

Product datasheet for **RG220165**

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:	TurboGFP
Symbol:	CD97
Synonyms:	CD97; TM7LN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220165 representing NM_001025160
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGGCCGCTTTCTCGATTCTGTGTCTGGTACTCTGCCGGGAGCTGAAACCCAGGACTCCA
 GGGGCTGTGCCCGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACCGCCTGTCGCTGCAATCCAGG
 GTTCAGCTCTTTTTCTGAGATCATCACCCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA
 CCGTCGAAAGTGTATGCGGAAAATTCTCGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA
 GCCCGGATATGAGCCTGTTTCTGGGGCAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT
 GGACGAATGTCAGCAGAACCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTTGGCAGCTAT
 ACCTGCCAGTGCCTGCCTGGCTTCAAGTTCATACCTGAGGATCCGAAGGTCTGCACAGATGTGGACGAGT
 GCAGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTTACACAGCTGCCG
 CTGCCGCCAGGCTGGAAGCCCAGACACGGAATCCCGAATAACCAAAAGGACACTGTCTGTGAAGATATG
 ACTTTCTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTCCCGATTCTTCGACAAAGTCC
 AGGACCTGGGCAGAGACTCCAAGACAAGCTCAGCCGAGGTCAACATCCAGAATGTATCAAAATTGGTGGGA
 TGAAGTGTGGAAGTCTCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAGCCACCCAG
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 GAGCAGCGCACGATGAAGCTGAATTGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCGCCGTGGCG
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 TGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGCCAGGTGCT
 GGGCAGCAAGAAGCGCAGCACCACTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTATGGCTCAT
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 TCATTTTGTGCAATGCTGTCAATTTCTGACTACCGTCTGGAAGCTCACTCAGAAGTTTTCTGAAATCAA
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 TCCTCAACTGCCTGCAGGGCGCCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTTTCGGGAAGA
 ATACCGGAAGTGGCCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTCACCTCCACCACGTCTGGC
 ACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220165 representing NM_001025160
Red=Cloning site Green=Tags(s)

MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITTPPETCDDINECAT
PSKVSCGKFSDCWNTGSDYDCVCSPGYEPVSGAKTFKNESENTCQDVDECQONPRLCKSYGTCVNTLGSY
TCQCLPGFKFIPEDPKVCTDVDECSSGQHQCDSSTVCFNTVGSYSCRCPGWKPRHGIPNNQKDTVCEDM
TFSTWTPPPGVHSQTLRFFDKVQDLGRDSKTSSAEVTIQNVIKLVDELMEAPGDVEALAPPVRHLIATQ
LLSNLEDIMRILAKSLPKGPFTYISPSNTELTLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVA
GILSIQNMTTLLANASLNLHKKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSLH
ESSDGEAGRDPKAKDVMGPRQELLCAFWKSDSDRGHWATEGCQVLGSKNGSTTCQCSHLSSFAILMAH
YDVEDWKLTLITRVGLALSFLCLLCLIFLLVRPIQGSRTTIHLHLCLFVGSSTIFLAGIENEGGQVG
LRCLVAGLLHYCFLAFCWMSLEGLYFLVVRVFGQGLSTRWLCLIGYGVPLLVGVSAAIYSKGYG
RPRYCWLDFEQGFLWSFLGPVTFIILCNAVIFVTTVWKLTKQFSEINPDMKCLKKARALTITAIQLFLL
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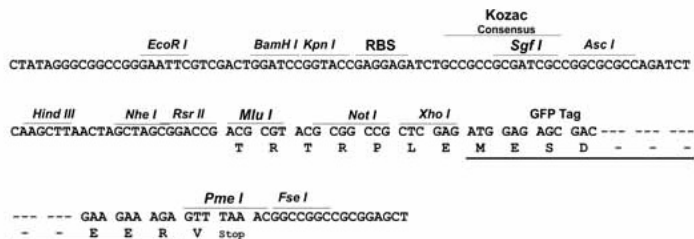
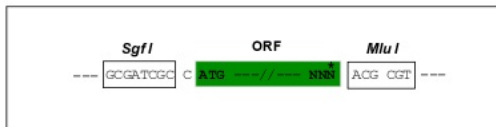
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2346_g09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



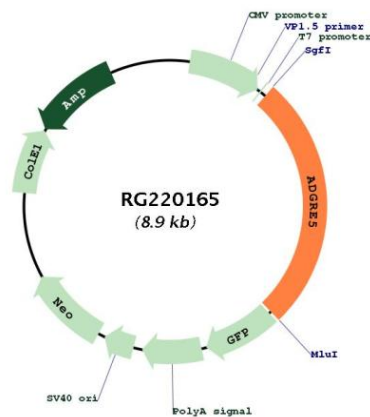
ACCN: NM_001025160

ORF Size: 2358 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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

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 RG220165