

## Product datasheet for **RG202001**

### CD97 (ADGRE5) (NM\_001784) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_001784) 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:**

>RG202001 representing NM\_001784  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAGGCCGCTTTCTCGCATTCTGTGTCTGGTACTCTGCCGGAGCTGAAACCCAGGACTCCA  
 GGGGCTGTGCCCGTGGTGCCCTCAGAATCCTCGTGTGTCAATGCCACCGCCTGTCTGCAATCCAGG  
 GTTCAGCTCTTTTTCTGAGATCATCACCCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA  
 CCGTCGAAAGTGTATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA  
 GCCCGGATATGAGCCTGTTTCTGGGGCAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT  
 GGACGAGTGCAGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTTCATC  
 AGCTGCCGCTGCCGCCAGGCTGGAAGCCAGACCGGAATCCGAATAACCAAAAGGACACTGTCTGTG  
 AAGATATGACTTTCTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTCCCGATTCTTCGA  
 CAAAGTCCAGGACTGGGCAGAGACTCCAAGACAAGCTCAGCCGAGGTACCATCCAGAATGTCATCAA  
 TTGGTGGATGAATGATGGAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGACCTCATAG  
 CCACCCAGCTGCTCTAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCTT  
 CACCTACATTTCCCTTTCGAACACAGAGCTGACCTGATGATCCAGGAGCGGGGGACAAGAAGTCACT  
 ATGGGTGACAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCG  
 CCGTGGCGGGCATCCTCTCCATCCAGAACATGACGACATTGCTGGCCAATGCCTCCTTGAACCTGCATTC  
 CAAGAAGCAAGCCGAACGGAGGAGATATGAAAGCAGCATCCGTGGTGTCCAACCTCAGACGCCTCTCT  
 GCCGTCAACTCCATCTTTCTGAGCCACAACAACCAAGGAACCAACTCCCCATCCTTTTCGCCTTCT  
 CCCACTTGAGTCTCCGATGGGGAGGCGGGAAGAGACCCTCTGCCAAGGACGTGATGCCTGGGCCACG  
 GCAGGAGCTGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGC  
 CAGGTGCTGGGCAGCAAGAACGGCAGCACCCACCTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTA  
 TGGCTCATTATGACGTGGAGGACTGGAAGCTGACCCTGATCACCAGGGTGGGACTGGCGTGTCACTCTT  
 CTGCCTGCTGTGTGCATCCTCACTTTCTGCTGGTGGGCCCATCCAGGGCTCGCGCACCACCATAAC  
 CTGCACCTCTGCATCTGCCTCTTCGTGGGCTCCACCATCTTCTGGCCGCATCGAGAACGAAGGCGGCC  
 AGGTGGGGCTGCGCTGCCGCTGGTGGCCGGGCTGCTGCACTACTGTTTCTGGCCGCTTCTGCTGGAT  
 GAGCCTCGAAGGCCTGGAGCTCTACTTTCTGTGGTGGCGGTGTCCAAGGCCAGGGCCTGAGTACGCGC  
 TGGCTCTGCCTGATCGGCTATGGCGTGGCCCTGCTCATCGTGGGCTCTCGGCTGCCATCTACAGCAAGG  
 GCTACGGCCGCCCAGATACTGCTGGTTGGACTTTGAGCAGGGCTTCTCTGGAGCTTCTGGGACCTGT  
 GACCTTCAATTTTTGTGCAATGCTGTCAATTTCTGTGACTACCGTCTGGAAGCTCACTCAGAAGTTTTCT  
 GAAATCAATCCAGACATGAAGAAATTAAGAAGGGCAGGGCGCTGACCATCACGGCCATCGCGCAGCTCT  
 TCCTGTTGGGCTGCACCTGGGTCTTTGGCTGTTTCATCTTCGACGATCGGAGCTTGGTGTGACCTATGT  
 GTTTACCATCCTCAACTGCCTGCAGGGCGCCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGT  
 CGGGAAGAATACCGGAAGTGGCCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTCACCTCCACCA  
 CGTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202001 representing NM\_001784  
 Red=Cloning site Green=Tags(s)

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MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITTPETETCDDINECAT
PSKVSCGKFSDCWNTEGSYDCVCSPGYEPVSGAKTFKNESENTCQDVDECSSGQHQCDSSTVCFNTVGSY
SCRCRPGWKPRHGIPNNOQKDTVCEDMTFSTWTPPPGVHSQTLRFFDKVQDLGRDSKTSAAEVTIQNVIK
LVDELMEAPGDVEALAPPVRHLIATQLLSNLEDIMRILAKSLPKGPFTYISPSNTELTLMIQERGDKNVT
MGQSSARMKLNWAVAAGAEDPGPAVAGILSIQNMTLLANASLNLHKKQAELEEIYESSIRGVQLRRLS
AVNSIFLSHNNTKELNSPILFAFSHLESSDGEAGRDPKAKDVMPGPRQELLCAFWKSDSDRGGHWATEGC
QVLGSKNGSTTCQCSHLSFAILMAHYDVEDWKLTLITRVGLALSFLCLLCLILFLLVVRPIQGSRTTIH
LHLCICLFGVSTIFLAGIENEGQVGLRCRLVAGLLHYCFLA AFCWMSLEGLELYFLVVRVFGQGLSTR
WLCLIGYVPLLIVGVSAAIYSKGYGRPRYCWLDFEQGFLWSFLGPVTFIILCNAVIFVTTVWKLTKQKFS
EINPDMKKLKKARALTITATAQLFLLGCTWVFGFLIFDDRSLVLYVFTILNCLQGAFYLLHCLLNKKV
REEYRKWACL VAGGSKYSEFTSTTSGTGHNQTRALRASESGI
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001784

**ORF Size:** 2226 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:**

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\\_001784.5](#)

**RefSeq Size:** 2968 bp

**RefSeq ORF:** 2229 bp

**Locus ID:** 976

**UniProt ID:** [P48960](#)

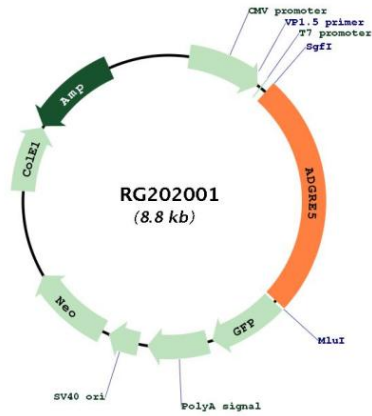
**Cytogenetics:** 19p13.12

**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:** 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 RG202001