

Product datasheet for **KN309859RB**

Mcam Mouse 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:	Mcam
Locus ID:	84004
Components:	<p>KN309859G1, Mcam gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCCCCGACCTGGTGGAGGCA</p> <p>KN309859G2, Mcam gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGTGGCCCCCTCACGGGCCTC</p> <p>KN309859RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p>

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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CTGACGTAC TCCTGCCAC TCTCTGTTT TTGACCTAAC CCTTGGCGGA GACTGACCCC TCTAGACTTG
GATGGGGTCT TCAGATTGTA TTGCAGCGTT TCTTGACATG CTA CTGTGGG AACATAAATC ATAGCCTCTG
GCTAGAGTTG GCTCACTGTG TCTTCCAGAG GATTTGGGGG ACAGAGGGTA GAATAGTGAC GTCTTCGTGG
AGGGGGGGCA CACAAAGGGG CCTGTGTGCC CCAGCCTGGC ACATGCCTTA CATTCCCCTA GTCTGAGCTC
ACCAGACTA GGAAGGGGCC CAGGAGCAA GGGGCCCTCA TCTTGGCCCA GAGCCCATGT TGCTCTTATC
TGTCTCTCCA CCAGCTTCTT CTAAGATATA CCCAGTCACT CTGTCTGTGT TTCACTCCGT ATTACTCTGG
GAGAGGTCTG ACCCAGGTTG GGGGTGTGGG CTTGGTGAAG TTGAGGGTAA GGAGAGGGTA AGGCCCTCCC
CAGACCCTTC AAGTGGGACA GCTGCAGTGA ACCAGGAGAG GGGAGGGGAC CGGACAGAAC ACCTGGAGCT
GACAAAGCTG CCTGGGCATG CCCCTCTCTT TCCCCAGGTG CAACTTCAGC CAAGTGGACT GGTTTTTGGT
GAGCGCCTGG ACTTTGGAGG GCAGTAGTTG TGTGGGAAGC AACTGTCTCT CTGGCAGGTA GCTCATCTCT
CAGCTCCTTT CCCTCAGATT CACAAGGAGA GGCAGATACT GATTTTCCGT GTGCACCAAG GCAAGGGCCA
GCGGGAACCT GGTGAATATG AGCACCCTC TAGCCTCAA GACTCGGTGG CTA CTCTGGC CCTGAGTCAC
GTCACCTCCC ATGATGAGCG AATGTTCTG TGTAAGAGCA AGCGACCACG GCTCCAGGAT CACTACGTTG
AGCTTCAGGT CTTCAGTGAG TGCCCCCTC GTTTCTGCCT TCAGGGTCGT GTGGACCATG TAGCAAGAT
GGGTCTCCAT GTCCTGTTC ATTCCCCTTC CACTGTAGAA GCCCCAGAGG AACCAACTAT TCAAGCCAAT
GTCGTGGGCA TCCATGTGGA CAGGCAAGAG CTCAGGGAGG TGAGAGGCAC TCGGTCAAAT GATGGTGGAT
AGAGGCTAAG CAGGGACGGG GGTGGGGGGG GGTGGTATGT GGCAGACGCA AGGAGACTCT CGTCTGTCC
TCCTTAGGTT

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GE100003, scramble sequence in pCas-Guide vector



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RefSeq: [NM_023061](#), [NM_001359530](#)

UniProt ID: [Q8R2Y2](#)

Synonyms: 1-gicerin; AV025631; CD146; CD149; Muc18; s-endo; s-gicerin

Summary: Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

