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Product datasheet for SC302356

CD97 (ADGRE5) (NM_001025160) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD97 (ADGRE5) (NM_001025160) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD97
Synonyms:	CD97; TM7LN1
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001025160, the custom clone sequence may differ by one or more nucleotides

ATGGGAGGCCGCGTCTTTCTCGCATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACC
CAGGACTCCAGGGGCTGTGCCCGGTGGTGCCCTCAGAACTCCTCGTGTGTCAATGCCACC
GCCTGTCGCTGCAATCCAGGGTTCAGCTCTTTTTCTGAGATCATCACCACCCCGACGGAG
ACTTGTGACGACATCAACGAGTGTGCAACACCGTCGAAAGTGTCATGCGGAAAATTCTCG
GACTGCTGGAACACAGAGGGGAGCTACGACTGCGTGTGCAGCCCGGGATATGAGCCTGTT
TCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACCTGTCAAGATGTGGACGAATGT
CAGCAGAACCCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTTGGCAGCTAT
ACCTGCCAGTGCCTGCCTGGCTTCAAGTTCATACCTGAGGATCCGAAGGTCTGCACAGAT
GTGGACGAGTGCAGCTCCGGGCAGCATCAGTGTGACAGCTCCACCGTCTGCTTCAACACC
GTGGGTTCATACAGCTGCCGCTGCCGCCCAGGCTGGAAGCCCAGACACGGAATCCCGAAT
AACCAAAAGGACACTGTCTGTGAAGATATGACTTTCTCCACCTGGACCCCGCCCCCTGGA
GTCCACAGCCAGACGCTTTCCCGATTCTTCGACAAAGTCCAGGACCTGGGCAGAGACTCC
AAGACAAGCTCAGCCGAGGTCACCATCCAGAATGTCATCAAATTGGTGGATGAACTGATG
GAAGCTCCTGGAGACGTAGAGGCCCTGGCGCCACCTGTCCGGCACCTCATAGCCACCCAG
CTGCTCTCAAACCTTGAAGATATCATGAGGATCCTGGCCAAGAGCCTGCCTAAAGGCCCC
TTCACCTACATTTCCCCTTCGAACACAGAGCTGACCCTGATGATCCAGGAGCGGGGGGAC
AAGAACGTCACTATGGGTCAGAGCAGCGCACGCATGAAGCTGAATTGGGCTGTGGCAGCT
GGAGCCGAGGATCCAGGCCCCGCCGTGGCGGGCATCCTCTCCATCCAGAACATGACGACA
TTGCTGGCCAATGCCTCCTTGAACCTGCATTCCAAGAAGCAAGCCGAACTGGAGGAGATA
TATGAAAGCAGCATCCGTGGTGTCCAACTCAGACGCCTCTCTGCCGTCAACTCCATCTTT
CTGAGCCACAACAACACCAAGGAACTCAACTCCCCCATCCTTTTCGCCTTCTCCCACCTT
GAGTCCTCCGATGGGGAGGCGGGAAGAGACCCTCCTGCCAAGGACGTGATGCCTGGGCCA
CGGCAGGAGCTGCTCTGTGCCTTCTGGAAGAGTGACAGCGACAGGGGAGGGCACTGGGCC
ACCGAGGGCTGCCAGGTGCTGGGCAGCAAGAACGGCAGCACCACCTGCCAATGCAGCCAC
CTGAGCAGCTTTGCGATCCTTATGGCTCATTATGACGTGGAGGACTGGAAGCTGACCCTG
ATCACCAGGGTGGGACTGGCGCTGTCACTCTTCTGCCTGCTGCTGTGCATCCTCACTTTC
CTGCTGGTGCGGCCCATCCAGGGCTCGCGCACCACCATACACCTGCACCTCTGCATCTGC
CTCTTCGTGGGCTCCACCATCTTCCTGGCCGGCATCGAGAACGAAGGCGGCCAGGTGGGG
CTGCGCTGCCGCCTGGTGGCCGGGCTGCTGCACTACTGTTTCCTGGCCGCCTTCTGCTGG
ATGAGCCTCGAAGGCCTGGAGCTCTACTTTCTTGTGGTGCGCGTGTTCCAAGGCCAGGGC
CTGAGTACGCGCTGGCTCTGCCTGATCGGCTATGGCGTGCCCCTGCTCATCGTGGGCGTC
TCGGCTGCCATCTACAGCAAGGGCTACGGCCGCCCCAGATACTGCTGGTTGGACTTTGAG
CAGGGCTTCCTCTGGAGCTTCTTGGGACCTGTGACCTTCATCATTTTGTGCAATGCTGTC
ATTTTCGTGACTACCGTCTGGAAGCTCACTCAGAAGTTTTCTGAAATCAATCCAGACATG
AAGAAATTAAAGAAGGCGAGGGCGCTGACCATCACGGCCATCGCGCAGCTCTTCCTGTTG
GGCTGCACCTGGGTCTTTGGCCTGTTCATCTTCGACGATCGGAGCTTGGTGCTGACCTAT
GTGTTTACCATCCTCAACTGCCTGCAGGGCGCCTTCCTCTACCTGCTGCACTGCCTGCTC
AACAAGAAGGTTCGGGAAGAATACCGGAAGTGGGCCTGCCTAGTTGCTGGGGGGAGCAAG
TACTCAGAATTCACCTCCACCACGTCTGGCACTGGCCACAATCAGACCCGGGCCCTCAGG
GCATCAGAGTCCGGCATATGA

Restriction Sites: Please inquire

ACCN: NM_001025160

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001025160.1, NP_001020331.1
RefSeq Size:	3100 bp
RefSeq ORF:	2361 bp
Locus ID:	976
UniProt ID:	P48960
Cytogenetics:	19p13.12
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 (3) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (3, also known as CD97(EGF 1,2,3,5)) is shorter than isoform 1.