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Product datasheet for KN205583

ADO 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: ADO

Locus ID: 84890

Components: **KN205583G1**, ADO gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACATGGCCTCCTTGATCCAA
KN205583G2, ADO gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCAGGCTTGCCTCACCTTC
KN205583D, 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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TTCAGCTCCG GTTCCCAACG ATC

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.

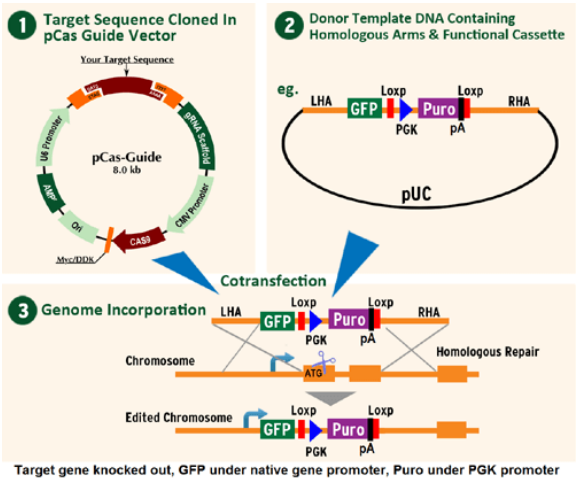
RefSeq: NM_032804

UniProt ID: Q96SZ5

Synonyms: C10orf22

Summary: Human thiol dioxygenases include cysteine dioxygenase (CDO; MIM 603943) and cysteamine (2-aminoethanethiol) dioxygenase (ADO; EC 1.13.11.19). CDO adds 2 oxygen atoms to free cysteine, whereas ADO adds 2 oxygen atoms to free cysteamine to form hypotaurine (Dominy et al., 2007 [PubMed 17581819]).[supplied by OMIM, Mar 2008]

Product images:



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