

## Product datasheet for **KN201206RB**

### Sigma1 receptor (SIGMAR1) Human Gene Knockout Kit (CRISPR)

#### Product data:

|               |   |
|---------------|---|
| Product Type: | Knockout Kits (CRISPR)  |
| Format:       | 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control   |
| Donor DNA:    | RFP-BSD   |
| Symbol:       | Sigma1 receptor   |
| Locus ID:     | 10280   |
| Components:   | <b>KN201206G1</b> , Sigma1 receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br><b>KN201206G2</b> , Sigma1 receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br><b>KN201206RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette.<br><b>GE100003</b> , scramble sequence in pCas-Guide vector   |
| RefSeq:       | <a href="#">NM_001282205</a> , <a href="#">NM_001282206</a> , <a href="#">NM_001282207</a> , <a href="#">NM_001282208</a> , <a href="#">NM_001282209</a> ,<br><a href="#">NM_005866</a> , <a href="#">NM_147157</a> , <a href="#">NM_147158</a> , <a href="#">NM_147159</a> , <a href="#">NM_147160</a> , <a href="#">NR_104108</a>   |
| UniProt ID:   | <a href="#">Q99720</a>  |
| Synonyms:     | ALS16; DSMA2; hSigmaR1; OPR1; SIG-1R; sigma1R; SR-BP; SR-BP1; SRBP  |
| Summary:      | This gene encodes a receptor protein that interacts with a variety of psychotomimetic drugs, including cocaine and amphetamines. The receptor is believed to play an important role in the cellular functions of various tissues associated with the endocrine, immune, and nervous systems. As indicated by its previous name, opioid receptor sigma 1 (OPR1), the product of this gene was erroneously thought to function as an opioid receptor; it is now thought to be a non-opioid receptor. Mutations in this gene has been associated with juvenile amyotrophic lateral sclerosis 16. Alternative splicing of this gene results in transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2013] |



[View online »](#)

## Product images:

