

Product datasheet for **SC109039**

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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001784, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGGCCGCTCTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGGACTCCA  
GGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACCGCCTGTGCTGCAATCCAGG  
GTTTCAGCTCTTTTTCTGAGATCATCACACCCCGACGGAGACTTGTGACGACATCAACGAGTGTGCAACA  
CCGTCAAAGTGTGATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCA  
GCCCGGATATGAGCCTGTTTCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGT  
GGACGAGTGCAGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTTCATAC  
AGCTGCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACCAAAAGGACACTGTCTGTG  
AAGATATGACTTTCTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTTCCCGATTCTTCGA  
CAAAGTCCAGGACCTGGGCAGAGACTCCAAGACAAGCTCAGCCGAGGTCACCATCCAGAATGTCATCAA  
TTGGTGGATGAAGTGTGGAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAG  
CCACCCAGCTGCTCTAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCTT  
CACCTACATTTCCCTTTCGAACACAGAGCTGACCTGATGATCCAGGAGCGGGGGACAAGAACGCTCACT  
ATGGGTACAGAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCTGGAGCCGAGGATCCAGGCCCG  
CCGTGGCGGGCATCCTCTCCATCCAGAACATGACGACATTGCTGGCCAATGCCTCCTTGAACCTGCATTC  
CAAGAAGCAAGCCGAAGTGGAGGAGATATGAAAGCAGCATCCGTGGTGTCCAACCTCAGACGCCTCTCT  
GCCGTCAACTCCATCTTTCTGAGCCACAACAACCAAGGAACCTCAACTCCCCATCCTTTTTCGCTTCT  
CCCACCTTGAGTCCATCCGATGGGGAGGCGGGAAGAGACCTCCTGCCAAGGACGTGATGCCTGGGCCACG  
GCAGGAGCTGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCCACCGAGGGCTGC  
CAGGTGCTGGGCAGCAAGAACGGCAGCACACCCTGCCAATGCAGCCACCTGAGCAGCTTTGCGATCCTTA  
TGGCTCATTATGACGTGGAGGACTGGAAGCTGACCTGATCACCAGGGTGGGACTGGCGCTGTCACTCTT  
CTGCCTGTGCTGTGCATCCTCACTTTCTGCTGGTGGCGCCATCCAGGGCTCGCGCACACCACATACAC  
CTGCACCTCTGCATCTGCCTCTTCTGTTGGCTCCACCATCTTCTGGCCGGCATCGAGAACGAAGGCGGCC  
AGGTGGGGCTGCGCTGCCGCTGGTGGCCGGGCTGCTGCACTACTGTTTCTGGCCGCTTCTGCTGGAT  
GAGCCTCGAAGGCTGGAGCTCTACTTTCTTGTGGTGGCGGTGTTCCAAGGCCAGGGCTGAGTACGCGC  
TGGCTCTGCTGATCGGCTATGGCGTCCCCTGCTCATCGTGGGCGTCTCGGCTGCCATCTACAGCAAGG  
GCTACGGCCGCCAGATACTGCTGGTTGACTTTGAGCAGGGCTTCTCTGGAGCTTCTGGGACCTGT  
GACCTTATCATTTTGTGCAATGCTGTGATTTTCTGACTACCGTCTGGAAGCTCACTCAGAAGTTTCT  
GAAATCAATCCAGACATGAAGAAATTAAGAAGGCGAGGGCGCTGACCATCACGGCCATCGCGCAGCTCT  
TCCTGTTGGGCTGCACCTGGGTCTTTGGCTGTTTCATCTTCGACGATCGGAGCTTGGTGTGACCTATGT  
GTTTACCATCCTCAACTGCCTGCAGGGCGCTTCTCTACCTGCTGCACTGCCTGCTCAACAAGAAGGTT  
CGGGAAGAATACCGAAGTGGGCTGCCTAGTTGCTGGGGGAGCAAGTACTCAGAATTCACCTCCACCA  
CGTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGGGCATCAGAGTCCGGCATATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001784 unedited
 GCATCAGACTACTATAGGGCCGCGCAATTCGGCACGAGGCTGTGGAGACGGGACAG
 CCCTGTCCCACTACTCTTTCCCTGCCGCTCCTGCCGGCAGCTCCAACCATGGGAGGCC
 GCGTCTTTCTCGATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCCAGGACTCCA
 GGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGCAATGCCACCGCCTGTGCT
 GCAATCCAGGGTTTCAGCTCTTTTCTGAGATCATCACCACCCGACGGAGACTTGTGACG
 ACATCAACGAGTGTGCAACACCCGTCGAAAGTGTATGCGGAAAAATCTCGGACTGCTGGA
 ACACAGAGGGGAGCTACGACTGCGTGTGCAGCCGGGATATGAGCCTGTTTCTGGGGCAA
 AAACATTCAGAATGAGAGCGAGAACACCTGTCAAGATGTGGACGAGTGCAGCTCCGGGC
 AGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACCGTGGGTTATACAGCTGCCGCT
 GCCGCCAGGCTGGAAGCCAGACACGGAATCCCGATAACCAAAAGGACACTGTCTGTGA
 AGATATGACTTTTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTTCCCG
 ATTCTTCAACAAGTCAAGACCTNGGCAGAGACTCCAAGACCAGCTCAGCCGAGGTCACC
 ATCCAGAATGTCATCAAATTTGGTGGATGAACTGATGGAAGCTNCTGGAGACGTANAGGCC
 CTGCCCCACCTGTCCGCACCTTAGCCACCAGCTGTCTCAAACCTGAGATTCATGAGGAT
 CTGCCAAACCTGCCTAAGCCCCCTTACTACATTCCTTGAACANACTGCCCTGAGATCC
 AGACGGGGGAAGCACTCCTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001784 unedited
 CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTCTGTATGCATGTGTTAAT
 TTTAAGTGTCAACACTGAAAAAATTTTAAACAGAATAAAAAACATTACACAACGTTCTAC
 AACCTTTCACAACAGTGAGAACTCCCTGCCCGCCAGGCAGGGCAGGCCTTCTGTACC
 GTGAGCCTCAGGAGTGGCCCAAGGGGCTCGCCATGGGGCCTCTGACATCAGTCTTAG
 CTTAAGAGGGAAGCTGAGCCCCAGCGCCTAGTCTCTTCAAGTCTGACGAAAGACATGAG
 AGGAAAAGTCCAGGATGGGACAAGCGCCCTTAGTCTGTCCCGAGTACTGGCCACAGGTGC
 CAGGGCAACATGCTGCATTGCAGCCCTGGGCCAGCCCTGTCCCCACCTGGGTACAAG
 GTGGAGCAGAGAGGCAGCCAGCAGCAGGACCAGTGGCTCCGACTCCACCCACTGGGTGT
 CCTGGACTTTGGTGCCAGACTATAGTGCCTCCCTCCTGGTGGCACACGGGATCAGGG
 AGGGAGGTGGAGGATANAAGTGGTGGACGAAGGAAGGATTGGATGNTCTTNNNTNCC
 AAGCCGTTCCGGCCCTCCGCTTTGCCGCTCCTCCCNNTTTTCCCCCTTTCCATT
 TCCTCTTCTTTTCCCTCTTCCGCTCTCCCTATTATATTCTTTTCCCGTCACTACTCCG
 CCGTCTCCTTTTTTCTTCTCGTTCACCTTCTCCACGCCCCGCCCCGCTTCCGAT
 CTCCTTCCACTCCATTCTTCTGATCTCCCTATCCCTCCACTCTCCACTCCCTTAC
 TCTACTCCTTCCCCCTTCCCCATTCCCCCTTTTCCCTCCGTTCTTTCCCTCA
 TTATCCCTCCCTTCTCCCCCACTTTTTTCTCCACCCCAATTCATCTTTCTTTA
 TCCCTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT
 GTACGTCATTCTCTCATCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_001784

Insert Size:

3000 bp

OTI Disclaimer:

The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.

OTI Annotation:	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
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:	<u>NM_001784.3</u> , <u>NP_001775.2</u>
RefSeq Size:	2968 bp
RefSeq ORF:	2229 bp
Locus ID:	976
UniProt ID:	<u>P48960</u>
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]

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.