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Product datasheet for KN208745

DDR2 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: DDR2

Locus ID: 4921

Components: **KN208745G1**, DDR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGAGTAATAGCCATGTTACC
KN208745G2, DDR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAAAAGCTCAGGTTAATCC
KN208745D, 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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GCTACAGGCA TCGTGGTGTC ACGCTCGTCG TTTGGTATGG CTTCATTCAG CTCCGGTTCC CAACGATC

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.

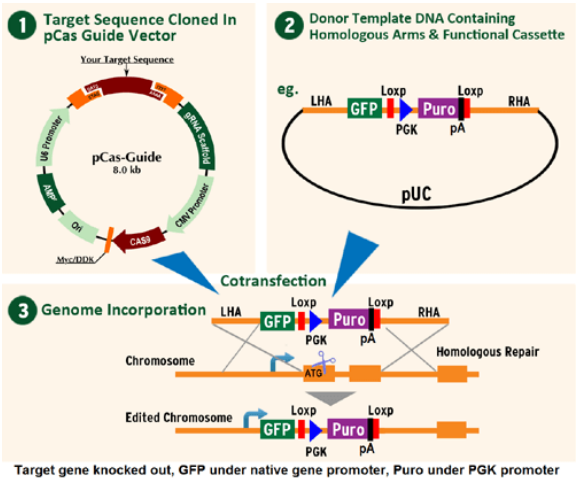
RefSeq: NM_001014796, NM_006182, NM_001354982, NM_001354983

UniProt ID: Q16832

Synonyms: MIG20a; NTRKR3; TKT; TYRO10

Summary: This gene encodes a member of the discoidin domain receptor subclass of the receptor tyrosine kinase (RTKs) protein family. RTKs play a key role in the communication of cells with their microenvironment. The encoded protein is a collagen-induced receptor that activates signal transduction pathways involved in cell adhesion, proliferation, and extracellular matrix remodeling. This protein is expressed in numerous cell types and may alos be involved in wound repair and regulate tumor growth and invasiveness. Mutations in this gene are the cause of short limb-hand type spondylometaepiphyseal dysplasia. [provided by RefSeq, Aug 2017]

Product images:



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