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

Product datasheet for KN203393

XLF (NHEJ1) 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: XLF

Locus ID: 79840

Components: **KN203393G1**, XLF gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACGCCCATGGCTGCATCAAC
KN203393G2, XLF gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAAGCTGTAGCCACGCCCA
KN203393D, 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

```
AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGCGTTT CGGTGATGAC
GGTGAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCCAAATC AAGTTTTTTG
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCTAAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGGCGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTCACG CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GTACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATGCGT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTC CCAGTCACGA CGTTGTAAAA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA
```


View online »

TAACTGCCCG TTATTCATGC GACACGTGTA CACATAACAT TTTCATATAA TTCTAGAGGA TTCACATGCA
TTGACTCTAG ATTAAGAACC TGTTTTAGGG ATTTTTAAAA AAATCCTGAG AGCTTCCTAA ACTTTGTTTT
TAGATAATGA TCAAATACTT CGAATTTCCT GGCCCTGACA CTATGACTTA TGATGTTTTA TAAGACAAGA
ACTATTCCTT CTCTTCTAGT TCTGGGAAAG GATAGGAGTG ACATATTTAT TAGGAATGTG ATAAAGATGG
AACAAGAAGG GTTTAGGTTT CCACGTTATG TTATAGTATT AGAAAGCAGA AATACTAACA GCAATATGCT
GAGGTTTAAA CACTATGGAA GAAAGATTTT CTGTCCTCTA GGAATGTAAT ATGGGAAAAA AAAAACCCTC
AAGATTTTAA ATATACTTTT AGTGGCCAGG AGGTAGTAAA GTCAGTGCTC AGCTGGTTGT ATACTGGGAG
AACGTAAATC CATGCCTTCT ATTTTATCAG GGAGGATTTT CATGAGATTT TAGTTGATAC AGACTGGTTT
GGGTGGTGCC CTCCCTAGGC CAGCATGACC CTGAGGCTCT TTACTAAATG AGGACTTTTT TGCAGACTAG
CATGGAGAGC GACGAGAGCG GCCTGCCCGC CATGGAGATC GAGTGCCGCA TCACCGGCAC CCTGAACGGC
GTGGAGTTCG AGCTGGTGGG CGGCGGAGAG GGCACCCCCG AGCAGGGCCG CATGACCAAC AAGATGAAGA
GCACCAAAGG CGCCCTGACC TTCAGCCCCT ACCTGCTGAG CCACGTGATG GGCTACGGCT TCTACCACTT
CGGCACCTAC CCCAGCGGCT ACGAGAACCC CTTCCTGCAC GCCATCAACA ACGGCGGCTA CACCAACACC
CGCATCGAGA AGTACGAGGA CGGCGGCGTG CTGCACGTGA GCTTCAGCTA CCGCTACGAG GCCGGCCGCG
TGATCGGCGA CTTCAAGGTG ATGGGCACCG GCTTCCCCGA GGACAGCGTG ATCTTCACCG ACAAGATCAT
CCGCAGCAAC GCCACCGTGG AGCACCTGCA CCCCATGGGC GATAACGATC TGGATGGCAG CTTCACCCGC
ACCTTCAGCC TGCGCGACGG CGGCTACTAC AGCTCCGTGG TGGACAGCCA CATGCACTTC AAGAGCGCCA
TCCACCCCAG CATCCTGCAG AACGGGGGCC CCATGTTCGC CTTCCGCCGC GTGGAGGAGG ATCACAGCAA
CACCGAGCTG GGCATCGTGG AGTACCAGCA CGCCTTCAAG ACCCCGGATG CAGATGCCGG TGAAGAAAGA
GTTTAAGAAT TCCGATCATA TTCAATAACC CTTAATATAA CTTCGTATAA TGTATGCTAT ACGAAGTTAT
TAGGTCTGAA GAGGAGTTTA CGTCCAGCCA AGCTTAGGAT CTCGACCTCG AAATTCTACC GGGTAGGGGA
GGCGCTTTTC CCAAGGCAGT CTGGAGCATG CGCTTTAGCA GCCCCGCTGG GCACTTGGCG CTACACAAGT
GGCCTCTGGC CTCGCACACA TTCCACATCC ACCGGTAGGC GCCAACCGAC TCCGTTCTTT GGTGGCCCCT
TCGCGCCACC TTCTACTCCT CCCCTAGTCA GGAAGTTCCC CCCCGCCCCG CAGCTCGCGT CGTGCAGGAC
GTGACAAATG GAAGTAGCAC GTCTCACTAG TCTCGTGCAG ATGGACAGCA CCGCTGAGCA ATGGAAGCGG
GTAGGCCTTT GGGGCAGCGG CCAATAGCAG CTTTGCTCCT TCGCTTTCTG GGCTCAGAGG CTGGGAAGGG
GTGGGTCCGG GGGCGGGCTC AGGGGCGGGC TCAGGGGCGG GGCGGGCGCC CGAAGGTCCT CCGGAGGCCC
GGCATTCTGC ACGCTTCAAA AGCGCACGTC TGCCGCGCTG TTCTCCTCTT CCTCATCTCC GGGCCTTTCG
ACCTGCATCC ATCTAGATCT CGAGCAGCTG AAGCTTACCA TGACCGAGTA CAAGCCCACG GTGCGCCTCG
CCACCCGCGA CGACGTCCCC AGGGCCGTAC GCACCCTCGC CGCCGCGTTC GCCGACTACC CCGCCACGCG
CCACACCGTC GATCCGGACC GCCACATCGA GCGGGTCACC GAGCTGCAAG AACTCTTCCT CACGCGCGTC
GGGCTCGACA TCGGCAAGGT GTGGGTCGCG GACGACGGCG CCGCGGTGGC GGTCTGGACC ACGCCGGAGA
GCGTCGAAGC GGGGGCGGTG TTCGCCGAGA TCGGCCCGCG CATGGCCGAG TTGAGCGGTT CCCGGCTGGC
CGCGCAGCAA CAGATGGAAG GCCTCCTGGC GCCGCACCGG CCCAAGGAGC CCGCGTGGTT CCTGGCCACC
GTCGGCGTCT CGCCCGACCA CCAGGGCAAG GGTCTGGGCA GCGCCGTCGT GCTCCCCGGA GTGGAGGCGG
CCGAGCGCGC CGGGGTGCCC GCCTTCCTGG AGACCTCCGC GCCCCACAAC CTCCCCTTCT ACGAGCGGCT
CGGCTTCACC GTCACCGCCG ACGTCGAGGT GCCCGAAGGA CCGCGCACCT GGTGCATGAC CCGCAAGCCC
GGTGCCTGAC GCCCGCCCCA CGACCCGCAG CGCCCGACCG AAAGGAGCGC ACGACCCCAT GCATCGATGA
TATCAGATCC CCGGGATGCA GAAATTGATG ATCTATTAAA CAATAAAGAT GTCCACTAAA ATGGAAGTTT
TTCCTGTCAT ACTTTGTTAA GAAGGGTGAG AACAGAGTAC CTACATTTTG AATGGAAGGA TTGGAGCTAC
GGGGGTGGGG GTGGGGTGGG ATTAGATAAA TGCCTGCTCT TTACTGAAGG CTCTTTACTA TTGCTTTATG
ATAATGTTTC ATAGTTGGAT ATCATAATTT AAACAAGCAA AACCAAATTA AGGGCCAGCT CATTCCTCCC
ACTCATGATC TATAGATCTA TAGATCTCTC GTGGGATCAT TGTTTTTCTC TTGATTCCCA CTTTGTGGTT
CTAAGTACTG TGGTTTCCAA ATGTGTCAGT TTCATAGCCT GAAGAACGAG ATCAGCAGCC TCTGTTCCAC
ATACACTTCA TTCTCAGTAT TGTTTTGCCA AGTTCTAATT CCATCAGAAG CTGGTCGAGA TCCGGAACCC
TTAATATAAC TTCGTATAAT GTATGCTATA CGAAGTTATT AGGTCCCTCG AAGAGGTTCA CTAGGCGCGC
CTAGTTTCCC TACCCTATGC ATGATAATGA ATATATTATT TGATCTAGAT AGGCCTTTTG TGATTTAATC
TTGCCCAAGG CAGAATTGTG AAGTAGGCCA ATTGGTCTTT GTGACTCTCT TCTTTTTGTT TTCTTCTTTC
CCCTTGTGAT GTTTTTATCT TCTCTCCCCT TCCTCTCATG TCCATTGCCT TCGTGTTAAC CAGGGCTTTC
CTTTGCTGTT ACTTATGAGG GAATTAGTTT CCTTTTAGCA CCCTTACTCT GTACCACTGC TCTCTCTTTA
GGAGCTGAAC AAGCGGCTCA CTGCTCCTCC TGCAGCTTTC CTCTGTCATT TGGATAATCT CCTTCGCCCA
TTGTTGAAGG ACGCTGCTCA CCCTAGCGAA GCTACCTTCT CCTGTGATTG TGTGGCAGAT GCACTGATTC

TACGGGTGCG AAGTGAGCTC TCTGGCCTCC CCTTCTATTG GAATTTCCAC TGCATGCTAG CTAGTCCTTC
CCTGGTAAGT GTAATTCGAA TGTGGGGTTG GGGGAGGGAT GCCAGTTGCT TTGAGAGGAA GCTTTAGGTG
CTTTTATTTT TTTTGCAAAC CTTGTTTGAA ATTCTTCTCC ATCACTCTCG CCGGTTGGAC TTTAGATCAG
AAGGGATCTT GCTGCCGCCC GAAAGAGGAA GGGCTGGAAG AGGAAGGAGC TTGGCGTAAT CATGGTCATA
GCTGTTTCCT GTGTGAAATT GTTATCCGCT CACAATTCCA CACAACATAC GAGCCGGAAG CATAAAGTGT
AAAGCCTGGG GTGCCTAATG AGTGAGCTAA CTCACATTAA TTGCGTTGCG CTCACTGCCC GCTTTCCAGT
CGGGAAACCT GTCGTGCCAG CTGCATTAAT GAATCGGCCA ACGCGCGGGG AGAGGCGGTT TGCGTATTGG
GCGCTCTTCC GCTTCCTCGC TCACTGACTC GCTGCGCTCG GTCGTTCGGC TGCGGCGAGC GGTATCAGCT
CACTCAAAGG CGGTAATACG GTTATCCACA GAATCAGGGG ATAACGCAGG AAAGAACATG TGAGCAAAAG
GCCAGCAAAA GGCCAGGAAC CGTAAAAAGG CCGCGTTGCT GGCGTTTTTC CATAGGCTCC GCCCCCCTGA
CGAGCATCAC AAAAATCGAC GCTCAAGTCA GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG
TTTCCCCCTG GAAGCTCCCT CGTGCGCTCT CCTGTTCCGA CCCTGCCGCT TACCGGATAC CTGTCCGCCT
TTCTCCCTTC GGGAAGCGTG GCGCTTTCTC ATAGCTCACG CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT
TCGCTCCAAG CTGGGCTGTG TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTAT
CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGC CACTGGTAAC AGGATTAGCA
GAGCGAGGTA TGTAGGCGGT GCTACAGAGT TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGAAC
AGTATTTGGT ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC TTGATCCGGC
AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGCA AGCAGCAGAT TACGCGCAGA AAAAAAGGAT
CTCAAGAAGA TCCTTTGATC TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGAT
TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAATT AAAAATGAAG TTTTAAATCA
ATCTAAAGTA TATATGAGTA AACTTGGTCT GACAGTTACC AATGCTTAAT CAGTGAGGCA CCTATCTCAG
CGATCTGTCT ATTTCGTTCA TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACTACGA TACGGGAGGG
CTTACCATCT GGCCCCAGTG CTGCAATGAT ACCGCGAGAA CCACGCTCAC CGGCTCCAGA TTTATCAGCA
ATAAACCAGC CAGCCGGAAG GGCCGAGCGC AGAAGTGGTC CTGCAACTTT ATCCGCCTCC ATCCAGTCTA
TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG CGCAACGTTG TTGCCATTGC
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.

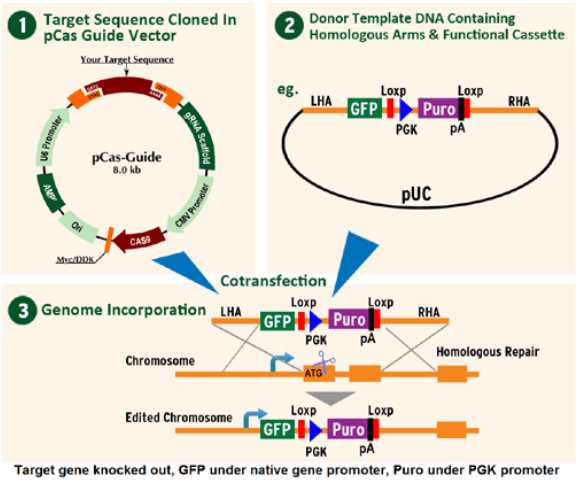
RefSeq: NM_024782

UniProt ID: Q9H9Q4

Synonyms: XLF

Summary: Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq, Jul 2008]

Product images:



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