

Product datasheet for **KN211925**

Jagged 2 (JAG2) 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: Jagged 2
Locus ID: 3714
Components: **KN211925G1**, Jagged 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGGCCGGGGGCGCCTTCCC
KN211925G2, Jagged 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCGCCGGGGAAGGCGCCCC
KN211925D, 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**

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CGCCAACACC CGCTGACGCG CCCTGACGGG CTTGTCTGCT CCCGGCATCC GCTTACAGAC AAGCTGTGAC
CGTCTCCGGG AGCTGCATGT GTCAGAGGTT TTCACCGTCA TCACCGAAAC GCGCGAGGCA GCTGCGGTAA
AGTCATCAG CGTGGTCGTG AAGCGATTCA CAGATGTCTG CCTGTTTCATC CGCGTCCAGC TCGTTGAGTT
TCTCCAGAAG CGTAAATGTC TGGCTTCTGA TAAAGCGGGC CATGTTAAGG GCGGTTTTTTT CCTGTTTGGT
CACTGATGCC TCCGTGTAAG GGGGATTTCT GTTCATGGGG GTAATGATAC CGATGAAACG AGAGAGGATG
CTCACGATAC GGGTTACTGA TGATGAACAT GCCCGGTTAC TGAACGTTG TGAGGGTAAA CAACTGGCGG
TATGGATGCG GCGGGACCAG AGAAAAATCA CTCAGGGTCA ATGCCAGCGC TTCGTTAATA CAGATGTAGG
TGTTCCACAG GGTAGCCAGC AGCATCCTGC GATGCAGATC CGGAACATAA TGGTGCAGGG CGTGACTTTC
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GGTCGACGCT CTCCCTTATG CGACTCCTGC ATTAGGAAGC AGCCAGTAG TAGGTTGAGG CCGTTGAGCA
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CCGCCGCCG AAGGAATGGT GCATGCAAGG AGATGGCGCC CAACAGTCCC CCGGCCACGG GGCCTGCCAC
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 TGGGCGGCGG CCAAAGCGGT CGGACAGTGC TCCGAGAACG GGTGCGCATA GAAATTGCAT CAACGCATAT
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CAGCCTCTGT **TCCACATACA** **CTTCATTCTC** **AGTATTGTTT** **TGCCAAGTTC** **TAATTCCATC** **AGAAGCTGGT**
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ACGACGAGCG TGACACCAG ATGCCTGCAG CAATGGCAAC AACGTTGCGC AAATAATTAA CTGGCGAACT
ACTTACTCTA GTTTCCCGC AACAATTAAT AGACTGGATG GAGGCGGATA AAGTTGAGG ACCACTTCTG
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GACCAAGTTT ACTCATATAT ACTTTAGATT GATTTAAAC TTCATTTTTA ATTTAAAAG ATCTAGGTGA
AGATCCTTTT TGATAATCTC ATGACCAAAA TCCCTTAACG TGAGTTTTCG TTCCACTGAG CGTCAGACCC
CGTAGAAAAG ATCAAAGGAT CTTCTTGAGA TCCTTTTTTT CTGCGCGTAA TCTGCTGCTT GCAAACAAA
AAACCACCGC TACCAGCGGT GGTGTTGTTG CCGGATCAAG AGCTACCAAC TCTTTTTCCG AAGGTAACCTG
GCTTCAGCAG AGCGCAGATA CCAAATACTG TCCTTCTAGT GTAGCCGTAG TTAGGCCACC ACTTCAAGAA
CTCTGTAGCA CCGCCTACAT ACCTCGCTCT GCTAATCCTG TTACCAGTGG CTGCTGCCAG TGGCGATAAG
TCGTGTCTTA CCGGTTGGA CTAAGACGA TAGTTACCGG ATAAGGCGCA GCGGTGCGG TGAACGGGGG
GTTCTGTGAC ACAGCCAGC TTGGAGCGAA CGACCTACAC CGAACTGAGA TACCTACAGC GTGAGCTATG
AGAAAGCGCC ACGCTTCCCG AAGGGAGAAA GGCGGACAGG TATCCGGTAA GCGGCAGGGT CGGAACAGGA
GAGCGCACGA GGGAGCTTCC AGGGGAAAC GCCTGGTATC TTTATAGTCC TGTCGGGTTT CGCCACCTCT
GACTTGAGCG TCGATTTTTG TGATGCTCGT CAGGGGGGCG GAGCCTATGG AAAAACGCCA GCAACGCGGC
CTTTTTACGG TTCCTGGCCT TTTGCTGGCC TTTTGCTCAC ATGTTCTTTC CTGCGTTATC CCCTGATTCT
GTGGATAACC GTATTACCGC CTTTGA

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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_002226](#), [NM_145159](#)

UniProt ID:

[Q9Y219](#)

Synonyms:

HJ2; SER2

Summary:

The Notch signaling pathway is an intercellular signaling mechanism that is essential for proper embryonic development. Members of the Notch gene family encode transmembrane receptors that are critical for various cell fate decisions. The protein encoded by this gene is one of several ligands that activate Notch and related receptors. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:

