

Product datasheet for KN211508BN

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Dystrophin (DMD) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo
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

KN211508BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

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 gape locus may cause Duchenge muscular dystrophy (DMD). Posker muscular

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

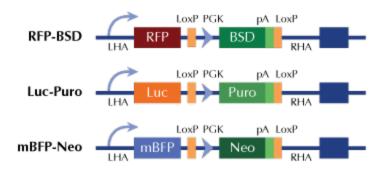
by RefSeq, Dec 2016]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter