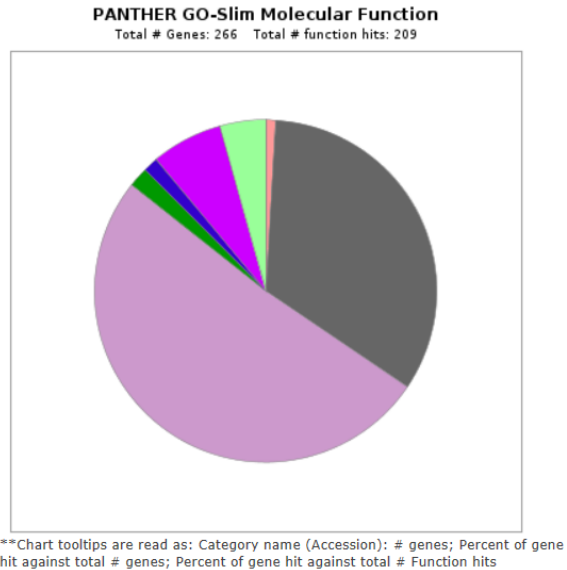


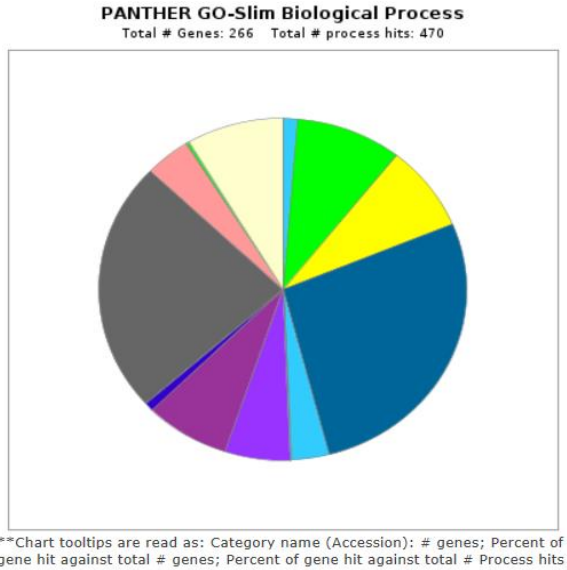
Fig. S1 GO analysis

A. Molecular Function (MF)



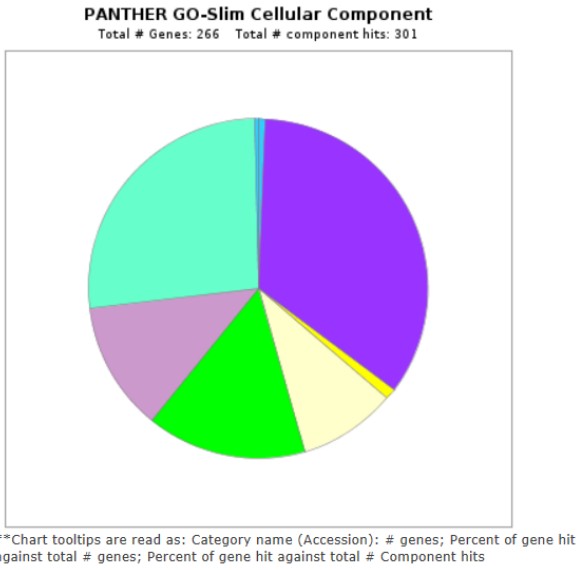
- antioxidant activity (GO:0016209)
- binding (GO:0005488)
- catalytic activity (GO:0003824)
- receptor activity (GO:0004872)
- signal transducer activity (GO:0004871)
- structural molecule activity (GO:0005198)
- transporter activity (GO:0005215)

B. Biological Process (BP)



- biological adhesion (GO:0022610)
- biological regulation (GO:0065007)
- cellular component organization or biogenesis (GO:0071840)
- cellular process (GO:0009987)
- developmental process (GO:0032502)
- growth (GO:0040007)
- immune system process (GO:0002376)
- localization (GO:0051179)
- locomotion (GO:0040011)
- metabolic process (GO:0008152)
- multicellular organismal process (GO:0032501)
- reproduction (GO:0000003)
- response to stimulus (GO:0050896)

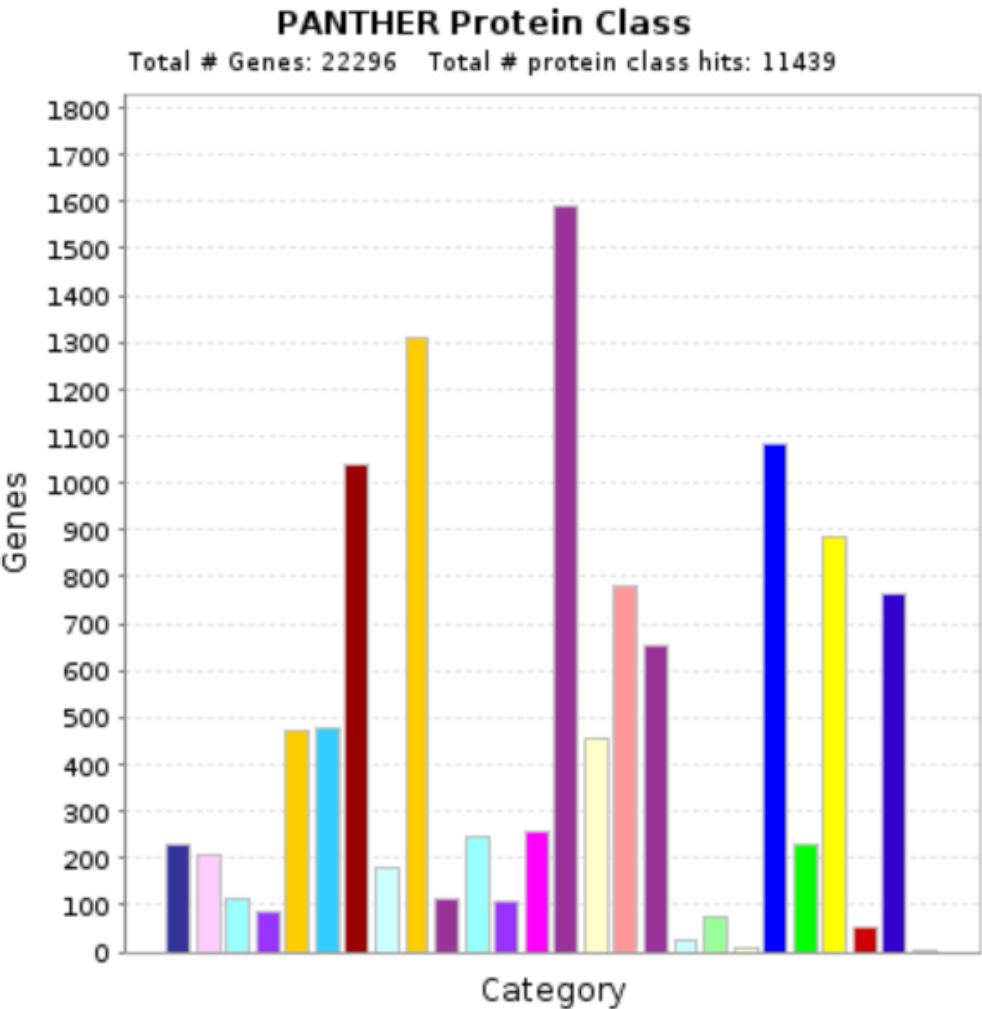
C. Cellular Component (CC)



- cell junction (GO:0030054)
- cell part (GO:0044464)
- extracellular matrix (GO:0031012)
- extracellular region (GO:0005576)
- macromolecular complex (GO:0032991)
- membrane (GO:0016020)
- organelle (GO:0043226)
- synapse (GO:0045202)

Fig. S2 GO analysis

A. The whole mouse protein class

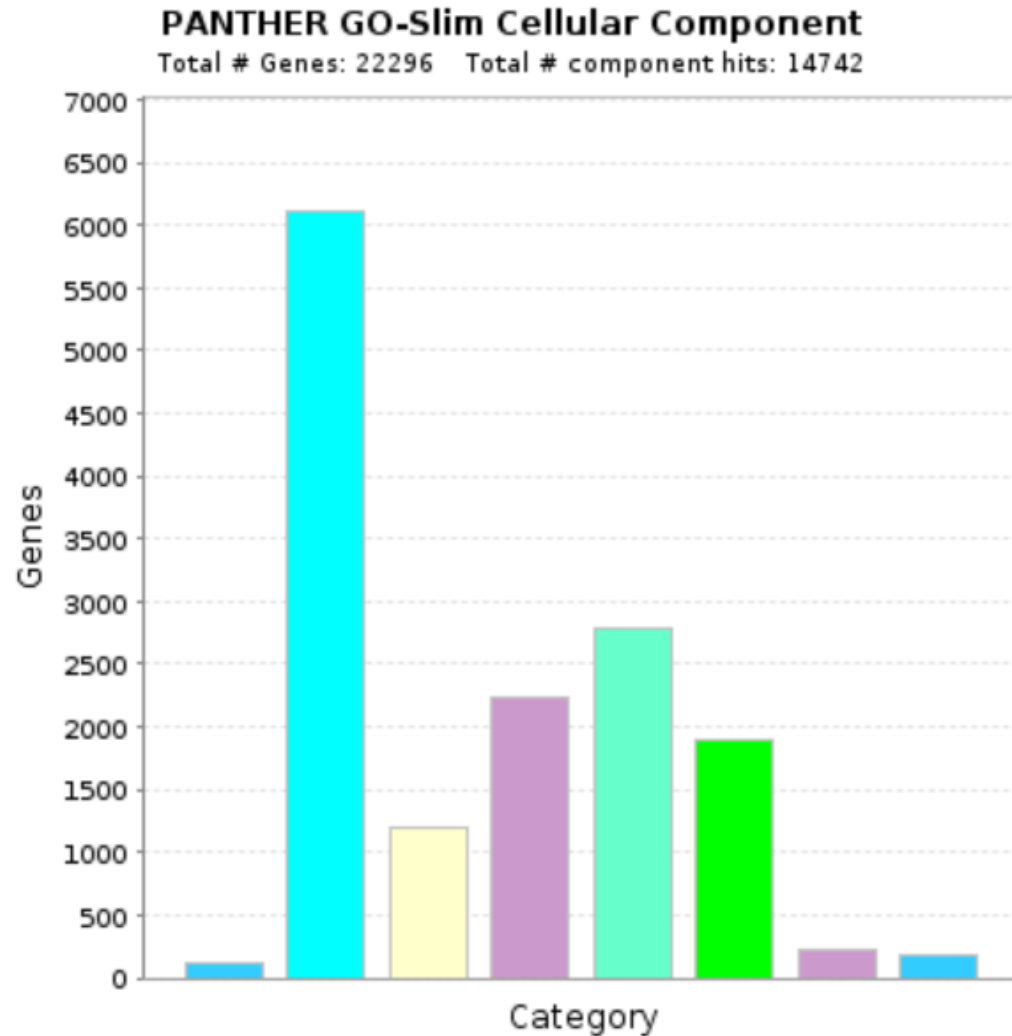


**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Protein Class hits

Click to get gene list for a category:

- [calcium-binding protein \(PC00060\)](#)
- [cell adhesion molecule \(PC00069\)](#)
- [cell junction protein \(PC00070\)](#)
- [chaperone \(PC00072\)](#)
- [cytoskeletal protein \(PC00085\)](#)
- [defense/immunity protein \(PC00090\)](#)
- [enzyme modulator \(PC00095\)](#)
- [extracellular matrix protein \(PC00102\)](#)
- [hydrolase \(PC00121\)](#)
- [isomerase \(PC00135\)](#)
- [ligase \(PC00142\)](#)
- [lyase \(PC00144\)](#)
- [membrane traffic protein \(PC00150\)](#)
- [nucleic acid binding \(PC00171\)](#)
- [oxidoreductase \(PC00176\)](#)
- [receptor \(PC00197\)](#)
- [signaling molecule \(PC00207\)](#)
- [storage protein \(PC00210\)](#)
- [structural protein \(PC00211\)](#)
- [surfactant \(PC00212\)](#)
- [transcription factor \(PC00218\)](#)
- [transfer/carrier protein \(PC00219\)](#)
- [transferase \(PC00220\)](#)
- [transmembrane receptor regulatory/adaptor protein \(PC00226\)](#)
- [transporter \(PC00227\)](#)
- [viral protein \(PC00237\)](#)

B. The whole mouse protein in cellular component

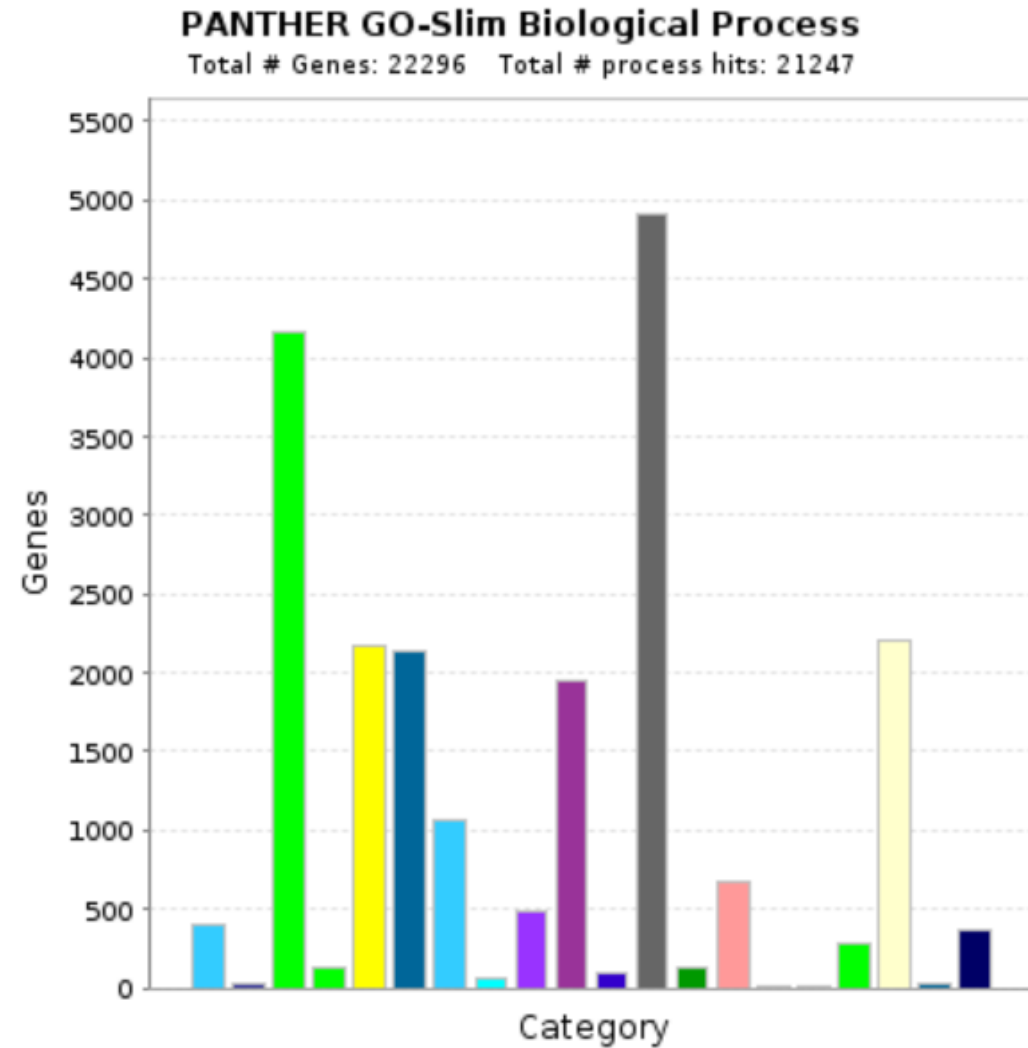


Click to get gene list for a category:

- [cell junction \(GO:0030054\)](#)
- [cell \(GO:0005623\)](#)
- [extracellular region \(GO:0005576\)](#)
- [membrane \(GO:0016020\)](#)
- [organelle \(GO:0043226\)](#)
- [protein-containing complex \(GO:0032991\)](#)
- [supramolecular complex \(GO:0099080\)](#)
- [synapse \(GO:0045202\)](#)

**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Component hits

C. The whole mouse protein in biological process

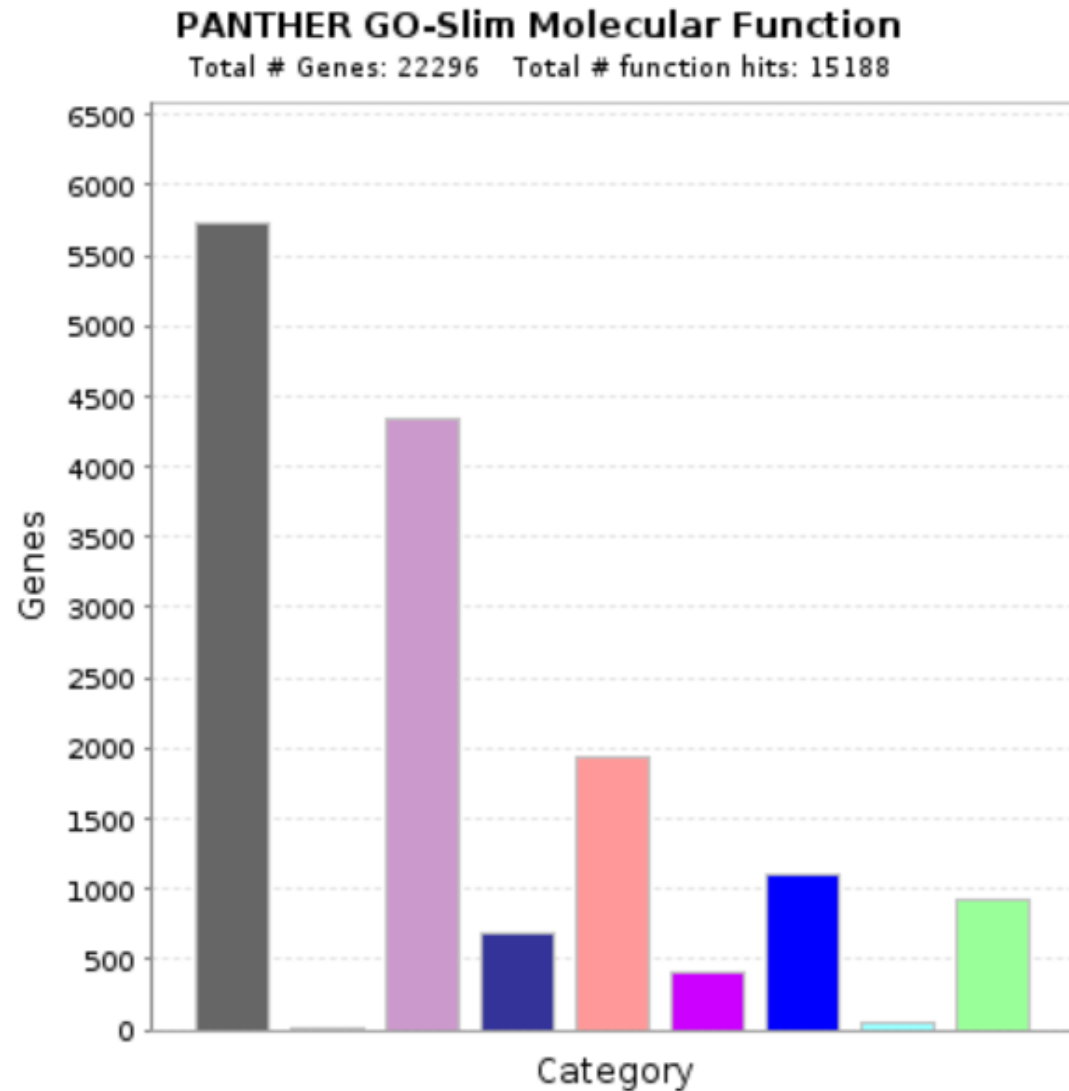


Click to get gene list for a category:

- [biological adhesion \(GO:0022610\)](#)
- [biological phase \(GO:0044848\)](#)
- [biological regulation \(GO:0065007\)](#)
- [cell proliferation \(GO:0008283\)](#)
- [cellular component organization or biogenesis \(GO:0071840\)](#)
- [cellular process \(GO:0009987\)](#)
- [developmental process \(GO:0032502\)](#)
- [growth \(GO:0040007\)](#)
- [immune system process \(GO:0002376\)](#)
- [localization \(GO:0051179\)](#)
- [locomotion \(GO:0040011\)](#)
- [metabolic process \(GO:0008152\)](#)
- [multi-organism process \(GO:0051704\)](#)
- [multicellular organismal process \(GO:0032501\)](#)
- [nitrogen utilization \(GO:0019740\)](#)
- [pigmentation \(GO:0043473\)](#)
- [reproduction \(GO:0000003\)](#)
- [response to stimulus \(GO:0050896\)](#)
- [rhythmic process \(GO:0048511\)](#)
- [signaling \(GO:0023052\)](#)

**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Process hits

D. The whole mouse protein in molecular function



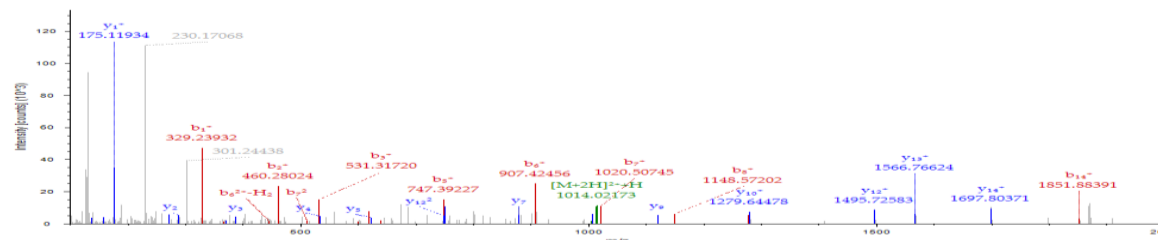
Click to get gene list for a category:

- [binding \(GO:0005488\)](#)
- [cargo receptor activity \(GO:0038024\)](#)
- [catalytic activity \(GO:0003824\)](#)
- [molecular function regulator \(GO:0098772\)](#)
- [molecular transducer activity \(GO:0060089\)](#)
- [structural molecule activity \(GO:0005198\)](#)
- [transcription regulator activity \(GO:0140110\)](#)
- [translation regulator activity \(GO:0045182\)](#)
- [transporter activity \(GO:0005215\)](#)

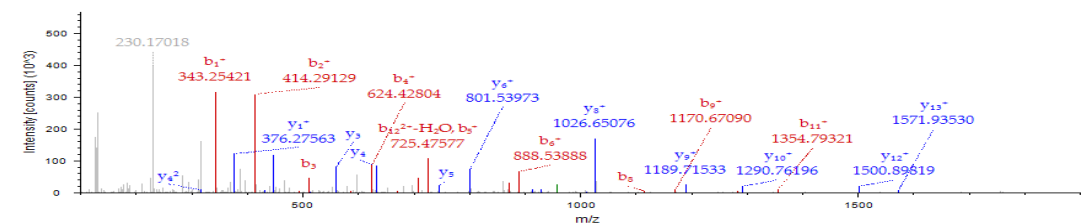
**Chart tooltips are read as: Category name (Accession): # genes; Percent of gene hit against total # genes; Percent of gene hit against total # Function hits

Fig. S3 The spectra of these DEPs in the leukocyte extravasation signaling pathway

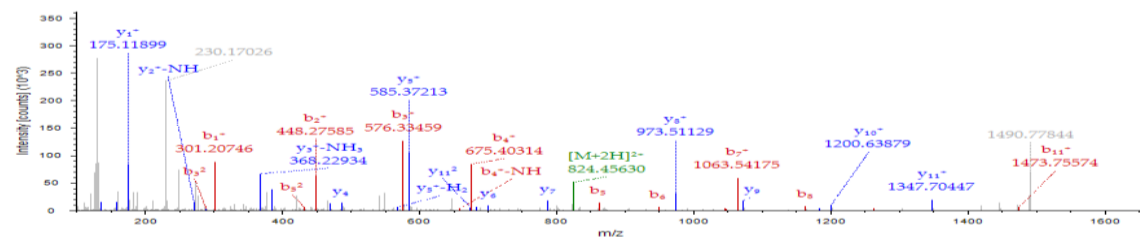
ITGB2 (integrin subunit beta 2) Accession:P11835



