

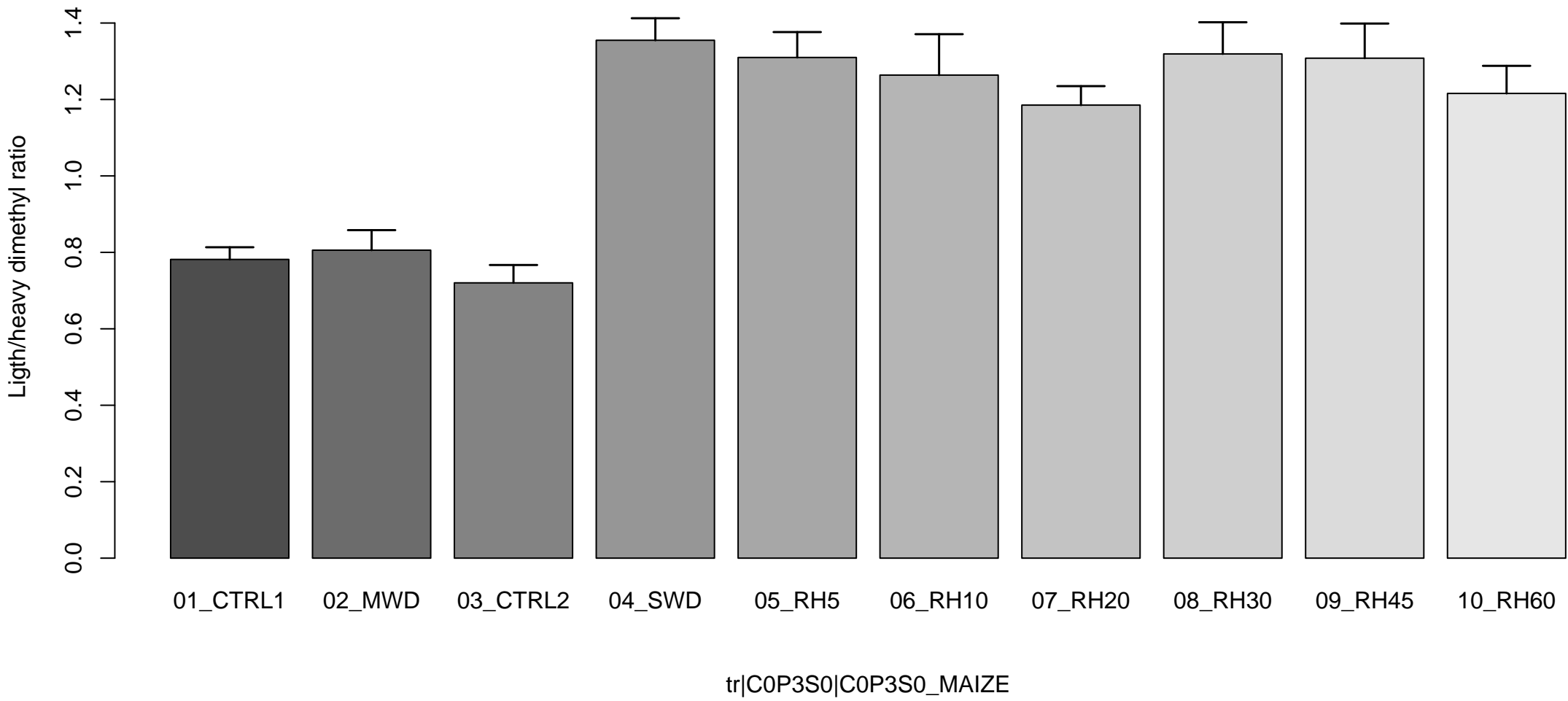
## Supplemental Information

### **Phosphoproteome dynamics upon changes in plant water status reveal early events associated with rapid growth adjustment in maize leaves**

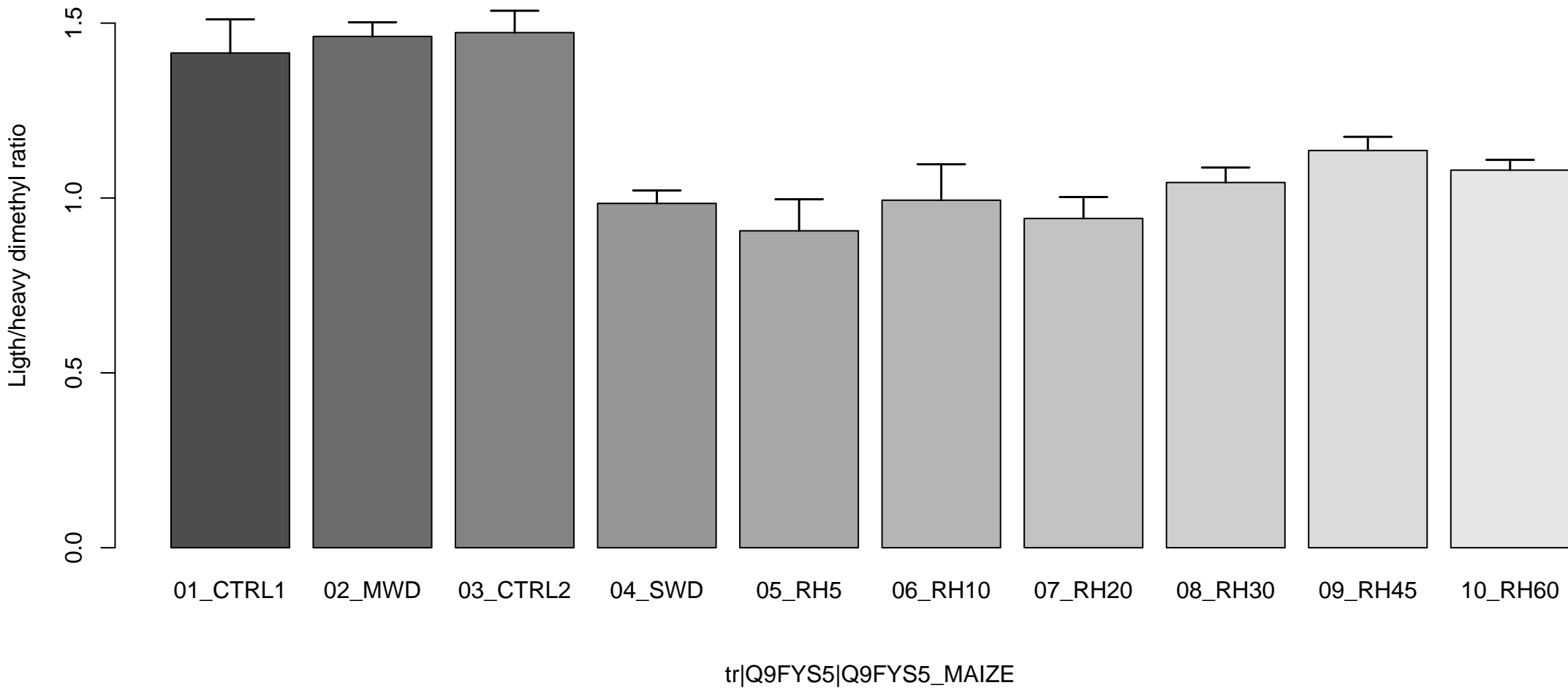
Ludovic Bonhomme, Benoît Valot, François Tardieu and Michel Zivy

**Supplemental Fig. S6. Relative abundances of the 132 significantly changed phosphorylation sites.** Bars show mean values  $\pm$  SEM computed for each treatment.

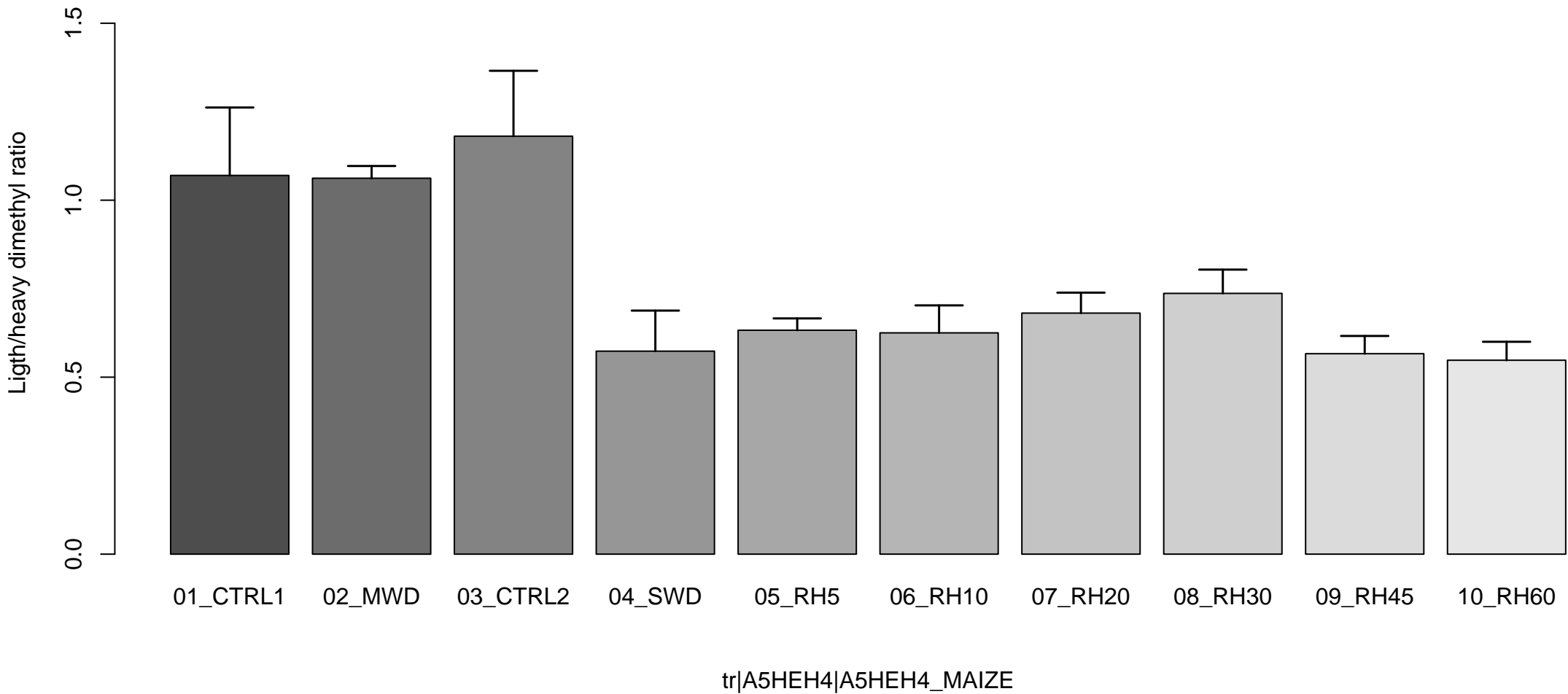
### Putative uncharacterized protein # S171



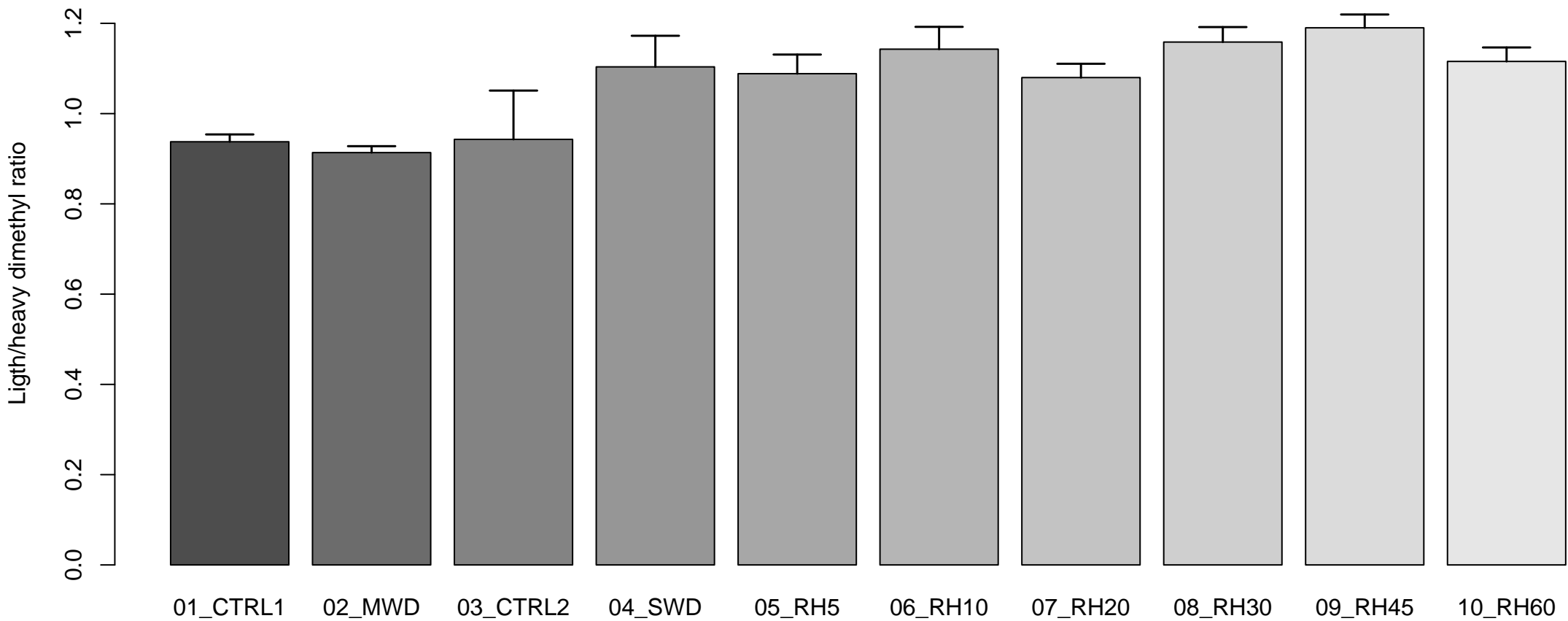
### High mobility group I/Y-2 # S155/S157



# GIF2 # S212

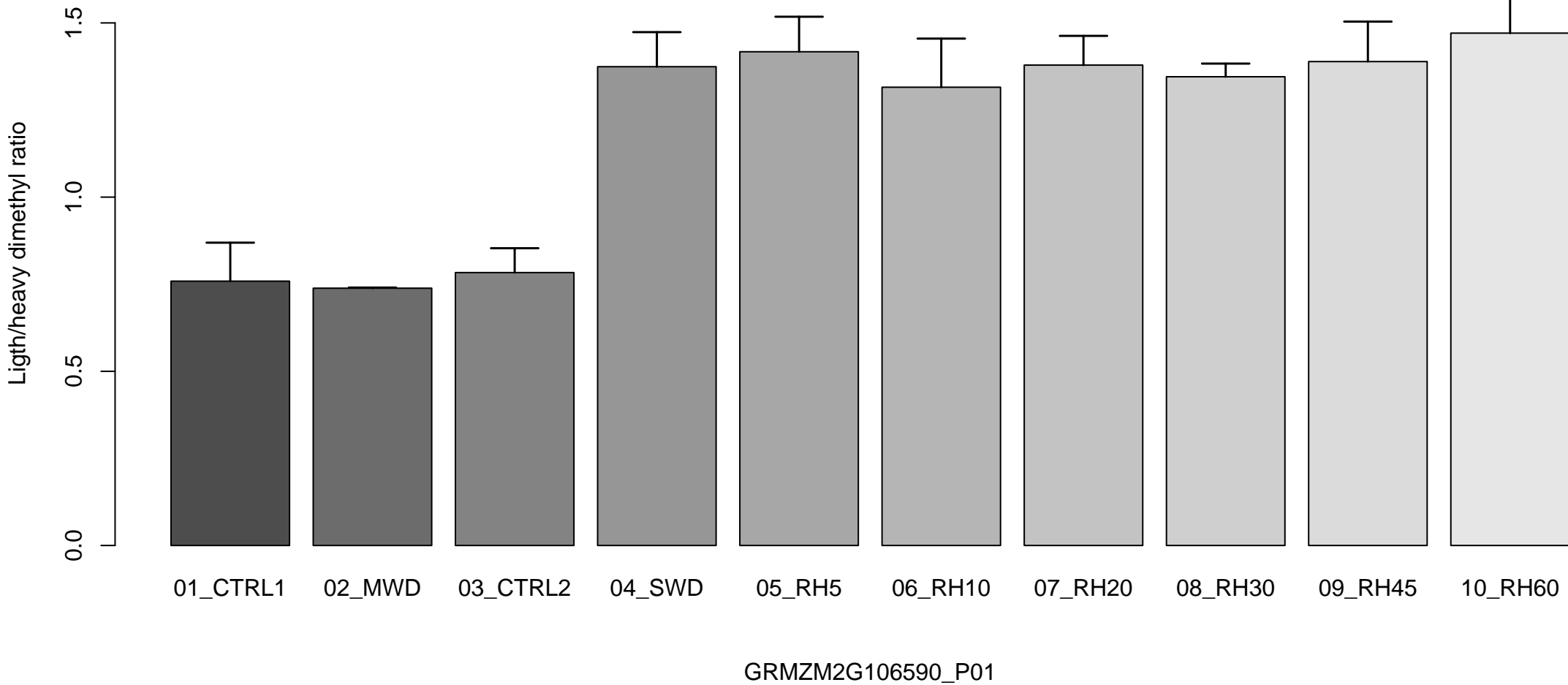


### R3h domain containing protein, Putative # T278

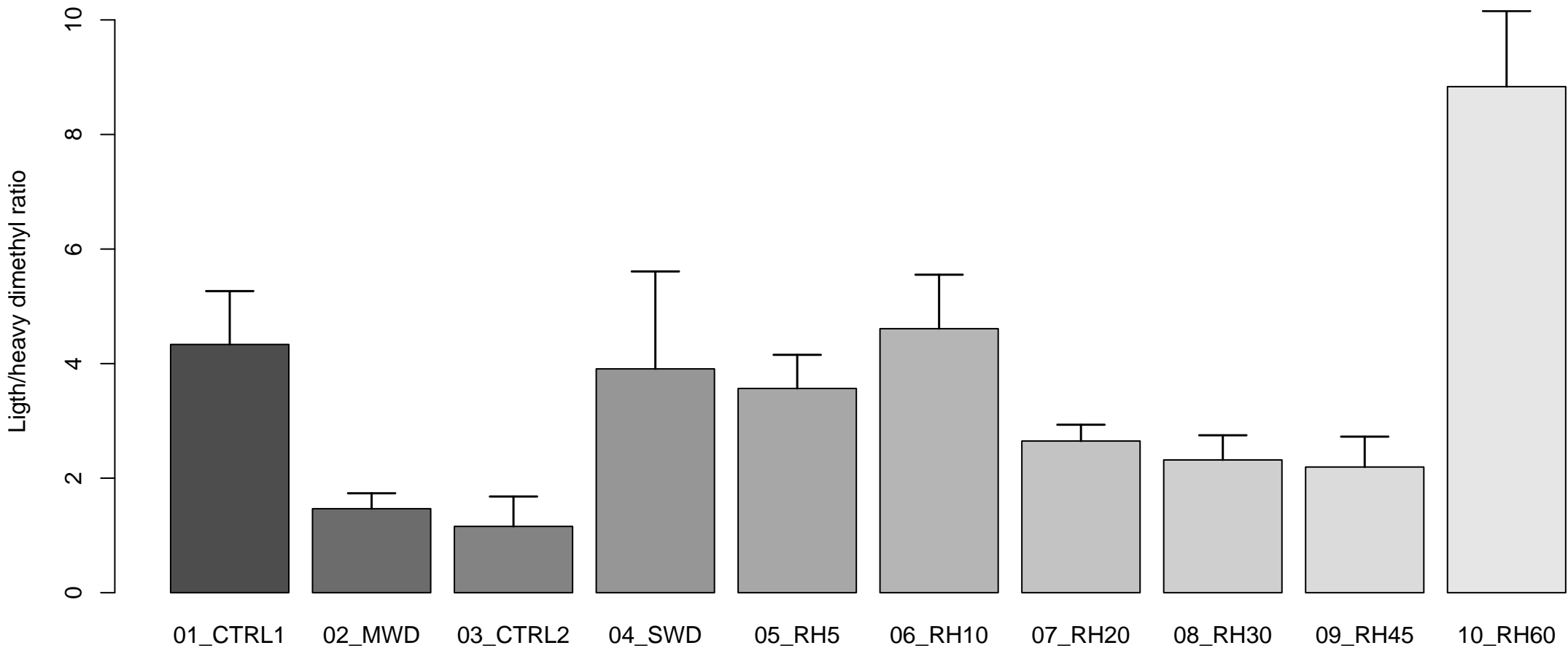


GRMZM2G103345\_P02

### Putative uncharacterized protein # S371/S372

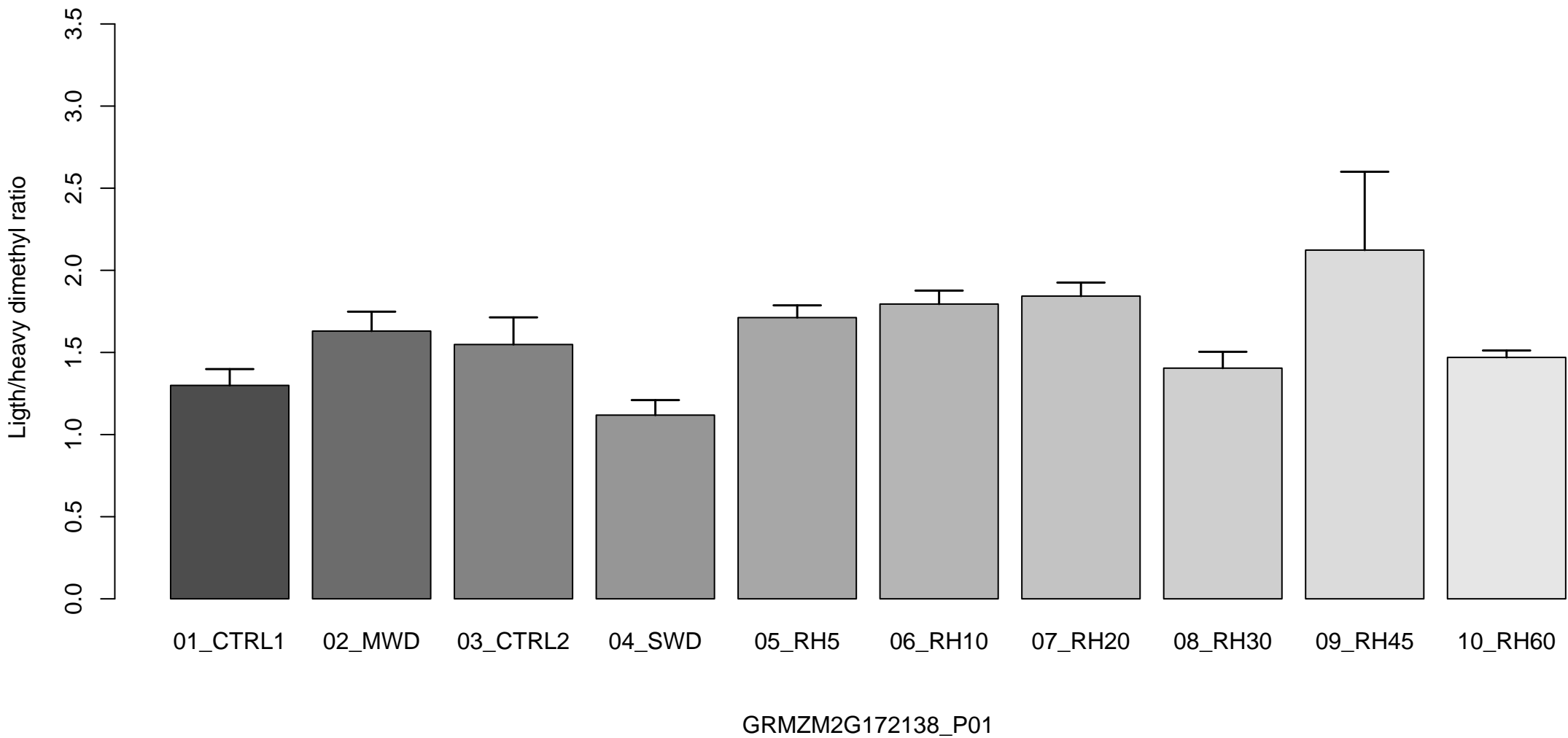


# Protein kinase G11A # S665



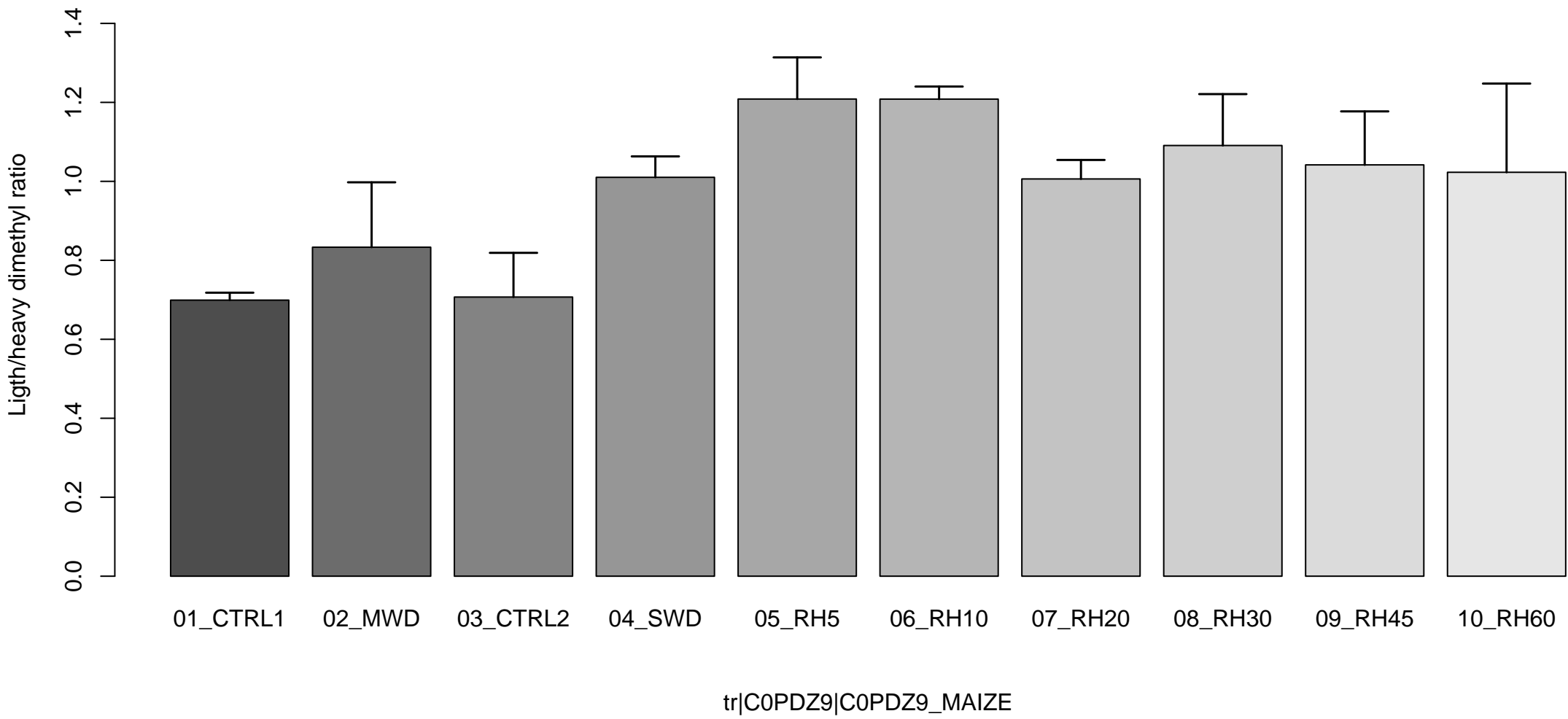
GRMZM2G016939\_P03

### Transmembrane protein 115 # S335

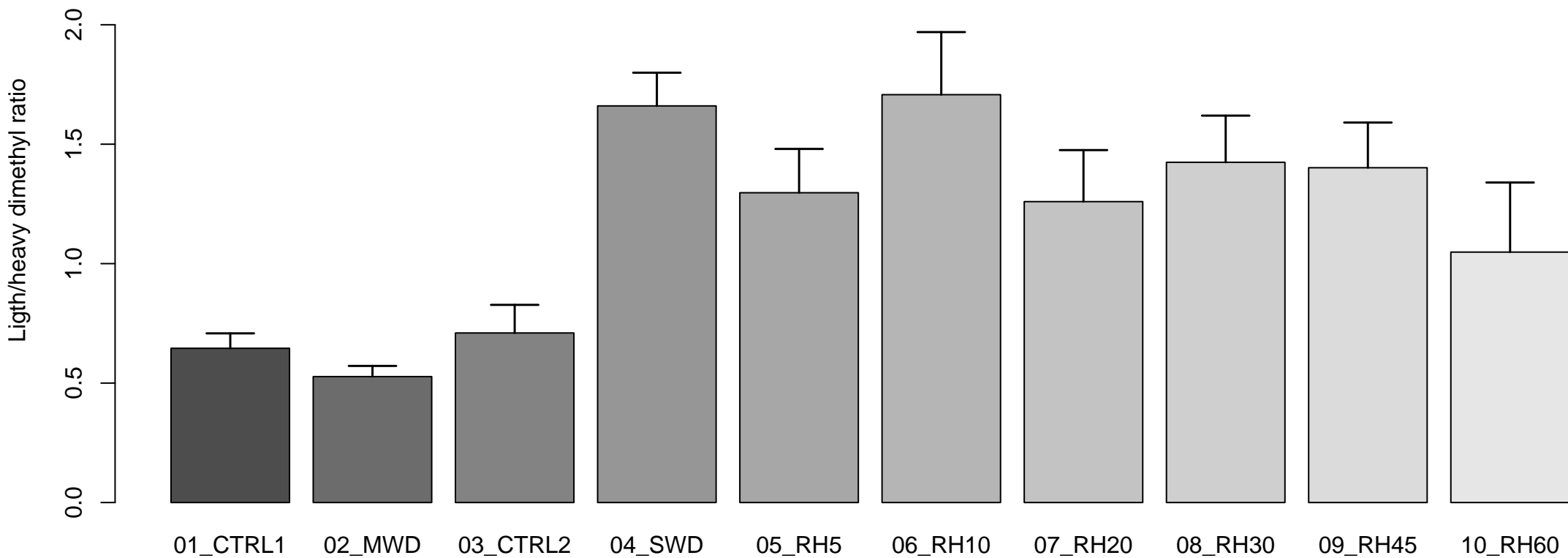




### Putative uncharacterized protein # S349/S350

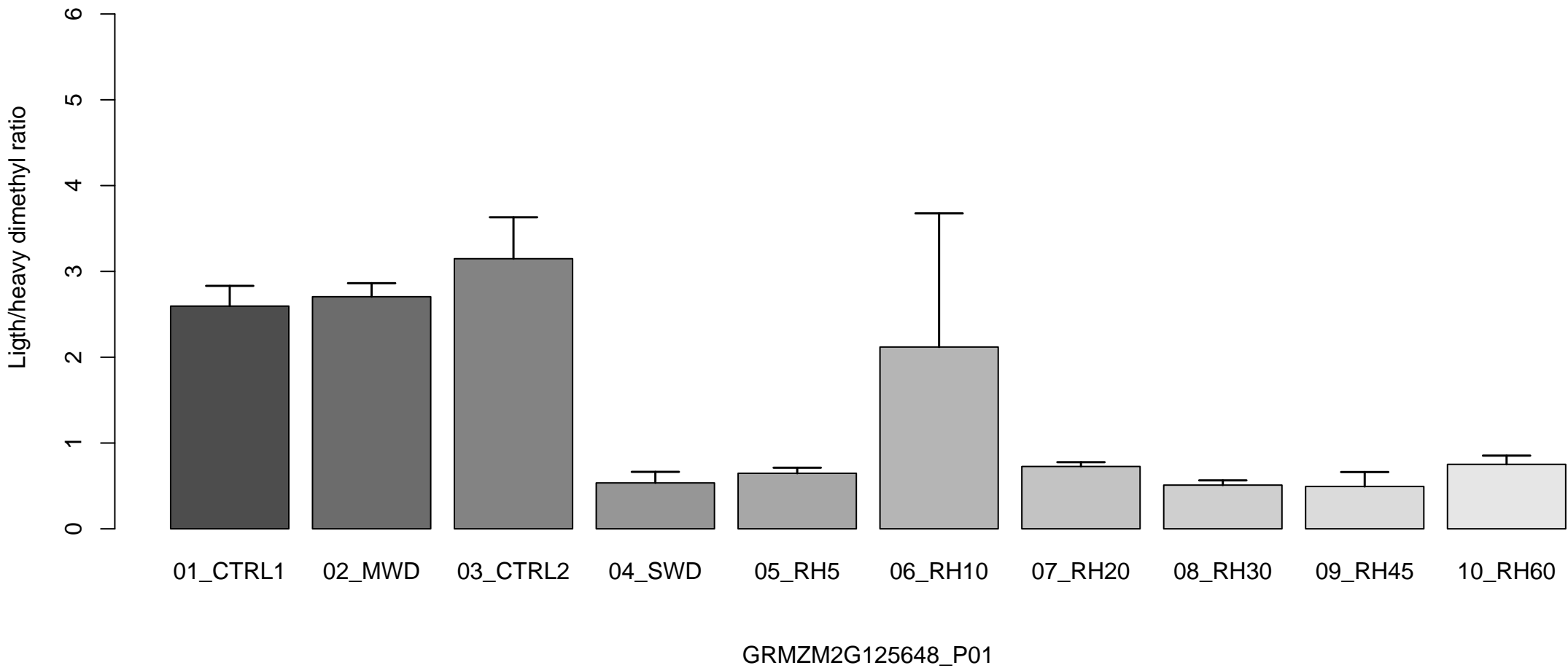


# ADP-ribosylation factor GTPase-activating protein 3 # S406

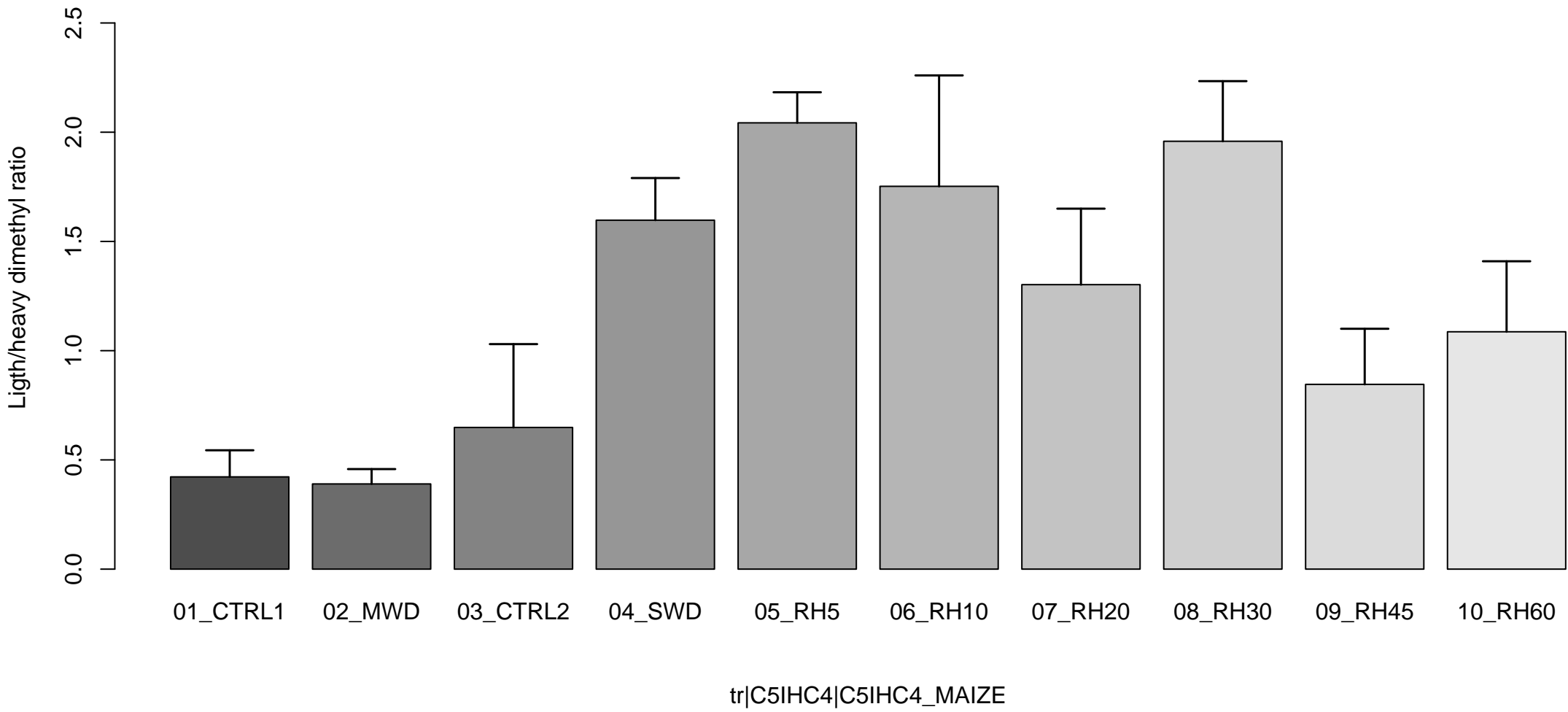


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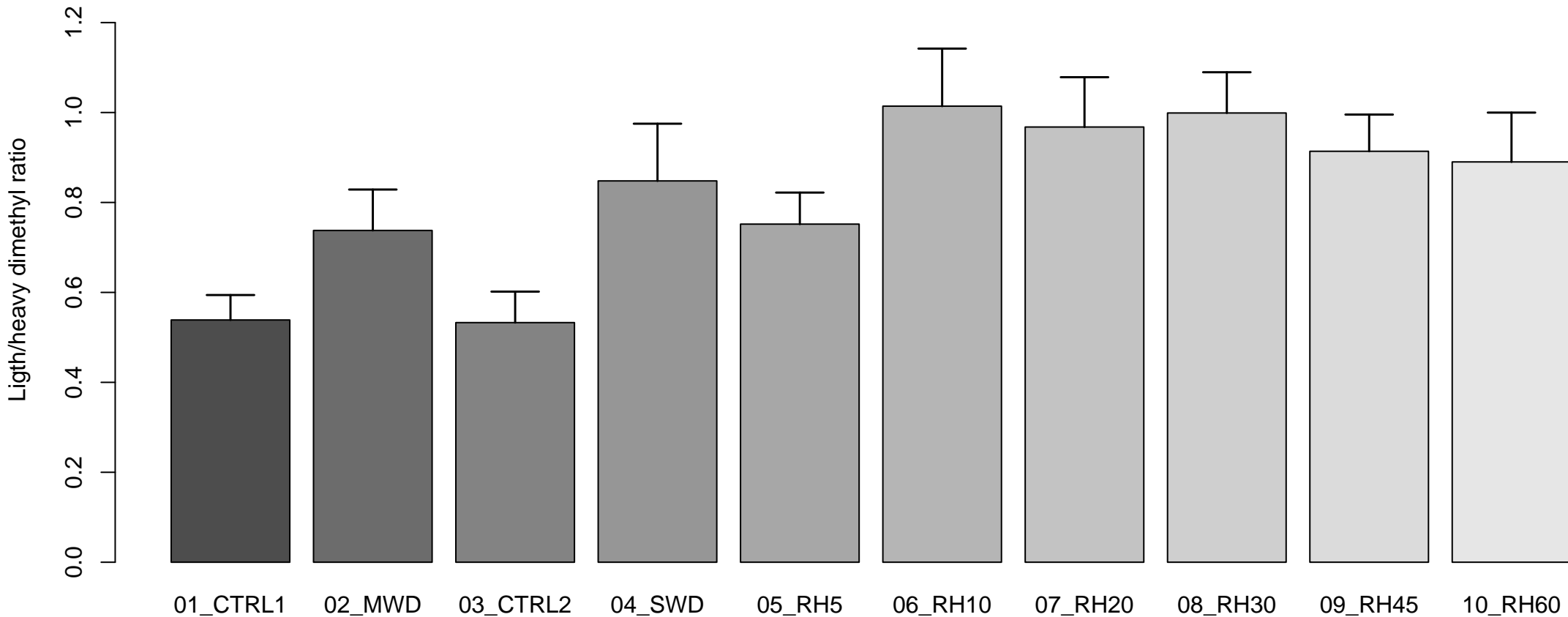
### HMG1/2-like protein # S159



### Cytosolic orthophosphate dikinase # T461

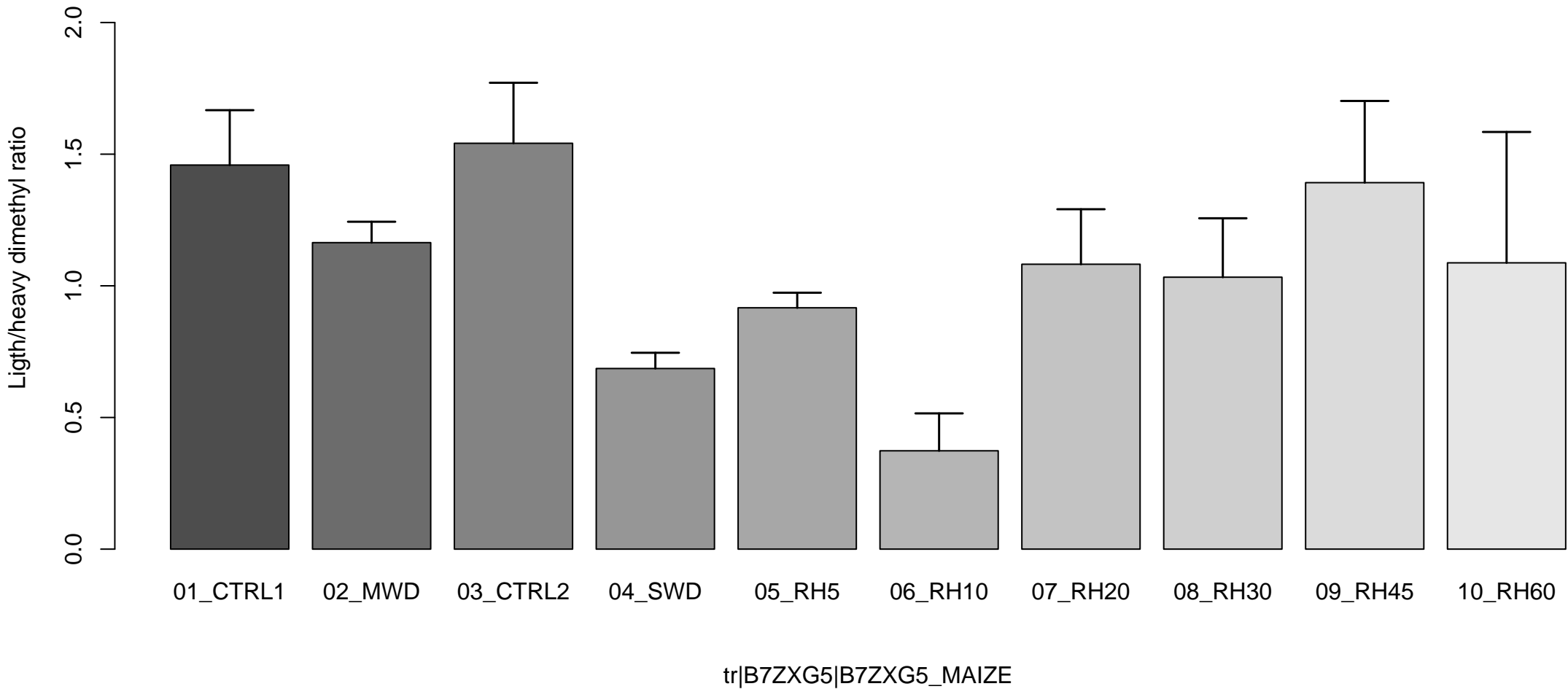


### Citrate transporter family protein # S241

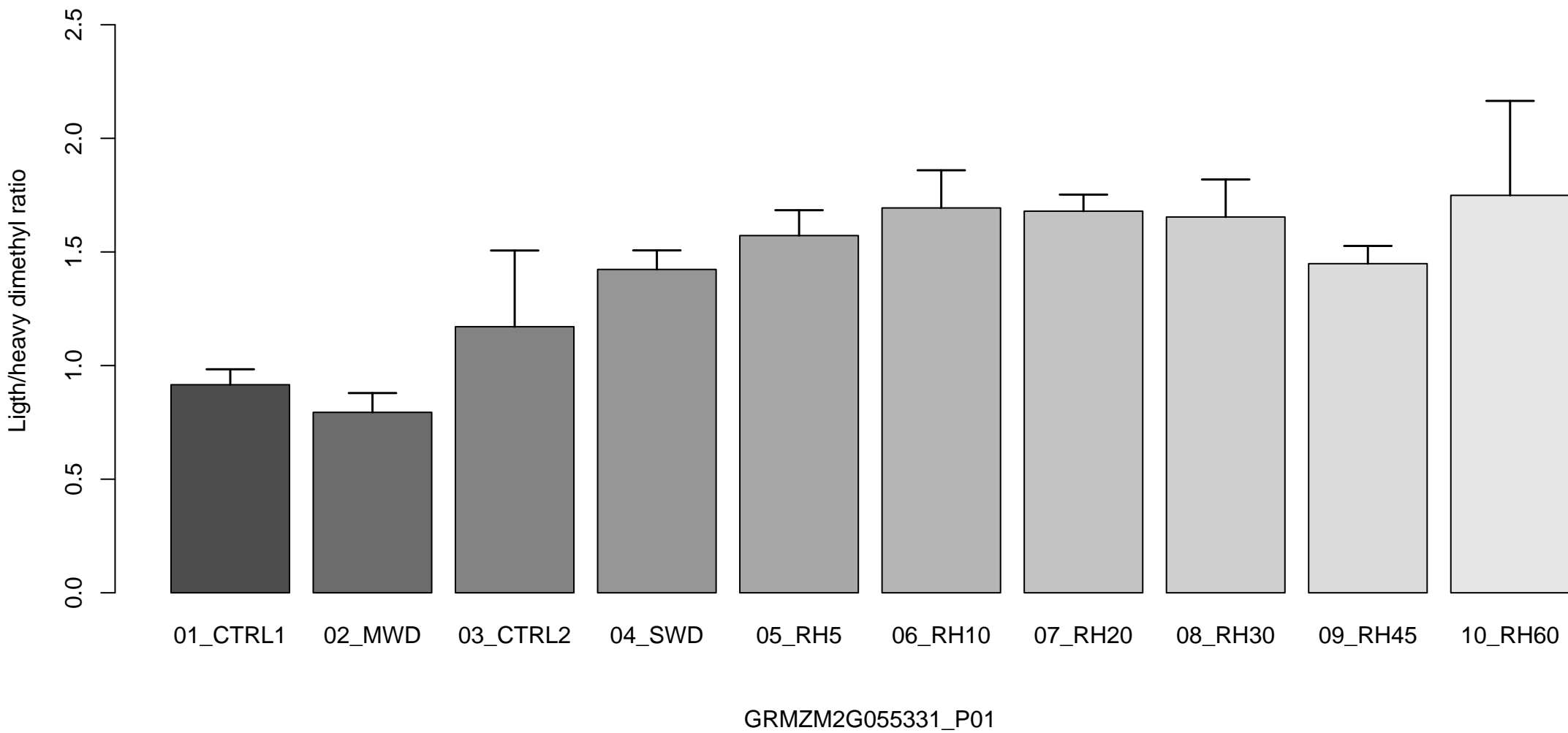


tr|B8A307|B8A307\_MAIZE

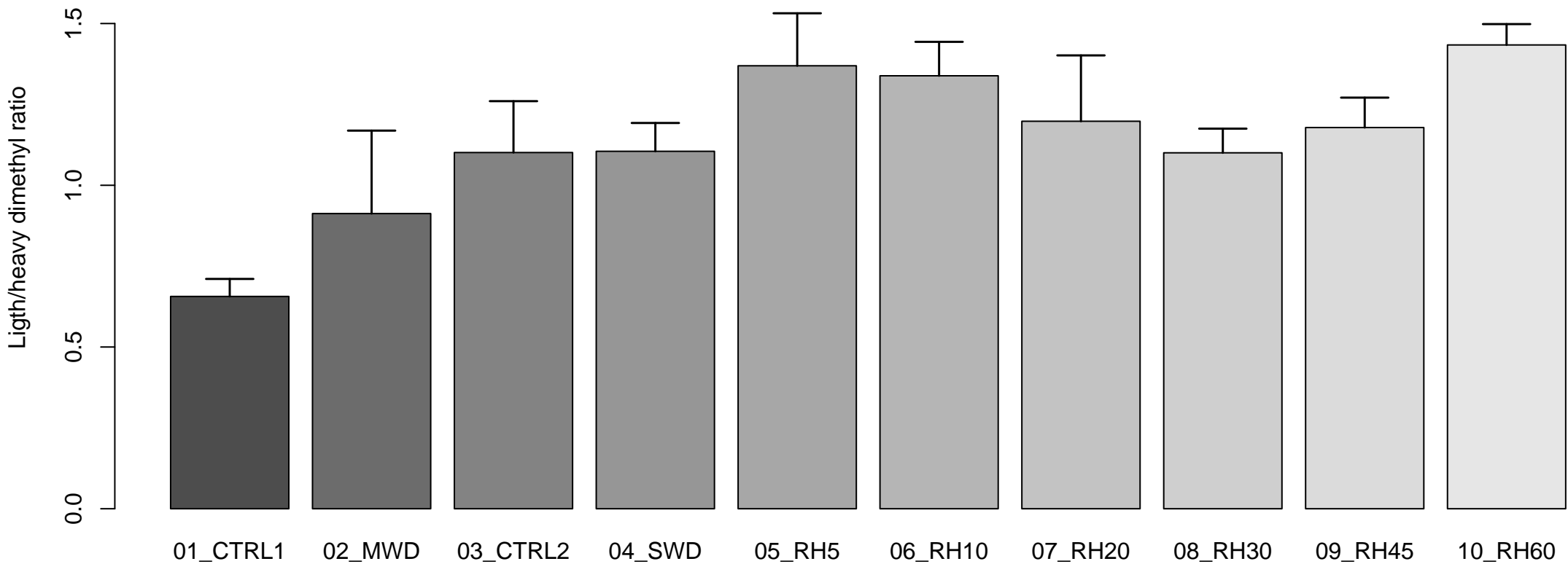
### Ubiquitin interaction motif-containing protein # S21



### Sucrose phosphate synthase A # S168



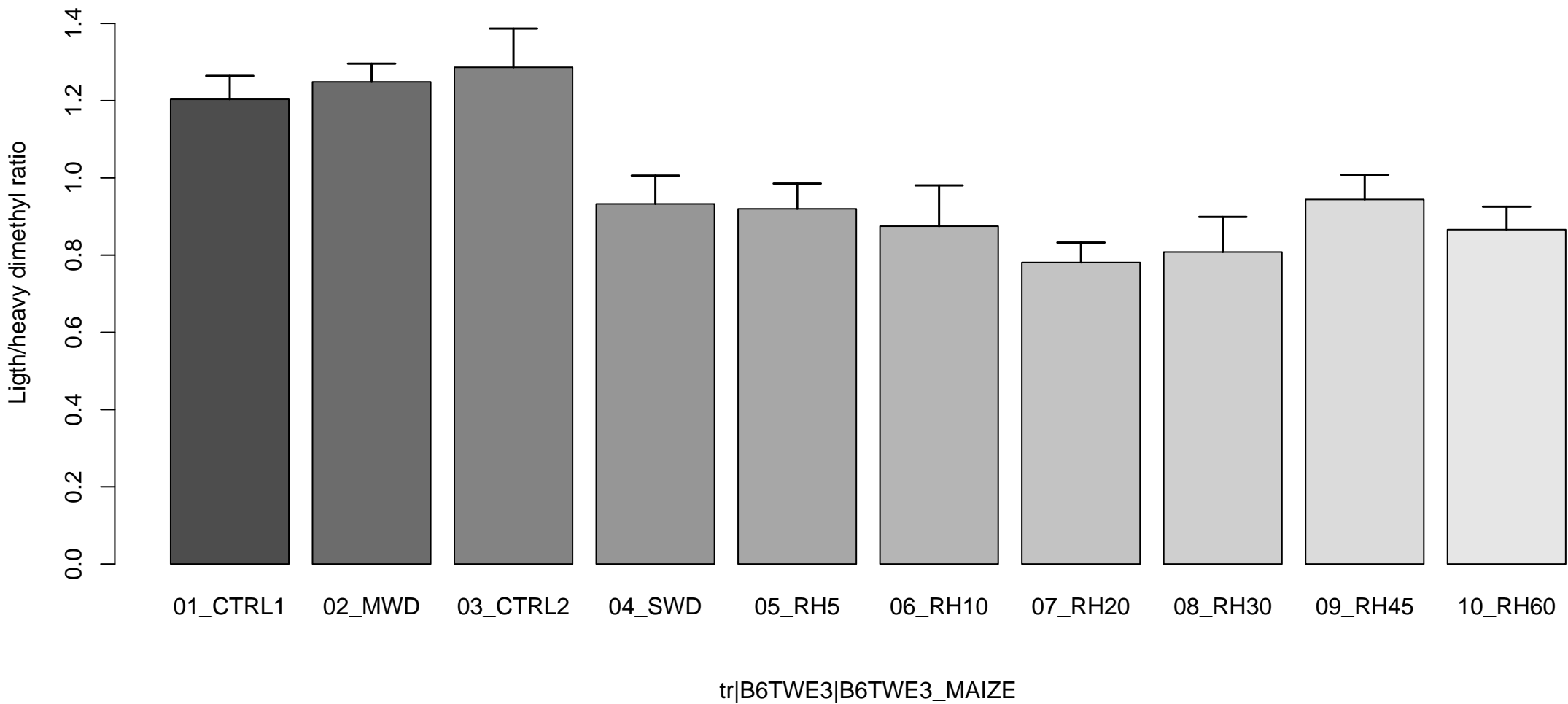
### Sucrose phosphate synthase A # S95



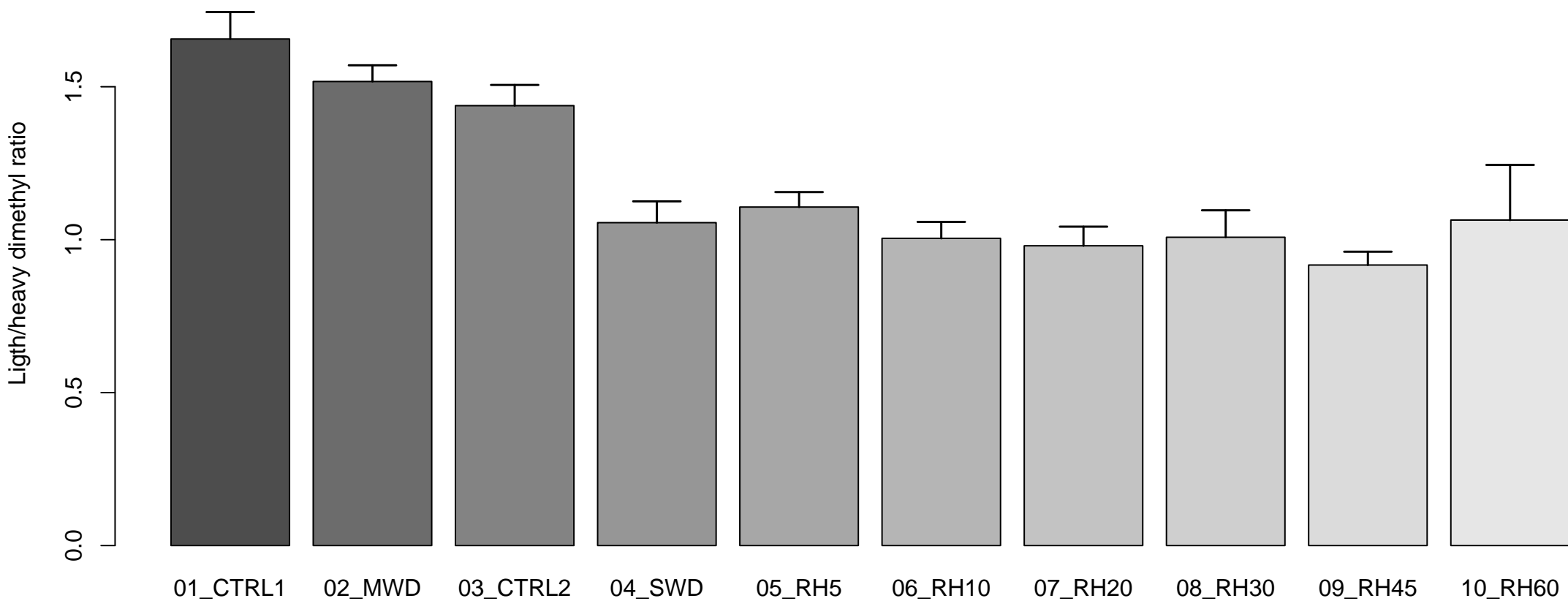
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# HMGI/Y protein # S151

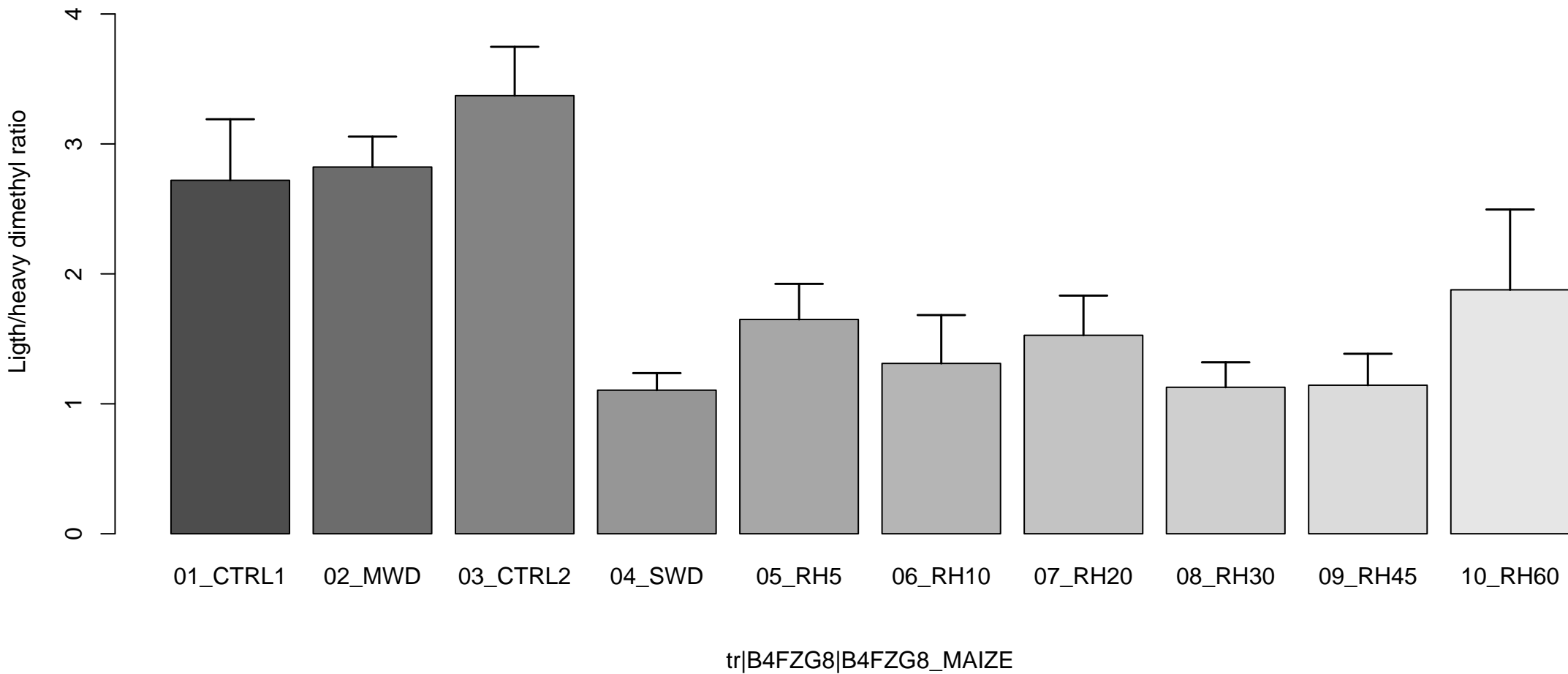


# Eukaryotic translation initiation factor 3 subunit G # T168/S169

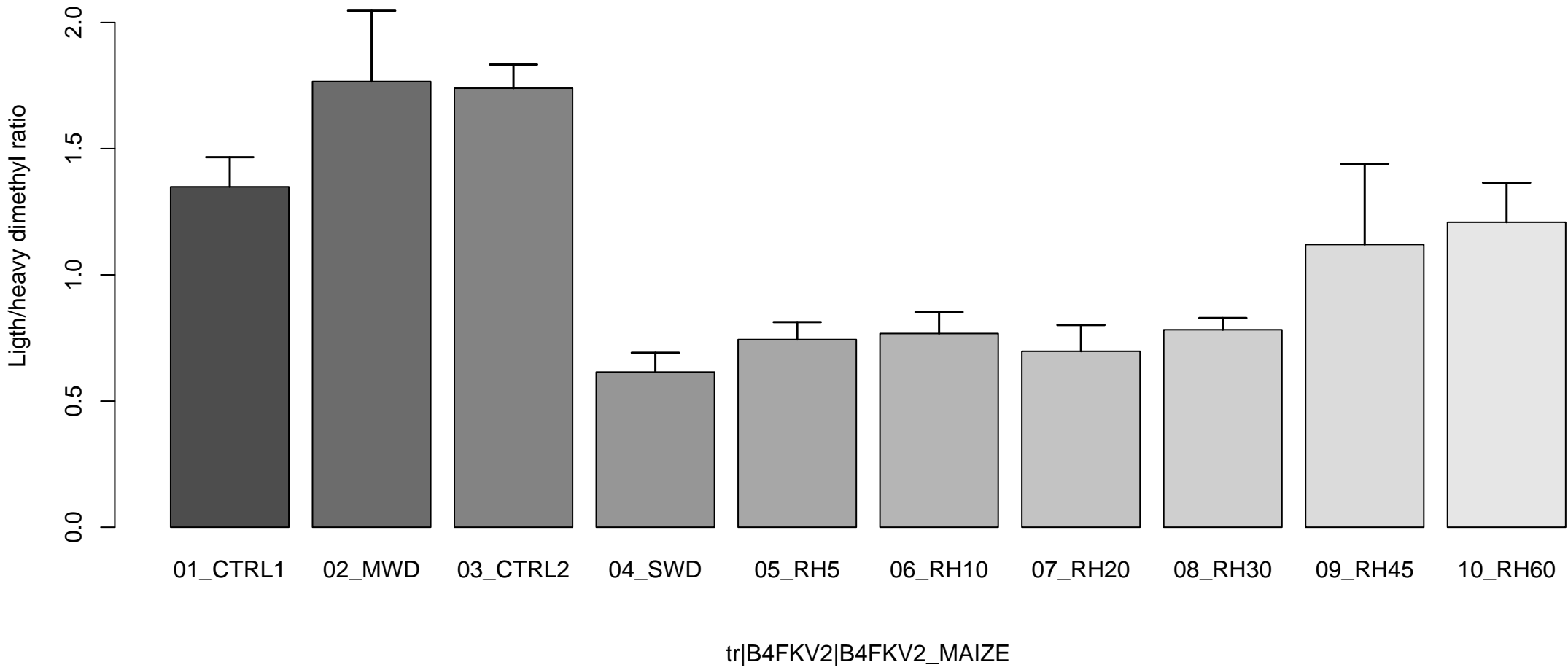


tr|B4FBV8|B4FBV8\_MAIZE

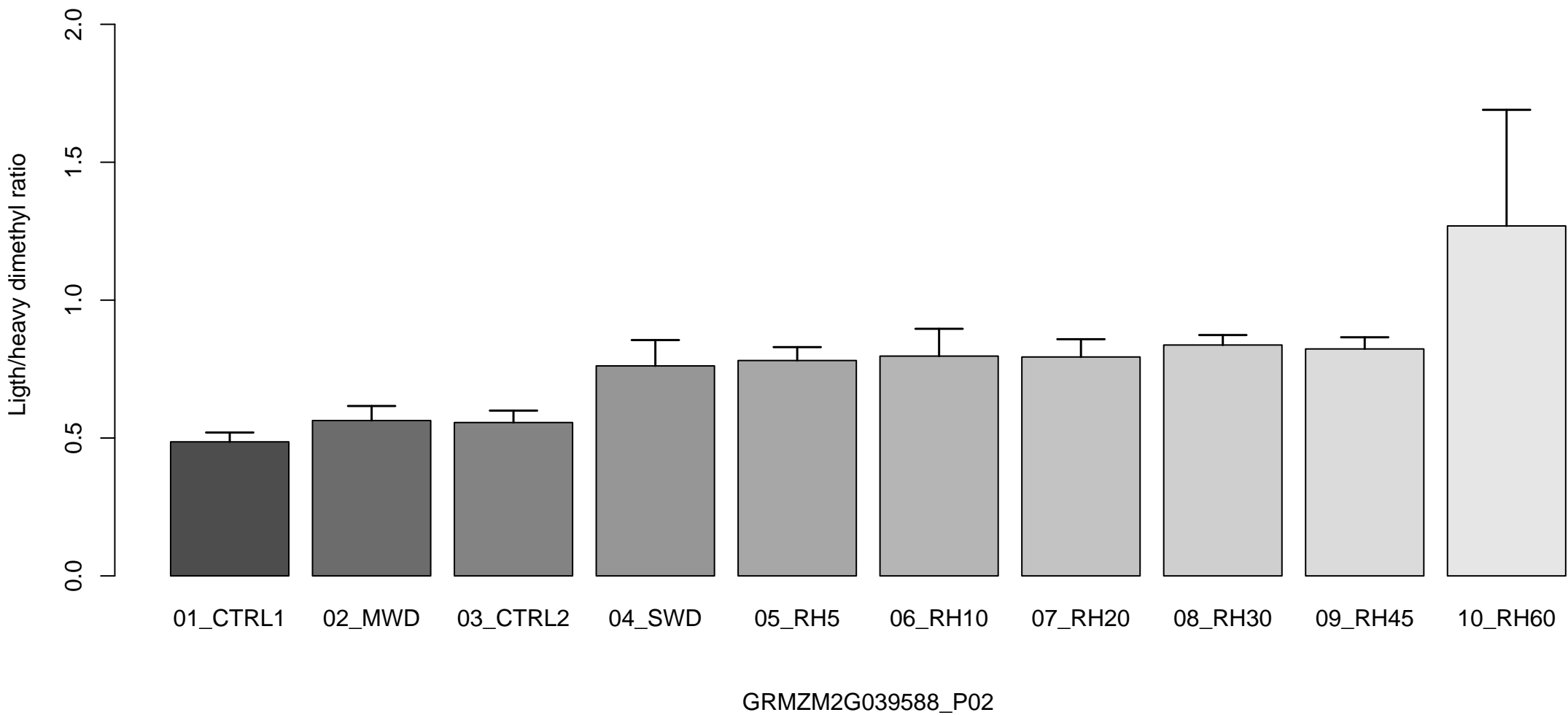
### Putative uncharacterized protein (IPR005819 Histone H5) # S395



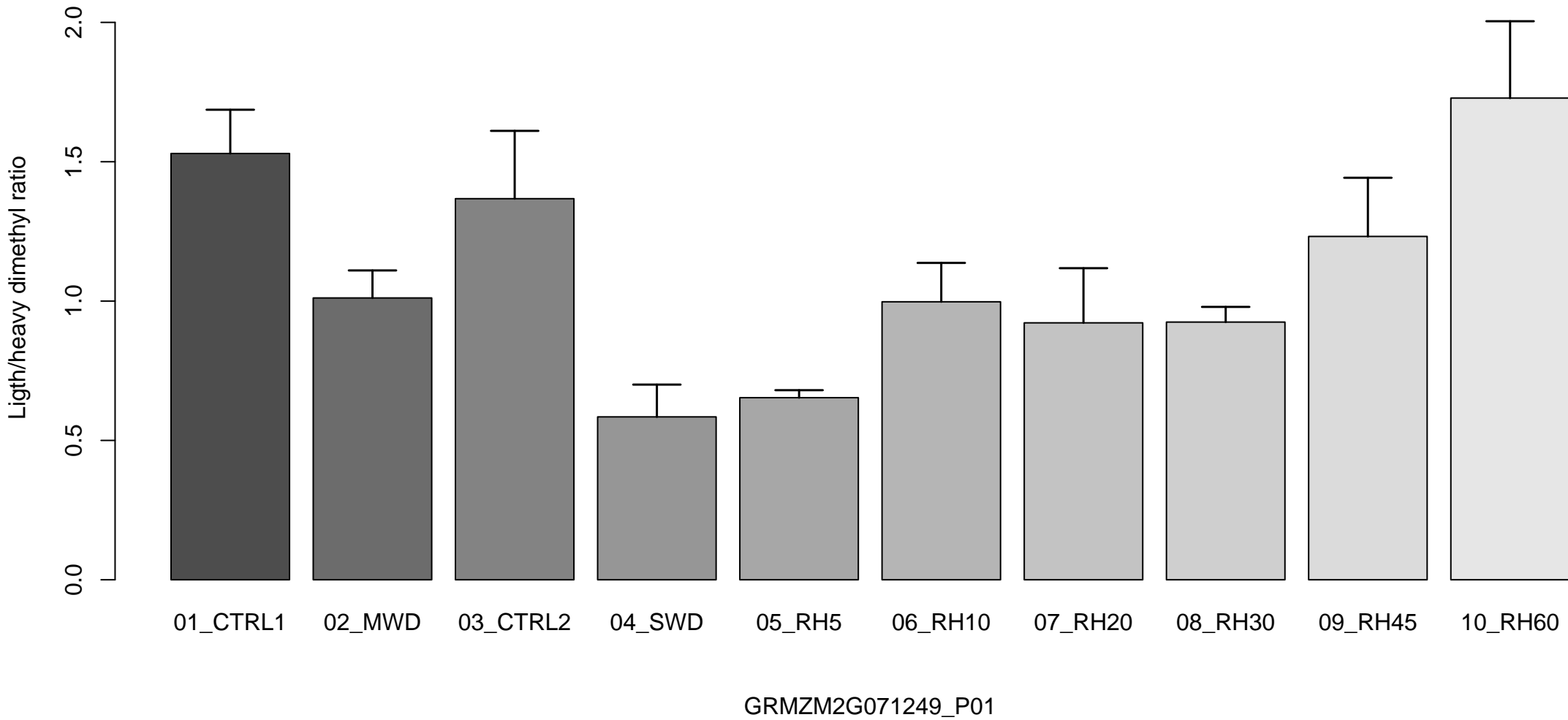
### Transmembrane protein 115 # S310



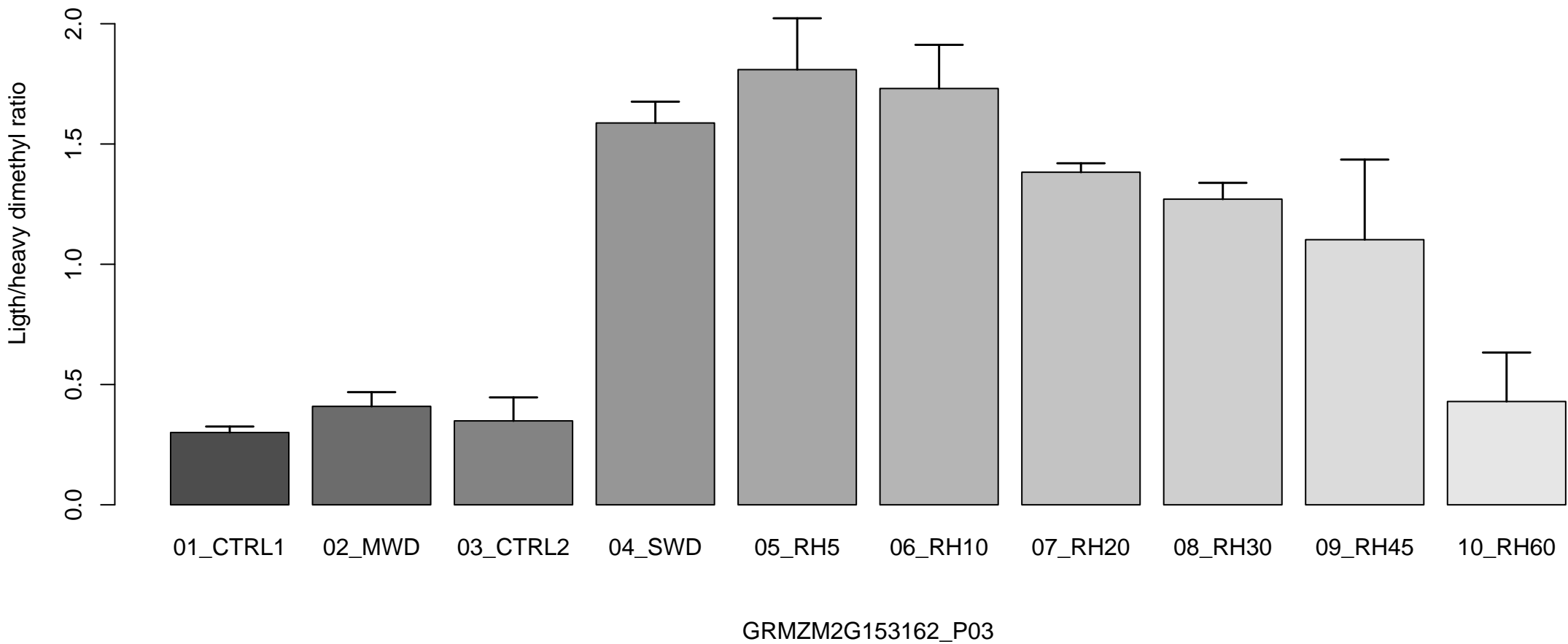
### Galactose mutarotase-like # S158



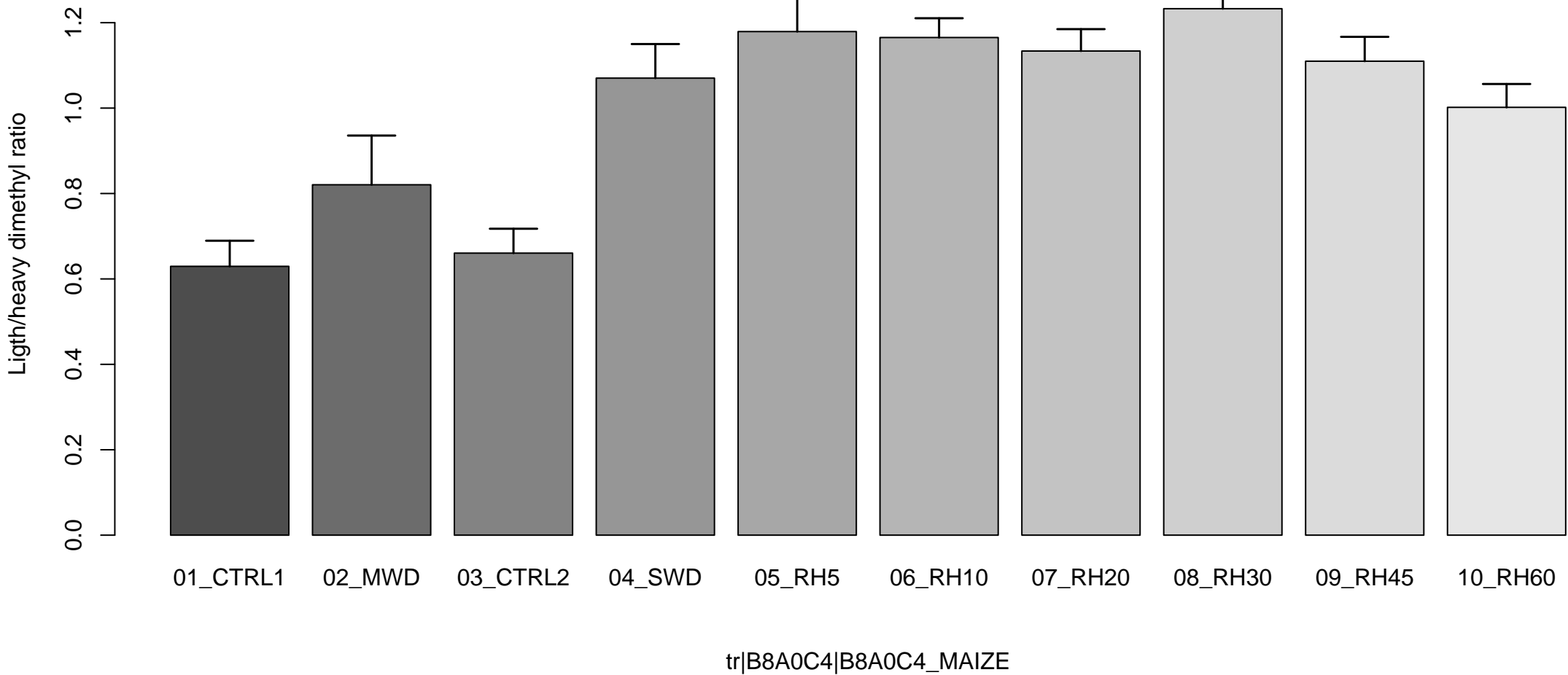
### Proline-rich cell wall protein-like # S49



### Putative eukaryotic translation initiation factor 4G # S183

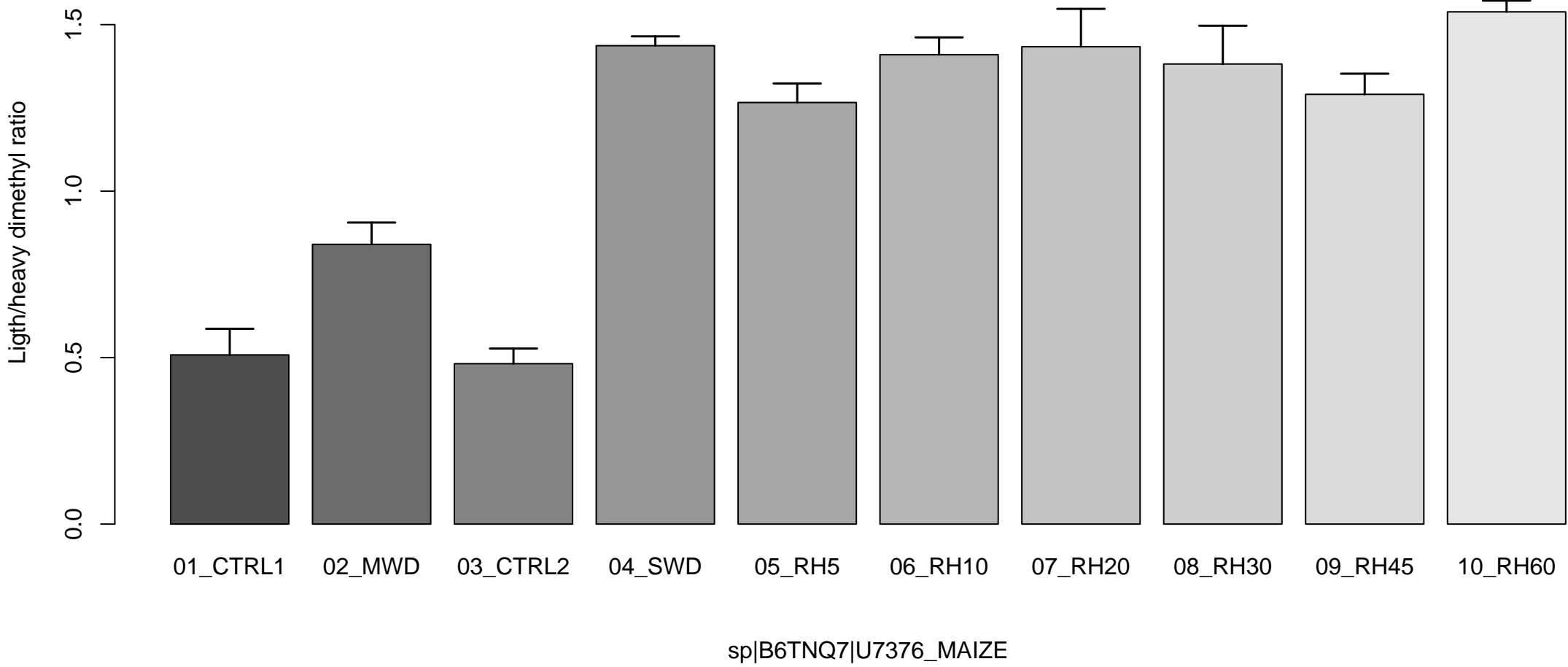


### Villin-3, putative, expressed # S900/T902

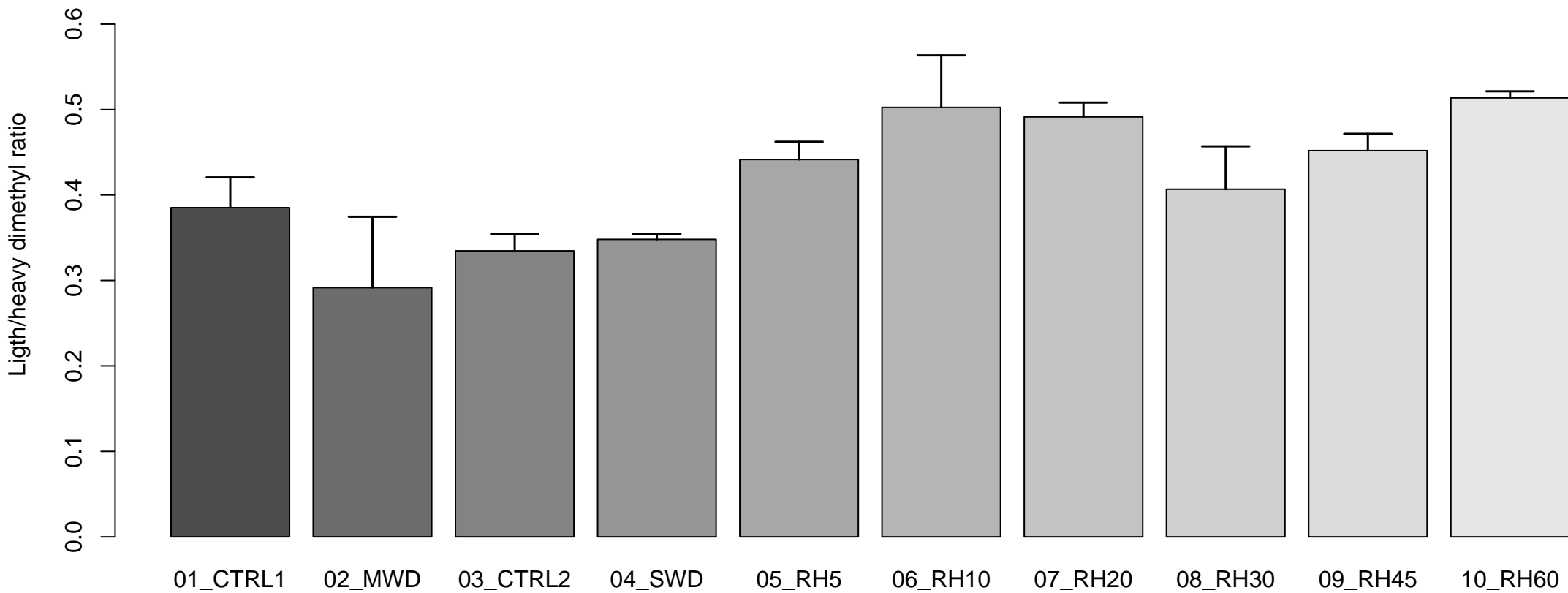




### Ninja-family protein 6 # S83

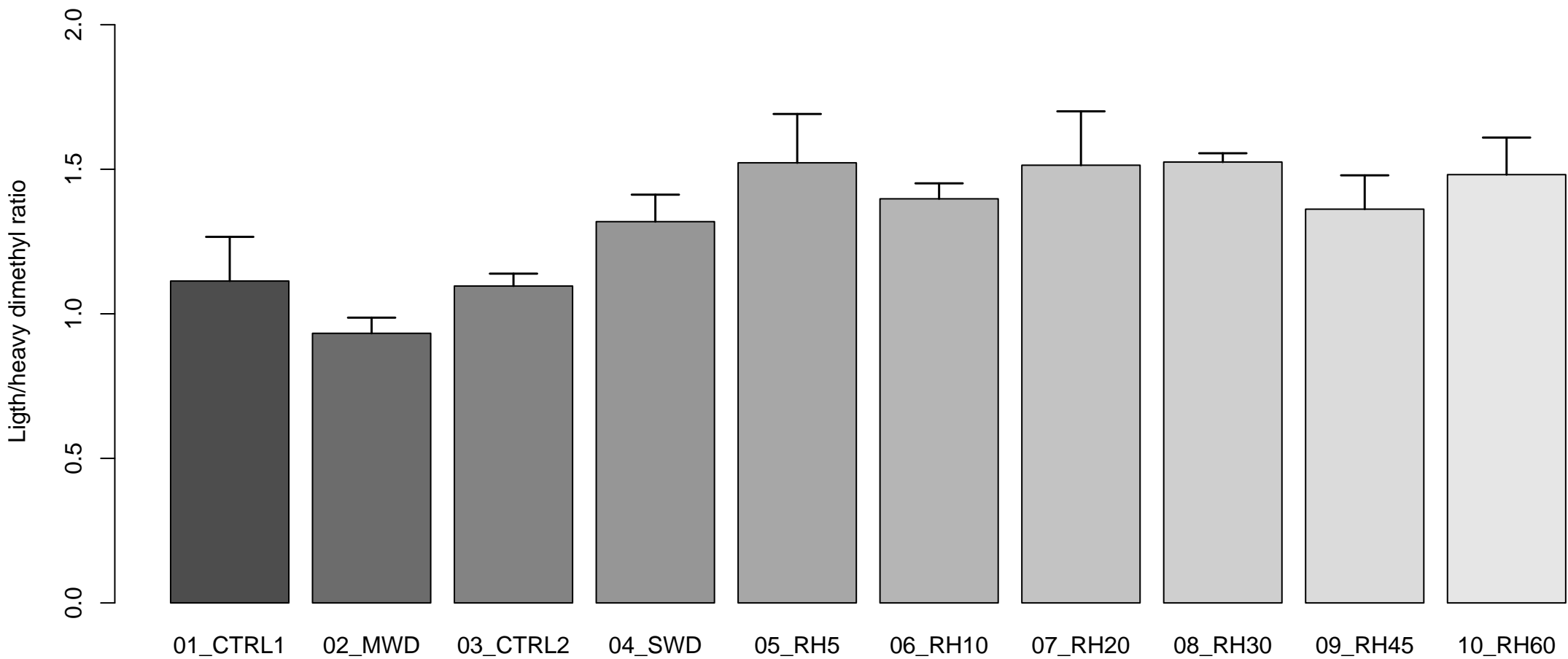


### Serine/threonine-protein kinase PBS1, putative # S157, S161



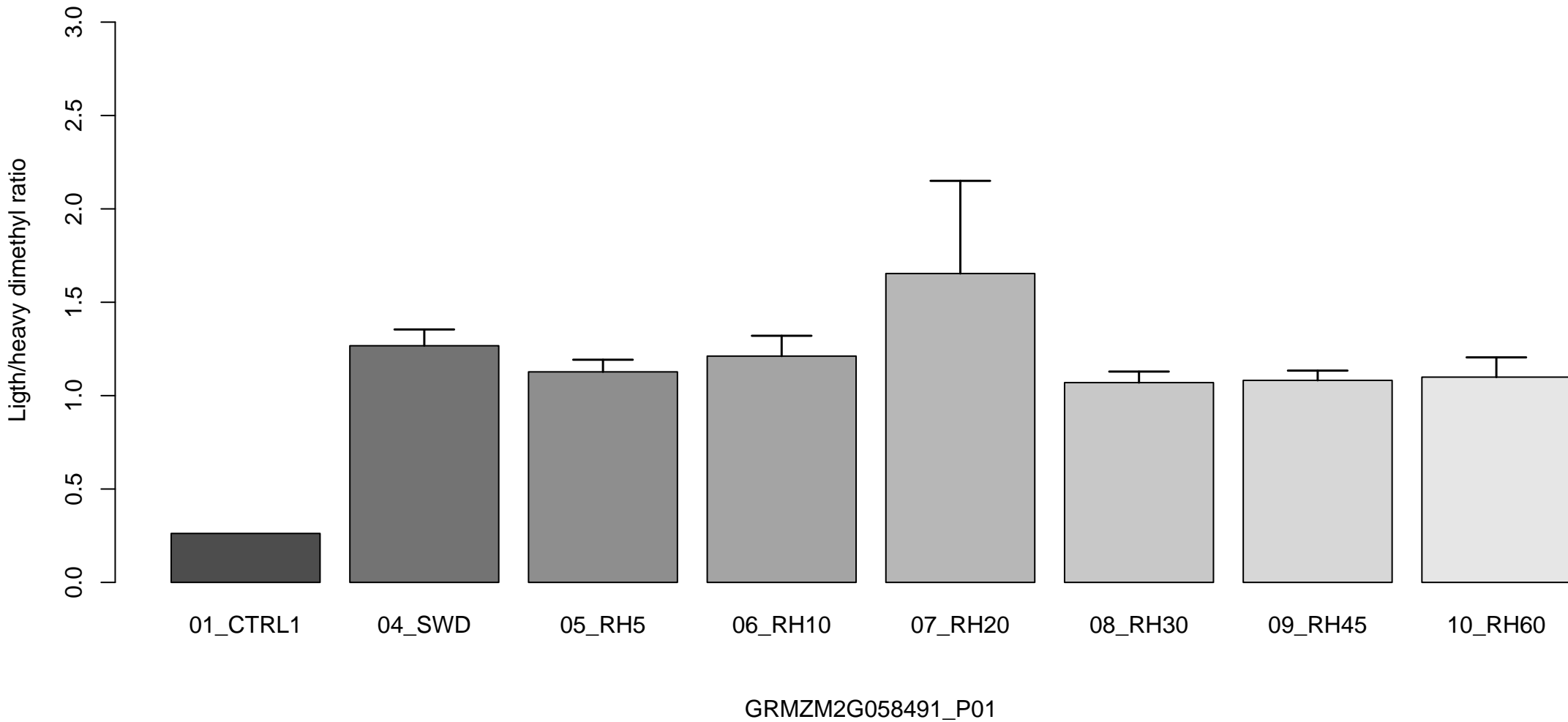
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# Phosphoglucomutase, cytoplasmic 2 # S106

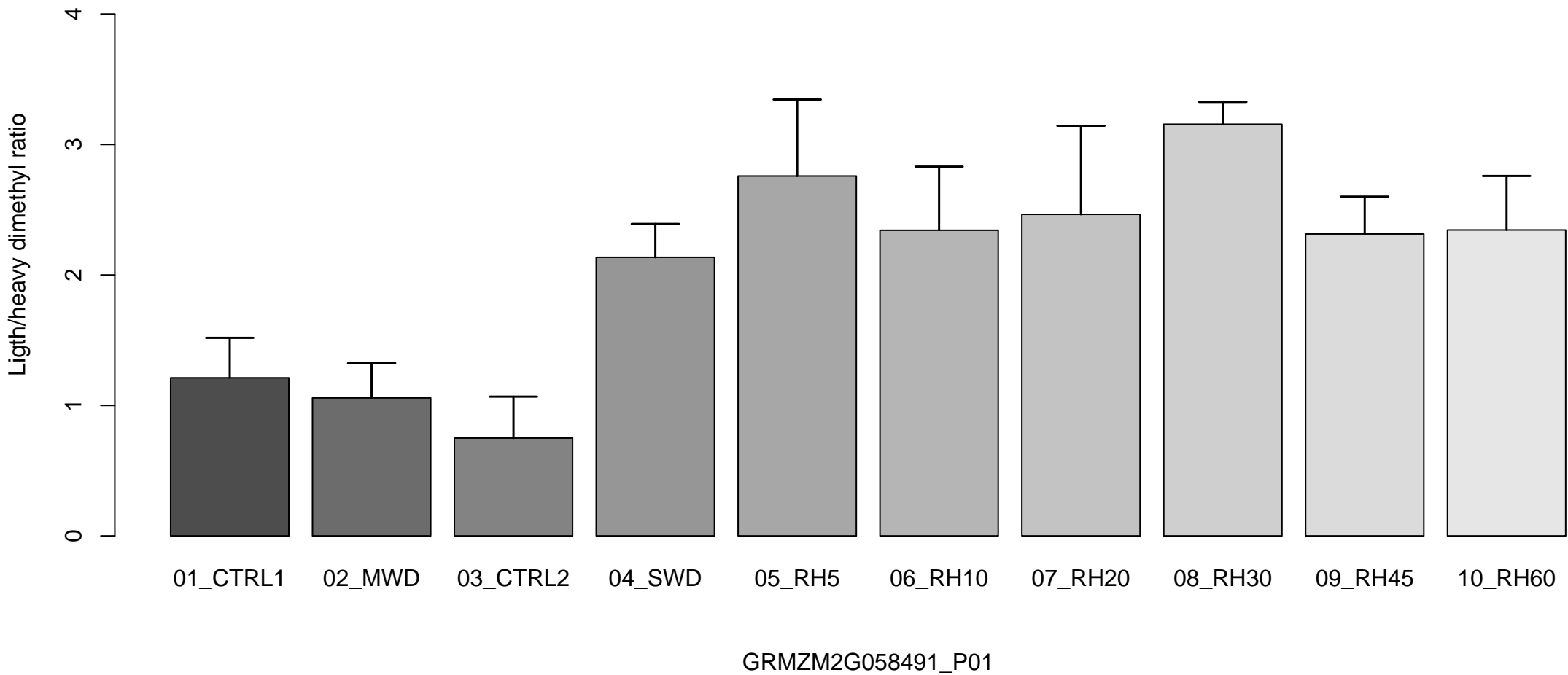


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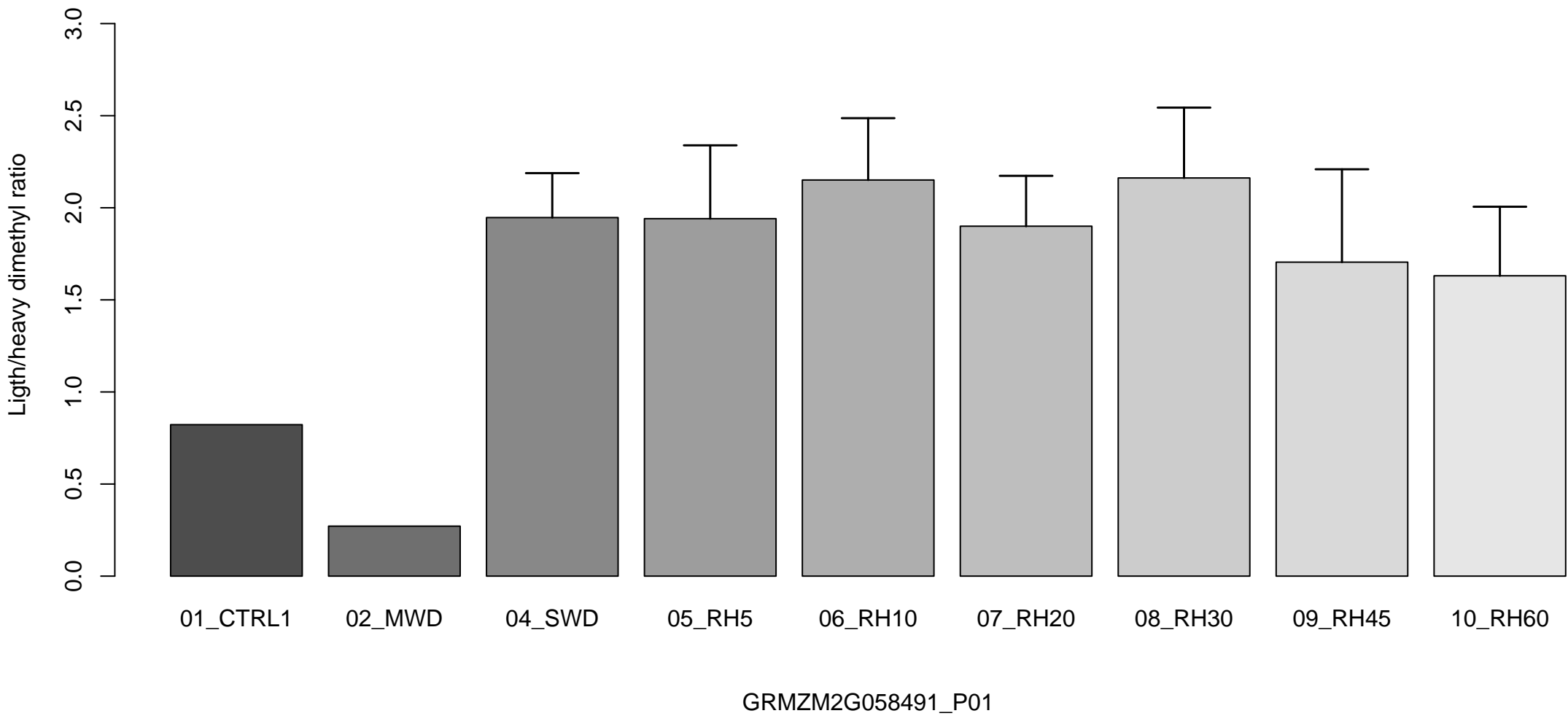
### AAA-type ATPase family protein # S217



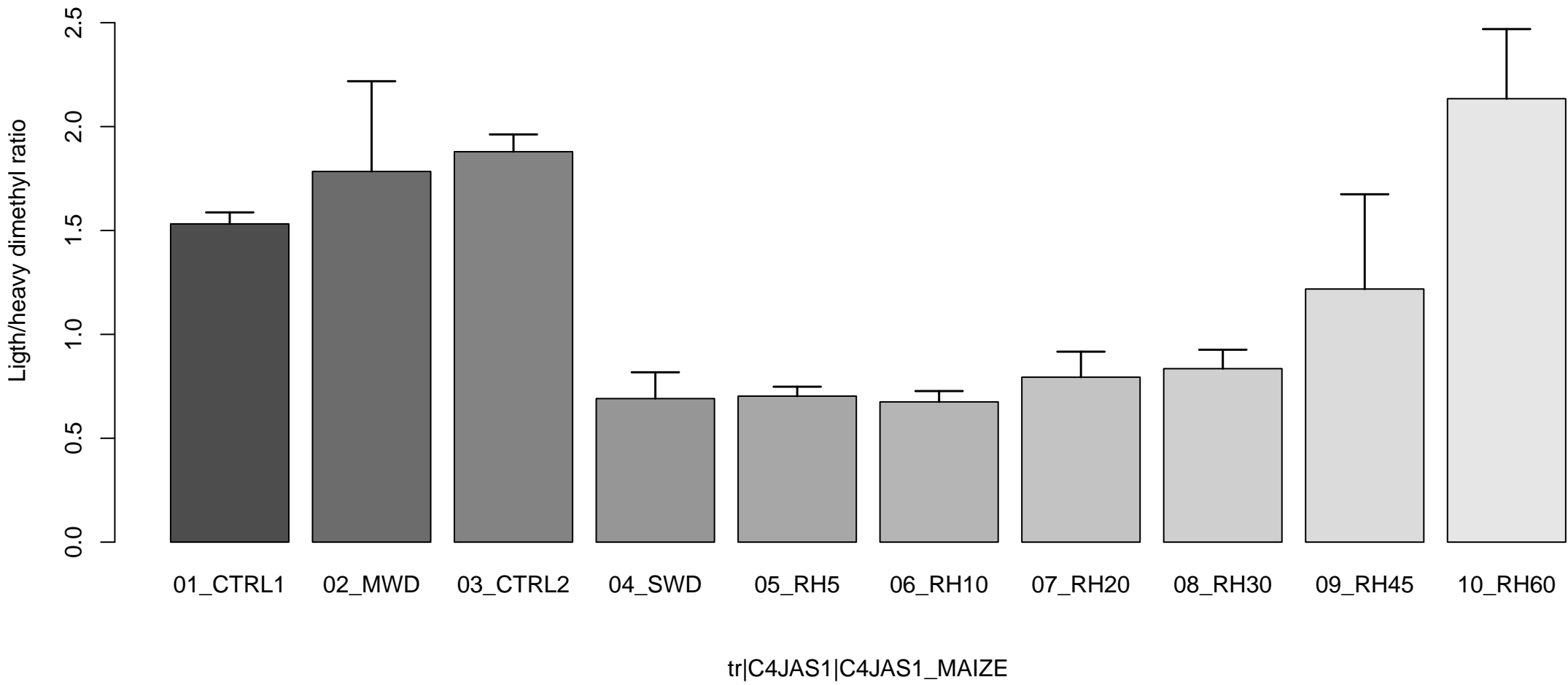
### AAA-type ATPase family protein # S205



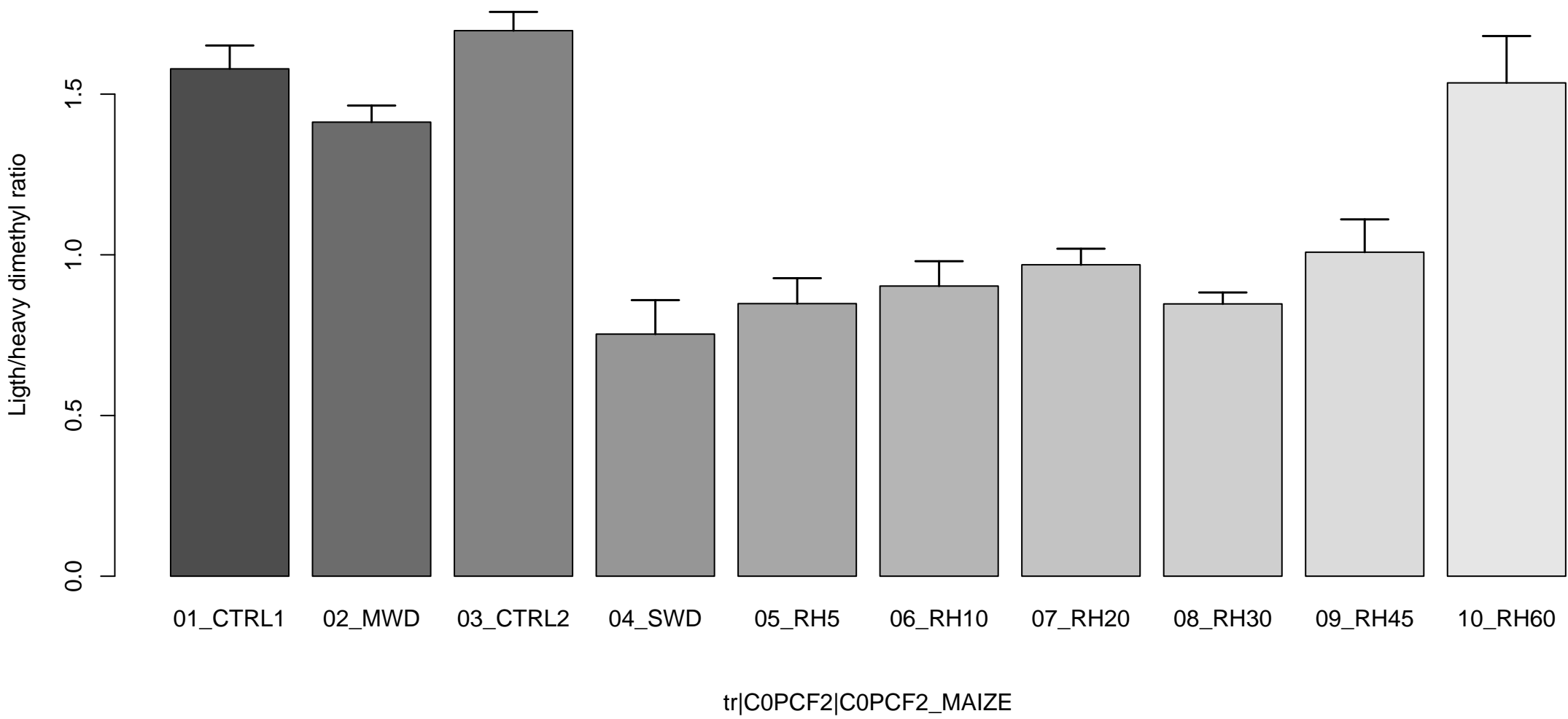
### AAA-type ATPase family protein # S162



### C2 domain containing protein # S401

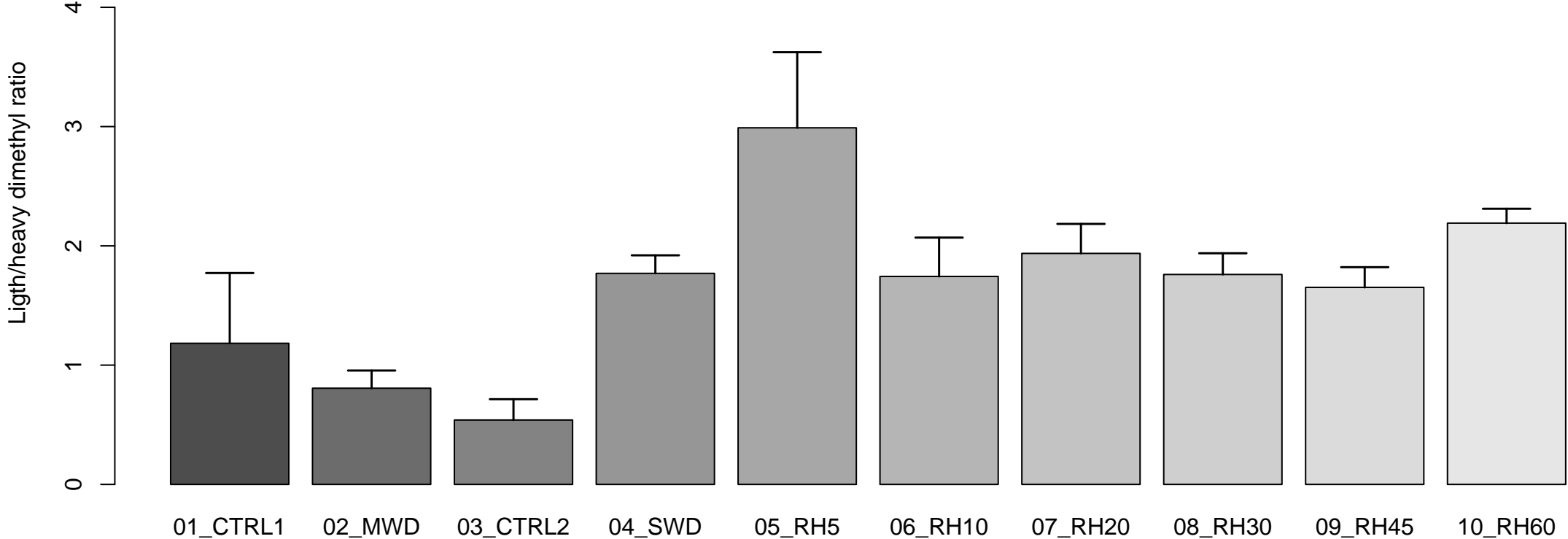


# Golgi SNARE 12 protein # S56



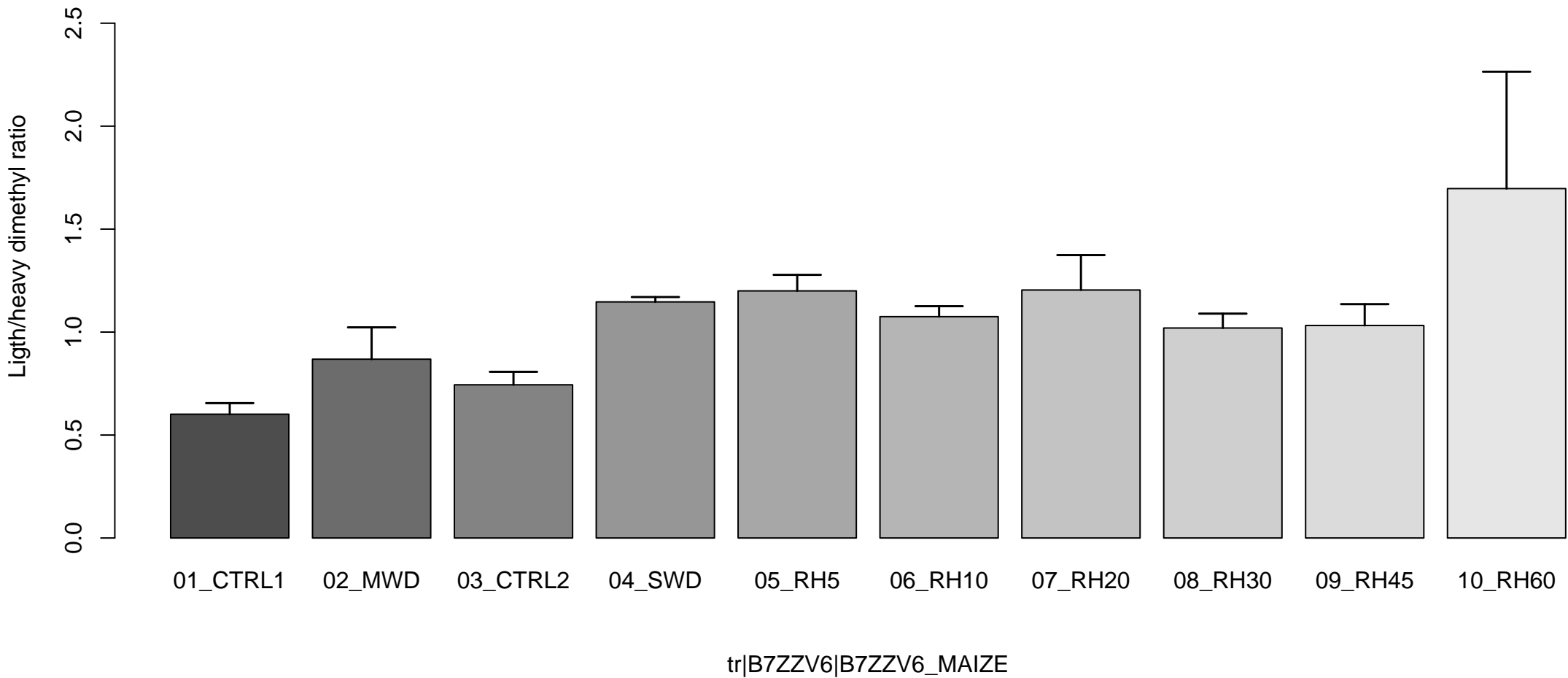


Ninja-family protein 5 # S105

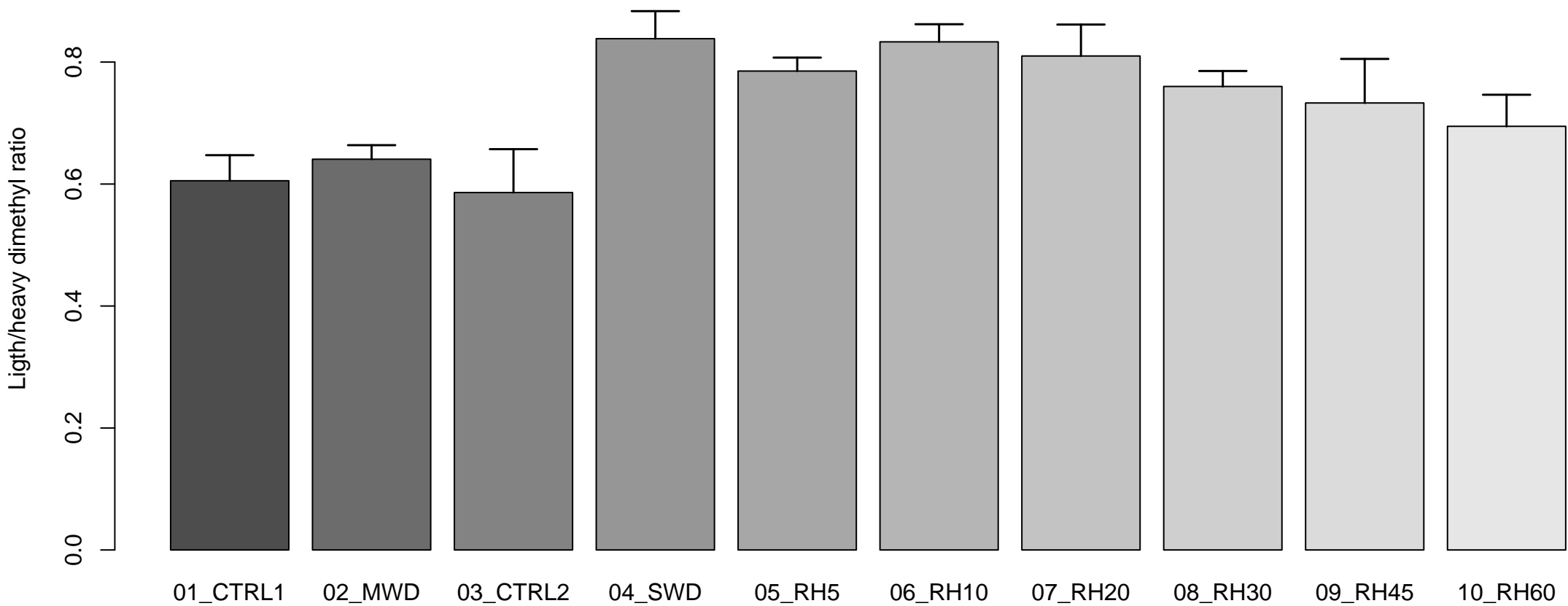


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### Putative pumilio/Mpt5 family RNA-binding protein # S210

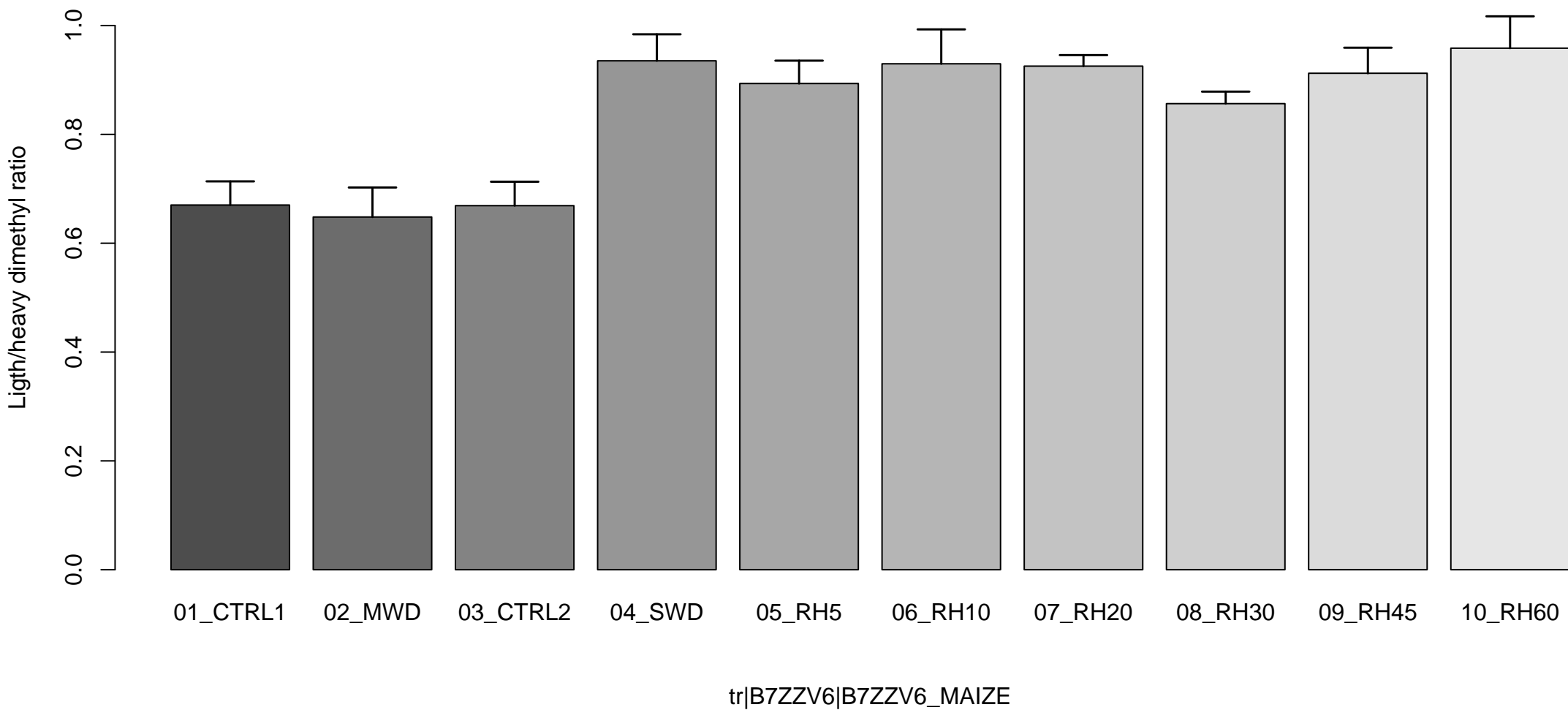


### Sel1-like repeat # S620/S643

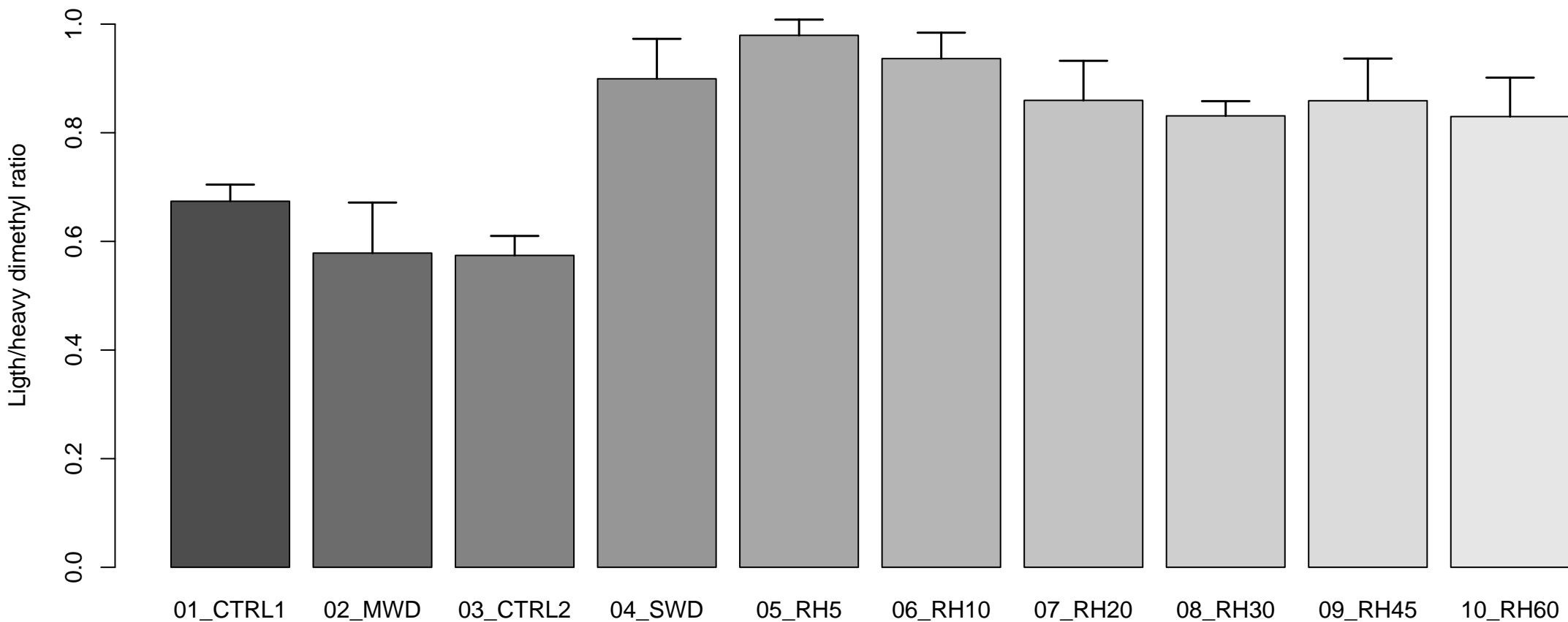


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### Putative pumilio/Mpt5 family RNA-binding protein # S249/S250

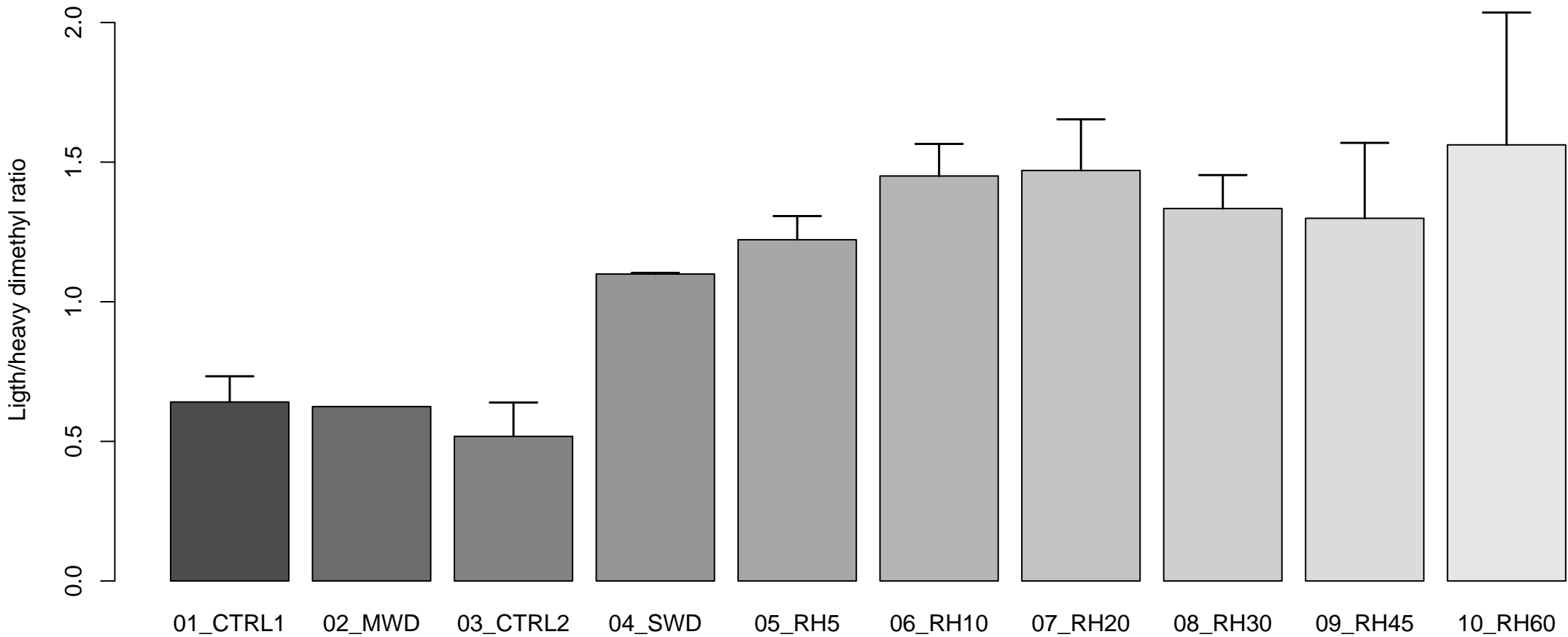


### Putative pumilio/Mpt5 family RNA-binding protein # S245/S246/S247



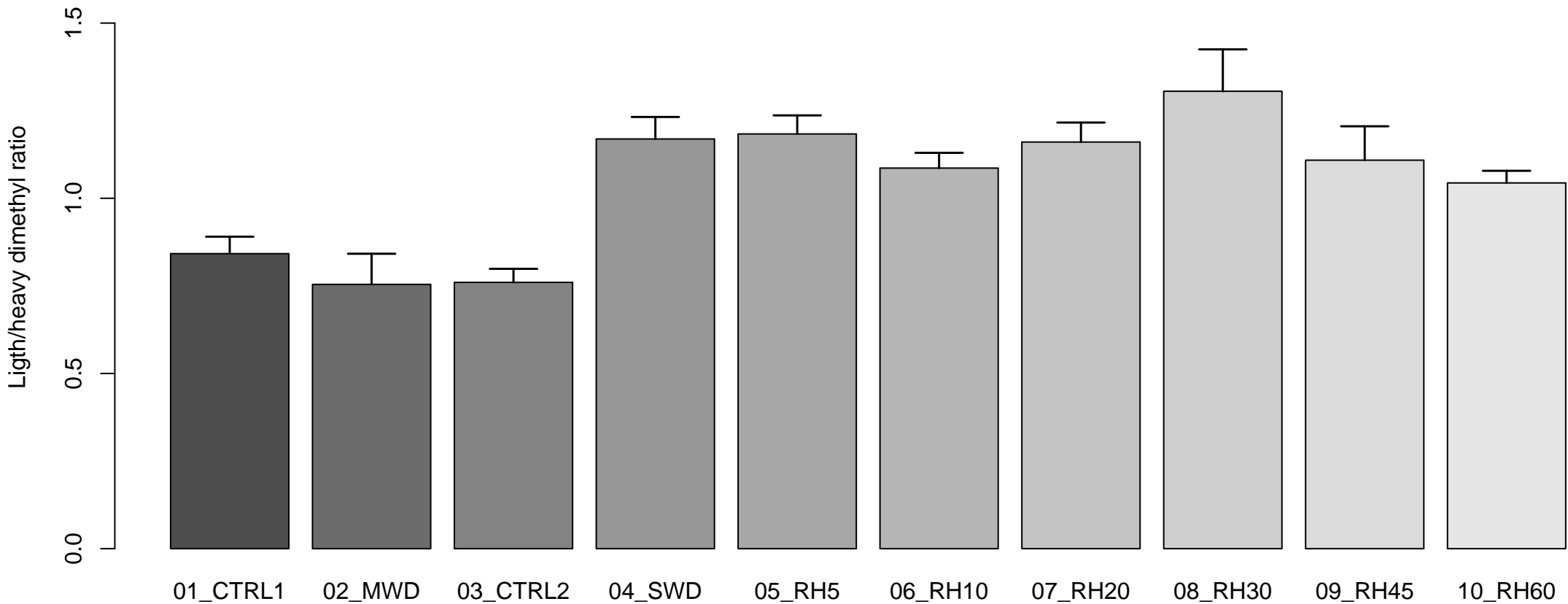
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### Esterase # Y17



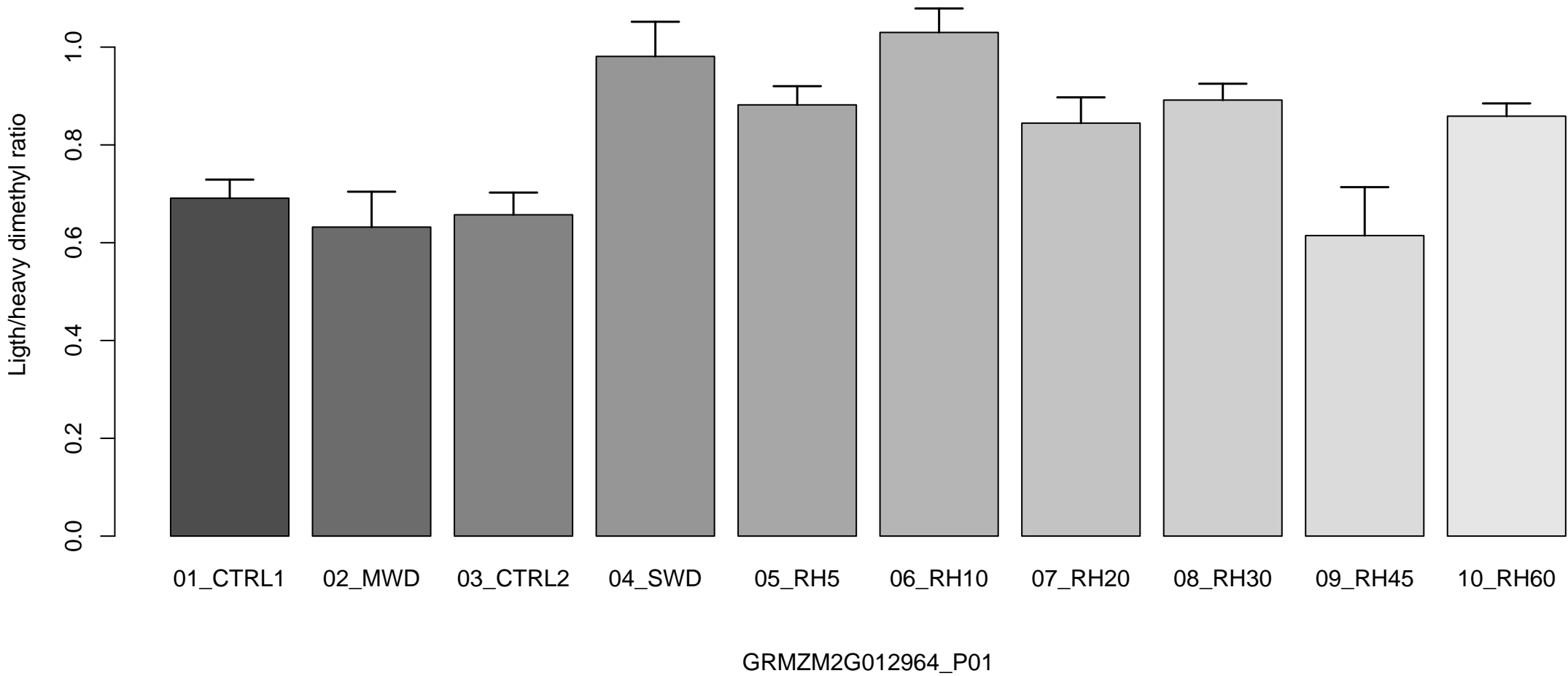
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# AIR9 protein # S59



GRMZM2G012031\_P01

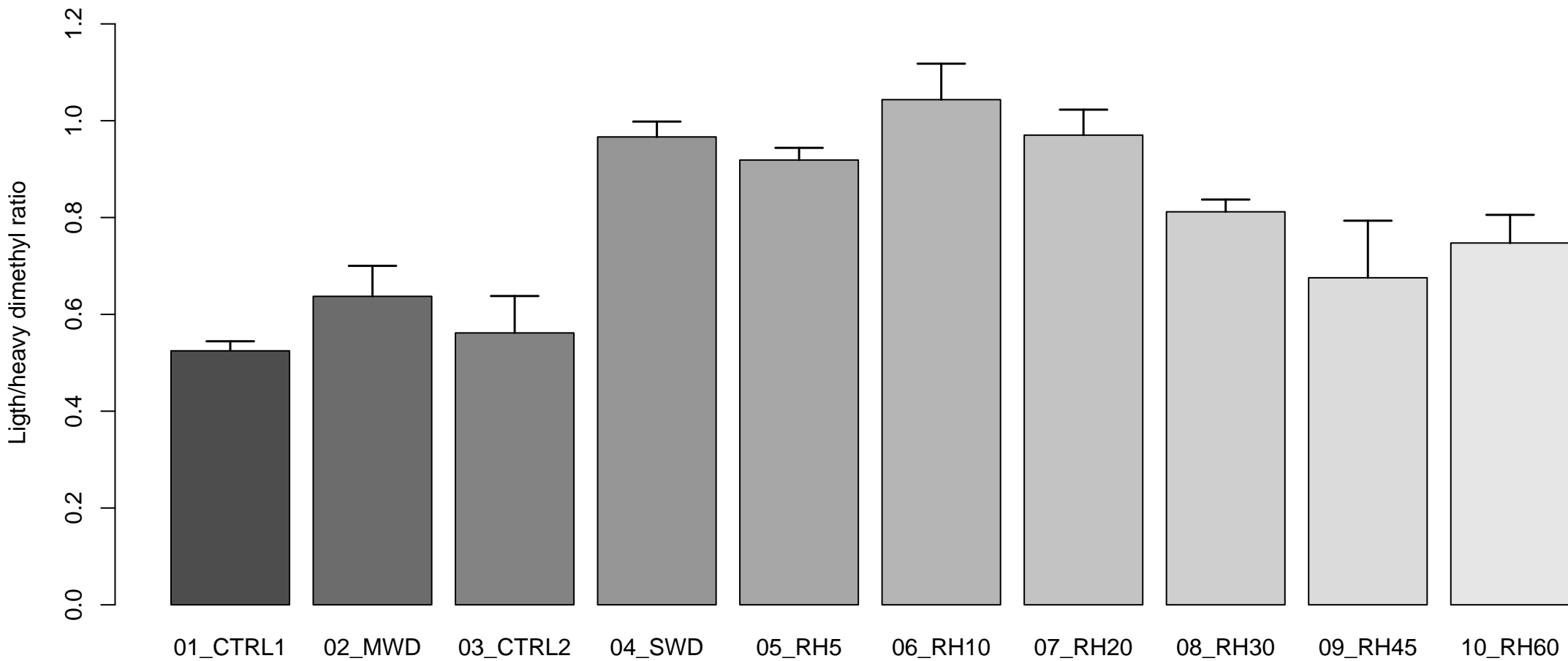
### Putative pumilio/Mpt5 family RNA-binding protein # S202



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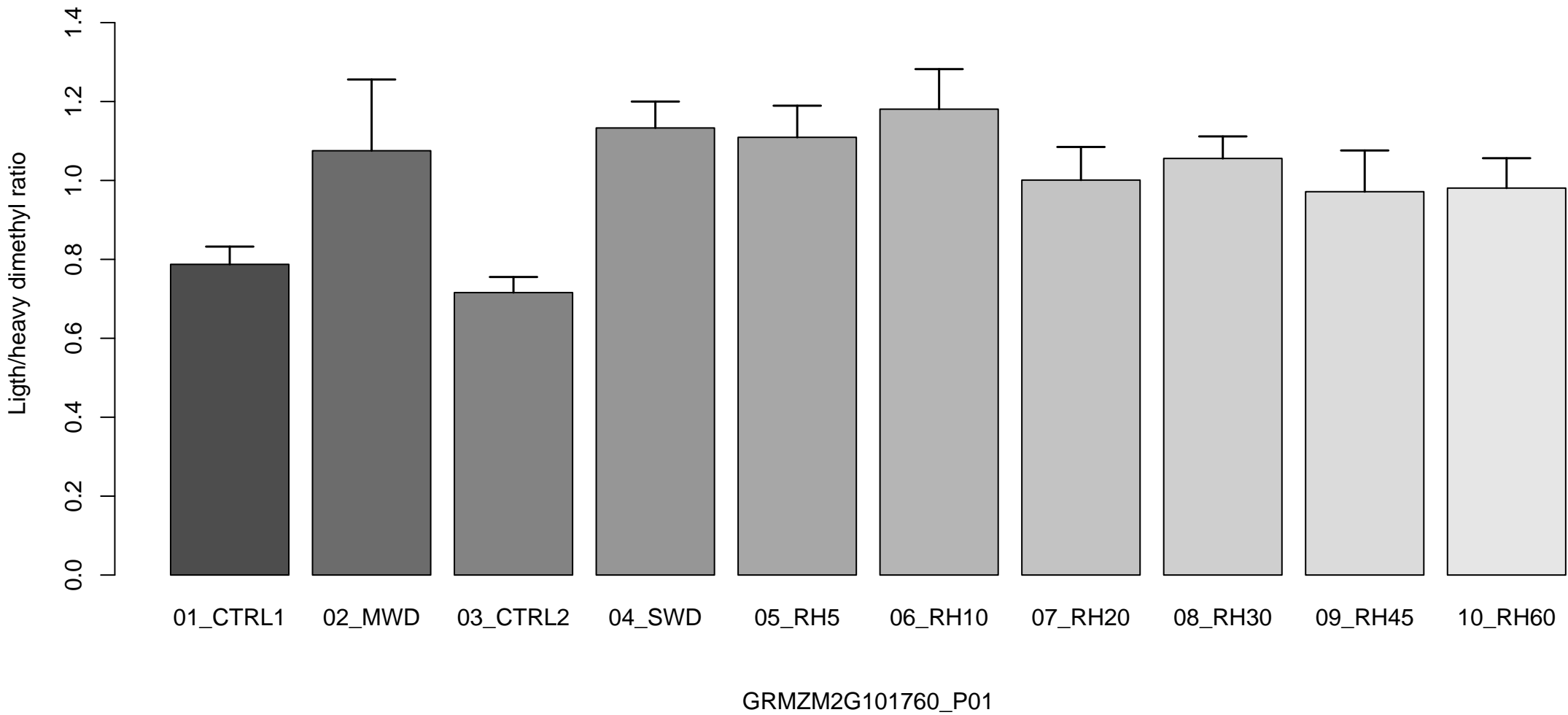


### Putative pumilio/Mpt5 family RNA-binding protein # S31/T35

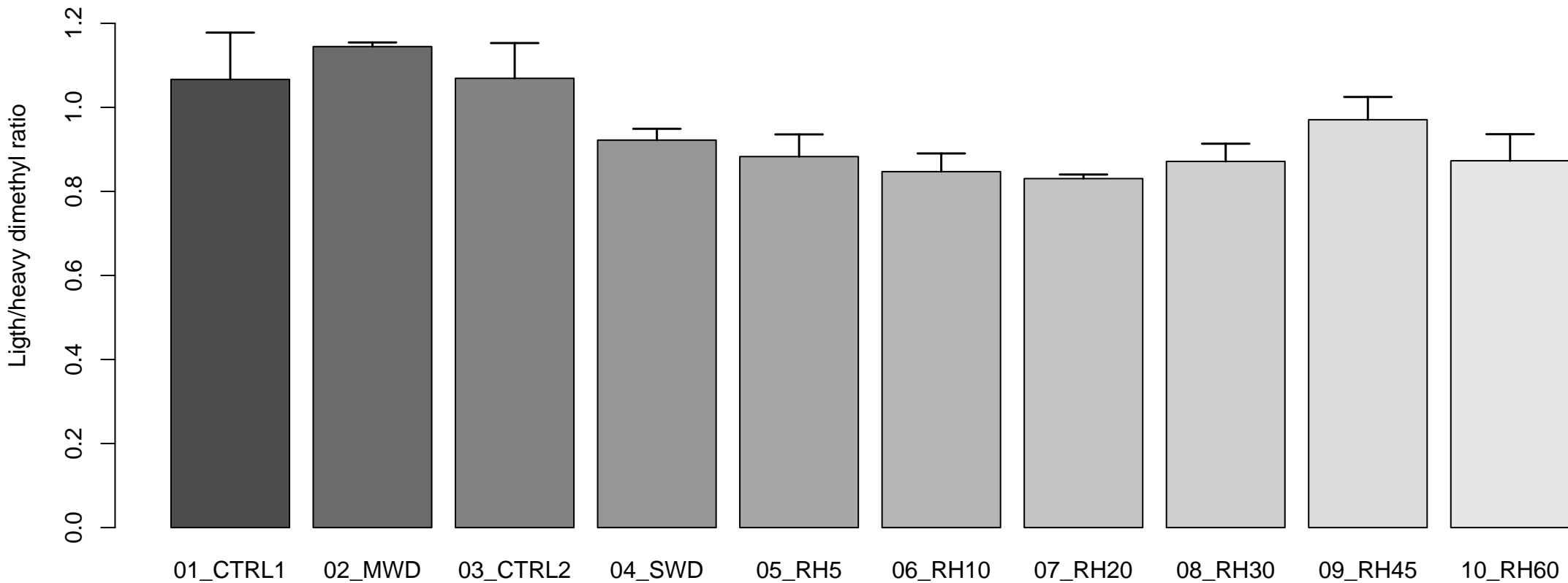


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### Putative uncharacterized protein # S177

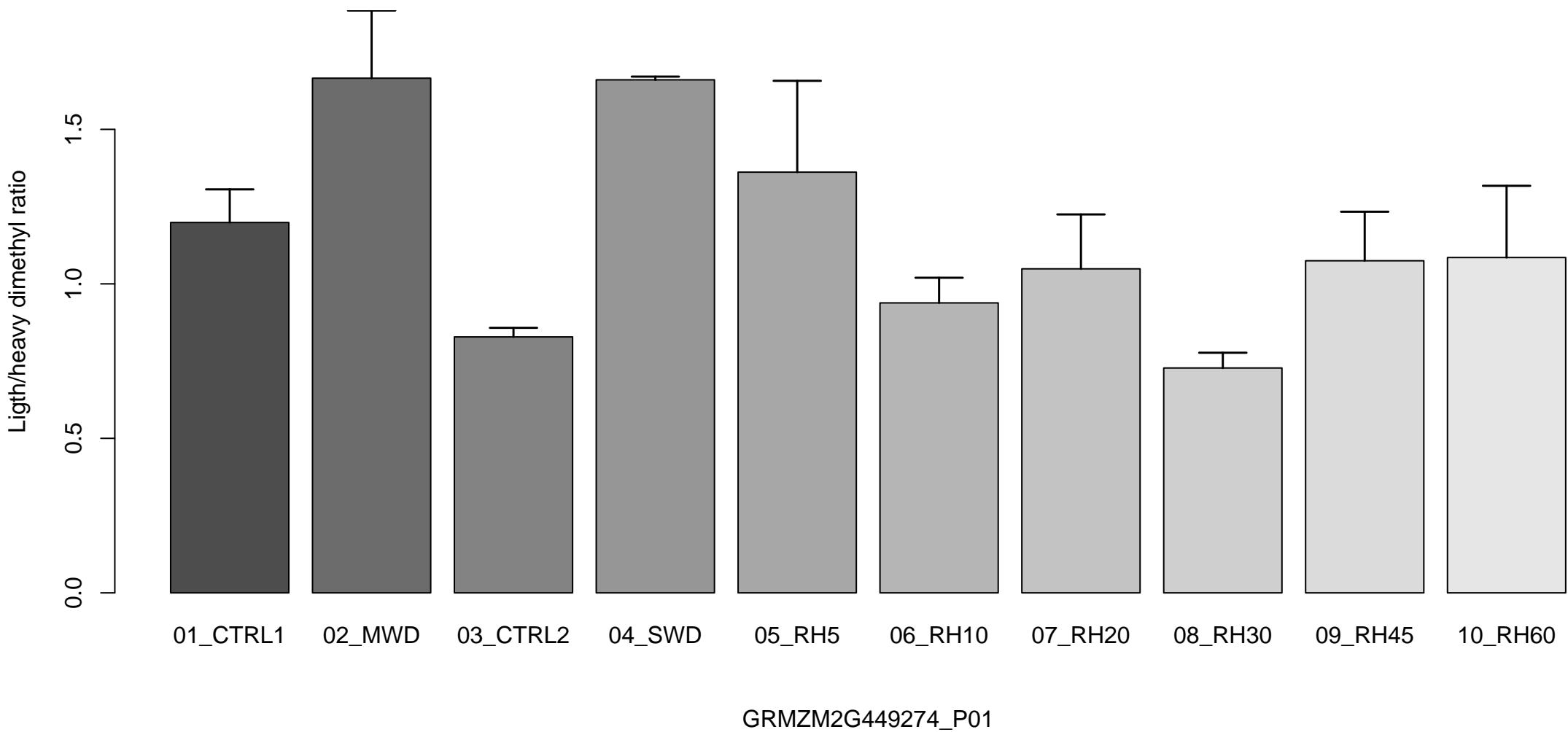


### Putative uncharacterized protein # S166

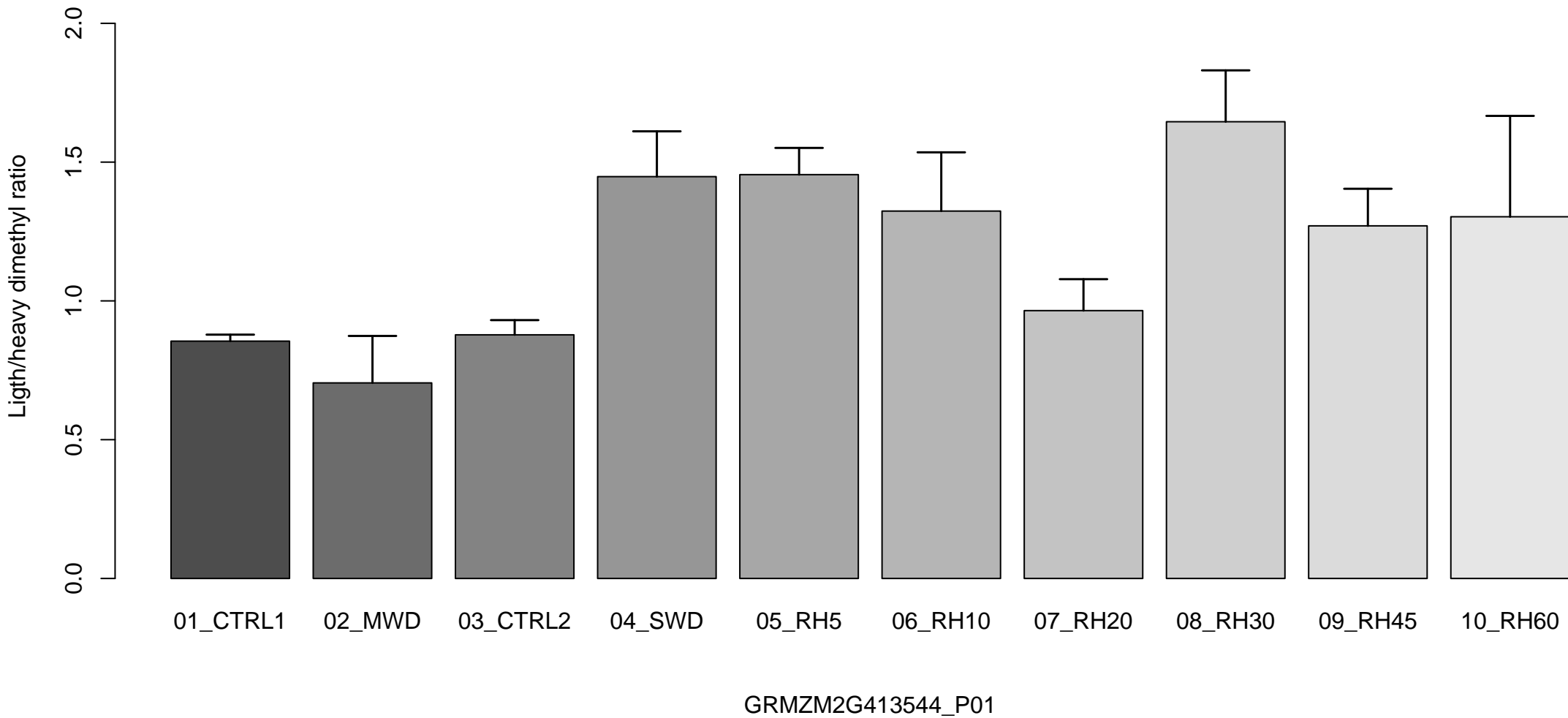


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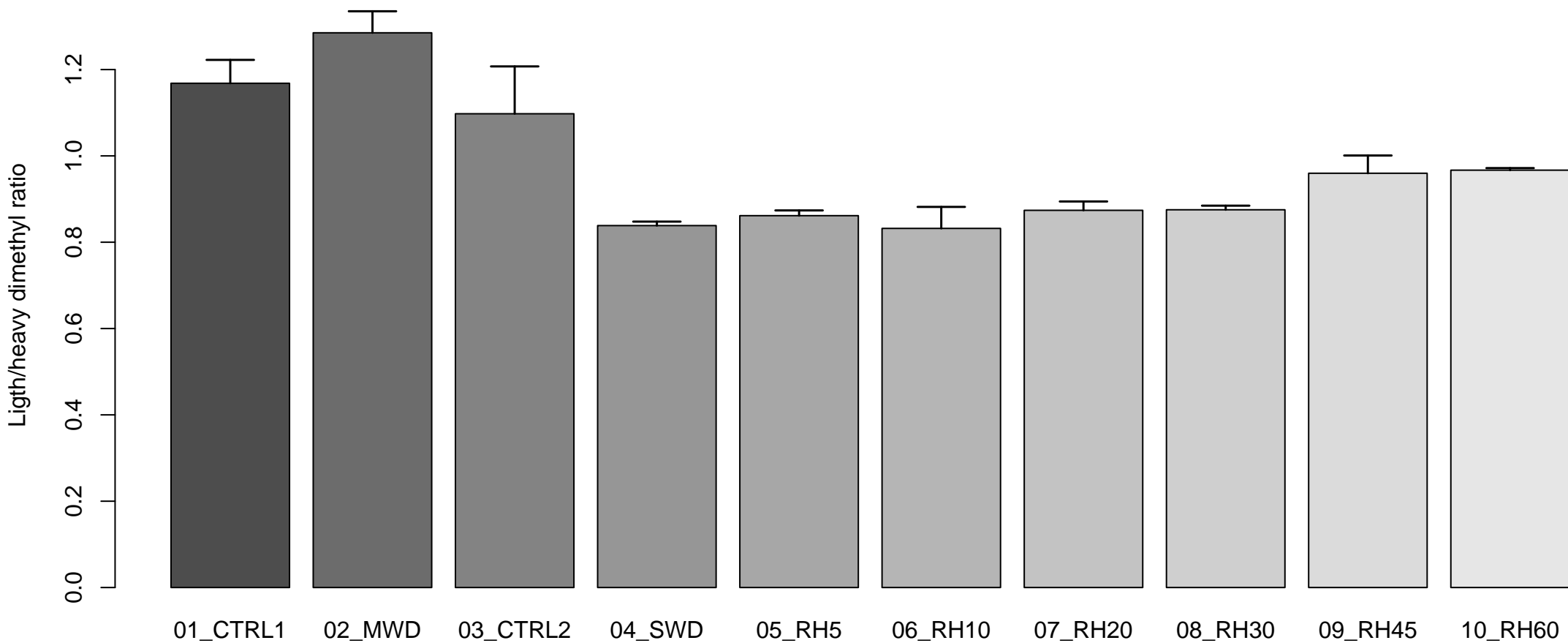
### Putative uncharacterized protein # S163, T188



### Putative Ste-20 related kinase, 3'-partial # S351

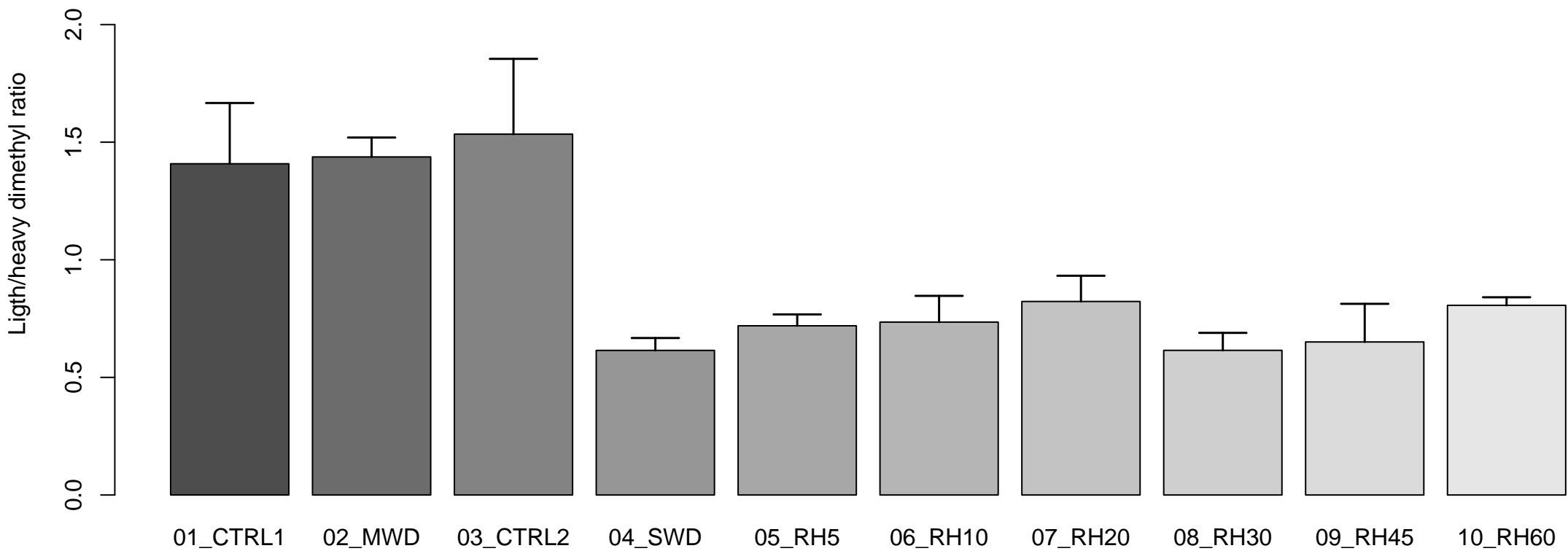


### ATPase, AAA family protein, expressed # T707



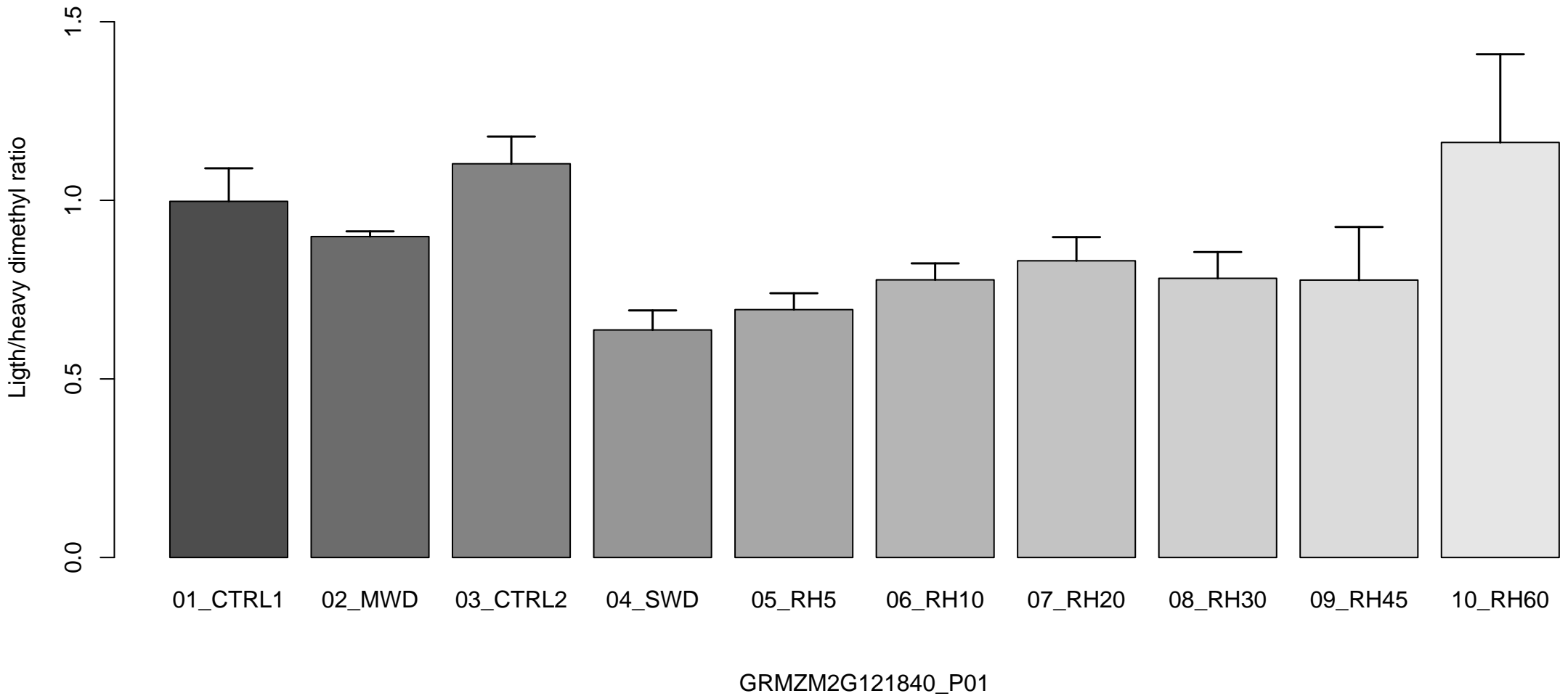
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# Cellulose synthase-2 # S158/S165



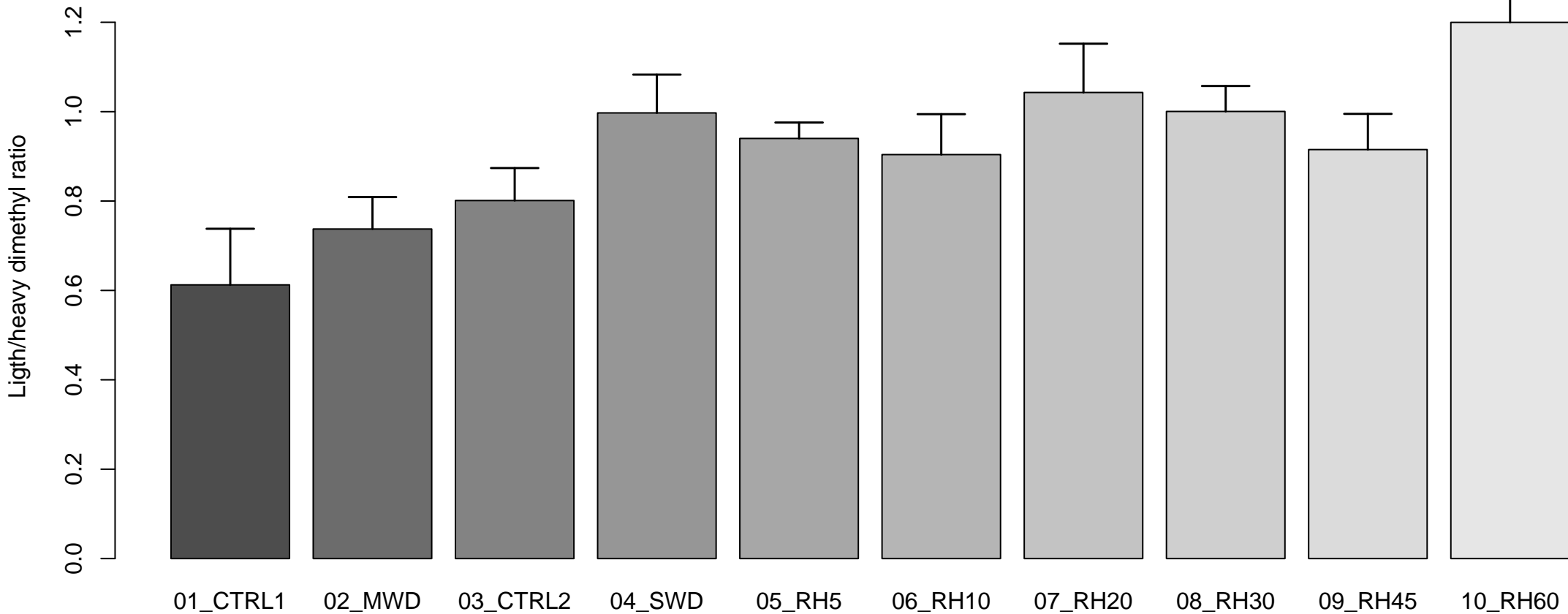
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## HemK methyltransferase family member 2 # S255



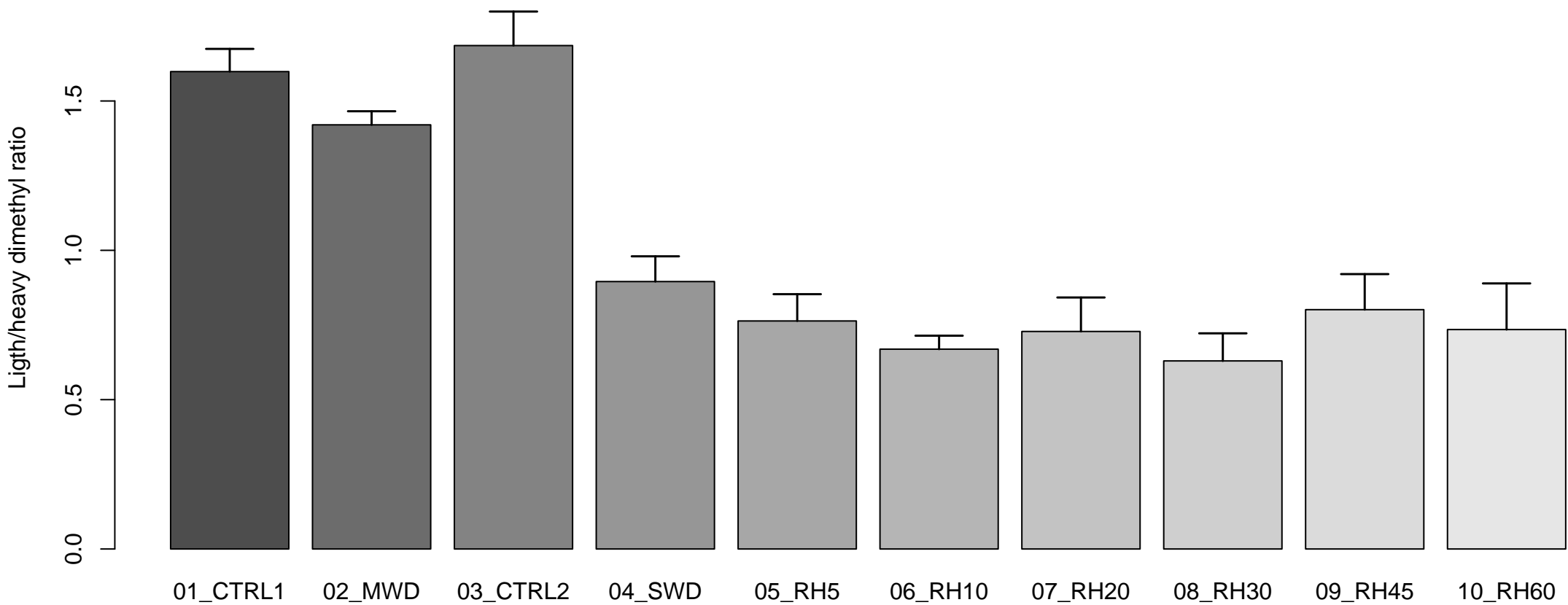


### DNL zinc finger family protein # T12, S21



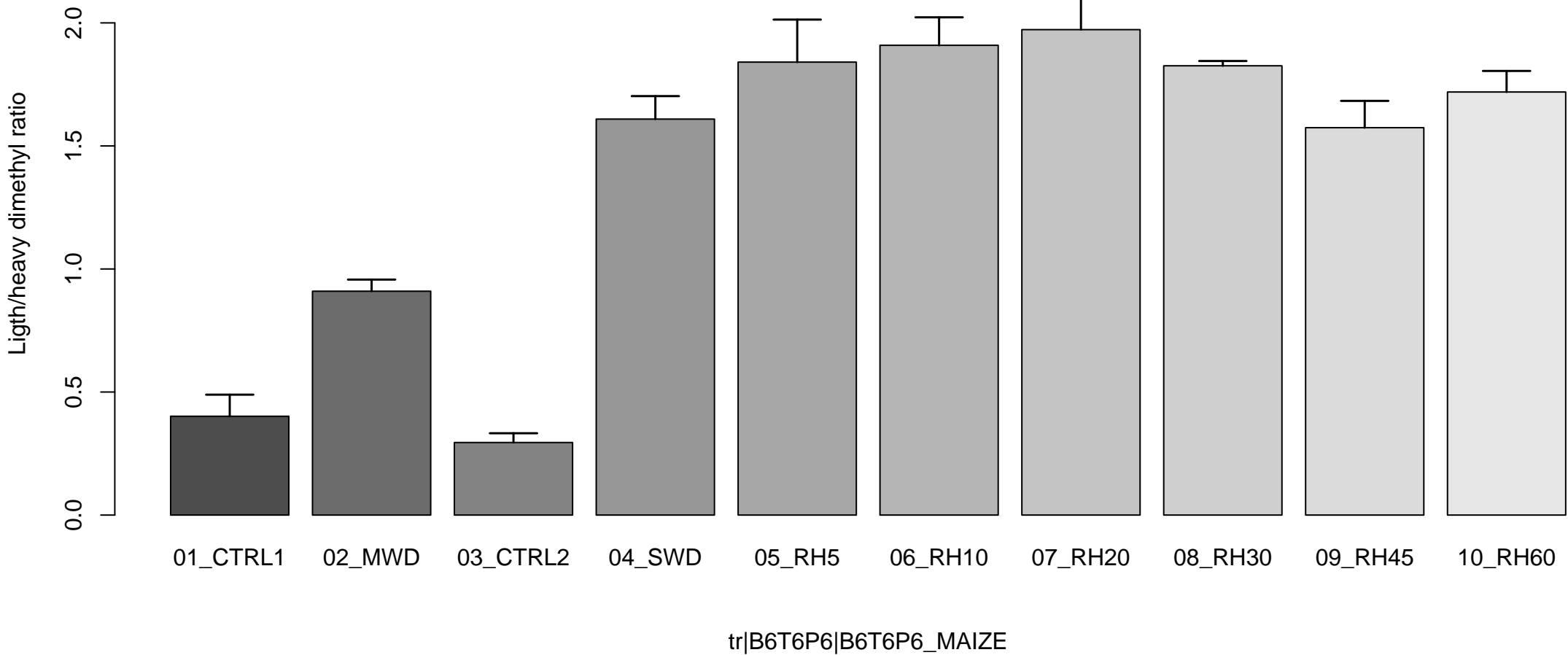
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### Putative uncharacterized protein # S19/T21/T23

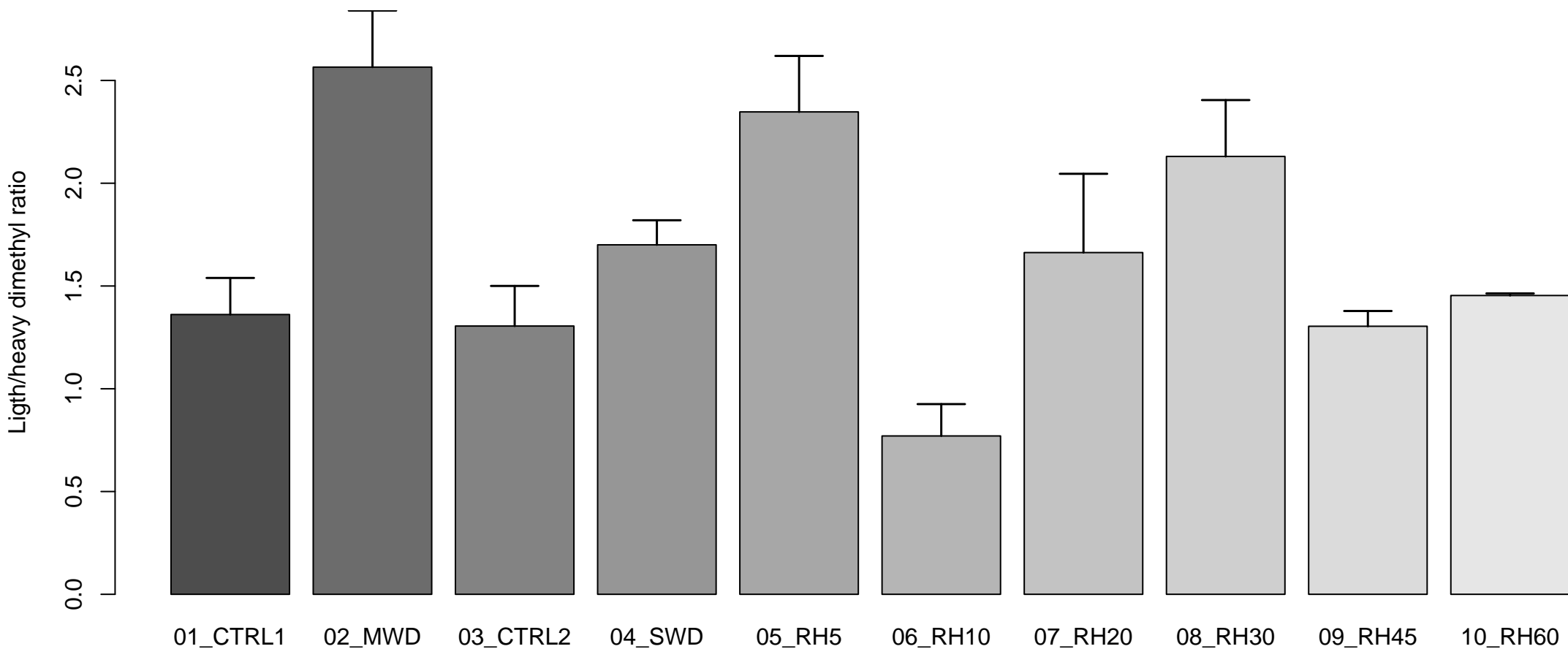


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### Serine/threonine-protein kinase SAPK10 # S173

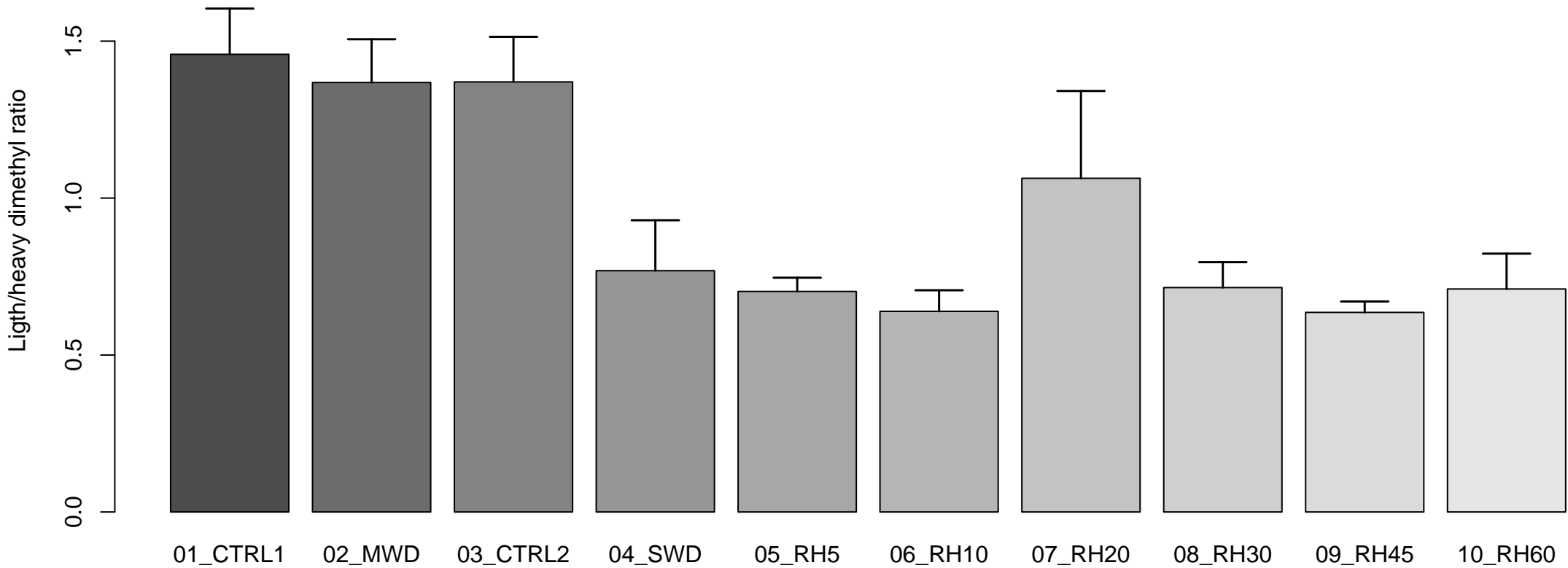


# Naringenin,2-oxoglutarate 3-dioxygenase # S17



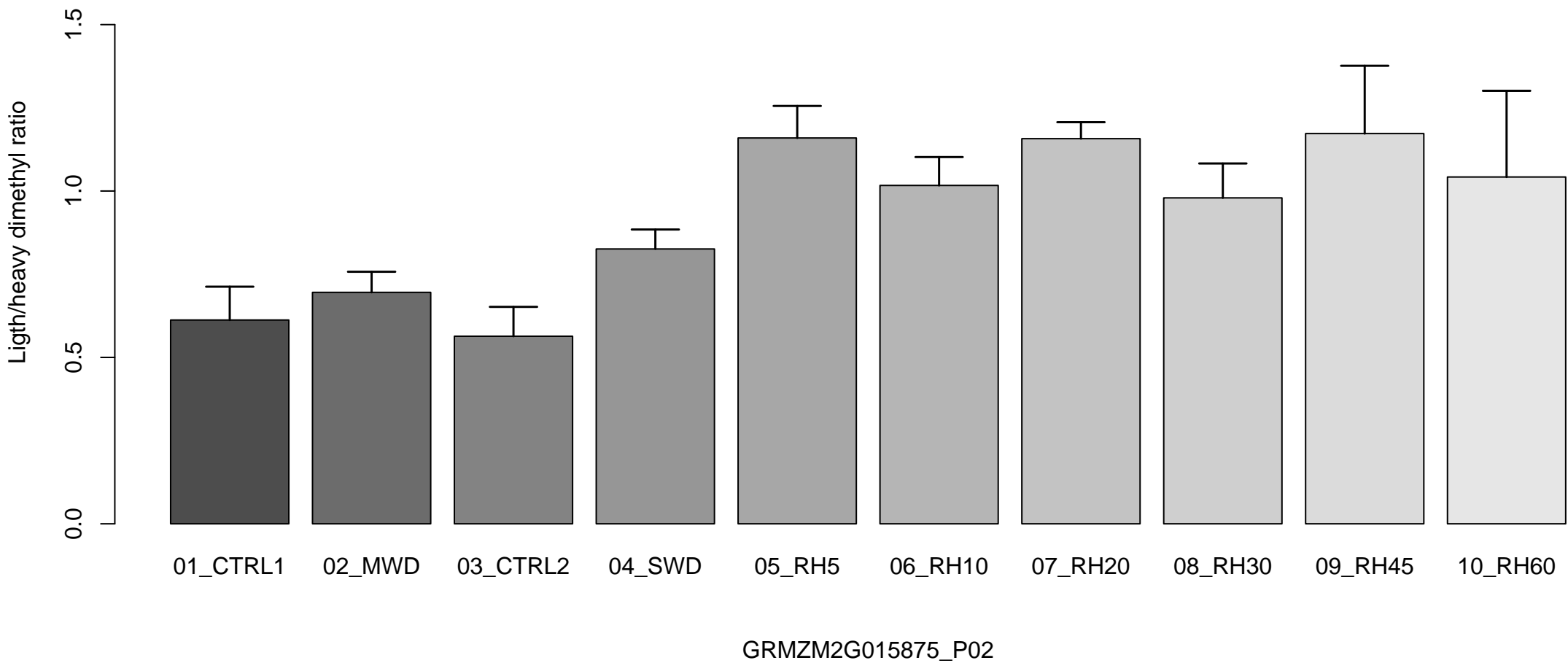
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### Putative uncharacterized protein Sb06g021700 # S717

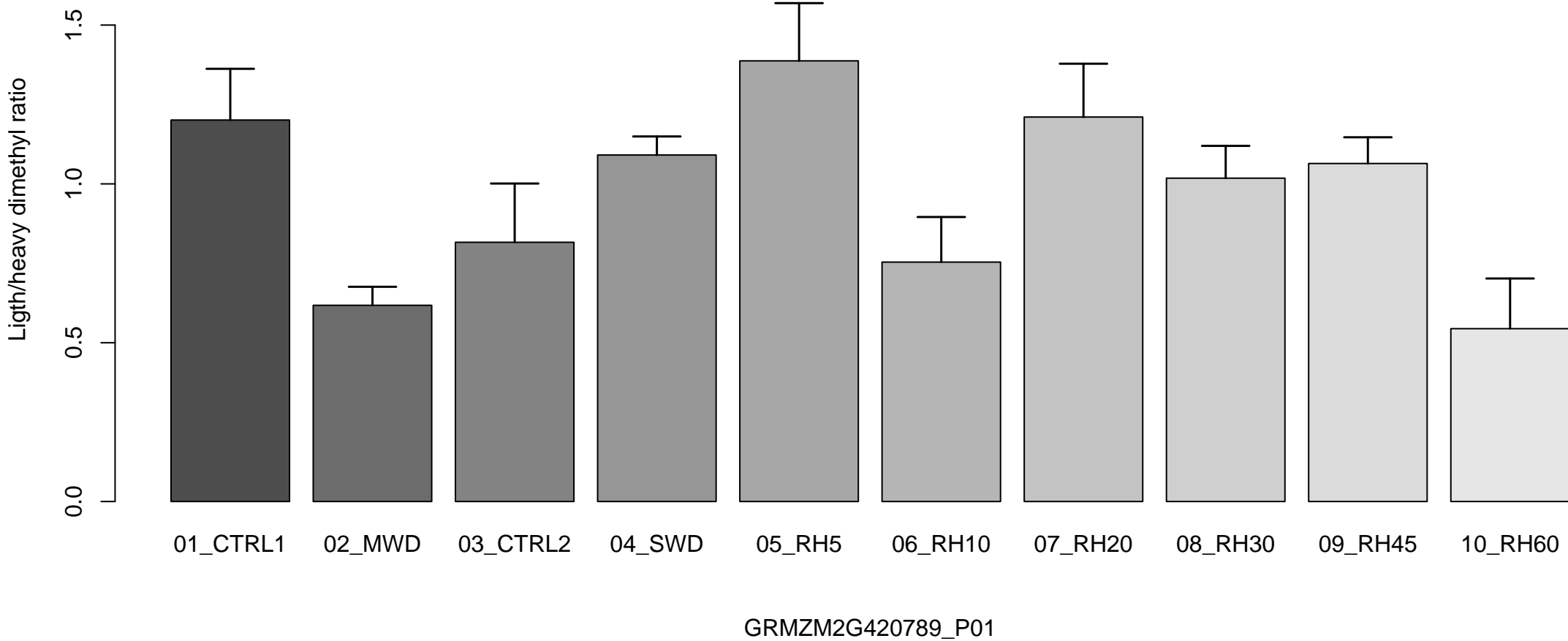


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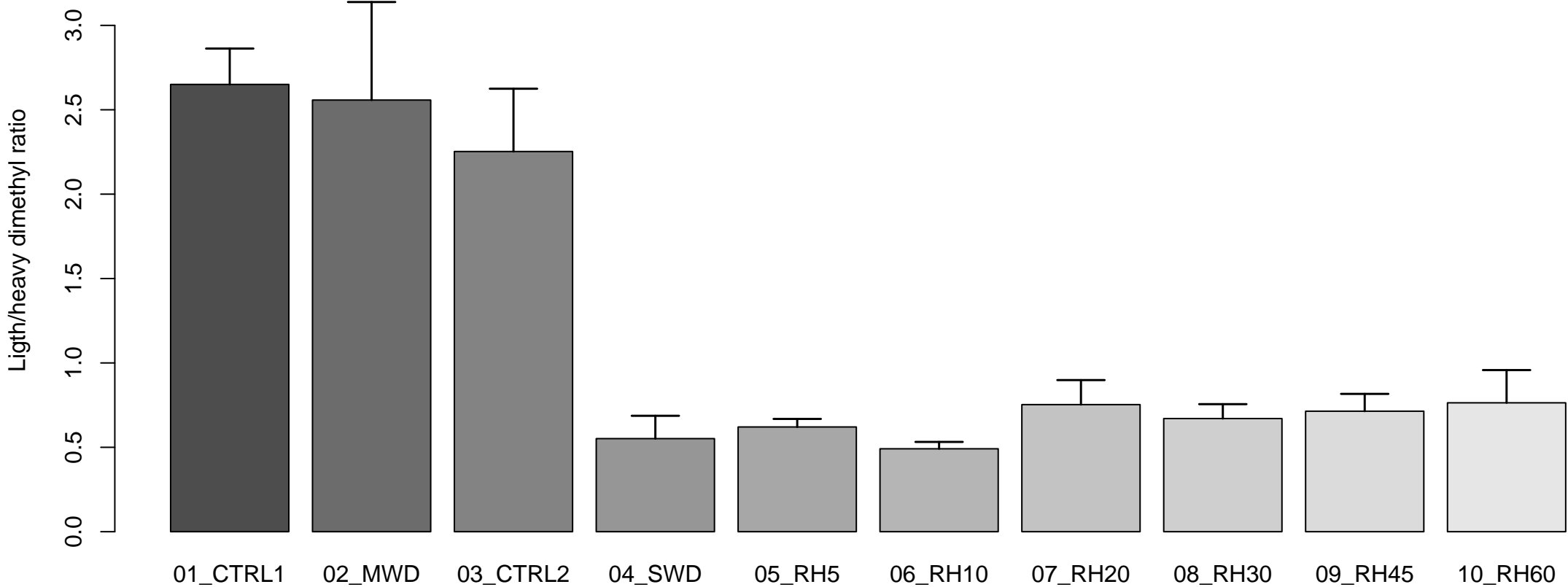
### Nuclear matrix constituent protein 1 # S934



### Putative uncharacterized protein # S7



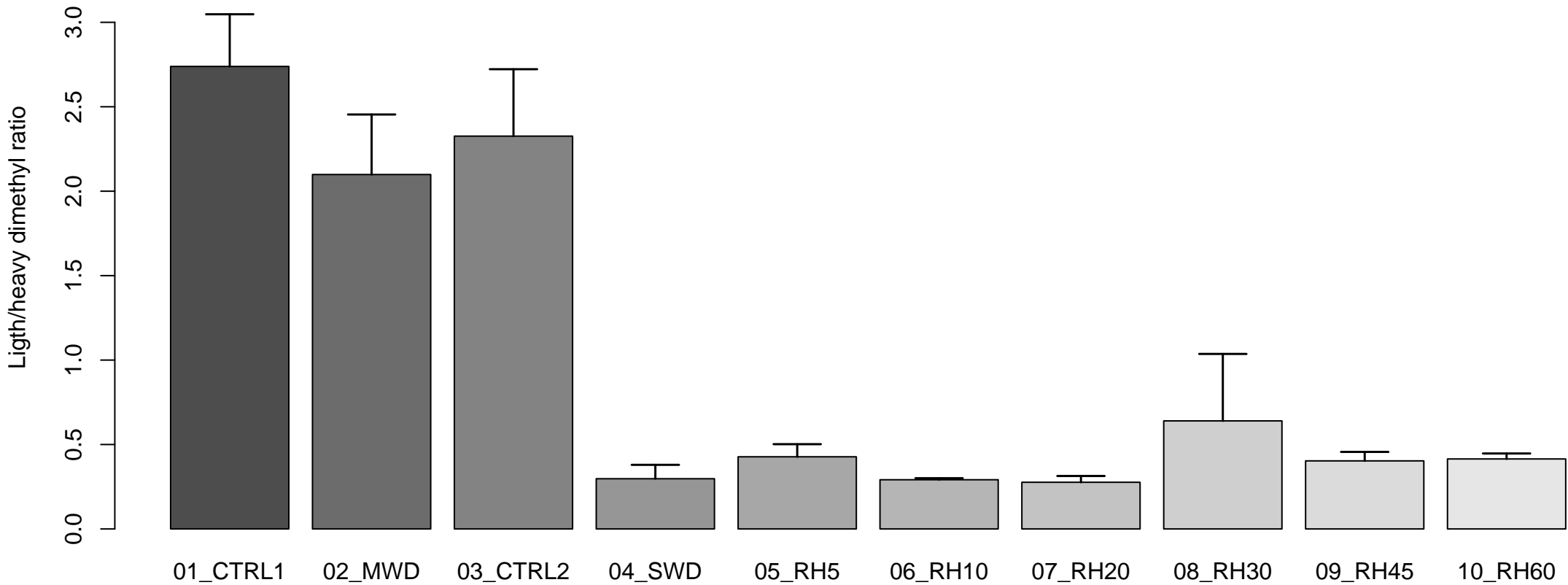
# DNA (cytosine-5)-methyltransferase 1 # S118



GRMZM2G025592\_P01

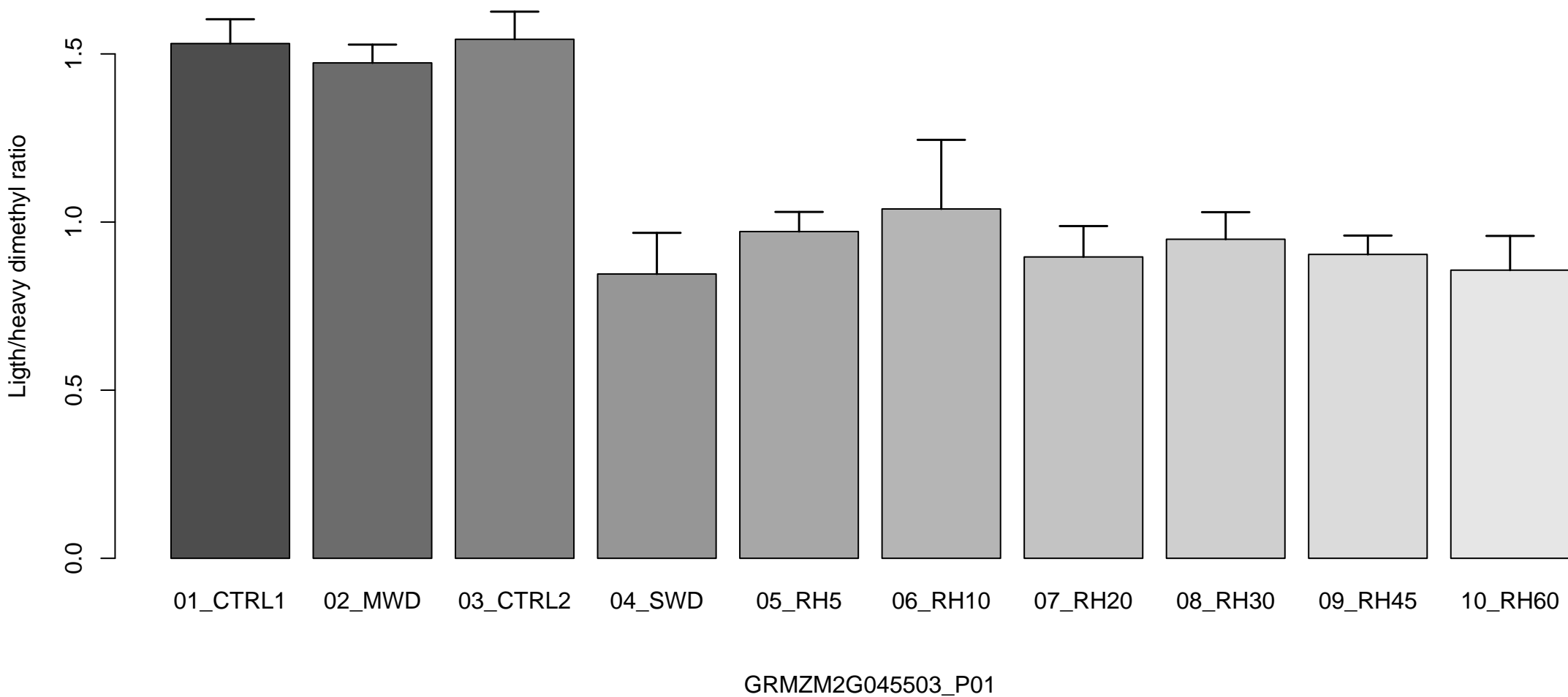


# DNA (cytosine-5)-methyltransferase 1 # S5

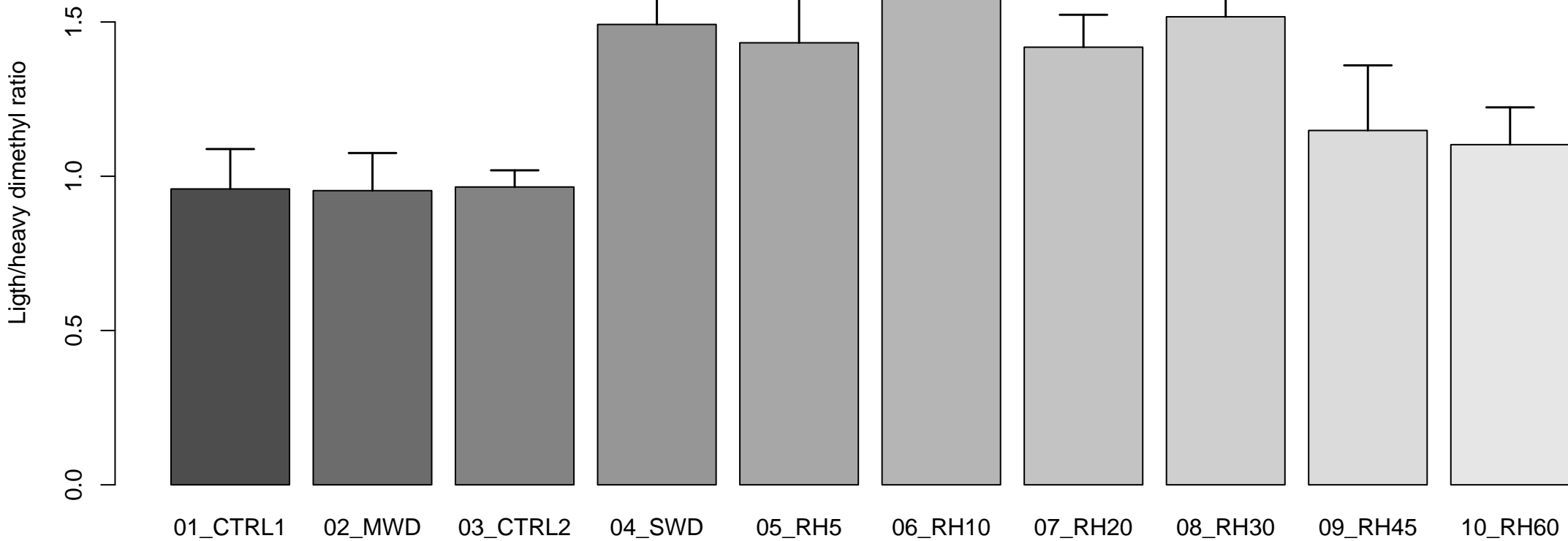


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### Putative uncharacterized protein # S14

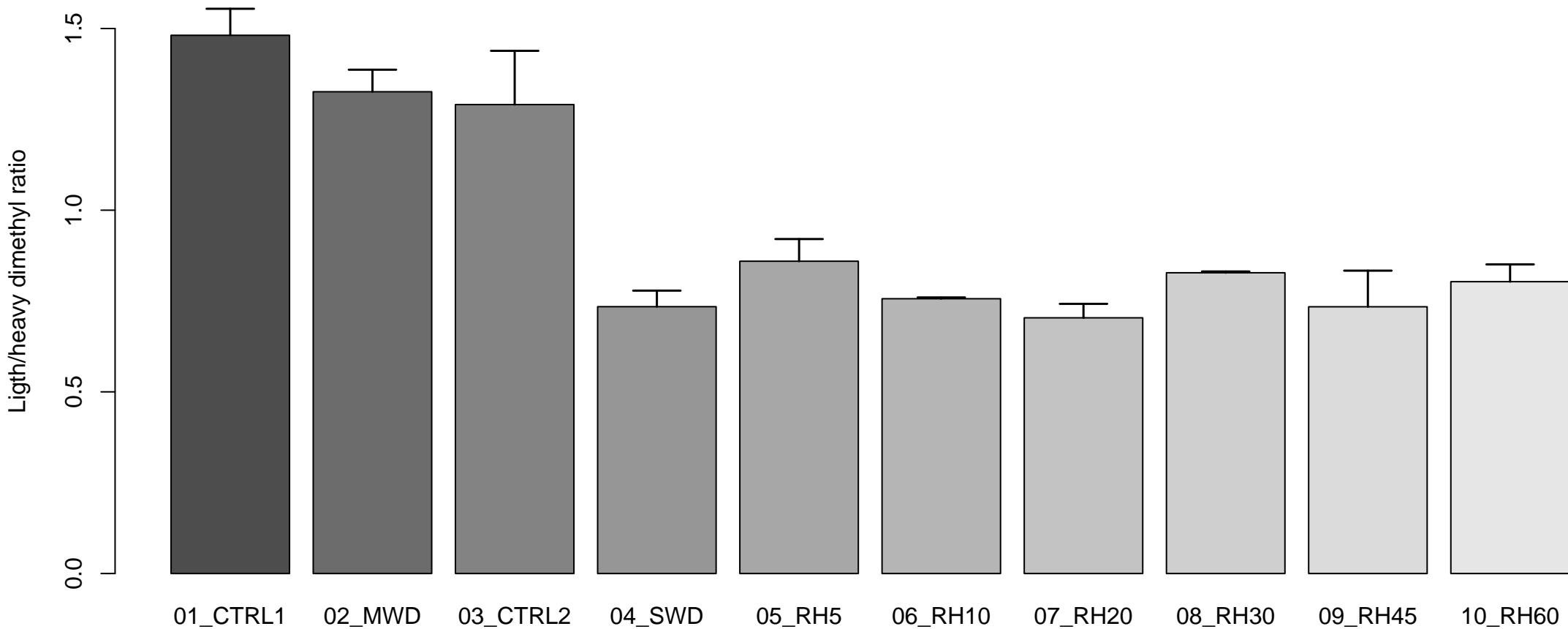


### Putative methyl-binding domain protein MBD115 # S138/T144



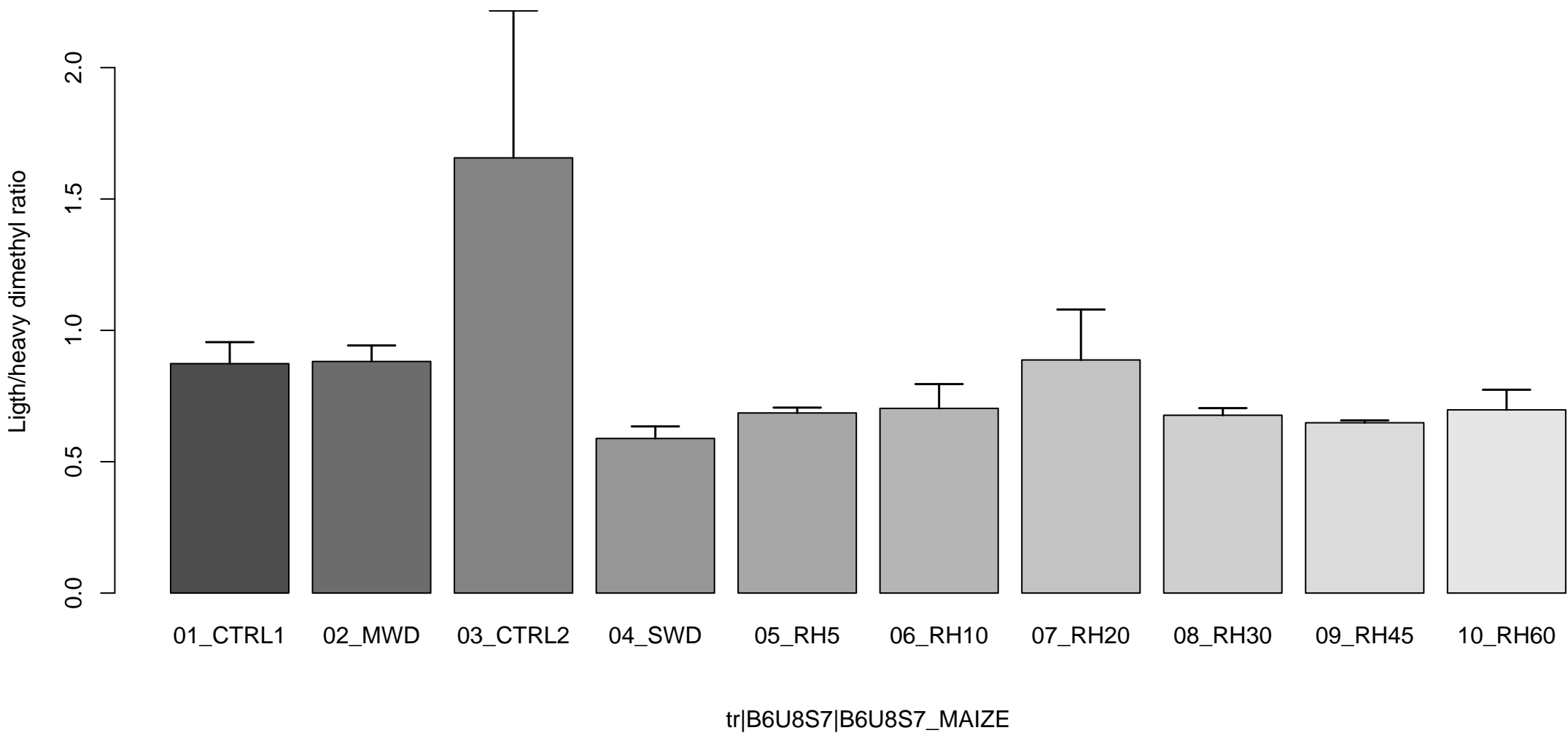
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### Putative methyl-binding domain protein MBD115 # S341

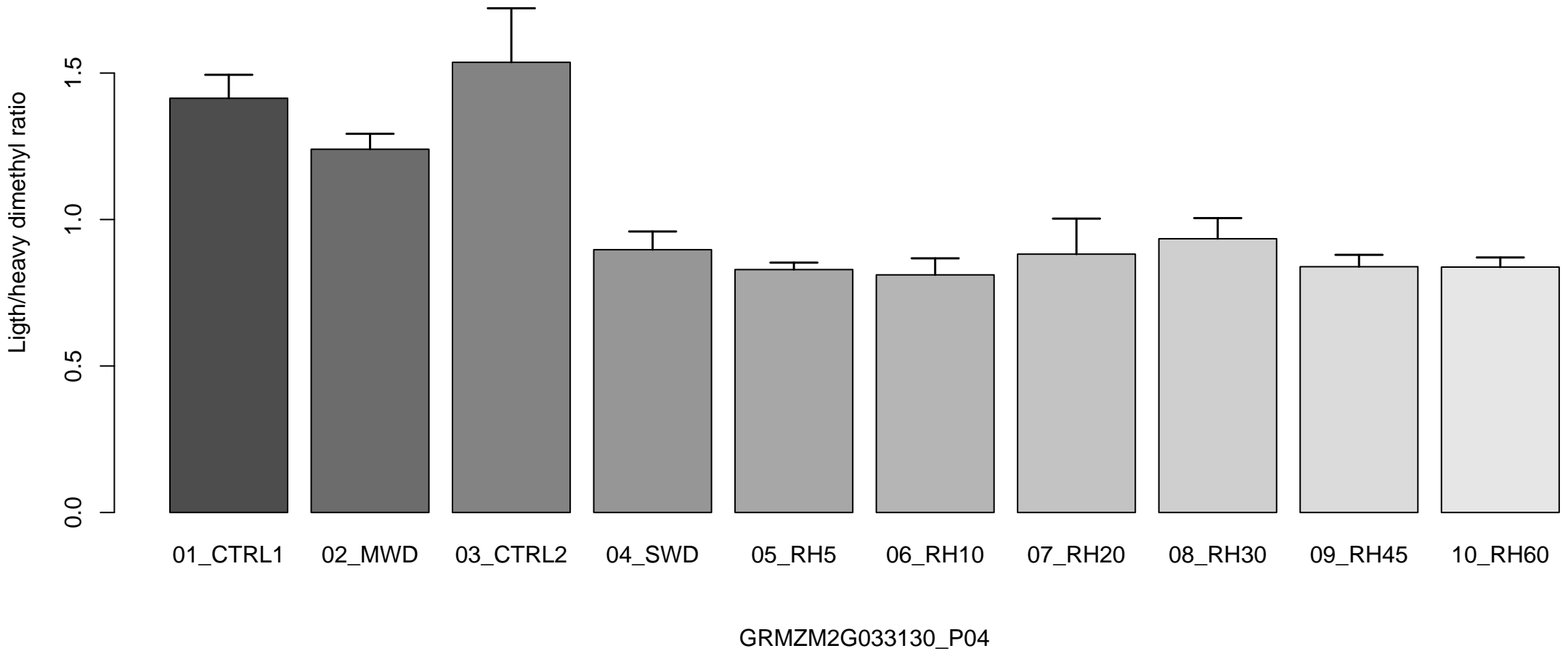


GRMZM2G157470\_P01

### Carbohydrate transporter/ sugar porter/ transporter # S5

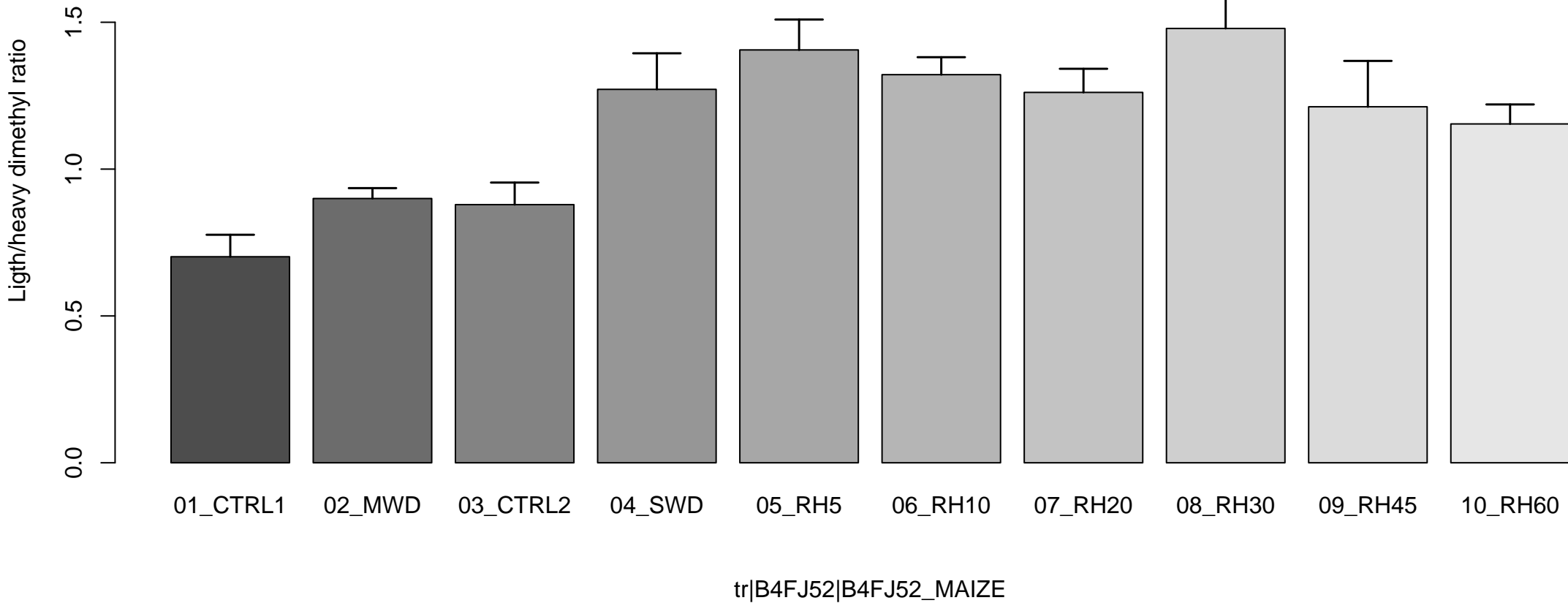


### Gb protein # S19/T21

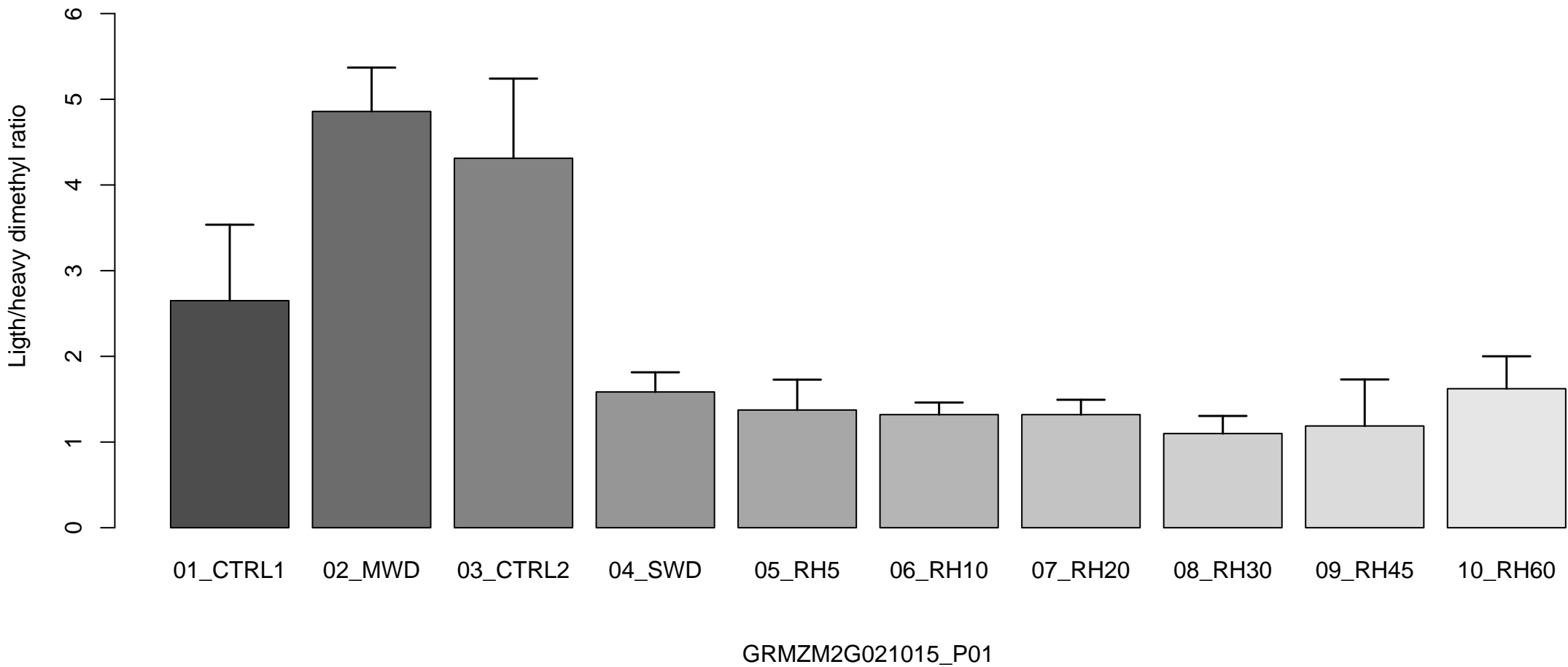


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### Early fruit mRNA # S258

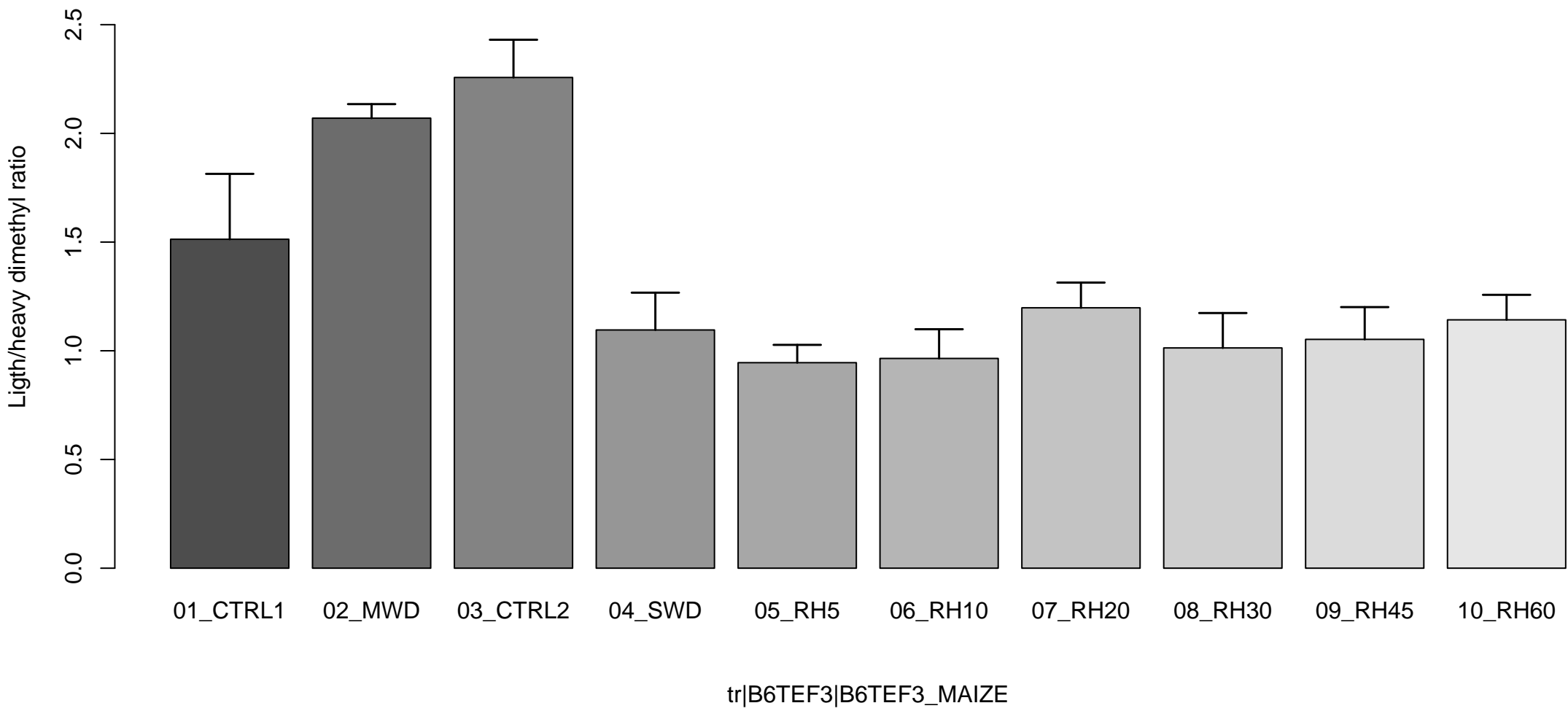


### Putative uncharacterized protein # S153

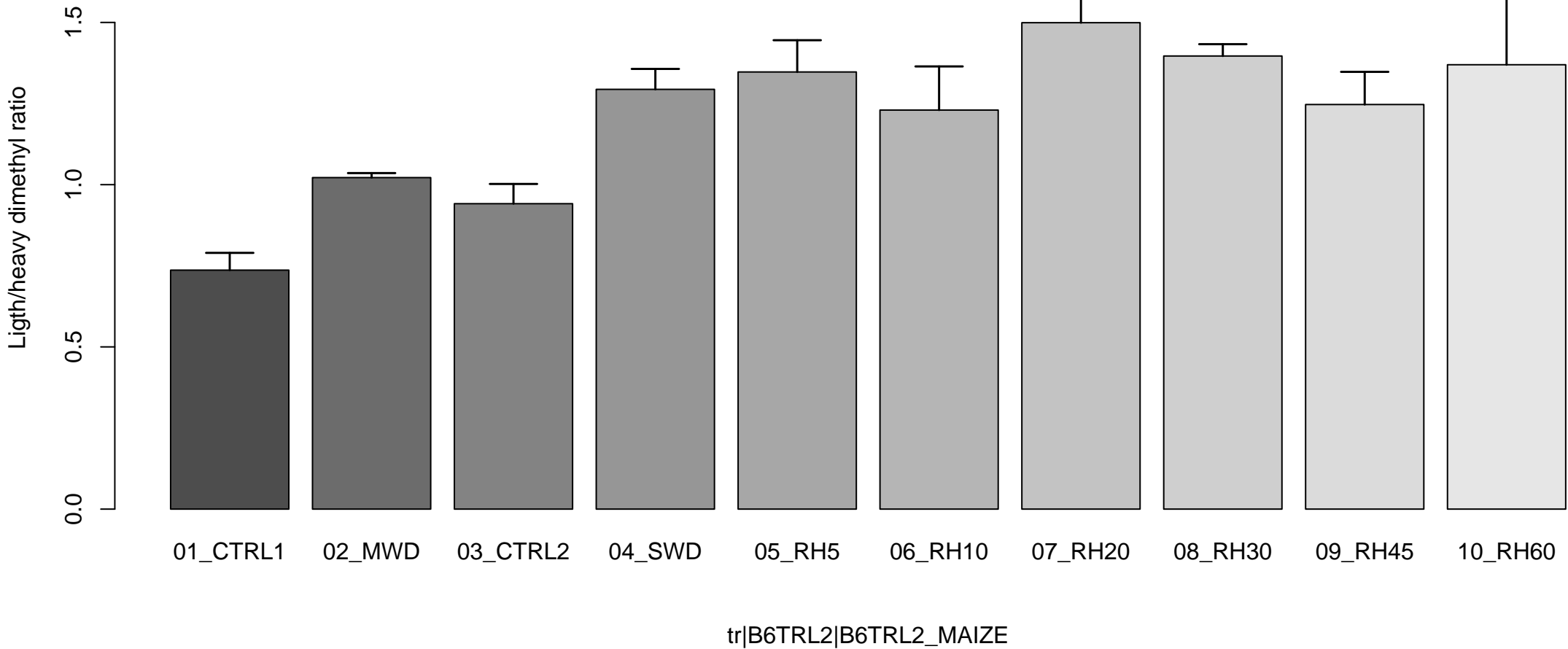




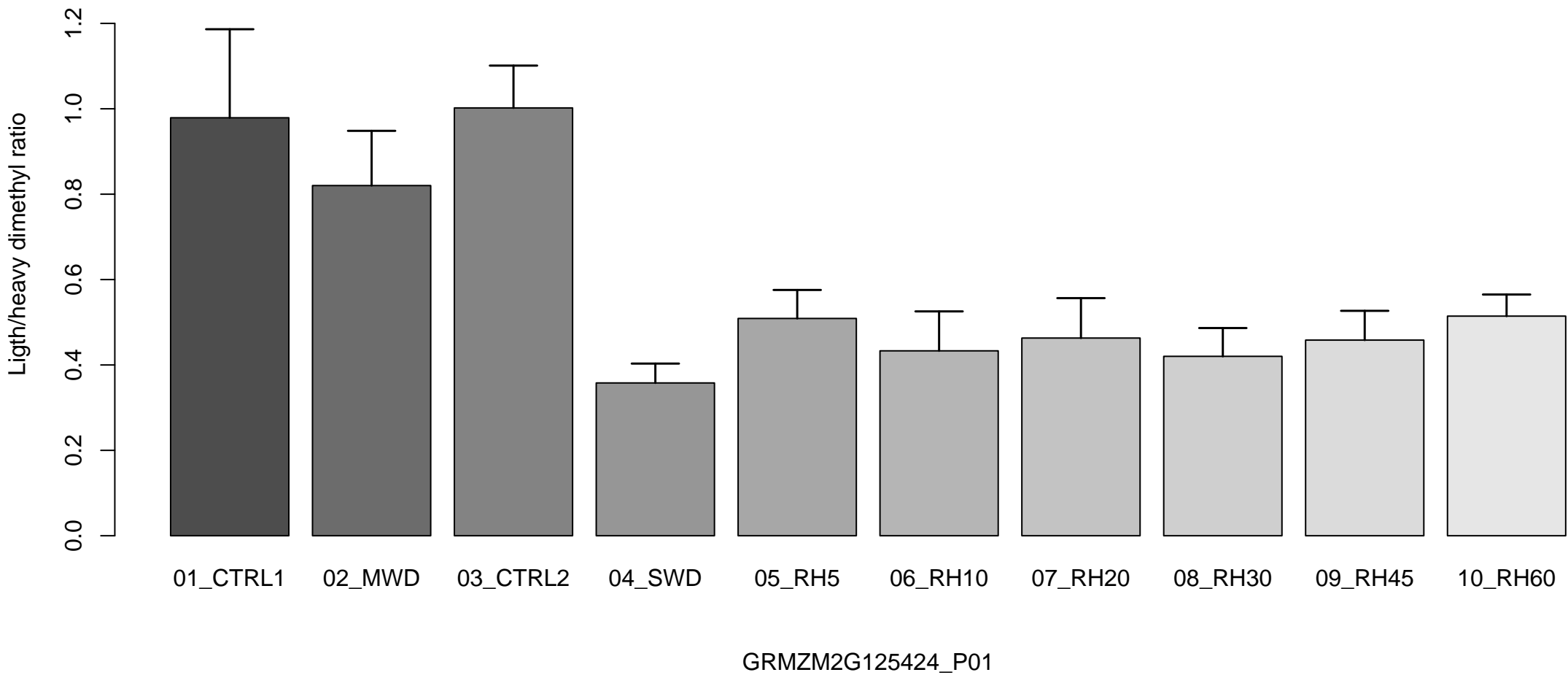
### SeIT/seIW/seIH selenoprotein domain containing protein # S17



