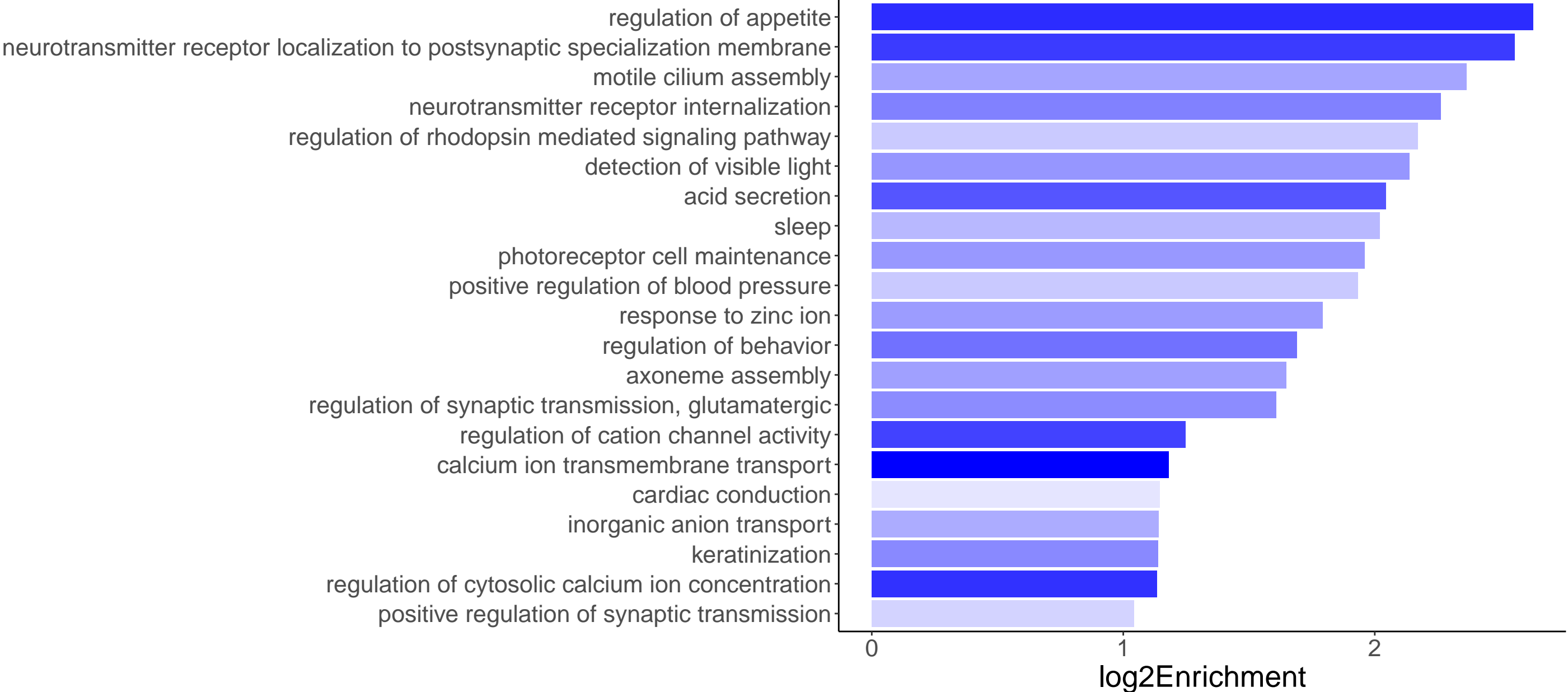
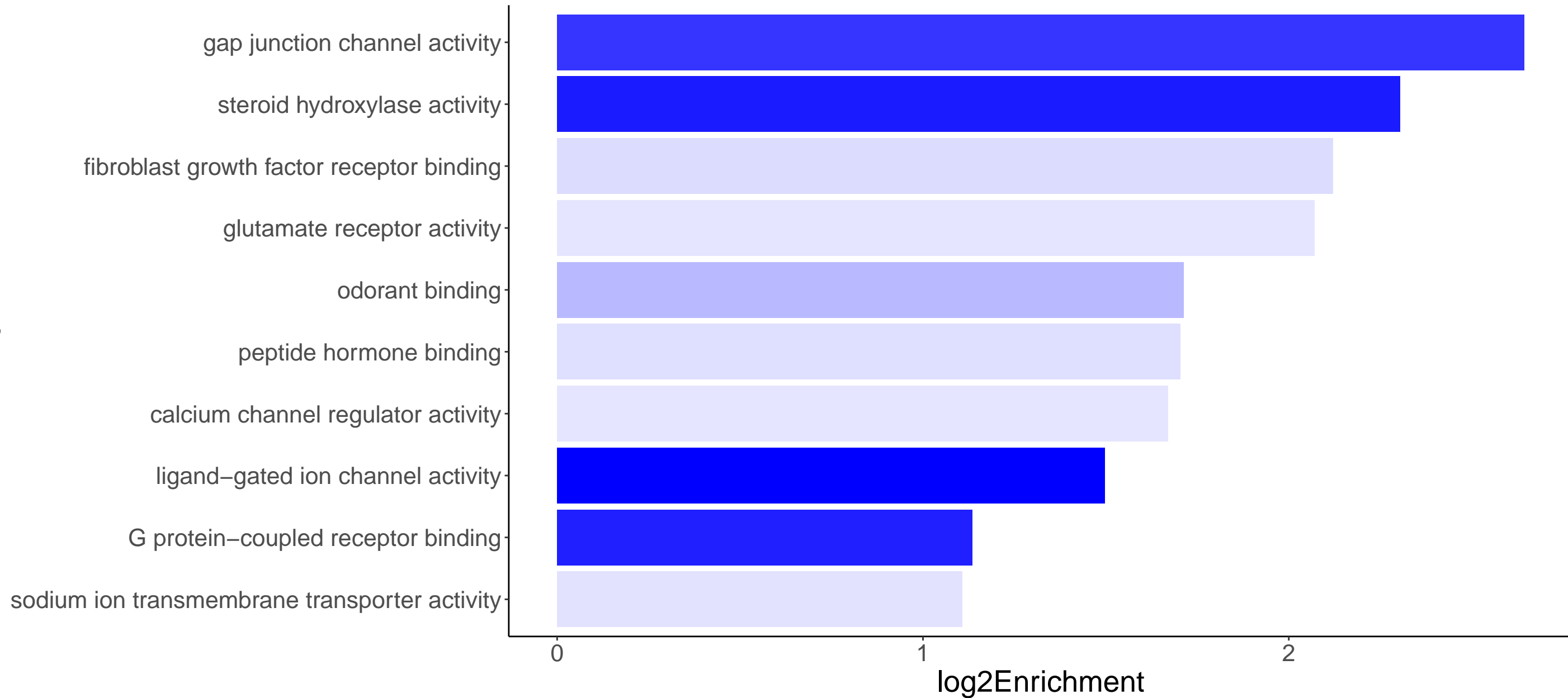


# Original module 5 BP enrichment

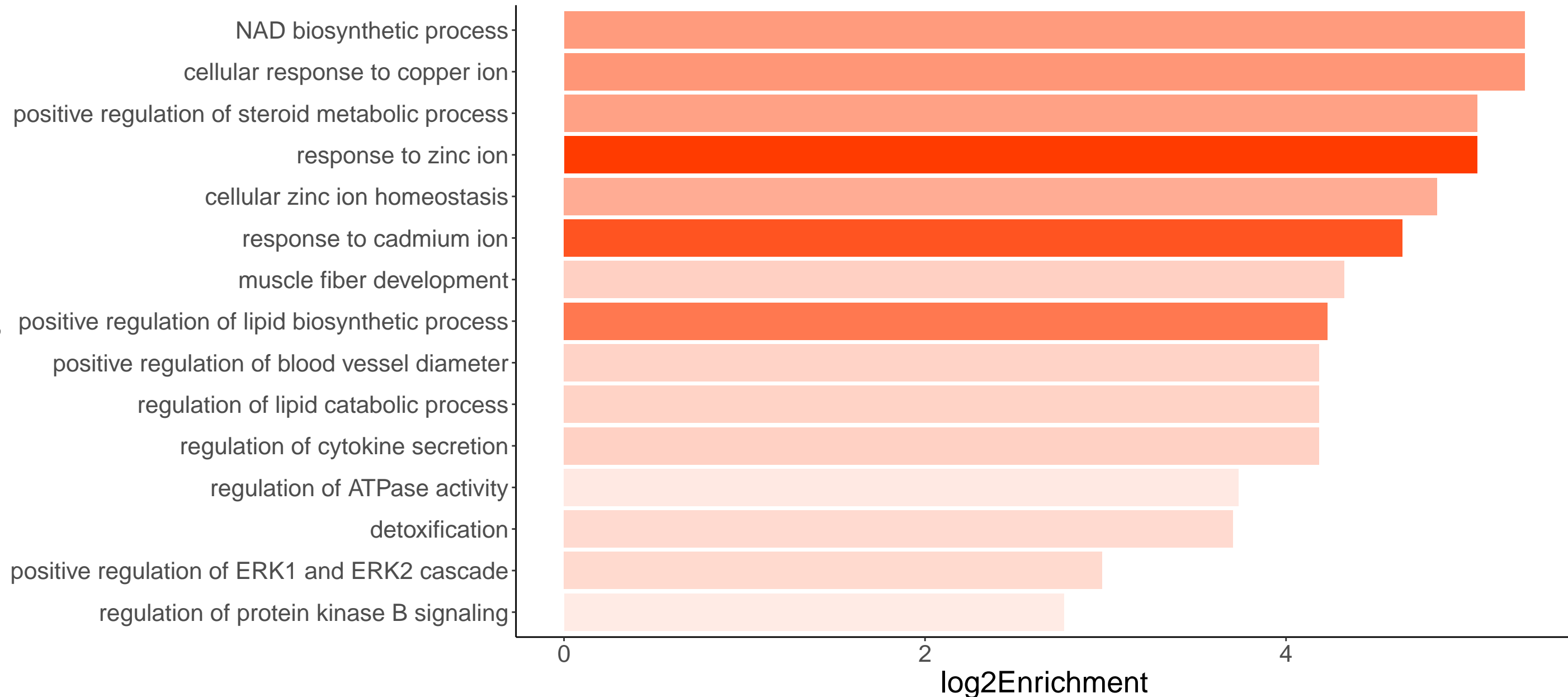


# Original module 5 MF enrichment



## Re-clustered module 5.1 BP enrichment

Term



# Re-clustered module 5.1 MF enrichment

Term

calmodulin binding

0

1

2

3

log2Enrichment



# Re-clustered module 5.10 BP enrichment

Term neuromuscular synaptic transmission

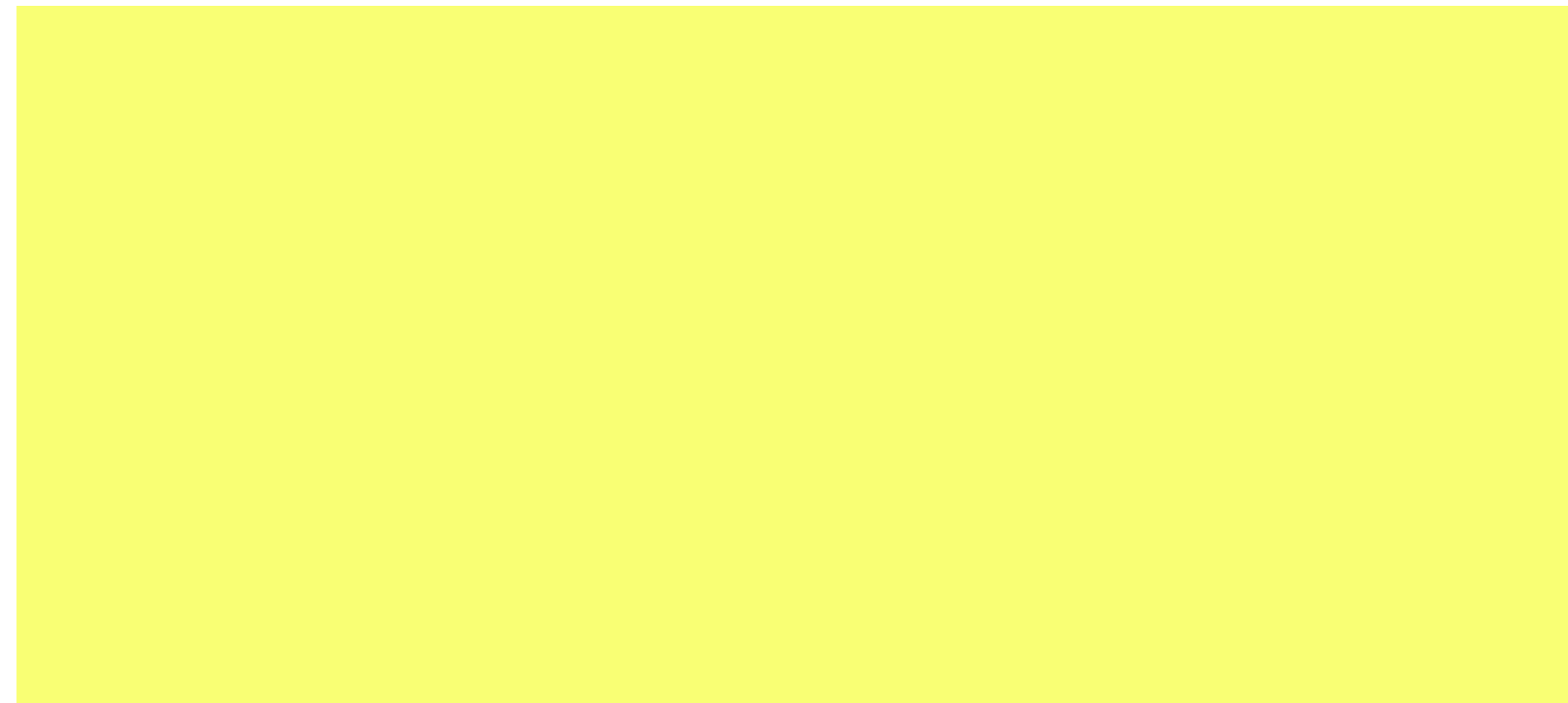
0

2

4

6

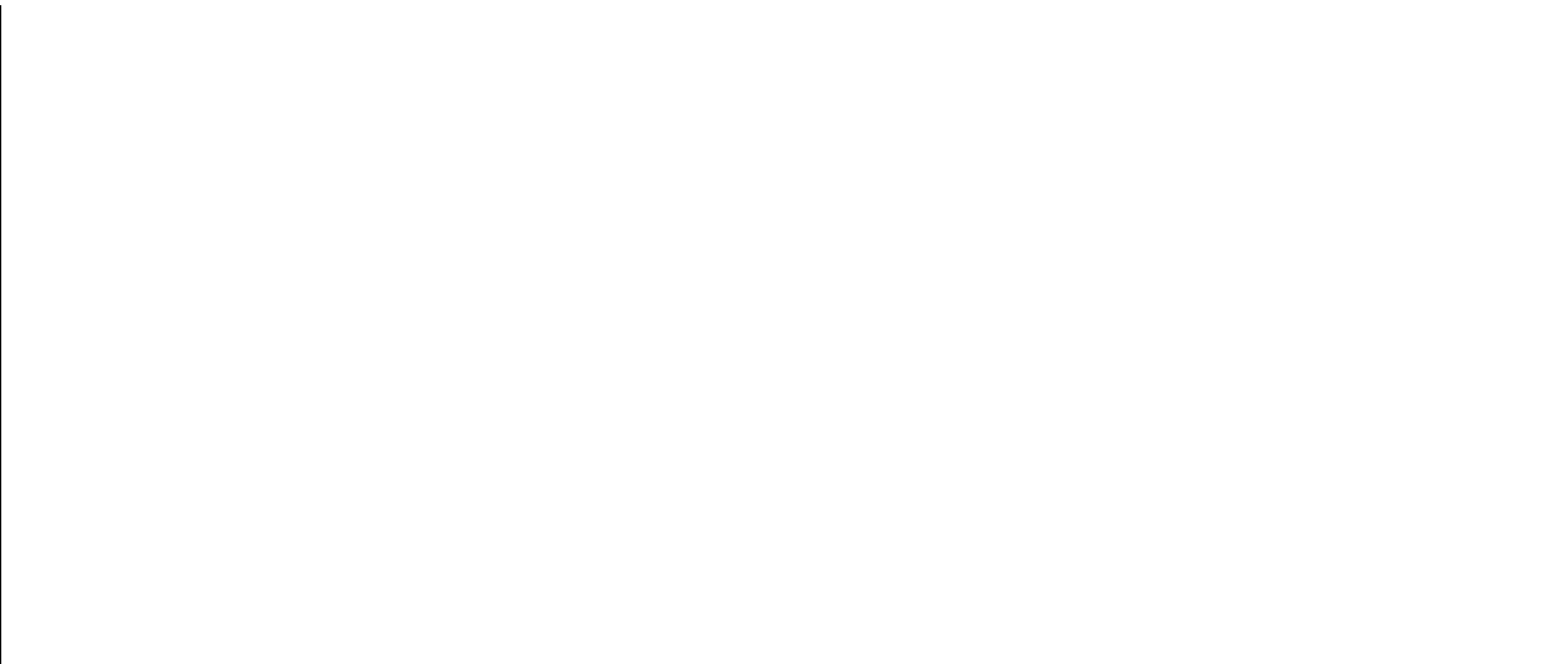
log2Enrichment



Re-clustered module 5.10 MF enrichment

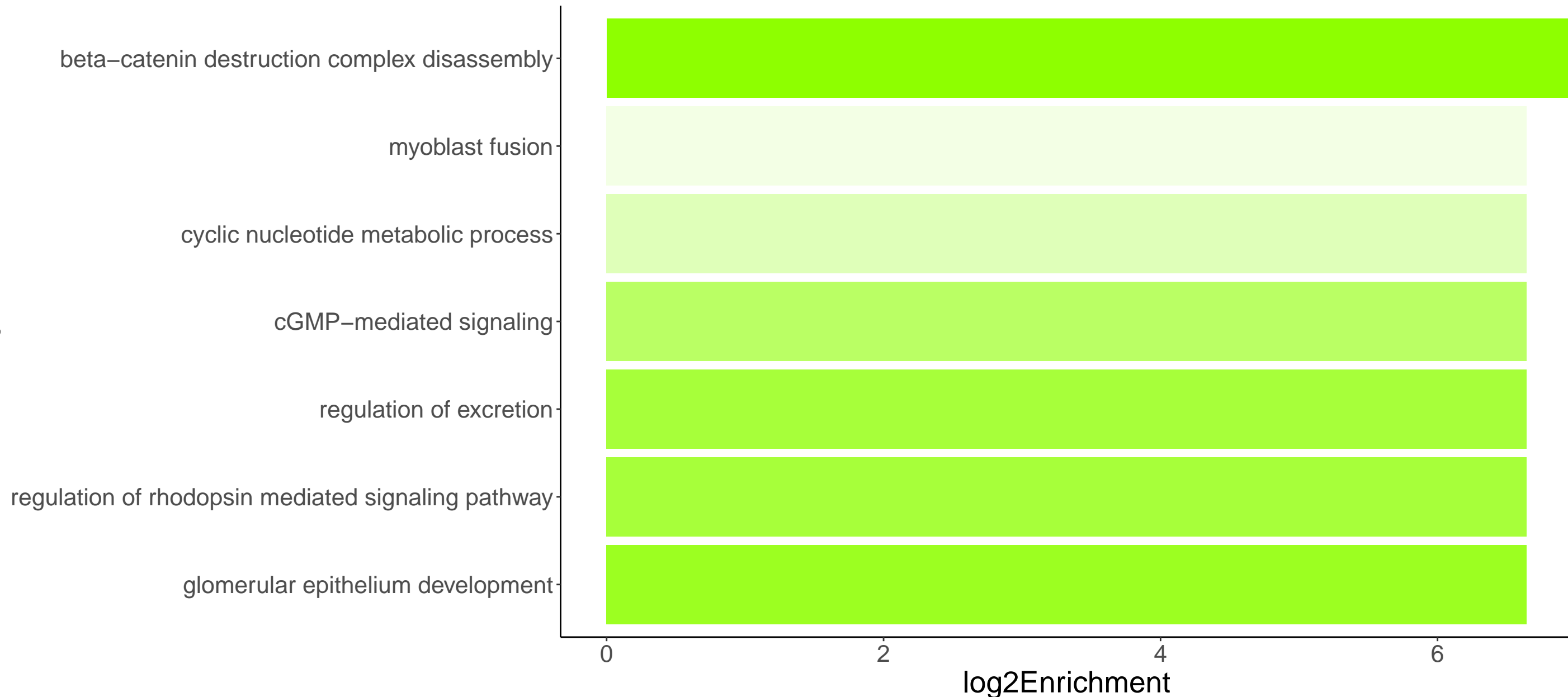
Term

log2Enrichment



## Re-clustered module 5.12.1 BP enrichment

Term



# Re-clustered module 5.12.1 MF enrichment

Term

frizzled binding

0

2

4

6

log2Enrichment





# Re-clustered module 5.12.2 BP enrichment

Term

regulation of cilium movement involved in cell motility

eosinophil migration

0

2

4

6

log2Enrichment



Re-clustered module 5.12.2 MF enrichment

Term

log2Enrichment



# Re-clustered module 5.12.4 BP enrichment

Term

flagellated sperm motility

oogenesis

cell fate specification

0

1

2

3

4

log2Enrichment



Re-clustered module 5.12.4 MF enrichment

Term

log2Enrichment



# Re-clustered module 5.15 BP enrichment

Term

G protein-coupled serotonin receptor signaling pathway

keratinization

detection of chemical stimulus involved in sensory perception of smell

0

2

4

6

log2Enrichment



# Re-clustered module 5.15 MF enrichment

Term

odorant binding

G protein-coupled serotonin receptor activity

olfactory receptor activity

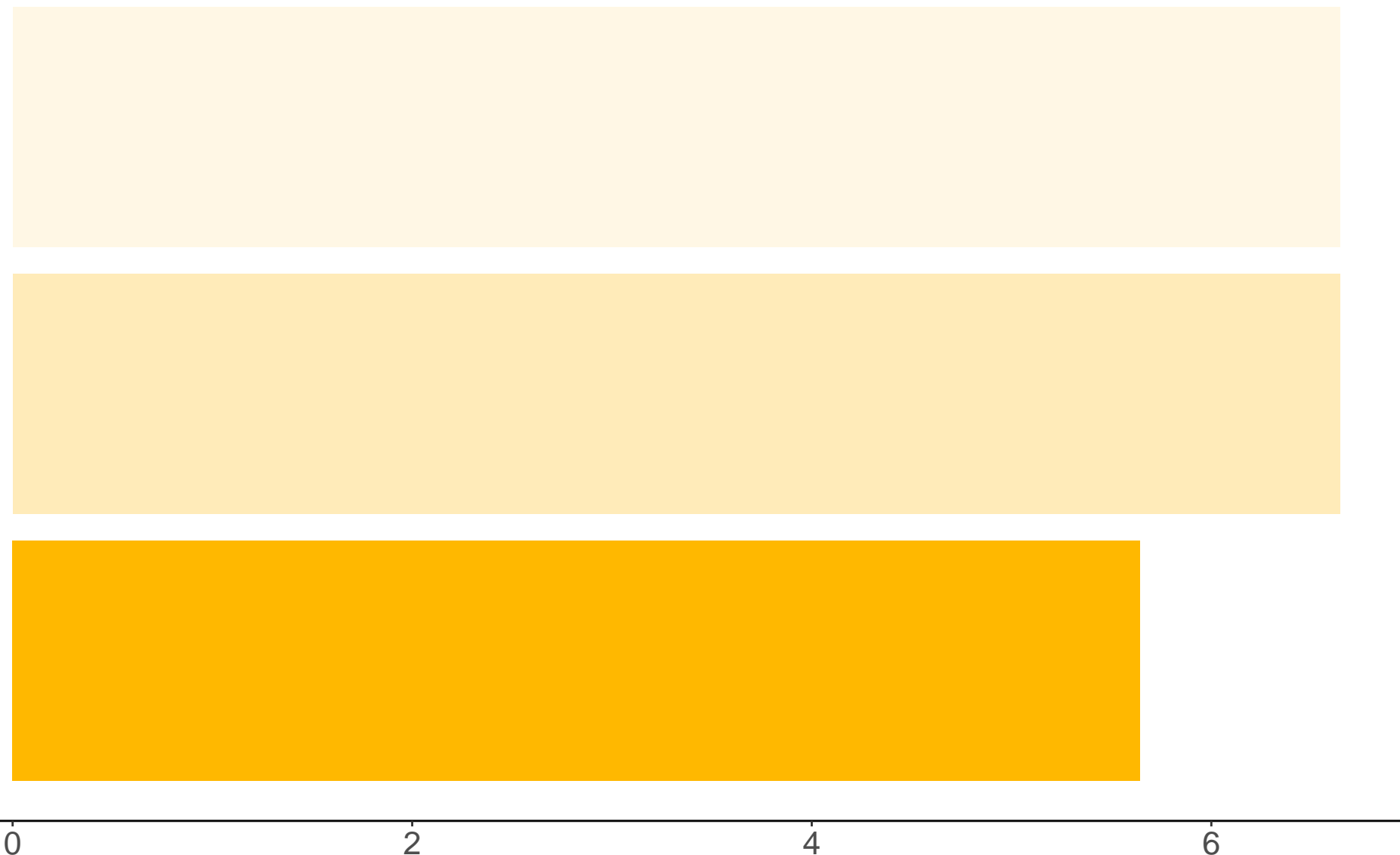
0

2

4

6

log2Enrichment



## Re-clustered module 5.2 BP enrichment

Term

regulation of calcium ion import

regulation of cilium movement involved in cell motility

negative regulation of calcium ion transport

negative regulation of reproductive process

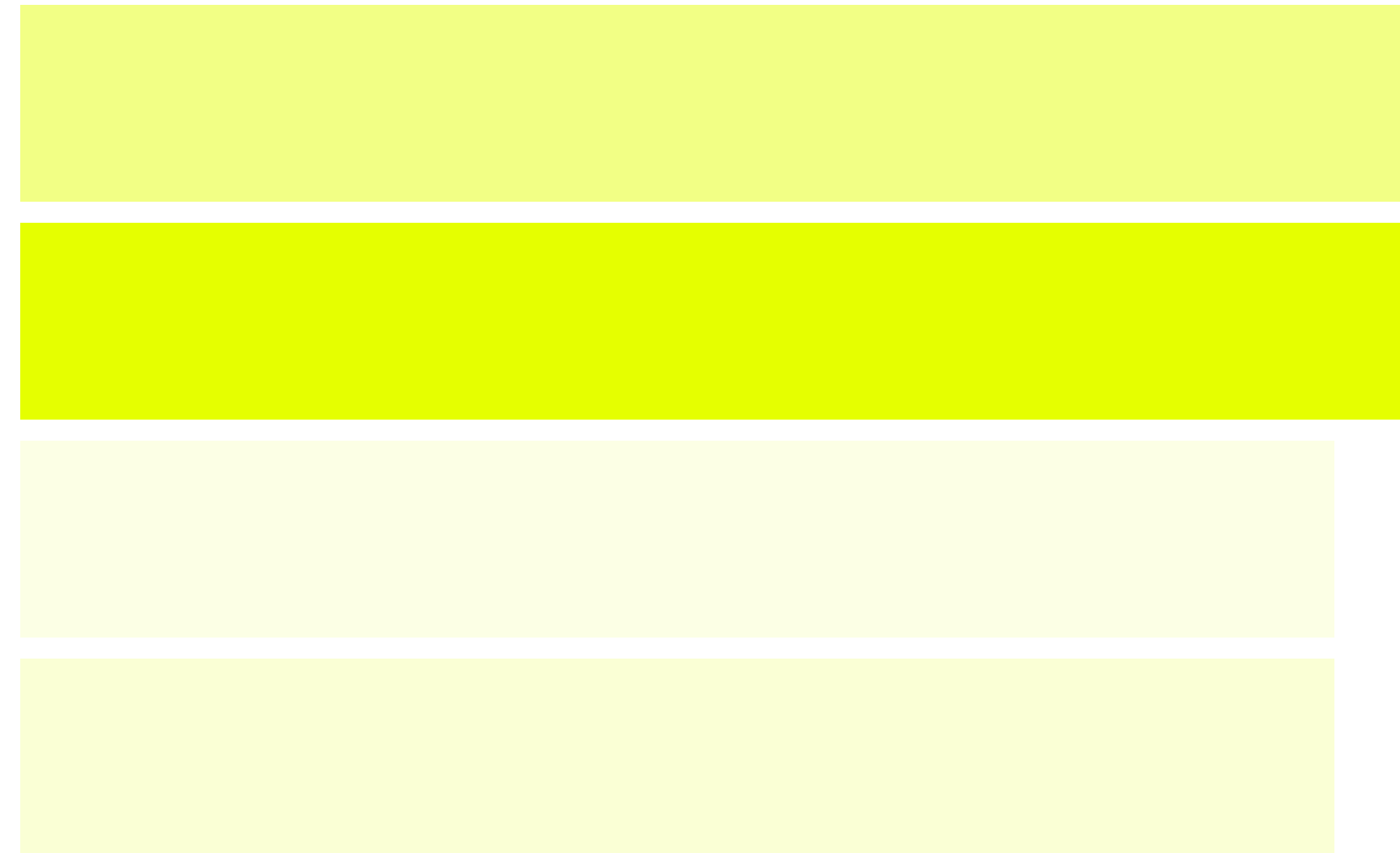
0

2

4

6

log2Enrichment



Re-clustered module 5.2 MF enrichment

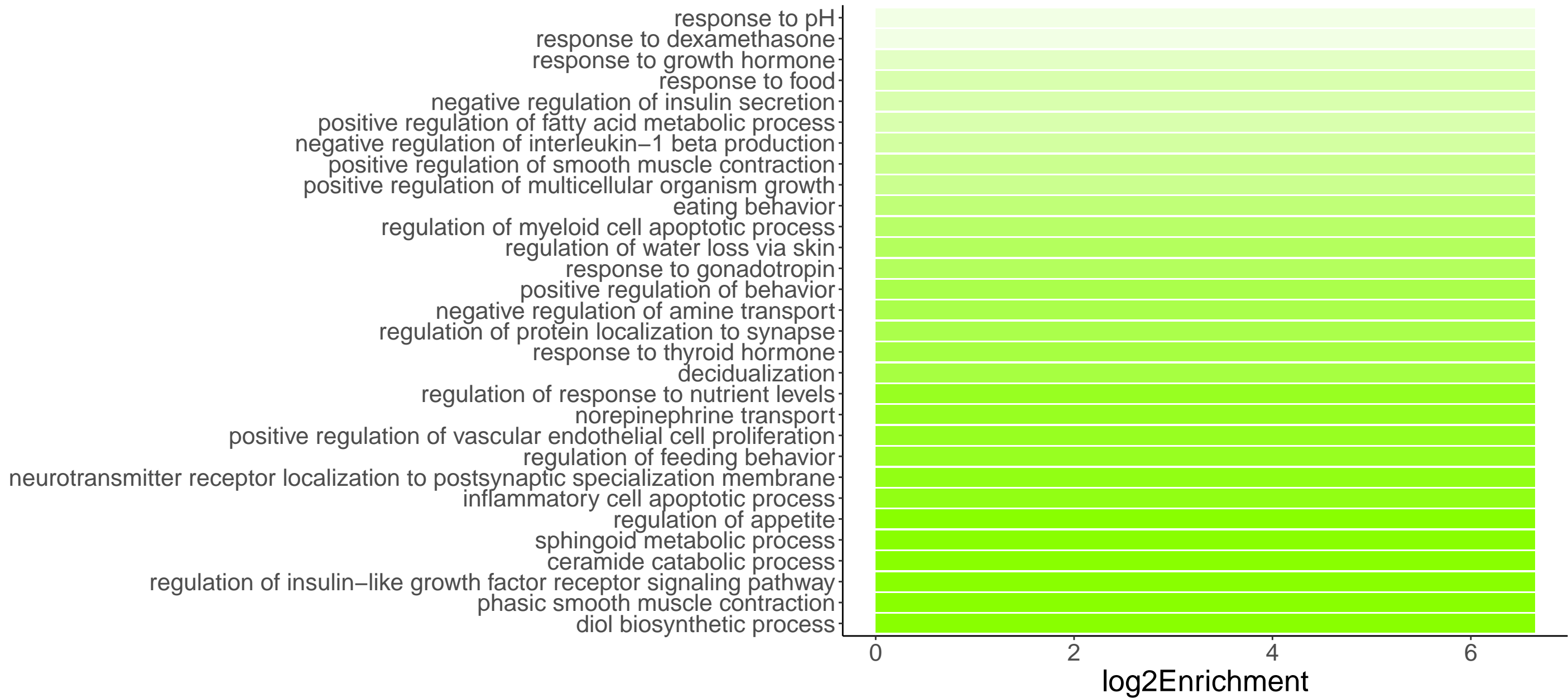
Term

log2Enrichment



Re-clustered module 5.21 BP enrichment

Term



# Re-clustered module 5.21 MF enrichment

Term

adenylyltransferase activity

0

2

4

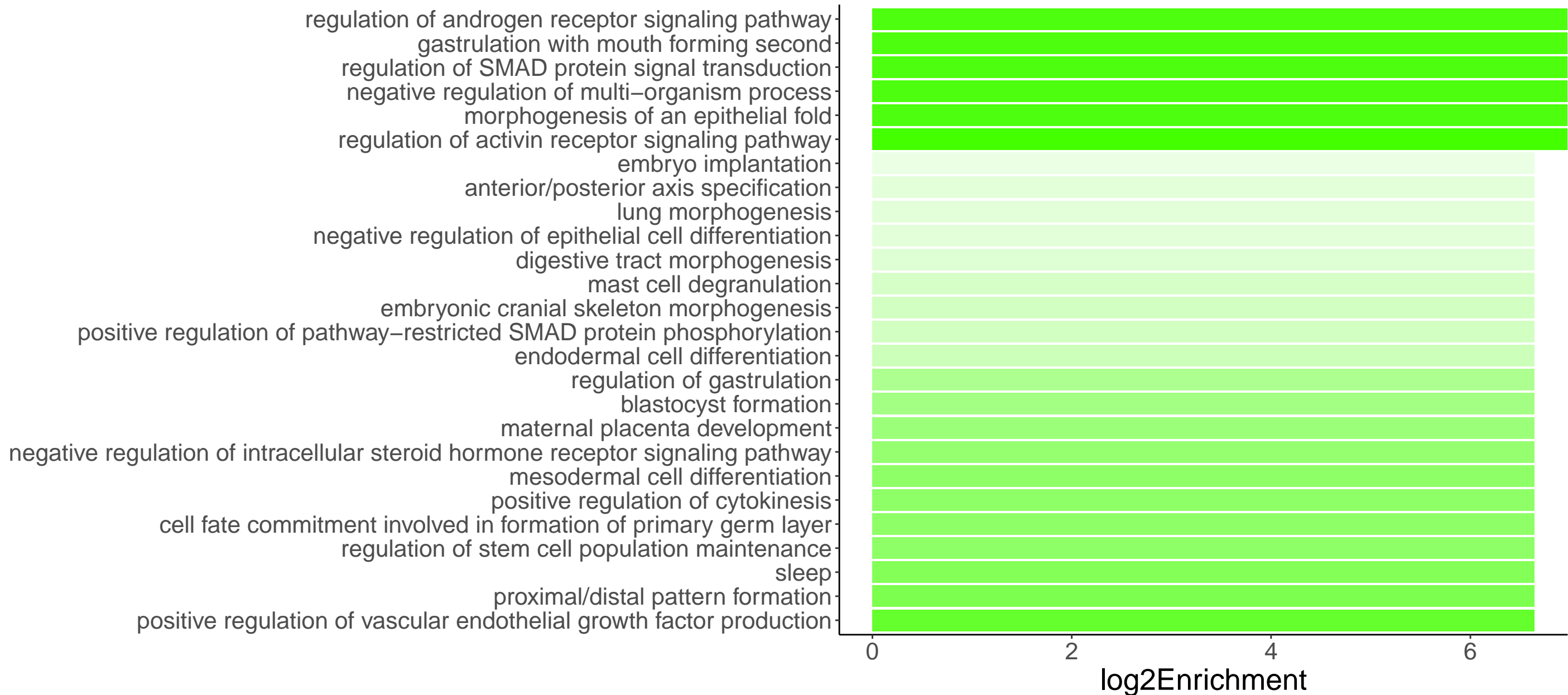
6

log2Enrichment



Re-clustered module 5.23 BP enrichment

Term



# Re-clustered module 5.23 MF enrichment

Term

neuropeptide binding

transmembrane receptor protein serine/threonine kinase binding

G protein-coupled receptor activity

0

1

2

3

4

log2Enrichment



# Re-clustered module 5.3.1 BP enrichment

Term

response to glucocorticoid

0

1

2

3

4

log2Enrichment



# Re-clustered module 5.3.1 MF enrichment

Term

receptor ligand activity

0

1

2

log2Enrichment



## Re-clustered module 5.3.3 BP enrichment

Term

positive regulation of lipid catabolic process

regulation of digestive system process

intestinal absorption

defense response to bacterium

humoral immune response

0

1

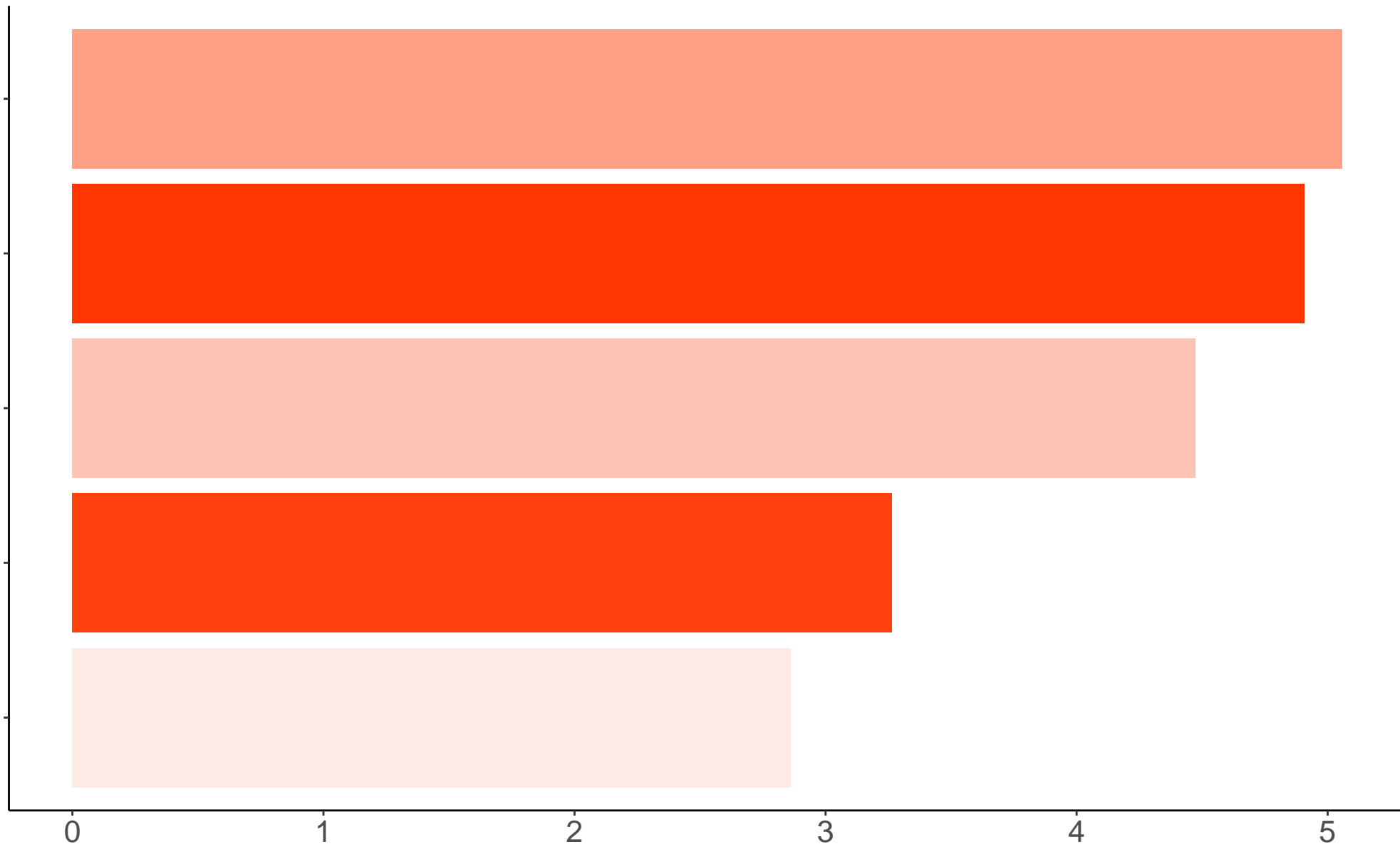
2

3

4

5

log2Enrichment



# Re-clustered module 5.3.3 MF enrichment

Term

steroid hydroxylase activity

hormone activity

extracellular matrix structural constituent

0

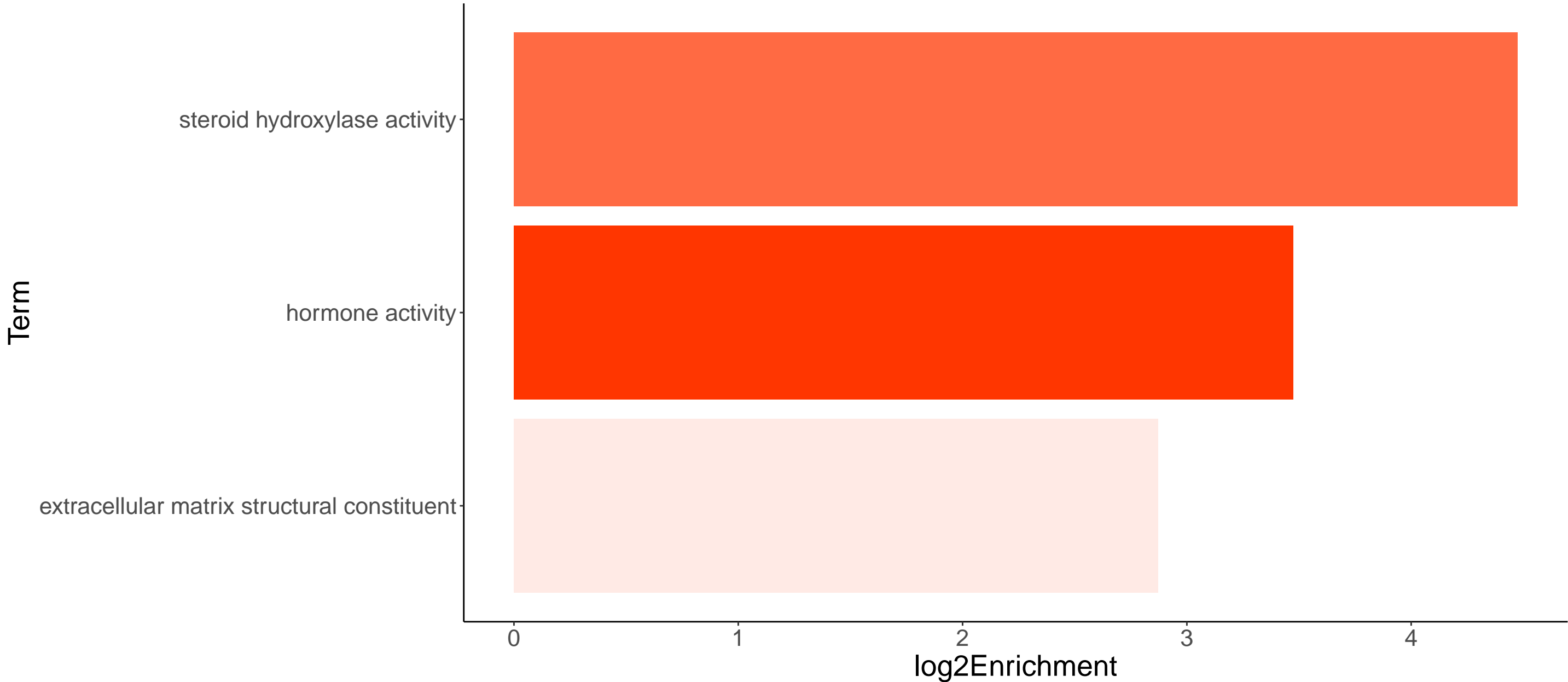
1

2

3

4

log2Enrichment





# Re-clustered module 5.30 BP enrichment

Term

detection of chemical stimulus involved in sensory perception of smell

0

1

2

3

4

log2Enrichment



# Re-clustered module 5.30 MF enrichment

Term

olfactory receptor activity

0

1

2

3

4

log2Enrichment



# Re-clustered module 5.37 BP enrichment

Term

peptidyl-glutamic acid modification

tolerance induction

thymic T cell selection

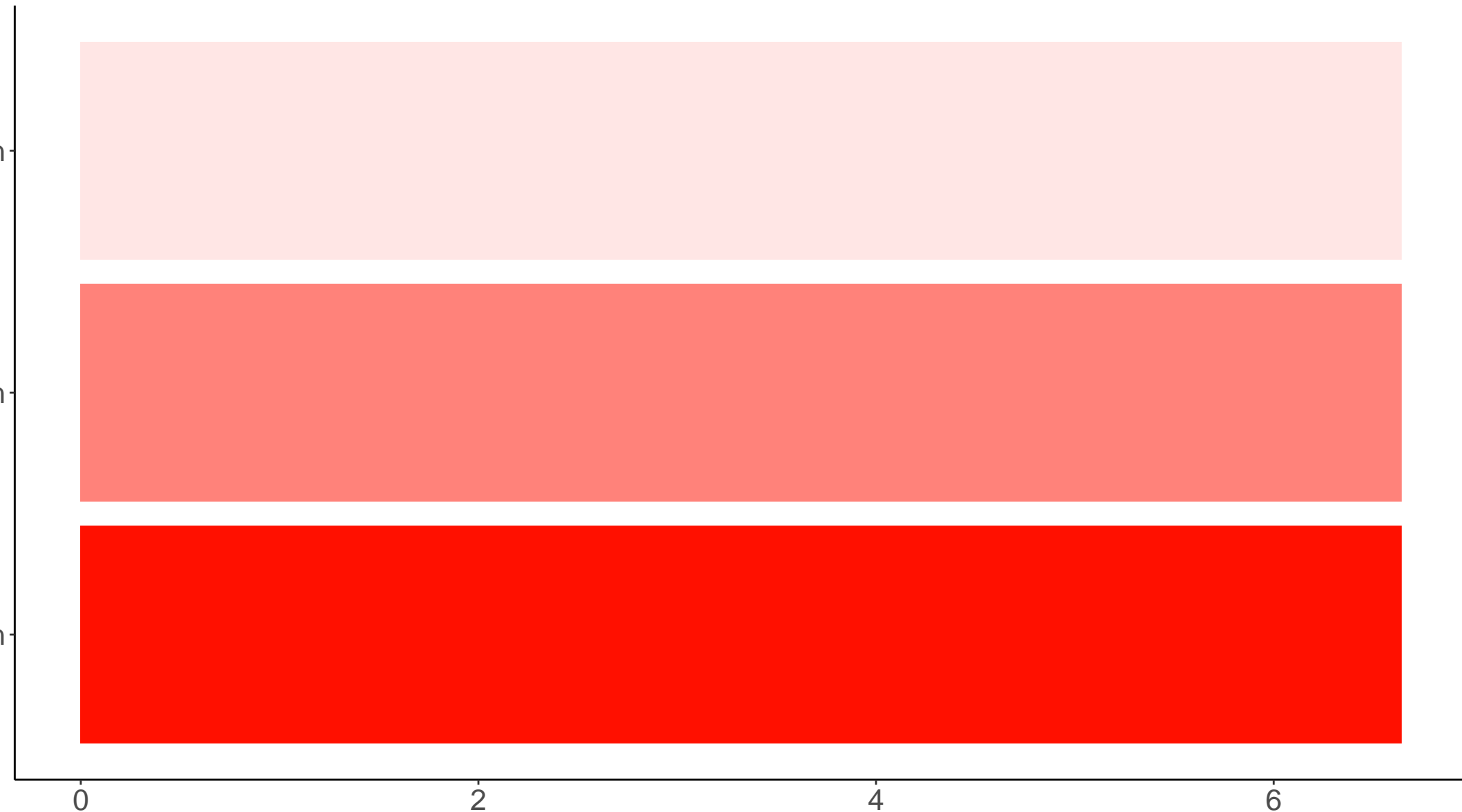
0

2

4

6

log2Enrichment



# Re-clustered module 5.37 MF enrichment

Term

structural constituent of nuclear pore

alpha-actinin binding

nuclear localization sequence binding

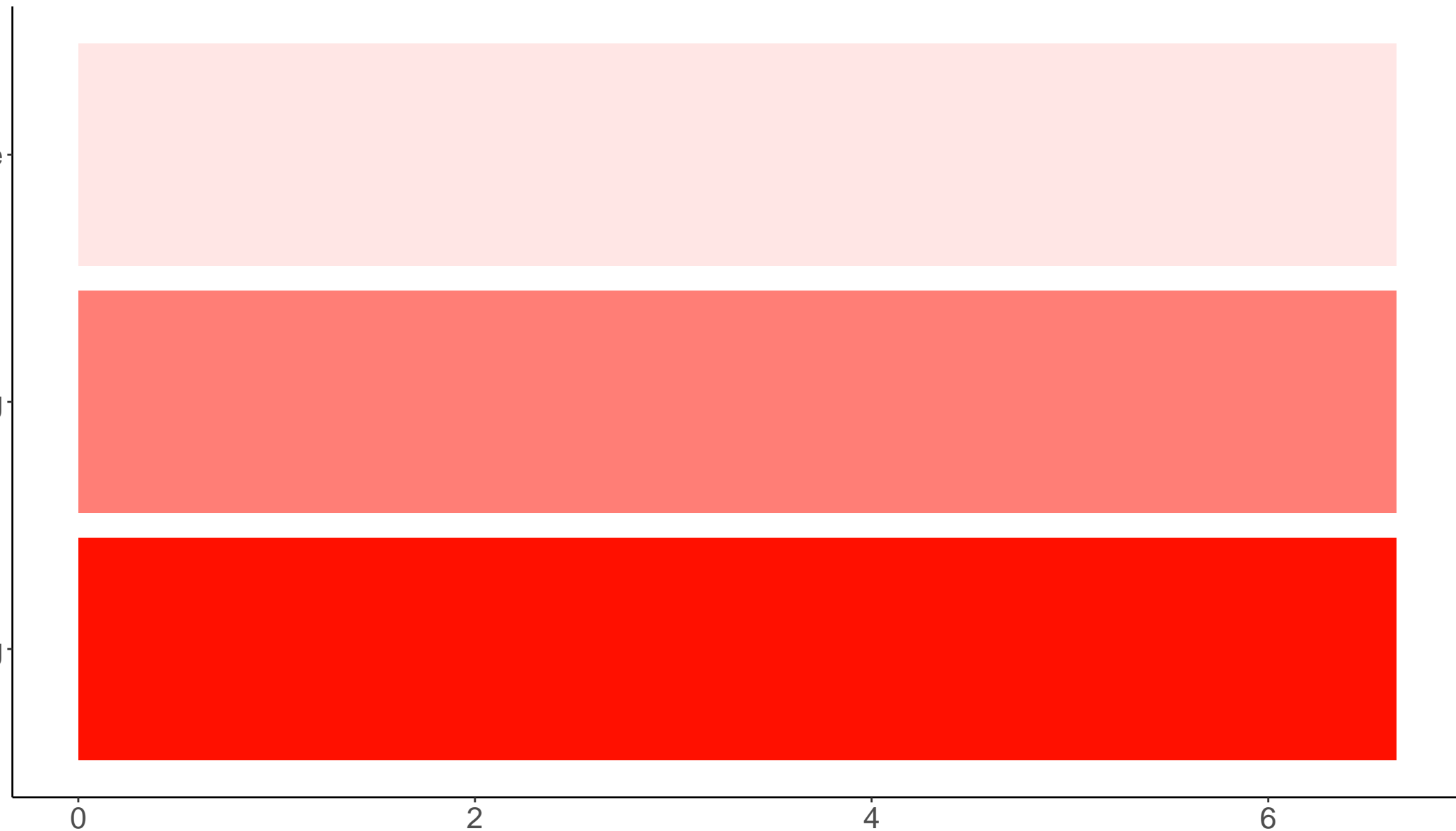
0

2

4

6

log2Enrichment



# Re-clustered module 5.4.1 BP enrichment

Term

water transport

detection of chemical stimulus involved in sensory perception of smell

G protein-coupled receptor signaling pathway

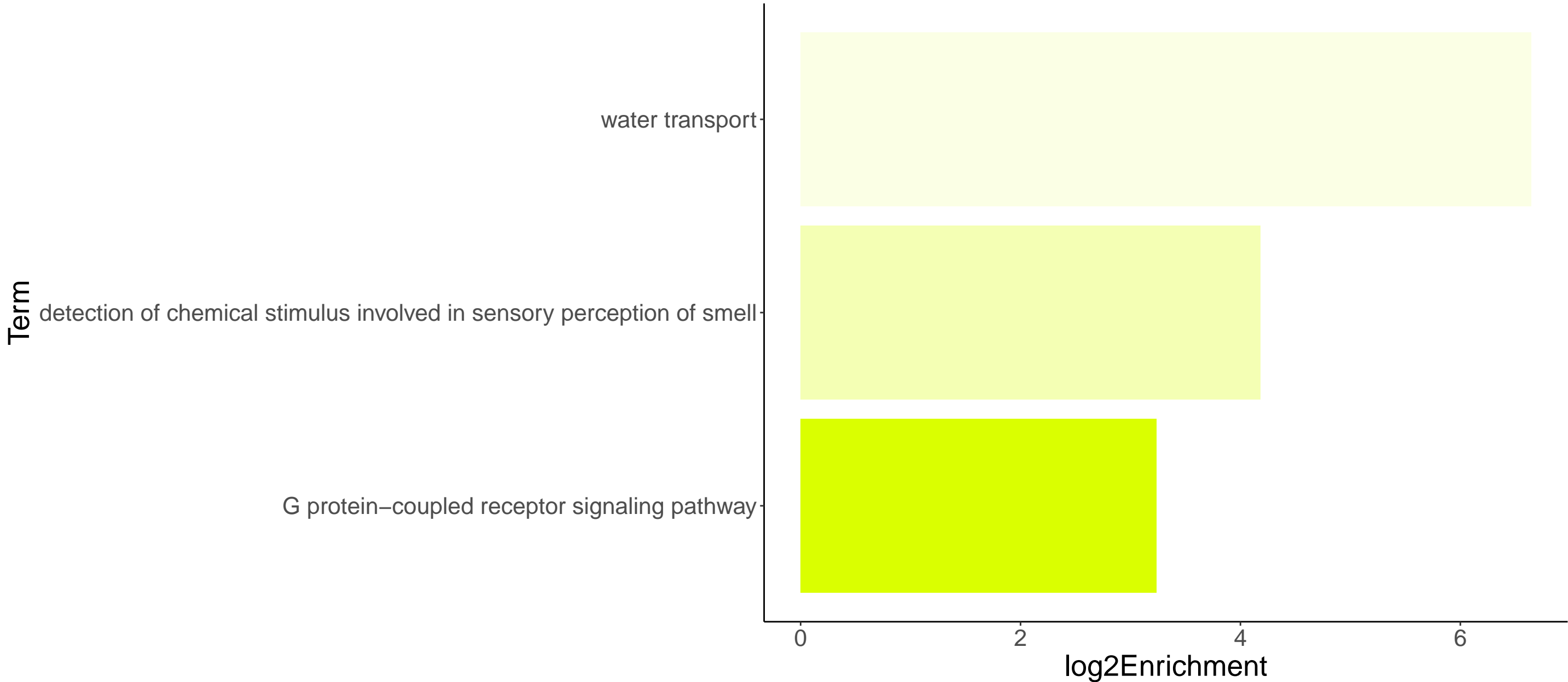
0

2

4

6

log2Enrichment



# Re-clustered module 5.4.1 MF enrichment

Term

olfactory receptor activity

0

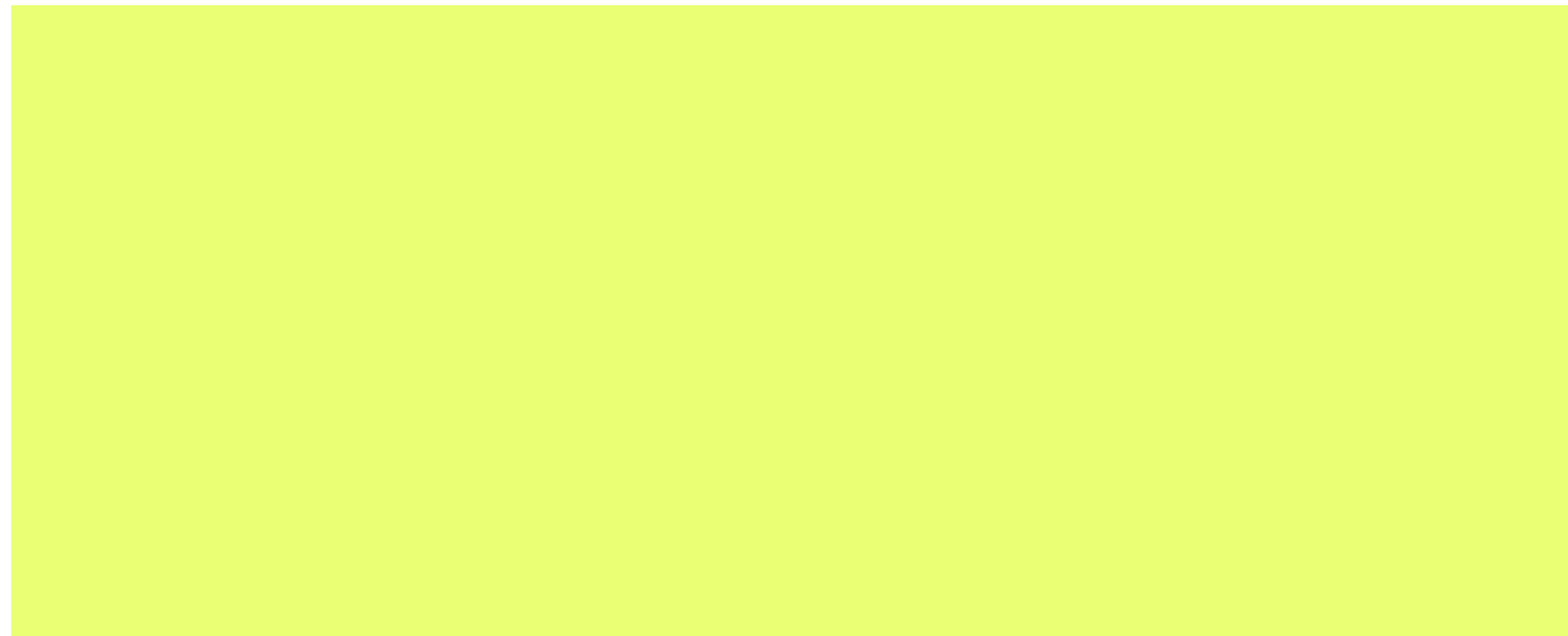
1

2

3

4

log2Enrichment



# Re-clustered module 5.4.2 BP enrichment

Term

positive regulation of neuroblast proliferation

cerebral cortex radial glia guided migration

0

2

4

6

log2Enrichment



Re-clustered module 5.4.2 MF enrichment

Term

log2Enrichment





# Re-clustered module 5.4.3 BP enrichment

Term

DNA demethylation

cell-cell adhesion via plasma-membrane adhesion molecules

0

2

4

6

log2Enrichment



Re-clustered module 5.4.3 MF enrichment

Term

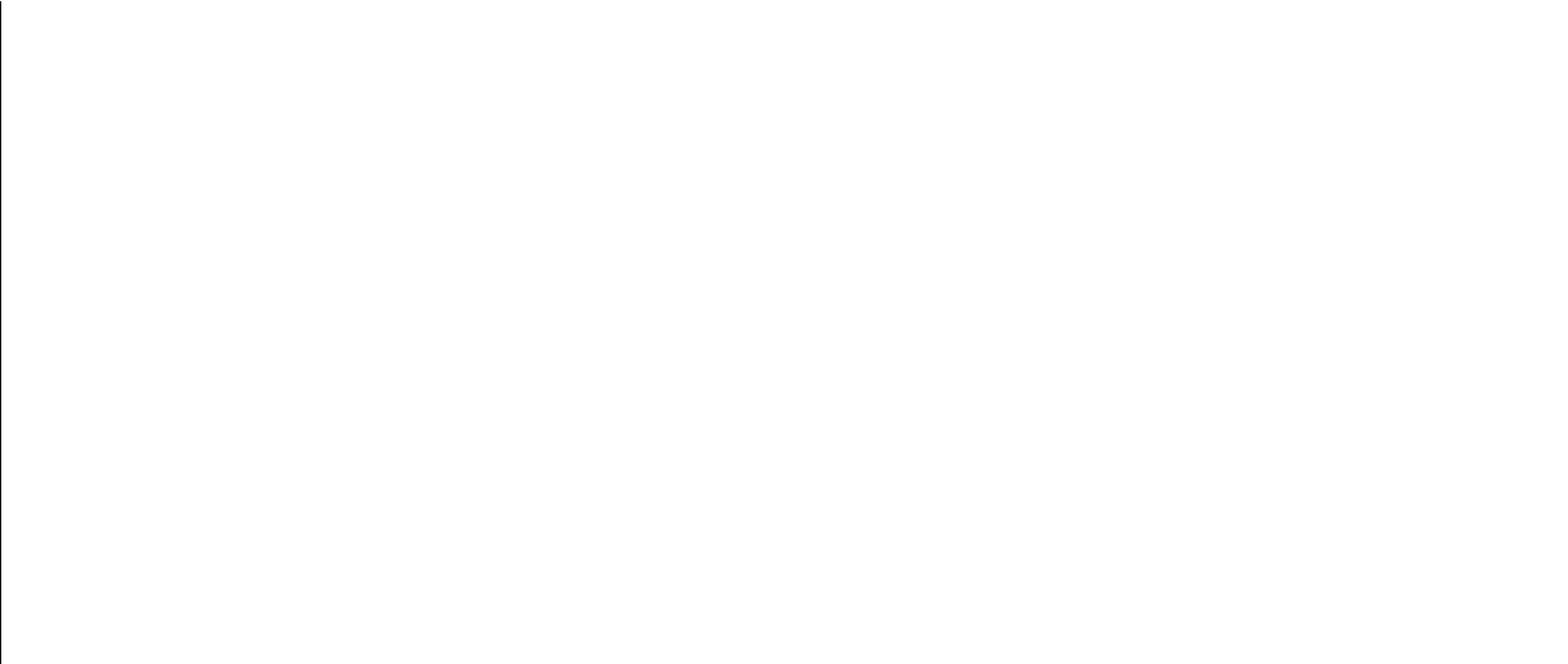
log2Enrichment



Re-clustered module 5.4.4 BP enrichment

Term

