

Product datasheet for **RG211647**

CD97 (ADGRE5) (NM_078481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_078481) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RG211647 representing NM_078481
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGGCCGCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGGACTCCA
GGGCTGTGCCCGTGGTGCCCTCAGAATCCTCGTGTGTCAATGCCACCGCCTGTCGCTGCAATCCAGG
GTTTCAGCTCTTTTCTGAGATCATCACCCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA
CCGTCGAAAGTGTATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA
GCCCGGATATGAGCCTGTTTCTGGGGCAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT
GGACGAATGTCAGCAGAACCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTTGGCAGCTAT
ACCTGCCAGTGCCTGCCTGGCTTCAAGTTCATACCTGAGGATCCGAAGGTCTGCACAGATGTGAATGAAT
GCACCTCCGGACAAAACCGTCCACAGCTCCACCCACTGCCTCAACAACGTGGGCGAGCTATCAGTGCCG
CTGCCCGCGGGCTGGCAACCGATTCCGGGGTCCCCCAATGGCCCAACAATACCGTCTGTGAAGATGTG
GACGAGTGCAGCTCCGGGCGAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTCATA
GCTGCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACCAAAAGGACACTGTCTGTGA
AGATATGACTTTTCTCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTTCCCGATTCTTCGAC
AAAGTCCAGGACCTGGCAGAGACTCCAAGACAAGCTCAGCCGAGGTACCATCCAGAATGTCATCAAAAT
TGGTGGATGAACTGATGGAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAGC
CACCCAGCTGCTCTCAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCTTC
ACCTACATTTCCCTTTCGAACACAGAGCTGACCCTGATGATCCAGGAGCGGGGGACAAGAACGCTACTA
TGGTTCAGAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCGC
CGTGGCGGGCATCCTCTCCATCCAGAACATGACGACATTGCTGGCCAATGCCTCCTTGAACCTGCATTCC
AAGAAGCAAGCCGAAGTGGAGGAGATATATGAAAGCAGCATCCGTGGTGTCCAACCTCAGACGCCTCTCTG
CCGTCACTCCATCTTTCTGAGCCACAACAACCAAGGAACTCACTCCCCATCCTTTTCGCCTTCTC
CCACCTTGAGTCTCCGATGGGGAGCGGGAAGAGACCCTCCTGCCAAGGACGTGATGCCTGGGCCACGG
CAGGAGCTGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGCACTGGGCCACCGAGGGCTGCC
AGGTGCTGGGCAGCAAGAACGGCAGCACCACTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTAT
GGCTCATTATGACGTGGAGGACTGGAAGCTGACCCTGATCACCAGGTGGGACTGGCGCTGTCACTTTC
TGCTGCTGCTGTGCATCCTCACTTTCTGCTGGTGGCGCCATCCAGGGCTCGCGCACCAACCATACACC
TGACCTCTGCATCTGCCTCTTCGTGGGCTCCACCATCTCCTGGCCGGCATCGAGAACGAAGGCGGCCA
GGTGGGGCTGCGCTGCCGCTGGTGGCCGGGCTGCTGCACTACTGTTTCTGGCCGCTTCTGCTGGATG
AGCCTCGAAGGCCTGGAGCTCTACTTTCTGTGGTGGCGGTGTTCCAAGGCCAGGGCCTGAGTACGCGCT
GGCTCTGCCTGATCGGCTATGGCGTGCCCTGCTCATCGTGGGCGTCTCGGCTGCCATCTACAGCAAGGG
CTACGGCCGCCCCAGATACTGCTGGTGGACTTTGAGCAGGGCTCCTCTGGAGCTTCTTGGGACCTGTG
AAATCAATCCAGACATGAAGAAATTAAGAAGGGCAGGGCGCTGACCATCACGGCCATCGCGCAGCTCTT
CCTGTTGGGCTGCACCTGGGCTTTGGCCTGTTTCATCTTCGACGATCGGAGCTTGGTGTGACCTATGTG
TTTACCATCCTCAACTGCCTGCAGGGCGCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTTTC
GGGAAGAATACCGAAAGTGGCCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTCACCTCCACCAC
GTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211647 representing NM_078481
Red=Cloning site Green=Tags(s)

MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITTPTETCDDINECAT
PSKVSCGKFSDCWNTGSDYDCVCSPGYEPVSGAKTFKNESENTCQDVDECQONPRLCKSYGTCVNTLGSY
TCQCLPGFKFIPEDPKVCTDVNCTSGQNPCHSSTHCLNNVGSYQCRCRPGWQPIPGSPNGPNNTVCEDV
DECSSGQHQCDSSTVCFNTVGSYSCRCRPGWKPRHGIPNNQKDTVCEDMTFSTWTPPPVGHSQTLRFFD
KVQDLGRDSTSSAEVTIQNVIKLVDELMEAPGDVEALAPPVRHLIATQLLSNLEDIMRILAKSLPKGPF
TYISPSNTELTLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVAGILSIQNMTTLLANASLNLHS
KKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSLHLESDGEAGRDPKADVMPGPR
QELLCAFWKSDDRGGHWATEGCQVLGSKNGSTTCQCSHLSSFAILMAHYDVEDWKLTLITRVGLALSLF
CLLLCILTFLLVRPIQGSRTTIHLHLICLIFVGSTIFLAGIENEGGQVGLRCRLVAGLLHYCFLAAFCWM
SLEGLELYFLVVRVFGQGLSTRWLCIGYGVPLLIIVGVSAAIYSKGYGRPRYCWLDFEQGFLWSFLGPV
TFIILCNAVIFVTTVWKLTKQFSEINPDMKKLKKARALTITAIQLFLLGCTWVFGFLIFDDRSLVLTYY
FTILNCLQGAFLLYLLHCLLNKKVREEYRKWACL VAGGSKYSEFTSTTSGTGHNQTRALRAESGI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_078481

ORF Size: 2505 bp

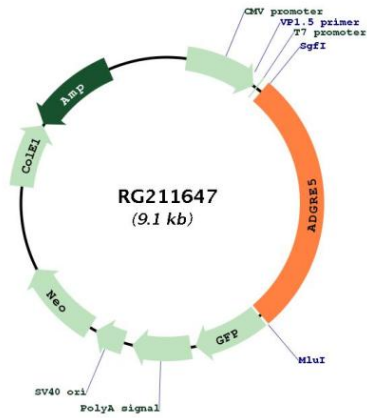
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_078481.4
RefSeq Size:	3247 bp
RefSeq ORF:	2508 bp
Locus ID:	976
UniProt ID:	P48960
Cytogenetics:	19p13.12
Domains:	GPS, 7tm_2, EGF_CA, EGF, EGF
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, GPCR, Secreted Protein, Transmembrane
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG211647