Differentiating between crRNA and sgRNA

Last Modified on 03/02/2022 5:45 pm EST

sgRNA is a combination of the targeting crRNA and scaffold tracrRNA into a single oligonucleotide

Successful CRISPR experiments involve the design and cooperation of numerous different reagents and considerations, like the gRNA, choice of <u>Cas Nuclease species</u>, sub-type, or <u>PAM sequence</u>. gRNA itself is comprised of two functional regions:

- CRISPR RNA (crRNA), which targets the gene of interest
- Trans activating CRISPR RNA (tracrRNA), which operates as a scaffold for binding Cas Nuclease and forming the ribonucleoprotein.

For convenience, scientists have created fusions of these two RNA elements into a single guide RNA (sgRNA).

Under **Product Type**, you can search for *gRNA* which includes sgRNA, crRNA, and sequences we've detected in the literature. Alternatively, you can select either subtype and exclude sequence-only data altogether.

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