log2Enrichment



# Re-clustered module 5.4.4 MF enrichment

Term

phosphatidylinositol phospholipase C activity

0

2

4

6

log2Enrichment



# Re-clustered module 5.4.5 BP enrichment

Term

detection of chemical stimulus involved in sensory perception of smell

G protein-coupled receptor signaling pathway

0 1 2 3 4 5

log2Enrichment



# Re-clustered module 5.4.5 MF enrichment

Term

olfactory receptor activity

G protein-coupled receptor activity

0

1

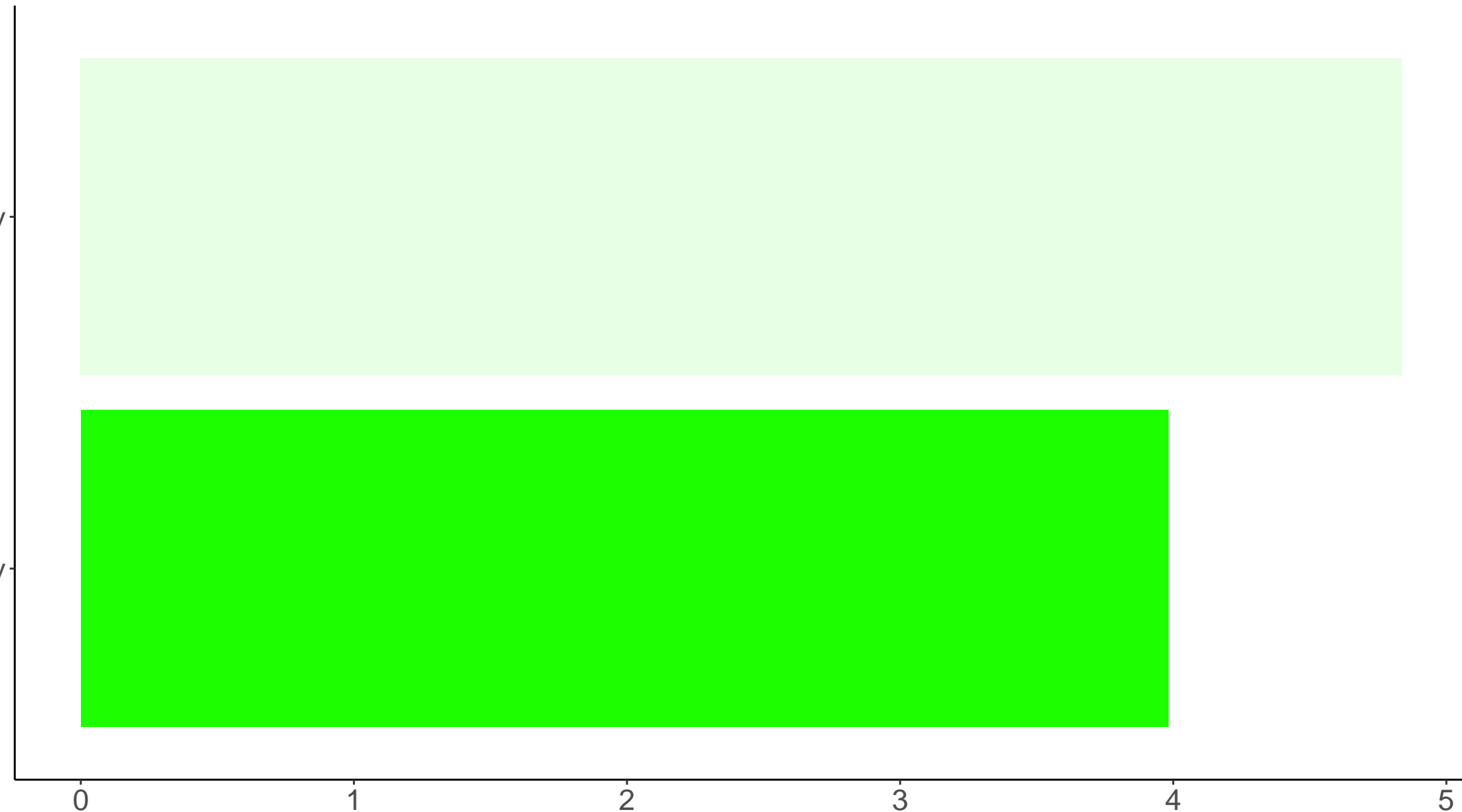
2

3

4

5

log2Enrichment



# Re-clustered module 5.4.7 BP enrichment

Term

ATP transport

0

2

4

6

log2Enrichment



# Re-clustered module 5.4.7 MF enrichment

Term

transforming growth factor beta receptor binding

calcium activated cation channel activity

peptide hormone receptor binding

hormone activity

0

2

4

6

log2Enrichment





# Re-clustered module 5.4.9 BP enrichment

Term

regulation of cytokinesis

0

2

4

log2Enrichment



# Re-clustered module 5.4.9 MF enrichment

Term

taste receptor activity

glutathione transferase activity

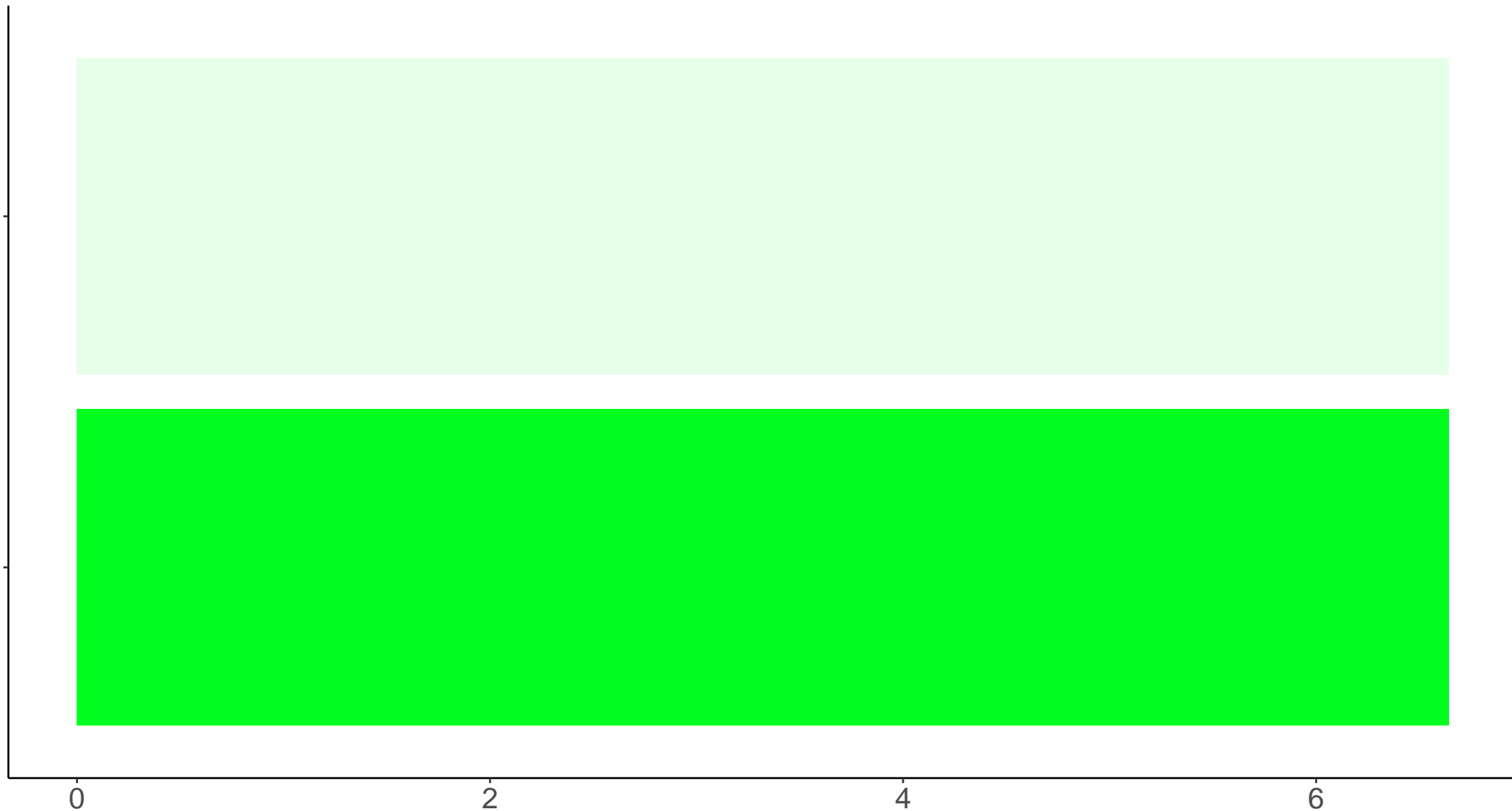
0

2

4

6

log2Enrichment



## Re-clustered module 5.40 BP enrichment

Term

regulation of protein sumoylation

mature B cell differentiation involved in immune response

positive regulation of natural killer cell mediated cytotoxicity

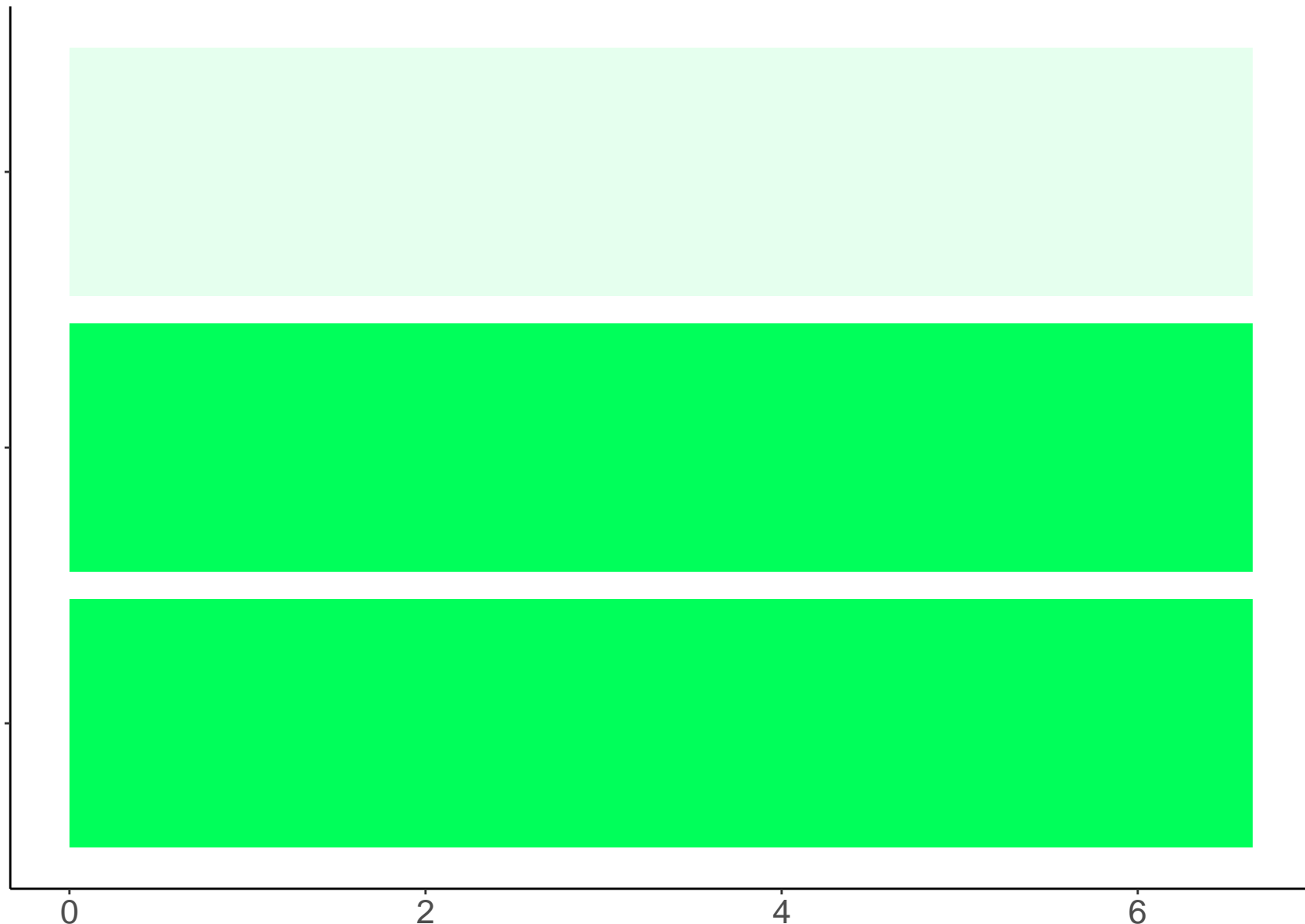
0

2

4

6

log2Enrichment



# Re-clustered module 5.40 MF enrichment

Term

oxygen binding

0

2

4

6

log2Enrichment



# Re-clustered module 5.5.1 BP enrichment

Term

skeletal muscle contraction

cellular response to cAMP