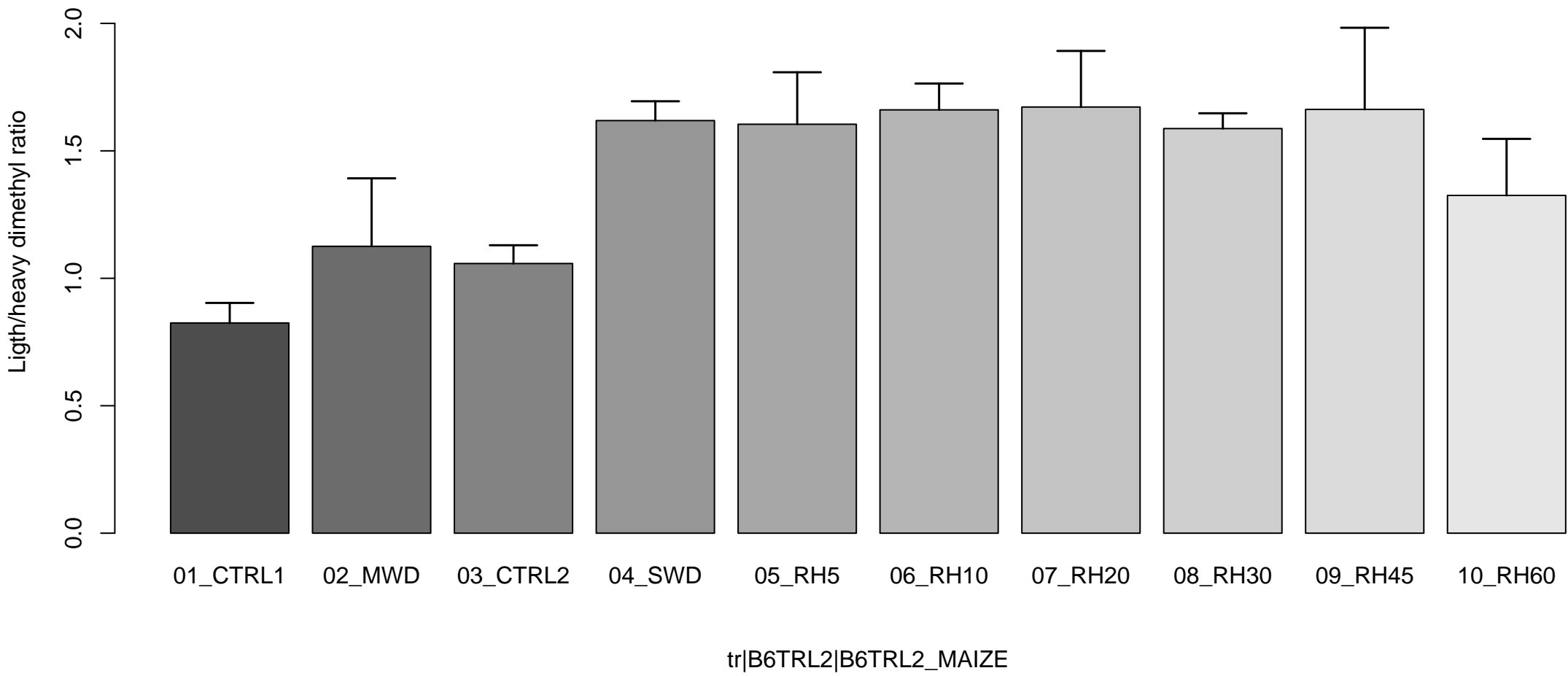
### Putative methyl-binding domain protein MBD105 # S252



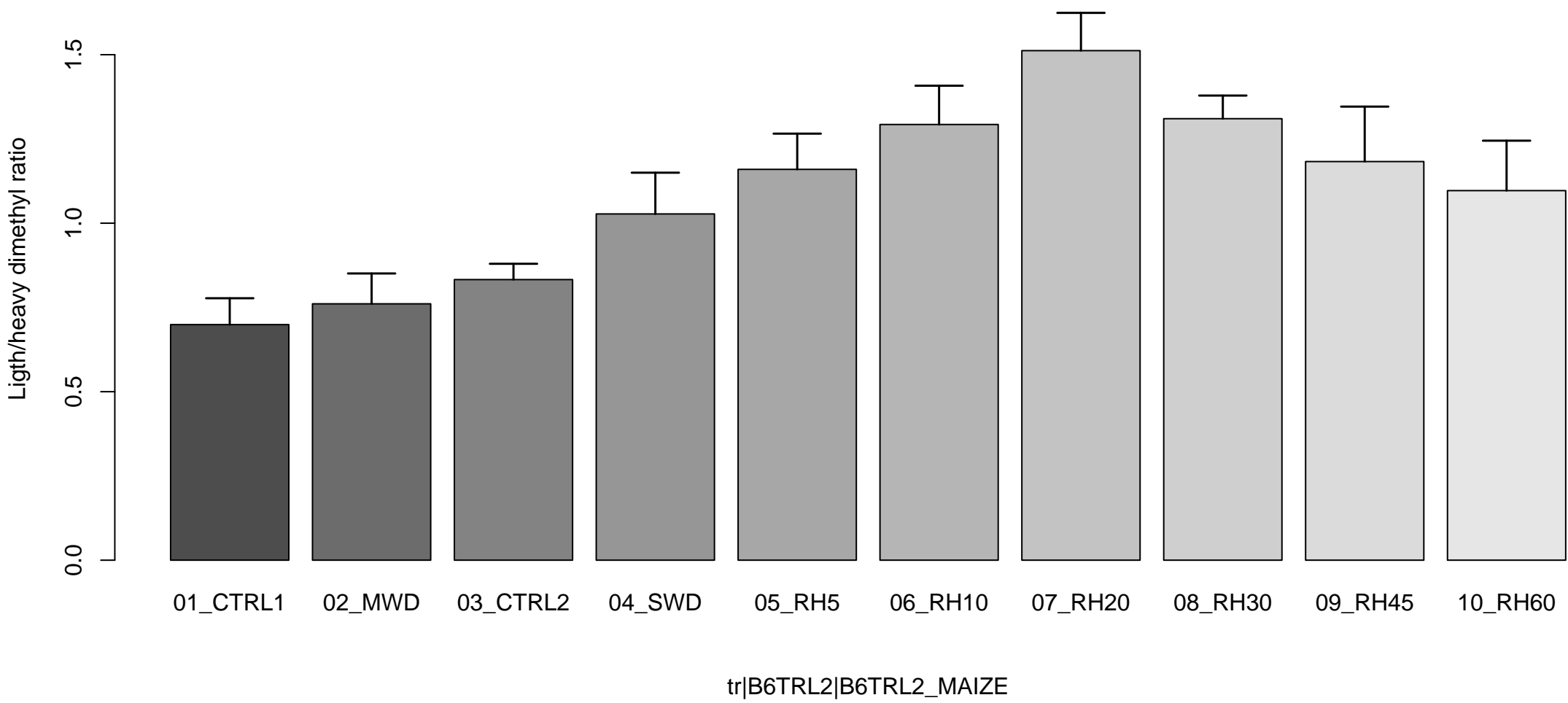
### MDR-like ABC transporter # S382



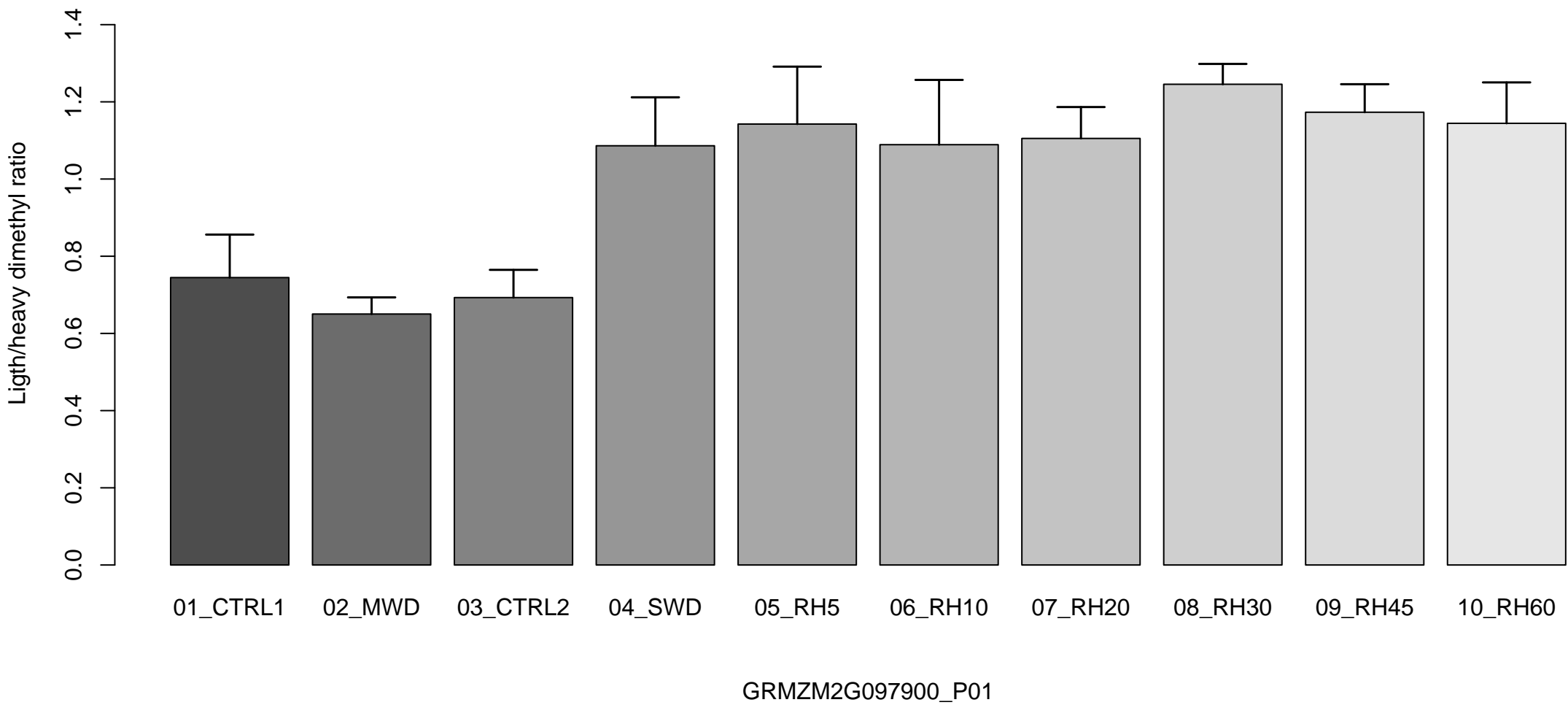
### Putative methyl-binding domain protein MBD105 # S332



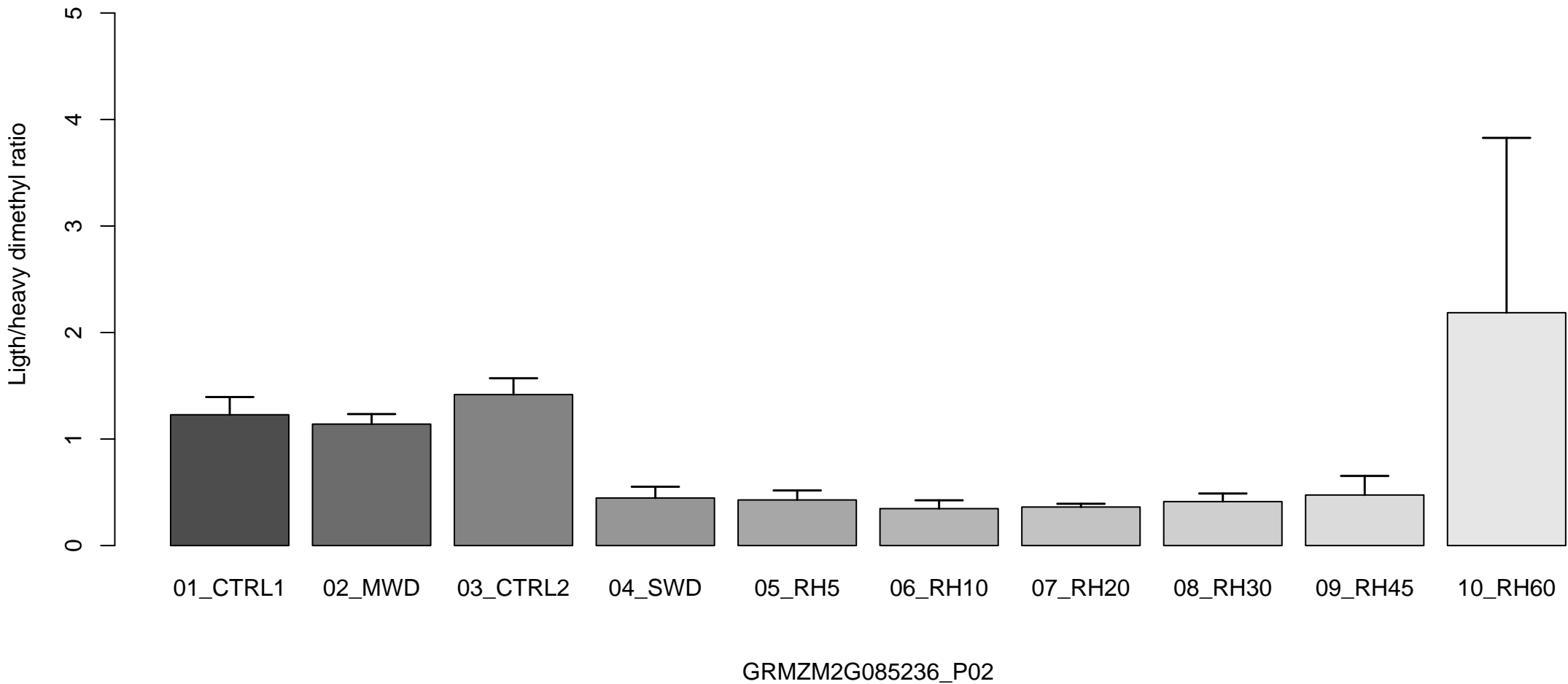
### Putative methyl-binding domain protein MBD105 # S300



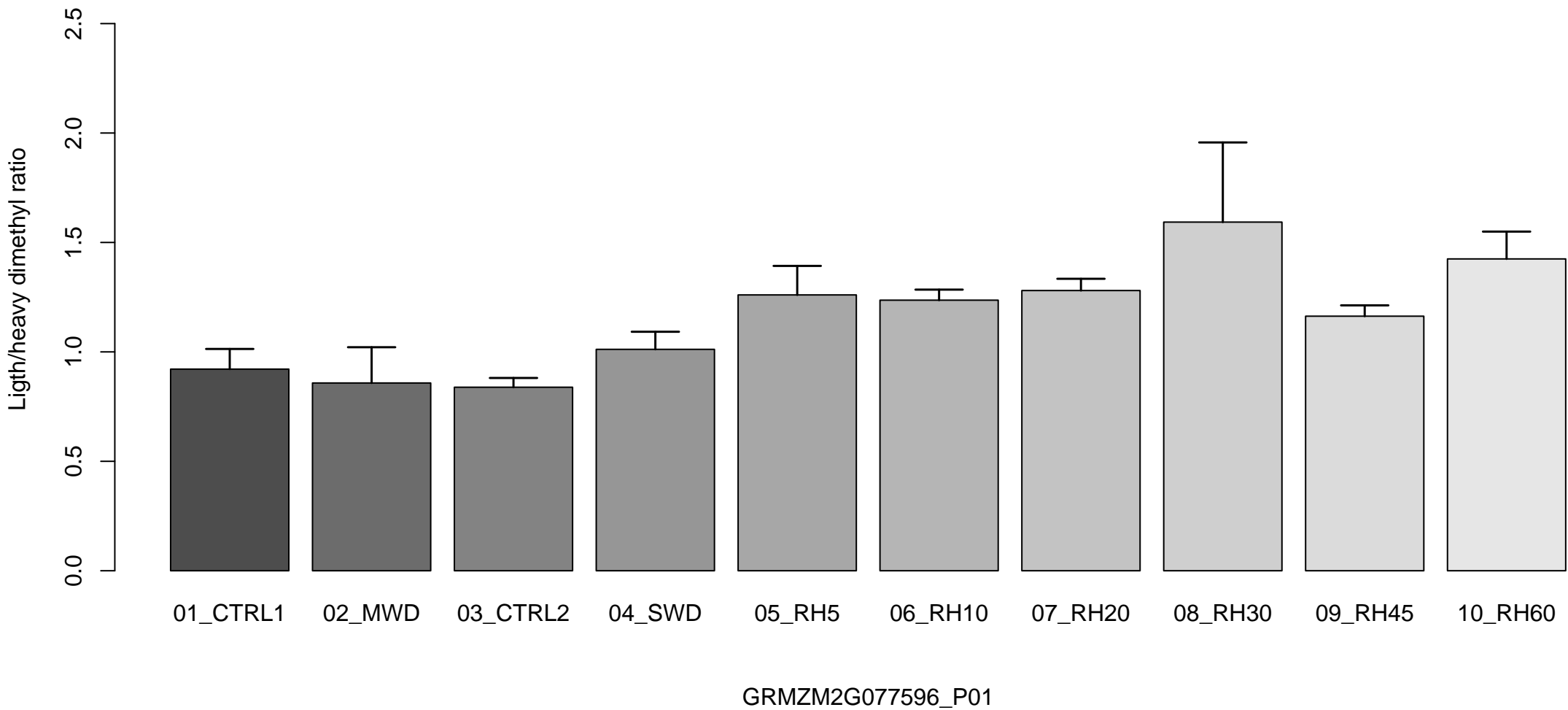
### Calmodulin-related protein 2, touch-induced # S66



### MDR-like ABC transporter # S541

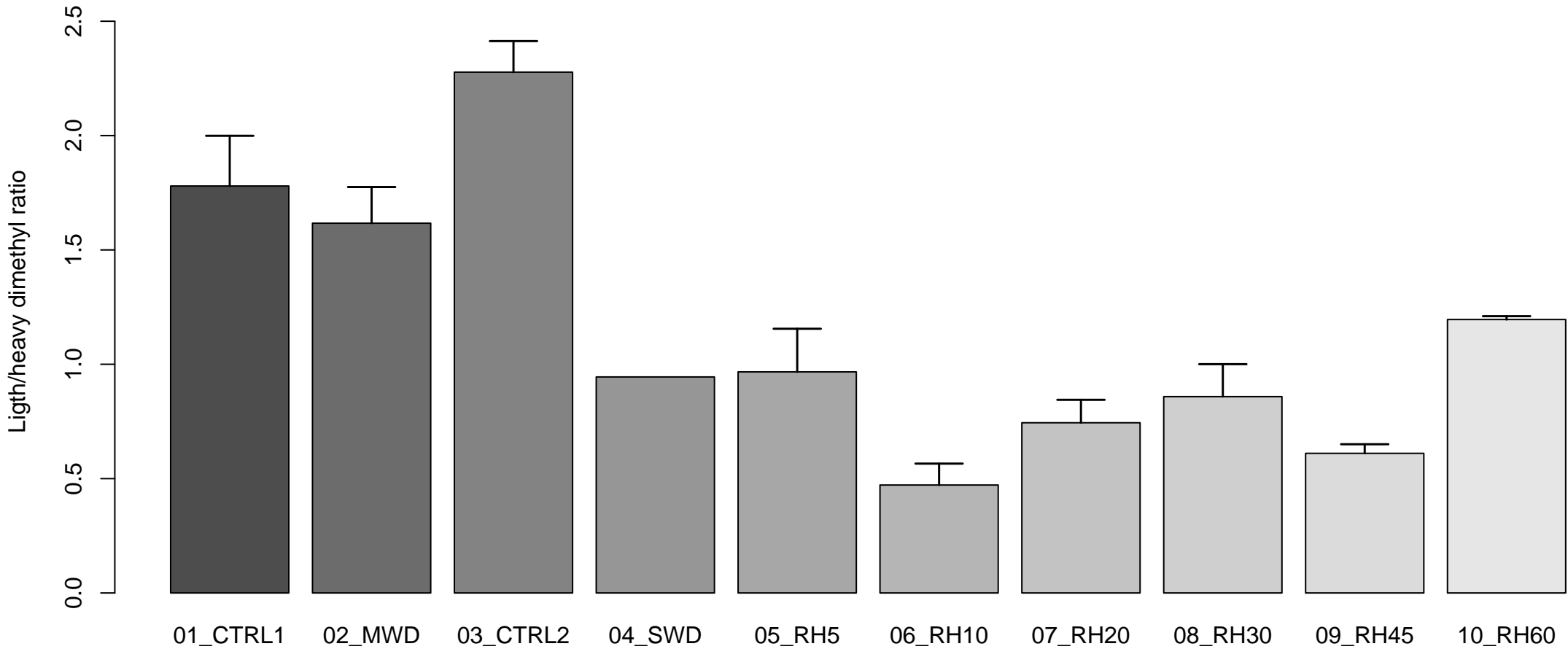


### COP1-interacting protein 7 (CIP7)-like protein # S855



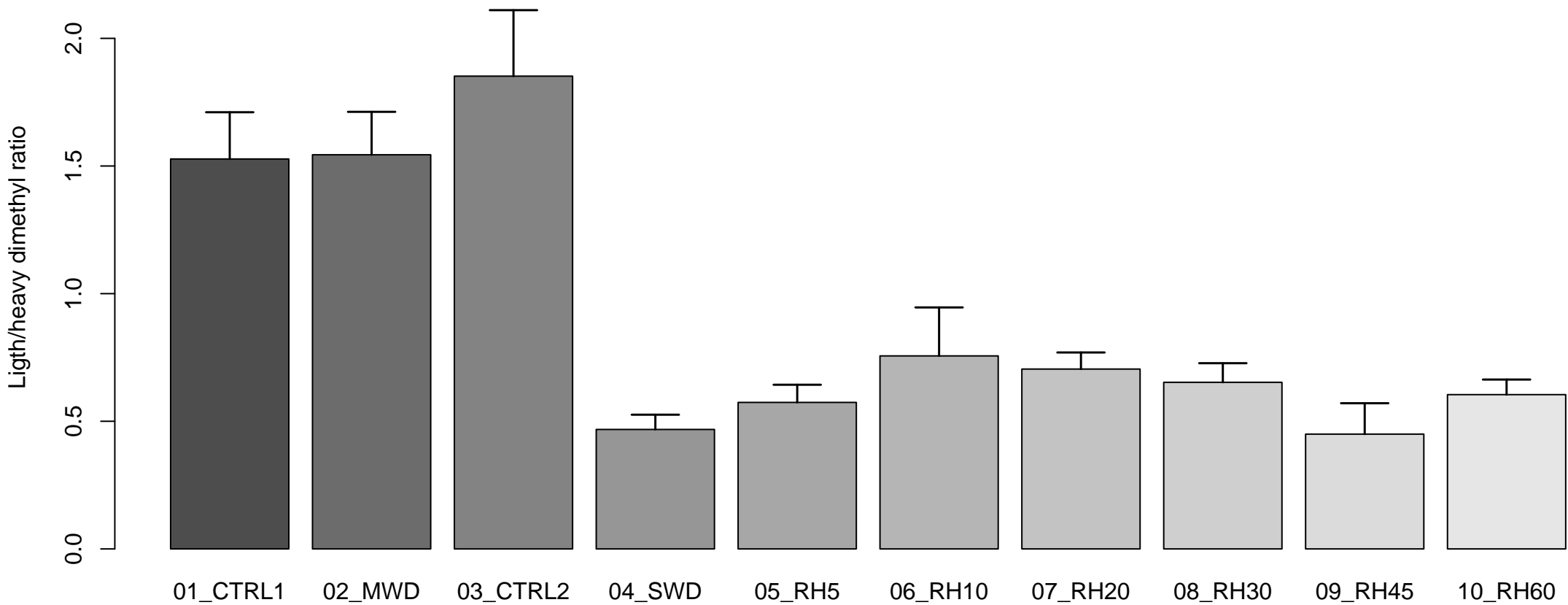


### E3 ubiquitin protein ligase upl2, Putative # S1747



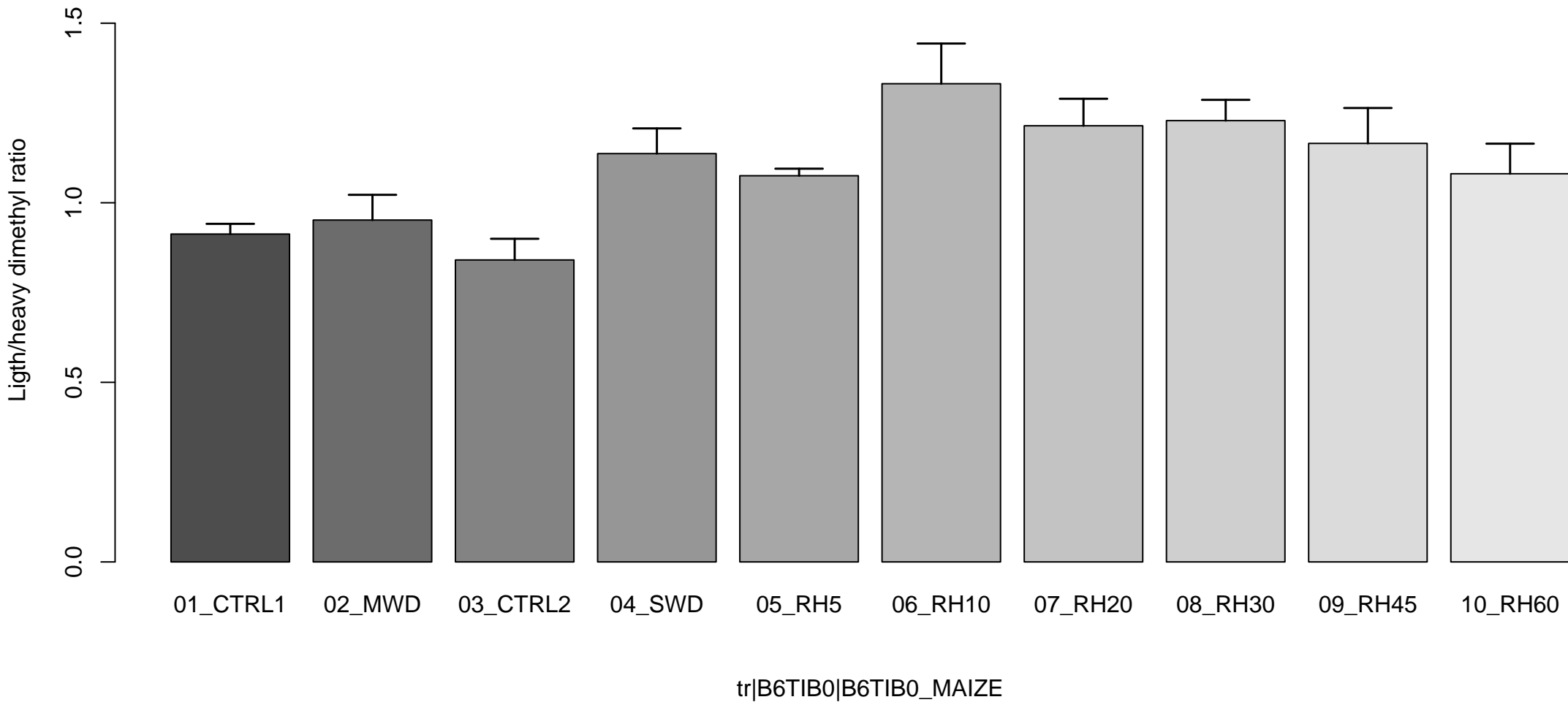
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# Kinesin heavy chain # T952

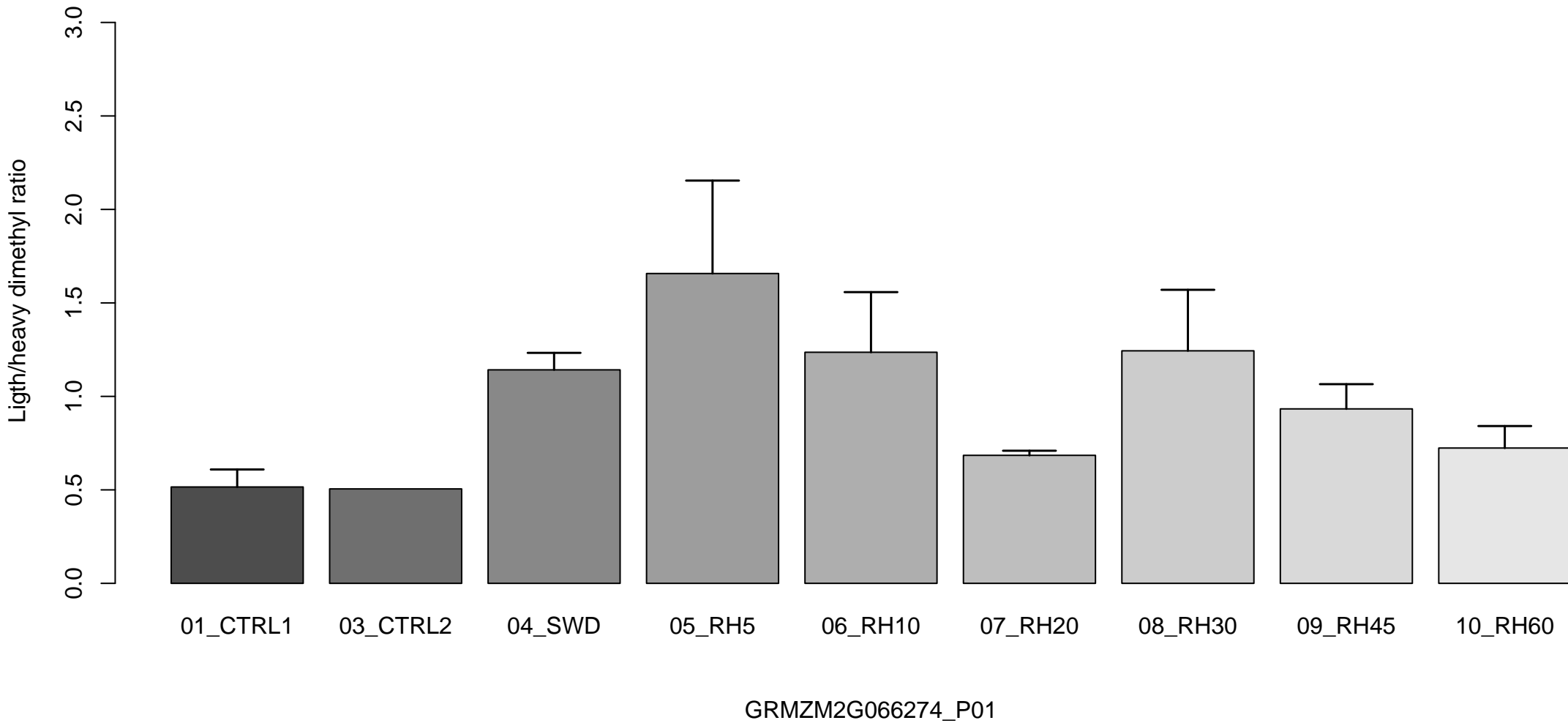


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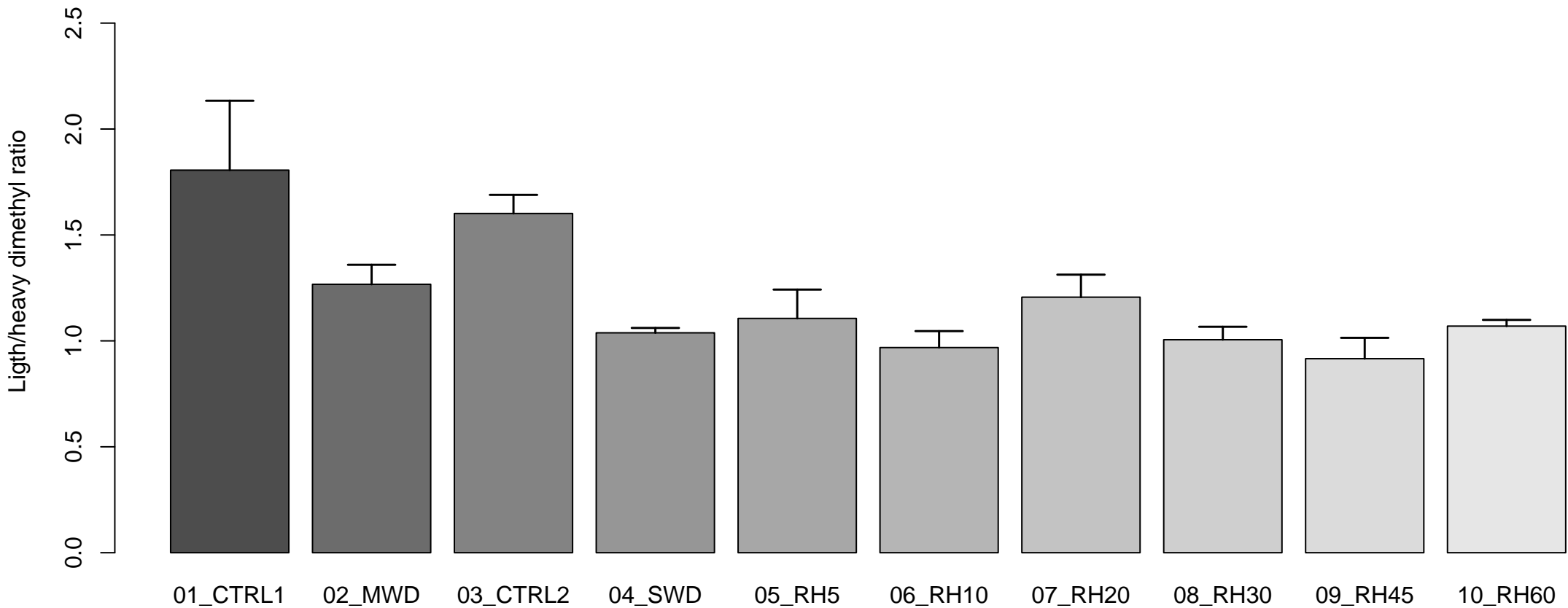
### Proteasome inhibitor-like protein # S178



### Receptor-like kinase RHG1 # S753

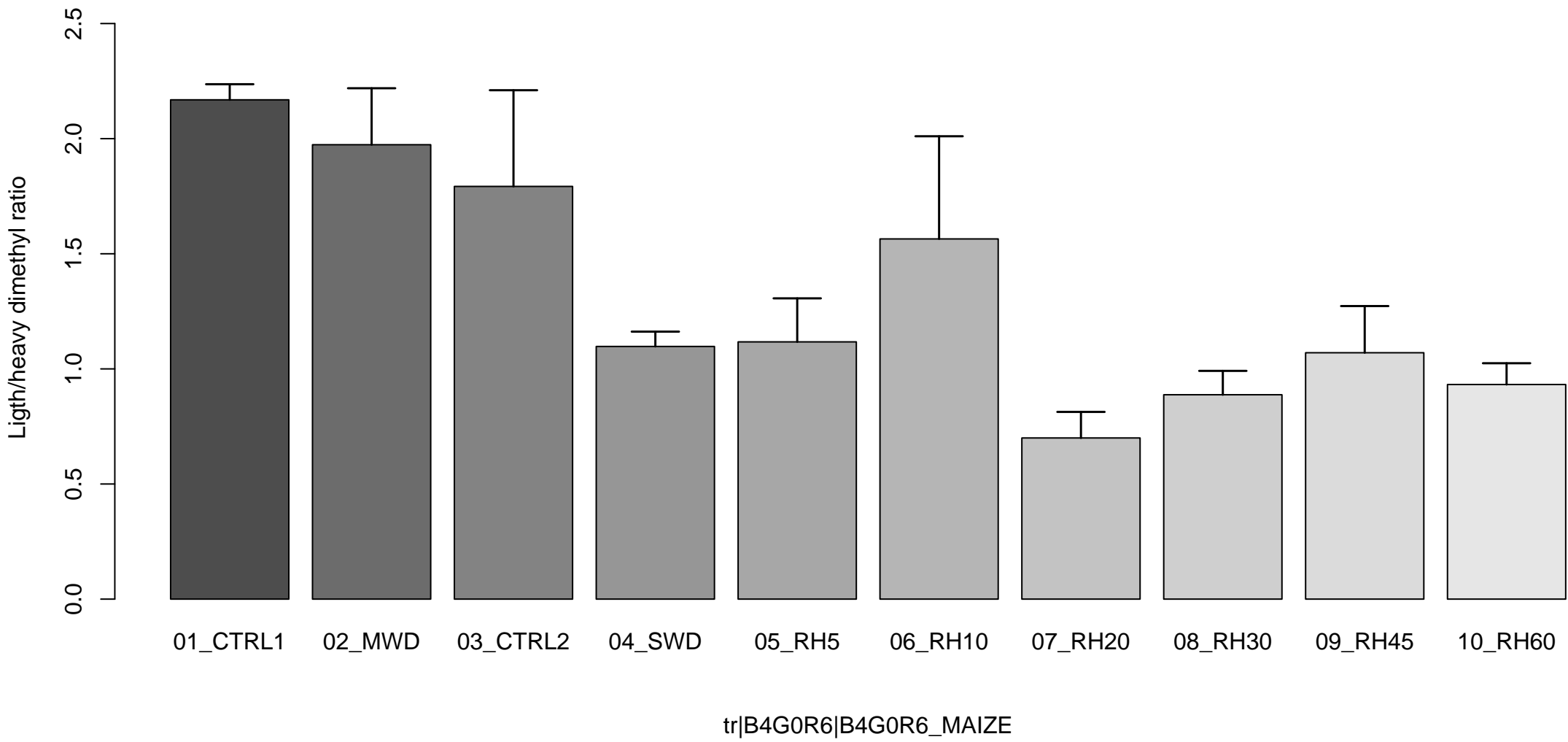


### Putative uncharacterized protein # S190

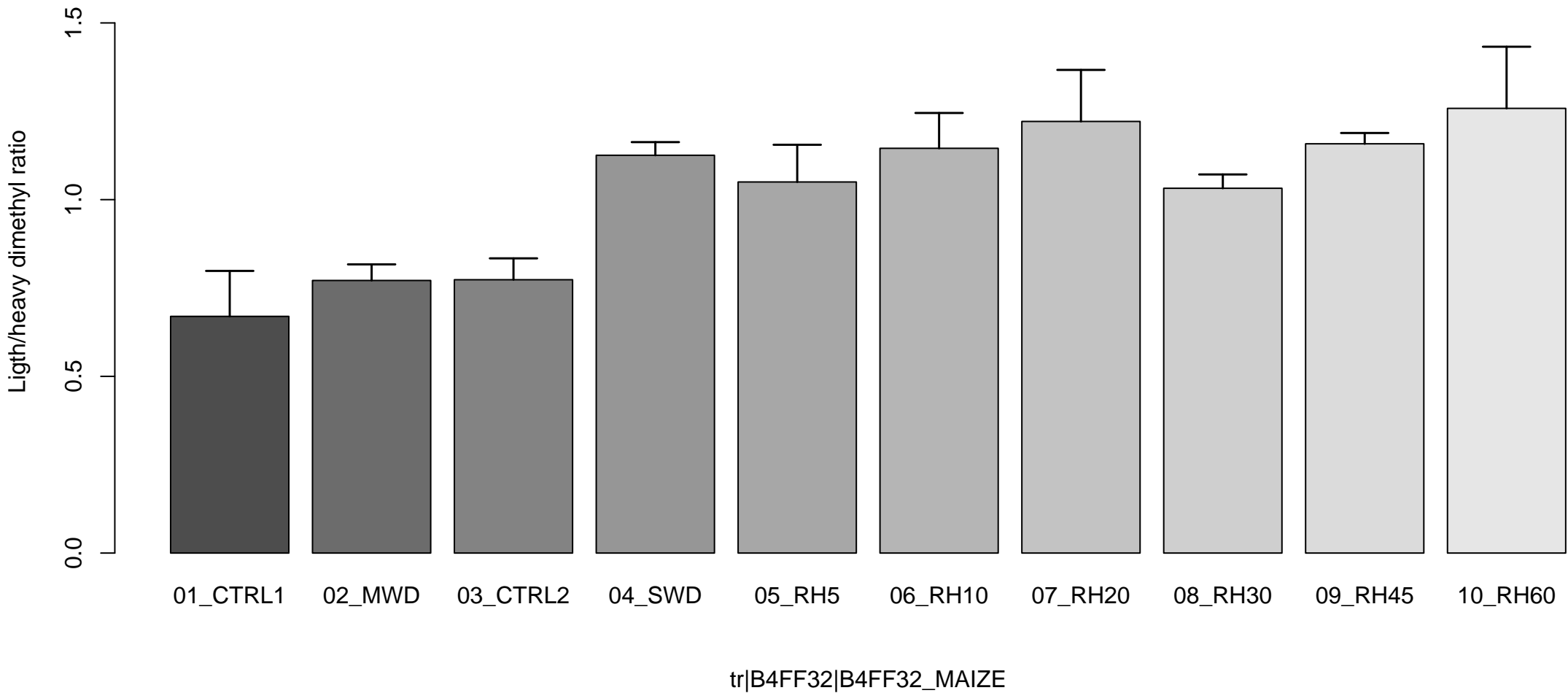


GRMZM2G024811\_P02

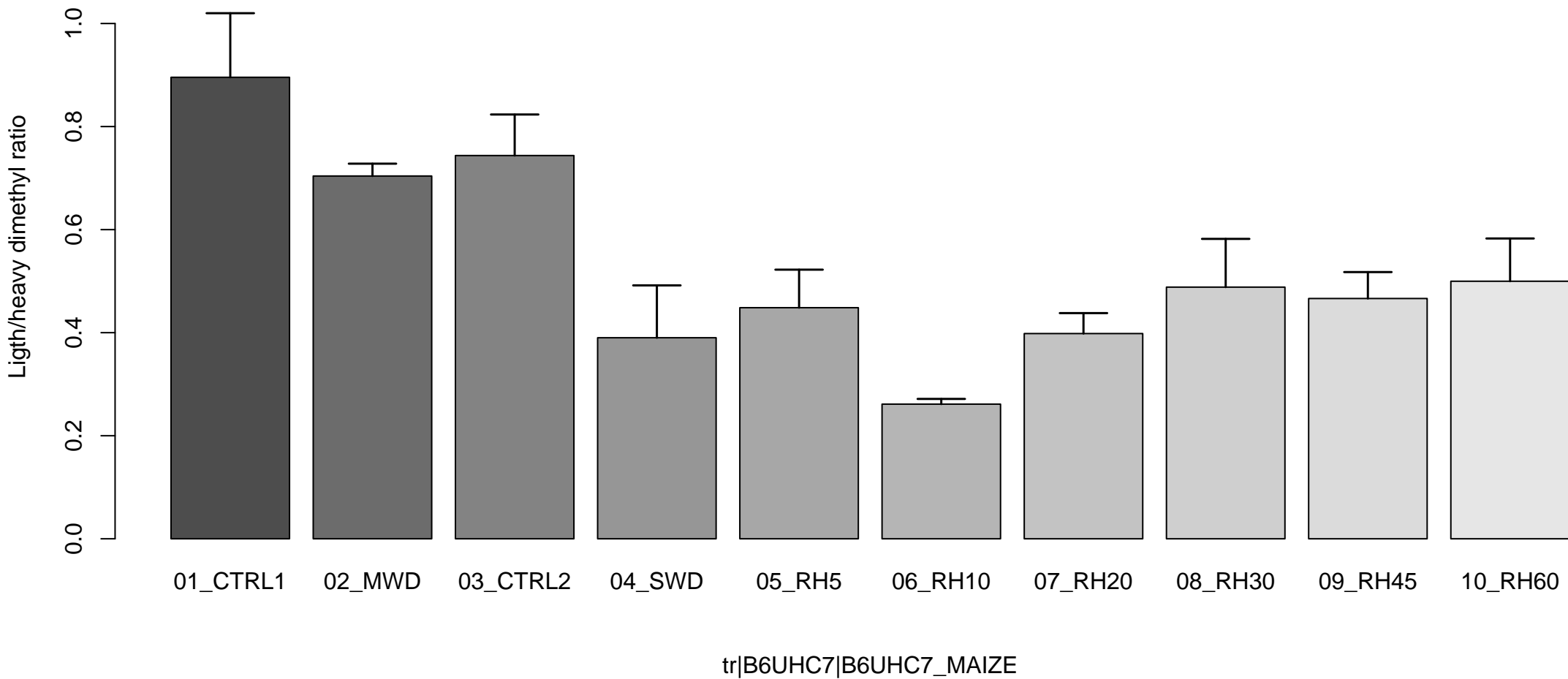
# Putative nucleic acid binding protein # S91



### Putative uncharacterized protein # S326

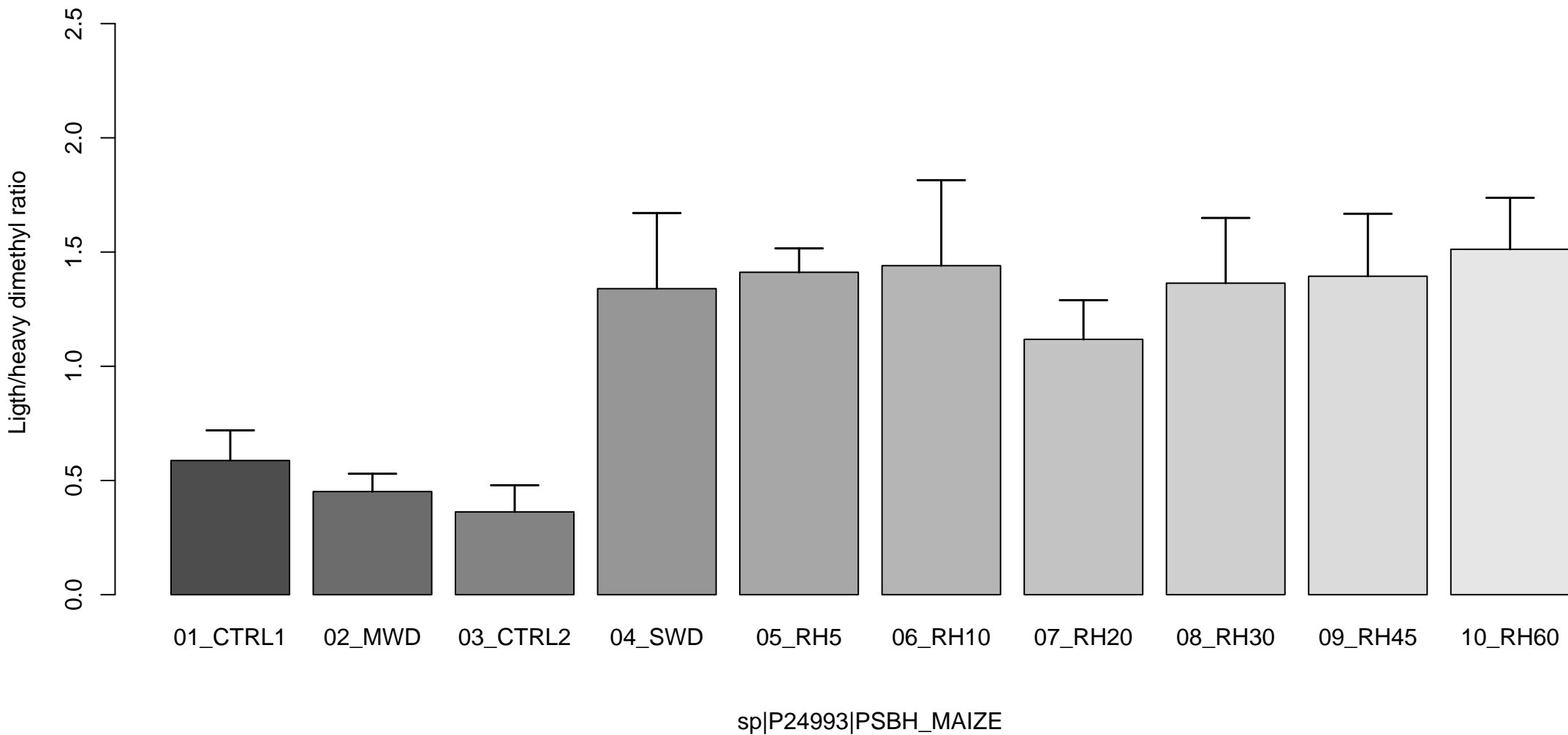


### Transcription factor HY5 # S43

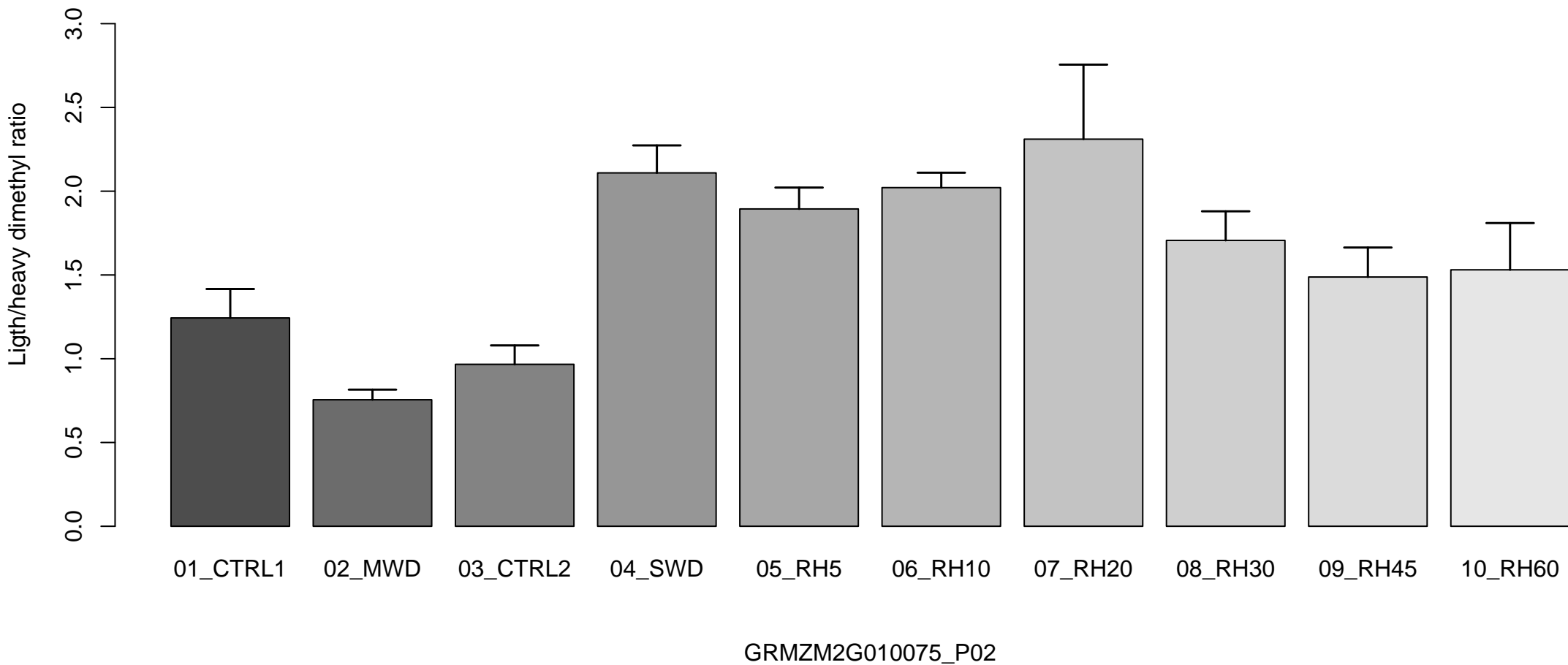




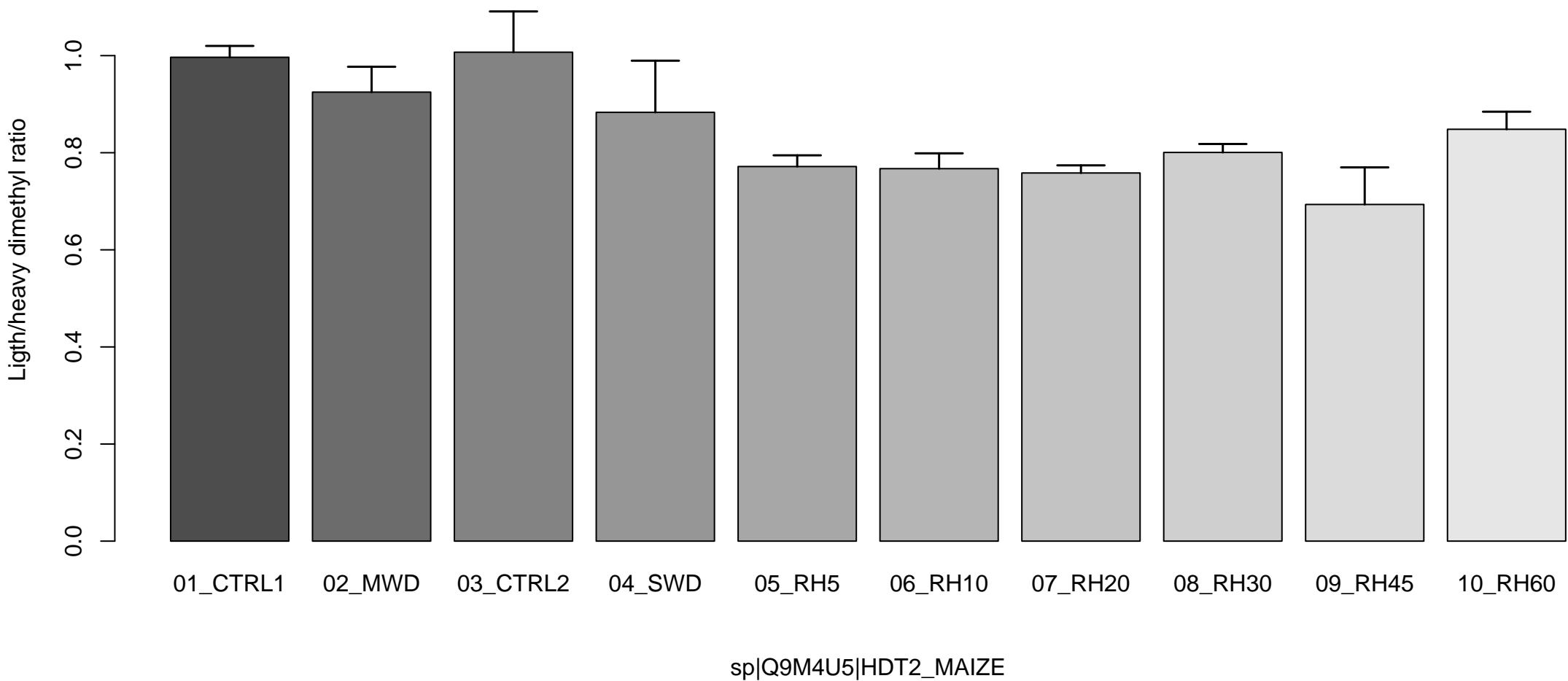
### Photosystem II reaction center protein H # S9/S10



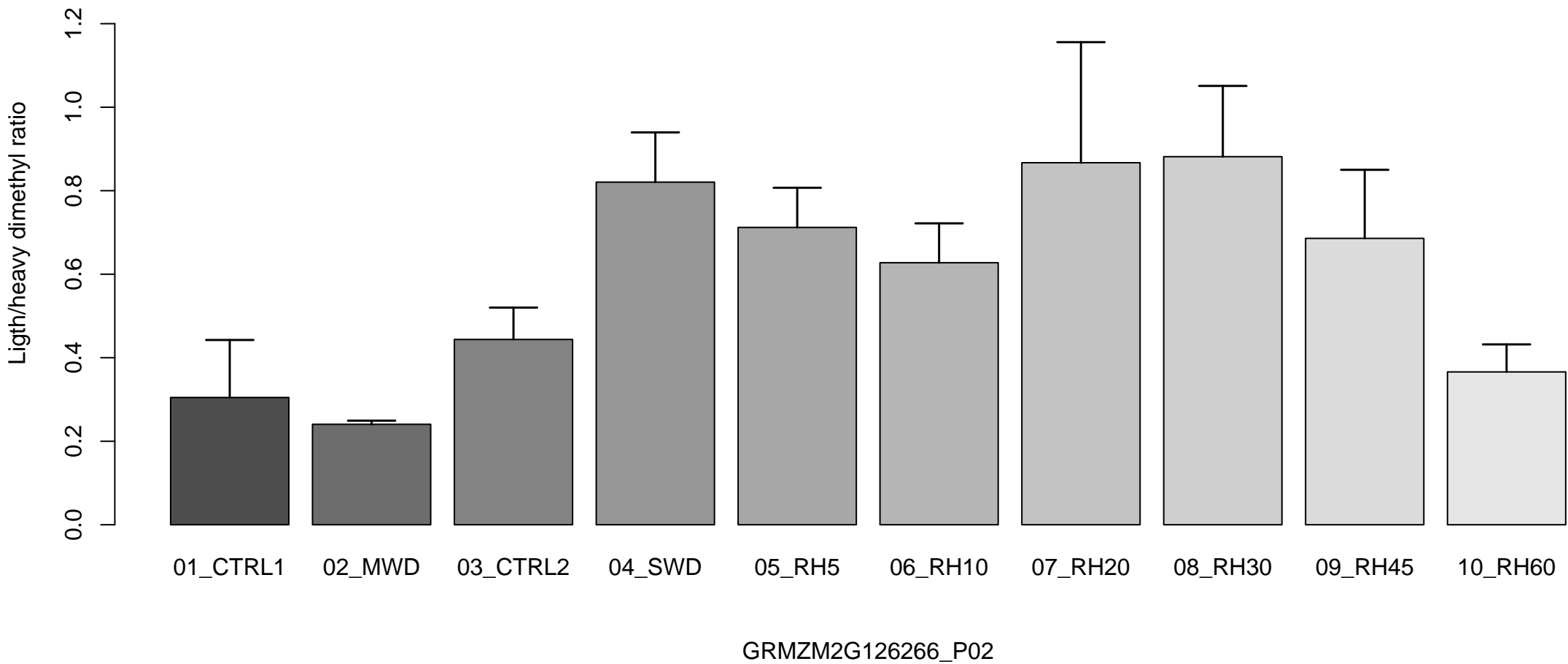
### Bromodomain-containing protein, putative # S124



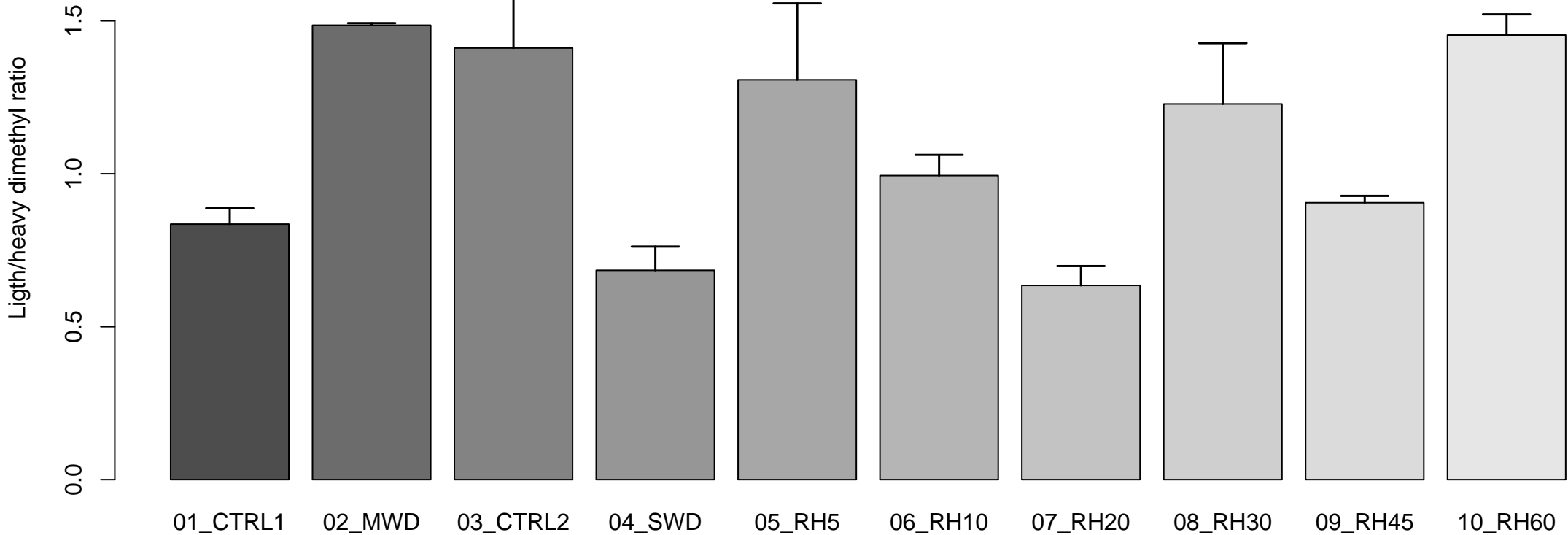
### Histone deacetylase HDT2 # S105



### Putative uncharacterized protein # S167

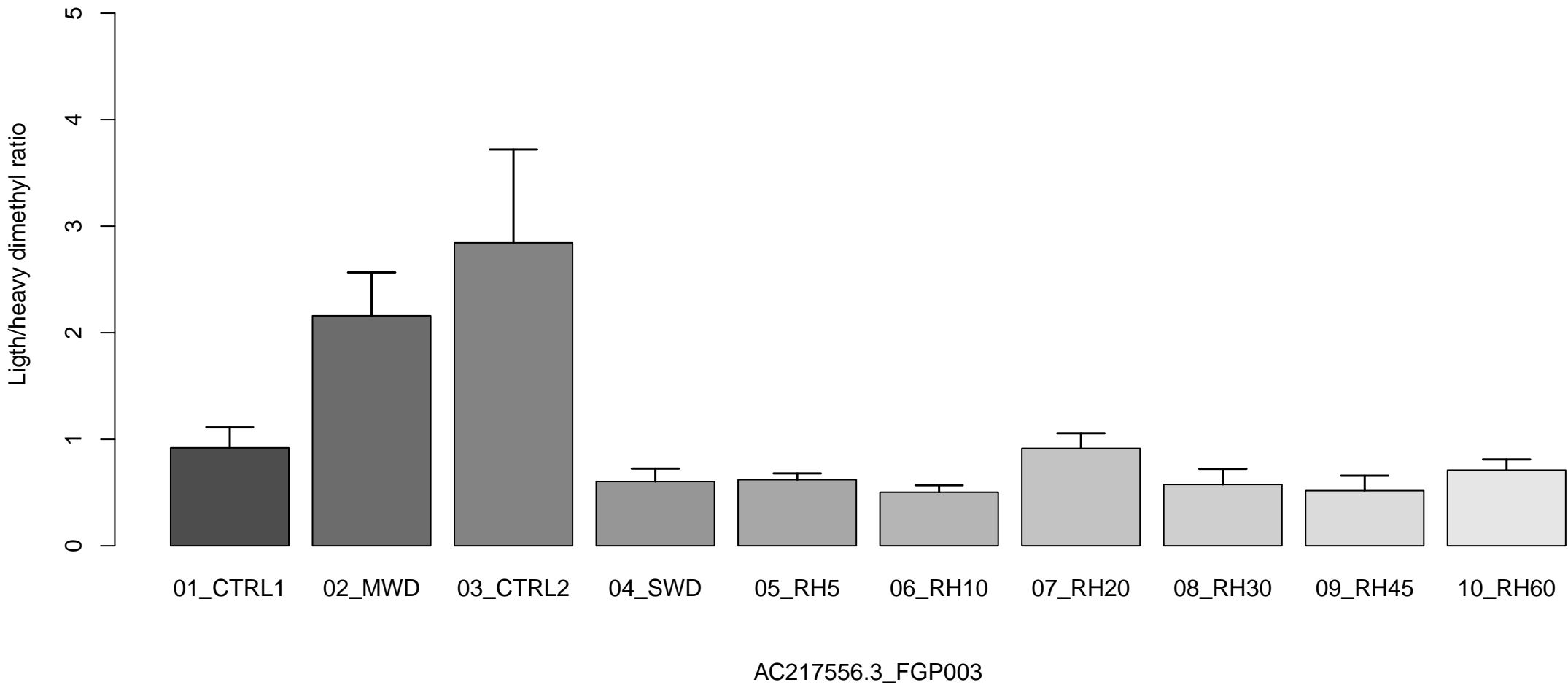


### Plus-3 domain containing protein, expressed # S373

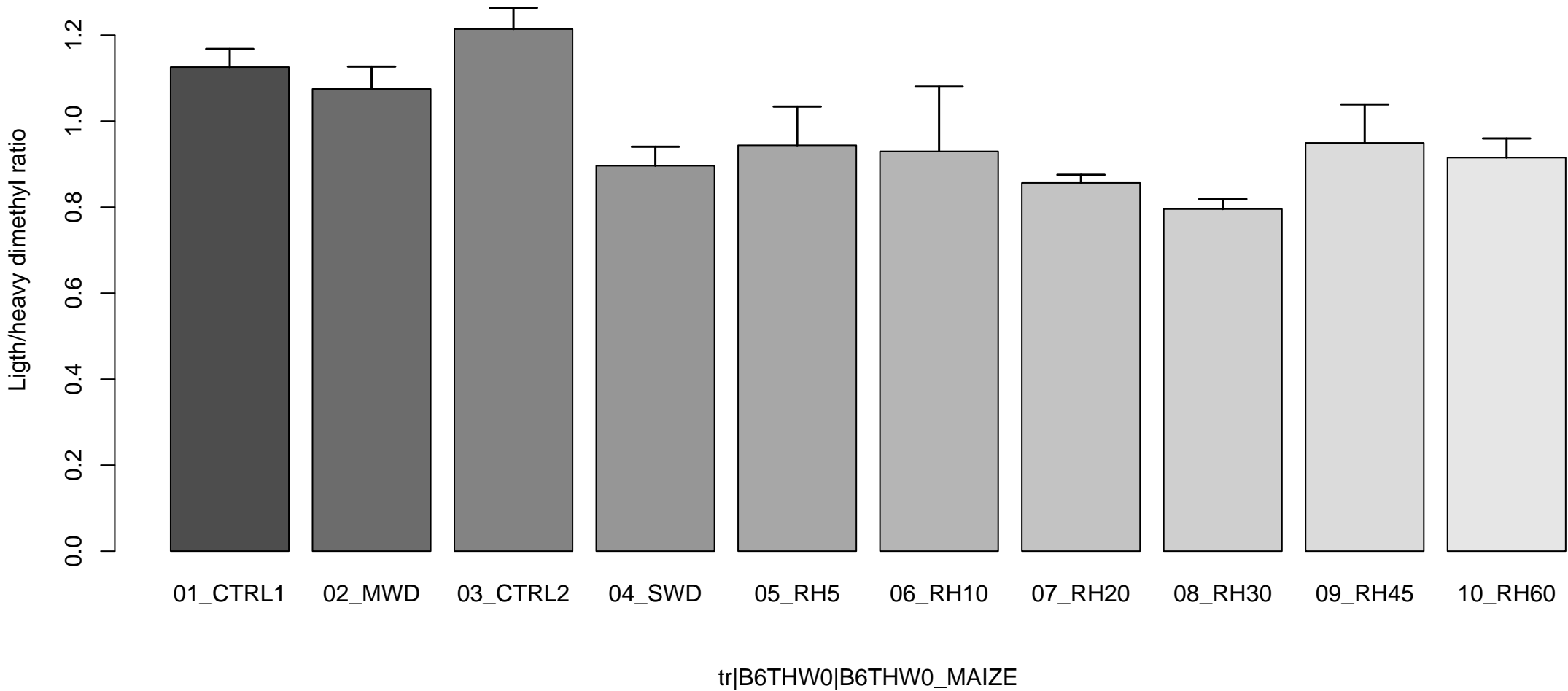


GRMZM2G443814\_P02

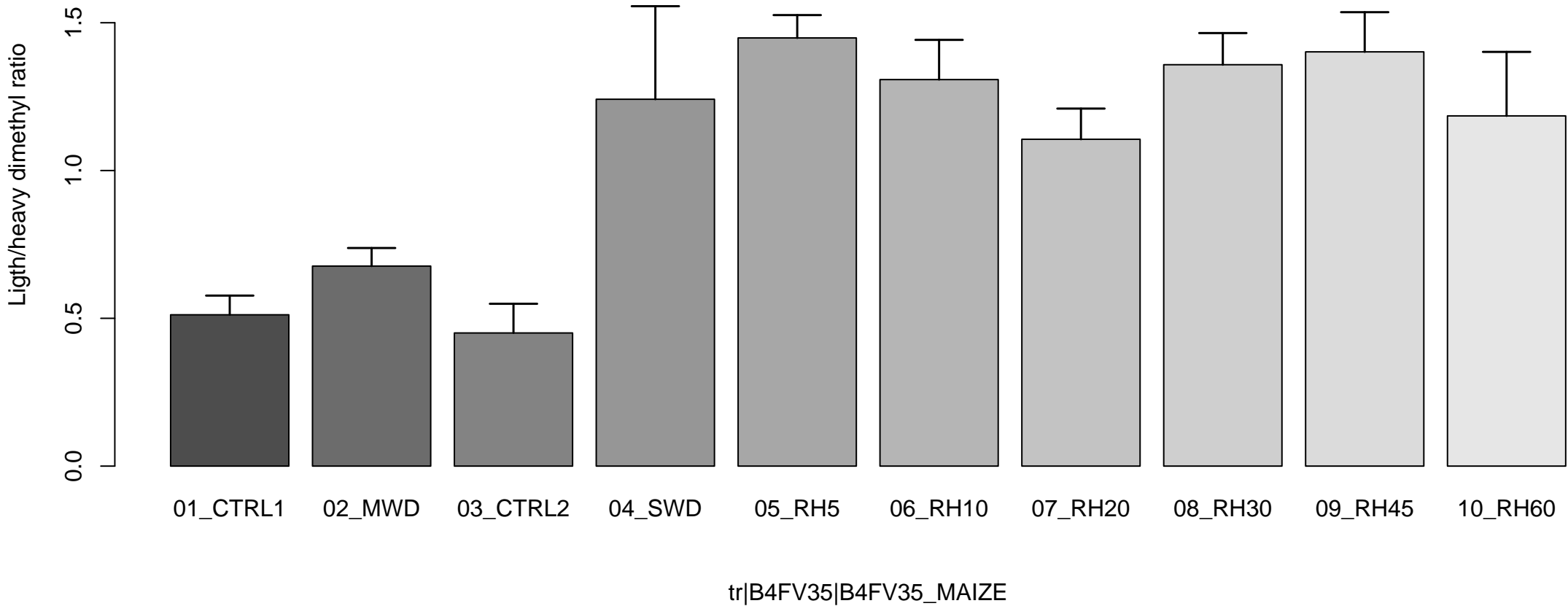
### Water-stress protein # T328



### Putative uncharacterized protein # S35

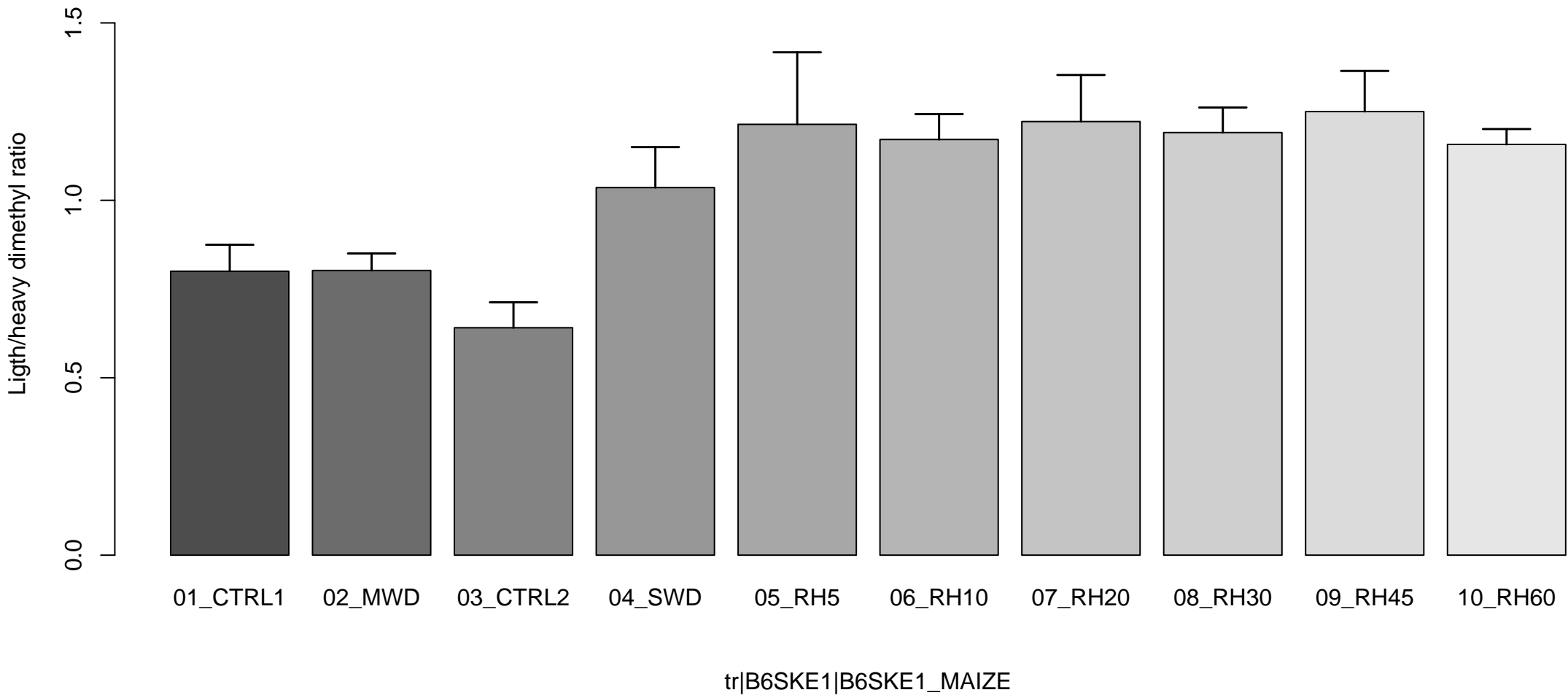


### Putative uncharacterized protein # S46/S47

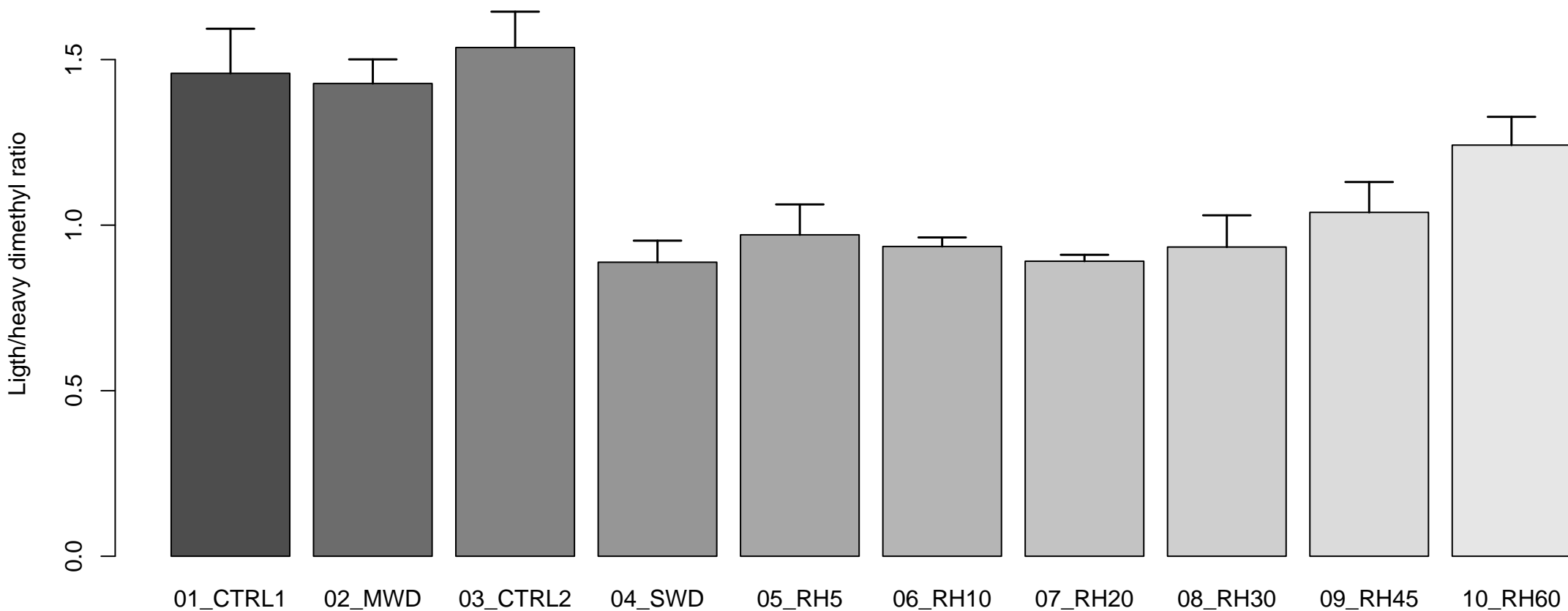




### Sterol 3-beta-glucosyltransferase # S74/T75

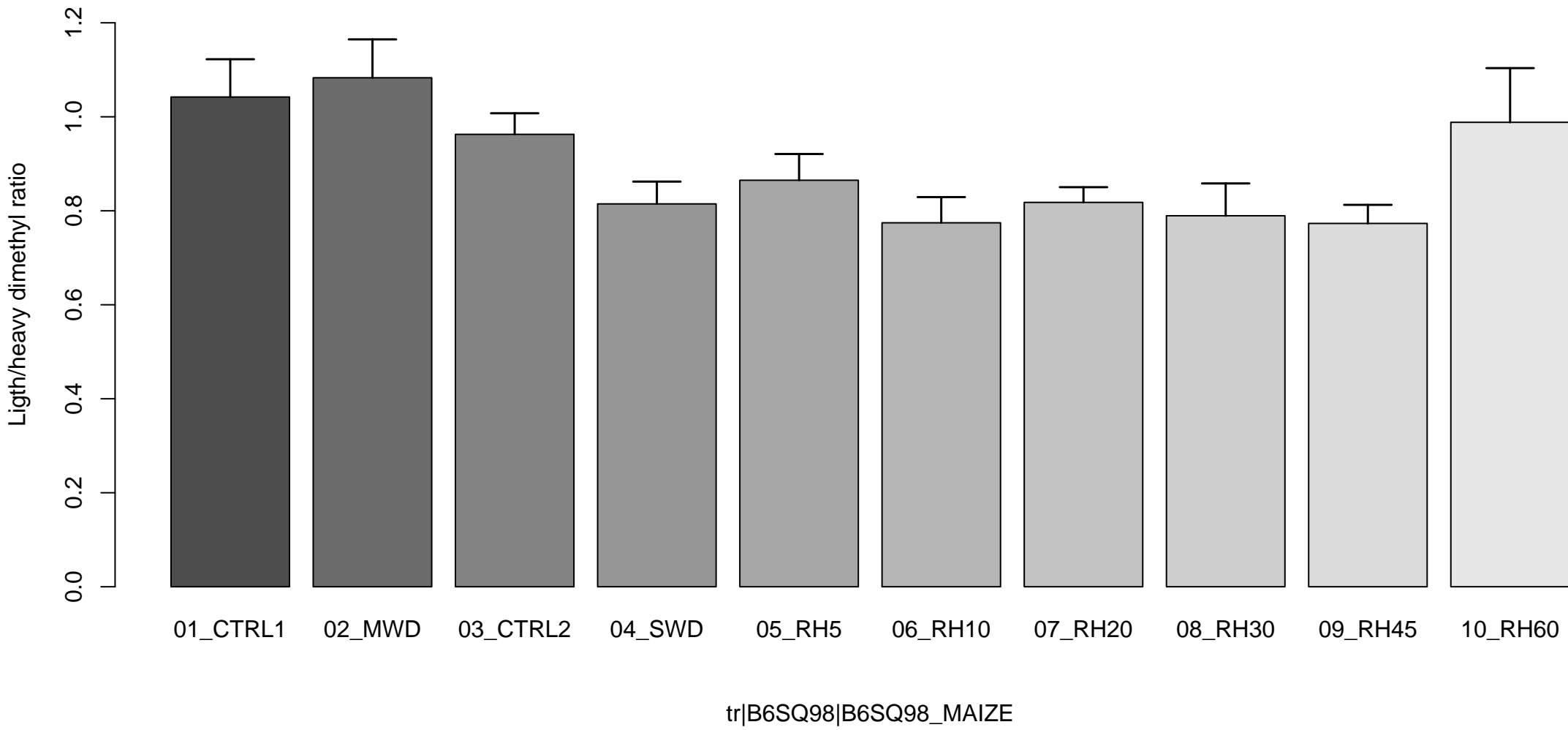


# Putative uncharacterized protein (IPR001005 SANT, DNA-binding) # S56

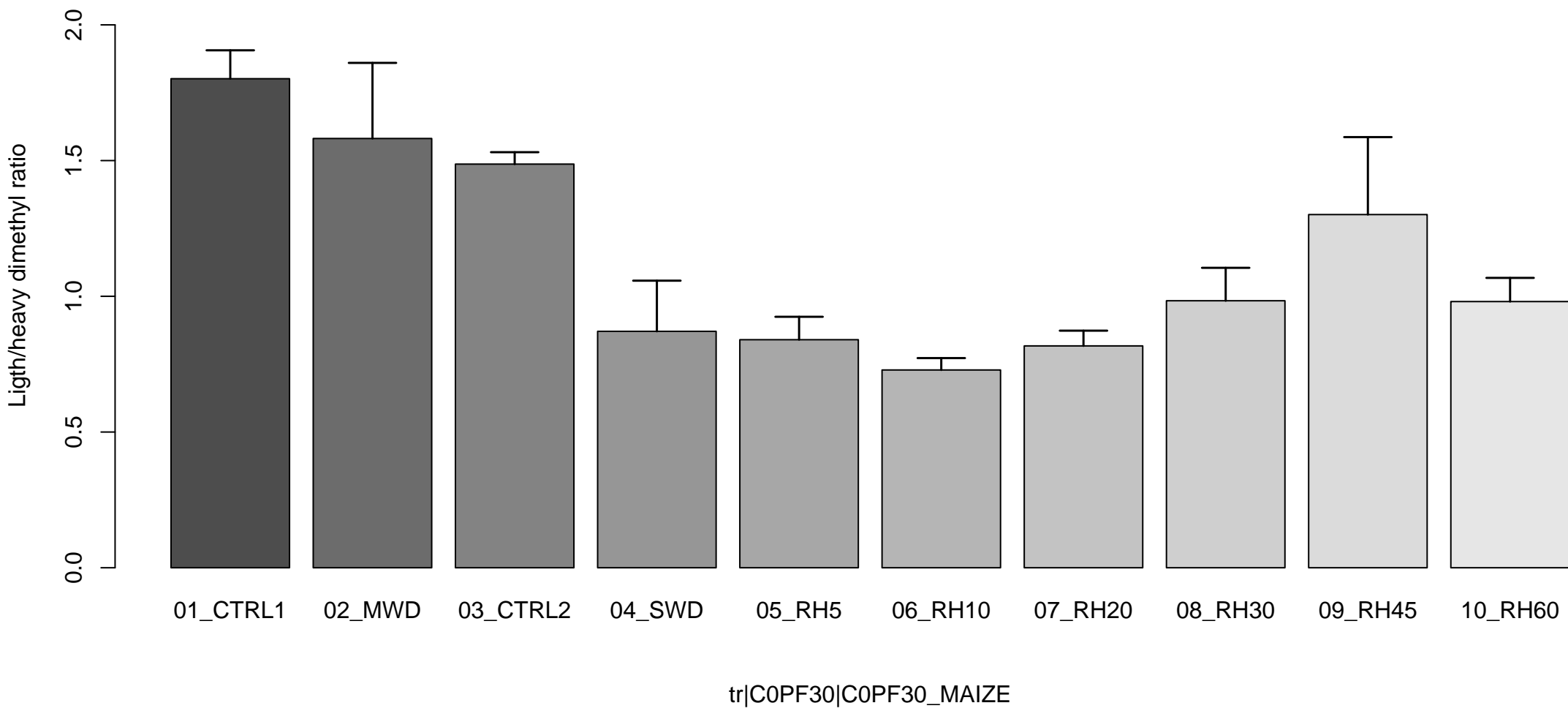


GRMZM2G334722\_P01

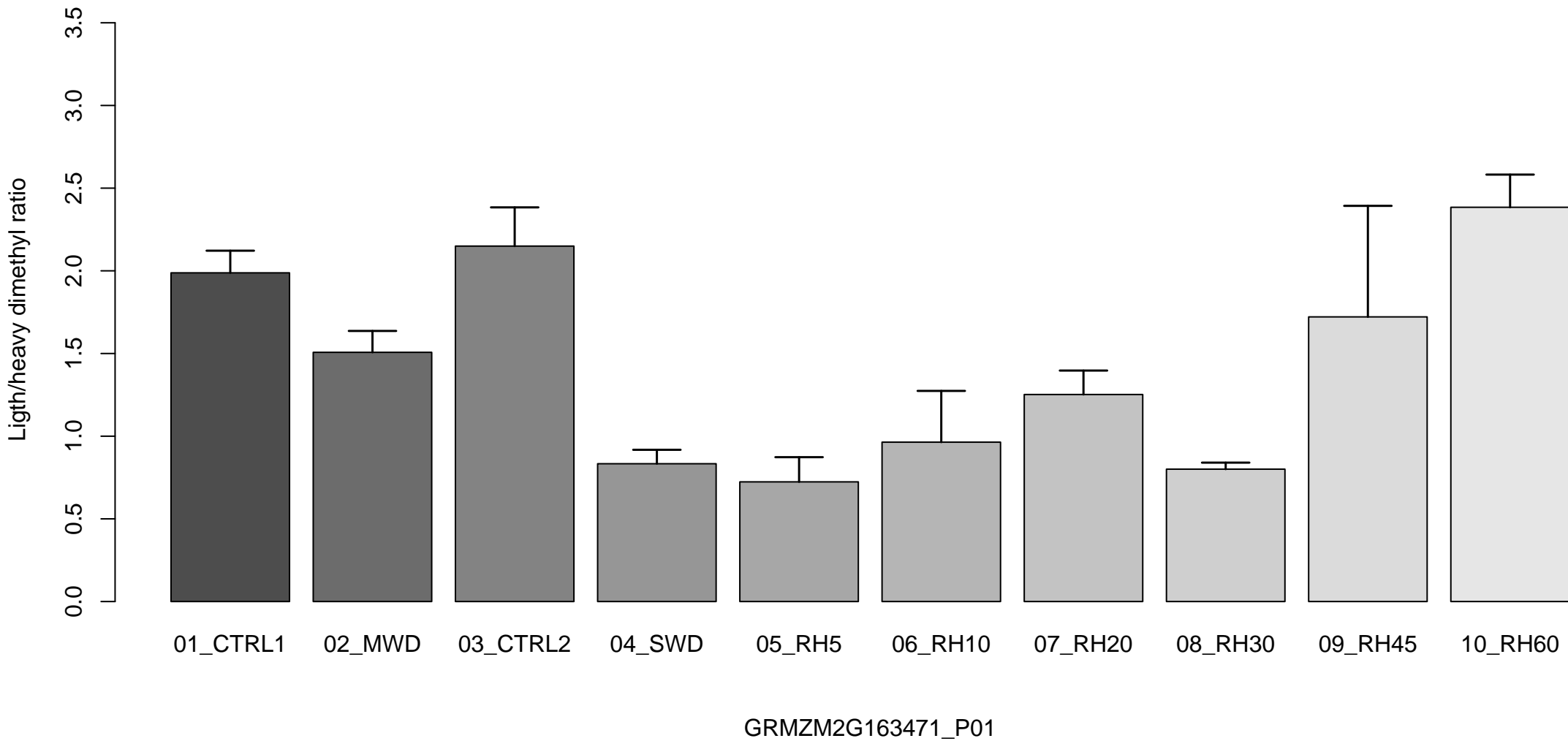
### Protein phosphatase inhibitor 2 containing protein # S5



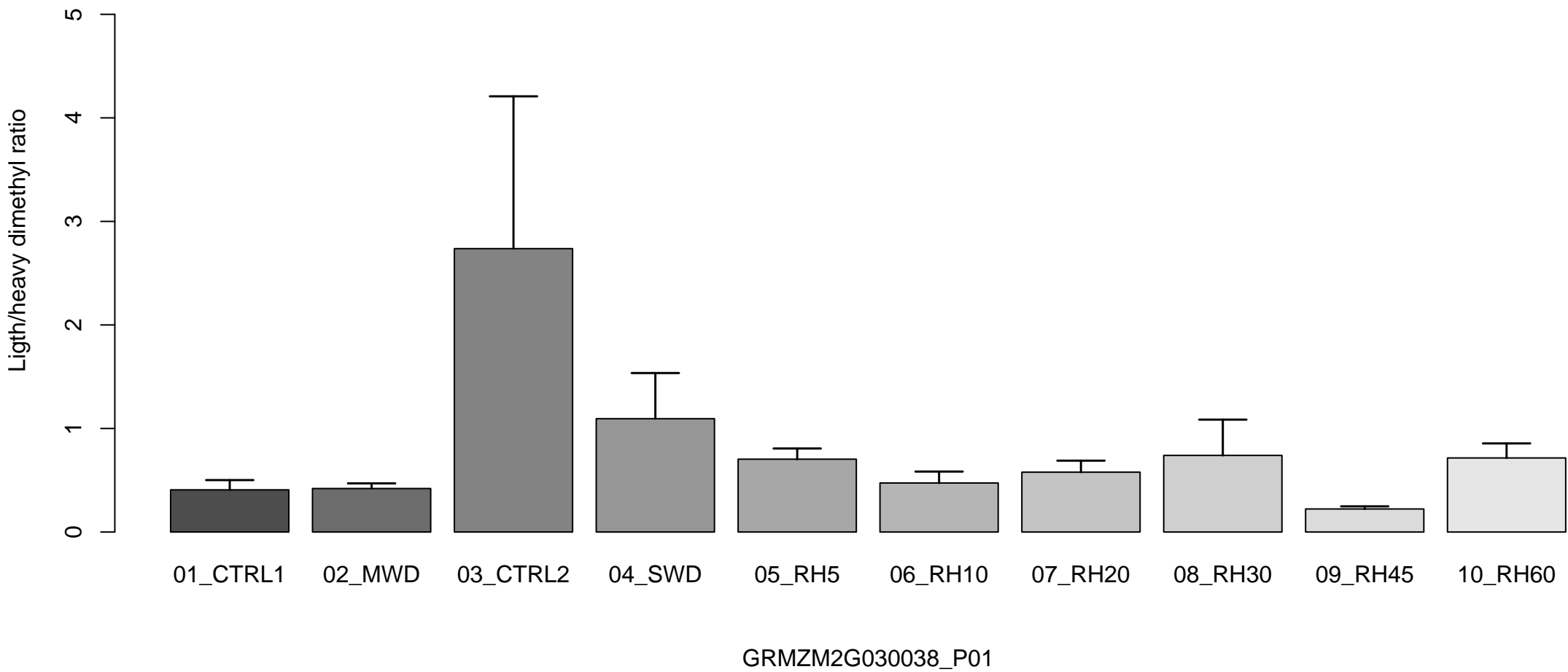
### Putative uncharacterized protein # S220



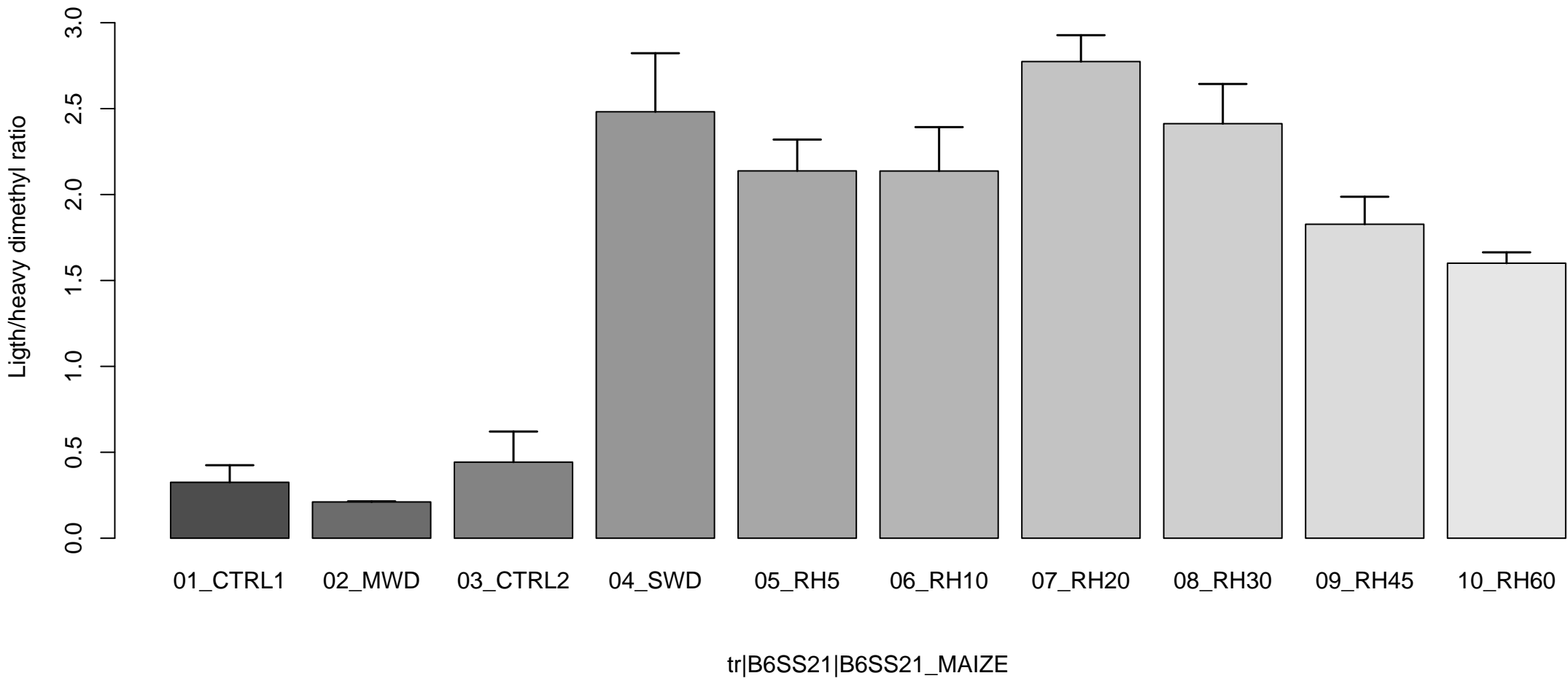
### Eukaryotic translation initiation factor 4B # T274



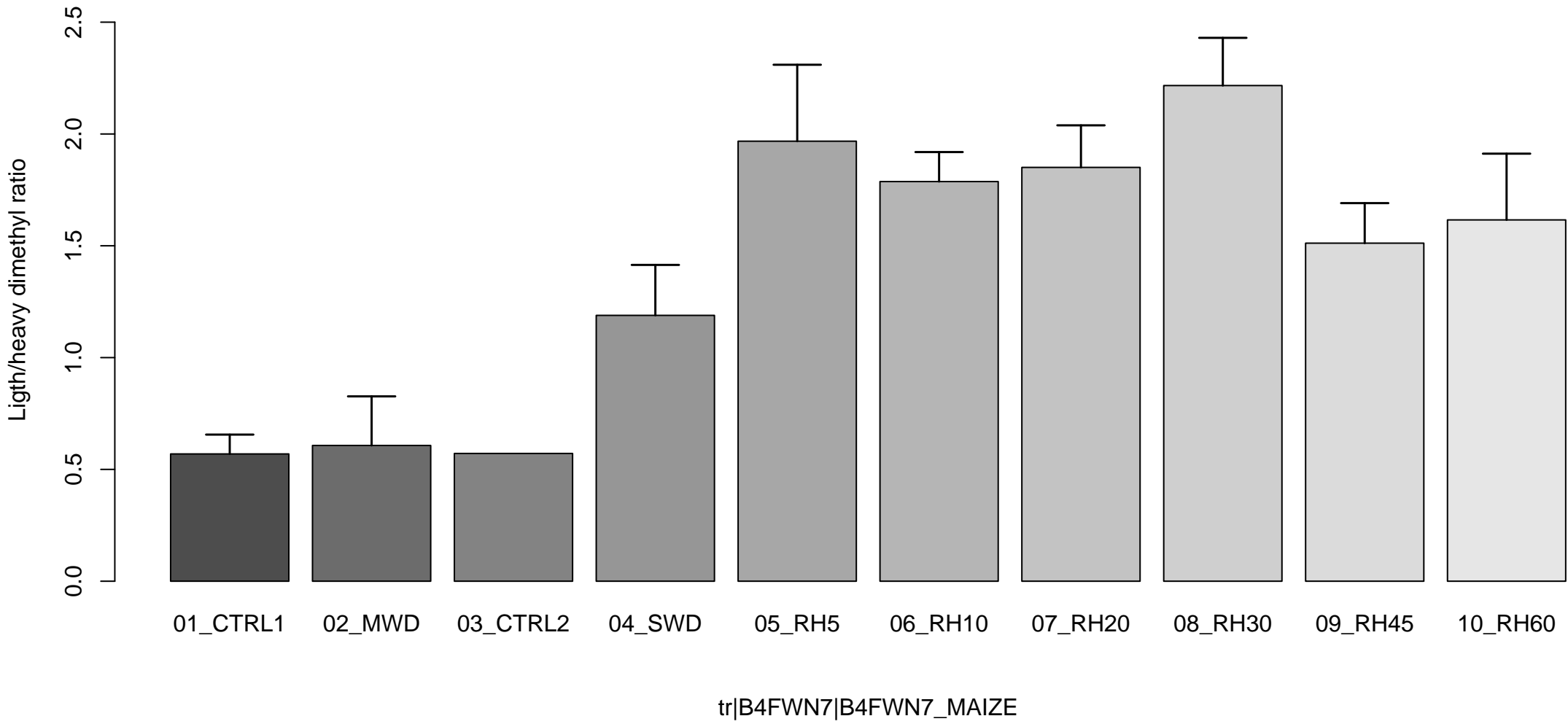
### Putative uncharacterized protein # S25



