

Product datasheet for **KN202082LP**

alpha 1 Antitrypsin (SERPINA1) 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:	alpha 1 Antitrypsin
Locus ID:	5265
Components:	KN202082G1 , alpha 1 Antitrypsin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN202082G2 , alpha 1 Antitrypsin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN202082LPD , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. GE100003 , 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:	NM_000295 , NM_001002235 , NM_001002236 , NM_001127700 , NM_001127701 , NM_001127702 , NM_001127703 , NM_001127704 , NM_001127705 , NM_001127706 , NM_001127707
UniProt ID:	P01009
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]



[View online »](#)

Product images:

