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Product datasheet for KN215270

ATP13A2 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: ATP13A2

Locus ID: 23400

Components: **KN215270G1**, ATP13A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCCAGTTGTCGTCACCCCT
KN215270G2, ATP13A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCAGGTGAGTGCGGAGTCC
KN215270D, 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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CGTCTCCGGG AGCTGCATGT GTCAGAGGTT TTCACCGTCA TCACCGAAAC GCGCGAGGCA GCTGCGGTAA
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GATAACCGTA TTACCGCCTT TGA

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.

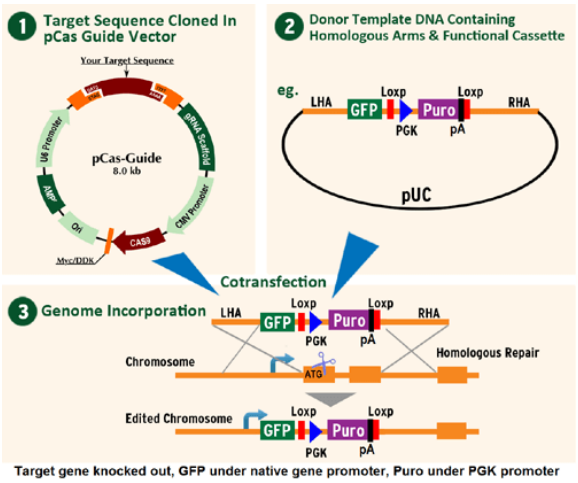
RefSeq: NM_001141973, NM_001141974, NM_022089

UniProt ID: Q9NQ11

Synonyms: CLN12; HSA9947; KRPPD; PARK9

Summary: This gene encodes a member of the P5 subfamily of ATPases which transports inorganic cations as well as other substrates. Mutations in this gene are associated with Kufor-Rakeb syndrome (KRS), also referred to as Parkinson disease 9. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2008]

Product images:



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