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Product datasheet for KN206461

RBM7 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: RBM7

Locus ID: 10179

Components: **KN206461G1**, RBM7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTTGAAACGAAAGTGACCG
KN206461G2, RBM7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGCTCGAAAAGGAGCTCCT
KN206461D, 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

GCTTGGCGGC TCCGGCCCCG GCCATCTGGT TCCCTTGGGC TCCGGCCGCC ACCATCCACT CGACGGCTCT
CGGCCCGAAC GCTTGGTCGC ACCGCCTGCC GAGGTCCTAG ATGAATCGCT TCAGGCCTGG AAACGAGGAA
GCCGTCTCCG GAGACCATCG CCAACGCTGA CGCCCGCGGT CTGAGGTCGC CATGGGAAGA GCGGTAGGCC
ACCCTGCTCC TCTGATCACC GGAGGACAGG GACACATTGT TCAGGGCCAT ATTCAAACAC TGCCCGCAGT
ACTTGCGTTA CGTCCCTTTG TGAAGGCAGG CCCTTCGCGG CTCCCCAGAT CAGTCCAGCC TGTGTCGGAC
CCGATGACTA AGCACACAGG AACCCATAAC TGAGCCTGCG GAAGAGCCAG AAGCCGCCTT GCCTTTAACG
AGGGGTATCC TGGCGAGCAT GCGCAGACCG TCCGCGCACG TCGTCGCCCG CTGAGAGCAA GCGCAACGGG
CGTTTTCGTT TGTGACGCCA GGGAGCGTGA GGACGTGGGG CTTCCGTGAA TGCGCAGTGG GTGCGTCGGC
CACGACCTTT TGGCCAGGTT AGGGAGGGGG CGACGCTGAG GCTGGGTTCG GCCCTTTGCC TTTCGTTTTC
CGTCTCGCCT AGGGCCTGGC CAGCGGCCAC CCCGTTTTCT TTTCGTAGCC GTCAGGGGAC CCGACGGGTG
GCTGTTTGGG GGTGAAAGGC GGGTCTGGGT TGCGAAACGC TCGCTGGGTG TCGCTTTCCT GGAAGATCTT
GGTTCGTTTA GGCCGAAAGT GACGACTAAA GGTGGTGGAG GGATCCTCGA TCAGGTTTCC CGTGGTAGAG
ATCCAGGGGT CCTTGGGAAC ACAGTGTGTG TGTAGGGTCT TCGTTGAGCA GTGCTTTTTC TTATCCTTCC
TGTTGTCATC TTCCCCTTAG GATAATTTGT CTTTGGTTTA TCTGACTGGG AACTTAATAT TTTAATTTAT
TTGTGTCTGT TTTCCCCTAA AGTTTGCTTA TCAAATTGCA GCATTATTAA AATATGTAAA ATAAAATGGT
TAAGTACTCC GTAGAAAAAC AGCATTTTAG TGTTGCTGTA TTAAAAAGTG TGAAAAATTC TGAGTATCCT
ATTCCCCCCA TCCCTATCCC CTAATAACTG GTATTGTTTG ATTAATCAAT ACAAAAGTCC GTTTTTAGTT
AAAGAAAATC

GE100003, scramble sequence in pCas-Guide vector

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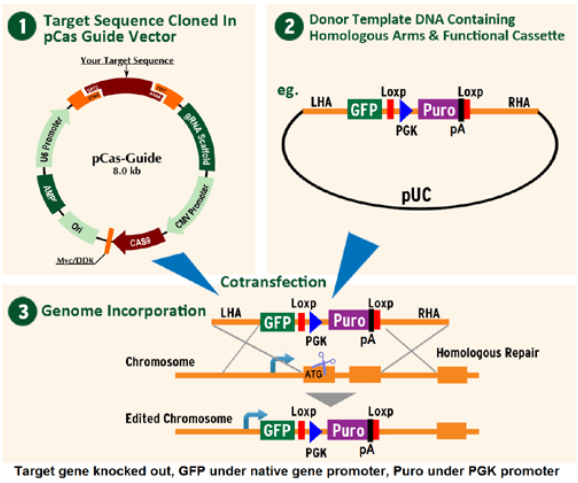
Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: NM_001286045, NM_001286046, NM_001286047, NM_001286048, NM_016090

UniProt ID: Q9Y580

Summary: Subunit of the trimeric nuclear exosome targeting (NEXT) complex, a complex that directs a subset of non-coding short-lived RNAs for exosomal degradation. The RNA exosome is fundamental for the degradation of RNA in eukaryotic nuclei. Substrate targeting is facilitated by its cofactor MTREX, which links to RNA-binding protein adapters (PubMed:27871484). Possible involved in germ cell RNA processing and meiosis (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



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