

Product datasheet for **KN200004RB**

Junctional Adhesion Molecule 1 (F11R) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Junctional Adhesion Molecule 1
Locus ID:	50848
Components:	KN200004G1 , Junctional Adhesion Molecule 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACCGATTCTCCCGAAACTC KN200004G2 , Junctional Adhesion Molecule 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACAAAGGCGCAAGTCGAG KN200004RBD , donor DNA containing left and right homologous arms and RFP-BSD functional cassette.

Homologous arm and RFP-BSD sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **RFP-BSD in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCGT GTTGAGATCC AGTTTCGATG
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGTTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGTAACGC CAGGGTTTTT CCAGTACGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA
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TAACTGCCCG TTATTCATGC GACACTCTCC CCTACCCTCC CATATTAATA TTTGTTTTTT ACTTGCCAAG
 AGGCAGGACC AAAGTTTCTG CAGGACCAAA CTGCAGGTGC AGTTGCACCA AGCAACTTAC ATTCAAACAA
 ACACAAAACC CCAAGCCAAG CCGGTCTCCG TAAATCCCAC ACCACGACTG CCTTTCCTAC TTCCTCCTTA
 GAGGTACTTC TCAGCCCTCT AGCTCCAAC T GAGAACCAG CCAGTCAGGA AGTCGCTACT TCGGGAACAC
 CAACCAATCA GGGGCGCGTC ACCTGTGAA GGTGCGGAAT TCGTCTCCTG ACGCGACAGT CTCCTGGGCC
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 CGGTCTTGA AGAAAATCAA ATGGAGGTGG TCTGGGTTGG AAGTCTCTTC CCCTAGCTTT TGCTGAAGGA
 GTCTCTGGCT CTCTGAATC TTTGAATTGC GGCGGTTGCT CTGGGAAAAT GTCTGGGTGC ACAGTCTAAA
 GAGGAAATGC AATAGAAACC TGAATTTCT CTAAGCGCAG CAGAGGTTCC AGCGAAGTTC CTTTATGGAA
 TAACTACCTC AGGAGTCCTT AATACGTGTT GTTGATCACT CTCGCCGTT GGACTTTAGA TCAGAAGGGA
 TCTTGCTGCC GCCCGAAAGA GGAAGGGCTG GAAGAGGAAG GAGCTTGGCG TAATCATGGT CATAGCTGTT
 TCCTGTGTGA AATTGTTATC CGCTCACAA TCCACACAAC ATACGAGCCG GAAGCATAAA GTGTAAAGCC
 TGGGGTGCCCT AATGAGTGAG CTAACTCACA TTAATTGCGT TGCGCTACT GCCCGCTTTC CAGTCGGGAA
 ACCTGTCTGTG CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTCGCGTA TTGGGCGCTC
 TTCCGCTTCC TCGCTCACTG ACTCGTGGC CTCGGTCTGT CGGCTGCGGC GAGCGGTATC AGCTCACTCA
 AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG CAGGAAAGAA CATGTGAGCA AAAGGCCAGC
 AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT TTTCCATAGG CTCCGCCCC CTGACGAGCA
 TCACAAAAT CGACGCTCAA GTCAGAGGTG GCGAAACCCG ACAGGACTAT AAAGATACCA GGCGTTTCCC
 CCTGGAAGCT CCCTCGTGCG CTCTCCTGTT CCGACCCTGC CGCTTACCGG ATACCTGTCC GCCTTCTCC
 CTTGCGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG GTATCTCAGT TCGGTGTAGG TCGTTCGCTC
 CAAGCTGGGC TGTGTGCACG AACCCCGT TCAGCCCGAC CGCTGCGCCT TATCCGTAA CTATCGTCTT
 GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG TAACAGGATT AGCAGAGCGA
 GGTATGTAGG CGGTGCTACA GAGTCTTGA AGTGGTGGCC TAACTACGGC TACACTAGAA GAACAGTATT
 TGGTATCTGC GCTCTGCTGA AGCCAGTTAC CTTCGGAAA AGAGTTGGTA GCTCTTGATC CGGCAAACAA
 ACCACCGCTG GTAGCGGTGG TTTTTTTGTT TGCAAGCAGC AGATTACGCG CAGAAAAAAA GGATCTCAAG
 AAGATCCTTT GATCTTTTCT ACGGGGTCTG ACGCTCAGTG GAACGAAAAC TCACGTAAAG GGATTTTGGT
 CATGAGATTA TCAAAAAGGA TCTTACCTA GATCCTTTTA AATTAATAA GAAGTTTTAA ATCAATCTAA
 AGTATATATG AGTAAACTTG GTCTGACAGT TACCAATGCT TAATCAGTGA GGCACCTATC TCAGCGATCT
 GTCTATTTTC TTCATCCATA GTTGCCTGAC TCCCGTCTGT GTAGATAACT ACGATACGGG AGGGCTTACC
 ATCTGGCCCC AGTGCTGCAA TGATACCGCG AGAACACGC TCACCGGCTC CAGATTTATC AGCAATAAAC
 CAGCCAGCCG GAAGGGCCGA GCGCAGAAGT GGTCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT
 GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC GTTGTGGCCA TTGCTACAGG
 CATCGTGTG TCACGCTCGT CGTTTGTGAT GGCTTCATTC AGCTCCGTT CCAACGATC

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_016946](#), [NM_144501](#), [NM_144502](#), [NM_144503](#), [NM_144504](#), [NM_001348091](#)

UniProt ID:

[Q9Y624](#)

Synonyms: CD321; JAM; JAM1; JAMA; JCAM; KAT; PAM-1

Summary: Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is an important regulator of tight junction assembly in epithelia. In addition, the encoded protein can act as (1) a receptor for reovirus, (2) a ligand for the integrin LFA1, involved in leukocyte transmigration, and (3) a platelet receptor. Multiple 5' alternatively spliced variants, encoding the same protein, have been identified but their biological validity has not been established. [provided by RefSeq, Jul 2008]

Product images:

