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Product datasheet for KN211157

ARA9 (AIP) 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: ARA9

Locus ID: 9049

Components: **KN211157G1**, ARA9 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TATCATCGCAAGACTCCGGG
KN211157G2, ARA9 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATCCAAAAACGTGTGATAC
KN211157D, 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.

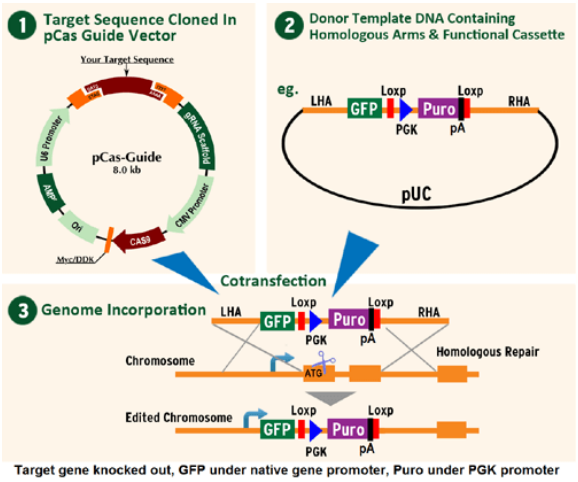
RefSeq: NM_001302959, NM_001302960, NM_003977

UniProt ID: O00170

Synonyms: ARA9; FKBP16; FKBP37; SMTPHN; XAP-2; XAP2

Summary: The protein encoded by this gene is a receptor for aryl hydrocarbons and a ligand-activated transcription factor. The encoded protein is found in the cytoplasm as part of a multiprotein complex, but upon binding of ligand is transported to the nucleus. This protein can regulate the expression of many xenobiotic metabolizing enzymes. Also, the encoded protein can bind specifically to and inhibit the activity of hepatitis B virus. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

Product images:



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