

Product datasheet for **KN202078**

IL6 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: IL6
Locus ID: 3569
Components: **KN202078G1**, IL6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGACCGCCGCTGGCAGTTCC
KN202078G2, IL6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTTCTCCACAAGTAAGTGC
KN202078D, 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

```
TGACTGGTAG TATTACCTTC TTCATAATCC CAGGCTTGGG GGGCTGCGAT GGAGTCAGAG GAAACTCAGT
TCAGAACATC TTTGGTTTTT ACAAATACAA ATTAAGTGA ACGCTAAATT CTAGCCTGTT AATCTGGTCA
CTGAAAAAAA ATTTTTTTTT TTTCAAAAAA CATAGCTTTA GCTTATTTTT TTTCTCTTTG TAAACTTTCG
TGCATGACTT CAGCTTTACT CTTTGTCAAG ACATGCCAAA GTGCTGAGTC ACTAATAAAA GAAAAAAGA
AAGTAAAGGA AGAGTGGTTC TGCTTCTTAG CGCTAGCCTC AATGACGACC TAAGCTGCAC TTTTCCCCT
AGTTGTGTCT TGCCATGCTA AAGGACGTCA CATTGCACAA TCTTAATAAG GTTTCCAATC AGCCCCACCC
GCTCTGGCCC CACCCTCACC CTCCAACAAA GATTTATCAA ATGTGGGATT TTCCCATGAG TCTCAATATT
AGAGTCTCAA CCCCCAATAA ATATAGGACT GGAGATGTCT GAGGCTCATT CTGCCCTCGA GCCCACCGGG
AACGAAAGAG AAGCTCTATC TCCCCTCCAG GAGCCCAGCT AGGCAGGCTC CCAGCTGTGC TGTGAGCTCA
CCCCTGCGCT CGCTCCCCTC CGGCACAGGC GCCTTCGGTC CAGTTGCCTT CTCCCTGGGG CTGCTCCTGG
TGTTGCCTGC TGCCTTCCT GCCCCAGTAC CCCCAGGAGA AGATTCCAAA GATGTAGCCG CCCCACACAG
ACAGCCACTC ACCTCTCAG AACGAATTGA CAAACAAATT CCGTACATCC TCGACGGCAT CTCAGCCCTG
AGAAAGGAGG TGGGTAGGCT TGGCGATGGG GTTGAAGGGC CCGGTGCGCA TGC GTTCCCC TTGCCCTGC
GTGTGGCCGG GGGCTGCCTG CATTAGGAGG TCTTTGCTGG GTTCTAGAGC ACTGTAGATT TGAGGCCAAC
GGGGCCGACT AGACTGACTT CTGTATTTAT CCTTTGCTGG TGTGAGGAAG TTCCTTTCCT TTCTGGAAAA
TGCAGAATGG GTCTGAAATC CATGCCACC TTTGGCATGA GCTGAGGGTT ATTGCTTCTC AGGGCTTCTT
TTCCCTTTC CAAAAATTA GGTCTGTGAA GCTCCTTTTT GTCCCCGGG CTTTGAAGG ACTAGAAAAA
TGCCACCTGA
```

GE100003, scramble sequence in pCas-Guide vector



[View online »](#)

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_000600](#), [NM_001318095](#)

UniProt ID: [P05231](#)

Synonyms: BSF-2; BSF2; CDF; HGF; HSF; IFN-beta-2; IFNB2; IL-6

Summary: This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2). [provided by RefSeq, Aug 2020]

Product images:

