

Product datasheet for **RG221005**

CD96 (NM_005816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD96 (NM_005816) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD96
Synonyms:	TACTILE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221005 representing NM_005816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAAAAATGGAAATACTGTGCTGTCTATTACATCATCCAGATACATTTTGTCAAGGGAGTTTGGG
 AAAAAACAGTCAACACAGAAGAAAATGTTTATGCTACACTTGGCTCTGATGTCAACCTGACCTGCCAAAC
 ACAGACAGTAGGCTTCTTCGTGCAGATGCAATGGTCCAAGGTCACCAATAAGATAGACCTGATTGCTGTC
 TATCATCCCCAATACGGCTTCTACTGTGCCTATGGGAGACCCTGTGAGTCACTTGTGACTTTCACAGAAA
 CTCCTGAGAAATGGGTCAAATGGACTCTGCACTTAAGGAATATGTCTTGTTCAGTCAGTGGAAAGTACGA
 GTGTATGCTTGTCTGTATCCAGAGGGCATTAGACTAAAATCTACAACCTTCTCATTAGACACACGTT
 ACAGCAGATGAATGGAACAGCAACCATACGATAGAAAATAGAGATAAATCAGACTCTGAAATACCATGCT
 TTCAAAATAGCTCCTCAAAAATTCATCTGAGTTCACCTATGCATGGTCGGTGGAGGATAATGGAATCA
 GAAACACTTATCTCCAAAATCACCTCATCAGCAATTCACATTAAGATAGAGTCAAGCTTGGT
 ACAGACTACAGACTCCACCTCTCTCCAGTCCAAATCTTCGATGATGGGCGGAAAGTCTCTTGCCACATTA
 GAGTCGGTCTCAAAAAATCTTGAGGAGCTCCACCACAGTCAAGGTTTTTGTAAACCAGAAATCCCTGT
 GATTGTGGAAAATAACTCCACGGATGTCTTGGTAGAGAGAAGATTTACCTGCTTACTAAAGAATGTATTT
 CCCAAAGCAAATACACATGGTTTATAGATGGAAGTTTTCTTCATGATGAAAAAGAAGGAATATATATTA
 CTAATGAAGAGAGAAAAGGCAAAGATGGATTTTTGGAAGTGAAGTCTGTTTTAACAAAGGGTACATAGTAA
 TAAACCAGCCCAATCAGACAACCTGACCATTTGGTGTATGGCTCTGTCTCCAGTCCCAGGAAATAAAGTG
 TGAACATCTCATCAGAAAAGATCACTTTCTCTTAGGTTCTGAAATTCCTCAACAGACCCTCCACTGA
 GTGTTACAGAATCTACCCTTGACACCCAACTTCCAGCCAGCAGTGTATCTCCTGCAAGATATCCAGC
 TACATCTTCAGTGACCCTTGATAGATGTGAGTGCCTTGAGGCCAAACACCCTCCTCAACCCAGCAATTC
 AGTATGACTACCCGAGGCTTCAACTATCCCTGGACCTCCAGTGGGACAGATACCAAAAAATCAGTTTCAC
 GGATACCTAGTGAACATACAGTTCATCCCCCTCAGGTGCAGGCTCAACACTTCATGACAATGTCTTTAC
 CAGCACAGCCAGAGCATTTTCAGAAGTCCCACAACCTGCCAATGGATCTACGAAAATAATCACGTCCAT
 ATCACTGGTATTGTGGTCAATAAGCCCAAAGATGGAATGTCTGGCCAGTATTGTAGCAGCTTTACTCT
 TTTGCTGCATGATATTGTTGGTCTTGGAGTGAGAAAATGGTGTGAGTACCAAAAAGAAAATAATGGAAG
 ACCTCCACCTTTCAAGCCACCACCCTCCATCAAGTACTTGCATTCAGAGCCCAACGAAAGTGT
 CTGCCTTATCATGAGATGGAGACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221005 representing NM_005816
 Red=Cloning site Green=Tags(s)

MEKKWKYCAVYYIIQIHFVKGVWEKTVNTEENVYATLGSVDNLTQQTQTVGFFVQMQWSKVTKIDLIAV
 YHPQYGFYCAAGRPECESLVTFTEPENGSKWLHLRNMSCSVSGRYECLVLYPEGIQTKIYNLLIQTHV
 TADEWNSNHTIEIEINQTLIPCFQNSSKISSEFTYAWSVEDNGTQETLISQNHLSNLTLLKDRVKLG
 TDYRLHLSVPVQIFDDGRKFSCHIRVGNPKILRSSTTVKVFAPKEIPVIVENNSTDVLRVRRFTCLLKNVF
 PKANITWFIIDGSFLHDEKEGIYITNEERKGDGFLELKSVLTRVHSNKPAQSDNLTIIWCMALSPVPGNKV
 WNISSEKITFLLGSEISSDPPLSVTESTLDTQPSPASSVSPARYPATSSVTLVDVSALRPNTTPQPSNS
 SMTTRGFNYPWTSSGDTKKSFSRIPSETYSSSPSGAGSTLHDNVFTSTARAFSEVPTTANGSTKTNHVV
 ITGIVVNKPKDGMSPVIVAALLFCCMILFGLGVRKWCYQKEIMERPPPFKPPPPPIKYTCIQEPNESD
 LPYHEMETL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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](#)

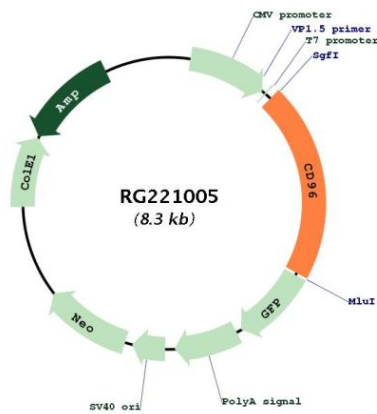
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005816.3 , NP_005807.1
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
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 RG221005