

## Product datasheet for **KN201206LP**

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

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	Sigma1 receptor
Locus ID:	10280
Components:	<b>KN201206G1</b> , Sigma1 receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN201206G2</b> , Sigma1 receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN201206LPD</b> , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
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> , <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; OPRS1; 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 (OPRS1), 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]



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## Product images:

