SOD2\_human (NP\_000627.2) **VS** SOD2\_mouse (NP\_038699.2)

图形用户界面, 文本, 应用程序

描述已自动生成

SOD2\_human (NP\_000627.2) **VS** RandomSeq

图形用户界面, 文本, 应用程序

描述已自动生成

SOD2\_mouse (NP\_038699.2) **VS** RandomSeq文本

中度可信度描述已自动生成

From the data above, we know that the edit distance between SOD2\_human and SOD2\_mouse is 23, which is very small. This means there are few differences between these two sequences. And the alignment score is consistent with this conclusion. The alignment score of SOD2\_human and SOD2\_mouse is 1091, which is rather high. Therefore, during the evolution, I think the SOD2 proteins of human and mouse seem to become similar. Maybe after thousands of years, the SOD2 proteins of human and mouse will become identical.

While *Sequence of human SOD2 protein* and *Sequence of a mouse SOD2 protein* show highly consistency, the random sequence is far more different from the other two.