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Product datasheet for KN208252

ADA2 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: ADA2

Locus ID: 51816

Components: **KN208252G1**, ADA2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCGTCATGAGCCTCTCAT
KN208252G2, ADA2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCATGCTGGGTGGGAATATC
KN208252D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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CATTCAGCTC CGGTTCCCAA CGATC

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.

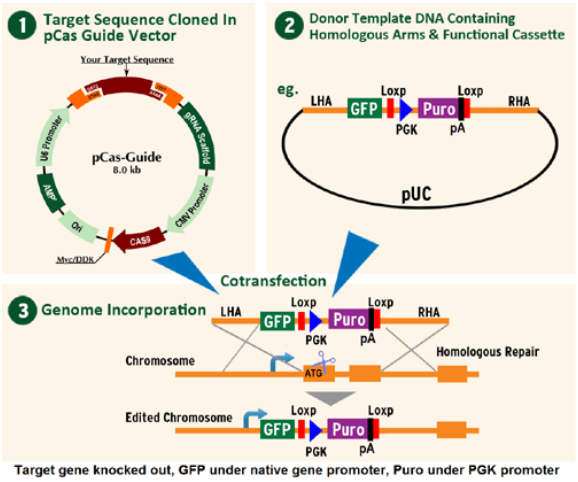
RefSeq: NM_001282225, NM_001282226, NM_001282227, NM_001282228, NM_001282229, NM_017424, NM_177405

UniProt ID: Q9NZK5

Synonyms: ADA2; ADGF; IDGFL; PAN; SNEDS

Summary: This gene encodes a member of a subfamily of the adenosine deaminase protein family. The encoded protein is one of two adenosine deaminases found in humans, which regulate levels of the signaling molecule, adenosine. The encoded protein is secreted from monocytes undergoing differentiation and may regulate cell proliferation and differentiation. This gene may be responsible for some of the phenotypic features associated with cat eye syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter