

## Product datasheet for **KN206911BN**

### FNDC3B 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:** FNDC3B  
**Locus ID:** 64778  
**Components:** **KN206911G1**, FNDC3B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN206911G2**, FNDC3B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN206911BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.

Homologous arm and mBFP-Neo sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **mBFP-Neo in green**; **Right arm in violet**

```
AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCAATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCACAT TTCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCTTTTCGGG TCGCGCGTTT CGGTGATGAC
GGTGAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAACCGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTITT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGTTCGAGGT GCCGTAAGC ACTAAATCGG AACCTAAAG GGAGCCCCG ATTTAGAGT TGACGGGGAA
AGCCGGCGAA CGTGCCGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACAG CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCG TACAGGGCGC GTAATATGTT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATGCGT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTACAG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTCACGA CGTTGTAAAA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTGTA
TAACTGCCCG TTATTCATGC GACACATCAT TTAATAATTGT GTGAGAGCGT GTGTGTGTAT TTATTTTTGT
TCGTTTATAC TTCTTTGTC ATCTTTGCCA TATATTTTGG GCATAATTGA AGAATAACA CTTCTTAAGG
```



AACAAAGTTAT AATTGTAAT AGGAATTAAC TGTTATTTTC CTTCTATTGT ATTGCAAAGC TAAATGATGG  
 TGGCAGATAC CACTATGGGA TGAAGTAGG CTTTGTGTTA TTTTGAAAAT GTGTATGAAT TTCATTACAA  
 TAAATGGAAT AAACGGAATA GAAACAACGG AATCTACCTT TAAGCCTGAC TGAAGAAGTT GCCCTGGATA  
 TATCTGAGAT ACAGGAAAGT TATGTTTACA TGGCCACTTA GAGATTCTGG TCTTTTGTCT CCTAGTTTCTAG  
 GCTATTTCCG TGCCTTTGTT CTACCCCTCT TTGGGGCCTG ACATAATAAT ACAGGGCTCT CAAATTAGAA  
 TAACCTGGGT TTCACGATGG AGCACTTAGA TTGTTATGTG ACTTGTGTG TTACAGGTGA TTTTGTGGT  
 TCTGAGTCCT TTTTAAAAAG CGGCGTCTCT CTGCGAGGAA GCCAGTTGAG GGAAGTCTCT CATGACCTAG  
 CATGAGCGAG CTGATTAAGG AGAACATGCA CATGAAGCTG TACATGGAGG GCACCGTGGA CAACCATCAC  
 TTCAAGTGCA CATCCGAGGG CGAAGGCAAG CCCTACGAGG GCACCCAGAC CATGAGAATC AAGGTGGTCG  
 AGGGCGGCC TCTCCCTTC GCCTTCGACA TCCTGGCTAC TAGCTTCTCT TACGGCAGCA AGACCTTCAT  
 CAACCACACC CAGGGCATCC CCGACTTCTT CAAGCAGTCC TTCCCTGAGG GCTTCACATG GGAGAGAGTC  
 ACCACATACG AAGACGGGGG CGTGCTGACC GCTACCCAGG ACACCAGCCT CCAGGACGGC TGCCTCATCT  
 ACAACGTCAA GATCAGAGGG GTGAACTCA CATCCAACGG CCCTGTGATG CAGAAGAAAA CACTCGGCTG  
 GGAGGCCCTC ACCGAGACGC TGTACCCCGC TGACGGCGGC CTGGAAGGCA GAAACGACAT GGCCCTGAAG  
 CTGCTGGGCG GGAGCCATCT GATCGCAAAC ATCAAGACCA CATATAGATC CAAGAAACCC GCTAAGAACC  
 TCAAGATGCC TGCGTCTAC TATGTGGACT ACAGACTGGA AAGAATCAAG GAGGCCAACA ACGAGACCTA  
 CGTCGAGCAG CACGAGGTGG CAGTGGCCAG ATACTGCGAC CTCCCTAGCA AACTGGGGCA CTAATTCGAT  
 CATATTCAAT AACCCTTAAT ATAACCTCGT ATAATGTATG CTATACGAAG TTATTAGGTC TGAAGAGGAG  
 TTTACGTCCA GCCAAGCTTA GGATCTCGAC CTCGAAATTC TACCGGGTAG GGGAGGCGCT TTTCCCAAGG  
 CAGTCTGGAG CATGCGCTTT AGCAGCCCCG CTGGGCACTT GGCGCTACAC AAGTGGCCTC TGGCCTCGCA  
 CACATTCCAC ATCCACCGGT AGGCGCCAAC CGACTCCGTT CTTTGGTGGC CCCTTCGCGC CACCTTCTAC  
 TCCTCCCCTA GTCAGGAAGT TCCCCCGC CCCGACGCTC GCGTCGTGCA GGACGTGACA AATGGAAGTA  
 GCACGTCTCA CTAGTCTGTT GCAGATGGAC AGCACCCTG AGCAATGGAA GCGGGTGGC CTTTGGGGCA  
 GCGGCCAATA GCAGCTTTGC TCCTTCGCTT TCTGGGCTCA GAGGCTGGGA GAGGGTGGT CCGGGGCGG  
 GCTCAGGGGC GGGCTCAGGG GCGGGGCGGG CGCCCGAAGG TCCTCCGAGG GCCCGGCATT CTGCACGCTT  
 CAAAAGCGCA CGTCTGCCGC GCTGTTCTCC TCTTCTCAT CTCCGGGCTT TCCGACCTGC ATCCATCTAG  
 ATCTCGAGCA GCTGAAGCTT ACCATGATTG AACAAGATGG ATTGCACGCA GGTTCCTCCG CCGCTTGGGT  
 GGAGAGGCTA TTCGGCTATG ACTGGGCACA ACAGACAATC GGCTGCTCTG ATGCCCGCT GTTCCGGCTG  
 TCAGCGCAGG GGCGCCGGT TCTTTTTGTC AAGACCGACC TGTCCGGTGC CCTGAATGAA CTGCAGGACG  
 AGGCAGCGCG GCTATCGTGG CTGGCCACGA CGGGCGTTC TTGCGCAGCT GTGCTCGACG TTGTCACTGA  
 AGCGGGAAGG GACTGGCTGC TATTGGGCGA AGTGCCGGGG CAGGATCTCC TGTCACTCA CCTTGCTCCT  
 GCCGAGAAAG TATCCATCAT GGCTGATGCA ATGCGGGCGC TGCATACGCT TGATCCGGCT ACCTGCCCAT  
 TCGACCACCA AGCGAAACAT CGCATCGAGC GAGCACGTAC TCGGATGGAA GCCGGTCTTG TCGATCAGGA  
 TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA CTGTTCCGCA GGCTCAAGGC GCGCATGCC  
 GACGGCGAGG ATCTCGTCTG GACCCATGGC GATGCCTGCT TGCCGAATAT CATGGTGGAA AATGGCCGCT  
 TTTCTGGATT CATCGACTGT GGCCTGGCTGG GTGTGGCCGA CCGCTATCAG GACATAGCGT TGGCTACCCG  
 TGATATTGCT GAAGAGCTTG GCGGCGAATG GGCTGACCGC TTCCTCGTGC TTTACGGTAT CGCCGCTCCC  
 GATTTCGACG GCATCGCCTT CTATCGCCTT CTGACGAGT TCTTCTGACG CCCGCCACG GACCCGACG  
 GCCCGACCGA AAGGAGCGCA CGACCCCATG CATCGATGAT ATCAGATCCC CGGGATGCAG AAATTGATGA  
 TCTATTAAC AATAAAGATG TCCACTAAAA TGGAAAGTTT TCCTGTCATA CTTTGTAAAG AAGGGTGAGA  
 ACAGAGTACC TACATTTTGA ATGGAAGGAT TGGAGTACG GGGGTGGGGG TGGGGTGGGA TTAGATAAAT  
 GCCTGCTCTT TACTGAAGGC TCTTTACTAT TGCTTTATGA TAATGTTTCA TAGTTGGATA TCATAATTTA  
 AACAAAGAAA ACCAAATTAA GGGCCAGCTC ATTCCTCCA CTCATGATCT ATAGATCTAT AGATCTCTCG  
 TGGGATCATT GTTTTTCTCT TGATTCCAC TTTGTGGTTC TAAGTACTGT GGTTCCTCAA TGTGTCAATT  
 TCATAGCCTG AAGAACGAGA TCAGCAGCCT CTGTTCCACA TACACTTCAT TCTCAGTATT GTTTTGCCAA  
 GTTCTAATTC CATCAGAAGC TGGTCGAGAT CCGGAACCTT TAATATAACT TCGTATAATG TATGCTATAC  
 GAAGTTATTA GGTCCCTCGA AGAGGTTTAC TAGGCGCGCC CTAAGTGGGA AACAGTAACA CAGTATTTGA  
 TTTATTTTGG GATTCAAAGG TTTGTGATTT CAAACCTTAG CATTCTAGA GGTAAGTGT TTTGTGTAG  
 AAATACTGTA TCGTTTTTAA AAATGTGATT TTAGAGAACA AAATCTTCCC TCATTCAAGT TGTATTCTTG  
 AAGTATTGAA AAATGGATGA CTTCTGAAGT GAGTCATTTT CAGACTGCAT AAAAGTCTTC GAAATAAAAT  
 GACTGTTTAT TCATGCTGTA TTGTGCTTGA CTAGTTTGTG TGGTTGGCCA GAGCTGCATG CTCAGAGGGT  
 CAGGTTTTGG CTTACACAG GAGTGATCTC GACAAGACAC GTAGGGCAGT GTGAACCCAC CCTTGCTCTC

GGAATAGTCC TTCCAAATGT GTAGCTCATA AAATCACGGT ACTTATTTTC TCTGAATCTC CTTTGTCACT  
 AGTCACTGAA CATTGTGGAA TAGAGTTATT TGTGAACTCA GTCAAGTAGC ACTTGGGGGA AACAAATTTAG  
 ACAGTAAGTG AAACTTTAAAC AAATTATTAG GGATTGAACT ATTATCTCTA ACATTAATTA AAAATTTTTTA  
 TTGCAACAGT TCACTCTCGC CGGTTGGACT TTAGATCAGA AGGGATCTTG CTGCCGCCCG AAAGAGGAAG  
 GGCTGGAAGA GGAAGGAGCT TGGCGTAATC ATGGTCATAG CTGTTTCCTG TGTGAAATTG TTATCCGCTC  
 ACAATCCAC ACAACATACG AGCCGGAAGC ATAAAGTGTA AAGCCTGGGG TGCCTAATGA GTGAGCTAAC  
 TCACATTAAT TCGGTTGGCG TCACTGCCCG CTTTCCAGTC GGGAAACCTG TCGTGCCAGC TGCATTAATG  
 AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG CTTCTCGCT CACTGACTCG  
 CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC ACTCAAAGGC GGTAATACGG TTATCCACAG  
 AATCAGGGGA TAACGCAGGA AAGAACATGT GAGCAAAAGG CCAGCAAAAG GCCAGGAAC GTAAAAAGGC  
 CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG  
 AGGTGGCGAA ACCCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC  
 CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCGCTT TCTCCCTCG GGAAGCGTGG CGCTTCTCA  
 TAGCTCACGC TGAGGTATC TCAGTTCCGT GTAGGTCGTT CGTCCAAGC TGGGCTGTGT GCACGAACCC  
 CCCGTTCCAGC CCGACCGCTG CGCCTTATCC GGTAACATC GTCTTGAGTC CAACCCGGTA AGACACGACT  
 TATCGCCACT GGCAGCAGCC ACTGGTAACA GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT  
 CTTGAAGTGG TGGCCTAACT ACGGCTACAC TAGAAGAACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA  
 GTTACCTTCG GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT  
 TTGTTTGC AA GCAGCAGATT ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG  
 GTCTGACGCT CAGTGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA GATTATCAA AAGGATCTTC  
 ACCTAGATCC TTTTAAATTA AAAATGAAGT TTTAAATCAA TCTAAAGTAT ATATGAGTAA ACTTGGTCTG  
 ACAGTTACCA ATGCTTAATC AGTGAGGCAC CTATCTCAGC GATCTGTCTA TTTCTGTTCA CATAGTTGC  
 CTGACTCCCC GTCGTGTAGA TAACTACGAT ACGGGAGGGC TTACCATCTG GCCCCAGTGC TGCAATGATA  
 CCGCGAGAAC CACGCTCACC GGCTCCAGAT TTATCAGCAA TAAACCAGCC AGCCGGAAGG GCCGAGCGCA  
 GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT TAATTGTTGC CGGGAAGCTA GAGTAAGTAG  
 TTCGCCAGTT AATAGTTTGC GCAACGTTGT TGCCATTGCT ACAGGCATCG TGGTGTACAG CTCGTCGTTT  
 GGTATGGCTT CATTAGCTC CGGTTCCCAA CGATC

**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\\_001135095](#), [NM\\_022763](#)

**UniProt ID:**

[Q53EP0](#)

**Synonyms:**

FAD104; PRO4979; YVTM2421

**Summary:**

May be a positive regulator of adipogenesis.[UniProtKB/Swiss-Prot Function]

## Product images:

