

**Table S11. KEGG enrichment analysis of genes located on the AC.**

| Term Name                                         | GeneHitsInSelectedSet | AllGenesInSelectedSet | GeneHitsInBackground round | AllGenesInBackground round | p-value  | enrichFactor | corrected p-value |
|---------------------------------------------------|-----------------------|-----------------------|----------------------------|----------------------------|----------|--------------|-------------------|
| 03036 Chromosome and associated proteins          | 14                    | 23                    | 332                        | 3783                       | 4.87E-10 | 6.936        | 1.07E-08          |
| 00520 Amino sugar and nucleotide sugar metabolism | 2                     | 23                    | 50                         | 3783                       | 0.04     | 6.579        | 0.27              |
| 01003 Glycosyltransferases                        | 2                     | 23                    | 55                         | 3783                       | 0.04     | 5.981        | 0.24              |
| 04148 Efferocytosis                               | 1                     | 23                    | 23                         | 3783                       | 0.13     | 7.151        | 0.48              |
| 01002 Peptidases and inhibitors                   | 2                     | 23                    | 160                        | 3783                       | 0.25     | 2.056        | 0.62              |
| 01001 Protein kinases                             | 1                     | 23                    | 66                         | 3783                       | 0.33     | 2.492        | 0.73              |
| 04138 Autophagy - yeast                           | 1                     | 23                    | 73                         | 3783                       | 0.36     | 2.253        | 0.72              |
| 00190 Oxidative phosphorylation                   | 1                     | 23                    | 83                         | 3783                       | 0.40     | 1.982        | 0.73              |
| 03040 Spliceosome                                 | 1                     | 23                    | 91                         | 3783                       | 0.43     | 1.807        | 0.73              |
| 04121 Ubiquitin system                            | 1                     | 23                    | 160                        | 3783                       | 0.63     | 1.028        | 0.87              |
| 03041 Spliceosome                                 | 1                     | 23                    | 164                        | 3783                       | 0.64     | 1.003        | 0.83              |
| 04131 Membrane trafficking                        | 2                     | 23                    | 394                        | 3783                       | 0.71     | 0.835        | 0.87              |