

## Product datasheet for **KN204791**

### RBPJK (RBPJ) 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:** RBPJK  
**Locus ID:** 3516  
**Components:** **KN204791G1**, RBPJK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGGAAGCCCCGGGCAAACC  
**KN204791G2**, RBPJK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCACCGGGCATGGAACAGC  
**KN204791D**, 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**

```
GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT
GATAAATCTG GAGCCGGTGA GCGTGGTTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT GGTAAGCCCT
CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC AGATCGCTGA
GATAGGTGCC TCACTGATTA AGCATTGGTA ACTGTACAGC CAAGTTTACT CATATATACT TTAGATTGAT
TTAAAACCTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA TAATCTCATG ACCAAAATCC
CTTAACGTGA GTTTTCGTTC CACTGAGCGT CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC
TTTTTTCTG CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG
GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAAGTGGCT TCAGCAGAGC GCAGATACCA AATACTGTTC
TTCTAGTGTA GCCGTAGTTA GGCCACCACT TCAAGAAGCTC TGTAGCACCG CCTACATACC TCGCTCTGCT
AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC AAGACGATAG
TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGACACACA GCCCAGCTTG GAGCGAACGA
CCTACACCGA ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCGGGAA GAGAAAGGC
GGACAGGTAT CCGGTAAGCG GCAGGGTCCG AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC
TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTGTGA TGCTCGTCAG
GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCGGCCTT TTTACGGTTC CTGGCCTTTT GCTGGCCTTT
TGCTCACATG TTCTTCTCTG CGTTATCCCC TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT
GATACCGCTC GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA GAGCGCCCAA
TACGCAAACC GCCTCTCCCC GCGCGTTGGC CGATTTCATTA ATGCAGCTGG CACGACAGGT TTCCCAGCTG
GAAAGCGGGC AGTGAGCGCA ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTTACAC
TTTATGCTTC CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG
ACCATGATTA CGCCAAGCTC CTTCTCTTTC CAGCCCTTCC TCTTTCACAC TGAAGTACTG ACCTGCATAC
```



ACCTGTACCG GCAGCGACTT CCAACCTCCT GGCTTCCCCT TCCTCCGTTC GAGGCTCCCC ACCCCTCGTC  
 TTCCATCCAG CGTCACAGGG CGTGTGCGTG TTGTGTGCGA GACGCGGGTC TCCTCCCCCG CCGCCCTCCG  
 CCCCCTGCTC CCAGCCACGC GCCTTCCC GC CCGCCTCCG CGGCAAGCCG CTCCTTCC C ACCCCGCCG  
 CGCCCGCCGC CCGCCGCCG CCTCCCGGC ACGCGCTGCA CGAACGGCG CCGGAGCTGG TCTAGGCAAA  
 CACCTGTCTT GCCTTGGCTC CGCGAGATTT GGGGCGAAAG CTTAGGCAAC AGGGGCACGT TCTCGCGAGG  
 TTTAGGAAAT TTCCACGGC CGTGTGTGT CTGAGCCGAG TAGTGAAGG CGGTGGGAAG GAGGTGTAGC  
 GTGAGACTGG ACTGCCGCA TTGGGTACAT GCGCAGTGCC GCTCGCGCGG GCCCGCCAA TCCTGCAGCG  
 CCTTCAACAG GTTTCGGGCG GCGAATCCA GTTCTCCGGG TTTTGGGCT CCTCGCGGA GGCAGTGCTG  
 GATCTGGGAA TCTCTAGGAA AGGAAAGAGC AAAGGAGGGG AAAGACTAGC ATGGAGAGCG ACGAGAGCGG  
 CCTGCCCGCC ATGGAGATCG AGTGCCGCAT CACCGGCACC CTGAACGGCG TGGAGTTCGA GCTGGTGGG  
 GCGGAGAGG GCACCCCGA GCAGGGCCGC ATGACCAACA AGATGAAGAG CACCAAAGG GCCCTGACCT  
 TCAGCCCTA CTGCTGAGC CACGTGATGG GCTACGGCTT CTACCACTTC GGCACCTACC CCAGCGGCTA  
 CGAGAACCC TTCCTGCACG CCATCAACAA CGGCGGTAC ACCAACACC GCATCGAGAA GTACGAGGAC  
 GGGCGGTGC TGCACGTGAG CTTGAGCTAC CGCTACGAG CCGCCCGCT GATCGGCGAC TTCAAGGTGA  
 TGGGACCCG CTTCCTCGAG GACAGCGTGA TCTTACCGA CAAGATCATC CGCAGCAAC CCACCTGGA  
 GCACCTGCAC CCCATGGGCG ATAACGATCT GGATGGCAGC TTCACCCGCA CCTTCAGCCT GCGCGACGGC  
 GGCTACTACA GCTCCGTGGT GGACAGCCAC ATGCACTTCA AGAGCGCCAT CCACCCAGC ATCCTGCAGA  
 ACGGGGGCC CATGTTCCG TCCCGCCGCG TGGAGGAGGA TCACAGCAAC ACCGAGCTGG GCATCGTGA  
 GTACCAGCAC GCCTTCAAGA CCCCGGATGC AGATGCCGT GAAGAAAGAG TTTAAGAATT CCGATCATAT  
 TCAATAACCC TTAATATAAC TTCGTATAAT GTATGCTATA CGAAGTTATT AGGTCTGAAG AGGAGTTTAC  
 GTCCAGCAA GCTTAGGATC TCGACCTCGA AATTCTACCG GGTAGGGGAG GCGCTTTTCC CAAGGCAGTC  
 TGGAGCATGC GCTTAGCAG CCCCGCTGG CACTTGGCGC TACACAAGTG GCCTCTGGC TCGCACACAT  
 TCCACATCCA CCGTAGGCG CCAACCGACT CGTCTTTTG GTGGCCCTT CGCGCCACT TCTACTCTC  
 CCCTAGTCAG GAAGTTCGCC CCGCCCGC AGCTCGGTC GTGCAGGAC TGACAAATG AAGTAGCACG  
 TCTCACTAGT CTCGTGCAGA TGGACAGCAC CGCTGAGCAA TGGAAAGCGG TAGGCCTTTG GGGCAGCGG  
 CAATAGCAGC TTTGCTCCTT CGCTTTCTGG GCTCAGAGG TGGGAAGGG TGGTCCGGG GGGGGCTCA  
 GGGGCGGGCT CAGGGGCGGG GCGGGCGCC GAAGTCTC CGGAGGCCG GCATTCTGA CGCTTCAAAA  
 GCGCAGTCT GCCGCGTGT TCTCTCTTC CTCATCTCCG GGCTTTTGA CCTGCATCCA TCTAGATCTC  
 GAGCAGTGA AGCTTACCAT GACCGAGTAC AAGCCCACGG TGGCCTCGC CACCCGCGAC GACGTCCCA  
 GGGCCGTACG CACCCTCGCC GCCGCTTCC CCGACTACC CGCCACGCG CACACCGTC ATCCGGACCG  
 CCACATCGAG CGGGTCACCG AGCTGCAAGA ACTTCTCTC ACGCGGTCG GGCTCGACAT CGGCAAGGTG  
 TGGTCCGGG ACGACGGCG CCGGTGGCG GTCTGGACCA CGCCGGAGAG CGTCGAAGCG GGGGCGGTGT  
 TCGCCGAGAT CGGCCCGCG ATGGCCGAGT TGAGCGGTT CCGGCTGGC GCGCAGCAAC AGATGGAAGG  
 CCTCTGGCG CGCACCGGC CCAAGGAGCC CGCGTGGTT CTGGCCACC TCGGCGTCT GCCCGACCAC  
 CAGGGCAAGG GTCTGGGCG CGCCGCTGT CTCCCGGAG TGGAGGCGG CGAGCGCGC GGGGTGCCG  
 CCTTCTGGA GACCTCCGCG CCCACAACC TCCCCTTCTA CGAGCGGCTC GGCTTACC GTCACCCCGA  
 CGTCGAGGTG CCCGAAGGAC CGCGCACCTG GTGCATGACC CGCAAGCCG GTGCCTGAC CCCGCCAC  
 GACCCGACG GCCCGACCGA AAGGAGCGCA CGACCCATG CATCGATGAT ATCAGATCCC CGGGATGCG  
 AAATTGATGA TCTATTAAC AATAAAGATG TCCACTAAA TGGAAATTT TCCTGCATA CTTTGTAAAG  
 AAGGGTGAGA ACAGAGTACC TACATTTTGA ATGGAAGGAT TGGAGTACG GGGGTGGGG TGGGTGGGA  
 TTAGATAAAT GCCTGCTCT TACTGAAGGC TCTTACTAT TGCTTTATGA TAATGTTTCA TAGTTGATA  
 TCATAATTA AACAAGCAA ACCAAATTAA GGGCCAGCTC ATTCCTCCA CTCATGATCT ATAGATCTAT  
 AGATCTCTCG TGGATCATT GTTTTTCTCT TGATTCCAC TTTGTGGTTC TAAGTACTGT GGTTCACAA  
 TGTGTCAGTT TCATAGCCTG AAGAACGAGA TCAGCAGCCT CTGTTCCACA TACACTTCAT TCTCAGTATT  
 GTTTTGCAA GTTCTAATC CATCAGAAGC TGGTCGAGAT CCGGAACCCT TAATATAACT TCGTATAATG  
 TATGCTATAC GAAGTTATTA GGTCCCTCGA AGAGTTTAC TAGGCGCGC TCGGCTGTG CAGGCCCTCG  
 GGTGGCCCG TTCCCTGTG AGTAGTGGT TCAACACACA CCTGGGCTCA CACACGGTGG TGGCTGCGAT  
 GGGGTCTTAG AGAGCCATG CAGCACGCGA GCGGCAAGAG CTTTGATCGG GTCCTCTGG CAGACTCGGA  
 GGTGGGAGAA TGTGGCTCT AATTCCAAG CAGTTTTCC TCTGGAGAG AACTACTCCG CGCTCTGGCG  
 TGTGTCTGCG AGGTGGCCAT TAGGGGTGTC TTTGCTAGAG GCCTTGGCTT GACCTCATTT CACACCAAG  
 GAGAACGCTA AGGCGAGAGA GCTCAACTGC AAAAGTTTT CGCTTGAGGA GCTCTGGAAG GGCCTCTCA  
 TTAGCATGGG GGGGTGTAAT GAATGAAGAC AGTCCCGAC GTGTCCTTG CCCGAACCC AGACATCTCT

GCGCTCCTG CACCAAACGC CGAGATTAGC ATAAAGGAGG CGCCCAGGGA ACGTTTGAAT GAATGAAAAT  
 AGCTGGGAAC CCAGAGTGAG CGGGAAGCCG CTTGGAAAAA ACCCATTGAG GAGGTGTTTC ATCTAGGCCT  
 GTGAAACGCA GCCCATTTC AGCAACTGGC AGGTACTGAC TGACTGGAAA GTCCTCTCCA CTGACTGTAG  
 CCTCCAATTC ACTGGCCGTC GTTTTACAAC GTCGTGACTG GGAAAACCCT GGC GTTACCC AACTTAATCG  
 CCTTGAGCA CATCCCCCTT TCGCCAGCTG GCGTAATAGC GAAGAGGCC GCACCGATCG CCCTCCCAA  
 CAGTTGCGCA GCCTGAATGG CGAATGGCGC CTGATGCGGT ATTTTCTCCT TACGCATCTG TGGGTATTT  
 CACACCGCAT ACGTCAAAGC AACCATAGTA CGCGCCCTGT AGCGGCGCAT TAAGCGCGG GGGTGTGGTG  
 GTTACGCGCA GCGTGACCGC TACACTTGCC AGCGCCCTAG CGCCCGCTCC TTTCGCTTTC TTCCCTTCT  
 TTCTCGCCAC GTTCGCCGGC TTTCCCGTC AAGCTCTAAA TCGGGGGCTC CCTTTAGGGT TCCGATTAG  
 TGCTTTACGG CACCTCGACC CCAAAAAACT TGATTTGGGT GATGGTTCAC GTAGTGGGCC ATCGCCCTGA  
 TAGACGGTTT TTCGCCCTTT GACGTTGGAG TCCACGTTCT TTAATAGTGG ACTCTTGTTT CAAACTGGAA  
 CAACACTCAA CCCTATCTCG GGCTATTCTT TTGATTATA AGGGATTTTG CCGATTCGG CCTATTGGTT  
 AAAAAATGAG CTGATTTAAC AAAAAATTA CGCGAATTTT AACAAAATAT TAACGTTTAC AATTTTATGG  
 TGACTCTCA GTACAATCTG CTCTGATGCC GCATAGTTAA GCCAGCCCG ACACCCGCCA ACACCCGCTG  
 ACGCGCCCTG ACGGGCTTGT CTGCTCCCG CATCCGCTTA CAGACAAGCT GTGACCGTCA ACGGGAGCTG  
 CATGTGTGAG AGTTTTTAC CGTCATCACC GAAACGCGCG ACCCGAAAG GCCTCGTGAT ACGCCTATTT  
 TTATAGTTA ATGTCATGAT AATAATGGTT TCTTAGACGT CAGGTGGCAC TTTTCGGGA AATGTGCGCG  
 GAACCCCTAT TTGTTTATTT TTCTAAATAC ATTCAAATAT GTATCCGCTC ATGAGACAAT AACCCGATA  
 AATGCTTCAA TAATATTGAA AAAGGAAGAG TATGAGTATT CAACATTTCC GTGTCGCCCT TATTCCCTTT  
 TTTGCGGCAT TTTGCCTTCC TGTTTTTGT CACCCAGAAA CGCTGGTGAA AGTAAAAGAT GCTGAAGATC  
 AGTTGGGTGC ACGAGTGGT TACATCGAAC TGGATCTCAA CAGCGGTAAG ATCCTTGAGA GTTTTCGCC  
 CGAAGAAGT TTTCCAATGA TGAGCACTT TAAAGTTCTG CTATGTGGCG CGGTATTATC CCGTATTGAC  
 GCCGGGCAAG AGCAACTCGG TCGCCGATA CACTATTCTC AGAATGACTT GGTGAGTAC TCACCGATCA  
 CAGAAAAGCA TCTTACGGAT GGCATGACAG TAAGAGAATT ATGCAGTGCT GCCATAACCA TGAGTGATAA  
 CACTGCGGCC AACTTACTT TGACAACGAT CGGAGGACCG AAGGAGCTAA CCGCTTTTTT GCACAACATG  
 GGGGATCATG TAACTCGCCT T

**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\\_005349](#), [NM\\_015874](#), [NM\\_203283](#), [NM\\_203284](#), [NM\\_001363577](#)

**UniProt ID:**

[Q06330](#)

**Synonyms:**

AOS3; CBF1; csl; IGKJRB; IGKJRB1; KBF2; RBP-J; RBPJK; RBPSUH; SUH

**Summary:**

The protein encoded by this gene is a transcriptional regulator important in the Notch signaling pathway. The encoded protein acts as a repressor when not bound to Notch proteins and an activator when bound to Notch proteins. It is thought to function by recruiting chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins to Notch signaling pathway genes. Several transcript variants encoding different isoforms have been found for this gene, and several pseudogenes of this gene exist on chromosome 9. [provided by RefSeq, Oct 2013]

Product images:

