

Product datasheet for MR227116

Cd40 (NM_170702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd40 (NM_170702) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd40
Synonyms:	AI326936; Bp50; GP39; HIGM1; IGM; IMD3; p50; T-BAM; Tnfrsf5; TRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227116 representing NM_170702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCTTTGCCTCGGCTGTGCGGCTATGGGGCTGCTTGTGACAGCGGTCCATCTAGGGCAGTGTG
TTACGTGCAGTGACAAACAGTACCTCCACGATGGCCAGTGTGTGATTTGTGCCAGCCAGGAAGCCGACT
GACAAGCCACTGCACAGCTCTTGAGAAGACCAATGCCACCCATGTGACTCAGGCGAATTCTCAGCCAG
TGGAACAGGGAGATTCGCTGTACCAGCACAGACTGTGAACCAATCAAGGGCTTCGGGTTAAGAAGG
AGGGCACCGCAGAATCAGACACTGTCTGTACCTGTAAGGAAGGACAACACTGCACCAGCAAGGATTGCGA
GGCATGTGCTCAGCACACGCCCTGTATCCCTGGCTTTGGAGTTATGGAGATGGCCACTGAGACCCTGAT
ACCGTCTGTATCCCTGCCAGTCGGCTTCTTCTCCAATCAGTCATCACTTTTCGAAAAGTGTATCCCT
GGACAAGCTGTGAGGATAAAGAACTTGGAGGTCCTACAGAAAGGAACGAGTCAGACTAATGTCATCTGTGA
AAAGGTGGTCAAGAAACCAAGGATAATGAGATCTTACCCCTGCGGCTCGACGGCAAGATCCCCAGGAG
ATGGAAGATTATCCCGTCAACACCGCTGCTCCAGTGCAGGAGACGCTGCACGGGTGTGACGCTGTCA
CACAGGAGGATGGTAAAGAGAGTCGCATCTCAGTGCAGGAGCGGCAGGTGACAGACAGCATAGCCTTGAG
GCCCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227116 representing NM_170702
Red=Cloning site Green=Tags(s)

MVSLPRLCALWGCLLTAVHLGQCVTCSKQYLHDGQCCDLCPGSRLTSHCTALEKTQCHPCDSGEFSAQ
 WNREIRCHQHRHCEPNQGLRVKKEGTAESDTVCTCKEGQHCTSKDCEACAQHTPCIPGFGVMEMATETTD
 TVCHPCPVGFFSNQSSLFEKCPWTSCEDKNLEVLQKGTSTQNVICEKVVKKPKDNEILPPAARRQDPQE
 MEDYPGHNTAAPVQETLHGCQPVTQEDGKESRISVQERQVTDISIALRPLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_170702

ORF Size: 780 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_170702.2](#), [NP_733803.2](#)

RefSeq Size: 1596 bp

RefSeq ORF: 783 bp

Locus ID: 21939

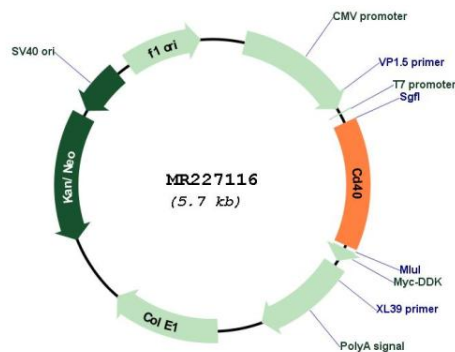
UniProt ID: [P27512](#)

Cytogenetics: 2 85.38 cM

MW: 29.3 kDa

Gene Summary: Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227116