

Product datasheet for **RC221005**

CD96 (NM_005816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD96 (NM_005816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD96
Synonyms:	TACTILE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221005 representing NM_005816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAAAATGGAAATACTGTGCTGTCTATTACATCATCCAGATACATTTTGTCAAGGGAGTTTGGG
 AAAAAACAGTCAACACAGAAGAAAATGTTTATGCTACACTTGGCTCTGATGTCAACCTGACCTGCCAAAC
 ACAGACAGTAGGCTTCTTCGTGCAGATGCAATGGTCCAAGGTCACCAATAAGATAGACCTGATTGCTGTC
 TATCATCCCCAATACGGCTTCTACTGTGCCTATGGGAGACCCTGTGAGTCACTTGTGACTTTCACAGAAA
 CTCCTGAGAAATGGGTCAAATGGACTCTGCACTTAAGGAATATGTCTTGTTCAGTCAGTGGAAAGTACGA
 GTGTATGCTTGTCTGTATCCAGAGGGCATTAGACTAAAATCTACAACCTTCTCATTAGACACACGTT
 ACAGCAGATGAATGGAACAGCAACCATACGATAGAAAATAGAGATAAATCAGACTCTGAAATACCATGCT
 TTCAAAATAGCTCCTCAAAAATTCATCTGAGTTCACCTATGCATGGTCGGTGGAGGATAATGGAATCA
 GAAACACTTATCTCCAAAATCACCTCATCAGCAATTCACATTAAGATAGAGTCAAGCTTGGT
 ACAGACTACAGACTCCACCTCTCTCCAGTCCAAATCTTCGATGATGGGCGGAAAGTCTCTTGCCACATTA
 GAGTCGGTCTCAAAAAATCTTGAGGAGCTCCACCACAGTCAAGGTTTTGCTAAACCAGAAATCCCTGT
 GATTGTGGAAAATAACTCCACGGATGTCTTGGTAGAGAGAAGATTTACCTGCTTACTAAAGAATGTATTT
 CCCAAAGCAAATACACATGGTTTATAGATGGAAGTTTTCTTCATGATGAAAAAGAAGGAATATATATTA
 CTAATGAAGAGAGAAAAGGCAAAGATGGATTTTTGGAAGTGAAGTCTGTTTTAACAGGGTACATAGTAA
 TAAACCAGCCCAATCAGACAACCTGACCATTTGGTGTATGGCTCTGTCTCCAGTCCCAGGAAATAAAGTG
 TGAACATCTCATCAGAAAAGATCACTTTCTCTTAGGTTCTGAAATTTCTCAACAGACTCCACTGCA
 GTTTACAGAATCTACCCTTGACACCCAACTTCCAGCCAGCAGTGTATCTCCTGCAAGATACCAGC
 TACATCTTCAGTACCCTGTAGATGTGAGTGCCTTGAGGCCAAACACCCTCTCAACCCAGCAATTC
 AGTATGACTACCCGAGGCTTCAACTATCCCTGGACCTCCAGTGGGACAGATACCAAAAAATCAGTTTCAC
 GGATACCTAGTGAACATACAGTTCATCCCGTCAAGTGCAGGCTCAACACTTCATGACAATGTCTTTAC
 CAGCACAGCCAGAGCATTTTCAGAAGTCCCACAACCTGCCAATGGATCTACGAAAATAATCACGTCCAT
 ATCACTGGTATTGTGGTCAATAAGCCCAAAGATGGAATGTCTGGCCAGTATTGTAGCAGCTTACTCT
 TTTGCTGCATGATATTGTTTGGTCTTGGAGTGAGAAAATGGTGTCAAGTACCAAAAAAGAAATAATGGAAG
 ACCTCCACCTTTCAAGCCACCACCCTCCATCAAGTACTTGCATTCAGAGCCCAACGAAAGTGT
 CTGCCTTATCATGAGATGGAGACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221005 representing NM_005816
 Red=Cloning site Green=Tags(s)

MEKKWKYCAVYYIIQIHFKVWVEKTVNTEENVYATLGSVDVNLTCQTQTVGFFVQMQWSKVTKIDLIAV
 YHPQYGFYCAAGRPEESLVTFTEPENGSKWLHLRNMSCSVSGRYECLVLYPEGIQTKIYNLLIQTHV
 TADEWNSNHTIEIEINQLEIPCFQNSSKISSEFTYAWSVEDNGTQETLISQNHLSNSTLLKDRVKLG
 TDYRLHLSVPVQIFDDGRKFSCHIRVGNPKILRSSTTVKVFAPKEIPVIVENNSTDVLERRFTCLLNKVF
 PKANITWIFIDGSFLHDEKEGIYITNEERKGDGFLELKSVLTRVHSNKPAQSDNLTIIWCMALSPVPGNKV
 WNISSEKIFLLGSEISSDPPLSVTESTLDTQPSPASSVSPARYPATSSVTLVDVSALRPNTTPQPSNS
 SMTTRGFNYPWTSSGTDTKKSVSRIPSETYSSSPSAGSTLHDNVFTSTARAFSEVPTTANGSTKTNHVV
 ITGIVVKNPKDGMSPVIVAALLFCCMILFGLGVRKWCQYQKEIMERPPPFKPPPPPIKYTCIQEPNESD
 LPYHEMETL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_g06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005816

ORF Size: 1707 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005816.5](#)

RefSeq Size: 4513 bp

RefSeq ORF: 1710 bp

Locus ID: 10225

UniProt ID: [P40200](#)

Cytogenetics: 3q13.13-q13.2

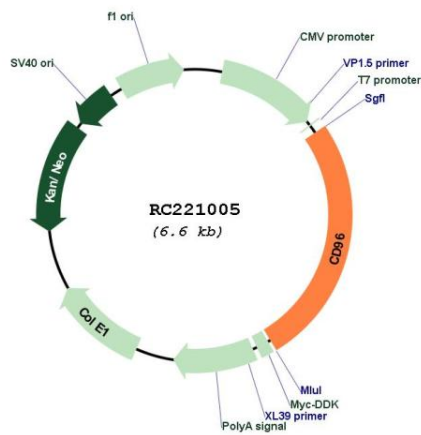
Domains: ig, IG

Protein Families: Druggable Genome, Transmembrane

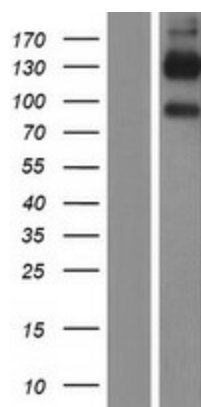
MW: 63.89 kDa

Gene Summary: The protein encoded by this gene belongs to the immunoglobulin superfamily. It is a type I membrane protein. The protein may play a role in the adhesive interactions of activated T and NK cells during the late phase of the immune response. It may also function in antigen presentation. Alternative splicing generates multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC221005



Western blot validation of overexpression lysate (Cat# [LY417050]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).