

Product datasheet for **MC216102**

Cd4 (NM_013488) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd4 (NM_013488) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd4
Synonyms:	L3T4; Ly-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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RefSeq: [BC039137](#), [AAH39137](#)

RefSeq Size: 3082 bp

RefSeq ORF: 1374 bp

Locus ID: 12504

UniProt ID: [P06332](#)

Cytogenetics: 6 59.17 cM

Gene Summary: Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages.[UniProtKB/Swiss-Prot Function]