

Product datasheet for **KN309859**

Mcam Mouse 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:	Mcam
Locus ID:	84004
Components:	<p>KN309859G1, Mcam gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAACATAAAGAACTCACCCG</p> <p>KN309859G2, Mcam gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGATCTCCGGTACTCAGG</p> <p>KN309859D, 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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AAGGCACCGT TTCCAACCT CCCGCCCT TGCAGGCACC CCTAGGTCTG TGGGACCTGG CACAGTTCTT
CCTCCAAGGC TGCCAGGCCA GCGAAGACTC TGGAACAGTG CCAAGCCGGC AGCCGCCGCA GTGAAGCGGT
CATTCCAGAA GGCAGCCAGG GCCAGTCCA TGCCTCCACA GCAGGGTAGA GGAACCTGAC TGAGAGTCCT
CTATCAGGGA TACCTCTCTG TTGCTCCTCT GCTAGAGGGT CCCCCTAGT AGTGGACAAA CCTGAGCGAG
CGCTGCTACT GCGTCCAAGA GTCTACAGCG ACCGGGCCAG CTCTGCCGC CTCGGCCAGT CATTGAGCC
CCAGGACACC TGTCATTGCT CTTCAACCT TTCCAAGCCA GAAAACGGGA GTTAGCCTCT AGGCCTGGAT
CGGGGAGCAG CAGCTCGCAG CCAGCGCGCC GGGGGCCCGC CCCCTAGGGC GCGGGGAGGG GGCGGGGGGC
TACGCGGGGC GGGGCCGGGC GGCGCCGGG GTCCCCTCCC CCGCCCCCT GACGTACAGC CCCGACAGCG
GCGAGTTCCT CACTTGGCTC GCGCCCTCCG TCGGGGAAGC TCGGGGCTCT GCACCCAGT GGGCGTCTCT
TCTTGCCAGA GTCCCCGATT TCCAGGCGCC CCGCGTGCCT GCAACTTCTT TGCGGGTGTG CAGCCTAGGT
TTTAGAGTAT TCTGGGAACG GACTAGTCGG GTTGCTGCAG CAGCGAGCGG GAAGGGGTGG GGCCGAGCTT
CTGCAGGACG CTGGGCCCGG CCTCCCGCAG GTGTTTCGCT TGGGTGCTGG ATGCTGGGTG CTGGAGTCCC
GGCAGAGAGG CGCAGCCGGG GCGCATCCCC AACCCGTGCA TCCCGCGCCC GCCTGTTGCT GGAAAAGGCA
GTTTCCCTAG CTGGAGGGGG CCGCCGACCC CTCCCCTCC GCCTGGGCCT CACGCCAGTT TGGAGGTGAG
CGAGGGAGGA GGCCGCTCCT GCTGGGGCTG GCGGTTGGCA AGGGCAGCGG GTGGTGTGGG TCTCCTTGGC
CCTCCGGGTT TGACGGGATT ACAGGGGAAA GACAACAGAT GGAGAAGTTC TACAACAGTA ACAGCTTCTG
TGGTCCACTA GAGTCAGGTG GAGAGAGCCT GGCACCTCGG AGCTTTCCTT TAAGCCATCG AGTAGACATG
CTTTCCTGGG
```

GE100003, scramble sequence in pCas-Guide vector



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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_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:
