The diagram illustrates the distribution of gene functions among all genes and those required for resistance to vanillin. The functions are categorized into several groups:

- **Metabolism**
- **Energy**
- **Cell cycle and DNA processing**
- **Transcription**
- **Protein synthesis**
- **Protein fate**
- **Protein with binding function or cofactor requirement**
- **Regulation of metabolism and protein function**
- **Cellular transport, transport facilitation and transport routes**
- **Cellular communication/signal transduction mechanism**
- **Cell rescue, defense, and virulence**
- **Interaction with the environment**
- **Transposable elements, viral and plasmid proteins**
- **Cell fate**
- **Developments**
- **Biogenesis of cellular components**
- **Cell type differentiation**
- **Unclassified proteins**

The x-axis represents the percentage of genes, while the bars indicate the proportion of genes for each category. The y-axis lists the different functions.