

**Table S5. Significant Gene Ontology terms associated with genes in group 1.**

| <i>P</i> -value <sup>a</sup> | GO ID, name                                            |
|------------------------------|--------------------------------------------------------|
| 3.6E-03                      | GO:0016567, protein ubiquitination                     |
| 6.5E-03                      | GO:0016311, Dephosphorylation                          |
| 7.9E-03                      | GO:0006397, mRNA processing                            |
| 1.2E-02                      | GO:0006396, RNA processing                             |
| 3.5E-02                      | GO:0009968, negative regulation of signal transduction |
| 4.9E-02                      | GO:0022402, cell cycle process                         |

<sup>a</sup>Based on Fisher's exact test.