

Product datasheet for **KN208007**

NADPH oxidase 4 (NOX4) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	NADPH oxidase 4
Locus ID:	50507
Components:	<p>KN208007G1, NADPH oxidase 4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCTGGCTCGCCAACGAAG</p> <p>KN208007G2, NADPH oxidase 4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCTAGCCCGCCATCCTACC</p> <p>KN208007D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	<p>NM_001143836, NM_001143837, NM_001291926, NM_001291927, NM_001291929, NM_001300995, NM_016931, NR_026571, NR_120406</p>
UniProt ID:	Q9NPH5
Synonyms:	KOX; KOX-1; RENOX
Summary:	<p>This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]</p>



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Product images:

