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Product datasheet for KN211508

Dystrophin (DMD) 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: Dystrophin

Locus ID: 1756

Components: **KN211508G1**, Dystrophin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACAAGCAGCTGTTGGTAGCT
KN211508G2, Dystrophin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTCAAACATATGCTTTGTCA
KN211508D, 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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TACAGGCATC GTGGTGTCAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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.

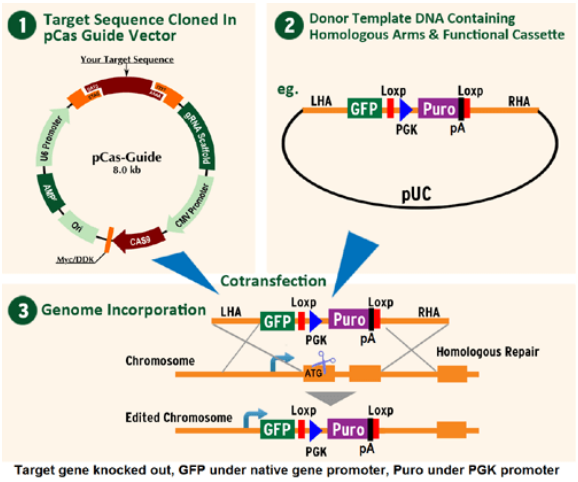
RefSeq: NM_000109, NM_004006, NM_004007, NM_004009, NM_004010, NM_004011, NM_004012, NM_004013, NM_004014, NM_004015, NM_004016, NM_004017, NM_004018, NM_004019, NM_004020, NM_004021, NM_004022, NM_004023

UniProt ID: P11532

Synonyms: BMD; CMD3B; DXS142; DXS164; DXS206; DXS230; DXS239; DXS268; DXS269; DXS270; DXS272; MRX85

Summary: This gene spans a genomic range of greater than 2 Mb and encodes a large protein containing an N-terminal actin-binding domain and multiple spectrin repeats. The encoded protein forms a component of the dystrophin-glycoprotein complex (DGC), which bridges the inner cytoskeleton and the extracellular matrix. Deletions, duplications, and point mutations at this gene locus may cause Duchenne muscular dystrophy (DMD), Becker muscular dystrophy (BMD), or cardiomyopathy. Alternative promoter usage and alternative splicing result in numerous distinct transcript variants and protein isoforms for this gene. [provided by RefSeq, Dec 2016]

Product images:



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