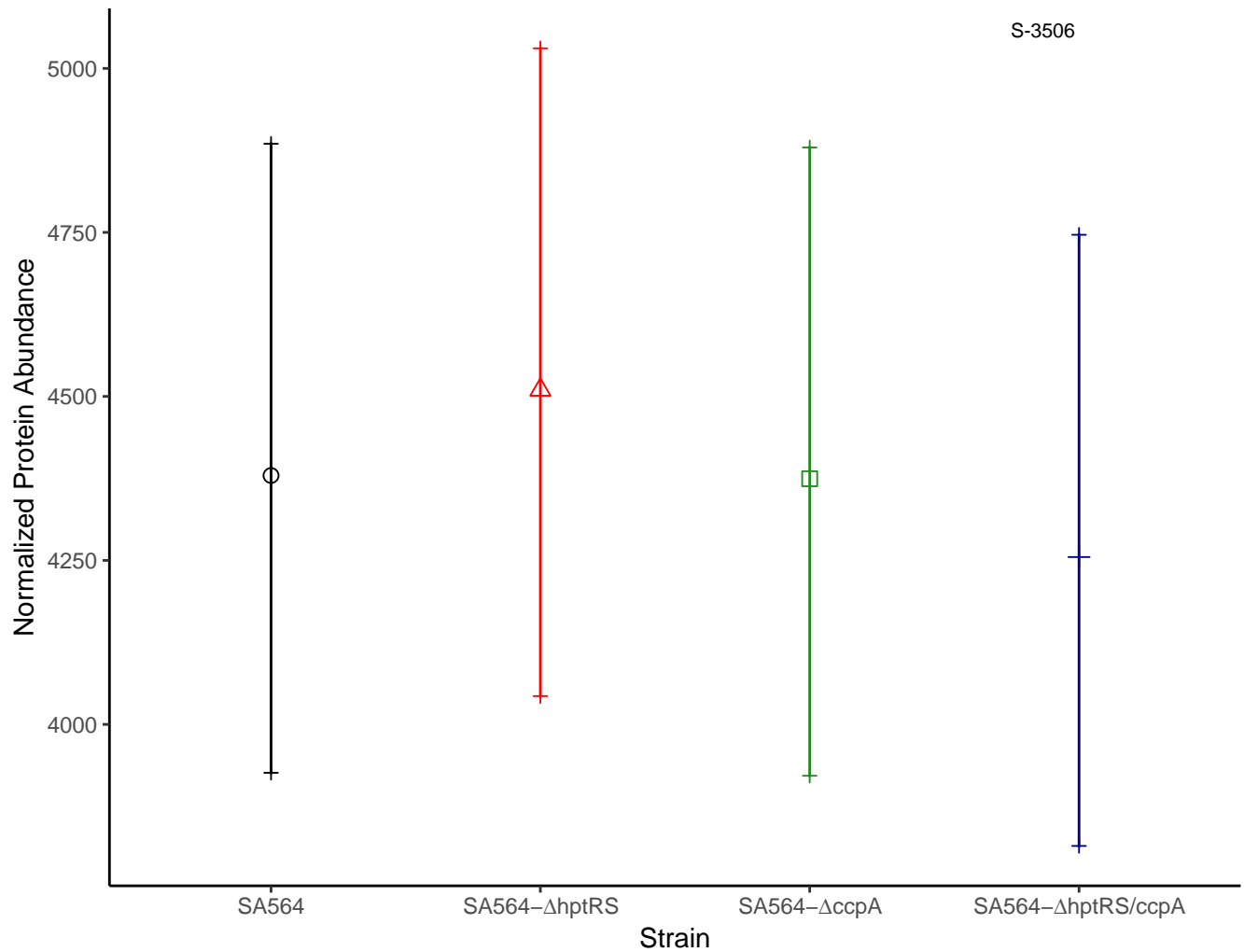


# Y2689\_STAAM



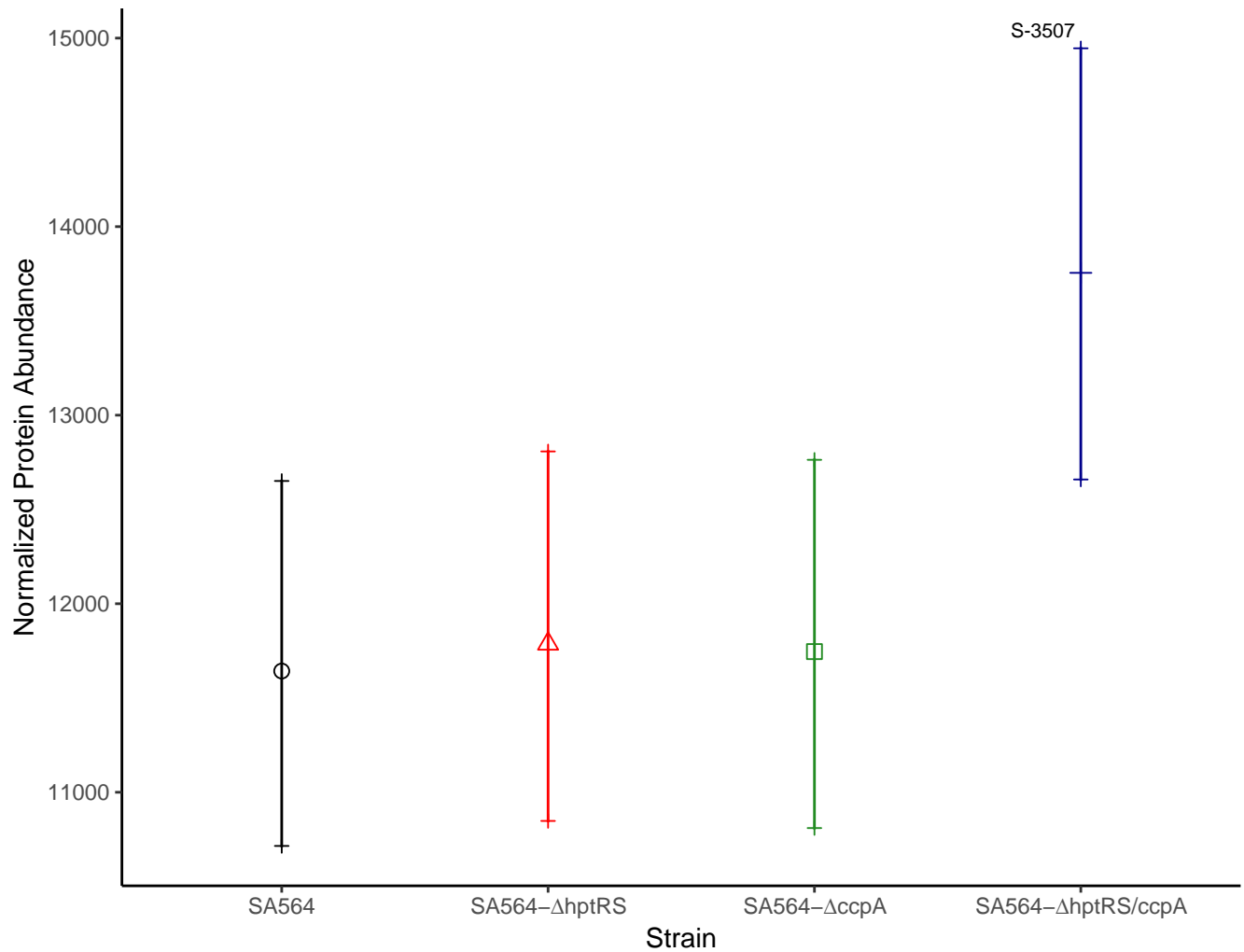
- SA564
- SA564- $\Delta$ hptRS
- SA564- $\Delta$ ccpA
- SA564- $\Delta$ hptRS/ccpA

# Y385\_STAAM



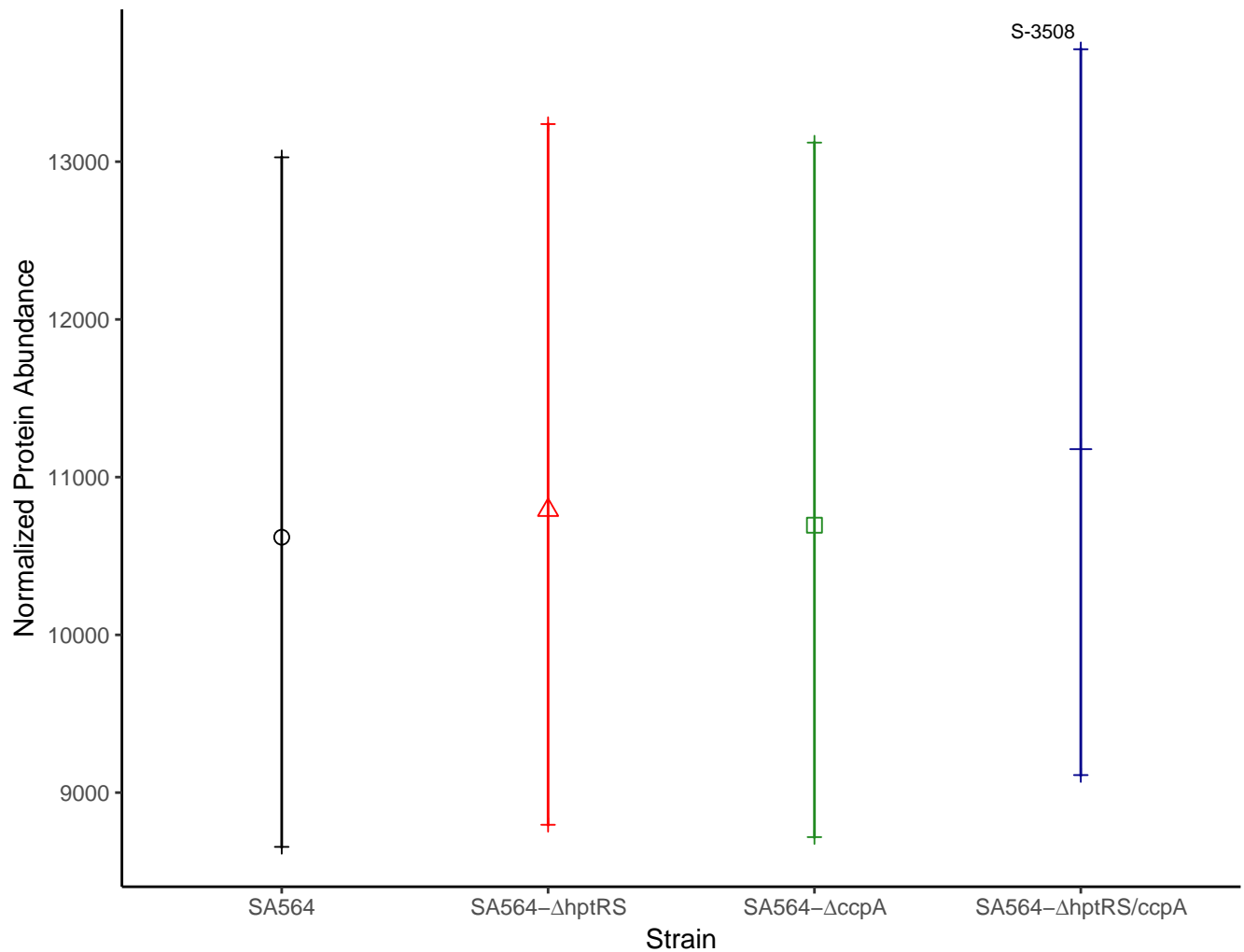
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y437\_STAAM



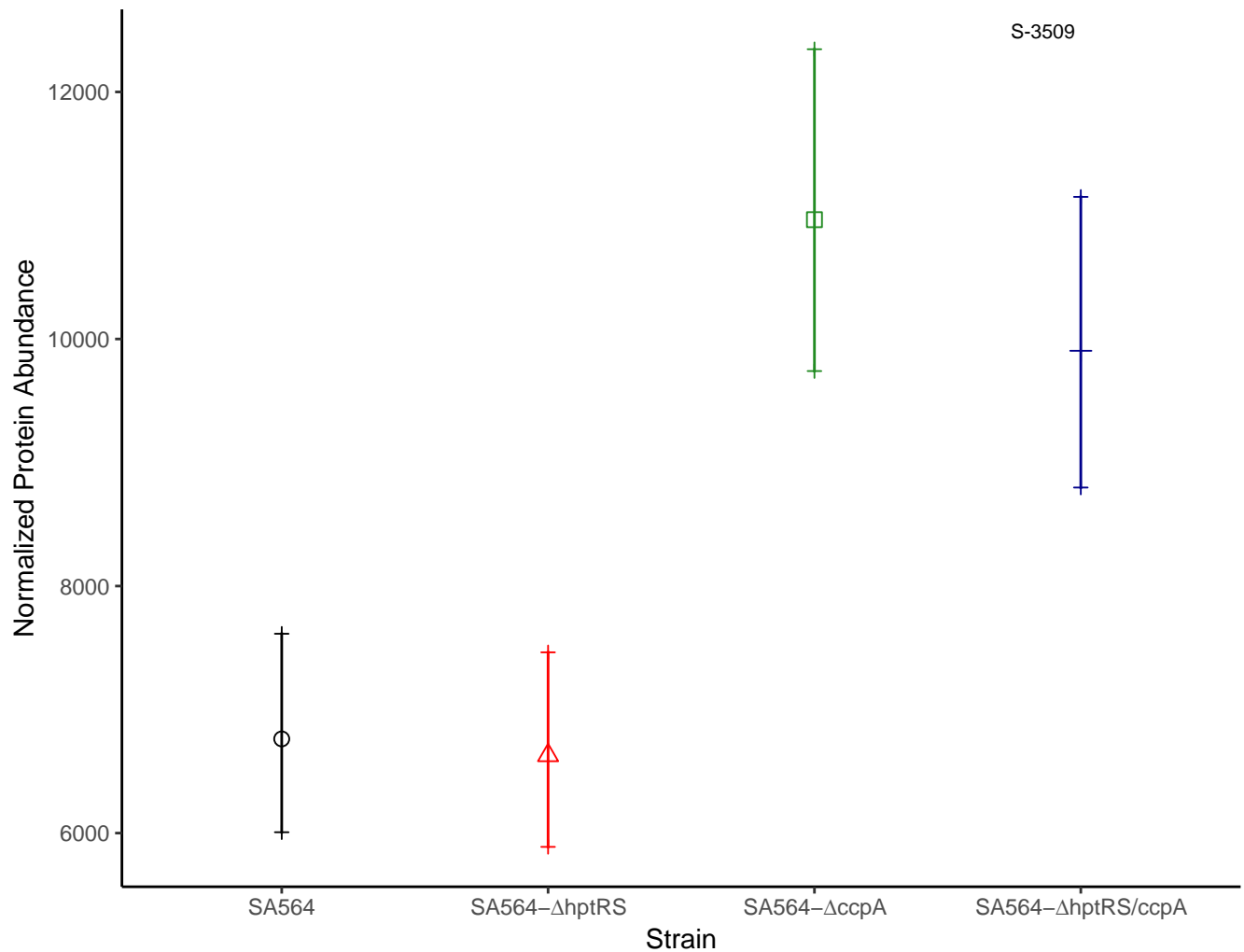
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y479\_STAAM



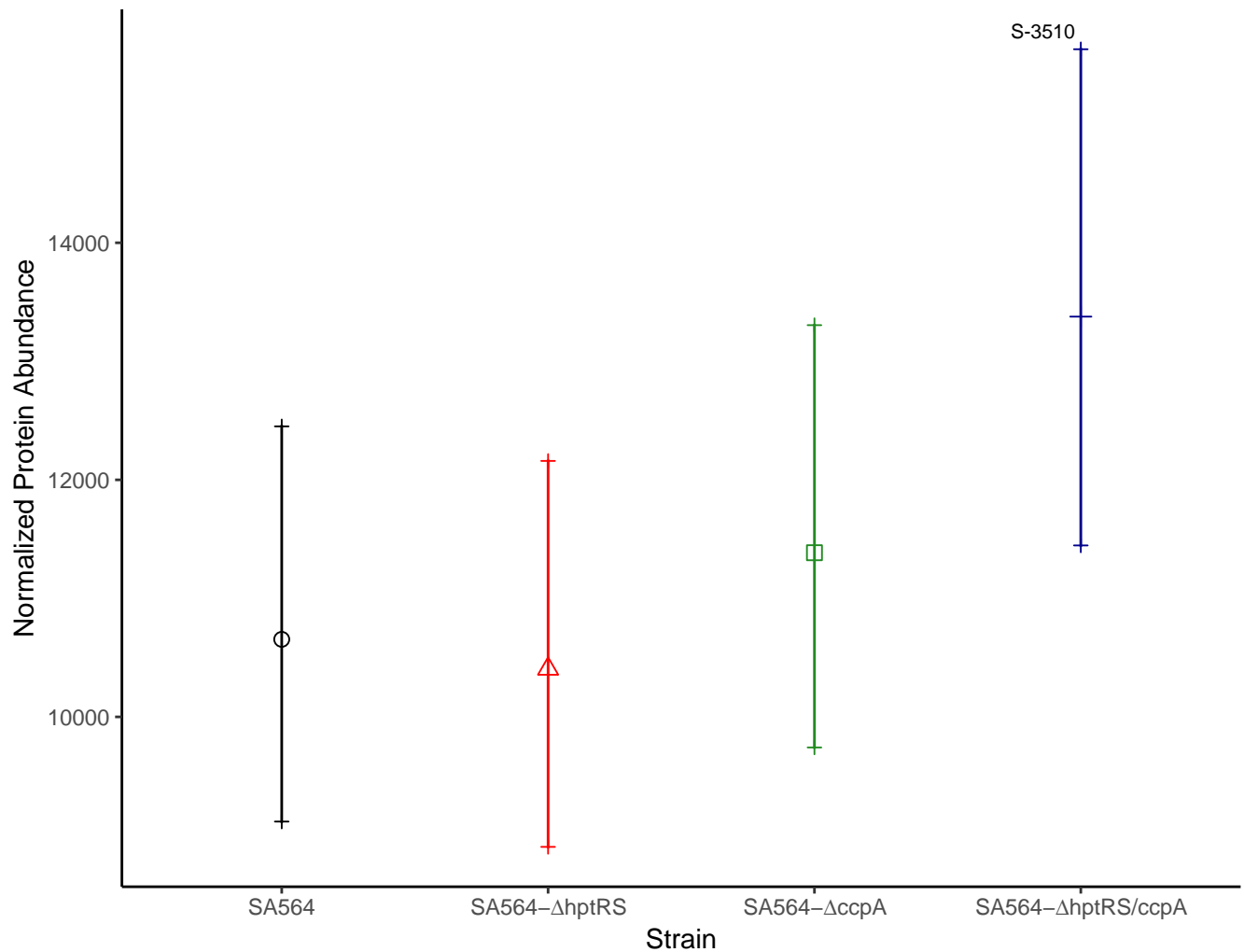
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y553\_STAAM



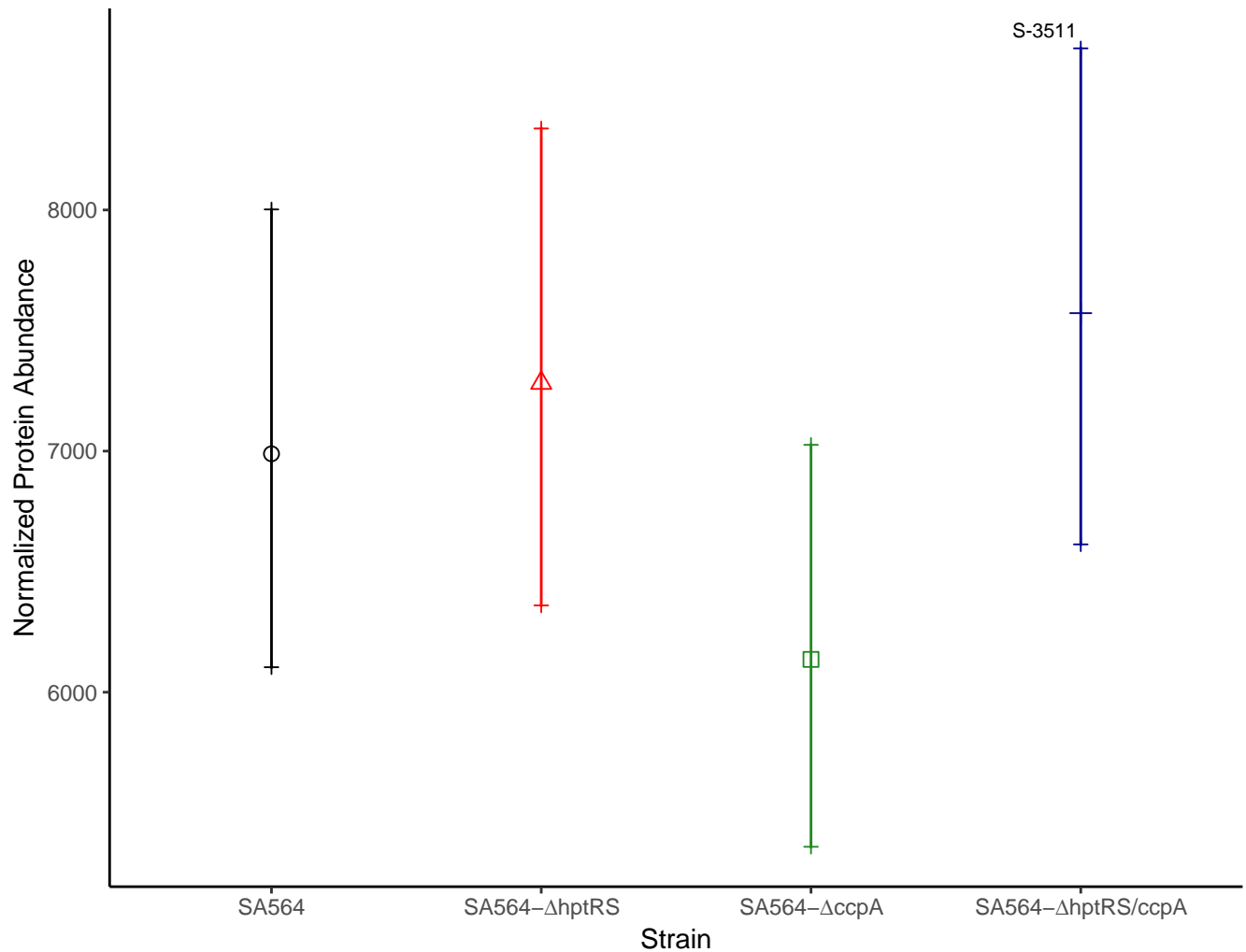
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y587\_STAAM



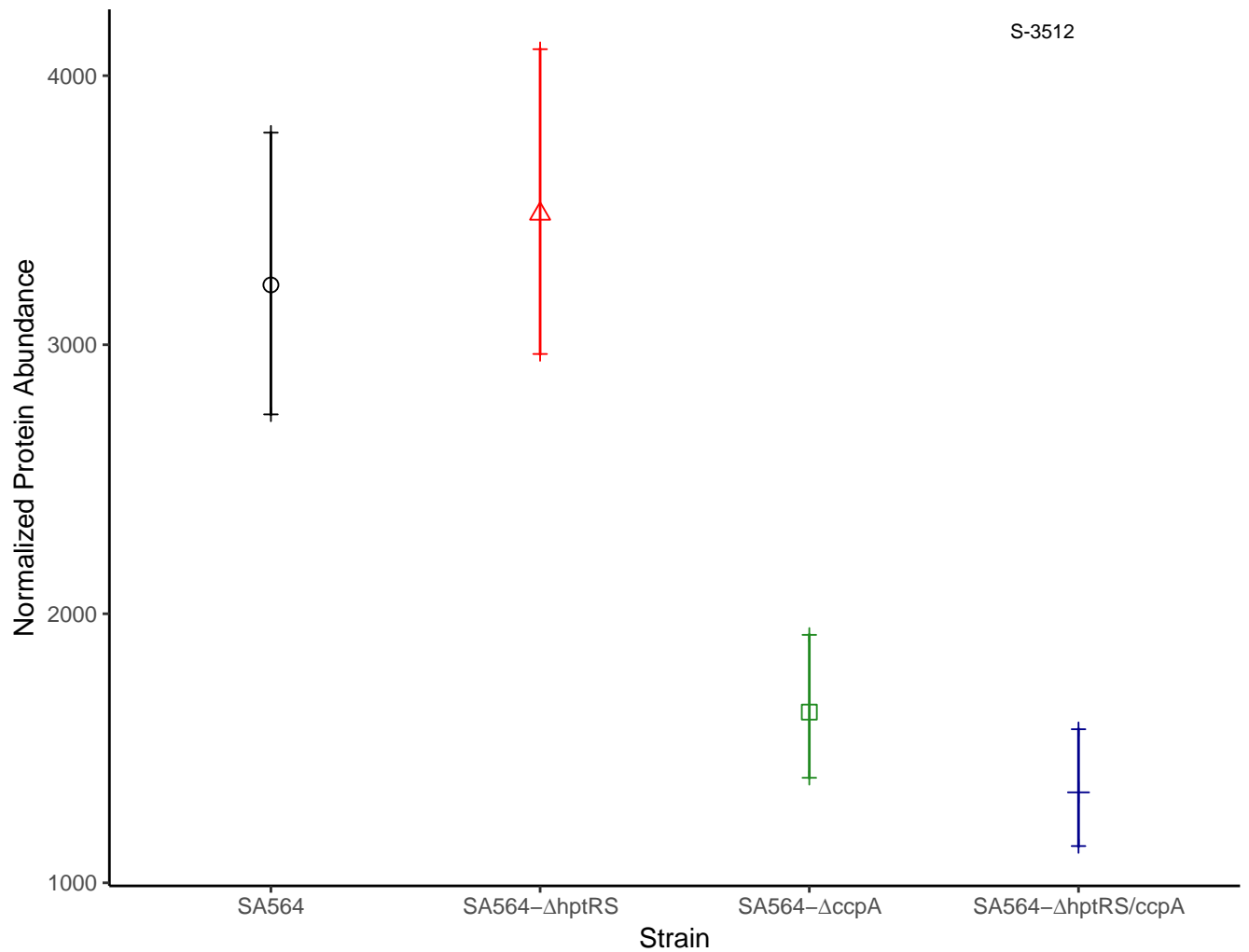
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y669\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

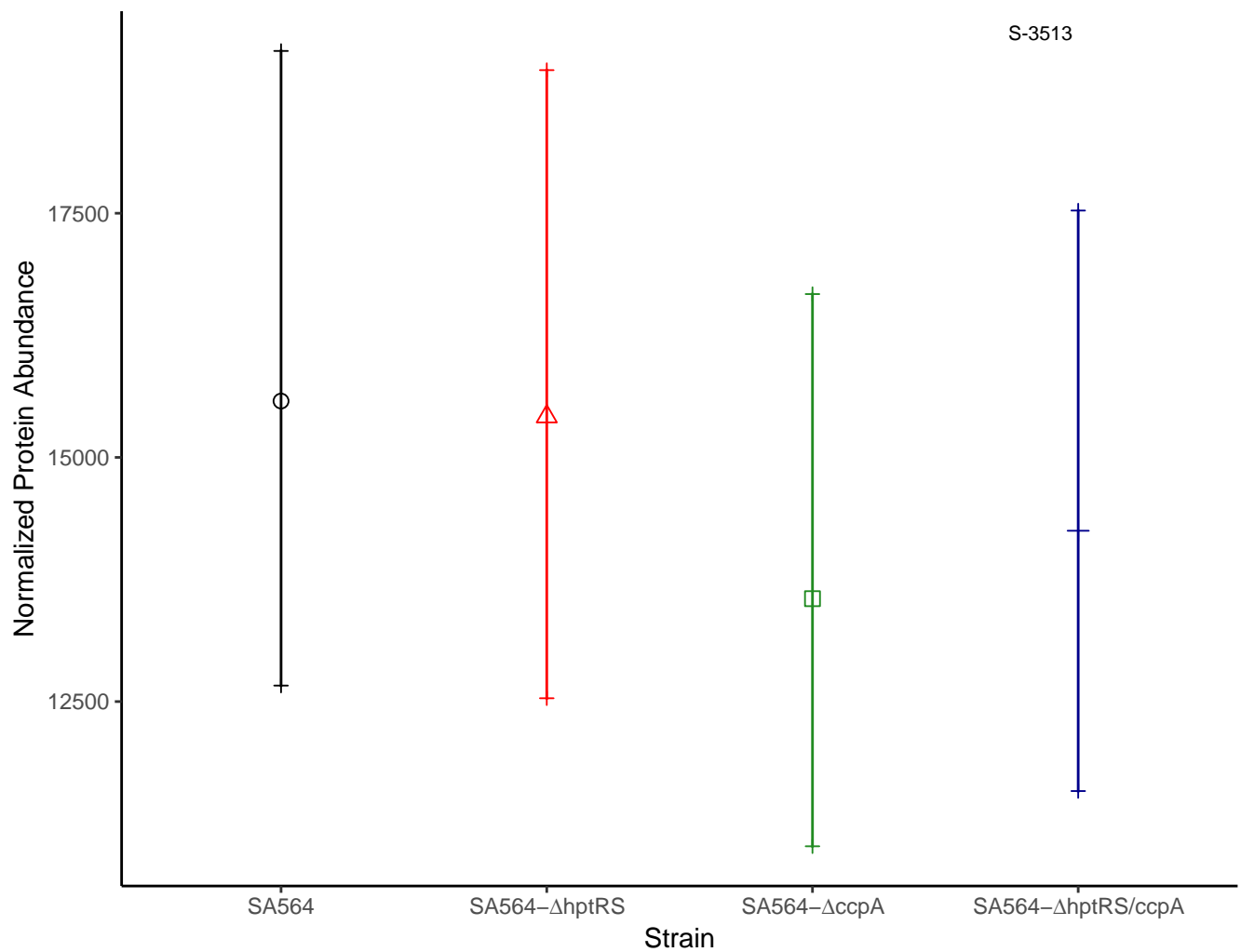
# Y752\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

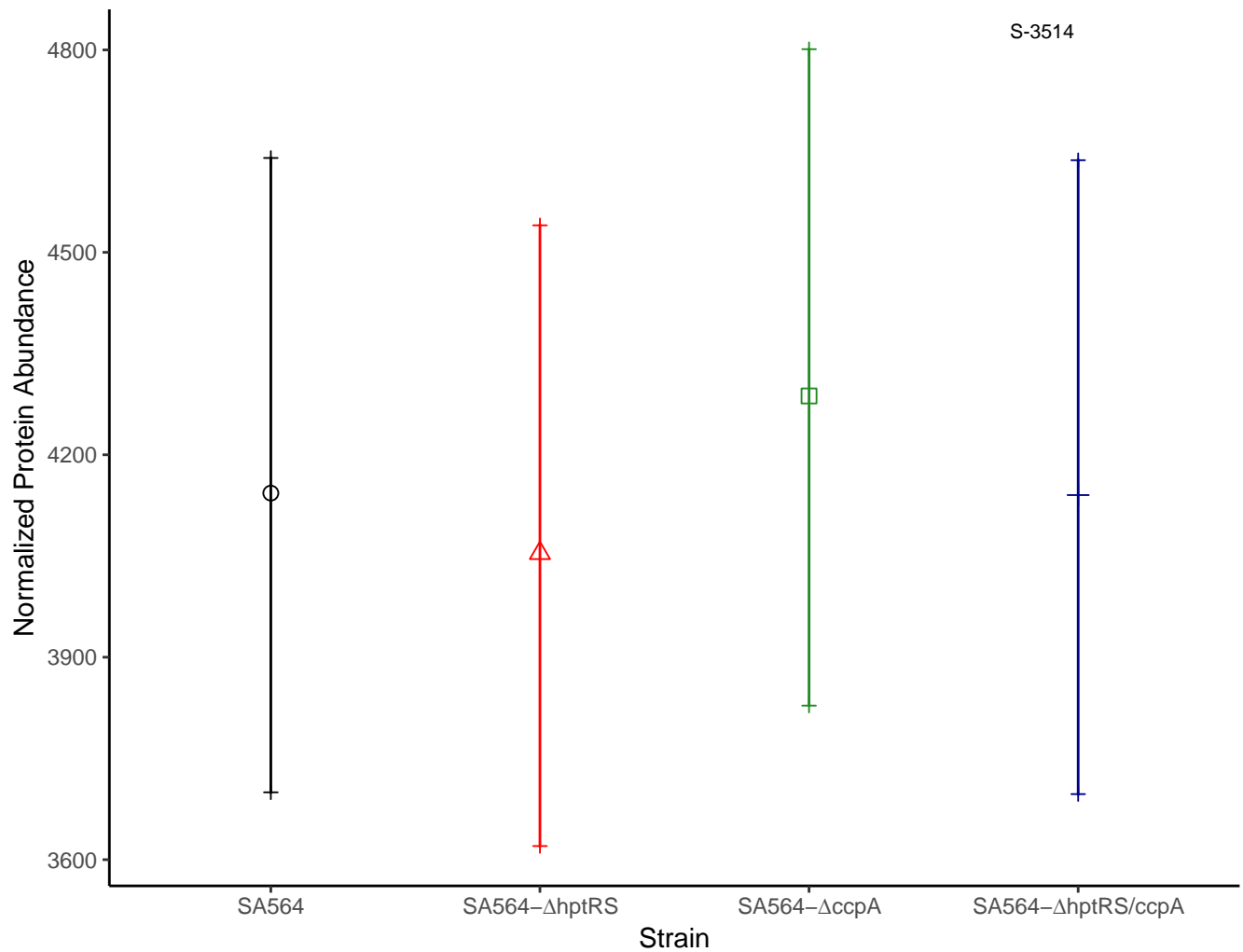


# Y765\_STAAM



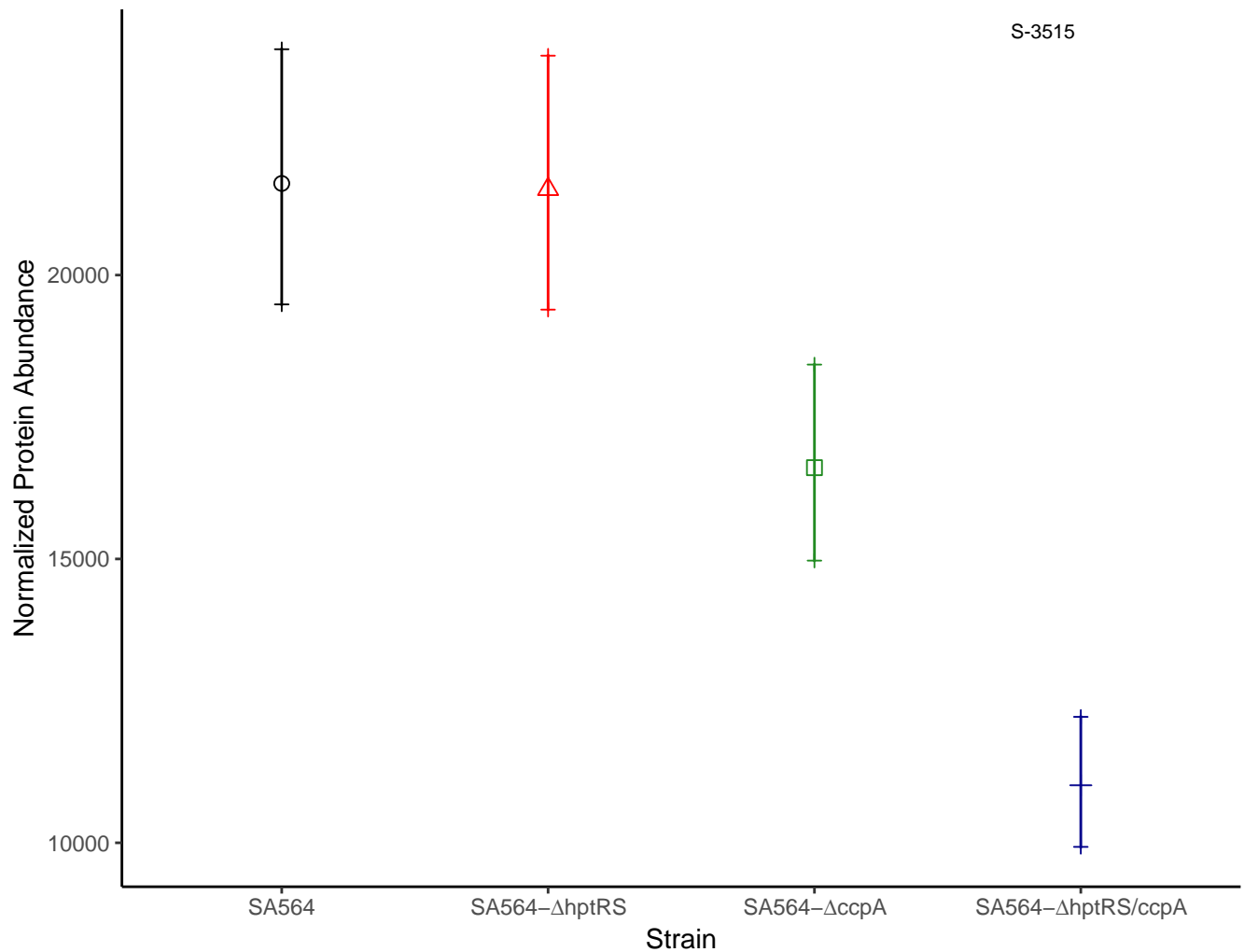
- ⊕ SA564
- △ SA564- $\Delta$ *hptRS*
- ⊞ SA564- $\Delta$ *ccpA*
- + SA564- $\Delta$ *hptRS/ccpA*

# Y769\_STAAM



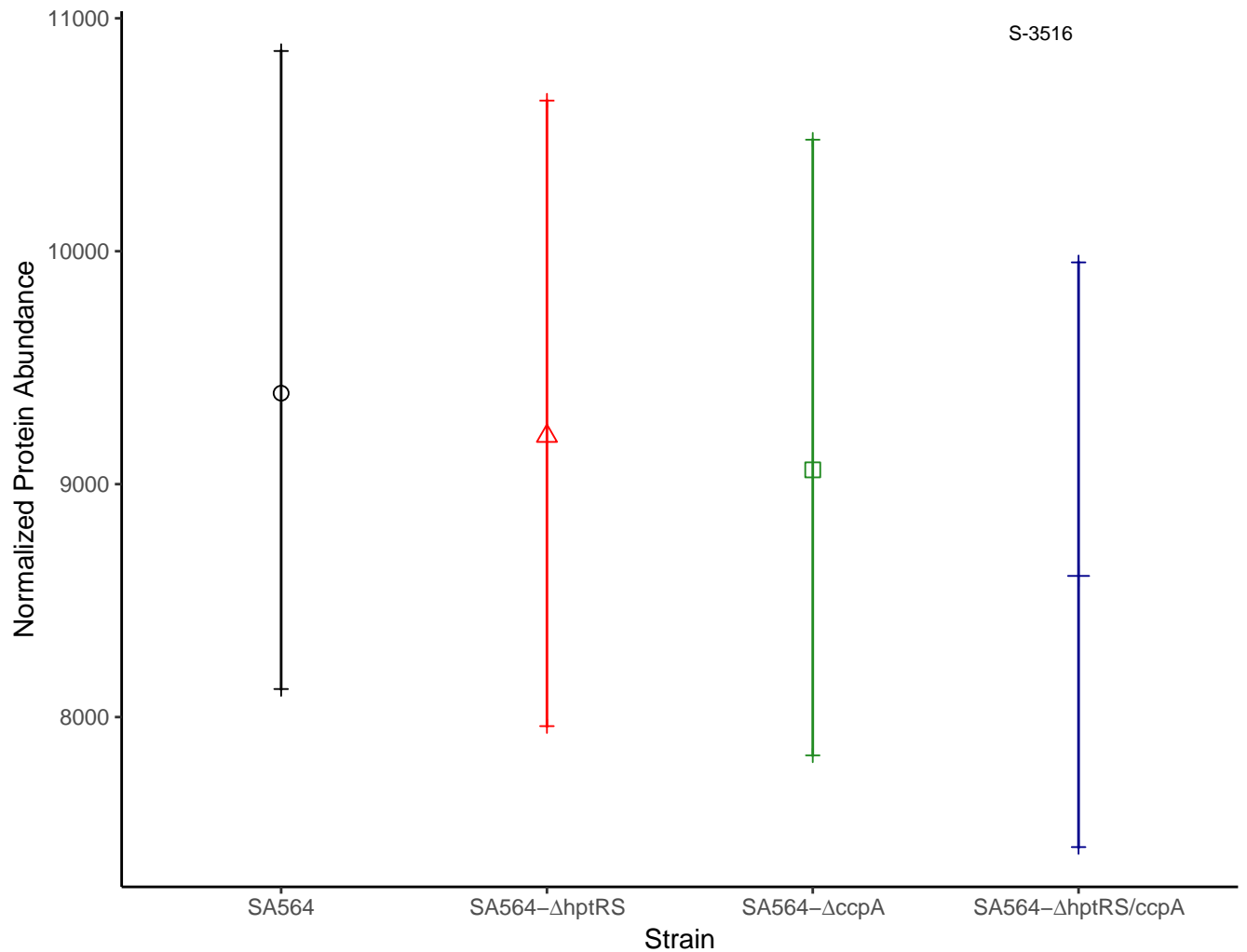
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y840\_STAAM



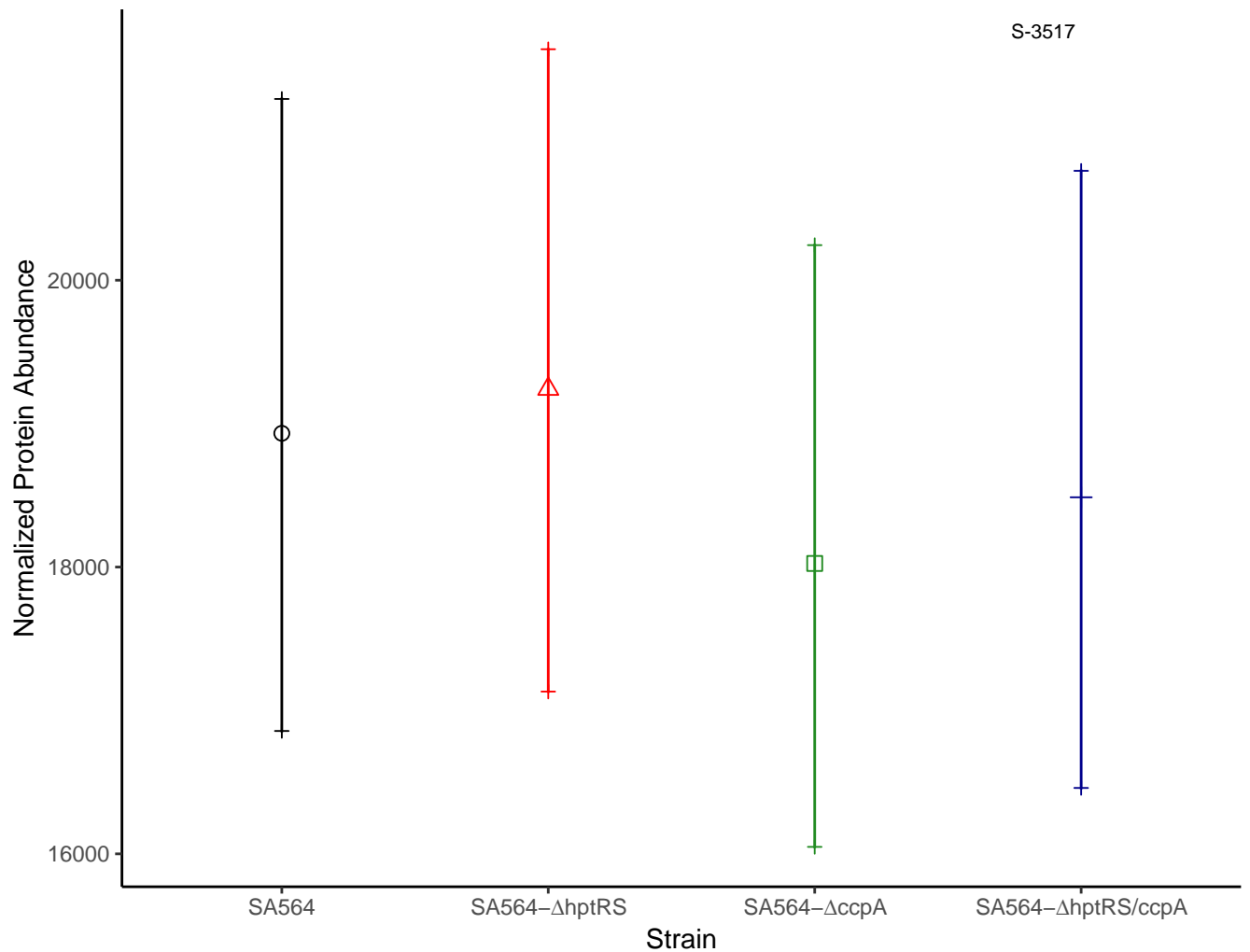
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y846\_STAAM



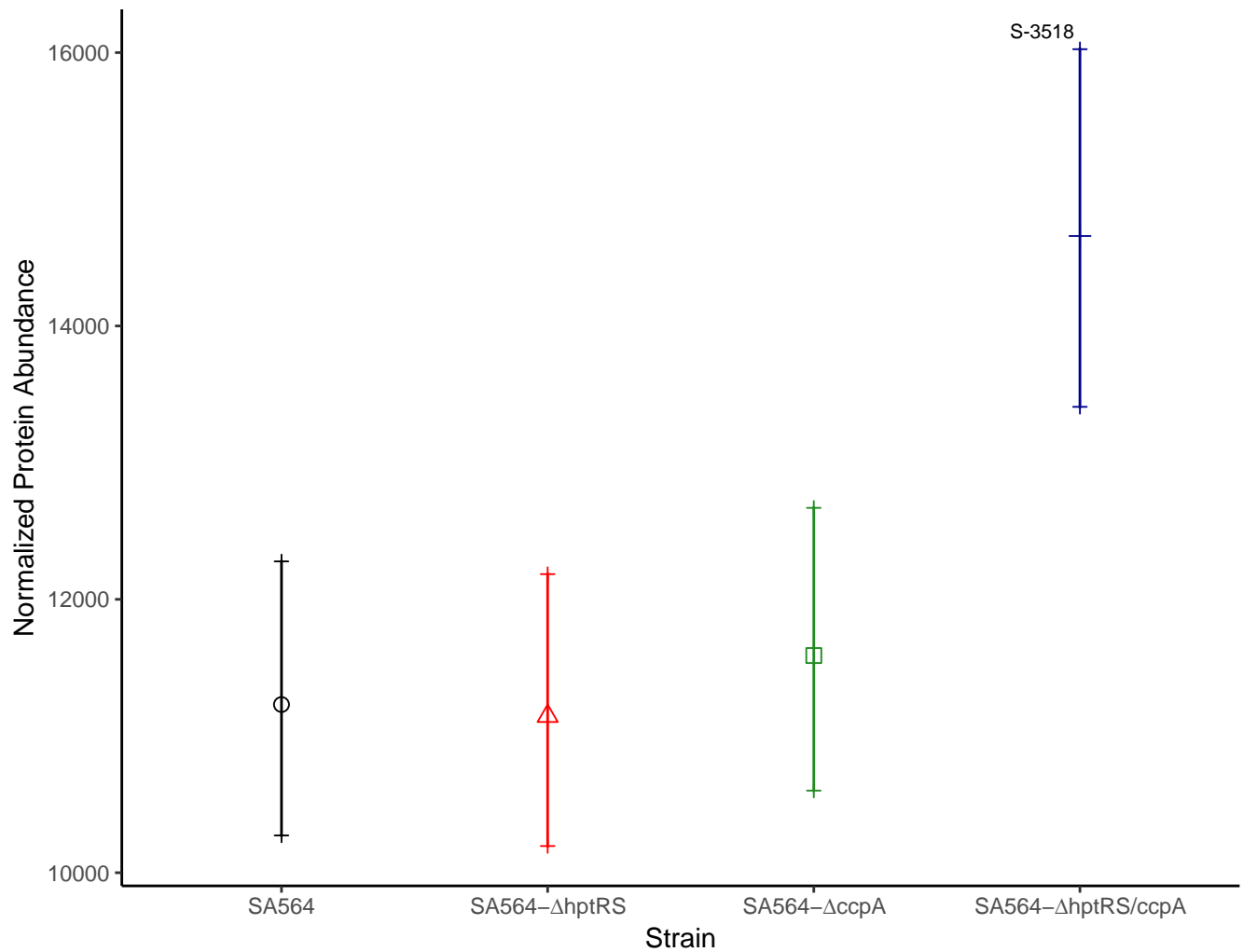
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y941\_STAAM



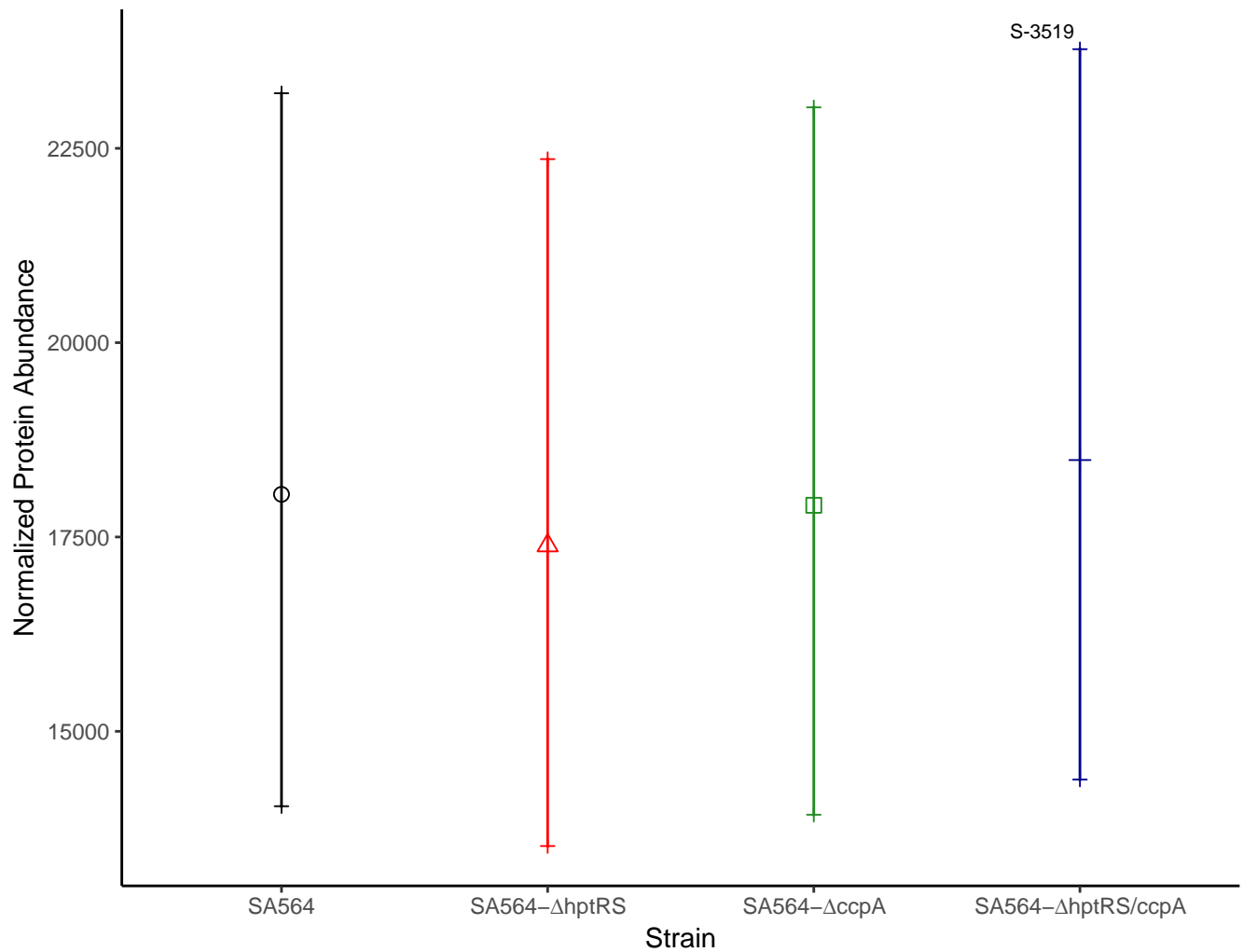
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# Y968\_STAAM



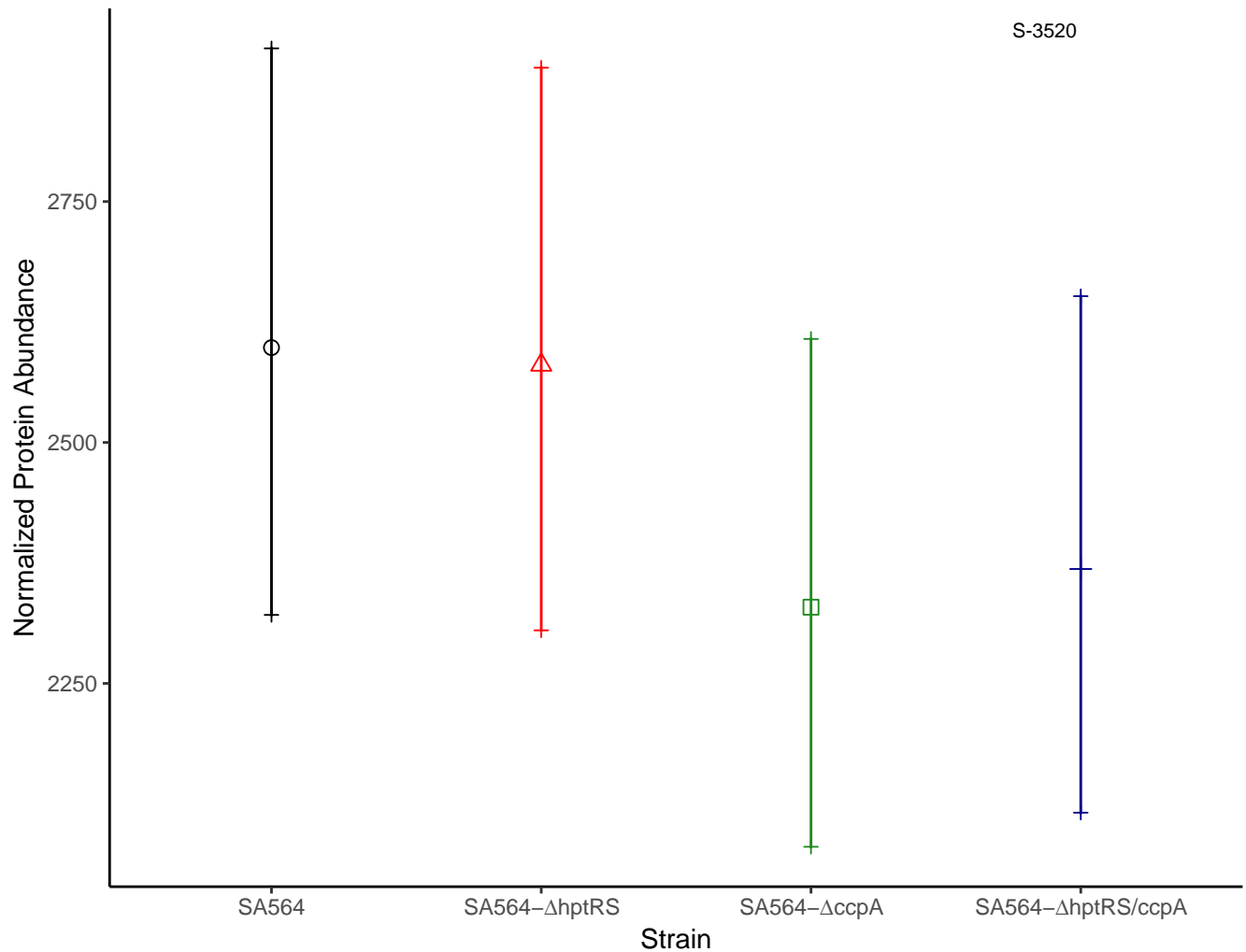
- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# YABA\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA

# YBEY\_STAAM



- ⊕ SA564
- △ SA564- $\Delta$ hptRS
- ⊞ SA564- $\Delta$ ccpA
- + SA564- $\Delta$ hptRS/ccpA