

Desired Attributes of Protein Function Description Model

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Attribute 1

For a given sequence set: Descriptions of GO terms that annotate the entire sequence set should be scored higher than terms that do not annotate the entire sequence set.

Attribute 2

Among terms that do annotate the whole set, the model should score more specific terms higher than less specific terms.

Attribute 3

Among the most specific terms that annotate the whole set, descriptions from all three branches of GO should be scored equally.