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Product datasheet for KN204874

RSK1 p90 (RPS6KA1) 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: RSK1 p90

Locus ID: 6195

Components: **KN204874G1**, RSK1 p90 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACTAGCTCCATGAGCGGCCA
KN204874G2, RSK1 p90 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTAGTGCCTCTGGACCCGG
KN204874D, 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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TGGGGGATCA TGTAACTCGC CTT

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.

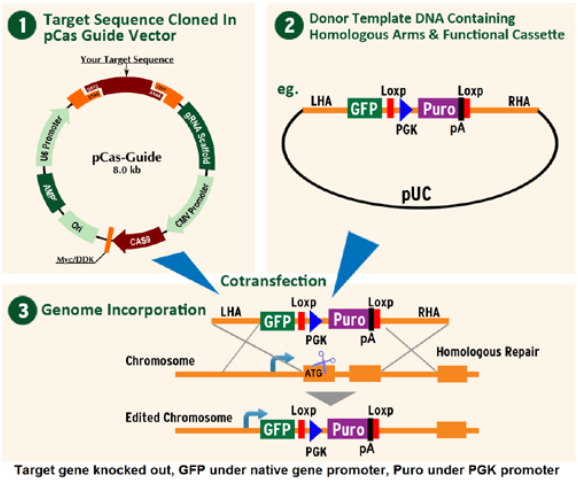
RefSeq: NM_001006665, NM_002953, NM_001330441

UniProt ID: Q15418

Synonyms: HU-1; MAPKAPK1A; p90Rsk; RSK; RSK1

Summary: This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



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