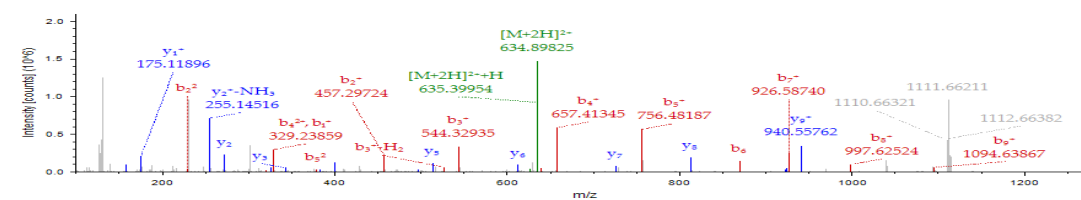
NCF2 (neutrophil cytosolic factor 2) Accession:O070145



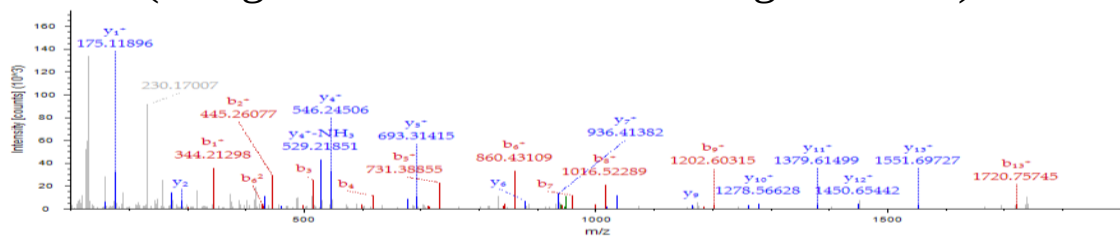
MMP12 (matrix metalloproteinase 12) Accession:P34960



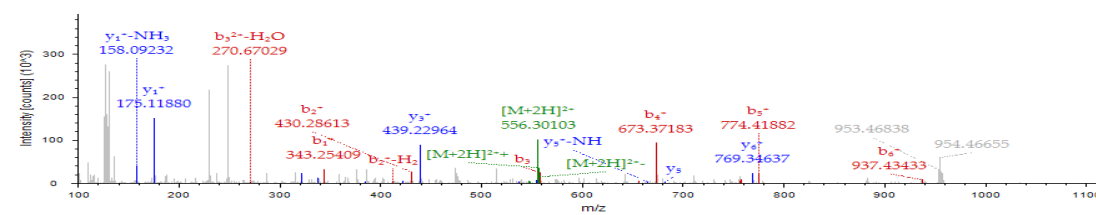
ITGAM (integrin subunit alpha M) Accession:P05555



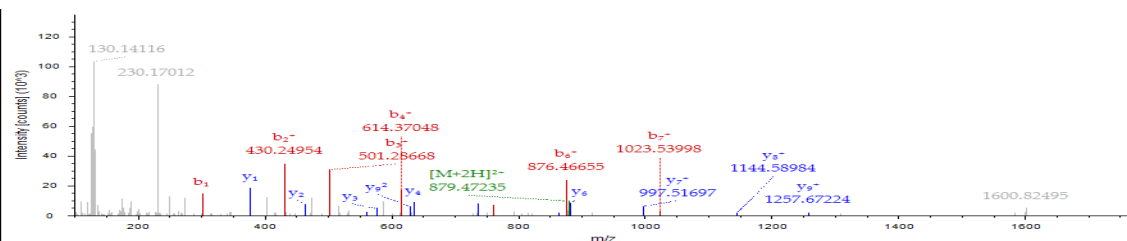
VAV1 (vav guanine nucleotide exchange factor 1) Accession:P27870



NCF1 (neutrophil cytosolic factor 1) Accession:Q09014



NCF4 (neutrophil cytosolic factor 4) Accession:P97369



RAC2 (Rac family small GTPase 2) Accession:Q05144

