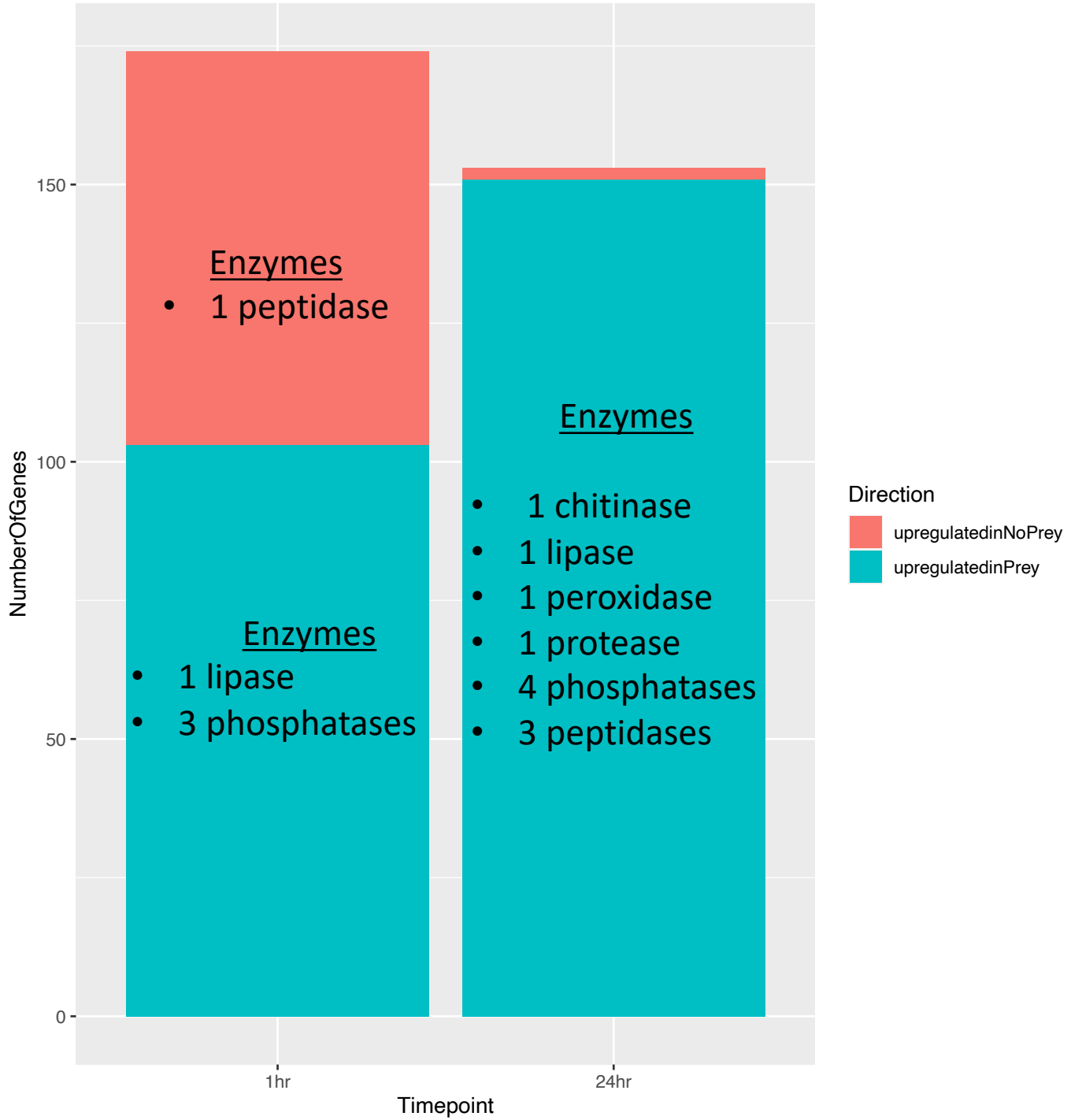
Pairwise DE analysis

1 hr

174 DEGs
71 upregulated in no prey
103 upregulated in prey

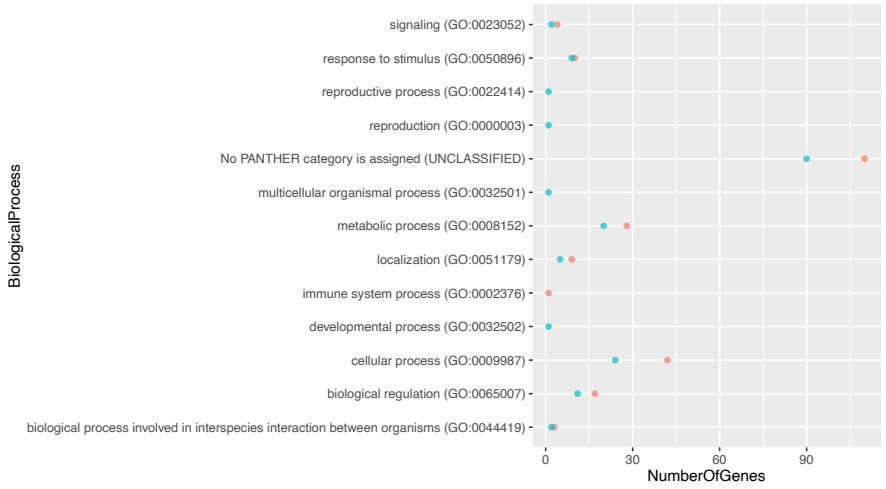
24 hr

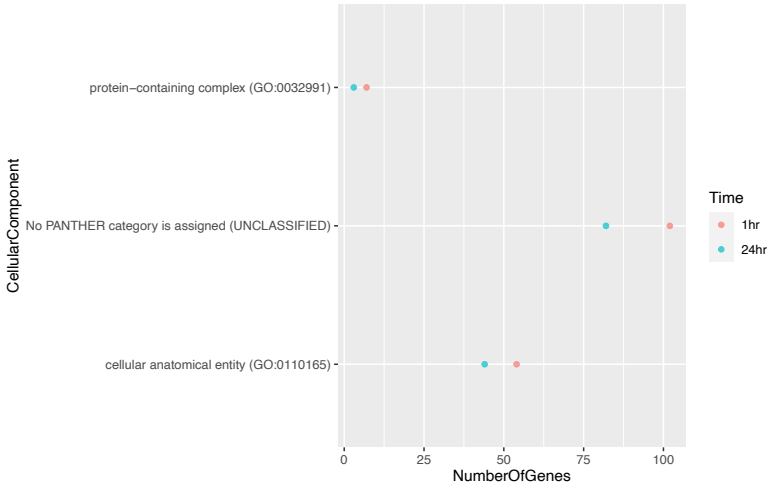
151 DEGs
2 upregulated in no prey
149 upregulated in prey



DEG GO Term Classification

GO Term Classifications Comparison





Only in 1 hr DEG's

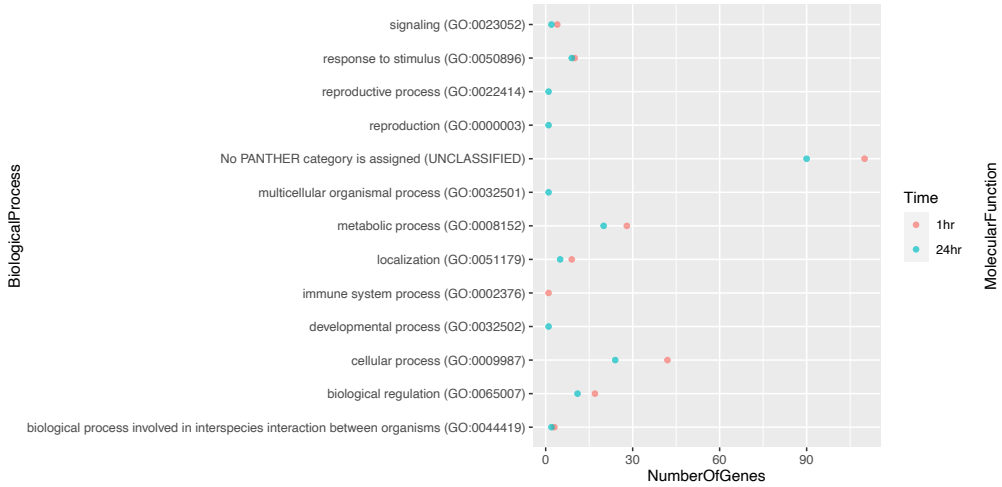
Biological Process

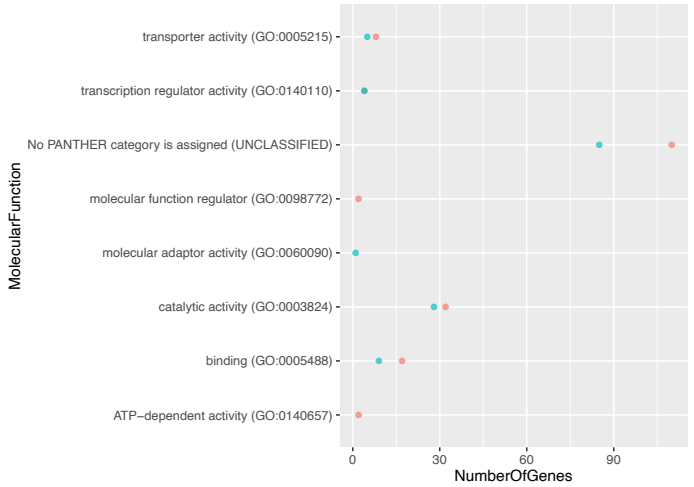
- Immune system process

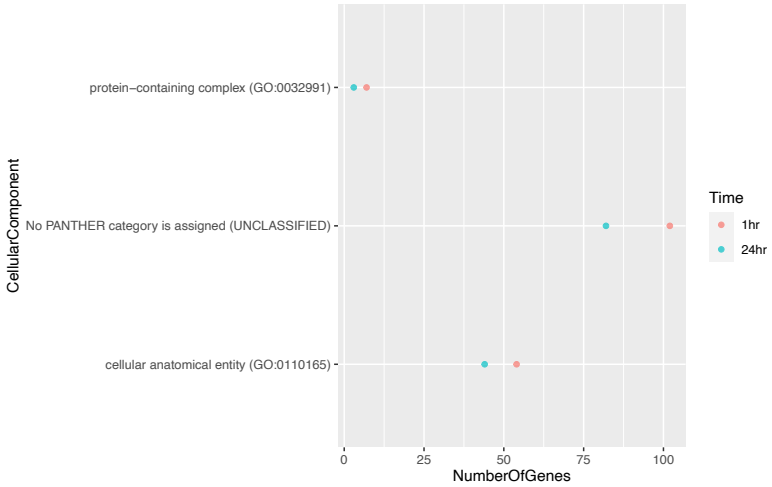
Molecular Function

- Molecular Function Regulator
- ATP-dependent Activity

GO Term Classifications Comparison







Only in 24 hr DEG's

Biological Process

- Reproductive Process
- Reproduction
- Multicellular Organismal
- Developmental Process

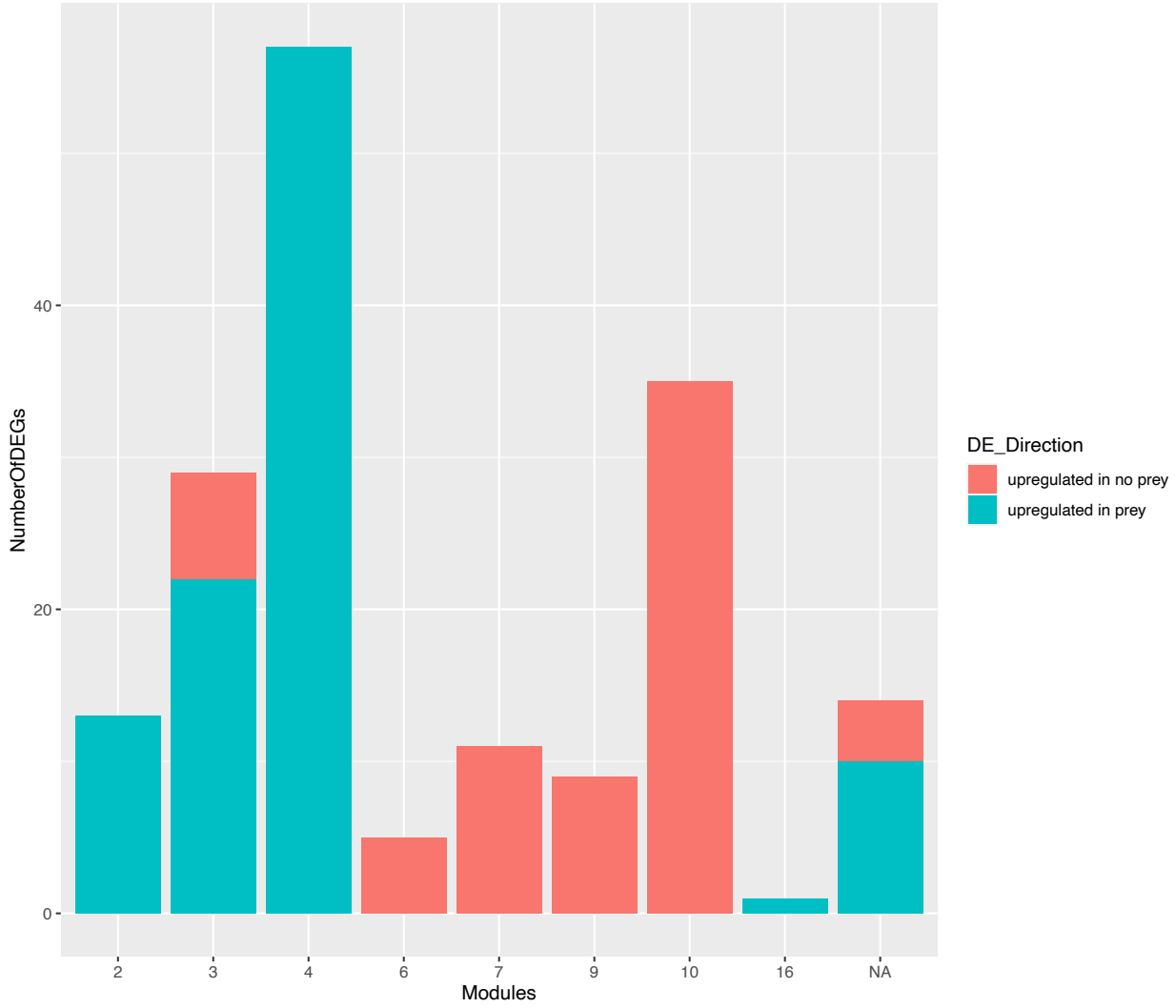
Molecular Function

- Transcription regulator activity
- Molecular adaptor activity

DEG Network Module Correspondence

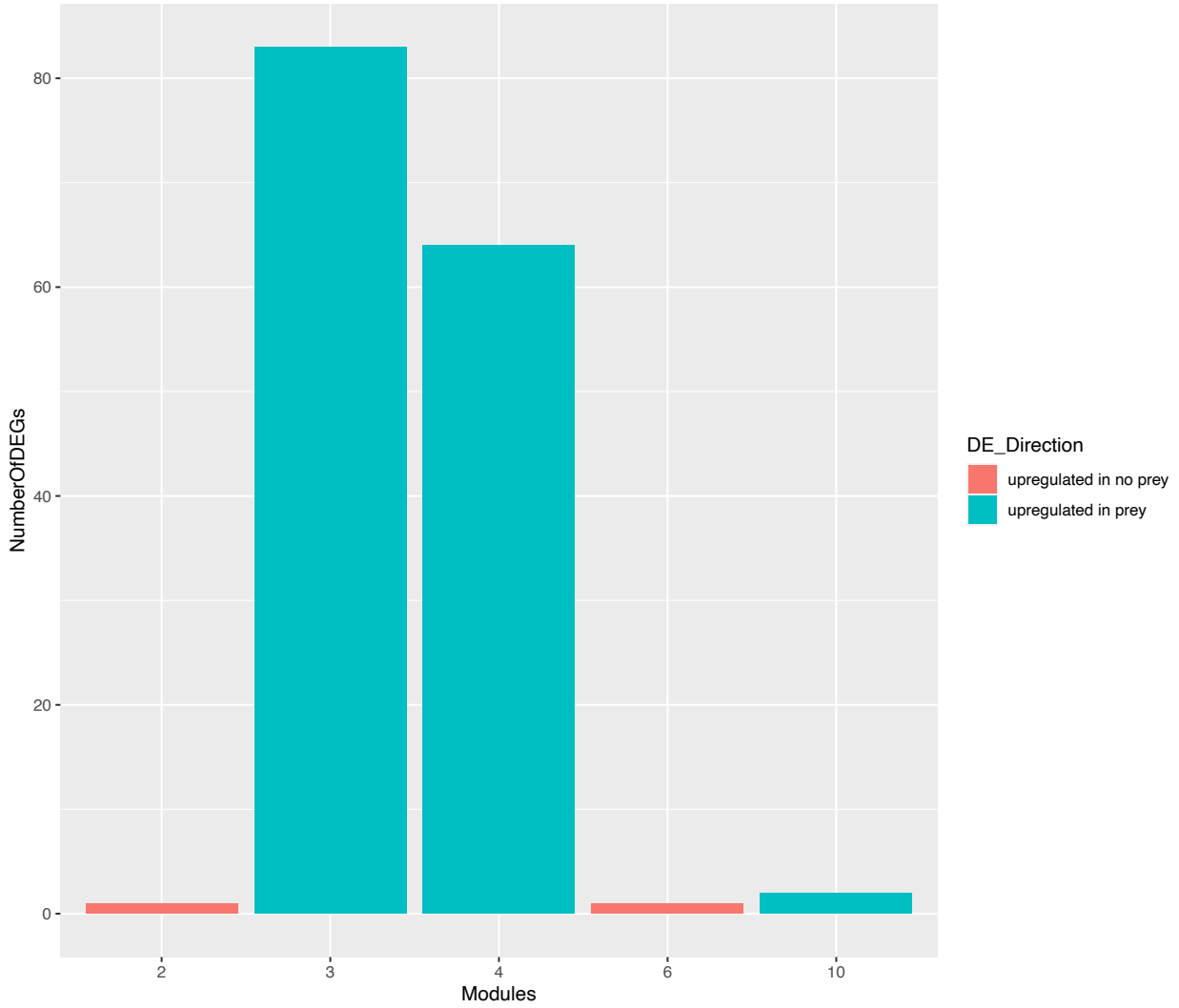
Prey Vs. No Prey 1 hr time point

174 DEGs



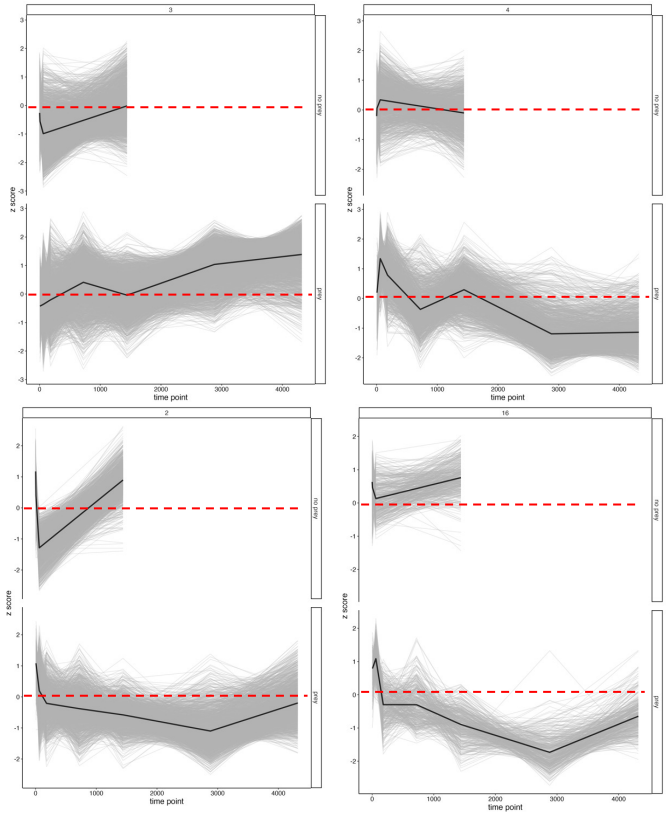
Prey Vs. No Prey 24 hr time point

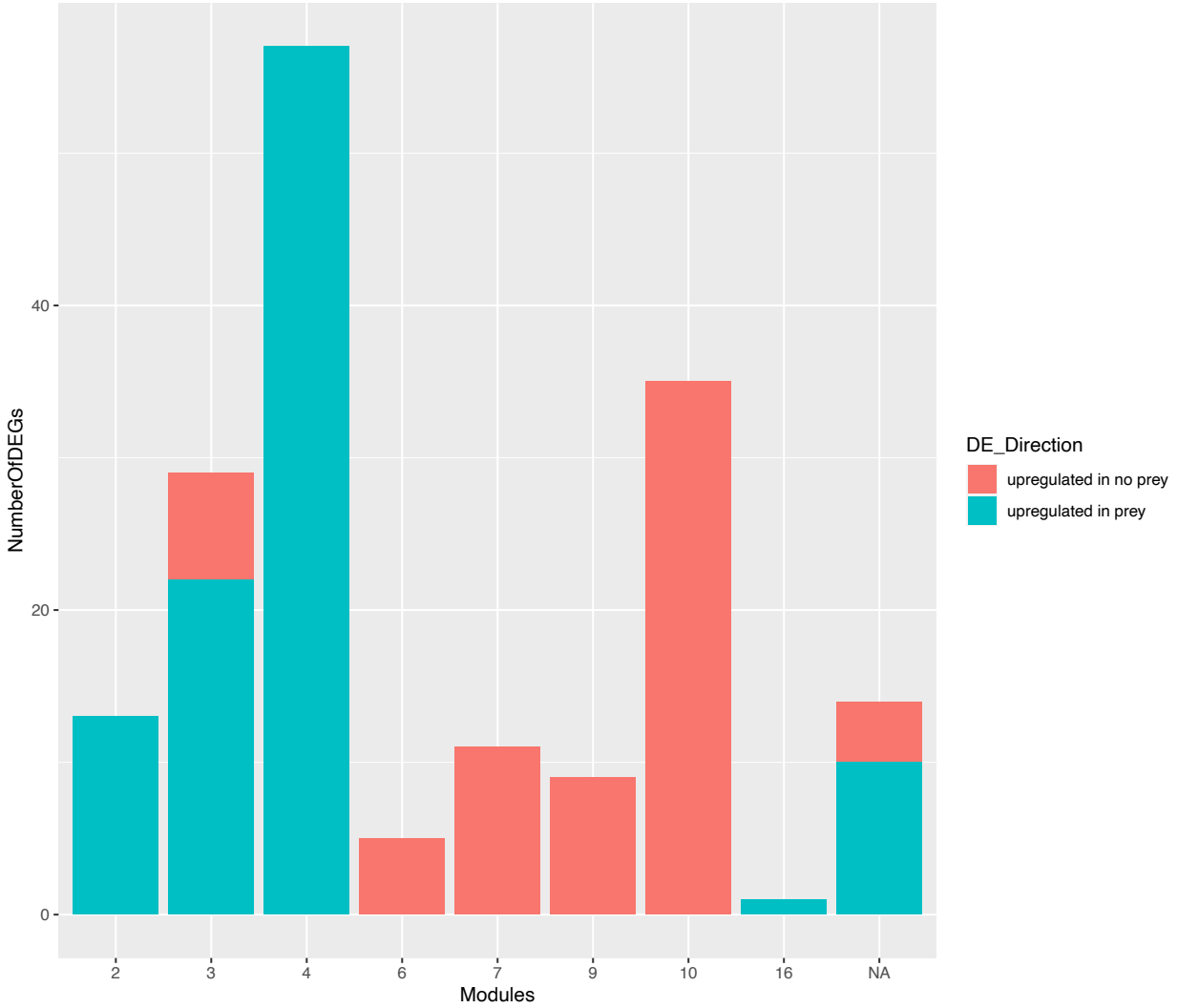
151 DEGs



Prey Vs. No Prey 1 hr time point

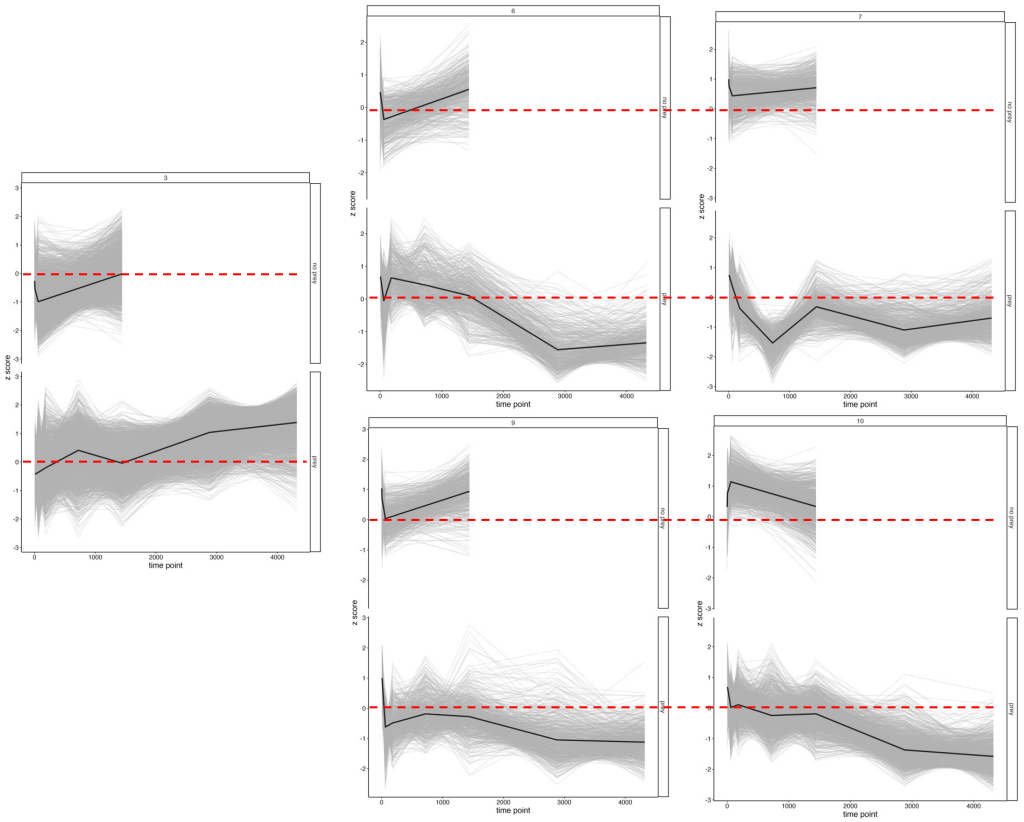
103 upregulated in prey
module 2,**3**,4,16

