

Product datasheet for **KN220378LP**

Neurofibromin (NF1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	Neurofibromin
Locus ID:	4763
Components:	KN220378G1 , Neurofibromin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN220378G2 , Neurofibromin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN220378LPD , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **Luciferase-Puro in green**;

Right arm in violet

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CTCCCGGTC AGCTCTGCA CTCGCCAGCT GAGCCCAGCG CCAGTCTAGG TGAGCCCCAC GCGCGTGAGG
GACGCTCGCC AGACGGCCCA GAGGAGTTAG ATGACGTCAC CTCCAGGAGG ACTCGCTTTT TCATTAATGA
AACCGGCCGG CGCGGGCGCA TGC GCGG CAG GCCGCTTCC CTCTCGCTTC CCCCTCCCCT TTCCCAGCCG
CGCTCTCAAT CTCTAGCTCG CTCGCGCTCC CTCTCCCCGG GCCGTGGAAA GGATCCCACT TCCGTTGGGG
TGTCATGGCG GCGTCTCGGA CTGTGATGGC TGTGGGGAGA CGGCGTAGT GGGGAGAGCG ACCAAGAGGC
CCCCTCCCCT CCCCGGGTCC CTTCCCCTA TCCCCTCCC CCCAGCCTCC TTGCCAACGC CCCCTTTCCC
TCTCCCCCTC CCGCTCGGCG CTGACCCCC ATCCCCACCC CCGTGGGAAC ACTGGGAGCC TGCCTCCAC
AGACCCTCTC CTTGCCTCTT CCCTCACCTC AGCCTCCGCT CCCCGCCCTC TTCCCGGCC AGGGCGCCGG
CCCACCCTTC CCTCCGCCGC CCCCCGGCG CGGGGAGGAC AGTAGGTGAG GGGAGGTAGG AGCGGCCGCC
TCCCCCGCGG CTGCCTCAGG CTCTGGAGGA AAGGAAGGGA AGGGAAGAGA AGGGAAGGGG GGATAAGTGG
GGGTGGCCAA GCGGGGAGGT GAGGGGTAGG AGGGGACAGC TGGGAGCTTG GGCACCCCTT CCCTCCTAAG
TCGGGGGGTG GGGCCTTGTC CCTGACCAGC CTCCGACCCT CCATCCCTT TATCCAGCC CTTCCGCTTG
GAAATGGGGA TGAGTGACCT GGGGGCGCCT TAGGGGTCCT GCCATCTGGA TTTAATAATT ACCCCCTTAC
TTTTGTTTTT GAGCAGAGGT GGGTAACGTT TAGGGTCTCT CTCTTCTCT TCCCTCCGTG ACCCTCCTAA
CTGGGGACGA GCGAACCTA AGGCCTGTCT TATATACCT CAATAGGAGA ACGATAACAT TCCGCCCTC
CCCCAGTTTC TTCAGCTTCC TCTCCTGGAG GGGGAAGAGC AGAAGAAAGC AAGGAAGGCA CAGGTTTTCT
TACTTTCTGC TCCATCGTCT CATCCTGCCC CGAGAGCTTC AAGTGCACAC TCACTGCACA TCTTTGTGAT
GCCCTACAAC

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GE100003, scramble sequence in pCas-Guide vector



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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_000267](#), [NM_001042492](#), [NM_001128147](#)

UniProt ID: [P21359](#)

Synonyms: NFNS; VRNF; WSS

Summary: This gene product appears to function as a negative regulator of the ras signal transduction pathway. Mutations in this gene have been linked to neurofibromatosis type 1, juvenile myelomonocytic leukemia and Watson syndrome. The mRNA for this gene is subject to RNA editing (CGA>UGA->Arg1306Term) resulting in premature translation termination. Alternatively spliced transcript variants encoding different isoforms have also been described for this gene. [provided by RefSeq, Jul 2008]

Product images:

