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Product datasheet for RC220165

CD97 (ADGRE5) (NM_001025160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_001025160) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD97
Synonyms:	CD97; TM7LN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220165 representing NM_001025160
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGGCCGCGTCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGGACTCCA
GGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACCGCCTGTCGCTGCAATCCAGG
GTTCAGCTCTTTTTCTGAGATCATCACCACCCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA
CCGTCGAAAGTGTCATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA
GCCCGGGATATGAGCCTGTTTCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT
GGACGAATGTCAGCAGAACCCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTTGGCAGCTAT
ACCTGCCAGTGCCTGCCTGGCTTCAAGTTCATACCTGAGGATCCGAAGGTCTGCACAGATGTGGACGAGT
GCAGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTCATACAGCTGCCG
CTGCCGCCCAGGCTGGAAGCCCAGACACGGAATCCCGAATAACCAAAAGGACACTGTCTGTGAAGATATG
ACTTTCTCCACCTGGACCCCGCCCCCTGGAGTCCACAGCCAGACGCTTTCCCGATTCTTCGACAAAGTCC
AGGACCTGGGCAGAGACTCCAAGACAAGCTCAGCCGAGGTCACCATCCAGAATGTCATCAAATTGGTGGA
TGAACTGATGGAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAGCCACCCAG
CTGCTCTCAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCCTTCACCTACA
TTTCCCCTTCGAACACAGAGCTGACCCTGATGATCCAGGAGCGGGGGGACAAGAACGTCACTATGGGTCA
GAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCCGCCGTGGCG
GGCATCCTCTCCATCCAGAACATGACGACATTGCTGGCCAATGCCTCCTTGAACCTGCATTCCAAGAAGC
AAGCCGAACTGGAGGAGATATATGAAAGCAGCATCCGTGGTGTCCAACTCAGACGCCTCTCTGCCGTCAA
CTCCATCTTTCTGAGCCACAACAACACCAAGGAACTCAACTCCCCCATCCTTTTCGCCTTCTCCCACCTT
GAGTCCTCCGATGGGGAGGCGGGAAGAGACCCTCCTGCCAAGGACGTGATGCCTGGGCCACGGCAGGAGC
TGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGCCAGGTGCT
GGGCAGCAAGAACGGCAGCACCACCTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTATGGCTCAT
TATGACGTGGAGGACTGGAAGCTGACCCTGATCACCAGGGTGGGACTGGCGCTGTCACTCTTCTGCCTGC
TGCTGTGCATCCTCACTTTCCTGCTGGTGCGGCCCATCCAGGGCTCGCGCACCACCATACACCTGCACCT
CTGCATCTGCCTCTTCGTGGGCTCCACCATCTTCCTGGCCGGCATCGAGAACGAAGGCGGCCAGGTGGGG
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AAGGCCTGGAGCTCTACTTTCTTGTGGTGCGCGTGTTCCAAGGCCAGGGCCTGAGTACGCGCTGGCTCTG
CCTGATCGGCTATGGCGTGCCCCTGCTCATCGTGGGCGTCTCGGCTGCCATCTACAGCAAGGGCTACGGC
CGCCCCAGATACTGCTGGTTGGACTTTGAGCAGGGCTTCCTCTGGAGCTTCTTGGGACCTGTGACCTTCA
TCATTTTGTGCAATGCTGTCATTTTCGTGACTACCGTCTGGAAGCTCACTCAGAAGTTTTCTGAAATCAA
TCCAGACATGAAGAAATTAAAGAAGGCGAGGGCGCTGACCATCACGGCCATCGCGCAGCTCTTCCTGTTG
GGCTGCACCTGGGTCTTTGGCCTGTTCATCTTCGACGATCGGAGCTTGGTGCTGACCTATGTGTTTACCA
TCCTCAACTGCCTGCAGGGCGCCTTCCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTTCGGGAAGA
ATACCGGAAGTGGGCCTGCCTAGTTGCTGGGGGGAGCAAGTACTCAGAATTCACCTCCACCACGTCTGGC
ACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220165 representing NM_001025160
Red=Cloning site Green=Tags(s)

