

Dharmacon™ Edit-R™ HDR Donor Plasmid Kits

Product Description:

The Dharmacon™ Edit-R™ HDR donor plasmid kit contains all the DNA components to build and quality check a custom DNA donor plasmid to introduce a fluorescent tag or custom sequence to any genomic location when coupled with Edit-R HDR DNA donor plasmid homology arm (HA) custom primer pairs. Specifically, the EGFP and mKate2 kits come with the Edit-R HDR donor backbone, the appropriate donor plasmid insert, and the Edit-R HDR donor plasmid colony PCR primers specific to the backbone and insert. The Universal kit for custom inserts differs in that it lacks the insert specific colony PCR primers and the insert fragment. Reagents are supplied as dried pelleted oligos with enough material for ten (10) reactions, when used as directed.

The HA PCR primers are designed using the HDR Donor Designer to amplify HAs with lengths ranging from 500 to 1000 bp; additionally, the primers will have an adapter sequence appended, which is necessary for compatibility with the HDR donor plasmid backbone and mKate2. The [HDR Donor Designer](#) additionally designs these primers to introduce silent mutations to disrupt the intact CRISPR sequence to avoid unintentional cutting of gDNA previously edited to contain the fluorescent reporter.

Kit Contents:

| Cat. # | Description | Item # | Amount |
|-----------------|---|------------------|---------|
| UK-008100-01-10 | Edit-R HDR Plasmid Donor Kit - EGFP | | |
| | Edit-R HDR Plasmid Donor Backbone | U-008300-01-1200 | 1200 ng |
| | Edit-R HDR insert - EGFP | U-008100-01-250 | 250 ng |
| | Edit-R Colony PCR Primer EGFP Forward | U-008100-FB-05 | 5 nmol |
| | Edit-R Colony PCR Primer EGFP Reverse | U-008100-RA-05 | 5 nmol |
| | Edit-R Colony PCR Primer Backbone Forward | U-008300-FW-05 | 5 nmol |
| | Edit-R Colony PCR Primer Backbone Reverse | U-008300-RV-05 | 5 nmol |
| UK-008200-03-10 | Edit-R HDR Plasmid Donor Kit - mKate2 | | |
| | Edit-R HDR Plasmid Donor Backbone | U-008300-01-1200 | 1200 ng |
| | Edit-R HDR insert - mKate2 | U-008200-01-250 | 250 ng |
| | Edit-R Colony PCR Primer mKate2 Forward | U-008200-FB-05 | 5 nmol |
| | Edit-R Colony PCR Primer mKate2 Reverse | U-008200-RA-05 | 5 nmol |
| | Edit-R Colony PCR Primer Backbone Forward | U-008300-FW-05 | 5 nmol |
| | Edit-R Colony PCR Primer Backbone Reverse | U-008300-RV-05 | 5 nmol |
| UK-008300-01-10 | Edit-R HDR Plasmid Donor Kit - Universal | | |
| | Edit-R HDR Plasmid Donor Backbone | U-008300-01-1200 | 1200 ng |
| | Edit-R Colony PCR Primer Backbone Forward | U-008300-FW-05 | 5 nmol |
| | Edit-R Colony PCR Primer Backbone Reverse | U-008300-RV-05 | 5 nmol |

Shipping and Storage:

Store at -20° C. The Edit-R HDR Donor Plasmid Kit is shipped at ambient temperature and should be stored in a -20° C freezer.

Handling Precautions:

Oligonucleotides and purified DNA fragments are susceptible to enzymatic degradation by nucleases and to chemical degradation by extreme pH and temperature. We recommend wearing gloves and maintaining nuclease-free conditions when handling.

Related Products:

- Dharmacon™ DharmaFECT™ Duo Transfection Reagent is optimized for transfecting plasmid DNA and small RNA into a wide variety of cell lines. For more information, click [here](#).

Related Documents:

Go to gelifesciences.com/dharmacon to find:

- Edit-R HDR Plasmid Donor Kit Technical Manual
- Recommended Reading Lists
- Posters

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1.800.235.9880; 303.604.9499 if you have any questions.