| Protein                                                                 | Gene            | Position PhoshoTyr | % Inhibition of phosphoTyr with VPS34 IN1 |
|------------------------------------------------------------------------|-----------------|--------------------|------------------------------------------|
| Signal transducer and activator of transcription                      | STATSA, STATSB  | 694, 664, 182, 699 | 82                                       |
| Tyrosine-protein kinase HCK                                            | HCK             | 188, 209           | 66,5                                     |
| Phosphatidylinositol(3,4,5)-triphosphate 5-phosphatase 2 SHIP2         | INPP1           | 921, 745, 987      | 62,3                                     |
| Calcium-binding protein 39                                             | CAB39           | 323,325            | 58,1                                     |
| ATP synthase subunit, mitochondrial                                    | ATPSH           | 126, 150           | 54,5                                     |
| Protein jagged-1                                                       | JAG1            | 980, 1139          | 54,1                                     |
| Mitogen-activated protein kinase 1                                     | MAPK1           | 187                | 51,7                                     |
| Annexin A2, Putative annexin A2-like, Annexin                          | ANXA2, ANXAP2   | 24, 42, 52         | 50,9                                     |
| Actin                                                                  | ACTB, ACTG1     | 198, 189           | 48,9                                     |
| Tyrosine-protein kinase Lyn                                            | LYN             | 295, 316           | 46,8                                     |
| Mitogen-activated protein kinase 3                                     | MAPK3           | 90, 204            | 45,9                                     |

Supplemental Table 4