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Product datasheet for KN203610

TENT2 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: TENT2

Locus ID: 167153

Components: **KN203610G1**, TENT2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGAATAAACAGTAGGTGACA
KN203610G2, TENT2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATGATTTGGAGTGAAGGGT
KN203610D, 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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GATTCTGATT GCTTTGTACA ATTTTTCCCT ATTCCTGTGG AACATAGCCC TCTTTTATTG GAAGTCTTTT
ATATAAATTA TGTAGACTTT GAGGGGAATC TCAGAATCTT ATAAATTGTT AAGACAATAT AAAATCCATT
CCTTATTTGA TCAGACCTGT AAGATCCAAA TTCTAGGAAT CAGGATGTCA TGTGATGGTT TATACCTTTG
TATAAATTAG TTTGAGAATA AATGTAATAA TCTGTGGGAT TTTATTAATG TCAGGTGATA ACTTGGATTT
CTAAAAGATT TGTTGATACG AGGGTAAAAG TATTAGGGTA AATTAATCAG AAAATTAGAA ATGTGCATAT
ATCTTGCTGT TTGAATTATG TTAATCTTAG ATTTGGAATT TATTATTAGT TTTCTTTTGT TACCTACAGT
GGCACTTAGG AGACCTATTT AACTTTGCAA ATAAAATTTG TAACTTGATA ACTAATTGTT TTAAGTTAGT
GGATAATAGT TATCAAAGTG TTTAGTGTCT TTAAGCTATG ATAATTTAAT ATTGTCTTTT TAAATTATCC
TAGGTAGAAG AATACATGTT CACTTCCAGT GAACAAGAGC GATGCACAAT TCAACTTTCA GAATGCAGAG
TGAGTATGGT GATATTTTGG CCCATGTTGT TGGTAAATTT CATTTTCTAT TTGACATAAA CCCTTTTTGT
ATGAAACTTT TGAACATGGA GAATATGTCG TCACATTTTT TTTTGATACG GATGTATTTA ATTTTTTTTC
AGAGACTGGT TTTGTTTTTA AAGAAAAAAT ATGTATAAAT TACTGTTCTT TTCTTTGATT TTGTTAGCTT
GTCTAGAGCT GTGTCATTAC AGCAGCTGAC ATATGGAAAT GTCAGTCCAA TACAGACCTC AGCTTCCCCA
TTATTTCGAG GAAGGAAGTA AGTACTTCTT AATTATTTTA AAAGAATATT TTTGCATTTC TGAGAACTCT
GTAATGATGT ATCTTGAATT AATATTGTAT GGACCCTAAG CCCTATGTTT TGTTTTCTGG GACCTGTACG
ATCAGATGAG TCATGGAATT TTAACATTTT TATGCGTTTA AAAATTTTAG GTGTTCTTTT GTTGATTTGT
TCCTGCTTTA TTGTATGTTT GTTTCTGCCC TACATCAGAT CTCCCCTTTT CTATATCCCA GGTTTTCTTT
TTCTAGAATA
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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.

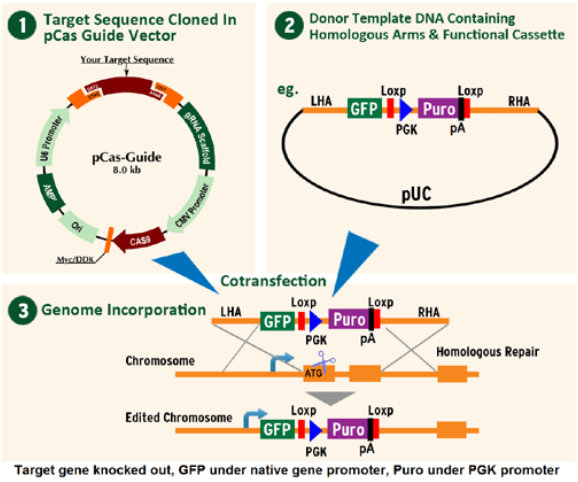
RefSeq: NM_001114393, NM_001114394, NM_001297744, NM_001297745, NM_173797, NM_001349548, NM_001349549, NM_001349550, NM_001349551, NM_001349552, NM_001349553, NM_001349554

UniProt ID: Q6PIY7

Synonyms: GLD2; TUT2

Summary: Cytoplasmic poly(A) RNA polymerase that adds successive AMP monomers to the 3'-end of specific RNAs, forming a poly(A) tail. In contrast to the canonical nuclear poly(A) RNA polymerase, it only adds poly(A) to selected cytoplasmic mRNAs (PubMed:15070731). Does not play a role in replication-dependent histone mRNA degradation (PubMed:18172165). Adds a single nucleotide to the 3' end of specific miRNAs, monoadenylation stabilizes and prolongs the activity of some but not all miRNAs (PubMed:23200856).[UniProtKB/Swiss-Prot Function]

Product images:



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