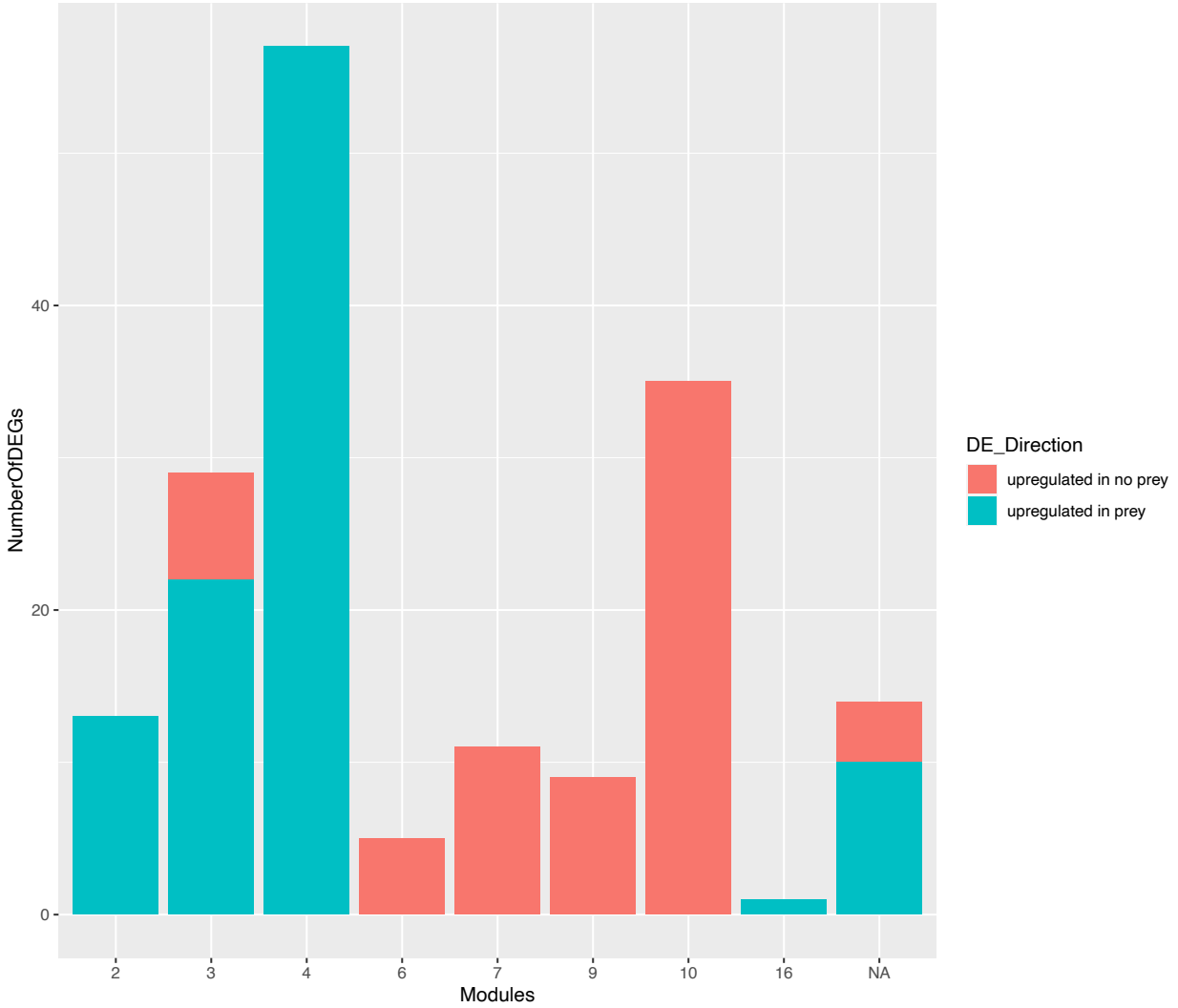




Prey Vs. No Prey 1 hr time point

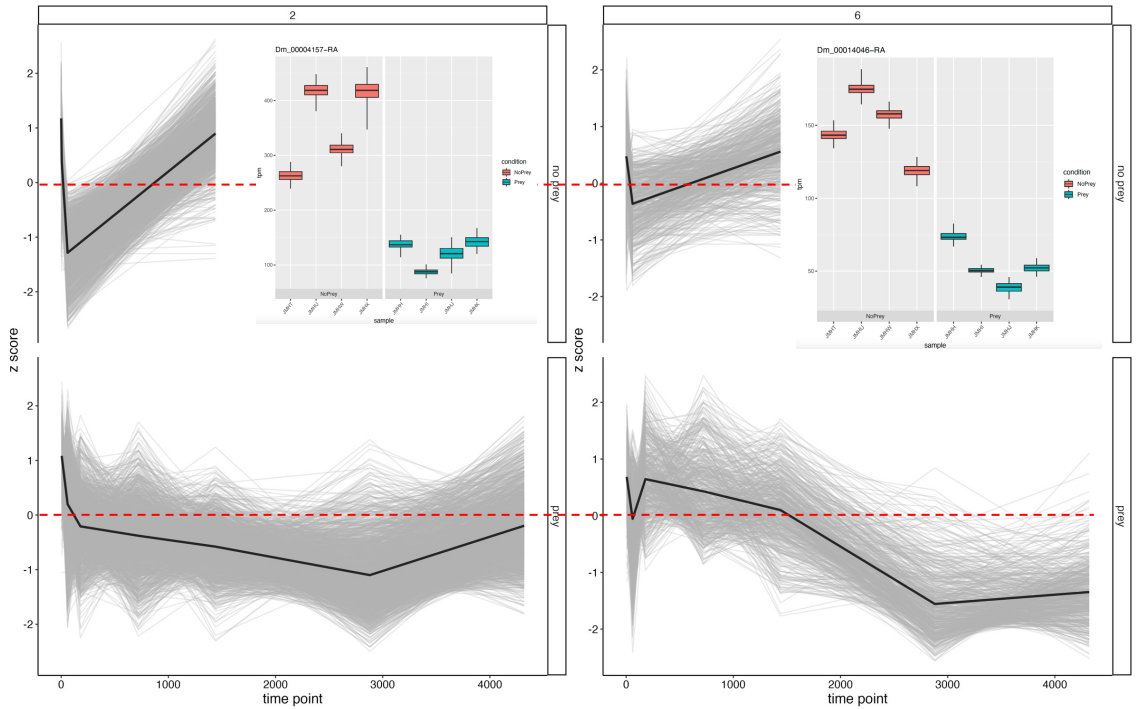
71 upregulated in no prey –
module 3,6,7,9,10

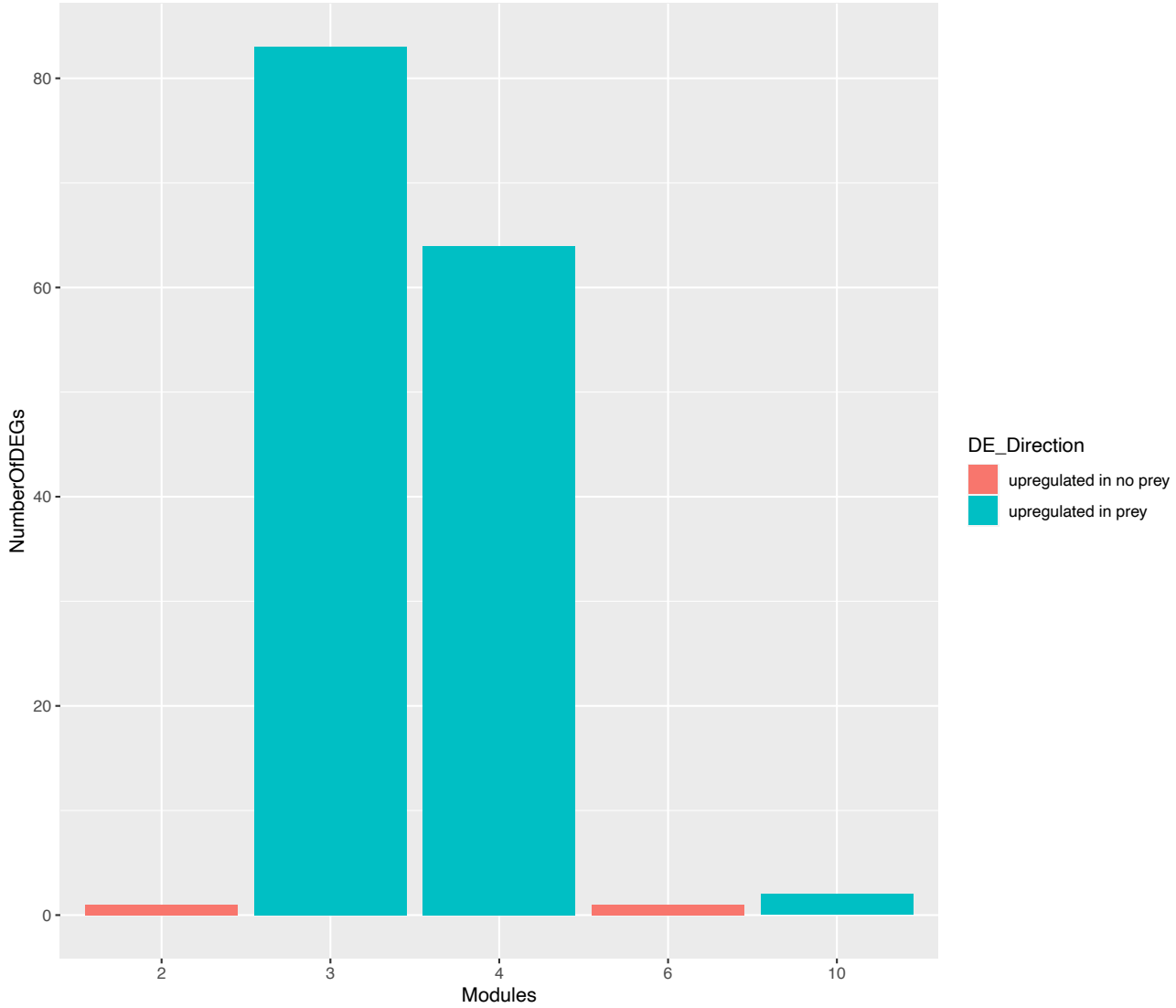




Prey Vs. No Prey 24 hr time point

2 genes with higher expression in Mechanical Trigger – module 2 and 6





Prey Vs. No Prey 24 hr time point

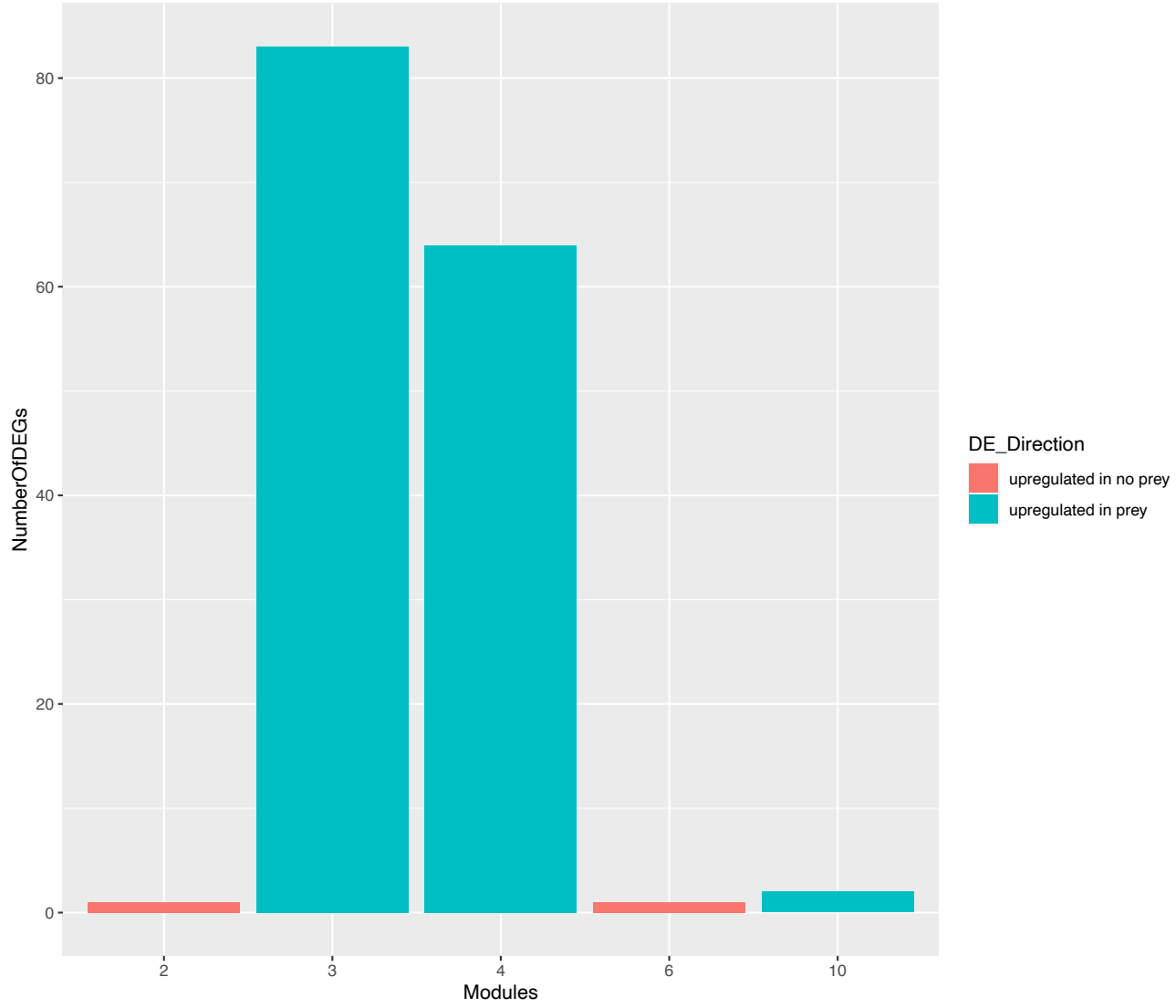
2 genes with higher expression in Mechanical Trigger – module 2 and 6

Locus: AT5G11260 What's new on this page Add a Comment

Representative Gene Model	AT5G11260.2
Gene Model Type	protein_coding
Other names:	ELONGATED HYPOCOTYL 5, HY5, REVERSAL OF THE DET PHENOTYPE 5, TED 5
Description	Basic leucine zipper (bZIP) transcription factor. Nuclear localization. Involved in light-regulated transcriptional activation of G-box-containing promoters. Negatively regulated by Cop1. Although cytokinins do not appear to affect the gene Primes promoter activity, they appear to stabilize the protein. HY5 plays a role in anthocyanin accumulation in far-red light and blue light, but not in red light or in the dark. Mutant studies showed that the gene product is involved in the positive regulation of the PHYA-mediated inhibition of hypocotyl elongation. Binds to G- and Z-boxes, and other ACEs, but not to E-box. Loss of function mutation shows ABA resistant seedling phenotypes suggesting involvement for HY5 in mediating ABA responses. Binds to the promoter of ABI5 and regulates its expression.

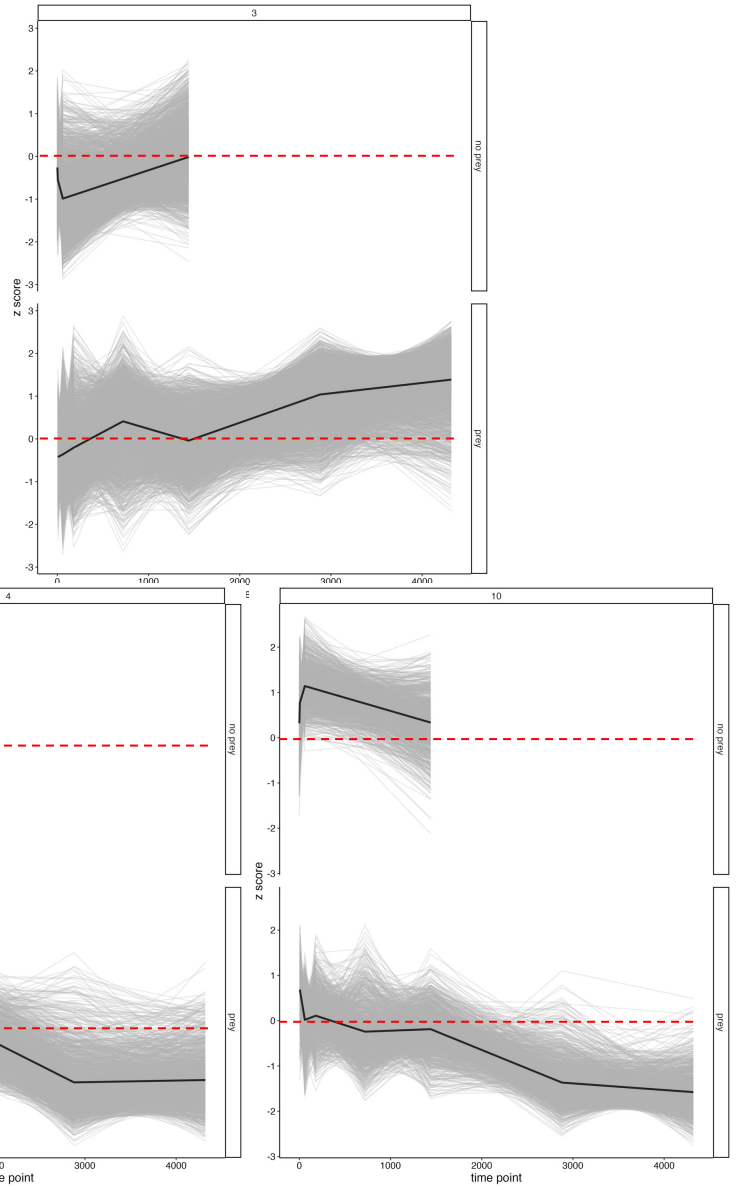
Gene Model: AT3G02380.1 [Help]

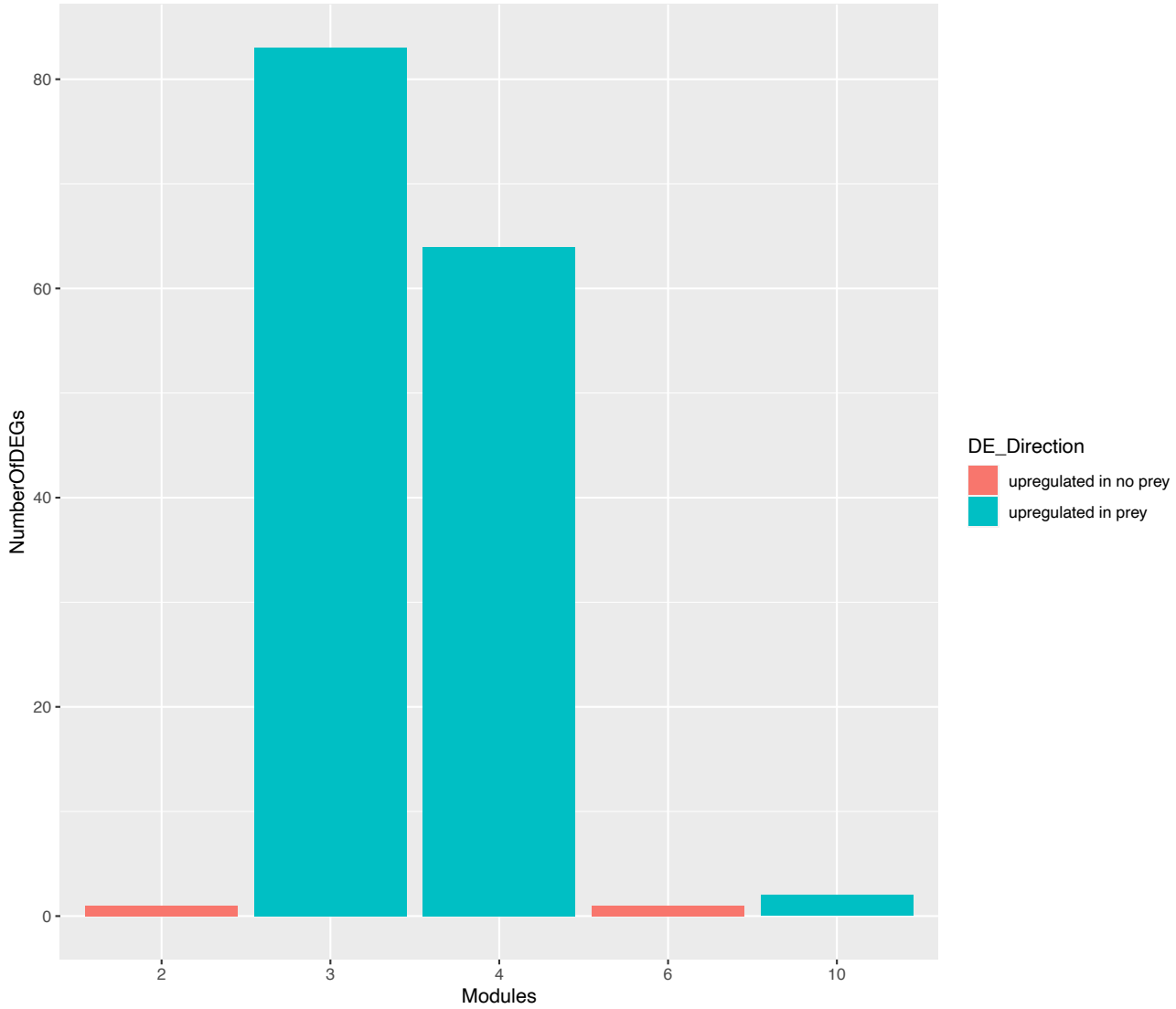
Name	AT3G02380.1
Name Type	orf
Gene Model Type	protein_coding
Description	homologous to the flowering-time gene CONSTANS (CO) encoding zinc-finger proteins



Prey Vs. No Prey 24 hr time point

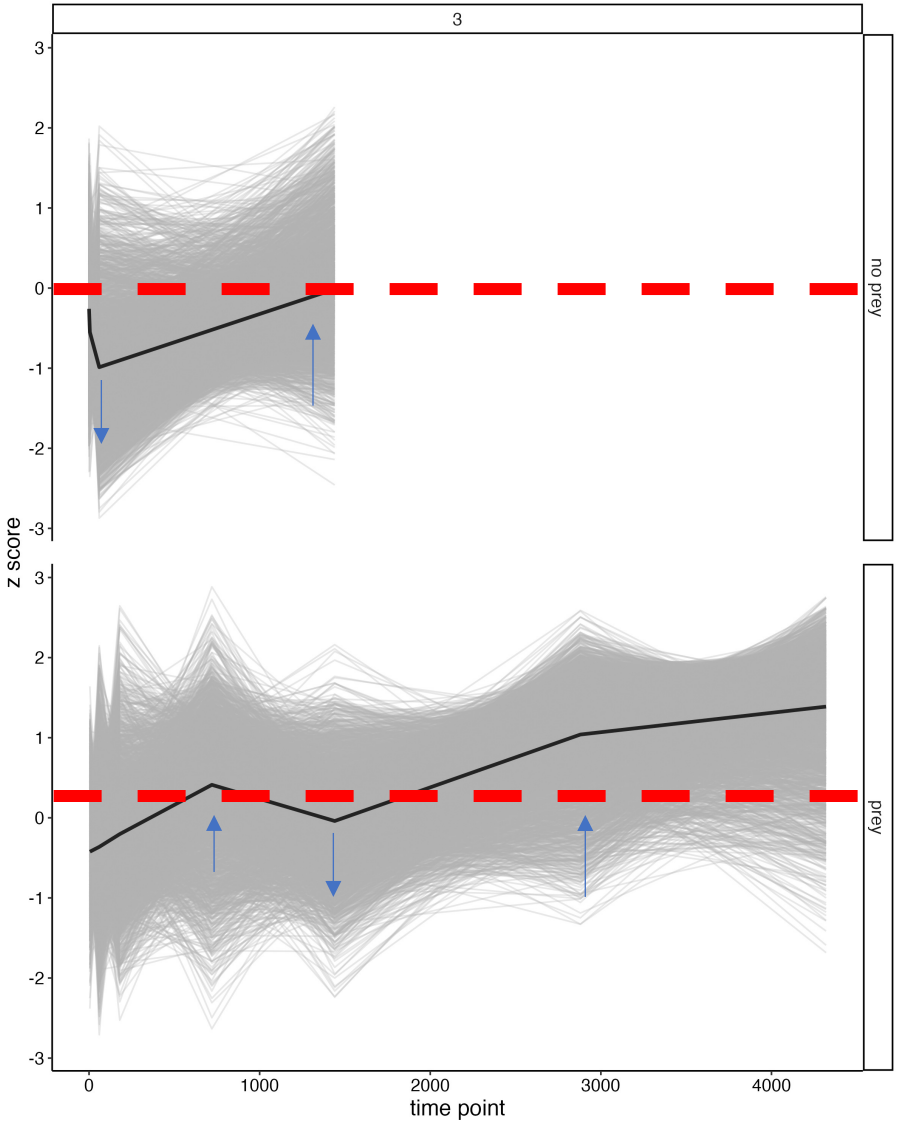
149 genes with higher expression in Prey Trigger – Modules 3, 4, 6



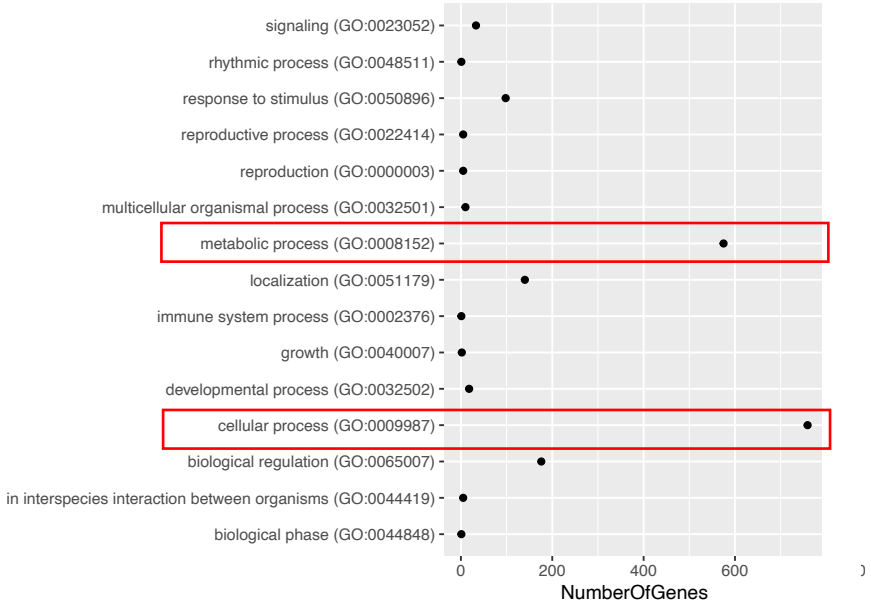


Network Module GO Classification

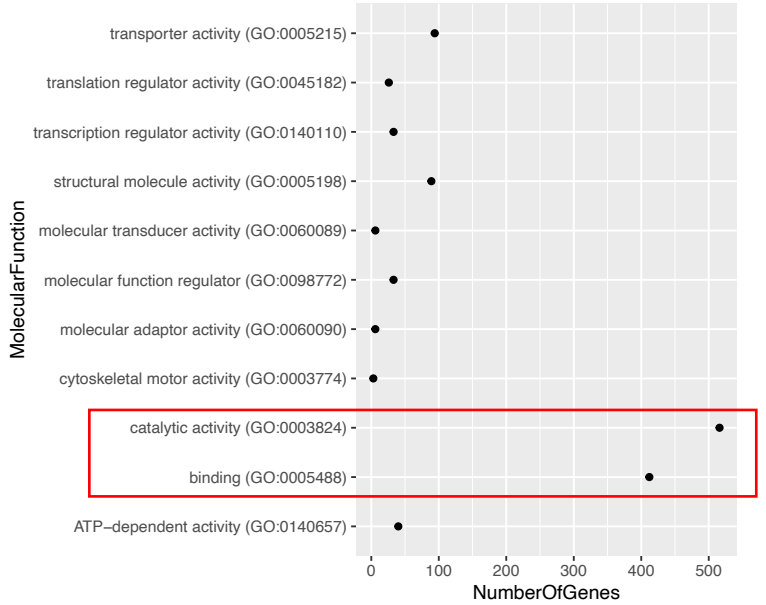
Module 3 GO Term Classification



3009 genes in module

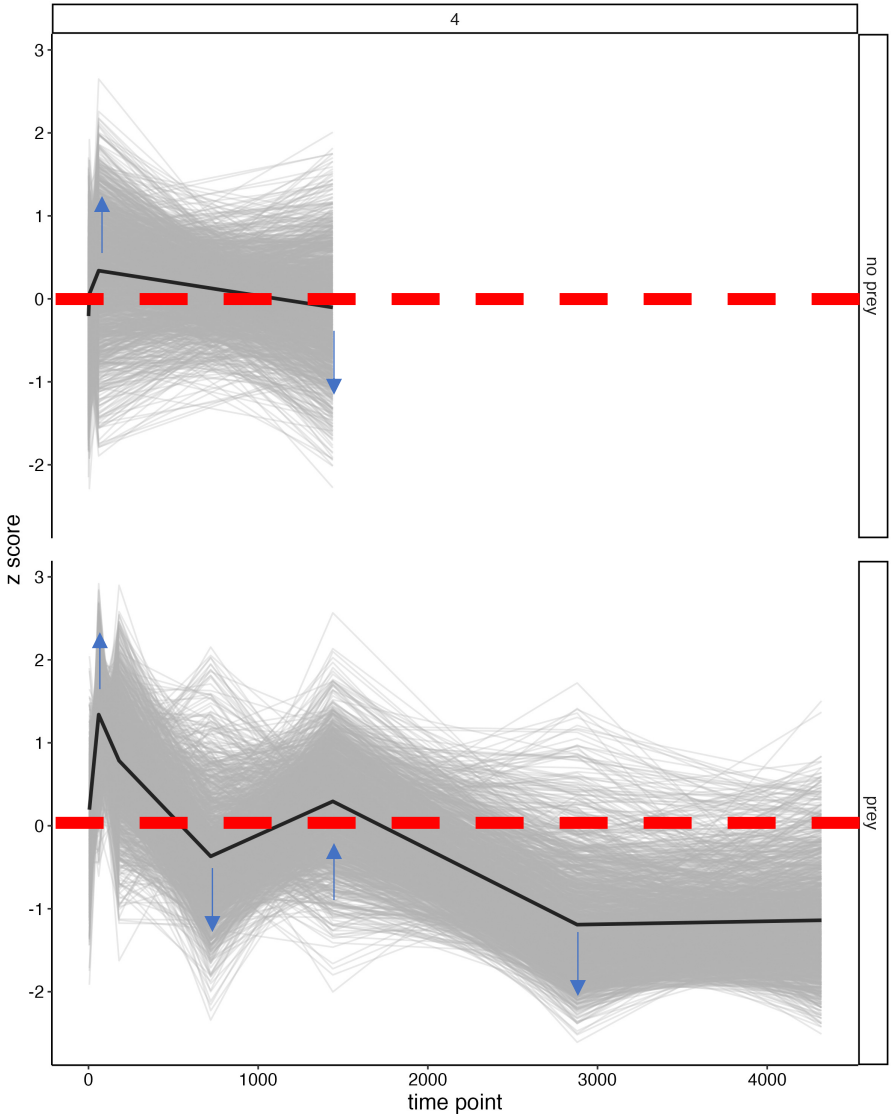


~600 genes associated with metabolic process
~700 genes associated with cellular process

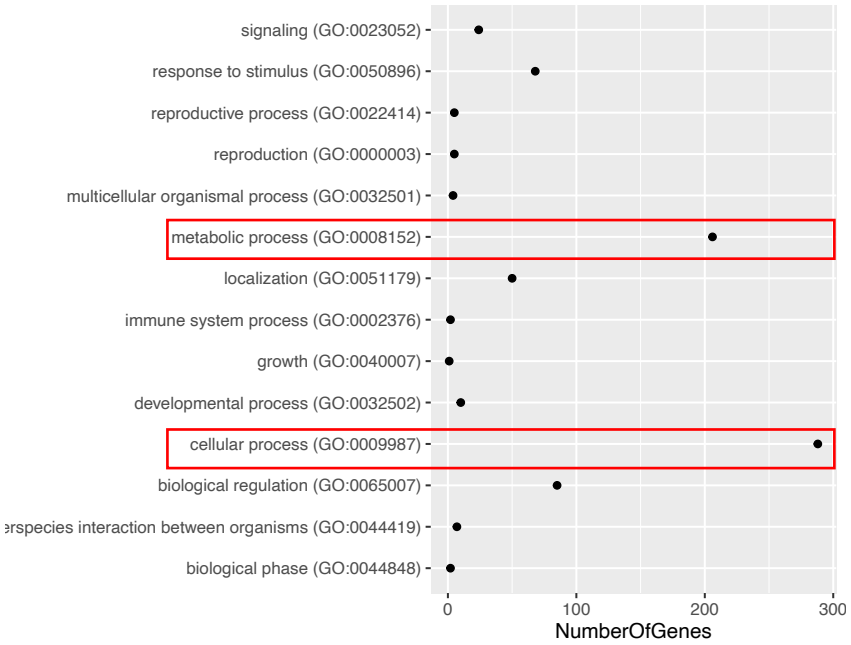


~500 genes associated with catalytic activity
~400 genes associated with binding

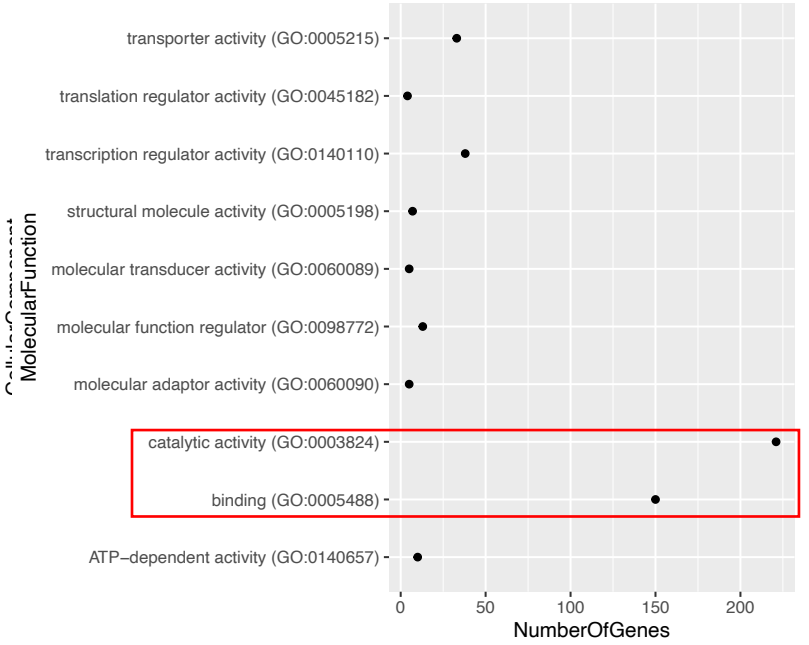
Module 4 GO Term Classification



1455 genes in module

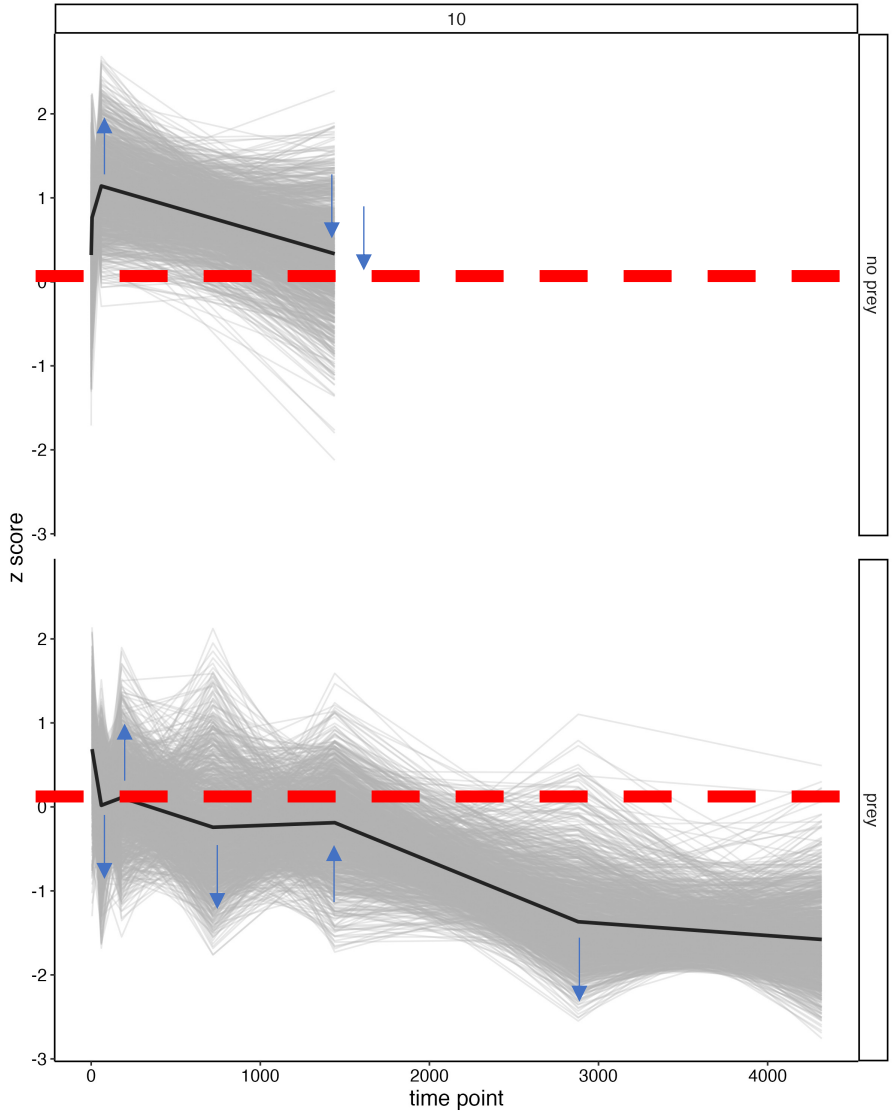


~200 genes associated with metabolic process
~300 genes associated with cellular process

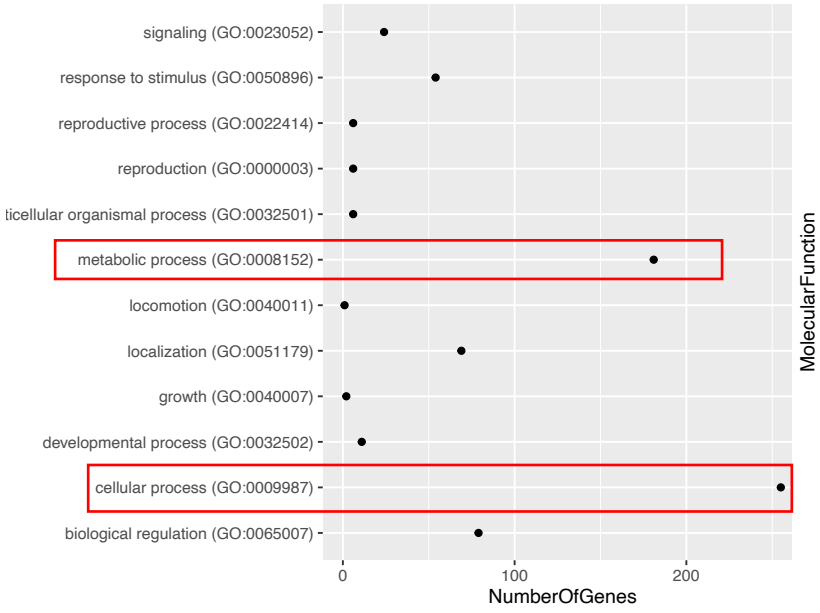


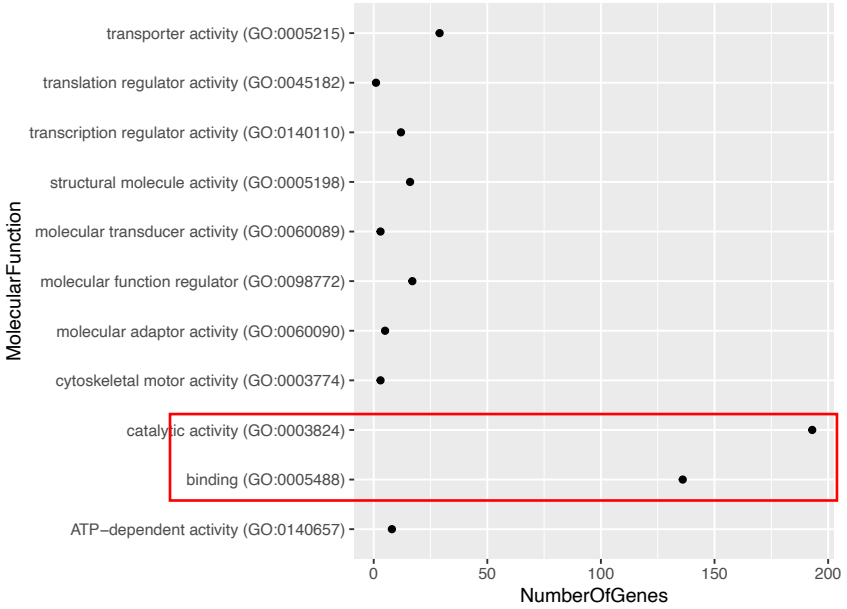
~200 genes associated with catalytic activity
~150 genes associated with binding

Module 10 GO Term Classification



1239 genes in module





~200 genes associated with metabolic process
~250 genes associated with cellular process

~200 genes associated with catalytic activity
~150 genes associated with binding