| **fostamatinib** | **lasofoxifene** | **zinc** | **L-glutamic acid** | **acute myeloid leukemia** |
| --- | --- | --- | --- | --- |
| protein phosphorylation | ESR1 (2) | CPN1 (979) | GRIN1 (48) | positive regulation of transcription by RNA polymerase II |
| protein autophosphorylation | ESR2 (3) | FN1 (6) | GRIK2 (63) | positive regulation of transcription, DNA-templated |
| intracellular signal transduction | CNR2 (1) | APOA1 (16) | GOT2 (70) | negative regulation of transcription, DNA-templated |
| positive regulation of transcription by RNA polymerase II | GNA15 (4) | C3 (40) | SLC1A1 (55) | negative regulation of transcription by RNA polymerase II |
| peptidyl-tyrosine phosphorylation | positive regulation of cytosolic calcium ion concentration | IGHM (163) | GRIA2 (190) | MYC |
| positive regulation of transcription, DNA-templated | negative regulation of transcription by RNA polymerase II | APP (2) | SLC25A22 (171) | RUNX3 |
| phosphorylation | positive regulation of transcription, DNA-templated | CLU (12) | GOT1 (29) | STAT3 |
| HSP90AA1 (15) | positive regulation of DNA binding transcription factor activity | C5 (209) | GRIN2A (151) | IDH1 |
| negative regulation of apoptotic process | positive regulation of transcription by RNA polymerase II | TP53 (4) | EARS2 (156) | ANXA2 |
| peptidyl-serine phosphorylation | transcription by RNA polymerase II | C8A (533) | SLC1A3 (51) | GATA1 |
| cellular protein modification process | regulation of cytosolic calcium ion concentration | complement activation | GLUD2 (145) | NPM1 |
| negative regulation of transcription by RNA polymerase II | cellular response to estradiol stimulus | A2M (47) | GLUD1 (100) | SPI1 |
| EGFR (12) | positive regulation of calcium ion transport into cytosol | APLP1 (116) | SLC1A2 (131) | PSIP1 |
| regulation of RNA splicing | negative regulation of gene expression | APOE (9) | calcium ion transmembrane import into cytosol | GATA2 |
| NEK1 (337) | calcium ion transport into cytosol | KNG1 (95) | GLS (180) | KRAS |
| negative regulation of transcription, DNA-templated | negative regulation of DNA binding transcription factor activity | peptide cross-linking | response to ethanol | NSD1 |
| positive regulation of gene expression | positive regulation of cytosolic calcium ion concentration involved in phospholipase C-activating G-protein coupled signaling pathway | C8G (179) | GRID2 (182) | GFI1 |
| LRRK2 (18) | positive regulation of RNA polymerase II transcriptional preinitiation complex assembly | C8B (907) | TAT (20) | HSPB1 |
| NTRK1 (10) | negative regulation of transcription, DNA-templated | positive regulation of transcription by RNA polymerase II | FPGS (107) | EHMT2 |
| APP (7) | negative regulation of production of miRNAs involved in gene silencing by miRNA | HRNR (166) | GRM7 (166) | RUNX1 |