- upregulated in Manf<sup>96</sup> mutant
- downregulated in Manf<sup>96</sup> mutant
- differential expression in Manf mutants

**LYSOSOME**

![Diagram of lysosomal processes and proteins]

- Lysosomal acid hydrolases
  - proteases
  - glycosidases
  - sulfatases
  - lipases
  - nucleases
  - phosphatases
  - sphingomyelinases
- Other lysosomal enzymes and activities
  - import
  - export
- Lysosomal membrane proteins
  - major lysosomal membrane protein (LAMP)
  - minor lysosomal membrane protein

Additional File 9.