

## Product datasheet for **KN202872LP**

### MMP9 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:	MMP9
Locus ID:	4318
Components:	<p><b>KN202872G1</b>, MMP9 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN202872G2</b>, MMP9 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN202872LPD</b>, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<u><a href="#">NM_004994</a></u>
UniProt ID:	<u><a href="#">P14780</a></u>
Synonyms:	CLG4B; GELB; MANDP2; MMP-9
Summary:	<p>Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]</p>



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## Product images:

