



**Benefit from functional and specific targeting for high-confidence gene knockout results**

- All Dharmacon Edit-R guide RNAs are predesigned with our validated Edit-R algorithm—no time spent designing your own!

**Dharmacon<sup>TM</sup> Edit-R<sup>TM</sup>  
CRISPR-Cas9 screening  
libraries: robust, reliable,  
and reproducible gene  
knockout for effective  
loss-of-function studies**

**Harness the power of arrayed CRISPR screens for complex, multiparametric, or high-content phenotypes**

- Gain deeper insight into your biology with one-well-per-gene capability
- Easily stratify your hits with multiple data points per gene to focus your efforts on the most promising first—get to publication or the clinic faster!

**Simplify large screens with pooled lentiviral sgRNA libraries for highly multiplexed experiments**

- Delivery to almost any cell type, even those refractory to transfection, with high functional titers and generous volumes of purified, concentrated lentiviral particles
- Validated protocols and experimental guidelines support you from start to finish

## Edit-R crRNA arrayed libraries

Library	Genes	Library ID	Designs	Library ID
Edit-R—Apoptosis	446	GC-003900-xx		
Edit-R—Cell Cycle Regulation	169	GC-003200-xx	105	GC-013200-xx
Edit-R—Cytokine Receptors	110	GC-004000-xx	158	GC-014000-xx
Edit-R—Deubiquitinating Enzymes	98	GC-004700-xx	68	GC-014700-xx
Edit-R—DNA Damage Response	240	GC-006000-xx		
Edit-R—Drug Targets	3686	GC-004650-xx		
Edit-R—Druggable Genome	7995	GC-004600-xx		
Edit-R—Epigenetics	835	GC-006100-xx	729	GC-016100-xx
Edit-R—G Protein-coupled Receptors	384	GC-003600-xx	515	GC-013600-xx
Edit-R—Genome	18,700	GC-005000-xx		
Edit-R—Ion Channels	345	GC-003800-xx	340	GC-013800-xx
Edit-R—Membrane Trafficking	140	GC-005500-xx	113	GC-015500-xx
Edit-R—Nuclear Receptors	52	GC-003400-xx	46	GC-013400-xx
Edit-R—Phosphatases	247	GC-003700-xx	273	GC-013700-xx
Edit-R—Proteases	473	GC-005100-xx	540	GC-015100-xx
Edit-R—Protein Kinases	703	GC-003500-xx	715	GC-013500-xx
Edit-R—Transcription Factors	1529	GC-005800-xx	1440	GC-015800-xx
Edit-R—Tyrosine Kinases	85	GC-003100-xx	85	GC-013100-xx
Edit-R—Ubiquitin Enzymes	650	GC-006200-xx	591	GC-016200-xx

- Four unique crRNA designs per gene arrayed in 96- or 384-well plates
- Also available as customized cherry-pick libraries; simply upload your gene list and customize your plates

## Edit-R Lentiviral sgRNA arrayed and pooled libraries

Human				
Arrayed	# genes	Library ID		
Edit-R—Druggable Genome	7826	GSGH11761		
Edit-R - Drug Targets	3737	GSGH11848		
Edit-R—GPCR	381	GSGH11763		
Edit-R—Ion Channels	348	GSGH11764		
Edit-R—Phosphatases	253	GSGH11767		
Edit-R—Proteases	478	GSGH11768		
Edit-R—Protein Kinases	698	GSGH11769		
Edit-R—Transcription Factors	1507	GSGH11855		
Edit-R—Ubiquitin Conjugation	583	GSGH11772		

  

		Human		Mouse	
Pooled	# genes	Library ID	# genes	Library ID	
Edit-R—Whole Genome	18,525	VSGH11113	19,683	VSGM11135	
Edit-R—Druggable Genome	7359	VSGH11112	9827	VSGM11134	
Edit-R—GPCR	378	VSGH11106	498	VSGM11128	
Edit-R—Ion Channels	345	VSGH11108	340	VSGM11130	
Edit-R—Protein Kinases	700	VSGH11105	708	VSGM11127	
Edit-R—Phosphatases	247	VSGH11107	269	VSGM11129	
Edit-R—Proteases	473	VSGH11109	533	VSGM11131	
Edit-R—Ubiquitin Conjugation	564	VSGH11110	517	VSGM11132	

### Arrayed

- Up to four unique sgRNA designs per gene, arrayed in 96-well plates of *E. coli* glycerol stocks
- Plasmids can be isolated and delivered directly to cells or packaged into lentiviral particles for more difficult cell types
- Gene family collections; use individually or pool them to create custom lentiviral screening libraries

### Pooled

- Deep coverage with 5–10 sgRNAs per gene
- Validated experimental and bioinformatics analysis protocols to enable your success
- Can be combined with the promoter flexibility of Edit-R Lentiviral Cas9 Nuclease Reagents for robust editing

Actual gene count may vary slightly.

dharmacon  
.horizondiscovery.com

Orders can be placed through quotes only.  
North America: cs.dharmacon@horizondiscovery.com  
Europe: cs.dharmacon.eu@horizondiscovery.com

©2018 Horizon Discovery Group Company—All rights reserved. UK Registered Head Office: Building 8100, Cambridge Research Park, Cambridge, CB25 9TL, United Kingdom.

horizon™  
INSPIRED CELL SOLUTIONS