

## Product datasheet for **KN202082BN**

### alpha 1 Antitrypsin (SERPINA1) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	alpha 1 Antitrypsin
Locus ID:	5265
Components:	<b>KN202082G1</b> , alpha 1 Antitrypsin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN202082G2</b> , alpha 1 Antitrypsin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN202082BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<a href="#">NM_000295</a> , <a href="#">NM_001002235</a> , <a href="#">NM_001002236</a> , <a href="#">NM_001127700</a> , <a href="#">NM_001127701</a> , <a href="#">NM_001127702</a> , <a href="#">NM_001127703</a> , <a href="#">NM_001127704</a> , <a href="#">NM_001127705</a> , <a href="#">NM_001127706</a> , <a href="#">NM_001127707</a>
UniProt ID:	<a href="#">P01009</a>
Synonyms:	A1A; A1AT; AAT; alpha1AT; PI; PI1; PRO2275
Summary:	The protein encoded by this gene is a serine protease inhibitor belonging to the serpin superfamily whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. This protein is produced in the liver, the bone marrow, by lymphocytic and monocytic cells in lymphoid tissue, and by the Paneth cells of the gut. Defects in this gene are associated with chronic obstructive pulmonary disease, emphysema, and chronic liver disease. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2020]



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## Product images:

