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Product datasheet for KN200313LP

IDH3A 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:	IDH3A
Locus ID:	3419
Components:	KN200313G1 , IDH3A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN200313G2 , IDH3A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN200313LPD , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. GE100003 , scramble sequence in pCas-Guide vector
RefSeq:	<u>NM 005530</u>
UniProt ID:	<u>P50213</u>
Synonyms:	H-IDH alpha; isocitrate dehydrogenase (NAD+) alpha chain; isocitrate dehydrogenase 3 (NAD+) a; isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial; isocitric dehydrogenase; NAD(H)-specific isocitrate dehydrogenase alpha subunit; NAD+-specific ICDH
Summary:	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2- oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. [provided by RefSeq, Jul 2008]



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Product images:



RFP, Luc, and mBFP will be under native gene promoter

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