

Without Cell Cycle | With AreaShape | All Genes Cluster 7 of 40 tRNA aminoacylation for \_ protein translation transcription from RNA polymerase III promoter snoRNA processing -Biological Process rRNA processing -RNA splicing mRNA processing DNA-templated transcription, termination 0.05 0.00 0.10 0.15 Proportion

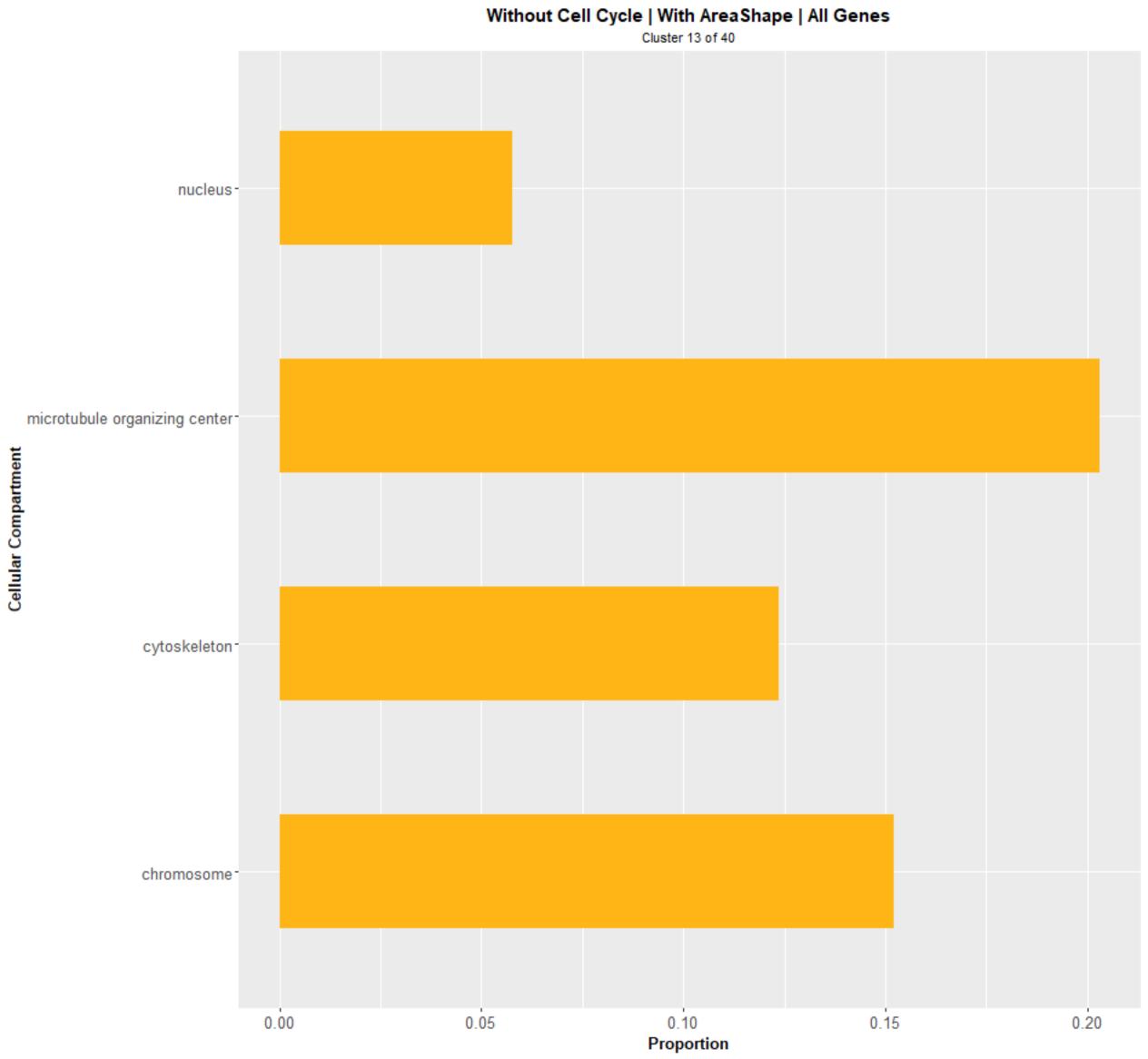
# Without Cell Cycle | With AreaShape | All Genes Cluster 8 of 40 Cellular Compartment 0.000 0.002 0.004 0.006 Proportion

# Without Cell Cycle | With AreaShape | All Genes Cluster 8 of 40 Biological Process A second or seco 0.02 0.01 0.00 0.03 Proportion

## Without Cell Cycle | With AreaShape | All Genes Cluster 11 of 40 nucleus-Cellular Compartment nucleolus-0.01 0.03 0.00 0.02 0.04 Proportion

#### Without Cell Cycle | With AreaShape | All Genes Cluster 11 of 40 transcription from RNA polymerase III promoter transcription from RNA polymerase II promoter transcription from RNA polymerase I promoter snoRNA processing rRNA processing ribosomal subunit export from nucleus ribosomal large subunit biogenesis proteolysis involved in cellular protein catabolicprocess nuclear transport mRNA processing -DNA-templated transcription, initiation DNA-templated transcription, \_ elongation 0.05 0.10 0.15 0.00

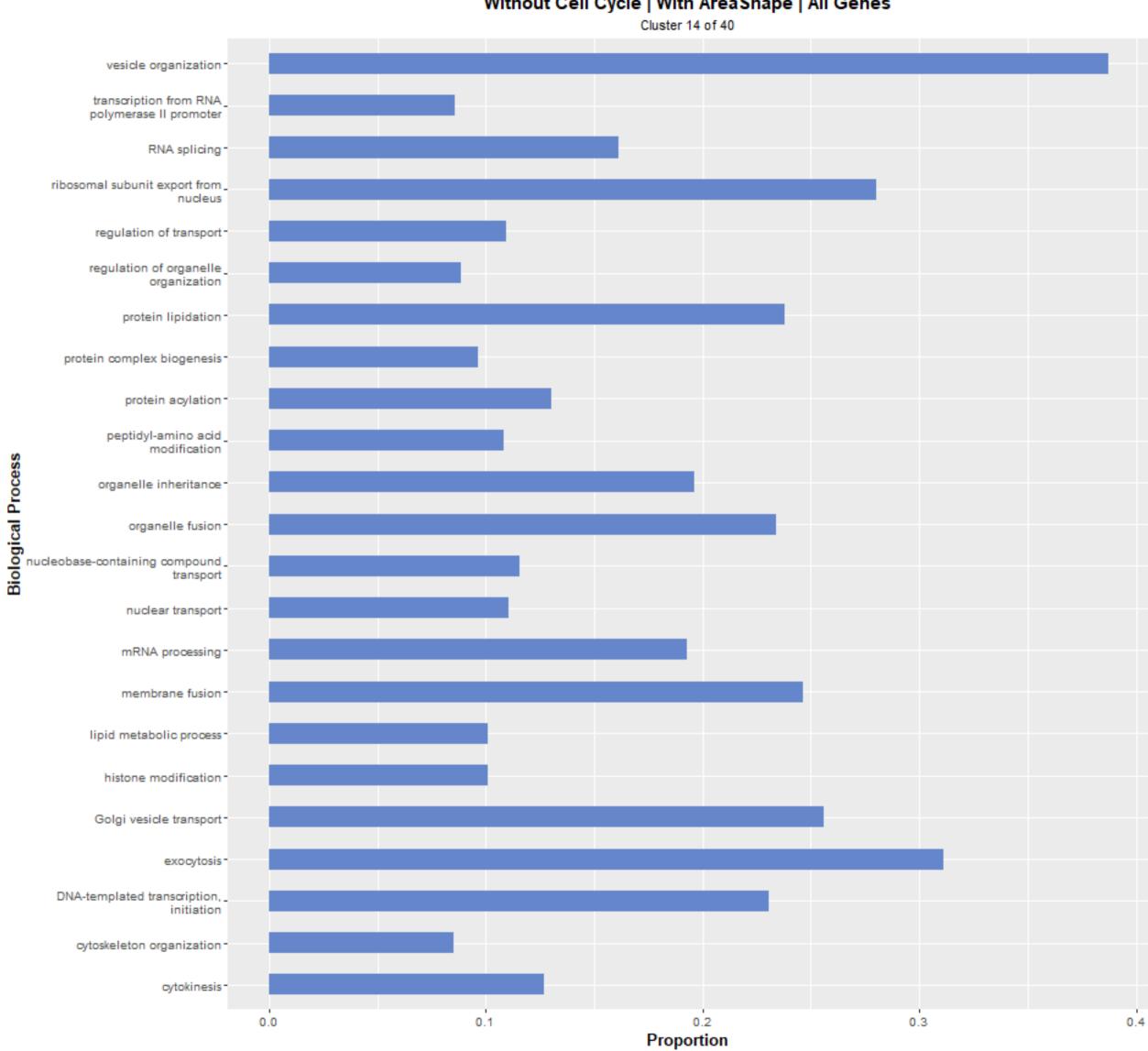
Proportion



#### Without Cell Cycle | With AreaShape | All Genes Cluster 13 of 40 RNA splicing regulation of protein\_ modification process regulation of organelle organization regulation of DNA metabolic\_ regulation of cell cycle proteolysis involved in cellular protein catabolicprocess protein modification by small\_ protein conjugation or removal protein complex biogenesis **Biological Process** organelle fission mRNA processing mitotic cell cycle-DNA replication -DNA repair DNA recombination -DNA-templated transcription, cytoskeleton organization chromosome segregation chromatin organization cellular response to DNA damage stimulus 0.05 0.10 0.15 0.20 0.00 Proportion

#### Without Cell Cycle | With AreaShape | All Genes Cluster 14 of 40 site of polarized growth nucleus membrane -Golgi apparatus endoplasmic reticulumendomembrane systemcytoskeletoncytoplasmic vesiclecellular budcell cortex-0.05 0.10 0.00 Proportion

# Without Cell Cycle | With AreaShape | All Genes Cluster 14 of 40



## Without Cell Cycle | With AreaShape | All Genes Cluster 17 of 40 nucleus-Cellular Compartment nucleolus-0.075 0.000 0.025 0.050 0.100 Proportion

#### Without Cell Cycle | With AreaShape | All Genes Cluster 17 of 40 rRNA processing RNA modification ribosomal subunit export from nucleus Biological Process ribosomal small subunit\_ biogenesis ribosomal large subunit\_ biogenesis organelle fission -DNA replication -0.05 0.00 0.10 0.15 Proportion

## Without Cell Cycle | With AreaShape | All Genes Cluster 18 of 40 Cellular Compartment 0.012 0.006 0.000 0.003 0.009 Proportion

## Without Cell Cycle | With AreaShape | All Genes Cluster 19 of 40 protein alkylation -Biological Process wordilication modification histone modification -0.10 0.00 0.05 0.15 Proportion

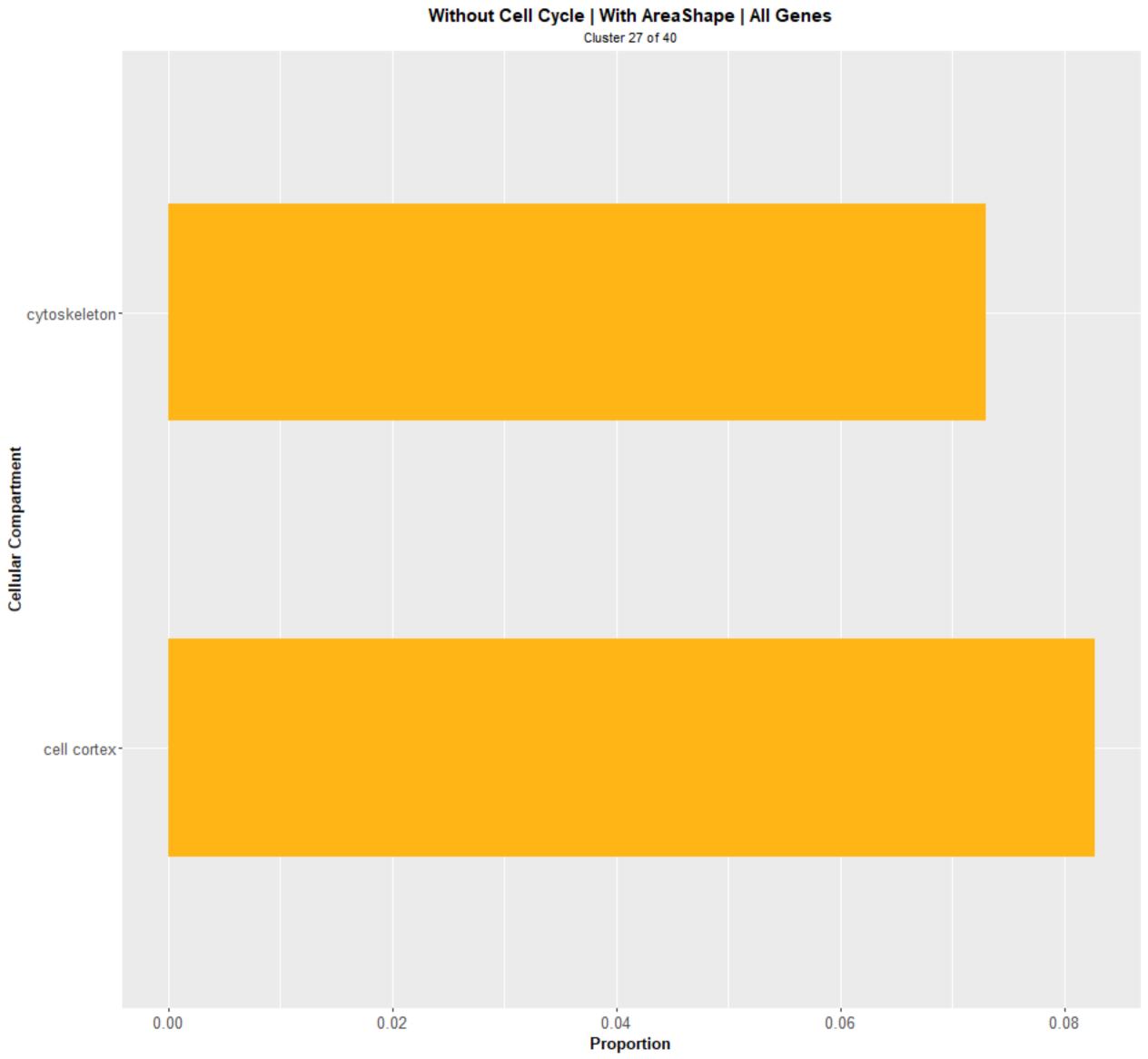
## Without Cell Cycle | With AreaShape | All Genes Cluster 20 of 40 mitochondrion-Cellular Compartment mitochondrial envelope-0.02 0.04 0.06 0.00 Proportion

#### Without Cell Cycle | With AreaShape | All Genes Cluster 20 of 40 transcription from RNA polymerase I promoter nucleobase-containing small\_ molecule metabolic process mitochondrion organization -Biological Process mitochondrial translation ion transport cofactor metabolic process 0.00 0.05 0.10 0.15 Proportion

Without Cell Cycle | With AreaShape | All Genes Cluster 22 of 40 protein acylation -Biological Process cytoplasmic translation -0.03 0.06 0.09 0.00 Proportion

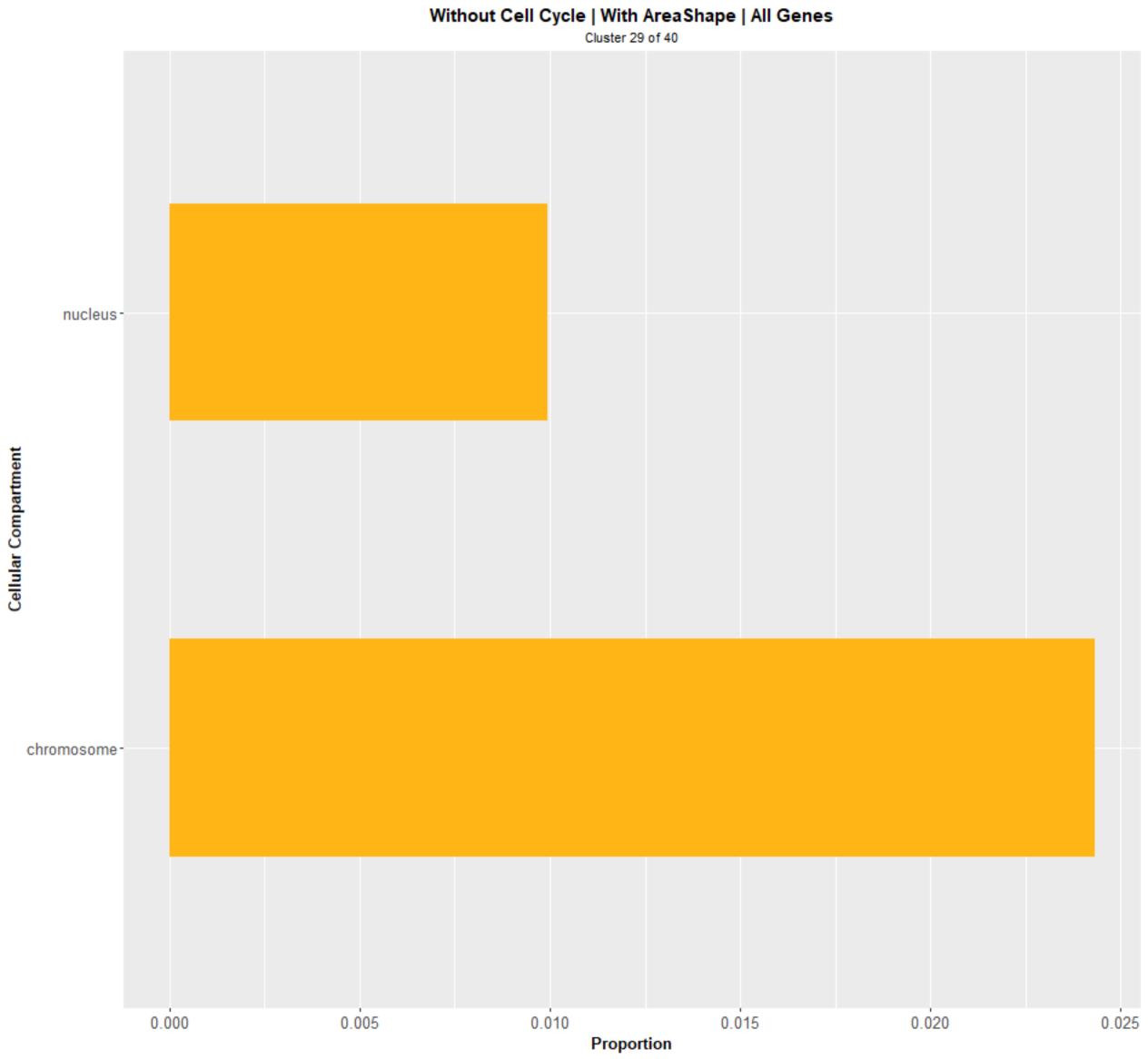
Without Cell Cycle | With AreaShape | All Genes Cluster 23 of 40 regulation of transport Biological Process nuclear transport cytokinesis -0.050 0.000 0.025 0.075 0.100 Proportion

Without Cell Cycle | With AreaShape | All Genes Cluster 25 of 40 Biological Process 0.03 0.06 0.09 0.00 Proportion

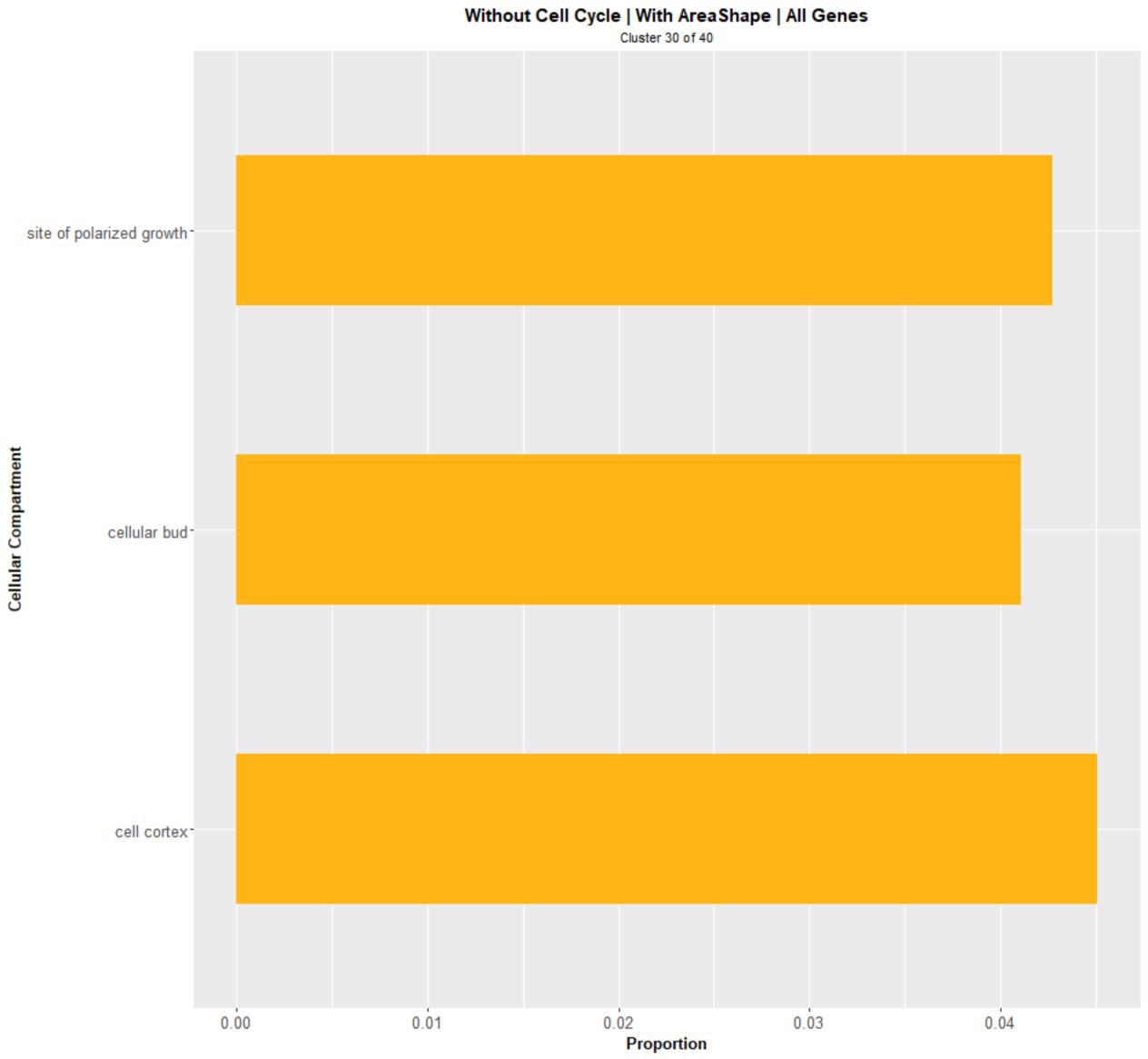


Without Cell Cycle | With AreaShape | All Genes Cluster 27 of 40 Biological Process

uncleobase-containing compound transport 0.050 Proportion 0.000 0.025 0.075



#### Without Cell Cycle | With AreaShape | All Genes Cluster 29 of 40 transposition telomere organization regulation of DNA metabolic\_ process organelle fission -Biological Process mitotic cell cycle -DNA replication -DNA repair DNA recombination chromosome segregation cellular response to DNA damage stimulus 0.00 0.05 0.10 0.15 Proportion



Without Cell Cycle | With AreaShape | All Genes Cluster 30 of 40 transcription from RNA polymerase II promoter signaling response to chemicalregulation of transport-Biological Process regulation of protein\_ modification process pseudohyphal growth protein phosphorylation invasive growth in response to \_ glucose limitation cytoskeleton organization chromatin organization 0.06 0.00 0.03 0.09 Proportion

Without Cell Cycle | With AreaShape | All Genes Cluster 33 of 40 Biological Process cytoskeleton organization -0.01 0.03 0.00 0.02 Proportion

## Without Cell Cycle | With AreaShape | All Genes Cluster 34 of 40 ribosome-Cellular Compartment nucleolus-0.01 0.02 0.00 Proportion

Without Cell Cycle | With AreaShape | All Genes Cluster 36 of 40 Biological Process-0.02 0.03 0.01 0.00 Proportion

### Without Cell Cycle | With AreaShape | All Genes Cluster 39 of 40 response to starvation -Biological Process cell wall organization or \_ biogenesis 0.00 0.01 0.02 0.03 0.04 0.05 Proportion