

Product datasheet for **MC206748**

Pecam1 (BC008519) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pecam1 (BC008519) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pecam1
Synonyms:	PECAM-1, Pecam
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC008519
 GCCGCCATTACCTGACAAGTACCAGAGCTGGTCTCTGCGCGCCTGGAGAGGTTGTCAGAGTTGTTTCTGC
 TTTTCACACAGCAGGCTTCTGGTCTGTGGCAGGCAAGAGAATTCTGCCCTGAGGCATGGCCGGAAGACA
 GAACTAGCTGAGTGCTTCACTCTGCAGAAGTCTTTCAGGATTCAGCTGAGGTGGGCTCAGTCGGCAGAC
 AAGATGCTCCTGGCTCTGGGACTCAGCTGGTGTCTATGCAAGCCTCCAGGCTGAGGAAAACCTCTTCA
 CCATCAACAGCATCCATATGAAAAGCTGCCATCATGGGAGGTGATGAATGGGCAGCAACTGACCCTGGA
 GTGCCTTGTGGACATCAGCACCACCTCGAAAAGCAGGTCTCAGCACCGGGTGTCTTCTATAAGGACGAT
 GCGATGGTGTATAACGTCACTCCAGGGAGCACACCGAGAGCTACGTATTCTCAGGCTCGGGTCTTCC
 ACTCCGGGAAGTACAAATGCACAGTGATGCTGAACAACAAGGAAAAAACCACGATTGAGTACGAGGTGAA
 GGTGCATGGCGTATCCAAGCCAAAGGTGACACTGGACAAAAAGGAGGTGACAGAAGGCGGGTCTGTGACG
 GTCAATTGTTCTTGCAAGAAGAAAAGCCACCGATCTTTTTTAAAATTGAAAAATTAGAAGTGGGGACAA
 AGTTTGTCAAGCGAAGGATAGATAAGACCTCCAACGAGAAGTTTGTGCTCATGGAATCCCCATTGAGGC
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 CCCATCAGGAGTGAATACGTACCGTGCAGGAGTCTTCTCCACTCCCAAGTTTGAATCAAGCCCCCTG
 GGATGATCATAGAAGGGGACCAGCTGCACATTAGGTGCATAGTTCAAGTACACACTTGGTCCAGGAGTT
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 CCAGTAGCATCATGGTCAACATAACAGAGCTGTTTCCAAAGCCGAAGTTAGAGTTCTCTCCAGTCGTCT
 GGACCAAGGGGAGTTGTTGGACCTGTCTGCTCCGTCTCGGGCACACCTGTAGCCAACTTACCATTCCAG
 AAGGAAGAGACGGTCTTGTGCGAGTATCAGAAATTCAGCAAGATCGCCGAGGAGAGTGACAGCGGGGAGT
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 GCTCTCGAAGCCAGTATTTTTCATGATGCCAAGTCTGAGATCATAAAAGGACATGCCATAGGCATCAGC
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 TCGAGGTGACCTCCAATGACCCAGCAACATTCACAGATAAGCCACCAGAGACATGGAATACCAGTGCAG
 AGCGGATAATTGCCATCCACCCCGCGGTGTTACGCGAGATCCTGAGGGTCAGGGTGTAGCCCCAGTG
 GATGAAGTTGTGATTTCCATCCTGTGAGTAAACGAGGTACAGTCTGGAAGTGAATGGTACTTCCGTGCT
 CTGTGAAAGAGGGGACGAGCCCAATCACGTTTTCAGTTTTACAAAGAAAAGGAGGACAGACCTTCCACCA
 AGCGGTGCTGAATGACACCCAAGCGTTTTGGCACAACAACAAGCTAGCAAGAAGCAGGAAGGACAGTAC
 TACTGTACAGCCTCCAACAGAGCCAGCAGTATGAGGACCAGTCCCCGAAGCAGCACTCTTGCAGTCAGAG
 TCTTCTTGCCTTGAAGAAAAGGGCTCATTGCGGTGGTTGTCATTGGAGTGGTATCGCCACCTTAAT
 AGTTGCAGCCAAATGCTACTTCTGAGGAAAGCCAAGGCCAAACAGAAACCCGTGGAGATGTCCAGGCCA
 GCTGCTCACTTCTGAAGTCCAACAGCGAGAAGATTTCTGAGCCTAGTGTGGAAGCCAACAGCCATTACG
 GTTATGATGATGTTTCTGAAAATGATGCAGTAAAACCCATAAATCAAATAAAGACCCCCAGAACATGGA
 TGTAGAATACACAGAAGTGAAGTGTCTCCCTTGGAGCCTCACCAGAGAACGGAAGGCTCCCTTAATGG
 AACTTAAGACAGTCAAGGCAGTGCACGTCCCTGGGAGGTGTCATGTCCCGAGAAGAGCAGCCGATTCC
 TGGATTGCGAGAGTCTGTGCACGTATTTATGAGCCTGTCCCCACCGAAAGCAGTAACTCTTCCAGGCCAA
 GCCATCCAATTTAAACCCCGCTGCCTTGTTCATGTTGGGTATACAGAGACTCAGAGGCGCTAGTTAATG
 GCCAGCCTGACCTGTCTTCTTGTGTTTCGGGGGTGAAAGGAGGTTCCAGGAGAATAATGCCCTGGAAT
 ATTCTGAGGCTGAAATGTTGTCTCGGATAGACAGAGTACTTCTCCGTGGGTCTCTGCACAGAAGCC
 CCTTCTGCTCTGTTGCAATCACTGGGTAGTTTTTTGTTTTGTTTTGTTTTGTTTCTGTTCTCTTTTC
 TGGGTTGATCTTAATCTTTGAAAATACACAGTGTGCTCAGGTTTGCCTGGTTCCCTGTGTGACCTTCC
 CCCCCACACACACAAAAGTCAACCAGCTGACTGGGAGCAATGCTCGTGAATGGCCAGTCACTTGAAGA
 CAGACCTCAAGCCAGCAATGGCAACTGGAGCGAGCACTTAAAGCGCACCTTGATCTTCTTTCCGTTCCA
 TGCCGAAGGCCAAAGAAGAGAATGGCTGGCTACAACAAGTATTATTTTTTAAATAGTAAAAGGAA
 ATATGACTTTTCTCACTAATTTTTCTTTATTTATTTCCCACTAAAGAAACGGTTTCTAAGGTCTGAGC
 TGTTTCCAGGGTGGGCTAGAGTGGTGGGAGGAGCTGCCGACATTTTGTGACTATACCTAACCCTCC
 TCGCCTTCTCCGTTTGCCTCAGCCACCCGCTCCAGGGCCCTGAGGGGAGTTGTATTAATAAAATTTGA
 TTTTACTCTTCAAACTAA

Restriction Sites: RsrII-NotI
ACCN: BC008519

Insert Size:	2094 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC008519 , AAH08519
RefSeq Size:	3284 bp
RefSeq ORF:	2094 bp
Locus ID:	18613
Cytogenetics:	11 E1
Gene Summary:	Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (By similarity). Tyr-679 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (By similarity). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (By similarity). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (By similarity). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (By similarity). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells; PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (By similarity). Modulates bradykinin receptor BDKRB2 activation (By similarity). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (By similarity). Induces susceptibility to atherosclerosis (PubMed:19048083).[UniProtKB/Swiss-Prot Function]