

## Product datasheet for **SC109040**

### CD97 (ADGRE5) (NM\_001784) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_001784) 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: >OriGene ORF within SC109040 sequence for NM\_001784 edited (data generated by NextGen Sequencing)

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ATGGGAGGCCGCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACC
CAGGACTCCAGGGGCTGTGCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACC
GCCTGTCGCTGCAATCCAGGGTTCAGCTCTTTTCTGAGATCATCACCACCCGACGGAG
ACTTGTGACGACATCAACGAGTGTGCAACACCGTCGAAAGTGCATGCGGAAAATTCTCG
GACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCAGCCCGGATATGAGCCTGTT
TCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGTGGACGAGTGC
AGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTTCATAC
AGCTGCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACCAAAAGGAC
ACTGTCTGTGAAGATATGACTTTCTCCACCTGGACCCCGCCCCCTGGAGTCCACAGCCAG
ACGCTTTCCCGATTCTTCGACAAAGTCCAGGACCTGGGCAGAGACTCCAAGACAAGCTCA
GCCGAGGTACCATCCAGAATGCATCAAATTGGTGGATGAACTGATGGAAGCTCCTGGA
GACGTAGAGGCCCTGGCCACCTGTCCGGCACCTCATAGCCACCAGCTGCTCTCAAAC
CTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCTTACCTACATT
TCCCTTCGAACACAGAGCTGACCCTGATGATCCAGGAGCGGGGGACAAGAACGTCACT
ATGGGTACAGAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGAT
CCAGGCCCCGCCGTGGCGGGCATCCTCTCCATCCAGAATGACGACATTGCTGGCCAAT
GCCTCCTTGAACCTGCATTCCAAGAAGCAAGCCGAACCTGGAGGAGATATATGAAAGCAGC
ATCCGTGGTGTCCAACCTCAGACGCCTCTCTGCCGTCAACTCCATCTTTCTGAGCCACAAC
AACACCAAGGAACTCAACTCCCCATCCTTTTCGCCTTCTCCACCTTGAAGTCTCCGAT
GGGAGGGCGGGAAGAGACCCTCCTGCCAAGGACGTGATGCCTGGGCCACGGCAGGAGCTG
CTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGC
CAGGTGCTGGGCAGCAAGAACGGCAGCACACCTGCCAATGCAGCCACCTGAGCAGCTTT
GCGATCCTTATGGCTCATTATGACGTGGAGGACTGGAAGCTGACCCTGATCACCAGGGTG
GGACTGGCGCTGTCACTTTCTGCCTGCTGCTGTGCATCCTCACTTTCTGCTGGTGC GG
CCCATCCAGGGCTCGCGCACCACCATACACCTGCACCTCTGCATCTGCCTCTTCGTGGG
TCCACCATCTTCTGGCCGGCATCGAGAACGAAGGCGCCAGGTGGGGCTGCGCTGCCGC
CTGGTGGCCGGGCTGCTGCACTACTGTTTCTGGCCGCTTCTGCTGGATGAGCCTCGAA
GGCCTGGAGCTCTACTTTCTTGTGGTGC GCGTGTCCAAGGCCAGGGCCTGAGTACGCGC
TGCTCTGCCTGATCGGCTATGGCGTGCCCTGCTCATCGTGGGCGTCTCGGCTGCCATC
TACAGCAAGGGCTACGGCCGCCAGATAGTGTGGTGGACTTTGAGCAGGGCTTCCTC
TGGAGCTTCTTGGGACCTGTGACCTTCATATTTGTGCAATGCTGTCAATTTCTGTGACT
ACCGTCTGGAAGCTCACTCAGAAGTTTTCTGAAATCAATCCAGACATGAAGAAATTAAG
AAGGCGAGGGCGCTGACCATCACGGCCATCGCGCAGCTCTTCTGTTGGGCTGCACCTGG
GTCTTTGGCCTGTTATCTTCGACGATCGGAGCTTGGTGTGACCTATGTGTTTACCATC
CTCAACTGCCTGCAGGGCGCCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTT
CGGGAAGAATACCGGAAGTGGCCCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTC
ACCTCCACCAGTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCC
GGCAYATGA
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Clone variation with respect to NM\_001784.4  
2225 t=>y

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001784 unedited GAACCGTCAAATTTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGAGACG GGACAGCCCTGTCCCCTCACTCTTTCCCTGCCGCTCCTGCCGGCAGCTCCAACCATGG GAGGCCGCGTCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGG ACTCCAGGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACCCGCT GTCGCTGCAATCCAGGGTTCAGCTCTTTTCTGAGATCATCACCACCCCGACGGAGACTT GTGACGACATCAACGAGTGTGACACACCCGTCGAAAGTGCATGCGGAAAATTCTCGGACT GCTGGAACACAGAGGGGAGCTACGACTGCGTGTGACGCCGGGATATGAGCCTGTTTCTG GGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGTGGACGAGTGCAGCT CCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTCATAAGCT GCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACCAAAAGGACACTG TCTGTGAAGATATGACTTTCTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGC TTTCCCGATTCTCGACAAAGTCCAGGACCTGGGCAGAGACTCCAAGACAAGCTCAGCCG AGGTCACCATCCAGAATGGTCATCAATTGGGTGGATGAACTGATGGAAGCTCCTGGAAC GTATAGGCCCTGGCGCCACTGTCCGGCACCTTATAGCCCCAAGCTGCTCTCAAACCTT TGAGAAATCATGAGGATCCCGGCCAAGAACCTGCTTAAGGCCCTCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001784
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u><a href="#">NM_001784.3</a></u> , <u><a href="#">NP_001775.2</a></u>
<b>RefSeq Size:</b>	2968 bp
<b>RefSeq ORF:</b>	2229 bp
<b>Locus ID:</b>	976
<b>UniProt ID:</b>	<u><a href="#">P48960</a></u>
<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

**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]

Transcript Variant: This variant (2) lacks two consecutive exons in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2, also known as CD97(EGF 1,2,5)) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.