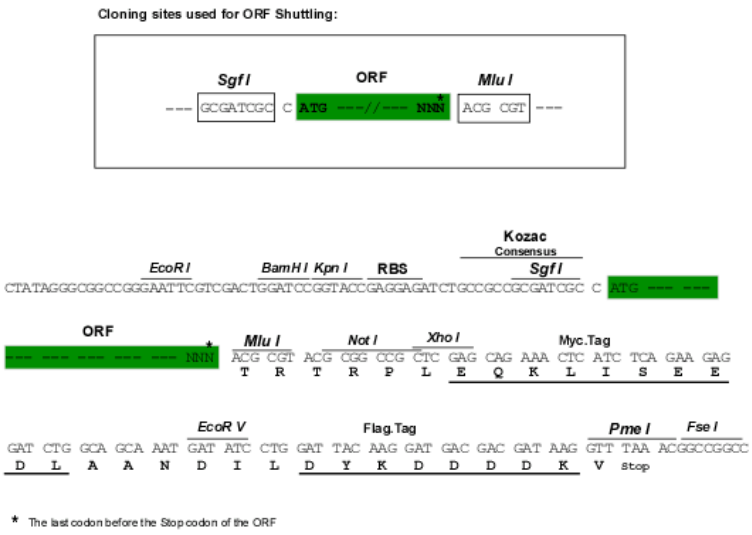
MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITTPTETCDDINECAT
PSKVSCGKFSDCWNTEGSYDCVCSPGYEPVSGAKTFKNESENTCQDVDECQQNPRLCKSYGTCVNTLGSY
TCQCLPGFKFIPEDPKVCTDVDECSSGQHQCDSSTVCFNTVGSYSCRCRPGWKPRHGIPNNQKDTVCEDM
TFSTWTPPPGVHSQTLSRFFDKVQDLGRDSKTSSAEVTIQNVIKLVDELMEAPGDVEALAPPVRHLIATQ
LLSNLEDIMRILAKSLPKGPFTYISPSNTELTLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVA
GILSIQNMTTLLANASLNLHSKKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSHL
ESSDGEAGRDPPAKDVMPGPRQELLCAFWKSDSDRGGHWATEGCQVLGSKNGSTTCQCSHLSSFAILMAH
YDVEDWKLTLITRVGLALSLFCLLLCILTFLLVRPIQGSRTTIHLHLCICLFVGSTIFLAGIENEGGQVG
LRCRLVAGLLHYCFLAAFCWMSLEGLELYFLVVRVFQGQGLSTRWLCLIGYGVPLLIVGVSAAIYSKGYG
RPRYCWLDFEQGFLWSFLGPVTFIILCNAVIFVTTVWKLTQKFSEINPDMKKLKKARALTITAIAQLFLL
GCTWVFGLFIFDDRSLVLTYVFTILNCLQGAFLYLLHCLLNKKVREEYRKWACLVAGGSKYSEFTSTTSG
TGHNQTRALRASESGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2340_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025160

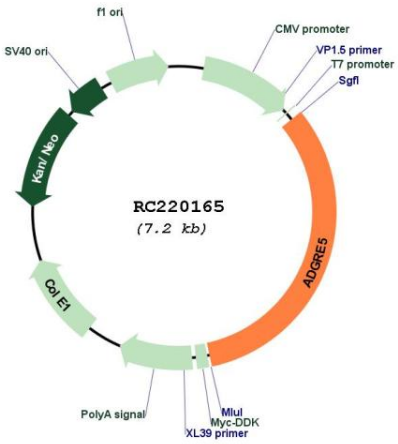
ORF Size: 2358 bp

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_001025160.2, NP_001020331.1
RefSeq Size:	3353 bp
RefSeq ORF:	2361 bp
Locus ID:	976
UniProt ID:	P48960
Cytogenetics:	19p13.12
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, GPCR, Secreted Protein, Transmembrane
MW:	87.1 kDa
Gene Summary:	This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which associate at the cell surface as a receptor complex. The encoded protein may play a role in cell adhesion as well as leukocyte recruitment, activation and migration, and contains multiple extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface complement regulatory protein CD55. Expression of this gene may play a role in the progression of several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is found in a cluster with other EGF-TM7 genes on the short arm of chromosome 19. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC220165