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Product datasheet for KN218497

Von Willebrand Factor (VWF) 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: Von Willebrand Factor

Locus ID: 7450

Components: **KN218497G1**, Von Willebrand Factor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGCAGCACCCCGGCAAATC
KN218497G2, Von Willebrand Factor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGCCCTTTTGTACCTACC
KN218497D, 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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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.

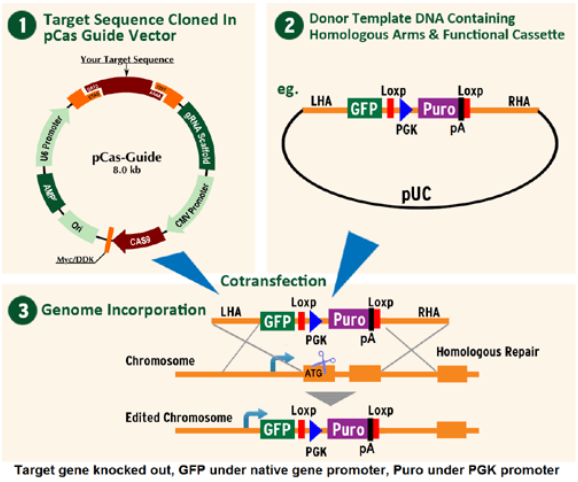
RefSeq: NM_000552

UniProt ID: P04275

Synonyms: F8VWF; VWD

Summary: This gene encodes a glycoprotein involved in hemostasis. The encoded preproprotein is proteolytically processed following assembly into large multimeric complexes. These complexes function in the adhesion of platelets to sites of vascular injury and the transport of various proteins in the blood. Mutations in this gene result in von Willebrand disease, an inherited bleeding disorder. An unprocessed pseudogene has been found on chromosome 22. [provided by RefSeq, Oct 2015]

Product images:



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