

Product datasheet for **MR210799**

Cd177 (NM_026862) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd177 (NM_026862) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd177
Synonyms:	1190003K14Rik; Pdp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210799 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTCATACCAGTCTGACCCCTTCTGGGGTTCACGGCCTTGCTACCCTGTGTCCAGCTCTGACCT
 GCCAGAAAAGCAGCGCACAGGCTGTGAGGAATGTGGCAGAGCTGCCCTCAGGTGGTGGGAGCTGGTGA
 GAAAACCTGCGAGGTTAGCGAGGTTGCCAAGACTTGATAATGCTCCTGTATAATGGACCAAGGTCAAC
 TTGGTGATCATCAAGGGCTGCACCGAGGTTGAGGACCAAGAGCCGAAGGTGATCTGGCTCAGGACAGGCC
 CTGGGCTCTCTGTGGTGTCTACACCCGTGTGTGCGCCATGGTGACCTCTGCAATGATGTGAACAGCAC
 TAAGATCCTTGAGGAGCTACCTACACCCACAGTCCAGGGTCCCTGCGCTGCCACTCTGCCTTTCTAAT
 GACAGCTGTGAGAATGCACCGGAGCAGGCTGCCCTGTGGGAAGCACACTGCTACGATGGAGTCTCA
 GGCTCAGGGGAGATGGCATCAGGACCAATCTCAAGGTGCAGGGCTGCATGGCCAGCCAGACTGCAACCT
 GCTTAATGGCACCCAGGCGATTGGACCTTGATATGAGCGAAAAGTGTGATCTTATAGGTTCCACAGGCT
 CTGGATTGCAATAGTGGGAGCTTGAAAAGTGTGAGGAATGTATCAGATCTGCACTTGAGCTGGACGACTG
 GCTGGCAAACCTGTGAGGCTGGCGAGGGGTGTTATGAAACAGTGTGCTAATACAAAATGGACATGAATT
 TCACATGGTTCTCACTAAGGGATGTACTAGGGATATGAACAAAAGGCTCGGCTCACCAGGCATAGAACA
 GGCCAGGGATCTCCATCGTCTCCTACGTGCATGTGTGCCGCGACAGGGACTTCTGTAATGACCTGTCTA
 CAACAGACCCCTTTTGGACCCCGCCCCGACACAGAGCTAGGGACCCTGCGCTGCCGACACTGCCTTTC
 AACCGGACAGTGTGTGAGTGCATCCGAGCTGGTCTGCCCCGAGGAGCACACTGCTACAGTGGAGTC
 CTCAGCCTCAGGGGAGGAGGGGTCATTTCTGATCTGAAGGTACAGGGATGCATATCGCAGTCCCAGCCAG
 GATGCAACCTGCTCAACGGTACCCAGACAATCGGACCCGTGGATGTGCGTGAGGACTGCGGTCTTCAGTT
 AGATGCTCTGAAATGCCAGCATGGGACGCTGAAGACCATCCAGGATATATCGAAGCTGCCTCTCCAGTGG
 ACGGCTGGCCAGAAAATCTGTAATGTGGGTGAAGGCTGCCAAGACACACTGATGTTGATAGAGAACGGAG
 AGCAGGTGAACCTGGTTCTCACGAAAGGCTGCACTACCGCAAAGGACCAAGAGGCCAAAAGTACGGAGCA
 CAGAACTGGACCAGGGCTGTCTGTACCTCCTACACCCGAGTGTGCCGTAAGAAAGACTTCTGCAATGAC
 CTGTCTACCACAGCCCTCTCTGGGCTCCACCTCCAGTGACAGCCCCAGGGACCACTCGCTGCCCTCTCT
 GCTTTTCTGAACAAGCCTGTGAGAATGCACCGGAGCAGGCTGCCCTGCAGGCAGCACACTGCTACAG
 TGGAGTCTCAGCCTCAGGGGAGGAGGGATCATCTCTGATCTGAAGGTGCAGGGCTGTATGTCCCAGCCA
 GGATGCAACCTGCTCAACGGTACCCAGACAATCGGACCCGTGGATGTGAGCGAGCGCTGCAGTCTCCGT
 CAGAAACAACAGAGTTGTCTGTACAGGGGTGTGATGTTTGGCTTGGCAATGGCTTTCGCGAGGAACC
 TGTCAAGTGGACGGCACCAGGGTCTCAGGTGTGTGCACCTGATGAGATTTGTCAAGAGACGCTGCTGCTC
 ATAGACGTAGGACAAAATCAGCCTTCCCTGGGGAGTAAAGGCTGCAGCAGTCTGGGGCGCAGGACAATA
 TTGGTGTCTCCATATTCTCCCGGCTCCCTGGGATGCTGGTAGTTCCTATACCAAATTCTGTTCTTCCCA
 CCTGTGCAATGGAGCCGACAGCAGCAGTGTCTTCTAAGCATCTCCCTCGTCCAGATGTTCTCCCCCA
 GGAGATGTGCAAGTGGCCCATGTGTGTAGAGTATTTGGATCCTGCAAGAGCACTGACTCTGTCACCTGCC
 CTAGGGGTGCCACTCACTGTTATAAAGGTGACATTGCACTACAGGGAGGTGGACTGACTACCAGAGTGAG
 CATTGAGGGGTGCATGGCCCCACCTATCAAACCTTTACTGGGTGACTCCAAAACAATCGGTATCTTCTCG
 GCAGAGGAGAGCTCTAACTATCGACATGAGGATGATGTTACCTCGGCCCTTCCCTGGCCTGGACCTTAC
 GGCTATCGGCCTGGATGTTAGGGCTATCGGCTCTTCTCAGCTCTTTGTATGCTGGGATCTGTCTCTCTG
 C

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210799 protein sequence

Red=Cloning site Green=Tags(s)

MNSIPVL TLLGVTALLPCVPALTCQKSSAQAVRNVAELPLRWWGAGEKTCEVSEGCQDLIMLLYNGPKVN
LVIIKGCTEVEDQEPKVIWLRTGPGLSVVSYTRVCRHGDLNDVNSTKILEELPTPTVPGSLRCPLCLSN
DSCENAPEQVCPVGSTHCYDGLRLRGDGIRTNLKVQGCMAQPCNLLNGTQAIGTLYMSENCDLIGPQA
LDCNSGSLETVRNVSDLHL SWTTGWQTCEAGEGCYETVMLIQNGHEFHMVLTKGCTRDMNKKARL TRHRT
GPGISIVSYVHVCRRDFCNDLSTTDPLWTPPDTELGLRCRHCLSTGSCVSASELVCPAGSTHCYSGV
LSLRGGGVISDLKVQGCISQSQPGCNLLNGTQTIGPVDVREDCGLQLDALKCQHGTLKTIQDISKLPLQW
TAGQKICNVGEGCQDTLMLIENGEQVNLVLTGCTTAKDQEAKVTEHRTGPGLSVTSYTRVCRKKDFCND
LSTTAPLWAPPVTPAGTTTRCPLCFSEQACENAPEQVCPAGSTHCYSGVLSLRGGGIISDLKVQGCMSQP
GCNLLNGTQTIGPVDVSERCSPSETTELSCYRGVMFELGNGFAEEPVKWTAPGSQVCAPDEICQETLLL
IDVGQKSAFLGSKGCSSPGAQDNIGVSIFSRPLGMLVASYTKFCSSHL CNGADSSSVLLSILPRPDVPPP
GDVQCPMCVELFGSCKSTDSVTCPRGATHCYKGDIALQGGGLTTRVSIQGCMAPIKPLLGDSKTIGIFS
AEESSNYRHEDDVT SAPSLAWTLRLSAWMLGLSALLSSLYAGICPLC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_026862

ORF Size: 2454 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_026862.3](#), [NP_081138.2](#)

RefSeq Size: 2733 bp

RefSeq ORF: 2454 bp

Locus ID: 68891

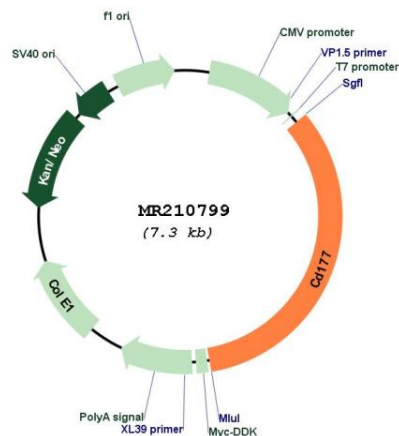
UniProt ID: [Q8R2S8](#)

Cytogenetics: 7 A3

MW: 87.1 kDa

Gene Summary: In association with beta-2 integrin heterodimer ITGAM/CD11b and ITGB2/CD18, mediates activation of TNF-alpha primed neutrophils including degranulation and superoxide production (By similarity). In addition, by preventing beta-2 integrin internalization and attenuating chemokine signaling favors adhesion over migration (By similarity). Heterophilic interaction with PECAM1 on endothelial cells plays a role in neutrophil transendothelial migration in vitro (By similarity). However, appears to be dispensable for neutrophil recruitment caused by bacterial infection in vivo (PubMed:25359465). Acts as a receptor for the mature form of protease PRTN3 allowing its display at the cell surface of neutrophils (By similarity). By displaying PRTN3 at the neutrophil cell surface, may play a role in enhancing endothelial cell junctional integrity and thus vascular integrity during neutrophil diapedesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210799