

# I. デザイン済みcrRNA/sgRNA

2-I-1) ヒト・マウス・ラット用のデザイン済みcrRNAおよびsgRNAをご注文いただくには、ページ上部にあるウィンドウ(赤実線枠)に、以下の項目のいずれか一つを入力し、検索ボタン( 🔍 )をクリックしてください。

Ref Seq Accession (例: NM\_004985.4 )

Gene ID (例: 3845)

Gene Symbol (例: KRAS)

Catalog No. (例: CR-005069-01)



NM\_004985.4 🔍

下の画面は「 NM\_004985.4 」と入力して検索し、Categoryで「Genes」(赤点線枠)を選択した結果が表示された状態です(抜粋)。crRNA/sgRNAのリンク(青点線枠)から各製品リストのページに移動してください。

Category

Products (20)

**Genes (1)**

Show: 10

Filters Applied

No filters applied. Please choose below.

CLEAR ALL

Refine By

Species +

Product Category +

**FEATURED ITEM**

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More Info

| Species:     | Products:  | Alias:   |
|--------------|--|--|
| Homo sapiens | Cell Line Models<br>DNA / CRISPR<br>crRNA / sgRNA<br>shRNA<br>siRNA<br>Reference Standards | C-K-RAS, CFC2, K-RAS2A, K-RAS2B, K-RAS4A, K-RAS4B, KI-RAS, KRAS1, KRAS2, NS, NS3, RALD, RASK2, c-Ki-ras2 |

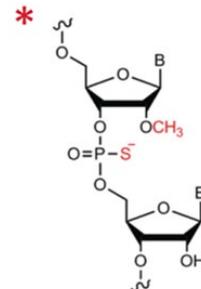
**KRAS | Human**

Gene Id 3845

This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma,...

## crRNA:tracrRNAの修飾によるヌクレアーゼ耐性

- Edit-R crRNAの5'末端とEdit-R tracrRNAの3'末端に修飾
- ヌクレアーゼ耐性をもつガイドRNAとして機能
- Cas9へのリクルートは問題なし
- RNA分解が遅延 - 特にElectroporationによる導入で編集効率UP



2-1-2)下の画面はヒトKRAS遺伝子に対するcrRNA/sgRNAを検索した結果が表示された状態です。「Go to Product Page」(青点線枠)をクリックすると、詳細な製品リストが表示されます。

## KRAS (HUMAN)

KRAS proto-oncogene, GTPase

Alias

C-K-RAS|CFC2|K-RAS2A|K-RAS2B|K-RAS4A|K-RAS4B|KI-RAS|KRAS1|KRAS2|NS3|RALD|RASK2|c-Ki-ras2

ENTREZGENE 3845

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### Product Category

- Cell Line Models
- cDNA / ORF
- crRNA / sgRNA
- shRNA
- siRNA
- Reference Standards

### Edit-R CRISPR (knockout) Human KRAS Lentiviral sgRNA

Guaranteed to edit the target gene of interest Algorithm-optimized to maximize the likelihood of functional protein knockout and reduce off-target editing Transduction-ready RNAs eliminate cloning and in vitro transcription steps Available as glycerol stocks and high-titer purified...

[Go to Product Page](#)

### Edit-R CRISPRa (activation) Human KRAS Lentiviral sgRNA

Genome-wide human and mouse lentiviral sgRNA reagents are specifically designed for CRISPRa. When used in conjunction with dCas9-VPR expression, you can leverage the power of the CRISPR-Cas9 system for activation of your favorite gene.

[Go to Product Page](#)

### Edit-R All-in-one Lentiviral (knockout) Human KRAS sgRNA

Guaranteed to edit the target gene of interest Algorithm-optimized to maximize the likelihood of functional protein knockout and minimize off-target editing Transduction-ready RNA's eliminate cloning and in vitro transcription steps Available as glycerol stocks and high-titer purified...

[Go to Product Page](#)

### Edit-R CRISPR (knockout) Human KRAS crRNA

Synthetic guide RNAs for efficient gene knockout & unparalleled specificity Guaranteed to edit the target gene of interest Designed to maximize the likelihood of functional protein knockout and minimize off-target editing Transfection-ready RNAs eliminate cloning and in vitro transcription...

[Go to Product Page](#)

### Edit-R CRISPRa (activation) Human KRAS crRNA

Genome-wide human and mouse synthetic crRNA reagents are specially designed for CRISPRa. In conjunction with dCas9-VPR expression, you can harness the power of the CRISPR-Cas9 system for activation of your favorite gene.

[Go to Product Page](#)

2-I-3)下の画面はEdit-R CRISPR (knockout) Human KRAS crRNAを検索した結果が表示された状態です。赤実線枠の項目を選択&クリックすることで、容量やアイテムを選択できます。「Add to Cart」ボタン(青点線枠)をクリックすると製品がショッピングカートに入ります。crRNAの使用に際しては tracrRNAが必須となります。「synthetic tracrRNA」(赤点線枠)からtracrRNAのページに進んでください。

## Edit-R predesigned crRNA

Synthetic guide RNAs for efficient gene knockout & unparalleled specificity

- Guaranteed to edit the target gene of interest
- Designed to maximize the likelihood of functional protein knockout and minimize off-target editing
- Transfection-ready RNAs eliminate cloning and *in vitro* transcription steps
- Chemically modified for improved nuclease resistance

**Reminder:** Synthetic crRNA must be paired with synthetic tracrRNA to form the full guide RNA complex that targets Cas9 editing.

**Note:** All predesigned guide RNA results are ranked in order of expected knockout performance

## KRAS (HUMAN)

### KRAS proto-oncogene, GTPase

#### Alias

C-K-RAS[CFC2]|K-RAS2A|K-RAS2B|K-RAS4A|K-RAS4B|K-RAS|KRAS1|KRAS2|NS3|RALD|RASK2|c-Ki-ras2

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#### Targets

PAM: AGG

Genomic Location: hg38:chr12:25225720-25225742:-

Summary: KRAS Human Hits 2/2 Accessions

### Select Product for: Edit-R CRISPR (knockout) Human KRAS crRNA

1. Size

2 nmol 5 nmol 10 nmol 20 nmol

2. Select one item

CM-005069-01-0002  CM-005069-02-0002  
 CM-005069-03-0002  CM-005069-04-0002  
 CM-005069-05-0002

¥17,000

Catalog ID: CM-005069-01-0002

- 1 + Add to Cart

2-I-4)下の画面はEdit-R tracrRNAの製品ページが表示された状態です(抜粋)。赤実線枠の項目を選択&クリックすることで、容量を選択できます。「Add to Cart」ボタン(青点線枠)をクリックすると製品がショッピングカートに入ります。

## Edit-R tracrRNA

Chemically synthesized trans-activating CRISPR RNA required for use with synthetic crRNA for fast and easy gene editing.

The synthetic crRNA:tracrRNA approach to CRISPR-Cas9 includes transfection-ready RNA components and enables fast assessment of multiple target sites per gene, for multiple genes.

### Select Product for: Edit-R tracrRNA

1. Size

5 nmol 20 nmol 50 nmol 200 nmol 500 nmol  
1 μmol 5X 1 μmol

¥18,000

Catalog ID: U-002005-05

- 1 + Add to Cart