calcium ion transmembrane transport

0

1

2

3

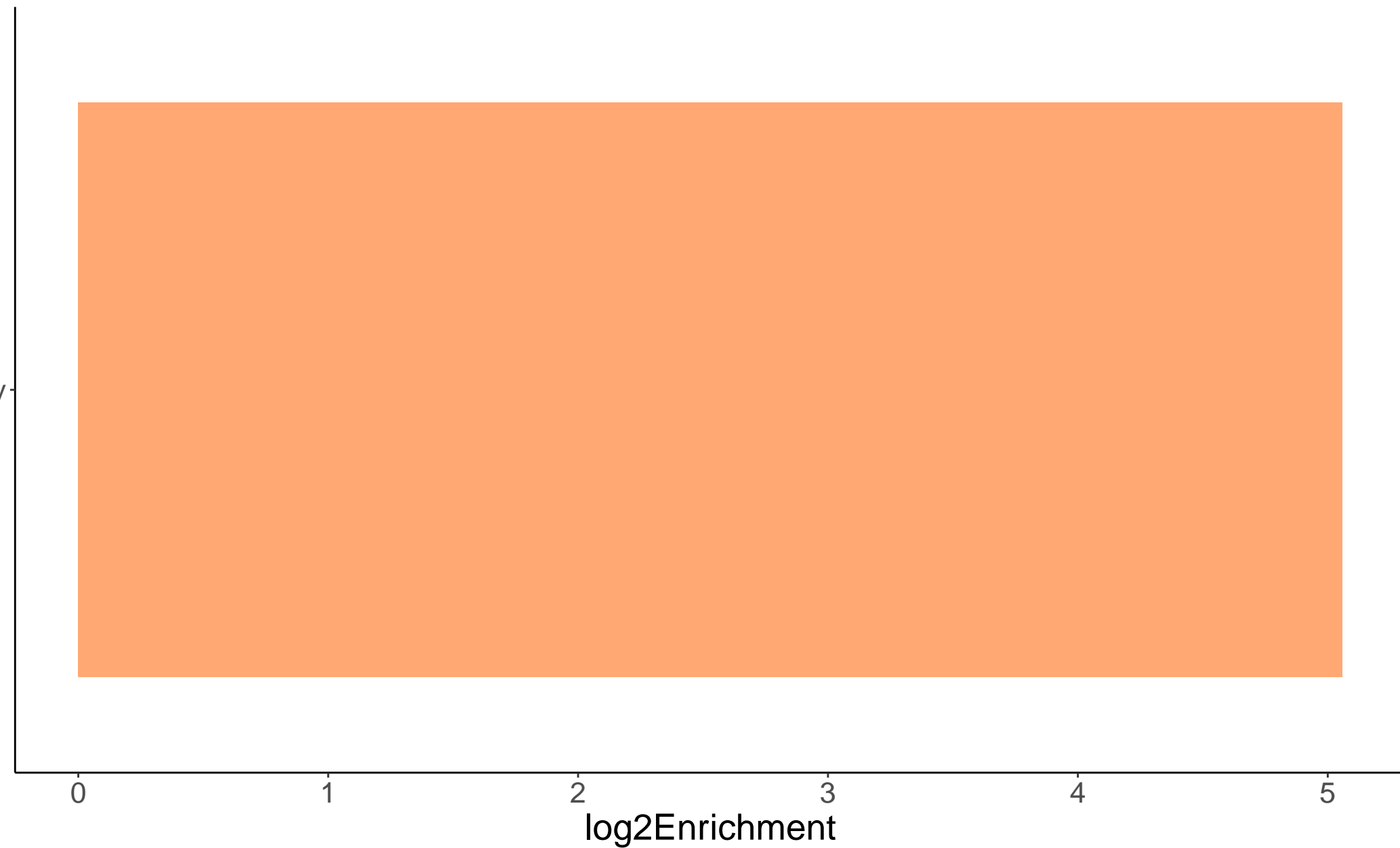
4

log2Enrichment



# Re-clustered module 5.5.1 MF enrichment

Term voltage-gated calcium channel activity



# Re-clustered module 5.5.2 BP enrichment

Term

positive regulation of G protein-coupled receptor signaling pathway

cilium movement involved in cell motility

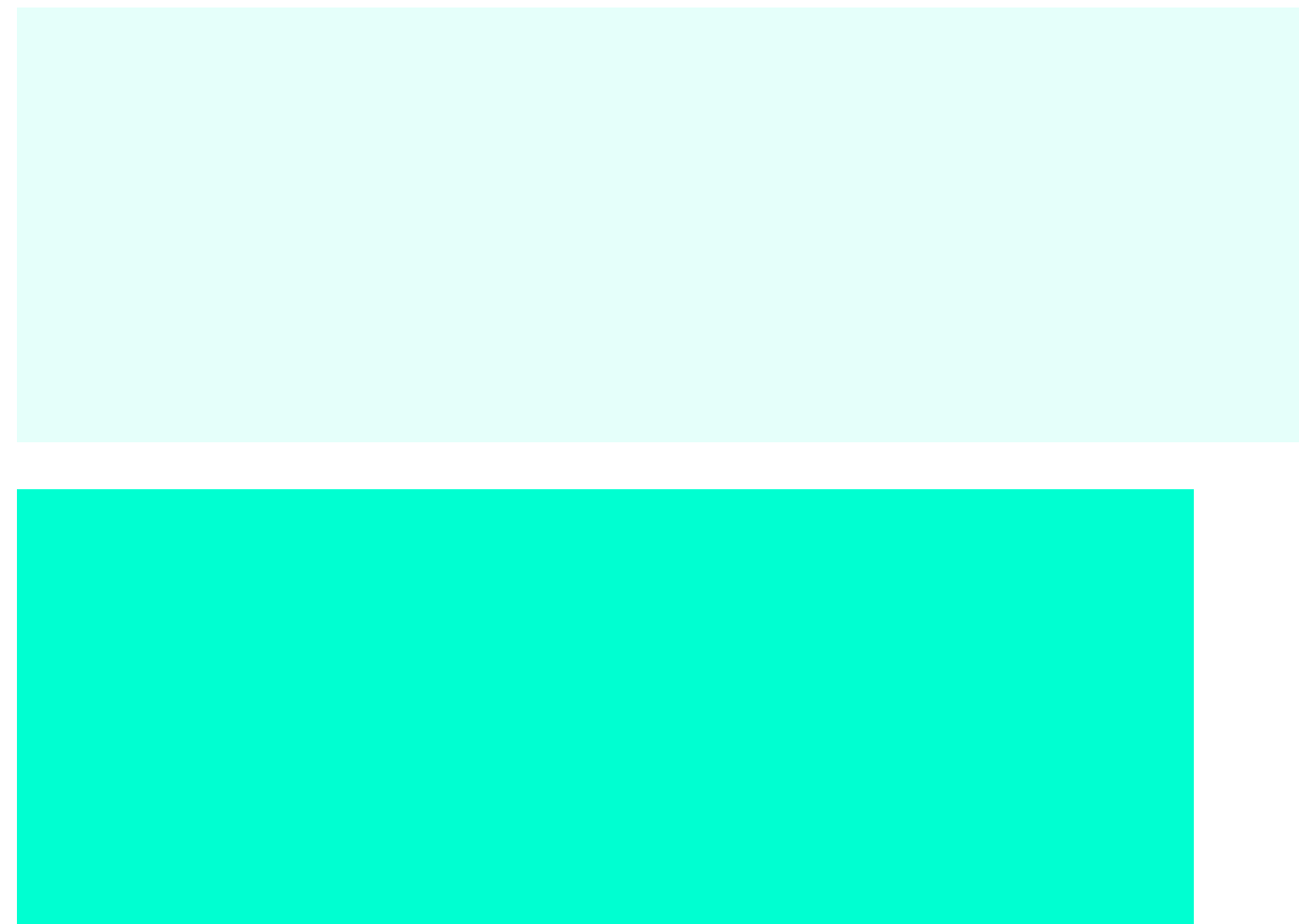
0

2

4

6

log2Enrichment



# Re-clustered module 5.5.2 MF enrichment

Term

cytoskeletal anchor activity

actin filament binding

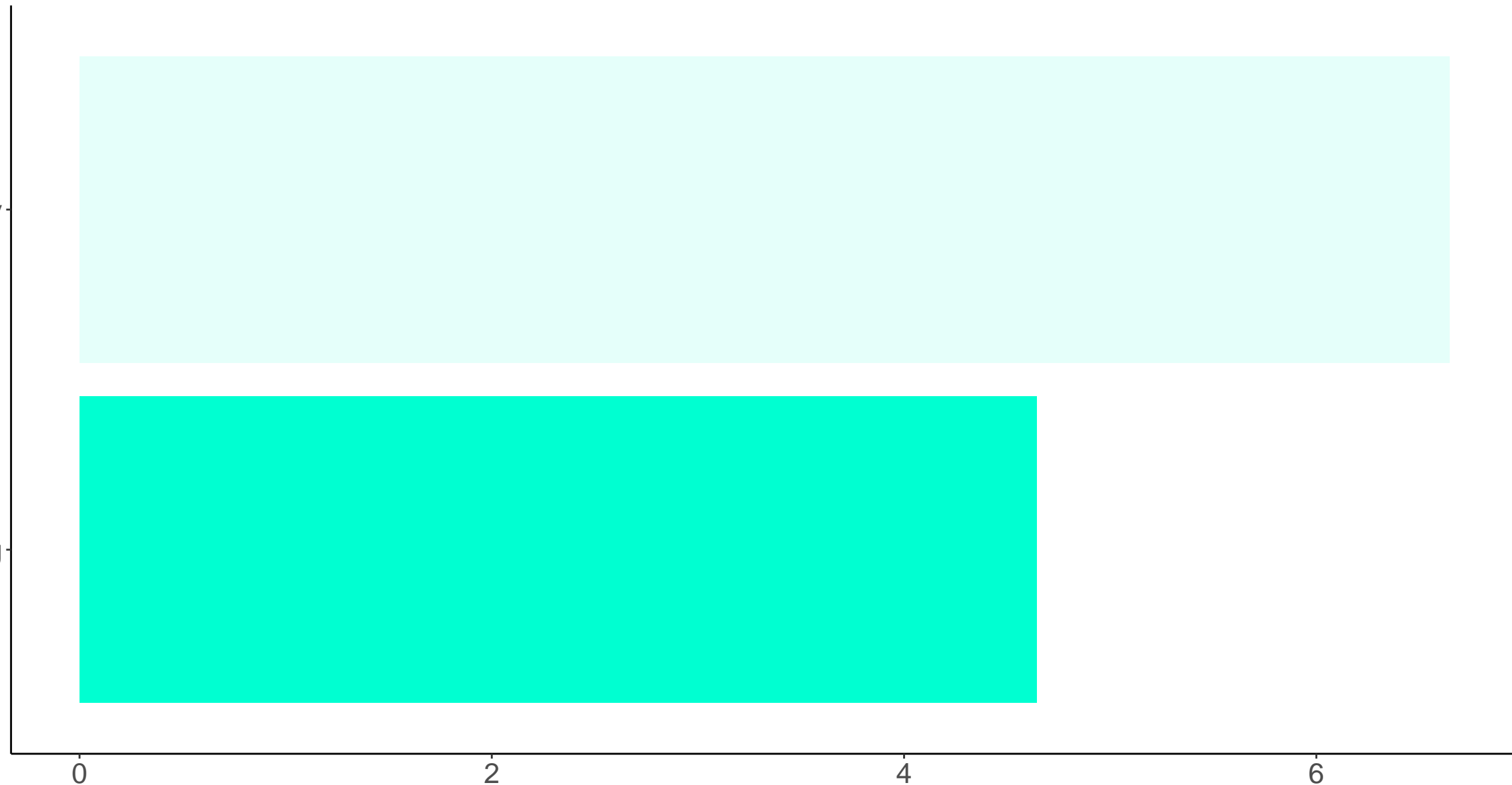
0

2

4

6

log2Enrichment





# Re-clustered module 5.5.3 BP enrichment

Term skeletal system morphogenesis

0

1

2

3

4

log2Enrichment



Re-clustered module 5.5.3 MF enrichment

Term

log2Enrichment



# Re-clustered module 5.5.4 BP enrichment

Term

neurotransmitter receptor transport

receptor localization to synapse

regulation of postsynaptic membrane neurotransmitter receptor levels

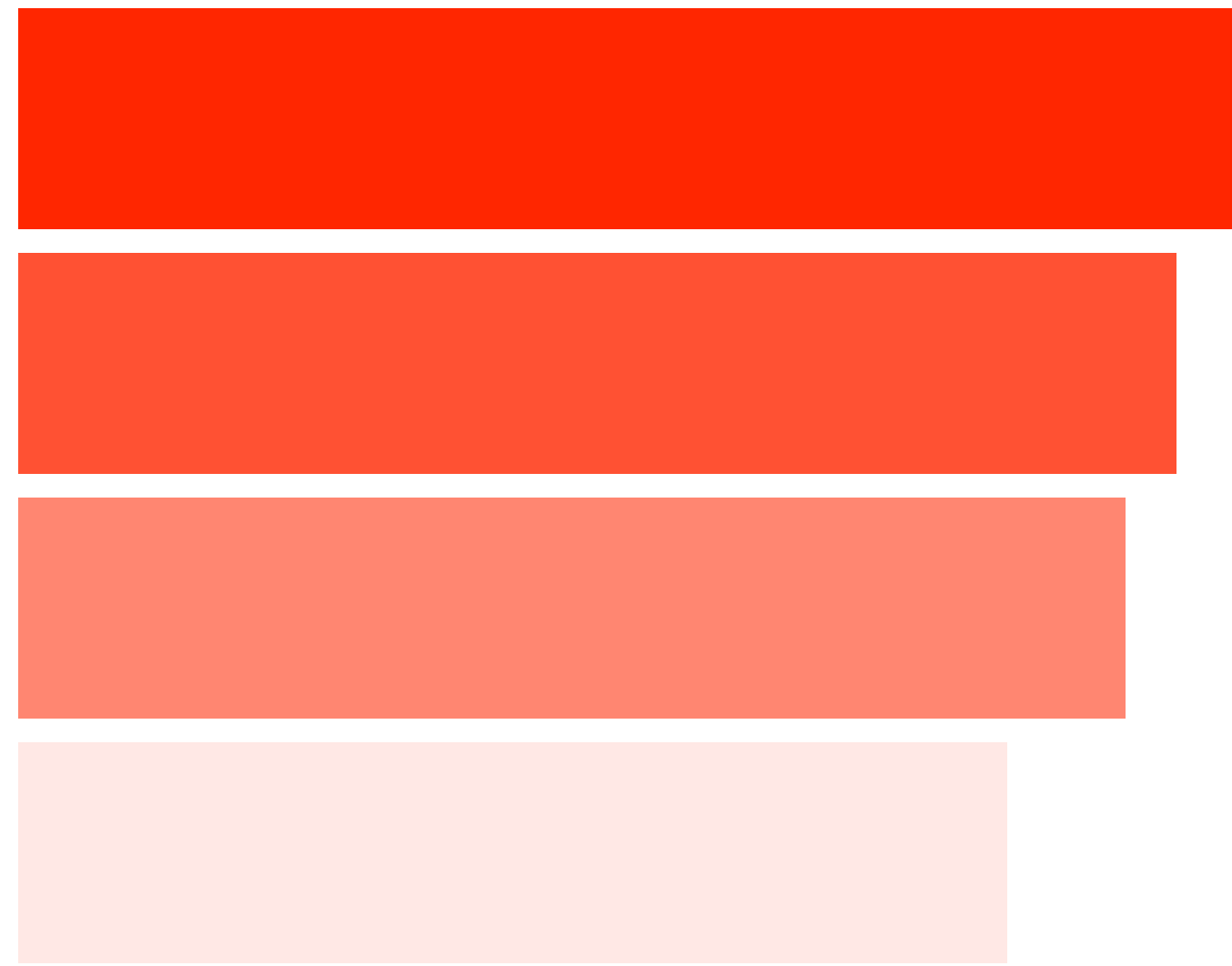
retinoid metabolic process

0

2

4

log2Enrichment



Re-clustered module 5.5.4 MF enrichment

Term

log2Enrichment



# Re-clustered module 5.5.5 BP enrichment

Term

visual perception

0

1

2

3

4

log2Enrichment



Re-clustered module 5.5.5 MF enrichment

Term

log2Enrichment



# Re-clustered module 5.5.7 BP enrichment

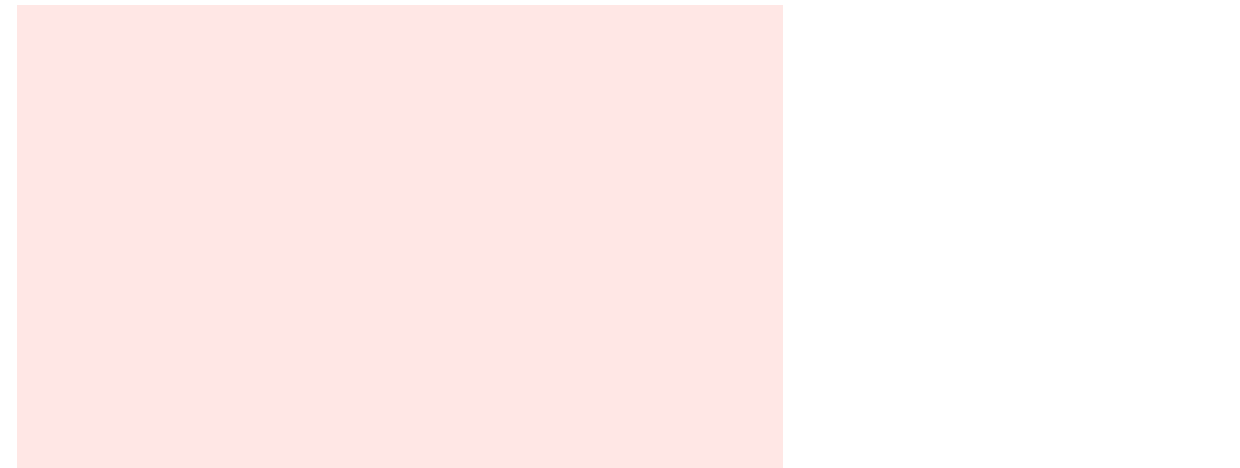
Term

regulation of cAMP-mediated signaling

adenylate cyclase-modulating G protein-coupled receptor signaling pathway

0 1 2 3 4

log2Enrichment



# Re-clustered module 5.5.7 MF enrichment

Term

chloride channel activity

0

1

2

3

4

log2Enrichment





# Re-clustered module 5.5.8 BP enrichment

Term

G protein-coupled serotonin receptor signaling pathway

adenylate cyclase-modulating G protein-coupled receptor signaling pathway

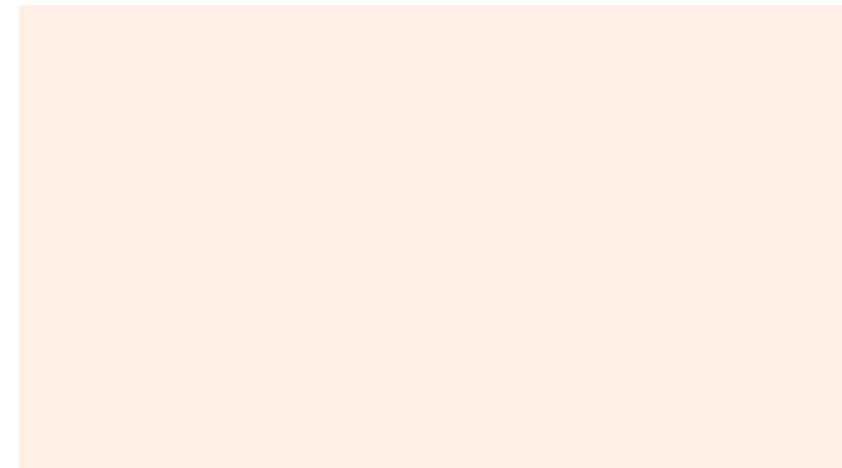
0

2

4

6

log2Enrichment



# Re-clustered module 5.5.8 MF enrichment

Term

G protein-coupled serotonin receptor activity

neurotransmitter receptor activity

G protein-coupled receptor activity

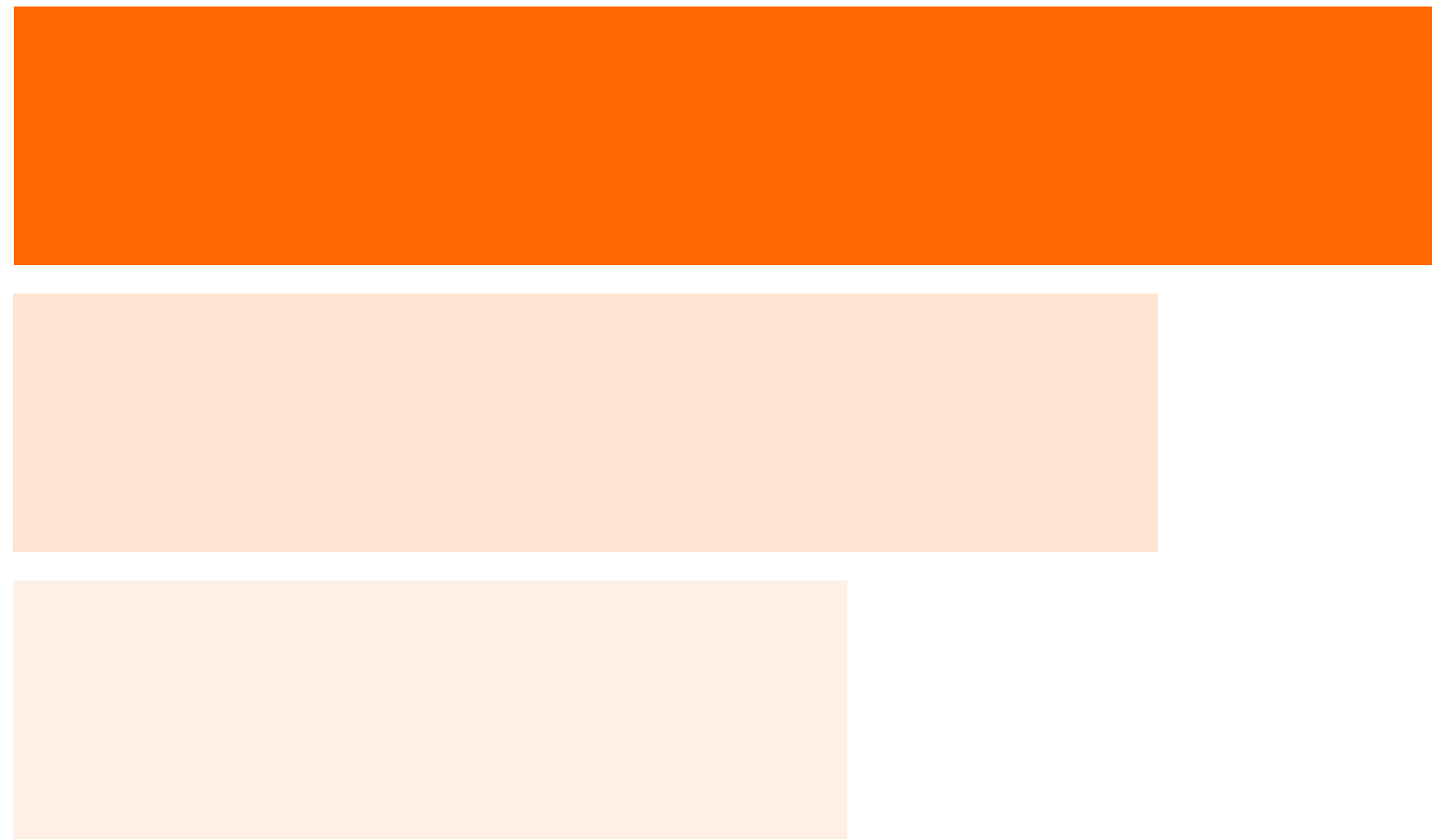
0

2

4

6

log2Enrichment



# Re-clustered module 5.6.1 BP enrichment

Term

steroid hormone biosynthetic process

ketone biosynthetic process

positive regulation of reactive oxygen species biosynthetic process

olefinic compound metabolic process

triglyceride metabolic process

0

1

2

3

4

5

log2Enrichment



# Re-clustered module 5.6.1 MF enrichment

Term

ligand-gated calcium channel activity

0

2

4

6

log2Enrichment



Re-clustered module 5.6.2 BP enrichment

Term

log2Enrichment



# Re-clustered module 5.6.2 MF enrichment

Term serine-type endopeptidase activity



# Re-clustered module 5.6.4 BP enrichment

Term

eating behavior

response to dietary excess

0

2

4

6

log2Enrichment



# Re-clustered module 5.6.4 MF enrichment

Term

neuropeptide receptor binding

neuropeptide hormone activity

cytokine activity

0

2

4

6

log2Enrichment





# Re-clustered module 5.7.1 BP enrichment

Term

excitatory postsynaptic potential

0

1

2

3

4

log2Enrichment



Term

transmitter-gated ion channel activity involved in regulation of postsynaptic membrane potential

