

Product datasheet for **KN200006BN**

LDL Receptor (LDLR) Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control |
| Donor DNA: | mBFP-Neo |
| Symbol: | LDL Receptor |
| Locus ID: | 3949 |
| Components: | KN200006G1 , LDL Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN200006G2 , LDL Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN200006BND , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. GE100003 , scramble sequence in pCas-Guide vector |
| RefSeq: | NM_000527 , NM_001195798 , NM_001195799 , NM_001195800 , NM_001195802 , NM_001195803 |
| UniProt ID: | P01130 |
| Synonyms: | FH; FHC; LDLCQ2 |
| Summary: | The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Sep 2010] |



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Product images:

