

## Product datasheet for **SC120259**

### CD97 (ADGRE5) (NM\_078481) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_078481) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD97
Synonyms:	CD97; TM7LN1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_078481, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGGCCGCGTCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGGACTCCA  
GGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACCGCCTGTGCTGCAATCCAGG  
GTTTCAGCTCTTTTTCTGAGATCATCACCAACCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA  
CCGTCAAAGTGTGATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA  
GCCCGGATATGAGCCTGTTTCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT  
GGACGAATGTGAGCAGAACCCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTTGGCAGCTAT  
ACCTGCCAGTGCCTGCCTGGCTTCAAGTTCATACCTGAGGATCCGAAGGTCTGCACAGATGTGAATGAAT  
GCACCTCCGGACAAAACCCGTGCCACAGCTCCACCCACTGCCTCAACAACGTGGGAGCTATCAGTGCCG  
CTGCCGCCGGGCTGGCAACCGATTCCGGGGTCCCCAATGGCCCAACAATAACCGTCTGTGAAGATGTG  
GACGAGTGCAGCTCCGGGACGATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTTCATACA  
GCTGCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACCAAAGGACACTGTCTGTGA  
AGATATGACTTTCTCCACCTGGACCCCGCCCCCTGGAGTCCACAGCCAGACGCTTTCCCGATTCTTCGAC  
AAAGTCCAGGACCTGGGACAGACTCCAAGACAAGCTCAGCCGAGGTACCATCCAGAATGTCATCAAAAT  
TGGTGGATGAACTGATGGAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAGC  
CACCCAGCTGCTCTCAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCTTC  
ACCTACATTTCCCTTCGAACACAGAGCTGACCCTGATGATCCAGGAGCGGGGGGACAAGAACGTCACTA  
TGGGTGAGAGCAGCGACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCCGC  
CGTGGCGGGCATCCTCTCCATCCAGAACATGACGACATTGCTGGCCAATGCCTCCTTGAACCTGCATTCC  
AAGAAGCAAGCCGAAGTGGAGGAGATATGAAAGCAGCATCCGTGGTGTCCAACCTCAGACGCTCTCTG  
CCGTCAACTCCATCTTTCTGAGCCACAACAACCAAGGAACCTCAACTCCCCATCCTTTTCGCCTTCTC  
CCACCTTGAGTCTCCGATGGGGAGGCGGGAAGAGACCCTCCTGCCAAGGACGTGATGCCTGGGCCACGG  
CAGGAGTGTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGCC  
AGGTGCTGGGACGAAGAAGCGCAGCACCACTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTAT  
GGCTCATTATGACGTGGAGGACTGGAAGCTGACCCTGATCACCAGGGTGGGACTGGCGTGTCACTCTTC  
TGCCTGCTGTGCATCCTCACTTTCTGCTGGTGGGCCCATCCAGGGCTCGCGCACCACCATAACCC  
TGCACCTCTGCATCTGCCTTCTCGTGGGCTCCACCATCTTCTGGCCGGCATCGAGAACGAAGGCGGCCA  
GGTGGGGCTGCGTGGCCCTGGTGGCCGGGCTGCTGCACTACTGTTTCTGGCCGCTTCTGCTGGATG  
AGCCTCGAAGGCCTGGAGCTCTACTTTCTGTGGTGGCGGTGTTCCAAGGCCAGGGCCTGAGTACGCGCT  
GGCTCTGCCTGATCGGCTATGGCGTGCCCTGCTCATCGTGGGCGTCTCGGCTGCCATCTACAGCAAGGG  
CTACGGCCGCCCCAGATACTGCTGGTTGGACTTTGAGCAGGGCTTCTCTGGAGCTTCTTGGGACCTGTG  
ACCTTCATCATTTTGTGCAATGCTGTCAATTTCTGACTACCGTCTGGAAGCTCACTCAGAAGTTTTCTG  
AAATCAATCCAGACATGAAGAAATTAAGAAGGCGAGGGCGCTGACCATCACGGCCATCGCGCAGCTCTT  
CCTGTTGGGCTGCACCTGGGCTTTGGCCTGTTTCACTCTCGACGATCGGAGCTTGGTGTGACCTATGTG  
TTTACCATCCTCAACTGCCTGCAGGGCGCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTTCC  
GGGAAGAATACCGAAGTGGGCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTCACCTCCACCAC  
GTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATATGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_078481 unedited  
 GGGGCCCGGGGAAGNNGCAAATCCCNNGGNGTTCGGAATTGAAACCCATTTATATAG  
 GCGGACGCGCAATTCGCACCANAACGCCAGTTCGGGGAGGGCCCTGGGCCAGCGGCTGT  
 CCGCCCCCTCCTTCATAAAGTCTGGCCTCGGGACAGCCTGCACAGCTGCCTAGCCTG  
 TGGAGACGGGACAGCCCTGTCCCACTACTCTTTCCCCTGCCGCTCCTGCCGGCAGCTCC  
 AACCATGGTAGGCCGCTCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGA  
 AACCCAGGACTCCAGGGGCTGTGCCCGTGGTGCCTCAGAACTCCTCGTGTCAATGC  
 CACCGCCTGTGCTGCAATCCAGGGTTCAGCTCTTTTTCTGAGATCATCACCACCCGAC  
 GGAGACTTGTGACGACATCAACGAGTGTCAACACCGTCGAAAGTGCATGCGGAAAATT  
 CTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCAGCCCGGATATGAGCC  
 TGTNTCTGGNGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGTGGACGA  
 ATGTCAGCAGAACCAAGGCTCTGNTAAAGCTACGGCACCTGCGTCAACACCTTGGCAG  
 CTATACCTGCCAGTGCCTGCCTGGCTTAAAGTCATACCTGAGGATCCGAAGGTCTGCACA  
 GATGTGAATGAATGCACCTNCGGACANAACCCCGTGCACAGNNTCCACCCACTGCCTCA  
 ACAACGTGGGGCAGCTATCANTGCCGCTGCCNGCCGGCCTGGCANCCCGATCCCGGGGTC  
 CCCACATGGCCCCAACAAATACCCTTTGTGAAGAATGTGGACAATGCANNTCCGGGAGCA  
 TAAGTGTGACAGGTCCACCGTTTGGTAAAACCCGGGGTTATACAGCTGCCCGTGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_078481 unedited  
 ACAAACTATGGTCGTTATCCCTCTTCTAGATTTGTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TGGATGCATGTGTTTAAATTTAAGTGTCAACACTGGAAAAATTTAACAGATAAAAAACAC  
 ATTACACAACGTCTACAACCTTCAACAGTGAGAACCTCCTGCCCGGCCAGGCAGGGCA  
 GGCTCTGTACCGTGAGCCTCAAGCAGTGGCCCCAAGGGGCTCGCCATGGGGCCTCTGA  
 CATCAGTCTTAGCTTAAAGAGGAAGCTGAGCCCCAGCGCCTAGTCTCTTCAAGTTCTGCAG  
 CAAAGACATGAGAGGAAAAGTCCAGGATGGGACAAGCGCCCTTAGTCTGTGCCGGGAAGN  
 TTNAACCTAGGGGGCCCCACCAGAGGTTGCCCCAGGGGGGCAAAACATTGGCTTGGCATT  
 TGCCAAGCCCCCTGGGGCCCCAACCCCTTGTCCCCACCCCTGGGGGTCCACCAAAG  
 GTGGAAACCANAAGAAGGCAGGCCAGCAAGGCAGGAACCCGGTGGGGTTTCCGAATTC  
 CACCCCACTTGGGGTGGTCCCGGGAACCTTTTGGGTGGCCACGAACTATTAGGTTG  
 GGCCATTCCTTCCCTTGGGGGGCCCCCGGGTTTTCAAAGGAAAAAGGAAAGGTTG  
 GGAAGGGGTTTTTTAAAATTGGGGGGGGGGACCCCAAAAAAGGGGNNGGNNNTT  
 NNNNNNNNNNCNCTTTTTTTTTGTTCCNNNNAAAAAAAAAANNCTNNTTTTGTGG  
 GGGCTTCTCCNNNNNTNNTCCCTTNGNGGTNNCCCCCCCCCCCCNNNNNTT  
 TCCTTTTTGGGGTGTGTTGTCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_078481

**Insert Size:**

3500 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_078481.2</a> , <a href="#">NP_510966.1</a>
<b>RefSeq Size:</b>	3247 bp
<b>RefSeq ORF:</b>	2508 bp
<b>Locus ID:</b>	976
<b>UniProt ID:</b>	<a href="#">P48960</a>
<b>Cytogenetics:</b>	19p13.12
<b>Domains:</b>	GPS, 7tm_2, EGF_CA, EGF, EGF
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, GPCR, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as CD97(EGF 1,2,3,4,5)).</p>