ligand-gated cation channel activity

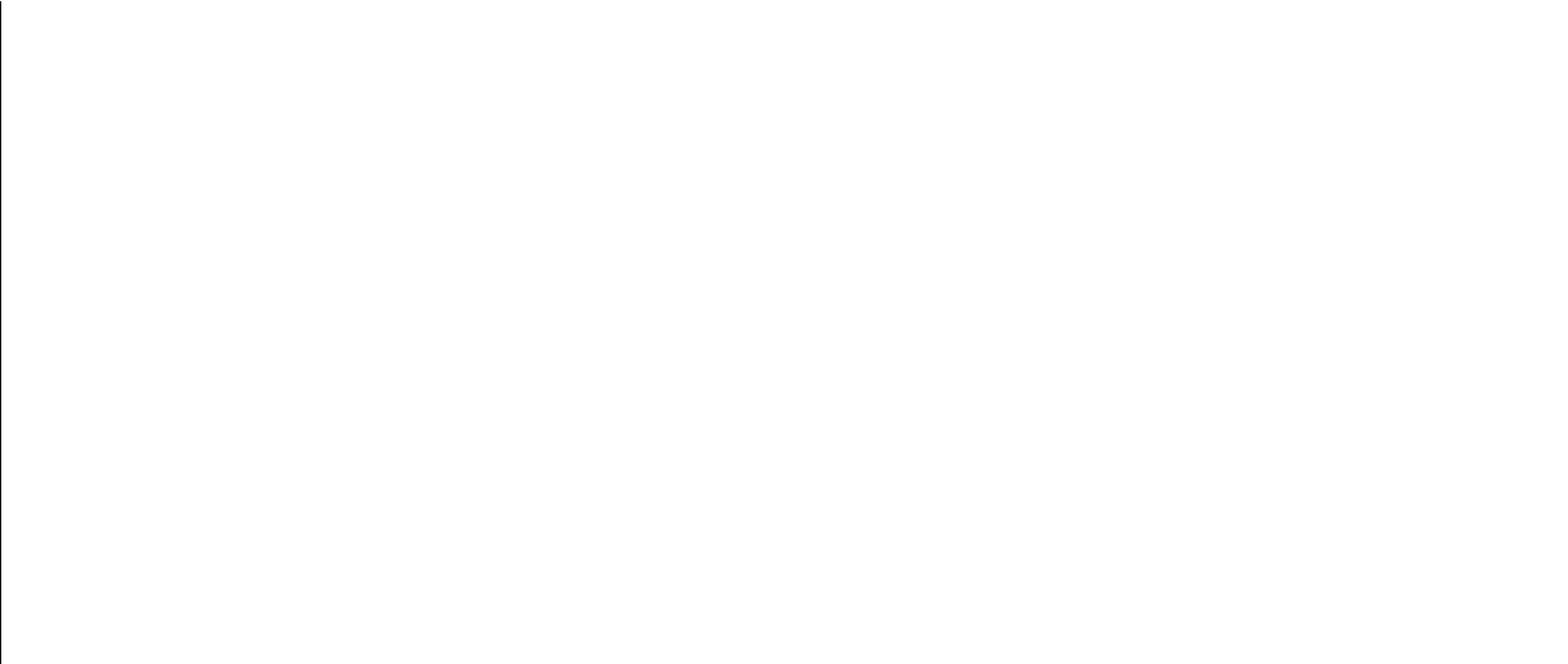
transmembrane signaling receptor activity



Re-clustered module 5.7.13 BP enrichment

Term

log2Enrichment



# Re-clustered module 5.7.13 MF enrichment

Term

G protein-coupled receptor activity

0.0

0.5

1.0

1.5

2.0

2.5

log2Enrichment



## Re-clustered module 5.7.2 BP enrichment

Term

sperm capacitation

regulation of cilium movement involved in cell motility

linoleic acid metabolic process

defense response to bacterium

0

2

4

6

log2Enrichment



Re-clustered module 5.7.2 MF enrichment

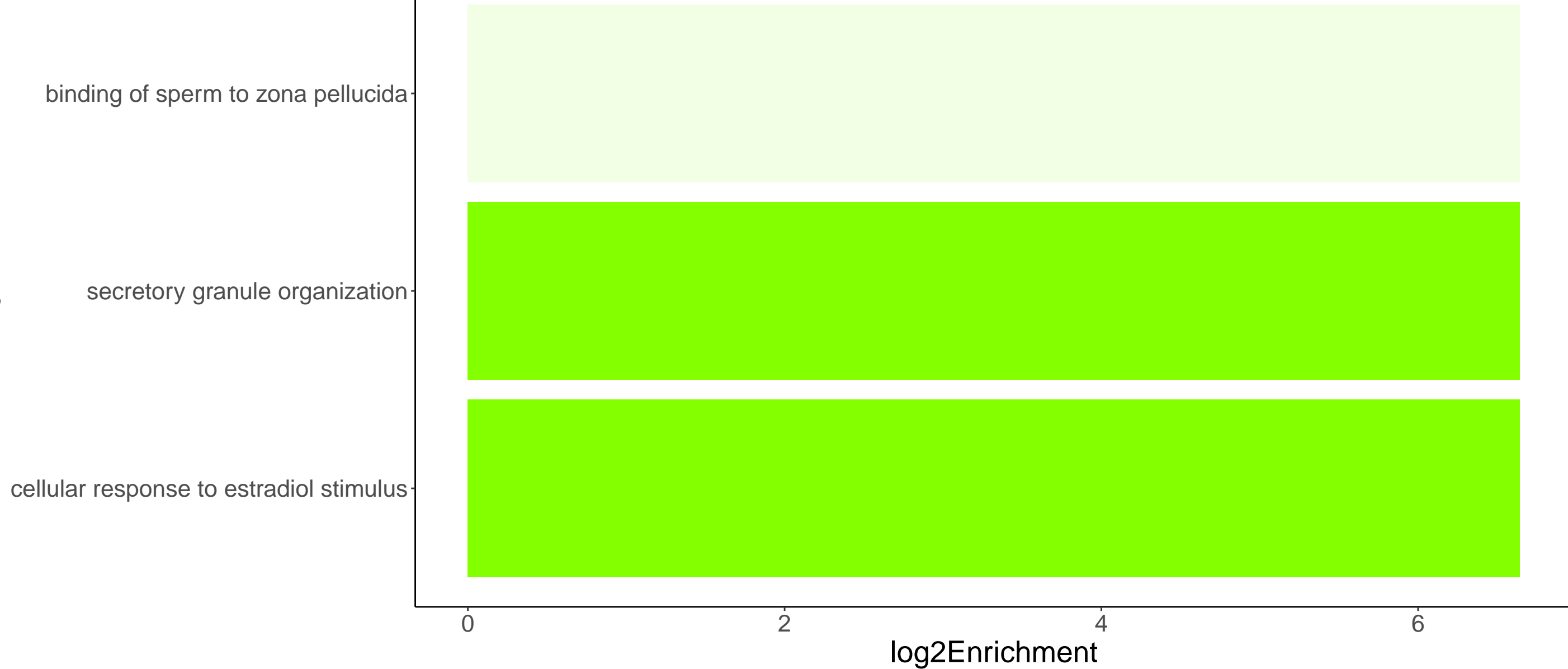
Term

log2Enrichment



# Re-clustered module 5.7.3 BP enrichment

Term



# Re-clustered module 5.7.3 MF enrichment

Term

neuropeptide binding

0

2

4

6

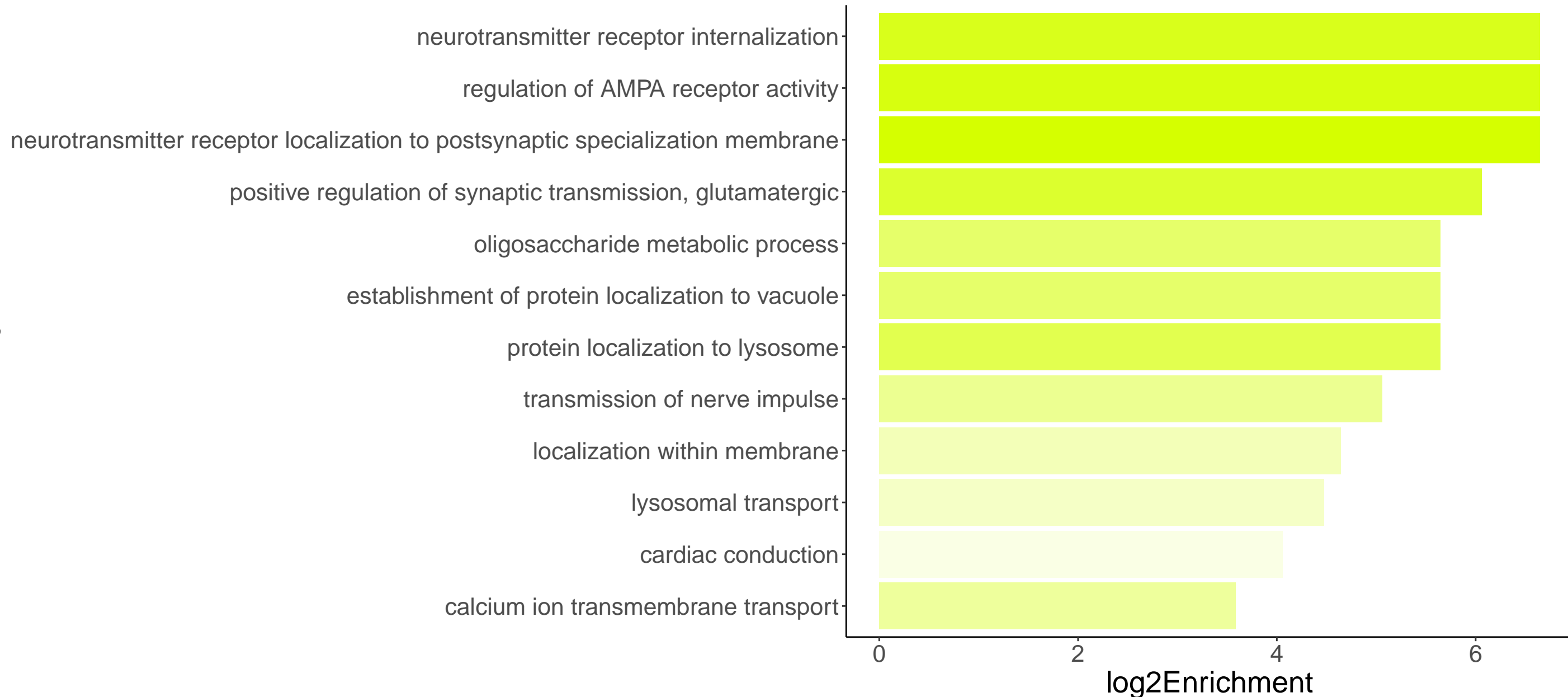
log2Enrichment





## Re-clustered module 5.7.7 BP enrichment

Term



Re-clustered module 5.7.7 MF enrichment

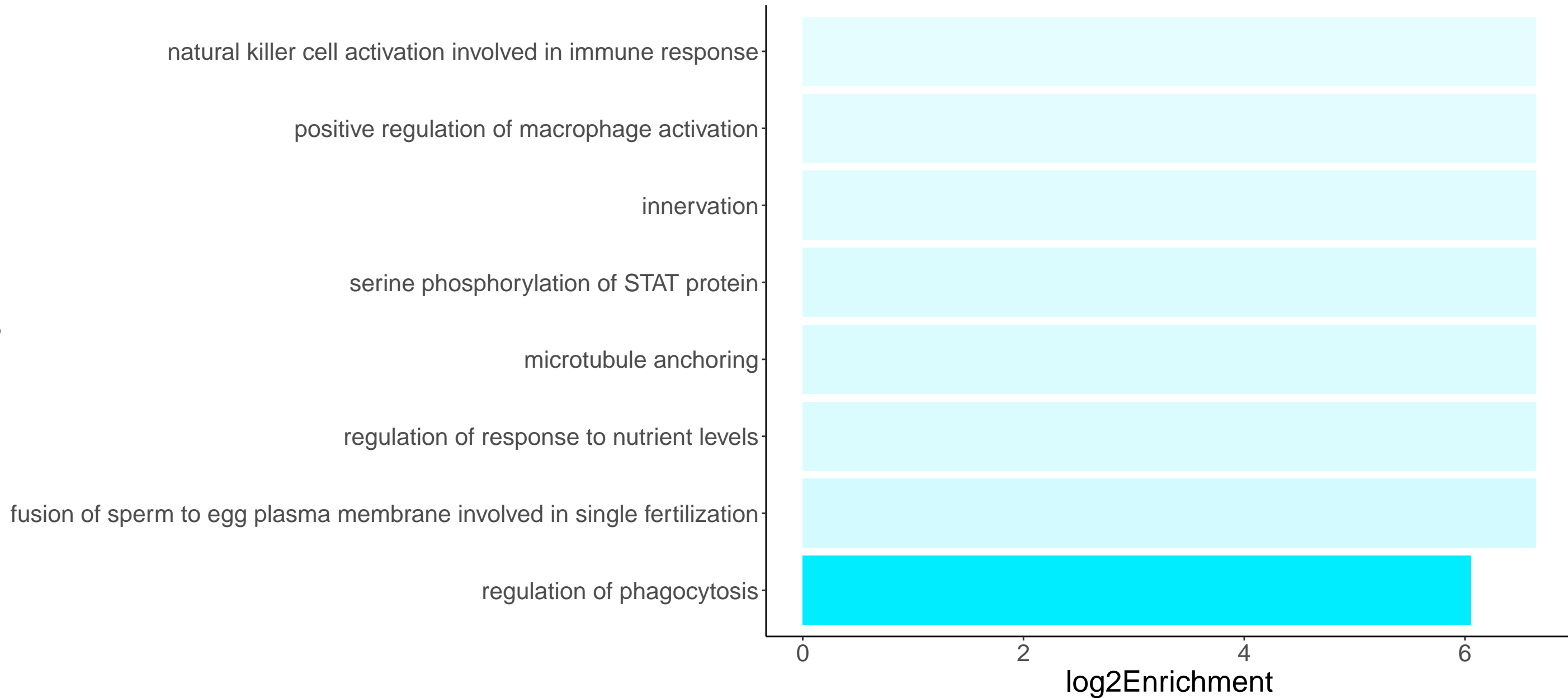
Term

log2Enrichment



## Re-clustered module 5.8 BP enrichment

Term



Re-clustered module 5.8 MF enrichment

Term

log2Enrichment

