Summary and interpretation

For human and mouse:

The percentage of identical amino acids is 96.53979238754326%

The alignment score is 1490

For human and random:

The percentage of identical amino acids is 2.768166089965396%

The alignment score is -351

For mouse and random:

The percentage of identical amino acids is 3.114186851211076%

The alignment score is -348.

These results show that the DLX5 genes of humans and mice are very similar. The percentage of identical amino acids is 96%, which is a big value. However, when humans and mice were separately compared to randomly generated ones, the similarity was low. This indicates that the DLX5 gene is highly conserved in evolution and may play an important role in mammalian life activities.