# Dehydrin COR410 # T194

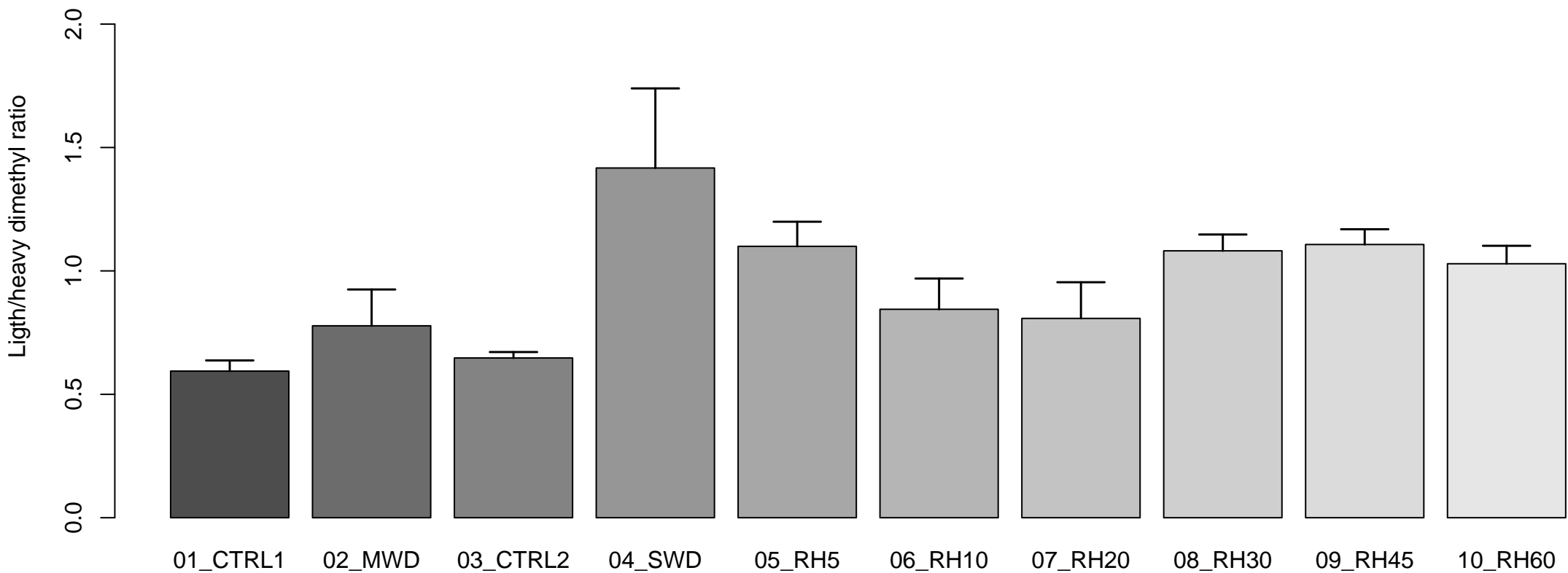


### Lectin-like protein # S33/T35



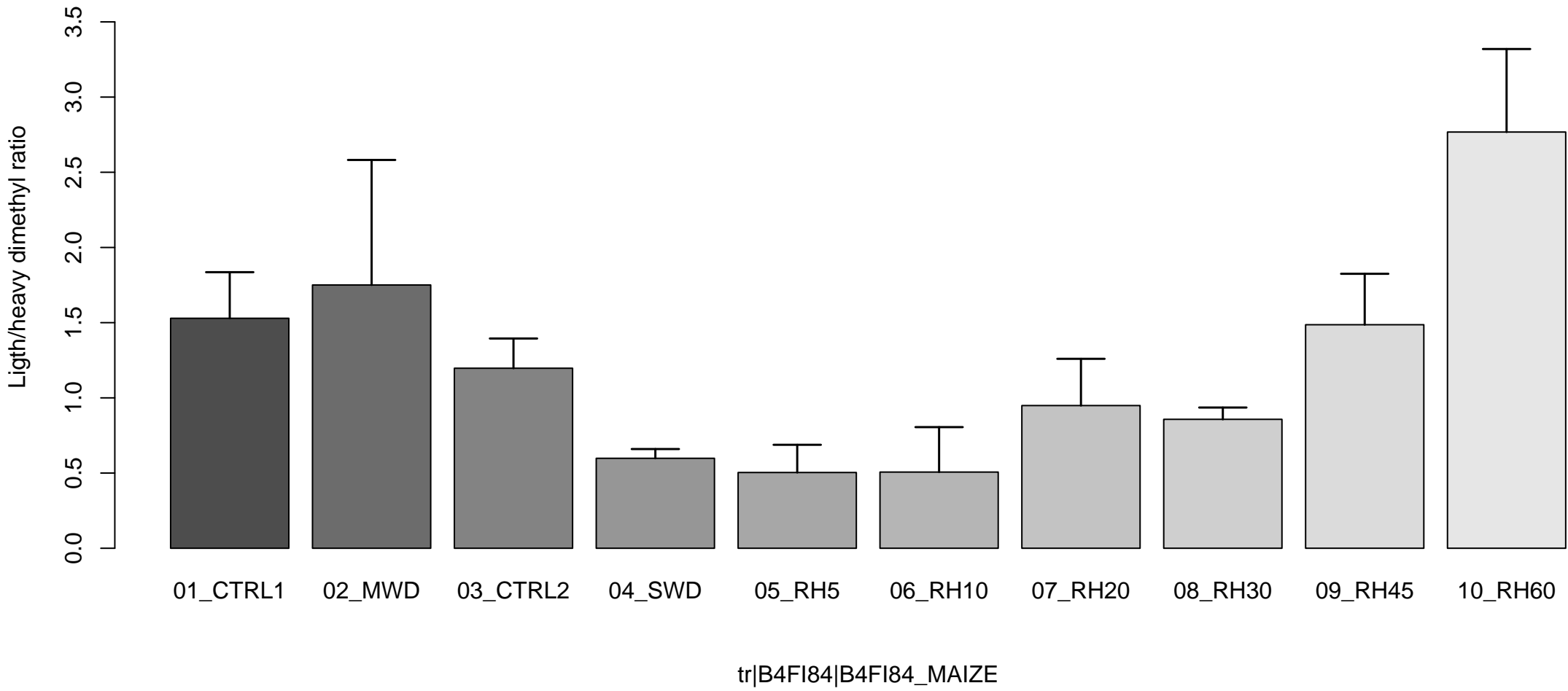


# SnRK2.4 # S158

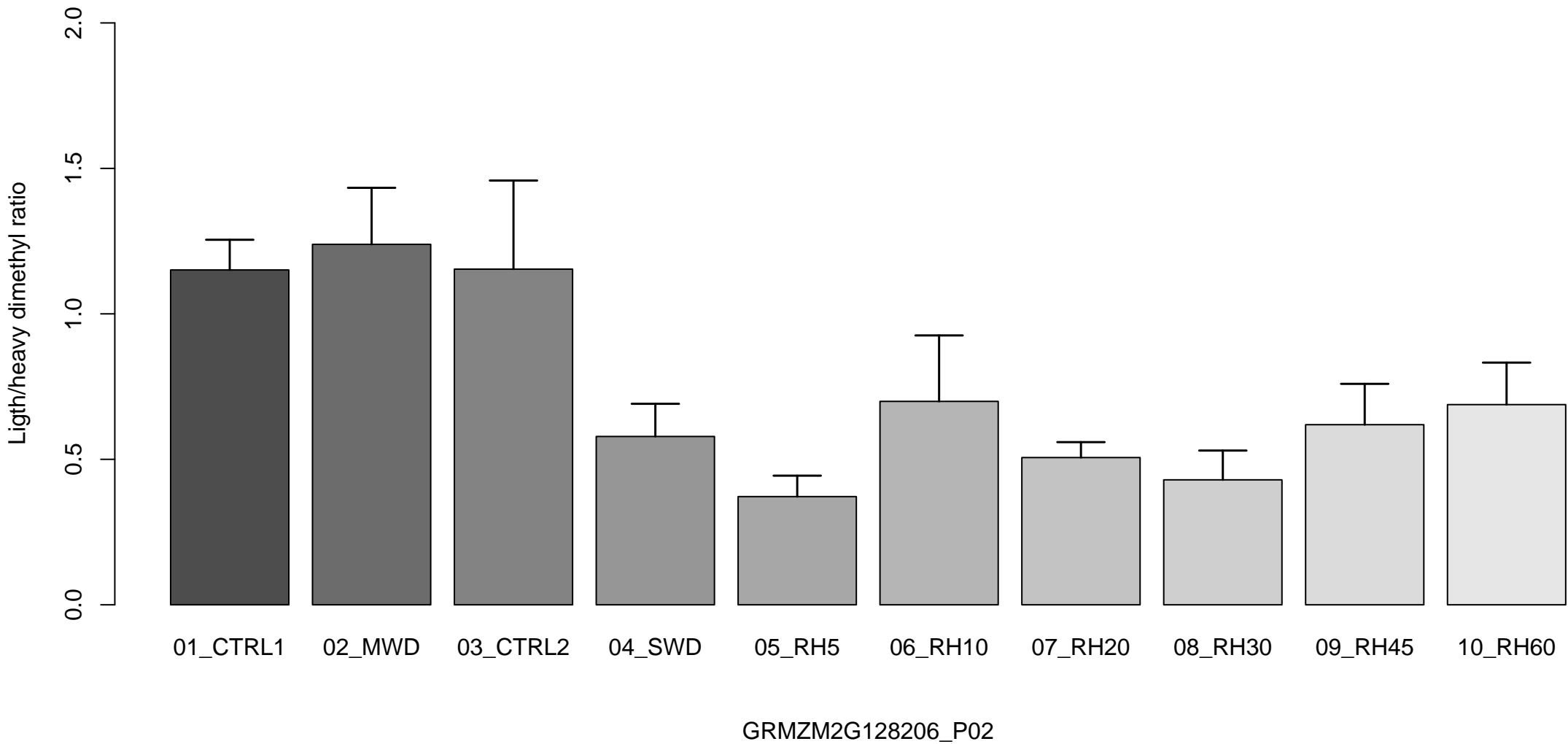


GRMZM2G110922\_P04

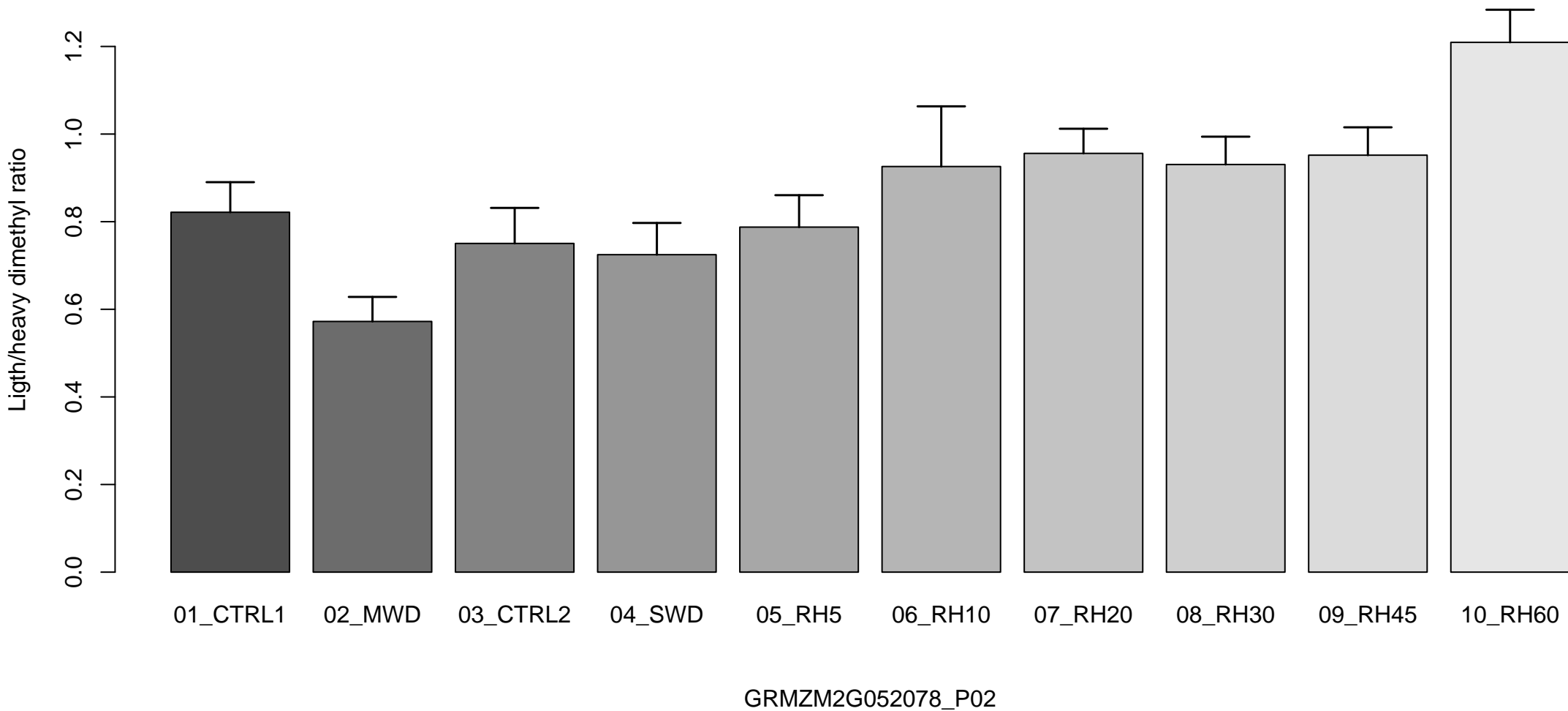
### GCK-like kinase MIK # S204



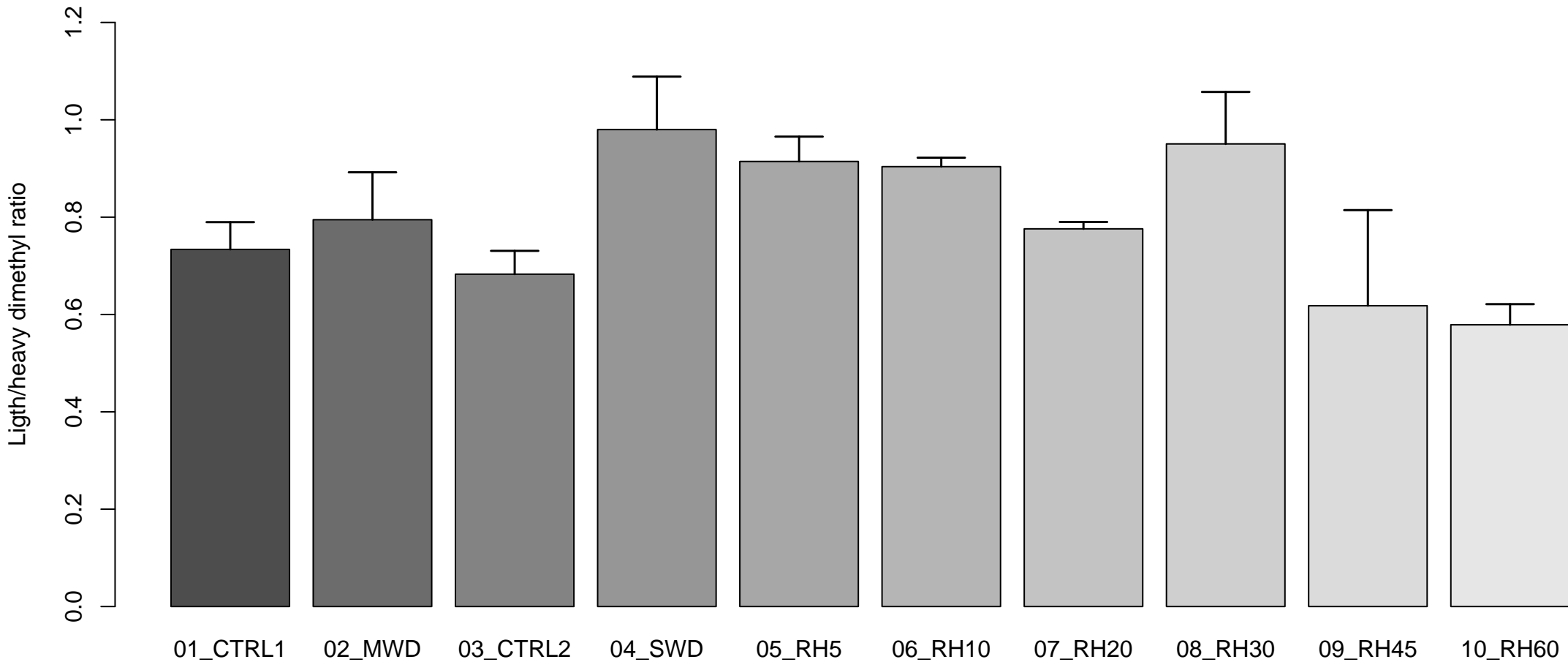
### Pollen-specific protein SF3 # S79



### CLIP-associating protein 1-like # S1152, T1161

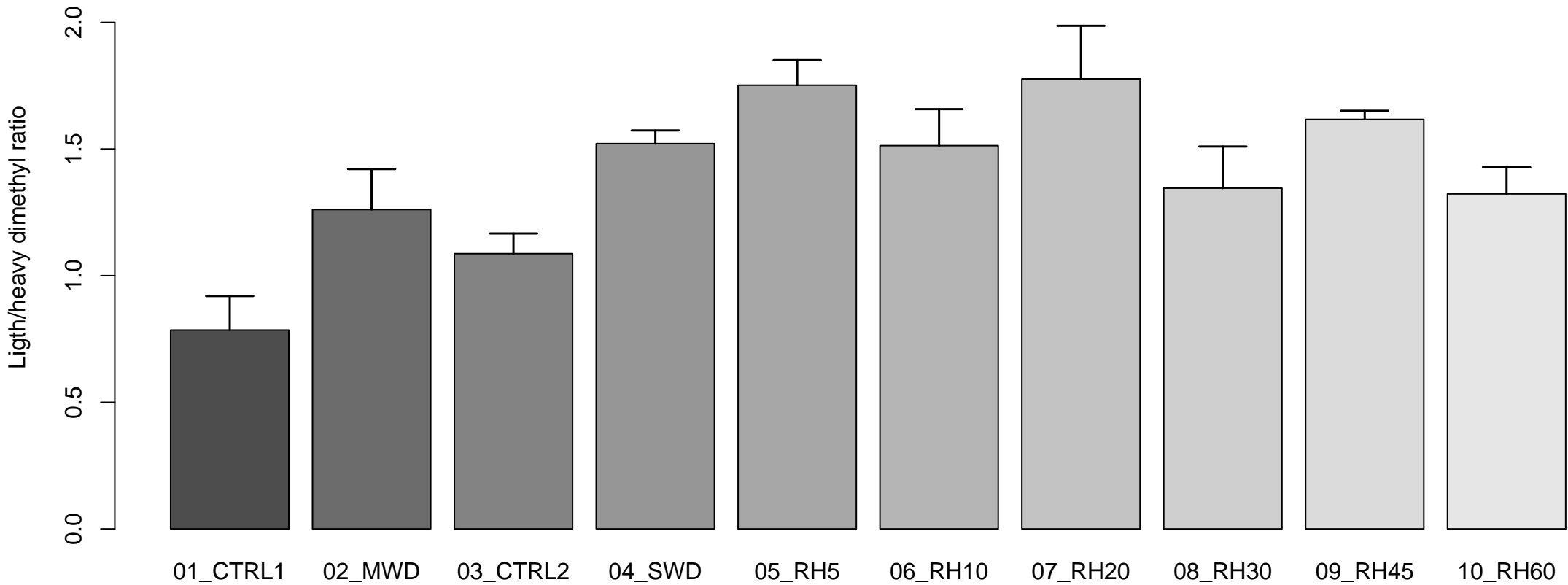


### Bromo-adjacent homology (BAH) domain-containing protein-like # S744



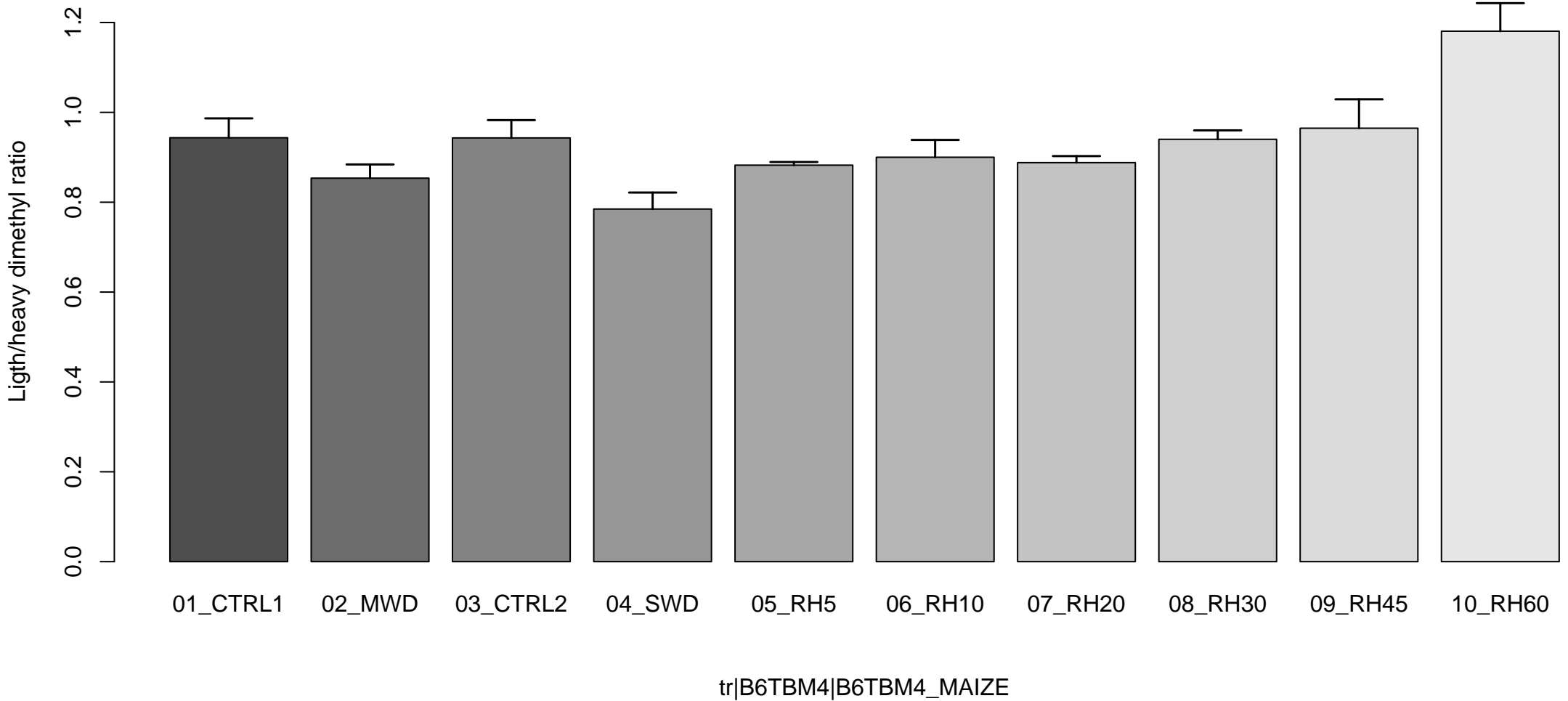
GRMZM2G704338\_P02

### Calmodulin binding protein # S345

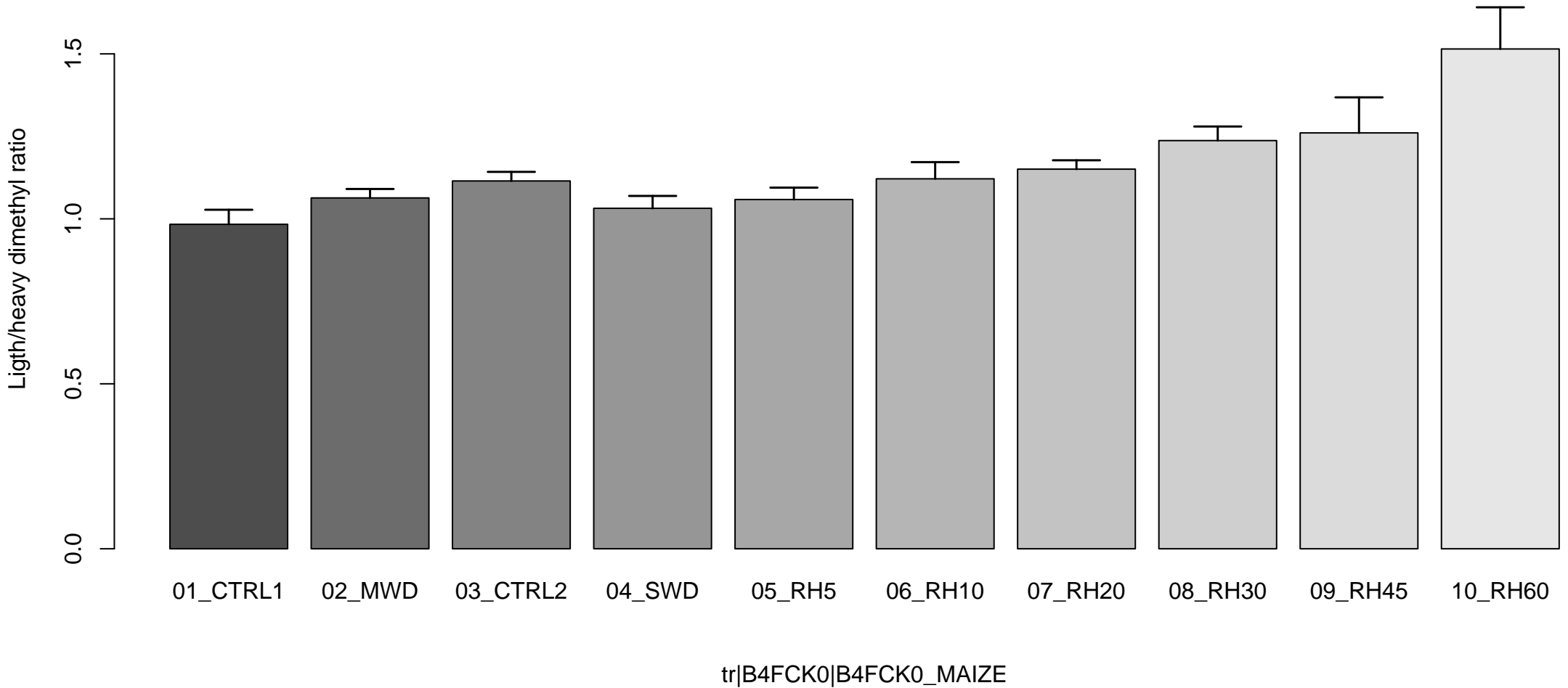


GRMZM2G406674\_P02

### USP family protein # S35

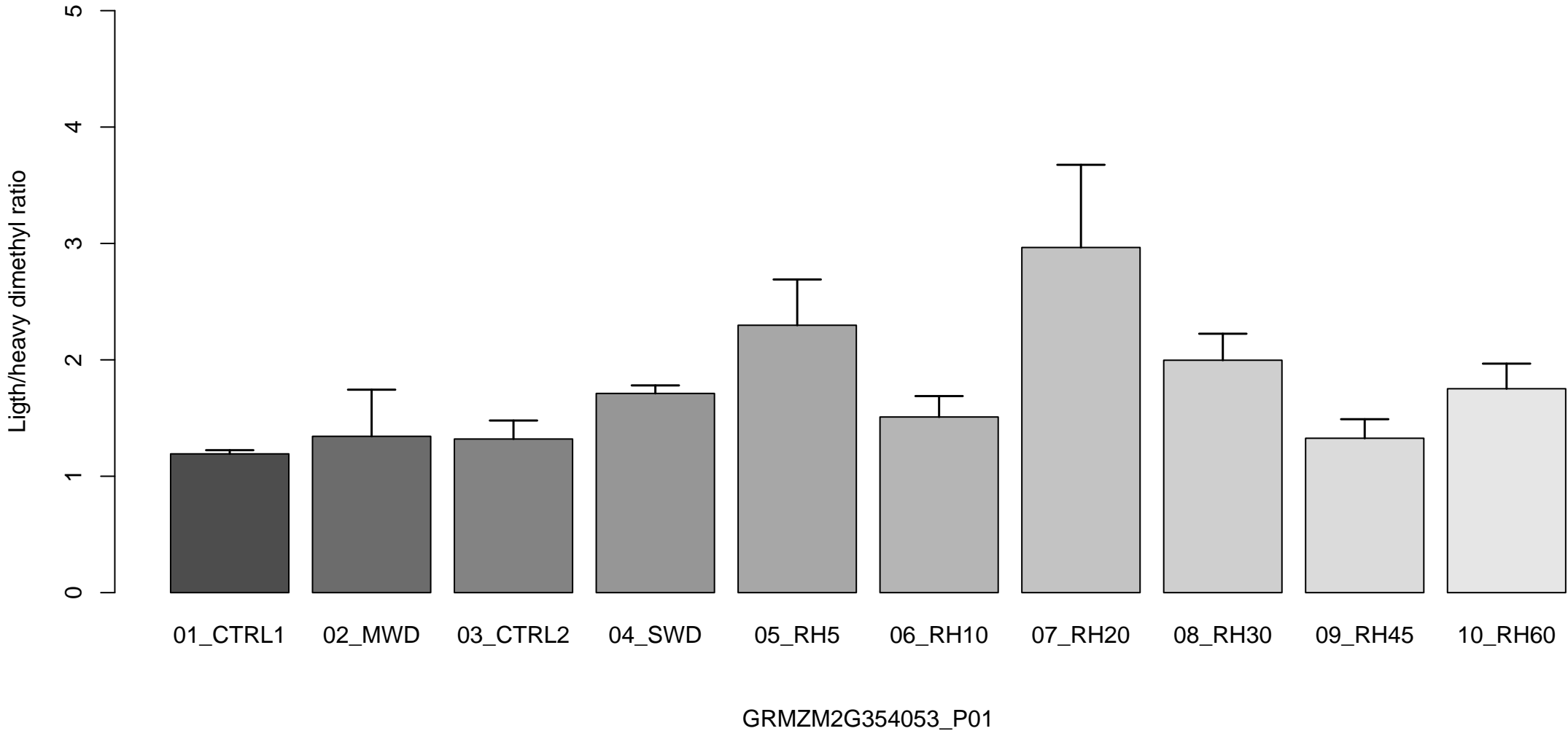


### USP family protein # S30

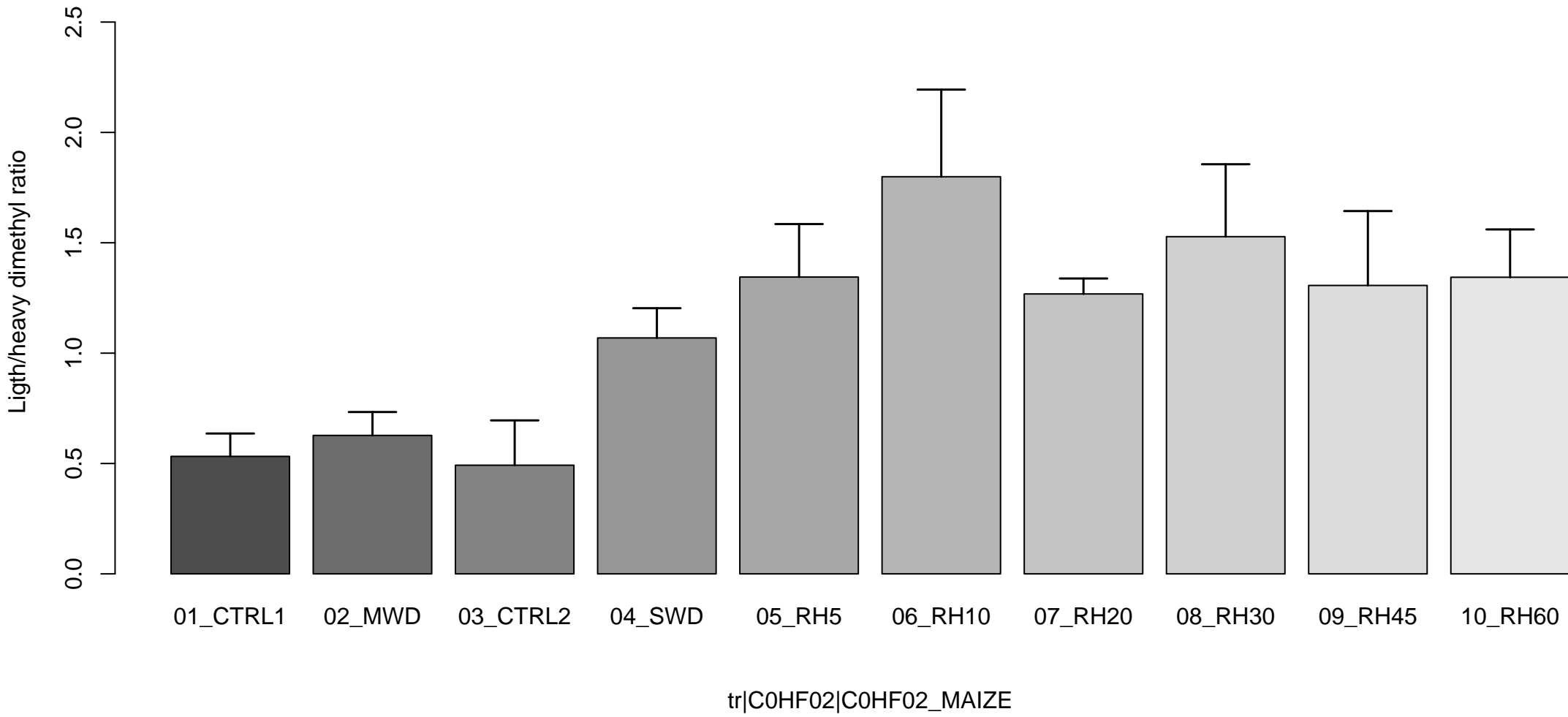




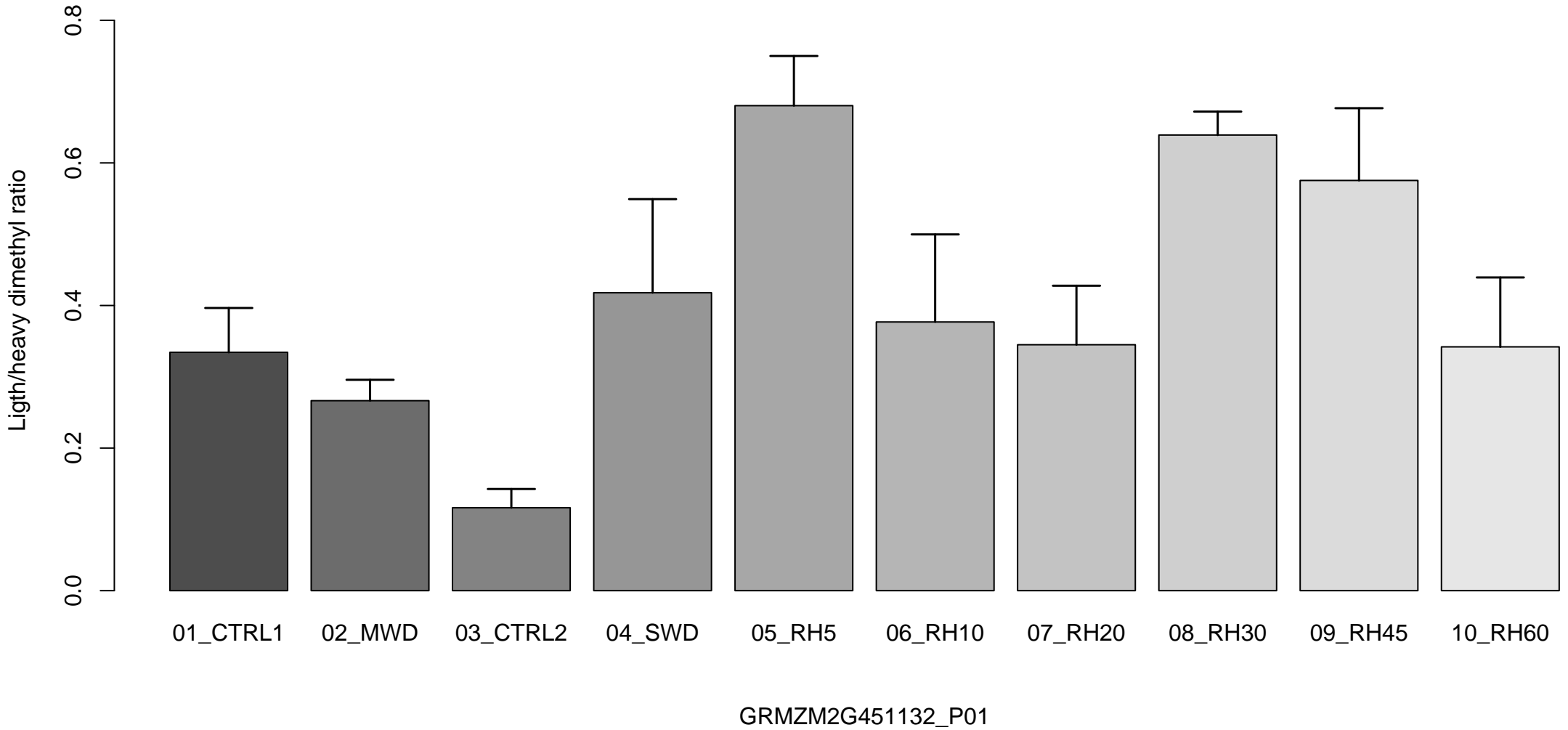
### Putative uncharacterized protein # T665



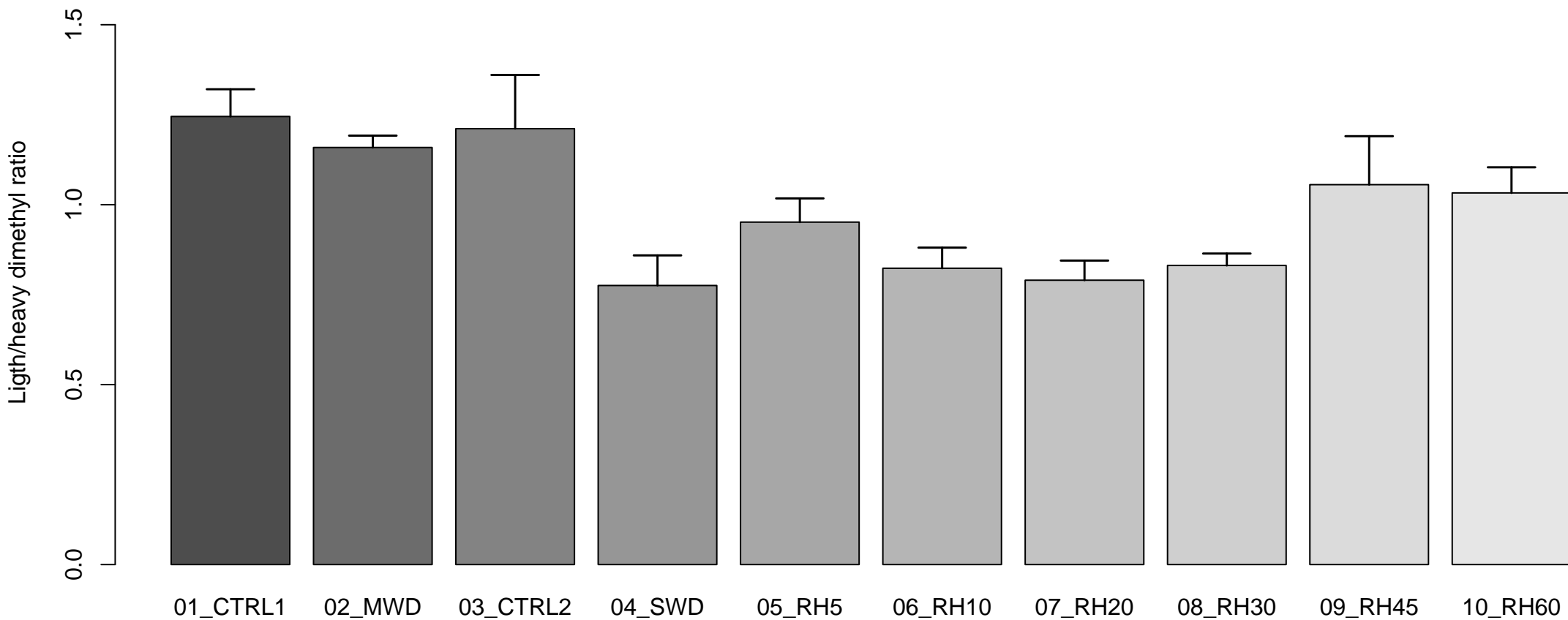
### Chlorophyll a/b-binding protein CP29 # T112



### Serine/threonine-protein kinase ctr1 # T433

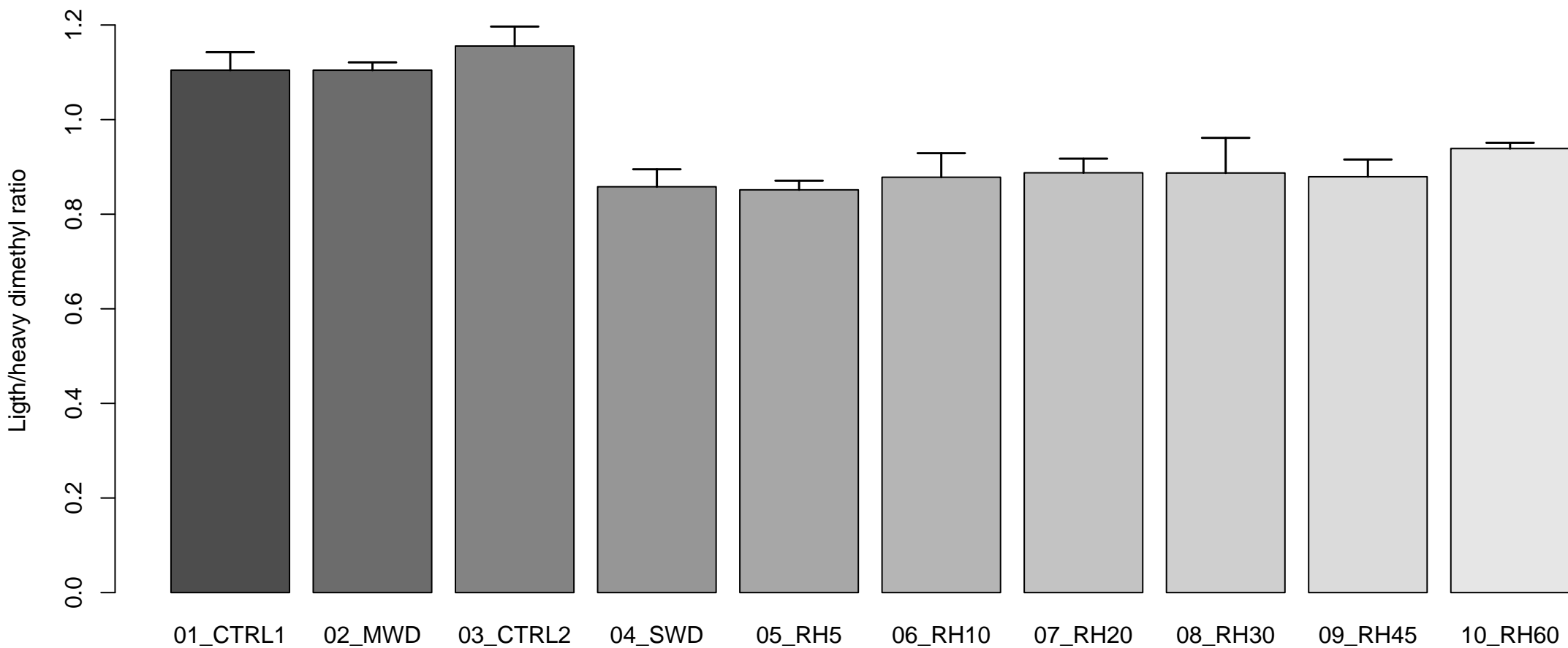


### Protein TIME FOR COFFEE # S1329



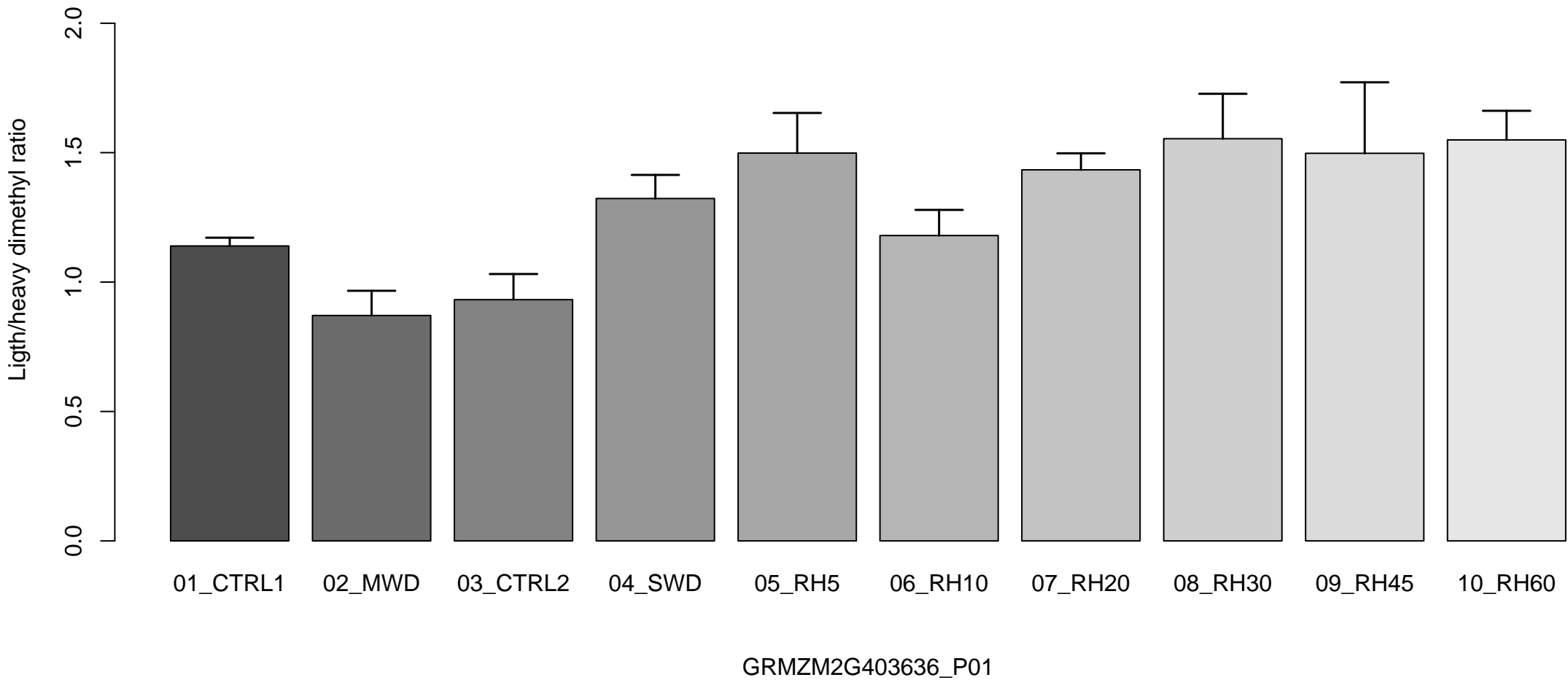
GRMZM2G360517\_P03

# Protein TIME FOR COFFEE # S1341

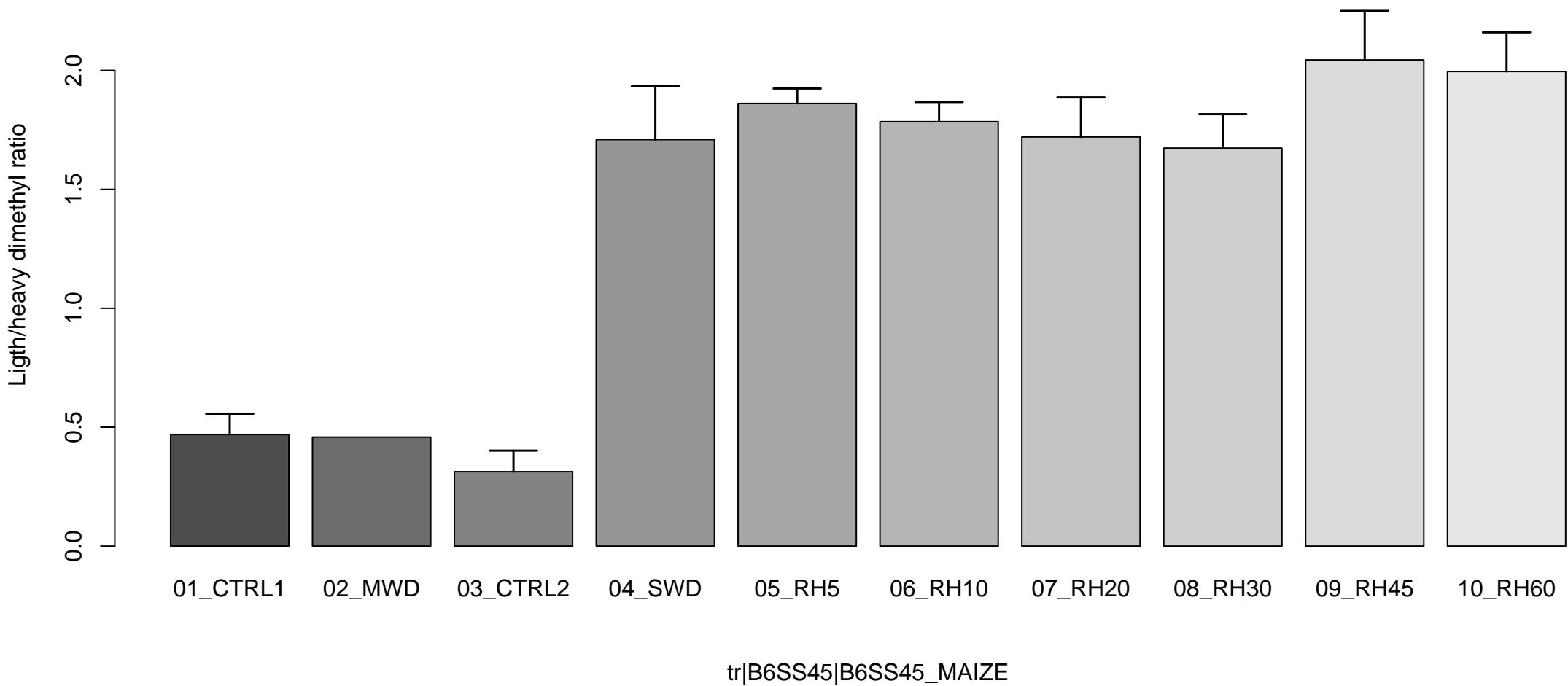


GRMZM2G360517\_P03

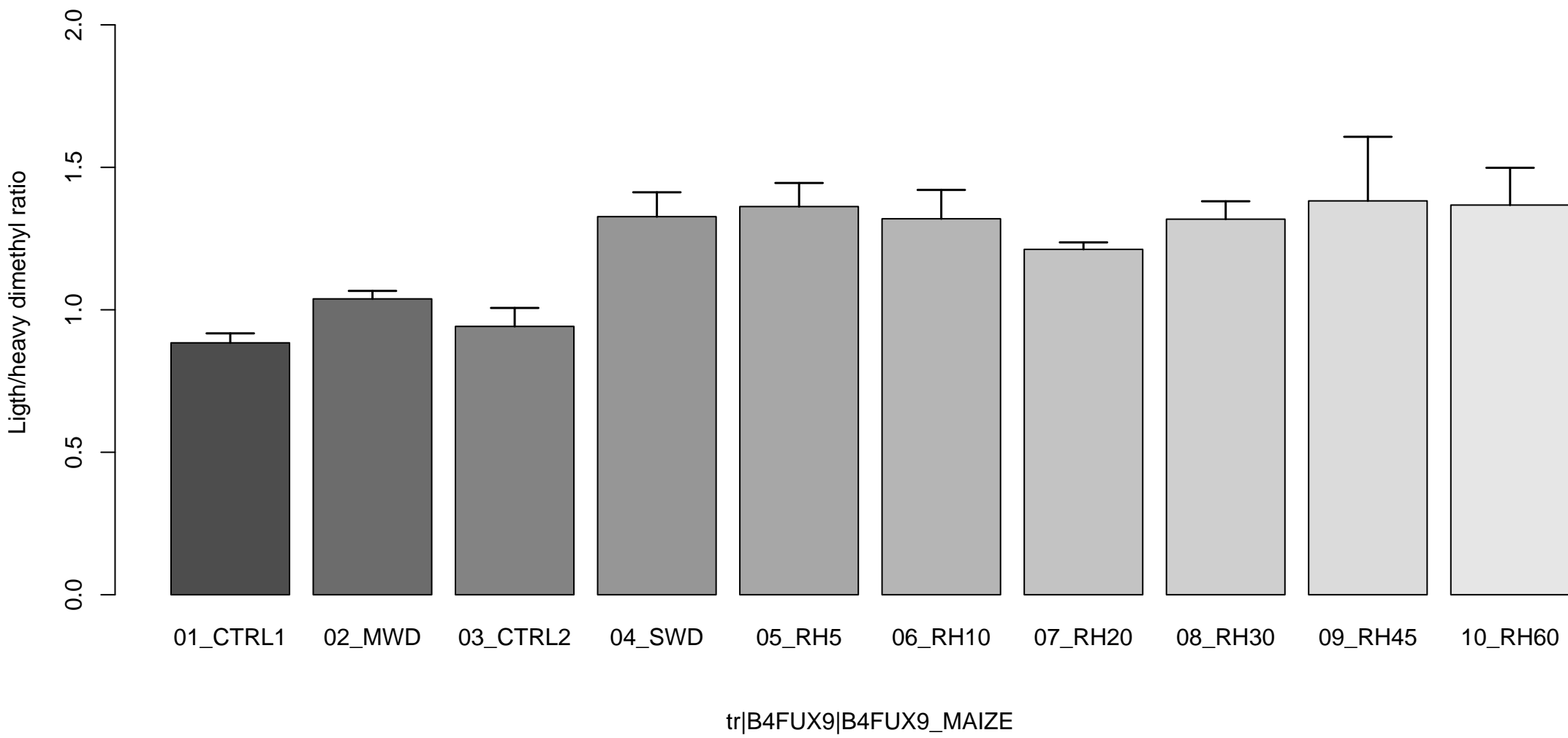
# DEAD-box ATP-dependent RNA helicase 52C # T71/S76



### Putative uncharacterized protein # S89/Y90/S91

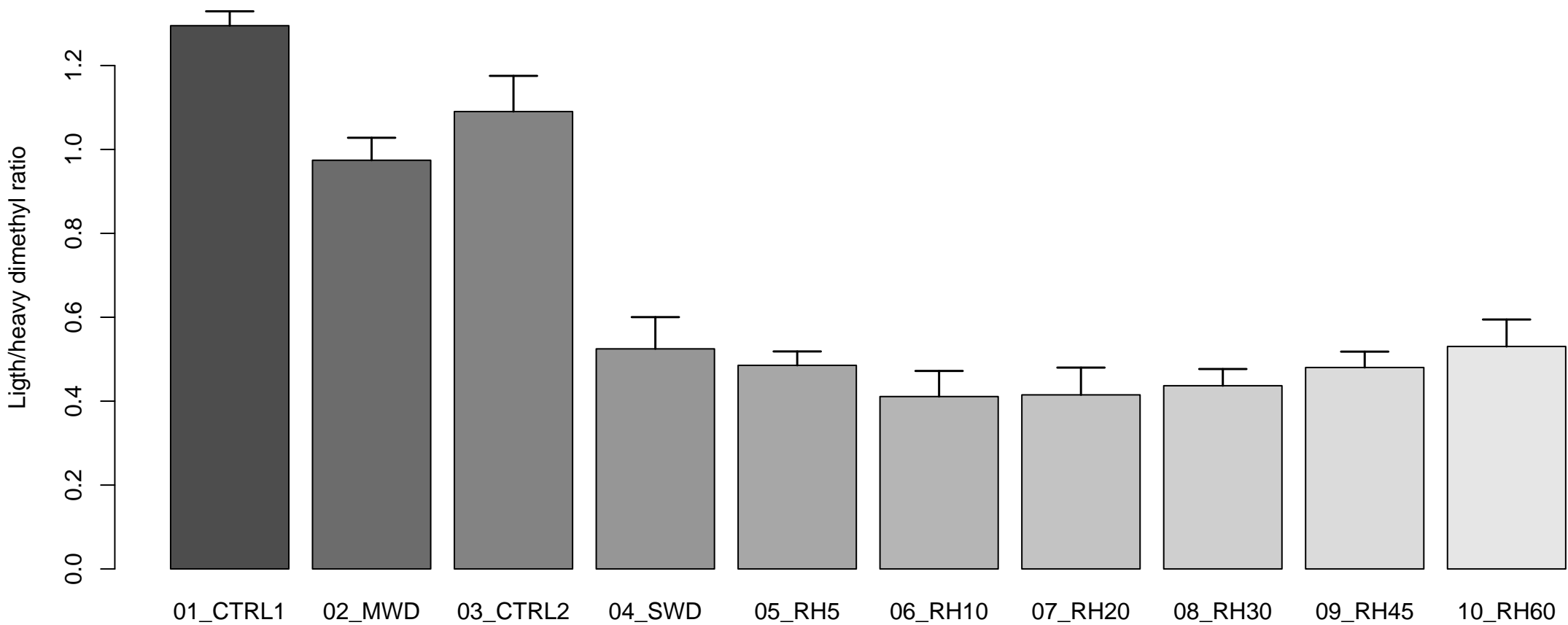


### Putative uncharacterized protein # S68



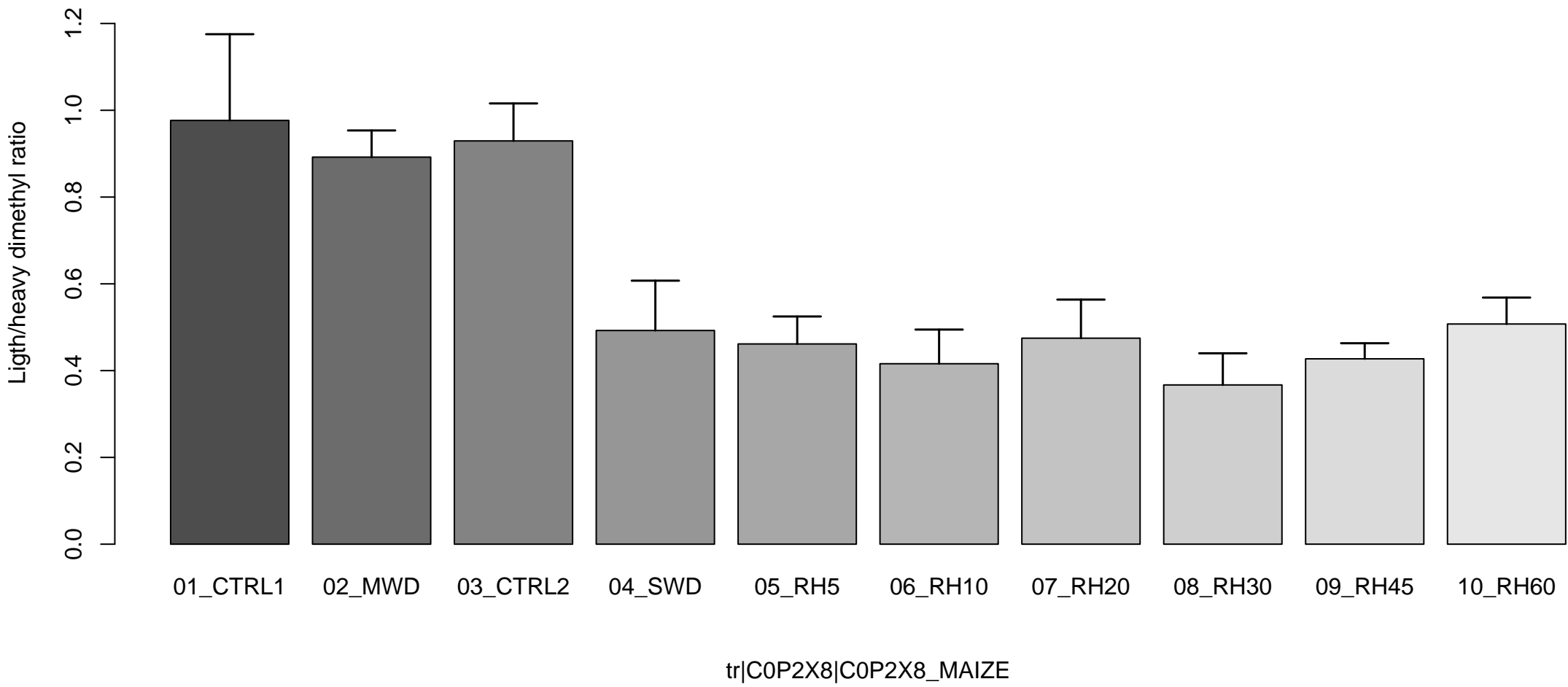


### Histone deacetylase 2b # S101

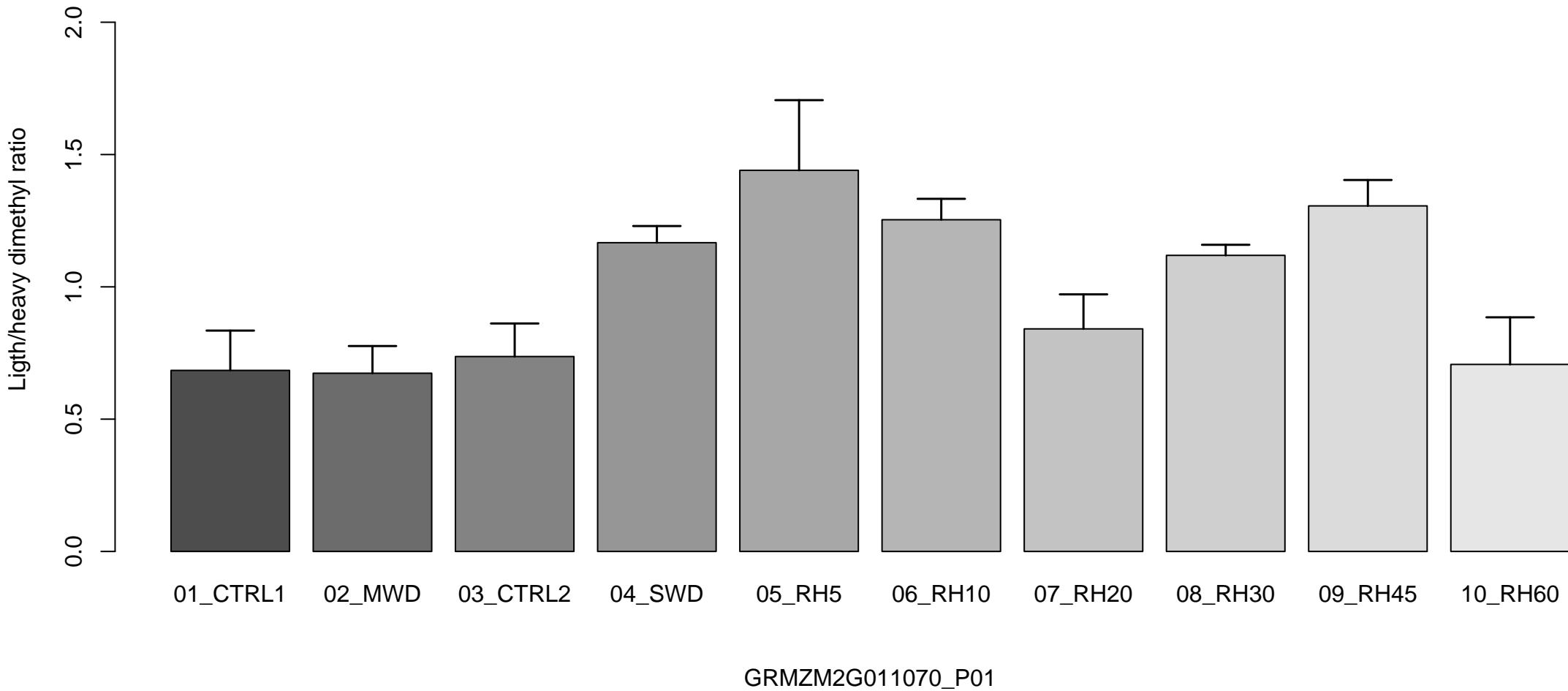


GRMZM2G159032\_P04

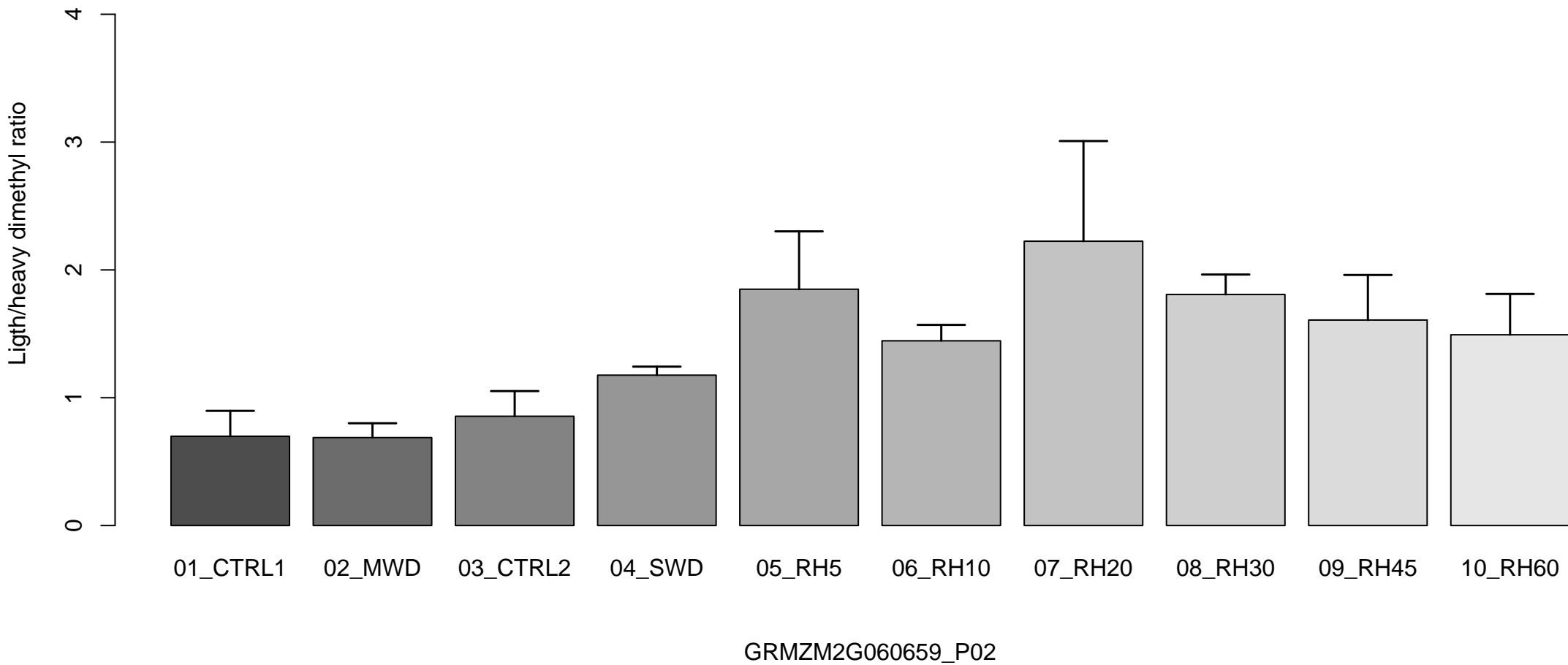
### Putative uncharacterized protein # S50



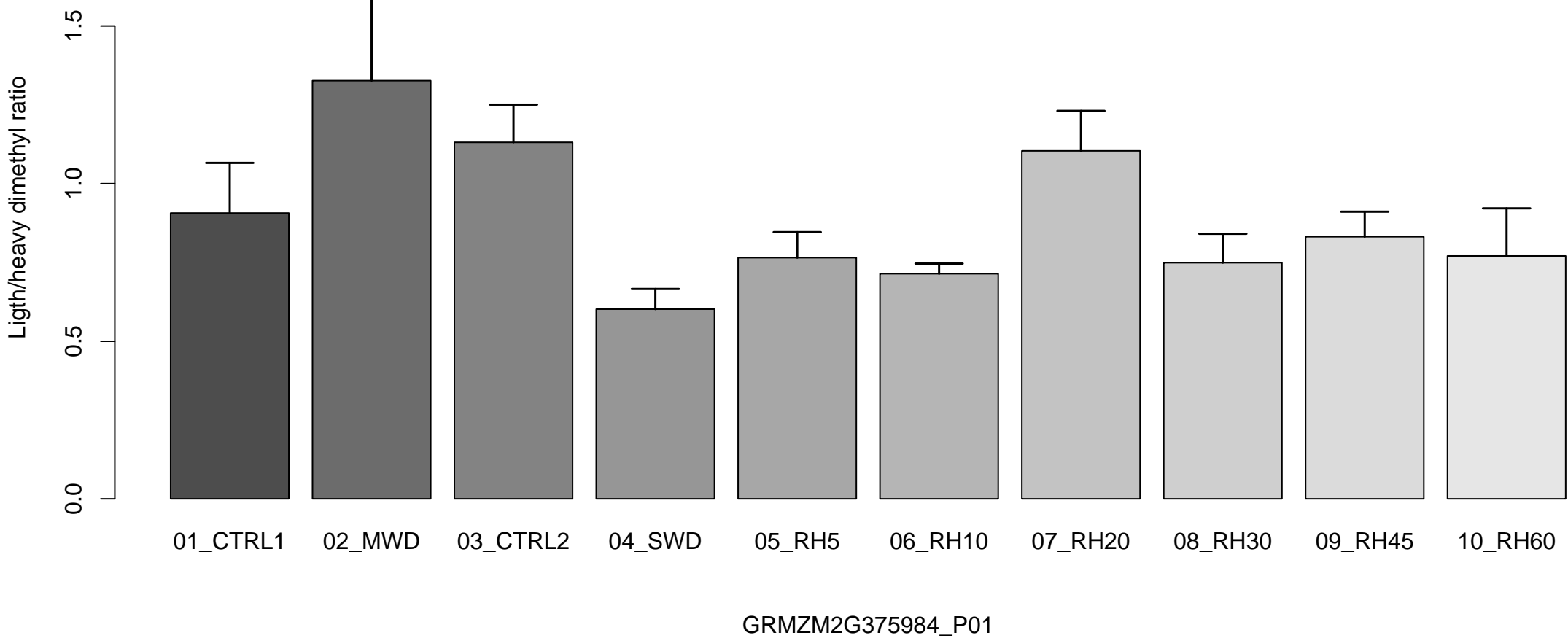
### Salt-inducible protein kinase # S431



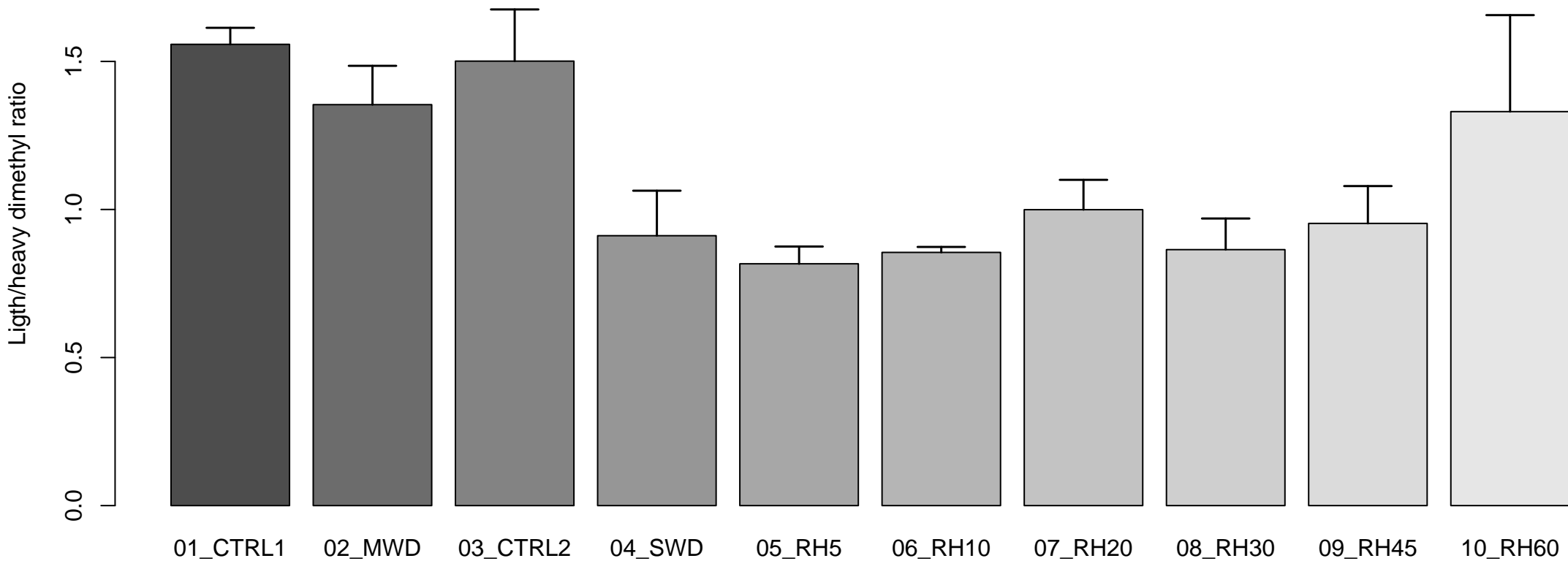
### Sucrose synthase 3 # T846



### Protein DEK, putative # S115

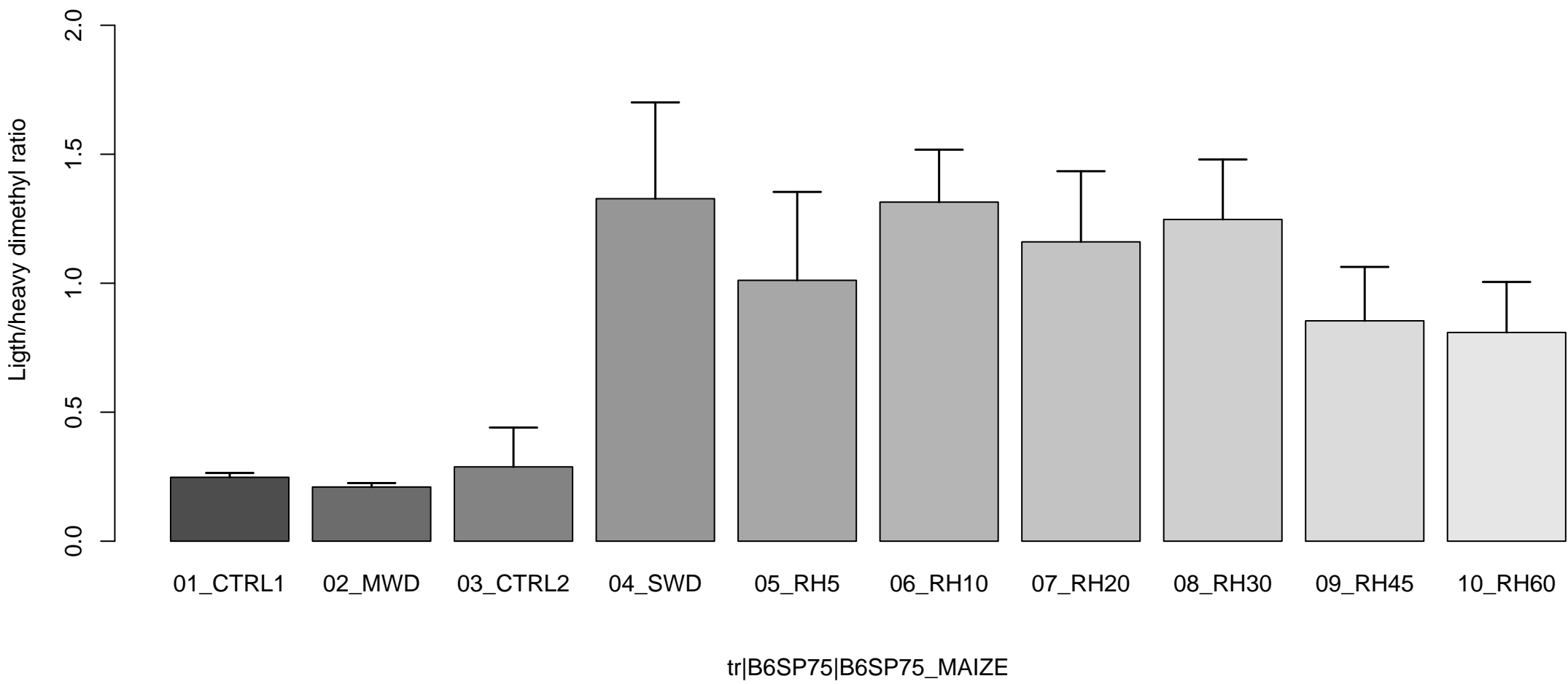


### Microtubule-associated protein MAP65-1a # S557

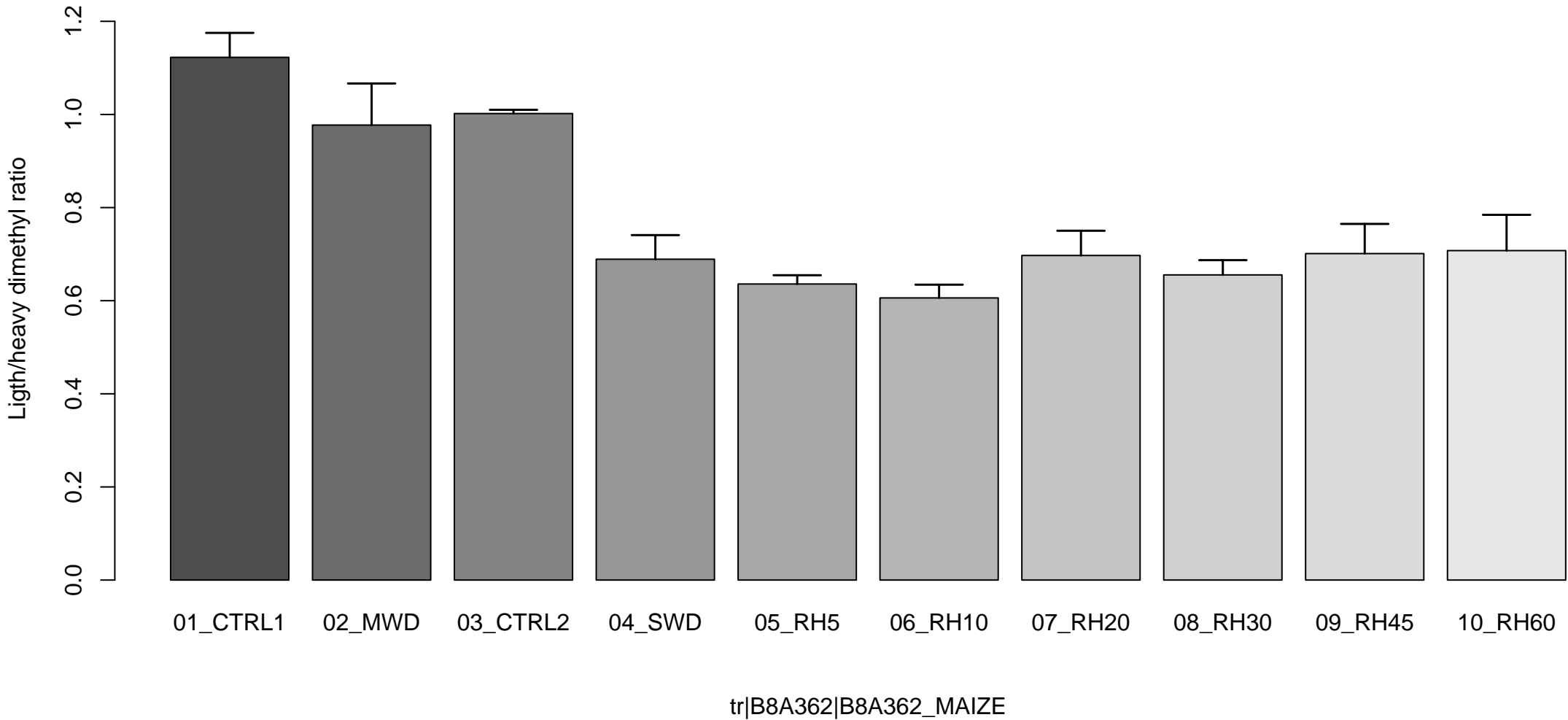


GRMZM2G465169\_P01

### Putative uncharacterized protein # S66

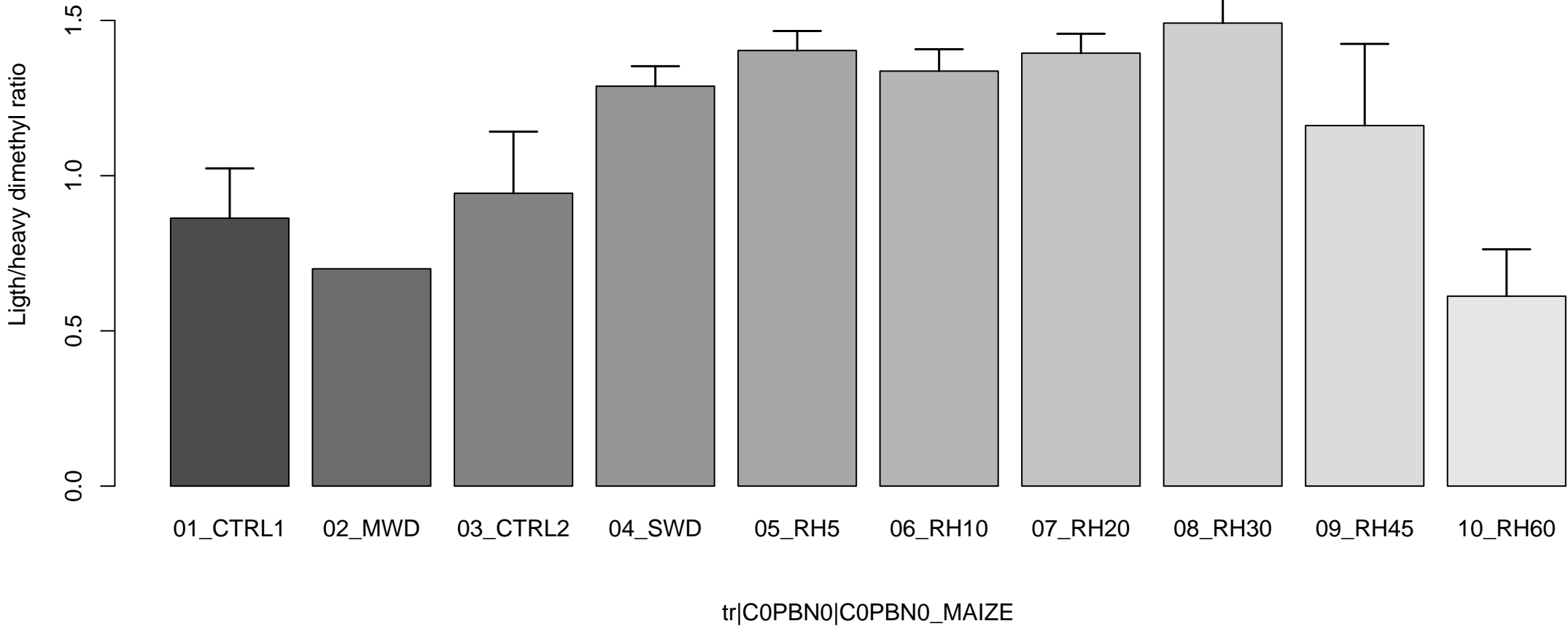


### DnaJ protein # T377

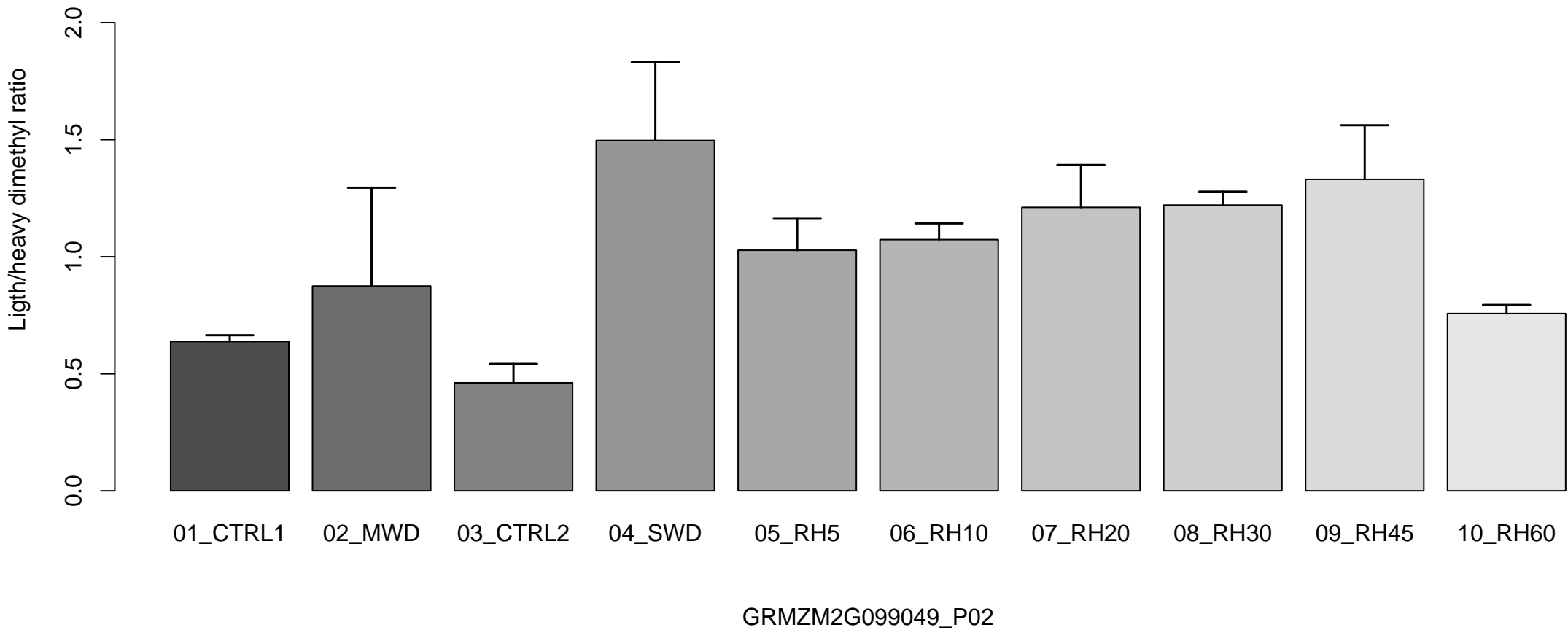




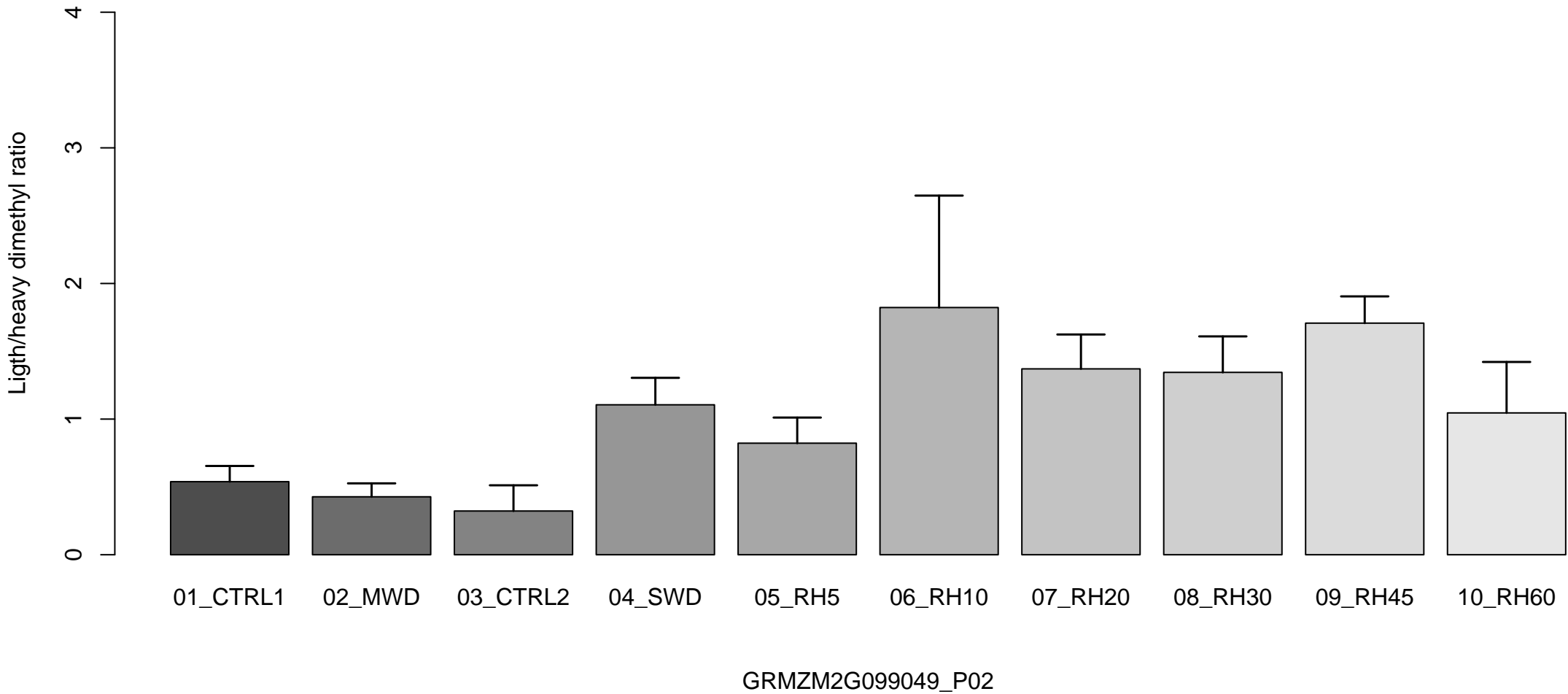
### BZIP transcriptional activator RSG, putative, expressed # S130



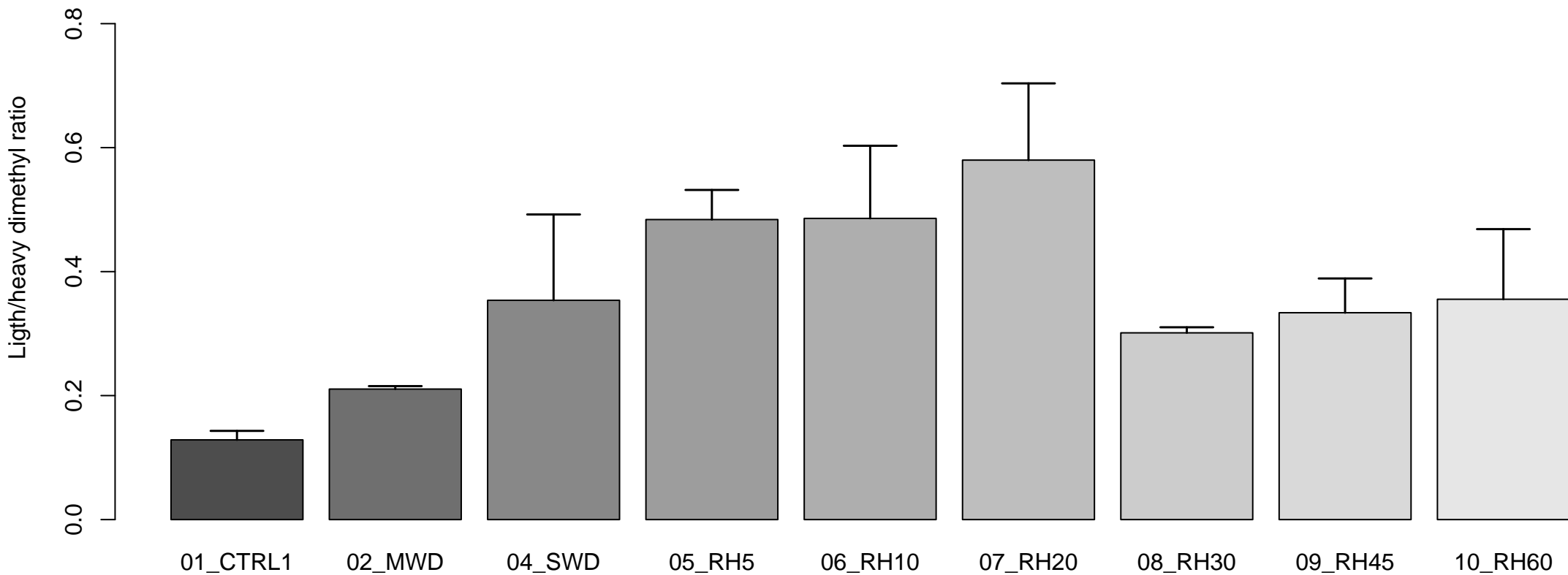
### Auxin-repressed protein # S29/S31



### Auxin-repressed protein # T118

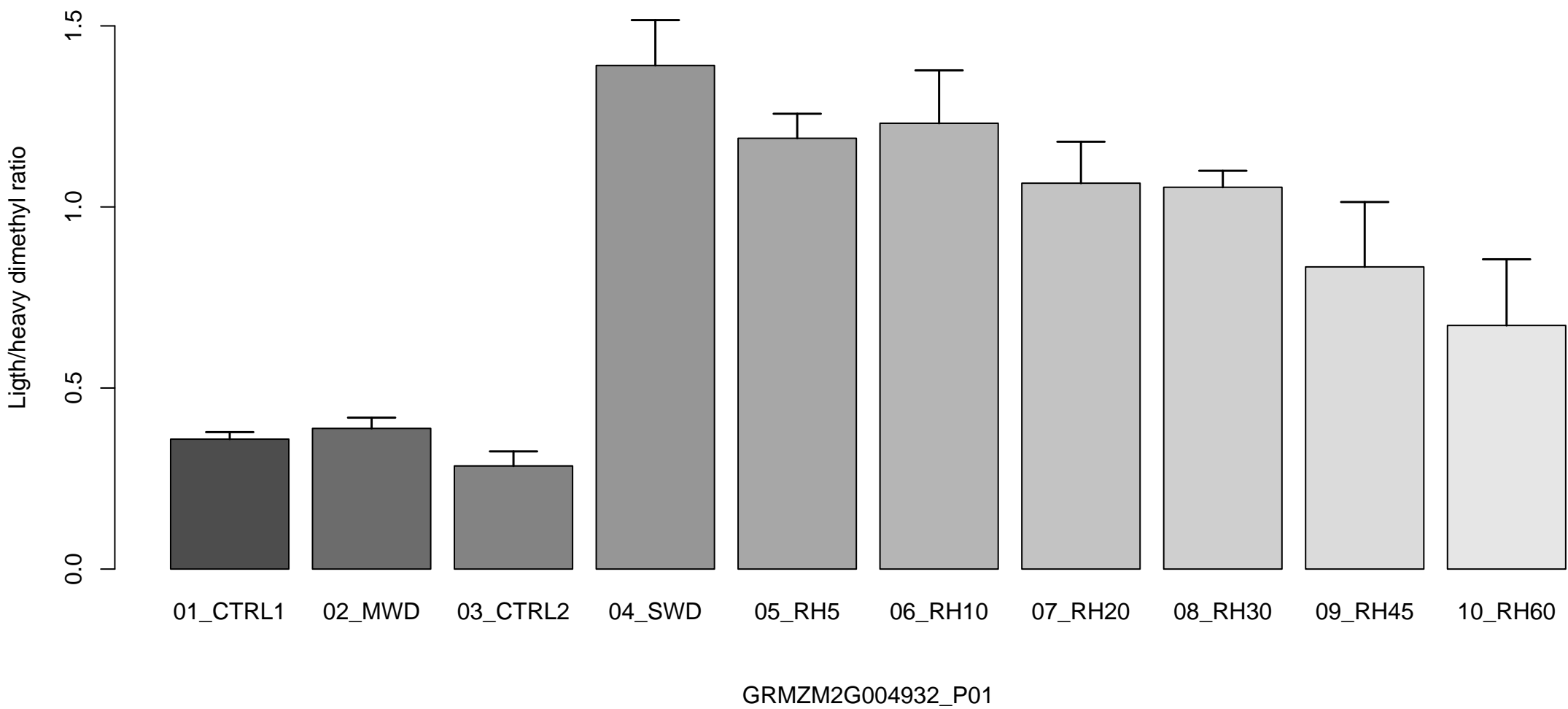


# Peptidylprolyl isomerase, putative, expressed # T320

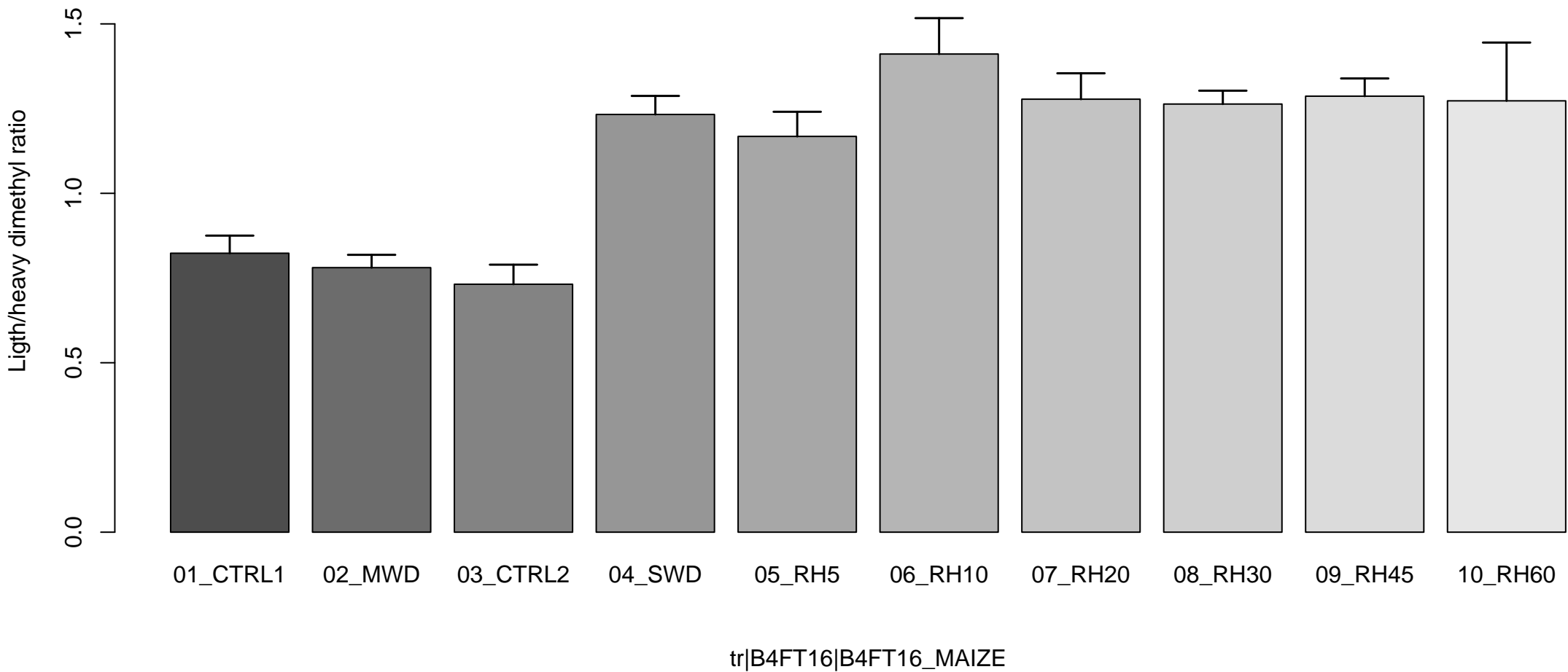


GRMZM2G007486\_P02

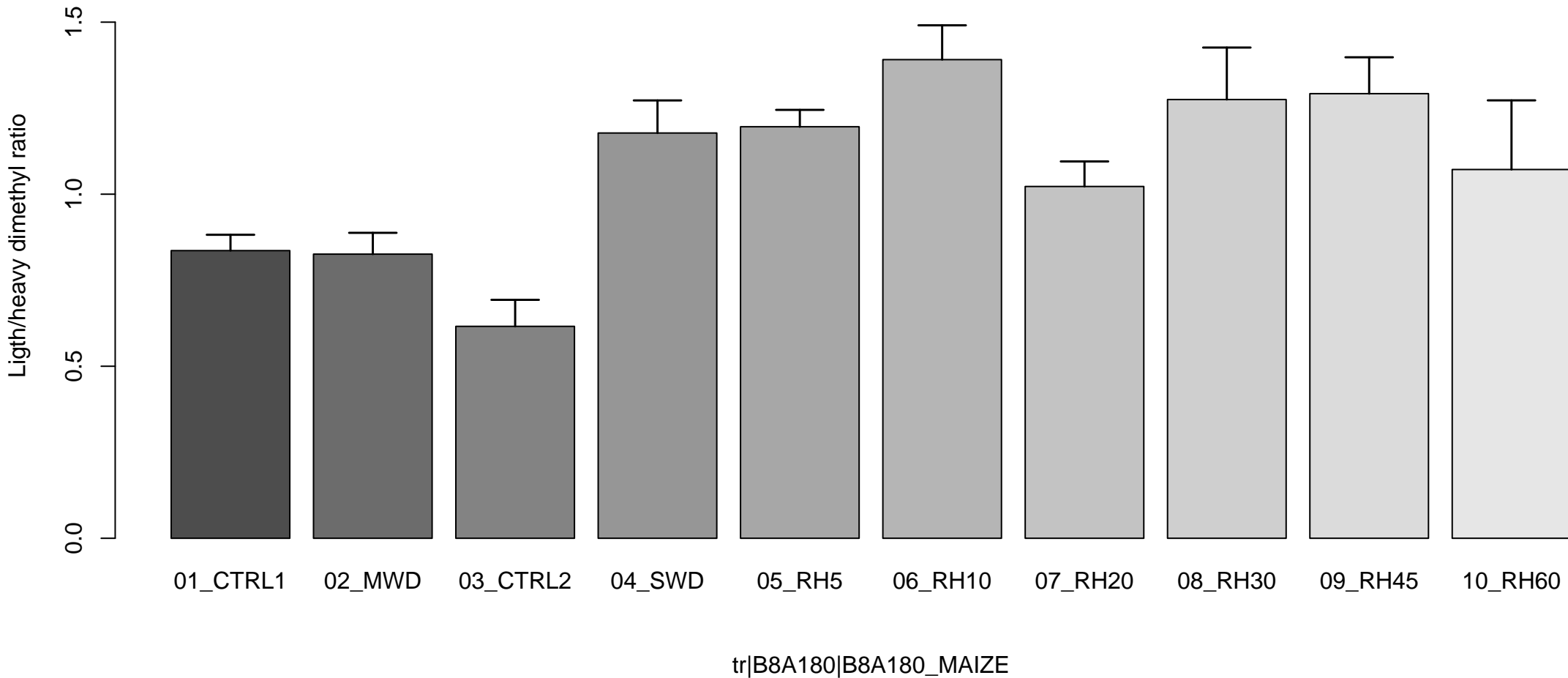
### 6-phosphofructokinase # S79



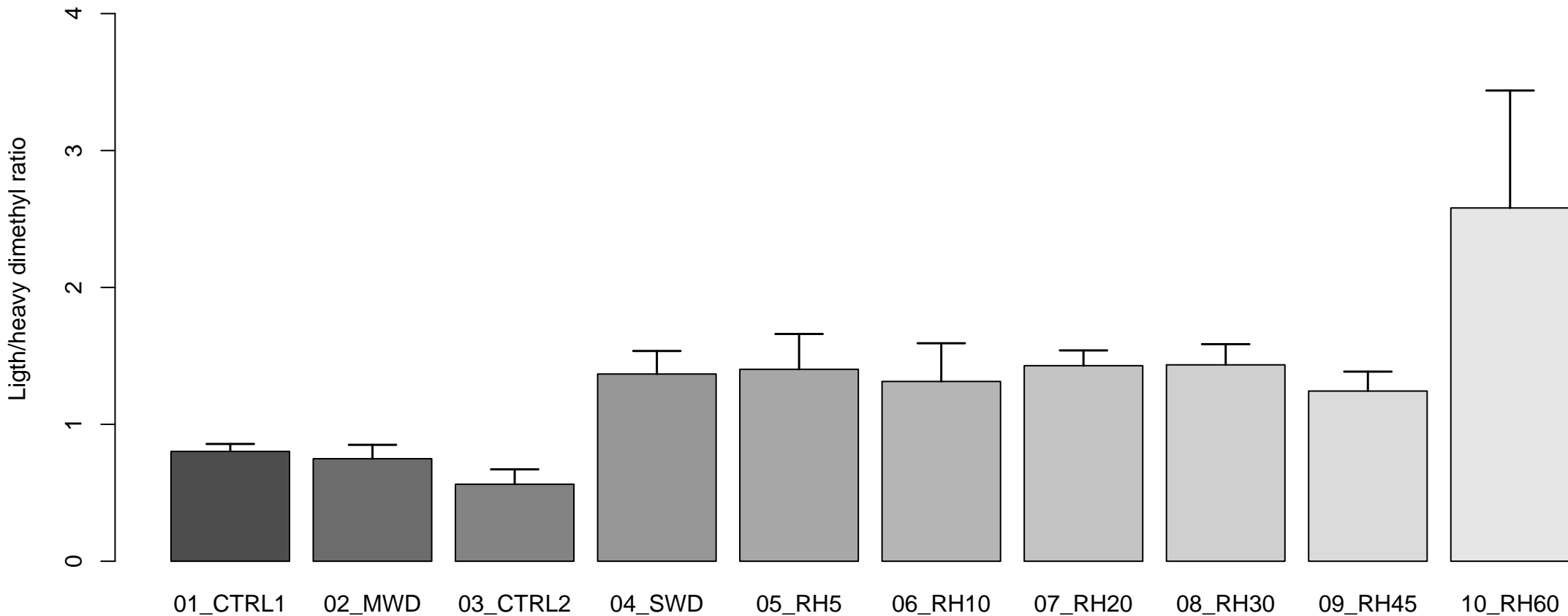
### Vacuolar protein sorting 26 # S221



### GTP-ase activating protein for Arf containing protein # T310/S312



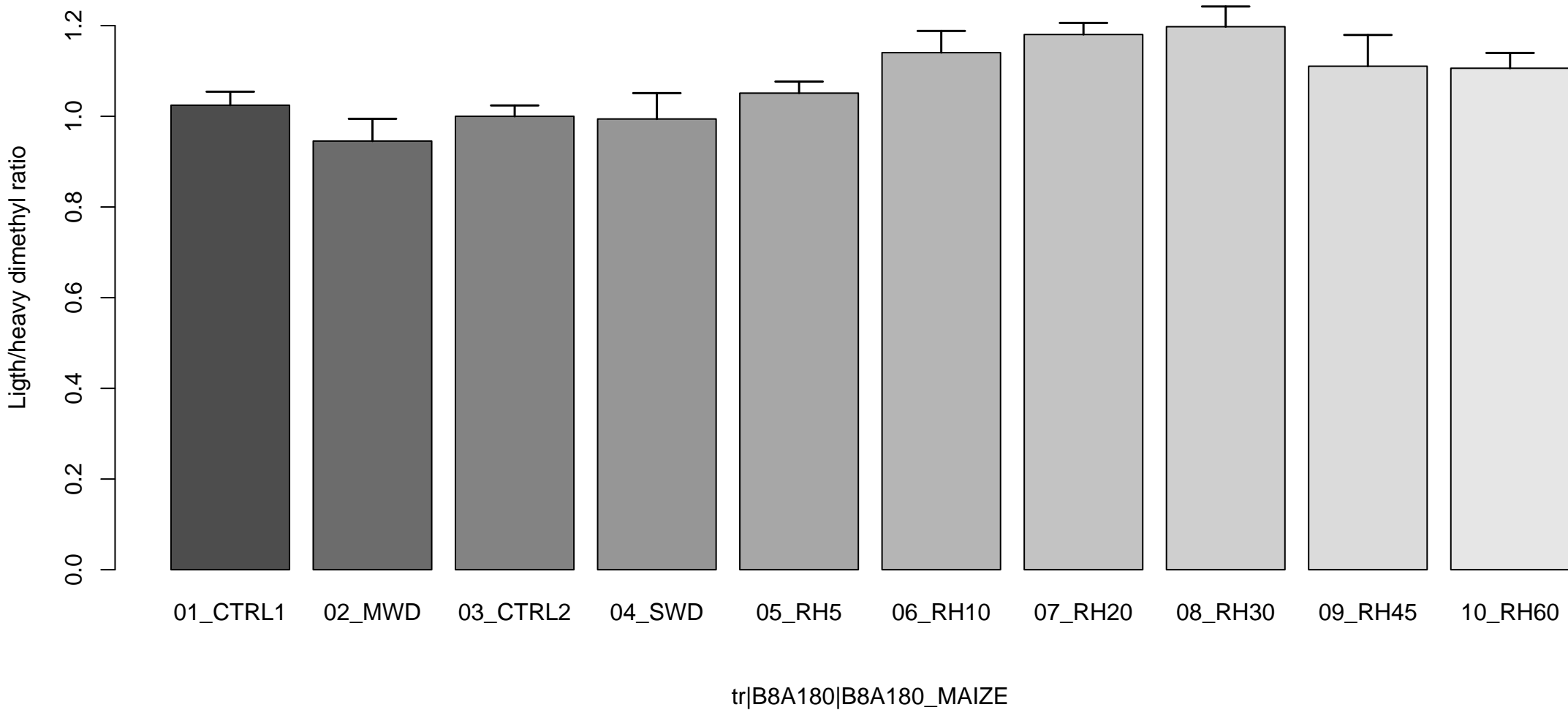
### GTP-ase activating protein for Arf containing protein # S340/S341/S343



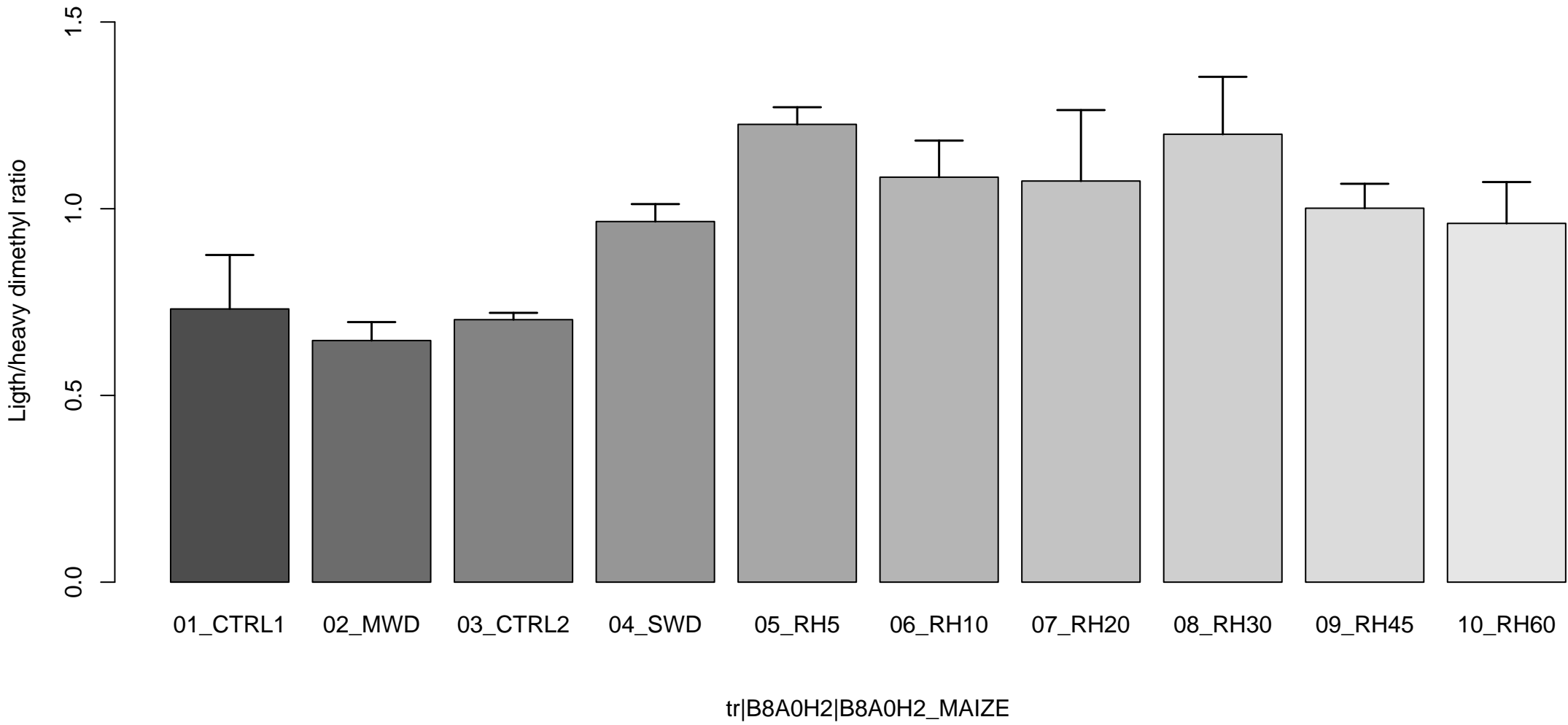
GRMZM2G341732\_P02



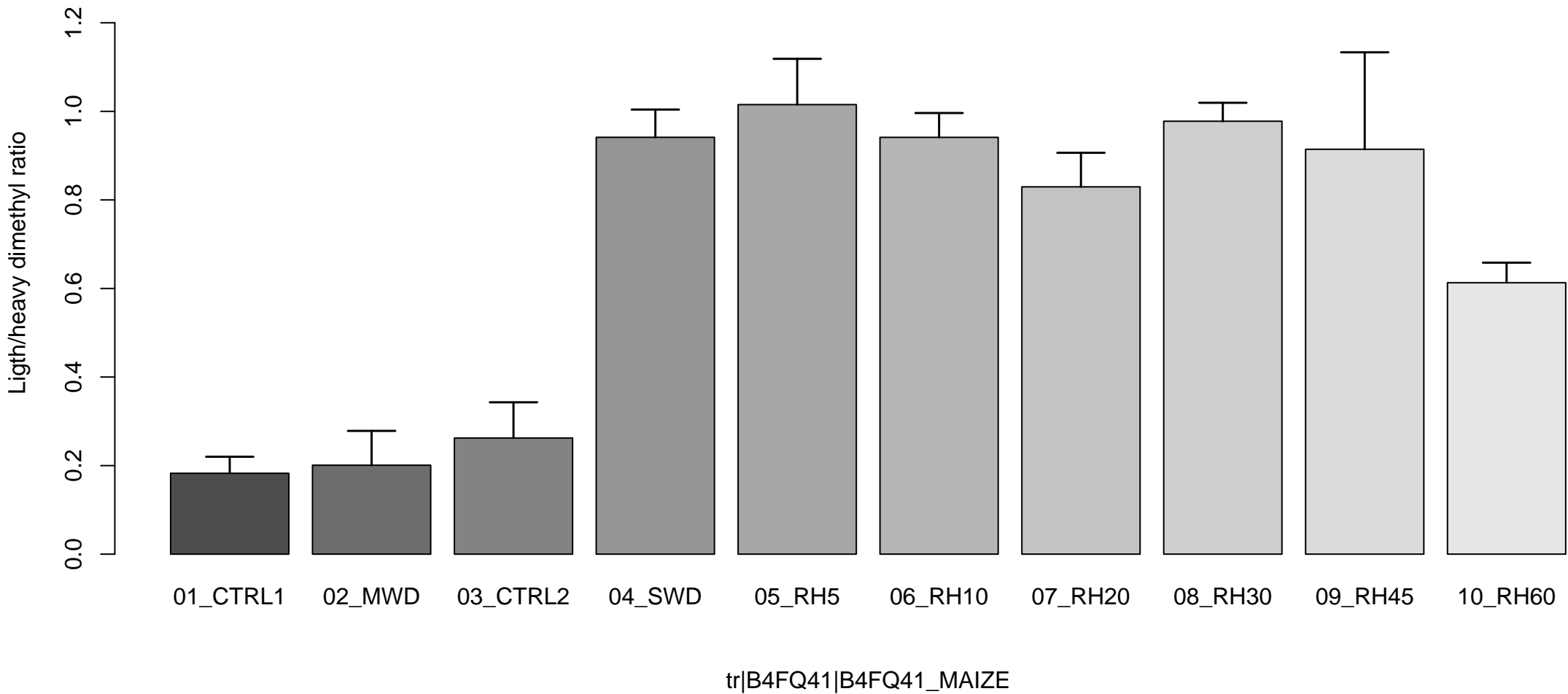
### GTP-ase activating protein for Arf containing protein # S241



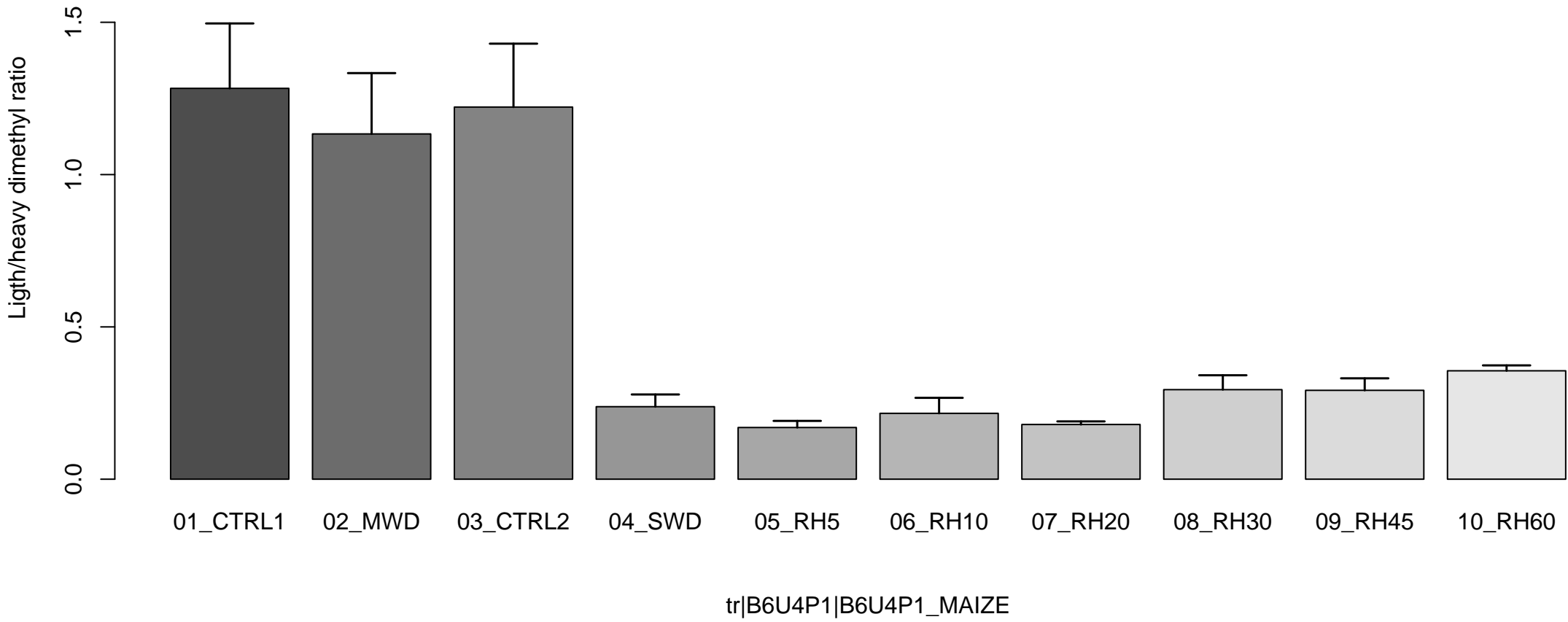
### Putative uncharacterized protein # S127



### Auxin-repressed 12.5 kDa protein # S59/S60/S61/T66



### Putative uncharacterized protein # S34



### Putative uncharacterized protein # S58, S62

Ligth/heavy dimethyl ratio

1.5  
1.0  
0.5  
0.0

01\_CTRL1

02\_MWD

03\_CTRL2

04\_SWD

05\_RH5

06\_RH10

07\_RH20

08\_RH30

09\_RH45

10\_RH60

tr|B6U4P1|B6U4P1\_MAIZE

