

**Table 2** The top ten GO enrichment and KEGG pathways analyzed by DAVID for DEGs in Module 2

| Description                                                                                          | <i>P</i> Value        | Count | Gene symbol                                                    |
|------------------------------------------------------------------------------------------------------|-----------------------|-------|----------------------------------------------------------------|
| GO:0060333~interferon-gamma-mediated signaling pathway                                               | 6.49303820514092E-11  | 6     | IRF1, PTAFR, FCGR1B, GBP1,HLA-DPA1, HLA-DQB1                   |
| GO:0006955~immune response                                                                           | 0.0000251732757518859 | 5     | SLC11A1, PTAFR, FCGR1B, HLA-DPA1, HLA-DQB1                     |
| GO:0030669~clathrin-coated endocytic vesicle membrane                                                | 0.000176012601228426  | 3     | FCGR1B, HLA-DPA1, HLA-DQB1                                     |
| hsa05150:Staphylococcus aureus infection                                                             | 0.000595800992949486  | 3     | PTAFR, HLA-DPA1, HLA-DQB1                                      |
| GO:0005886~plasma membrane                                                                           | 0.000698701344115271  | 8     | SLC11A1, PTAFR, SIRPA, FCGR1B, GBP1, LAIR1, HLA-DPA1, HLA-DQB1 |
| GO:0016021~integral component of membrane                                                            | 0.00298140157035724   | 8     | SLC11A1, PTAFR, SIRPA, MCEMP1,FCGR1B, LAIR1,HLA-DPA1, HLA-DQB1 |
| GO:0010008~endosome membrane                                                                         | 0.00352091549154771   | 3     | SLC11A1, HLA-DPA1, HLA-DQB1                                    |
| GO:0032395~MHC class II receptor activity                                                            | 0.00708798026595678   | 2     | HLA-DPA1, HLA-DQB1                                             |
| GO:0002504~antigen processing and presentation of peptide or polysaccharide antigen via MHC class II | 0.0080721315672983    | 2     | HLA-DPA1, HLA-DQB1                                             |
| GO:0042613~MHC class II protein complex                                                              | 0.0108148398269406    | 2     | HLA-DPA1, HLA-DQB1                                             |