The raw data was shown in the following table 1-3. The potential protein got from PharmMapper database was shown in table 1. Then the potential protein was imported to Reactome database and the protein pathway was collected, the result was shown in table 2. The component, protein and pathway were collected together before imported into the cytoscape software, the collected data was shown in table 3.

| Table 1: Data got from PharmMapper database |
|--------------------------------------------|
| component | protein |
| cleomiscosin A | P06276 |
| cleomiscosin A | P23141 |
| cleomiscosin A | P62937 |
| cleomiscosin A | P00918 |
| cleomiscosin A | P24941 |
| cleomiscosin A | P07339 |
| cleomiscosin A | P03372 |
| cleomiscosin A | Q15078 |
| cleomiscosin A | P00915 |
| cleomiscosin A | P04062 |
| cleomiscosin A | P11309 |
| cleomiscosin A | P00491 |
| cleomiscosin A | Q9NP99 |
| cleomiscosin A | O14965 |
| cleomiscosin A | Q16539 |
| cleomiscosin A | Q92731 |
| cleomiscosin A | Q07343 |
| cleomiscosin A | O14757 |
| cleomiscosin A | P45983 |
| cleomiscosin A | P08758 |
| myristic acid | P12643 |
| myristic acid | P28482 |
| myristic acid | P09211 |
| myristic acid | P15121 |
| myristic acid | P49137 |
| myristic acid | P10828 |
| myristic acid | P11309 |
| myristic acid | P27338 |
| myristic acid | P62937 |
| myristic acid | P02774 |
| myristic acid | P02768 |
| myristic acid | P52732 |
| myristic acid | P02652 |
| myristic acid | P00918 |
| myristic acid | P08842 |
| myristic acid | P02766 |
myristic acid  Q14994
myristic acid  P37231
myristic acid  P30044
succinic acid  P09012
succinic acid  P02743
succinic acid  P12931
succinic acid  Q15382
succinic acid  P18031
succinic acid  P15086
succinic acid  P07360
succinic acid  P02788
succinic acid  P03950
succinic acid  P07195
succinic acid  P23368
succinic acid  Q9P2W7
succinic acid  P35558
succinic acid  P35520
succinic acid  P12821
succinic acid  P09871
succinic acid  P00439
succinic acid  P14324
succinic acid  P50613
succinic acid  P12724
xanthosine    Q9BW91
xanthosine    P37173
xanthosine    P04062
xanthosine    O14965
xanthosine    Q13126
xanthosine    P00533
xanthosine    P24941
xanthosine    Q07343
xanthosine    P00915
xanthosine    Q12884
xanthosine    O14757
xanthosine    Q05315
xanthosine    P04745
xanthosine    P18075
xanthosine    P03950
xanthosine    P00491
xanthosine    P29218
xanthosine    Q99933
xanthosine    P19367
xanthosine    P17707
Sitostenone   P52895
| protein                          | pathway                                      |
|---------------------------------|----------------------------------------------|
| P37231;P10828;Q92731;P03372;P10275;P06401;P08235 | Nuclear Receptor transcription pathway        |
| Q16539;P28482;P45983            | Activation of the AP-1 family of transcription factors |
| Q16539;P28482;P45983;P49137     | MAPK targets/ Nuclear events mediated by MAP kinases |
| Q16539;P12931;P49137           | MAPK events                                   |
| Q16539;P10828;P28482;P50613;P12643;P12931;P10275;P37231;Q92731;P24941;P45452;P03372;P06401;P08235;O14757;O14965;Q15078 | Generic Transcription Pathway                  |
| P28482;P12643;P45452;P03372;P12931;P10275 | Transcriptional regulation by RUNX2           |
| Q16539;P12931;P49137           | Signalling to RAS                              |
| Q16539;P10828;P28482;P50613;P12643;P12931;P10275;P37231;Q92731;P24941;P45452;P03372;P06401;P08235;O14757;O14965;Q15078 | RNA Polymerase II Transcription               |
| Q16539;P24941;O14757;Q15078;O14965 | Regulation of TP53 Activity through Phosphorylation |
| Gene IDs | Function |
|---------|----------|
| O15382;P52895;P00491;P35558;Q9BW91;P14061;P07195;P04062;P02768;P17707;P02766;P49137;P09211;P08842;Q13126;P23141;P35520;Q9P2W7;P14324;P19367;P00918;P37231;P00915;P15121;P06276;P29218;P02774;P27338;P02652 | Metabolism |
| Q16539;P28482;P49137 | Nuclear Events (kinase and transcription factor activation) |
| P28482;P12931;P10275 | RUNX2 regulates osteoblast differentiation |
| P52895;P15121;P14061;P02768;P14324;P02774 | Metabolism of steroids |
| Q16539;P28482;P45983;P49137;P00915;P00918 | MAP kinase activation in TLR cascade |
| P28482;P12931;P10275 | Erythrocytes take up oxygen and release carbon dioxide |
| Q16539;P12931;P49137 | RUNX2 regulates bone development |
| Q16539;P10828;P28482;P50613;P12643;P12931;P10275;P37231;Q92731;P24941;P45452;P03372;P06401;P08235;O14757;O14965;Q15078 | Signalling to ERKs |
| Q16539;P28482;P45983;P49137;P04745 | Gene expression (Transcription) |
| Q16539;P45983 | Interleukin-17 signaling |
| Q16539;P28482;P12931;P49137;P00915;P062937 | Digestion of dietary carbohydrate |
| Q16539;P45983 | Gene and protein expression by JAK-STAT signaling after Interleukin-12 stimulation |
| Q16539;P28482;P45983;P49137 | DSCAM interactions |
| Q16539;P28482;P12931;P49137 | NGF signalling via TRKA from the plasma membrane |
| P00915;P00918 | Reversible hydration of carbon dioxide |
| P00915;P00918 | O2/CO2 exchange in erythrocytes |
| P00915;P00918 | Erythrocytes take up carbon dioxide and release oxygen |
| Q16539;P28482;P24941;P45983;P49137;P09211;P10275;P06401;P08235 | Cellular responses to stress |
| Q16539;P28482;P45983;P49137 | MyD88 cascade initiated on plasma membrane |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 10 (TLR10) Cascade |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 5 (TLR5) Cascade |
| Q16539;P28482;P45983;P49137 | TRAF6 mediated induction of NFkB and MAP kinases upon TLR7/8 or 9 activation |
| P08758;Q16539;P62937;P28482;P18031;P02768;P12931 | Platelet activation, signaling and aggregation |
| Q16539;P28482;P45983;P49137 | Oxidative Stress Induced Senescence |
| Q16539;P28482;P45983;P49137 | MyD88 dependent cascade initiated on |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 7/8 (TLR7/8) Cascade |
|----------------------------|----------------------------------------|
| Q16539;P28482;P45983;P49137 | MyD88:Mal cascade initiated on plasma membrane |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor TLR6:TLR2 Cascade |
| P28482;P12931               | Spry regulation of FGF signaling |
| Q16539;P45983;P12931        | Netrin-1 signaling |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 9 (TLR9) Cascade |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 3 (TLR3) Cascade |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor TLR1:TLR2 Cascade |
| Q16539;P28482;P45983;P49137 | Toll Like Receptor 2 (TLR2) Cascade |
| Q16539;P28482;P45983;P49137 | TRIF(TICAM1)-mediated TLR4 signaling |
| Q16539;P28482;P45983;P49137 | MyD88-independent TLR4 cascade |
| P19367                      | Defective HK1 causes hexokinase deficiency (HK deficiency) |
| P15086;P12821               | Metabolism of Angiotensinogen to Angiotensins |
| Q16539;P24941;O14757;Q15078;O14965 | Regulation of TP53 Activity |
| Q16539;P28482;P18031;P45983;P03372;P49137;P12931;O14757;P06401 | Signaling by Receptor Tyrosine Kinases |
| Q16539;P28482;P24941;P45983;P49137 | Cellular Senescence |
| P10275;P08235;P06401        | HSP90 chaperone cycle for steroid hormone receptors (SHR) |
| Q13126;P00915;P62937        | Interleukin-12 family signaling |
Table 3 Data imported to cytoscape

| component-protein   | protein-pathway |
|---------------------|-----------------|
| cleomiscosin A      | P06276          |
| cleomiscosin A      | P23141          |
| cleomiscosin A      | P62937          |
| cleomiscosin A      | P00918          |
| cleomiscosin A      | P24941          |
| cleomiscosin A      | P07339          |
| cleomiscosin A      | P03372          |
| cleomiscosin A      | Q15078          |
| cleomiscosin A      | P00915          |
| cleomiscosin A      | P04062          |
| cleomiscosin A      | P11309          |
| cleomiscosin A      | P00491          |
| cleomiscosin A      | Q9NP99          |
| cleomiscosin A      | O14965          |
| cleomiscosin A      | Q16539          |
| cleomiscosin A      | Q92731          |
| cleomiscosin A      | Q07343          |
| cleomiscosin A      | O14757          |
| cleomiscosin A      | P45983          |
| cleomiscosin A      | P08758          |
| myristic acid       | P12643          |
| myristic acid       | P28482          |
| myristic acid       | P09211          |
| myristic acid       | P15121          |
| myristic acid       | P49137          |
| myristic acid       | P10828          |
| myristic acid       | P11309          |
| myristic acid       | P27338          |
| myristic acid       | P62937          |
| myristic acid       | P02774          |
| myristic acid       | P02768          |
| myristic acid       | P52732          |
| myristic acid       | P02652          |
| myristic acid       | P00918          |
| myristic acid       | P08842          |
| myristic acid       | P02766          |
| myristic acid       | Q14994          |
| myristic acid       | P37231          |
| myristic acid       | P30044          |
| succinic acid       | P09012          |
| succinic acid       | P02743          |
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
succinic acid
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
xanthosine
Sitostenone
Sitostenone
Sitostenone
Sitostenone
Sitostenone
Sitostenone
Sitostenone
| Sitostenone | P02774 |
|-------------|--------|
| Sitostenone | P11309 |
| Sitostenone | P02768 |
| Sitostenone | P28482 |
| Sitostenone | P45452 |
| Sitostenone | P10828 |
| Sitostenone | P52732 |
| Sitostenone | P00918 |
| Sitostenone | P14061 |
| Sitostenone | P02652 |
| Sitostenone | P08235 |
| Sitostenone | P06401 |
| Sitostenone | P10275 |
| Sitostenone | P02766 |
| P37231      | Pw1    |
| P10828      | Pw1    |
| Q92731      | Pw1    |
| P03372      | Pw1    |
| P10275      | Pw1    |
| P06401      | Pw1    |
| P08235      | Pw1    |
| Q16539      | Pw2    |
| P28482      | Pw2    |
| P45983      | Pw2    |
| Q16539      | Pw3    |
| P28482      | Pw3    |
| P45983      | Pw3    |
| P49137      | Pw3    |
| Q16539      | Pw4    |
| P12931      | Pw4    |
| P49137      | Pw4    |
| Q16539      | Pw5    |
| P10828      | Pw5    |
| P28482      | Pw5    |
| P50613      | Pw5    |
| P12643      | Pw5    |
| P12931      | Pw5    |
| P10275      | Pw5    |
| P37231      | Pw5    |
| Q92731      | Pw5    |
| P24941      | Pw5    |
| P45452      | Pw5    |
| P03372      | Pw5    |
| P06401      | Pw5    |
| P08235 | Pw5  |
|--------|------|
| O14757 | Pw5  |
| O14965 | Pw5  |
| Q15078 | Pw5  |
| P28482 | Pw6  |
| P12643 | Pw6  |
| P45452 | Pw6  |
| P03372 | Pw6  |
| P12931 | Pw6  |
| P10275 | Pw6  |
| Q16539 | Pw7  |
| P12931 | Pw7  |
| P49137 | Pw7  |
| Q16539 | Pw8  |
| P10828 | Pw8  |
| P28482 | Pw8  |
| P50613 | Pw8  |
| P12643 | Pw8  |
| P12931 | Pw8  |
| P10275 | Pw8  |
| P37231 | Pw8  |
| Q92731 | Pw8  |
| P24941 | Pw8  |
| P45452 | Pw8  |
| P03372 | Pw8  |
| P06401 | Pw8  |
| P08235 | Pw8  |
| O14757 | Pw8  |
| O14965 | Pw8  |
| Q15078 | Pw8  |
| Q16539 | Pw9  |
| P24941 | Pw9  |
| O14757 | Pw9  |
| Q15078 | Pw9  |
| O14965 | Pw9  |
| O15382 | Pw10 |
| P52895 | Pw10 |
| P00491 | Pw10 |
| P35558 | Pw10 |
| Q9BW91 | Pw10 |
| P14061 | Pw10 |
| P07195 | Pw10 |
| P04062 | Pw10 |
| P02768 | Pw10 |
| Code       | Value   |
|------------|---------|
| P17707     | Pw10    |
| P02766     | Pw10    |
| P49137     | Pw10    |
| P09211     | Pw10    |
| P08842     | Pw10    |
| Q13126     | Pw10    |
| P23141     | Pw10    |
| P35520     | Pw10    |
| Q9P2W7     | Pw10    |
| P14324     | Pw10    |
| P19367     | Pw10    |
| P00918     | Pw10    |
| P37231     | Pw10    |
| P00915     | Pw10    |
| P15121     | Pw10    |
| P06276     | Pw10    |
| P29218     | Pw10    |
| P02774     | Pw10    |
| P27338     | Pw10    |
| P02652     | Pw10    |
| Q16539     | Pw11    |
| P28482     | Pw11    |
| P49137     | Pw11    |
| P28482     | Pw12    |
| P12931     | Pw12    |
| P10275     | Pw12    |
| P52895     | Pw13    |
| P15121     | Pw13    |
| P14061     | Pw13    |
| P02768     | Pw13    |
| P14324     | Pw13    |
| P02774     | Pw13    |
| Q16539     | Pw14    |
| P28482     | Pw14    |
| P45983     | Pw14    |
| P49137     | Pw14    |
| P00915     | Pw15    |
| P00918     | Pw15    |
| P28482     | Pw16    |
| P12931     | Pw16    |
| P10275     | Pw16    |
| Q16539     | Pw17    |
| P12931     | Pw17    |
| P49137     | Pw17    |
| ID    | Property |
|-------|----------|
| P12931| Pw49     |
| O14757| Pw49     |
| P06401| Pw49     |
| Q16539| Pw50     |
| P28482| Pw50     |
| P24941| Pw50     |
| P45983| Pw50     |
| P49137| Pw50     |
| P10275| Pw51     |
| P08235| Pw51     |
| P06401| Pw51     |
| Q13126| Pw52     |
| P00915| Pw52     |
| P62937| Pw52     |