

## Product datasheet for **KN200541BN**

### NME6 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:** NME6  
**Locus ID:** 10201  
**Components:** **KN200541G1**, NME6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN200541G2**, NME6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN200541BND**, 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 TCTTACCCTT GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC 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 CCCTTTTCGGG TCGCGCGTTT CGGTGATGAC
GGTGAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCACTA CGTGAACCAT CACCCAATC AAGTTTTTTG
GGTTCGAGGT GCCGTAAGC ACTAAATCGG AACCTAAG GGAGCCCCG ATTTAGAGT TGACGGGGAA
AGCCGGCGAA CGTGCCGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACG CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCG TACAGGGCGC GACTATGTT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATGCGT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTACGCA CGTTGTAAAA
CGACGGCCAG TGAATTGAG GCTACAGTCA GTGGAGAGGA CTTTCACGAC TGAAGTACTG GAAGACACAC
CTAGCTCAA AGACTTTGAA GGGCTGTGC CTTCGCTATC GAGCGCTTAA GTTCTTTGCC CTCCGCTAC
TTTTGACAAA TACTGGCAT CAACCATGTT CCAGGAATA CCCTGGCAA AGAAAATAAC TGGCAAGGT
```



TTCCATCGGT GTCTCTGCTG GCGGGCATCG CCCCCGCCGG GCCGCCACCC TGAACGAGCC CGTCCGGTCC  
 TCTGGGTTCC GCCACCCTGC GTAGCGCTGC GCCAGCACCC GGCCAGCAC TCCCTCCCGC CGAGGGCGCC  
 CAGGCCGGCT TCCGAGGGCG CCCAGGCCGG CTTCGAGGG GCGGTTCCCA CAAGCGAGTT CCGGCGCCCA  
 GAACGGCTTC ATCCTCTCGT CCCGTCCGCG GCAAATGCAT GCGCCTGGAA AACCCGCCAC CCTCCAGGGC  
 AACTCACACC TCACCTCACG CCGCGGCGCA ACCGGACTAG GACCCCGAGC AGGGTGCC CCGGAGCGCC  
 TGAAGGACCC TGCAGGGCC GCAGGCTATC CAGCGTGGCG CCTGGTGGCC GGGCCCTGTG CCGGAGGACA  
 AGGTGAACCC GCAGCCGGAC TTCTGCTGCA CTGGGGTCC GAACTAGCAT GAGCGAGCTG ATTAAGGAGA  
 ACATGCACAT GAAGCTGTAC ATGGAGGGCA CCGTGGACAA CCATCACTTC AAGTGCACAT CCGAGGGCGA  
 AGGCAAGCCC TACGAGGGCA CCCAGACCAT GAGAATCAAG GTGGTCGAGG GCGGCCCTCT CCCCTTCGCC  
 TTCGACATCC TGGTACTAG CTTCTCTAC GGCAGCAAGA CCTTCATCAA CCACACCAG GGCATCCCCG  
 ACTTCTTCAA GCAGTCCTTC CCTGAGGGCT TCACATGGGA GAGAGTCACC ACATACGAAG ACGGGGGCGT  
 GCTGACCGCT ACCCAGGACA CCAGCCTCCA GGACGGCTGC CTCATCTACA ACGTCAAGAT CAGAGGGGTG  
 AACTTCACAT CCAACGGCCC TGTGATGCAG AAGAAAACAC TCGGCTGGGA GGCCTTACC GAGACGCTGT  
 ACCCCGCTGA CGGCGGCTG GAAGGCAGAA ACGACATGGC CCTGAAGCTC GTGGGCGGGA GCCATCTGAT  
 CGAAACATC AAGACCACAT ATAGATCAA GAAACCCGT AAGAACCTCA AGATGCCTGG CGTCTACTAT  
 GTGGACTACA GACTGAAAAG AATCAAGGAG GCCAACAACG AGACCTACGT CGAGCAGCAC GAGGTGGCAG  
 TGGCCAGATA CTGCGACCTC CCTAGCAAAC TGGGGCACTA AATCGATCAT ATTCAATAAC CCTTAATATA  
 ACTTCGTATA ATGTATGCTA TACGAAGTTA TTAGGTCTGA AGAGGAGTTT ACGTCCAGCC AAGCTTAGGA  
 TCTCGACCTC GAAATTCTAC CGGGTAGGGG AGGCGCTTTT CCCAAGGCAG TCTGGAGCAT GCGCTTATAGC  
 AGCCCCGCTG GGCATTGGC GCTACACAAG TGGCCTCTGG CCTCGCACAC ATTCCACATC CACCGGTAGG  
 CGCAACCGA CTCGGTCTT TGGTGGCCCC TTCGCGCCAC CTTCTACTCC TCCCCTAGTC AGGAAGTTCC  
 CCCCCGCCC GCAGCTCGCG TCGTGCAGGA CGTGACAAT GGAAGTAGCA CGTCTACTA GTCTCGTGCA  
 GATGCACAGC ACCGCTGAGC AATGGAAGCG GGTAGGCCTT TGGGGCAGCG GCCAATAGCA GCTTTGTCTC  
 TTCGCTTCT GGGCTCAGAG GCTGGGAAGG GGTGGTCCG GGGGCGGCT CAGGGGCGG CTCAGGGGCG  
 GGGCGGGCGC CCGAAGGTCC TCCGAGGCC CGGCATTCTG CACGCTTCAA AAGCGCACGT CTGCCGCGCT  
 GTTCTCTCT TCCTCATCTC CGGCCTTTC GACCTGCATC CATCTAGATC TCGAGCAGCT GAAGCTTACC  
 ATGATTGAAC AAGATGGATT GCACGCAGGT TCTCCGGCCG CTTGGGTGGA GAGGCTATTC GGCTATGACT  
 GGGCACAACA GACAATCGGC TGCTCTGATG CCGCCGTGTT CCGGCTGTCA GCGCAGGGG GCCCGTTCT  
 TTTTGTAAG ACCGACCTGT CCGGTGCCCT GAATGAACTG CAGGACGAGG CAGCGCGCT ATCGTGGCTG  
 GCCACGACGG GCGTTCCTG CGCAGCTGTG CTCGACGTTG TCACTGAAGC GGAAGGGAC TGGCTGCTAT  
 TGGGCGAAGT GCCGGGGCAG GATCTCCTGT CATCTCACCT TGCTCCTGCC GAGAAAGTAT CCATCATGGC  
 TGATGCAATG CCGCGGCTGC ATACGCTTGA TCCGGTACC TGCCCATTCG ACCACCAAGC GAAACATCGC  
 ATCGAGCGAG CACGTAICTG GATGGAAGCC GGTCTTGTG ATCAGGATGA TCTGGACGAA GAGCATCAGG  
 GGCTCGGCC AGCCGAAGT TTCGCCAGGC TCAAGGCGCG CATGCCGAC GGCAGGATC TCGTCGTGAC  
 CCATGGCGAT GCCTGCTTGC CGAATATCAT GGTGAAAAAT GGCCGCTTTT CTGGATTCAT CGACTGTGGC  
 CGGCTGGGTG TGGCCGACCG CTATCAGGAC ATAGCGTTGG CTACCCGTA TATTGCTGAA GAGCTTGGCG  
 GCGAATGGGC TGACCGCTTC CTCGTGCTTT ACGGTATCGC CGCTCCGAT TCGCAGCGCA TCGCCTTCTA  
 TCGCCTTCT GACGAGTTCT TCTGACGCCC GCCCACGAC CCGCAGCGCC CGACCGAAAG GAGCGCACGA  
 CCCATGCAT CGATGATATC AGATCCCCGG GATGCAGAAA TTGATGATCT ATTAACAAT AAAGATGTCC  
 ACTAAAATGG AAGTTTTTCC TGTACACTT TGTAAAGAAG GGTGAGAACA GAGTACCTAC ATTTTGAATG  
 GAAGGATTGG AGCTACGGG GTGGGGGTGG GGTGGGATTA GATAAATGCC TGCTCTTTAC TGAAGGCTCT  
 TTAATATTGC TTTATGATAA TGTTTCATAG TTGGATATCA TAATTTAAAC AAGCAAAACC AAATTAAGGG  
 CCAGCTCATT CCTCCACTC ATGATCTATA GATCTATAGA TCTCTCGTG GATCATTGTT TTTCTCTTGA  
 TTCCACTTT GTGGTTCTAA GACTGTGGT TTCCAAATGT GTCAGTTTCA TAGCCTGAAG AACGAGATCA  
 GCAGCCTCTG TTCCACATAC ACTTCATTCT CAGTATTGTT TTGCCAAGTT CTAATTCCAT CAGAAGCTGG  
 TCGAGATCCG GAACCTTAA TATAACTCG TATAATGTAT GCTATACGAA GTTATTAGT CCCTCGAAGA  
 GGTCACTAG GCGGCCTTG AGGCCGTGAG CCGGGGGGCG TGGAGGGCGT GGCCACGGG GTAGGGGCGC  
 AGTCCCCGCG CGCGCTGGG TGGACCAGGG CTGGGCCGCC GCCCTCAGG AAGCGAGTGG TGGCCCCCTC  
 GAGTGCTGGG GTGGCAGTGT ACCGACAGCT TTACTTTTTT TTTGTTTTGG AGACGGAGTC TGGTCTGTG  
 GCCAGGCTGG AGTGCAGTGG CGCGATCTCG GCTCACTGCA GCCTCCGCT CCAGAGTTCA AGTAATGCTC  
 CTGCTCAGC CTCCTAGTA GCTGTGACTG TAGGCGCGCG CCGTTATGCC TGGCTAATTT TTTTGTATTT  
 TTAGTAGAGA CGGGCTTCA CCATGTTGGC CAGGATGGTC TTGATCTCT GACTTCGTGA TCCGCCGCG

TCGGTCTTTC AAAGTGCTGG GATTACAGGC GTGAGACACC GCGCCCTGCC TAAAATTTTT AATTCTCATG  
 GAGTCACCTT TAAGTCTAAC AGGATTCTCG ACTTGTCACT TTGTTGTAAA CCAAGAGTCA AGACAGCCAC  
 AACTTAGCTG CGTTAGTAAA GGAACCATGT CCTCCCTACA GGCCGCGTGT TCTTGCCACG ACAGTCTTCA  
 CTGACTGACT GACTGGAAA AGGAAGGGCT GGAAGAGGAA GGAGCTTGGC GTAATCATGG TCATAGCTGT  
 TTCCTGTGTG AAATTGTTAT CCGCTCACA TTCCACACA CATACGAGCC GGAAGCATAA AGTGTAAGC  
 CTGGGGTGCC TAATGAGTGA GCTAACTCAC ATTAATTGCG TTGCGCTCAC TGCCCCGTTT CCAGTCGGGA  
 AACCTGTGCT GCCAGTGCA TTAATGAATC GGCCAACGCG CGGGGAGAGG CGGTTTGCCT ATTGGGCGCT  
 CTTCCGCTTC CTCGCTCACT GACTCGCTGC GCTCGGTCGT TCGGCTGCGG CGAGCGGTAT CAGCTCACT  
 AAAGCGGTA ATACGGTTAT CCACAGAATC AGGGGATAAC GCAGGAAAGA ACATGTGAGC AAAAGGCCAG  
 CAAAAGGCCA GGAACCGTAA AAAGGCCGCG TTGCTGGCGT TTTTCCATAG GCTCCGCCCC CCTGACGAGC  
 ATCACA AAAA TCGACGCTCA AGTCAGAGGT GGCGAAACCC GACAGGACTA TAAAGATACC AGGCGTTTCC  
 CCCTGGAAGC TCCCTCGTGC GCTCTCTGT TCCGACCCTG CCGCTTACCG GATACCTGTC CGCCTTTCTC  
 CCTTCGGGAA GCGTGGCGCT TTCTCATAGC TCACGCTGTA GGTATCTCAG TTCGGTGTAG GTCGTTGCT  
 CCAAGCTGGG CTGTGTGCAC GAACCCCCG TTCAGCCCGA CCGCTGCGCC TTATCCGGTA ACTATCGTCT  
 TGAGTCCAAC CCGTAAGAC ACGACTTATC GCCACTGGCA GCAGCCACTG GTAACAGGAT TAGCAGAGCG  
 AGGTATGTAG GCGGTGCTAC AGAGTTCTTG AAGTGGTGGC CTAACACGCG CTACACTAGA AGAACAGTAT  
 TTGGTATCTG CGCTCTGCTG AAGCCAGTTA CCTTCGGAAA AAGAGTTGGT AGCTCTTGAT CCGGCAACA  
 AACCACCGCT GGTAGCGGTG GTTTTTTGT TTGCAAGCAG CAGATTACGC GCAGAAAAA AGGATCTCAA  
 GAAGATCCTT TGATCTTTT TACGGGTCT GACGCTCAGT GGAACGAAAA CTCACGTTAA GGGATTTTGG  
 TCATGAGATT ATCAAAAAGG ATCTTCACCT AGATCCTTTT AAATTA AAAA TGAAGTTTTA AATCAATCTA  
 AAGTATATAT GAGTAAACTT GGTCTGACAG TTACCAATGC TTAATCAGTG AGGCACCTAT CTCAGCGATC  
 TGCTATTTT GTTCATCCAT AGTTGCCTGA CTCCCCGTCG TGTAGATAAC TACGATACGG GAGGGCTTAC  
 CATCTGGCCC CAGTGCTGCA ATGATACCGG GAGAACCACG CTCACCGGCT CCAGATTTAT CAGCAATAAA  
 CCAGCCAGCC GGAAGGGCCG AGCGCAGAAG TGGTCCTGCA ACTTTATCCG CCTCCATCCA GTCTATTAAT  
 TGTTGCCGGG AAGCTAGAGT AAGTAGTTCG CCAAGTTAATA GTTTGCGCAA CGTTGTTGCC ATTGCTACAG  
 GCATCGTGGT GTCACGCTCG TCGTTTGTA TGGCTTCATT CAGCTCCGGT TCCCAACGAT C

**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\\_001308426](#), [NM\\_001308427](#), [NM\\_001308428](#), [NM\\_001308430](#), [NM\\_001308431](#), [NM\\_001308433](#), [NM\\_001308434](#), [NM\\_001308435](#), [NM\\_005793](#)

**UniProt ID:**

[O75414](#)

**Synonyms:**

IPIA-ALPHA; NDK 6; NM23-H6

**Summary:**

Nucleoside diphosphate (NDP) kinases (EC 2.7.4.6), such as NME6, are ubiquitous enzymes that catalyze transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates (Mehus et al., 1999 [PubMed 10453732]).[supplied by OMIM, Jul 2010]

## Product images:

