

Product datasheet for **KN203818**

Integrin beta 1 (ITGB1) 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:	Integrin beta 1
Locus ID:	3688
Components:	<p>KN203818G1, Integrin beta 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCTGTGTGTTTGCTCAAAC</p> <p>KN203818G2, Integrin beta 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTACAACCAATTTTCTGGAT</p> <p>KN203818D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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CTGGCAGAAG TTGATTTTCT TAAAAAAGAG AGATAATAGG AAAACAAGCT CAAAAATCTA TTTGGGGCCT
TATGCAGGAT GTTGGCCTTA GCCTGAAGAA ATAAAAACTG ATGAAGCGCA TTGTTAGCAG AGGGATGACT
TGATCAGGTT TTTGAAAACG AATGTTTCAGC ATTGAGGTAA CTGAGGCATC TGGATATGCT GGTCTGGGCC
CCTGGGAGCC GCAGGAGATA ATGGAGATAG AGATTCTATG GGCTGAGACC ATTGGTAGGT TTTATGGTGT
TGAGGAATAC TTAACACTGA TTTTTTTTTT GAGCGCTGTT AATTAATGT TAAAATATA TCGGTTTGCT
TTAGAGAAAG GCACGAATGG ATTCTGGGGC TCTGGTATGG AAGTTATTTT CGCAGTGTAG GTGCAAGGTG
AGGGAACCAG ATAGGGAGGG GAGATGGGCG AGGGTCTGTG GAGAGGGGCT GGAGTAAAT GGTGAGAG
CCATCATGTT TATAAAAGCA ATAGAAGGTA CCGTGGGGTA ATACTTTCTA TTAAATGCAT TTTTCATTTT
ATTTCTTTAT AACTAATATA AGGCACATTT TACATTTTCTG TGAGAACCTA AGTCATAATC ATGCTGCTCC
TTCTGGAAGC CCTGCAATTG TTCCTCTTAC TCAGAGAAAG GTCAAGTTCC TTCATGGTCA GGCTCCCCTC
ACCCCTGCCA CCTGGGATGA TGGGAGGCAA GTTGGCTGGT GAAGTACTAA AATGCTAGGG ATTGAACACA
CTGCAAGAAG ATCTTTTGAG AACATGAGAG TGTGTAAGTG AACAGAAGGC AAAAGCAAGT ATATTTAGAA
GCAAATGAAA TAAATGTGTA GAATGGAGGA TTATGAACTG TCCATTATTA TCTGCAAAGA CTTTCTAGAA
GACATTCTCA CTCTTTGATA AAAAAGTCTC ACAAATGTT GGCATCATCT AGGAAAGCAG TGAAAATAAA
GCTGAAAATG TATTTAACC TCTATAAAG ATGTGGCTCC ACATCTGGAA TAATGGATAC GCAGTTCTGT
CCTCTGAATC TTGAAAAACT ACACTGCATA GAGCAGTTCG ATATCAGGAT TGAAGGACT TACTACAAGT
AGTAAAAATG AAGCAGGAGA CCGTAAAAGA AAGTATTGAT AAGTTAGTTA CATAAAATCA GTAATAACAA
AAACATTCTG

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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_002211](#), [NM_033666](#), [NM_033667](#), [NM_033668](#), [NM_033669](#), [NM_133376](#)

UniProt ID:

[P05556](#)

Synonyms:

CD29; FNRB; GPIIA; MDF2; MSK12; VLA-BETA; VLAB

Summary:

Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:
