Learning more about RNAi sequences

Last Modified on 22/03/2023 4:19 pm EDT

Our advanced machine learning models can identify the use of RNAi reagents in genetic manipulation experiments and extract those sequences from the literature

These advances capture more custom products, allowing you to discover critical information on a broader range of RNAi reagents.

Not all scientific publications include a full product citation with vendor and catalog information for RNAi products used in the research, particularly when reagents are developed in-house. To address this, we trained our machine learning models to comb through the text in search of the RNAi sequences referenced in figures. The relative ease of generating bespoke RNAi reagents means that having the **sequence information is no less meaningful than a vendor catalog number**. This is a powerful and invaluable use of our machine learning models, allowing you to identify sequences that are likely to succeed in knockout and knockdown experiments with greater confidence.

Our technology is always improving at better understanding the different ways that scientists write about RNAi sequences, however, we recommend clicking out to the original publication when you find a sequence you like. This gives you the opportunity to learn if the sequence is for a siRNA, shRNA, or miRNA and to verify the sequence.

Following a *See Sequence Details* link takes you to a **sequence page** that aggregates the data we have, including the cell lines studied and other figures that used the sequence. See below for a brief demonstration of navigating the RNAi sequence info!