﻿compare human seq1 with mouse seq2

%identity : 89.63963963963964 %

score : 1091

distance : 23

compare mouse seq2 with random seq3

%identity : 5.855855855855852 %

score : -250

distance : 209

compare random seq3 with human seq1

%identity : 5.405405405405405 %

score : -250

distance : 210

The score of sequence for human SOD2 protein (NP\_000627.2) and sequence of a mouse SOD2 protein (NP\_038699.2) is a huge positive number, which means the two are highly reliable. The relationship of the random sequence with the sequence for human or the sequence for mouse is low because of the negative score.