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Product datasheet for SC318963

CD105 (ENG) (NM_001114753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD105 (ENG) (NM_001114753) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD105
Synonyms:	END; HHT1; ORW1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001114753, the custom clone sequence may differ by one or more nucleotides

ATGGACCGCGGCACGCTCCCTCTGGCTGTTGCCCTGCTGCTGGCCAGCTGCAGCCTCAGCCCCACAAGTC
TTGCAGAAACAGTCCATTGTGACCTTCAGCCTGTGGGCCCCGAGAGGGGCGAGGTGACATATACCACTAG
CCAGGTCTCGAAGGGCTGCGTGGCTCAGGCCCCCAATGCCATCCTTGAAGTCCATGTCCTCTTCCTGGAG
TTCCCAACGGGCCCGTCACAGCTGGAGCTGACTCTCCAGGCATCCAAGCAAAATGGCACCTGGCCCCGAG
AGGTGCTTCTGGTCCTCAGTGTAAACAGCAGTGTCTTCCTGCATCTCCAGGCCCTGGGAATCCCACTGCA
CTTGGCCTACAATTCCAGCCTGGTCACCTTCCAAGAGCCCCCGGGGGTCAACACCACAGAGCTGCCATCC
TTCCCCAAGACCCAGATCCTTGAGTGGGCAGCTGAGAGGGGCCCCATCACCTCTGCTGCTGAGCTGAATG
ACCCCCAGAGCATCCTCCTCCGACTGGGCCAAGCCCAGGGGTCACTGTCCTTCTGCATGCTGGAAGCCAG
CCAGGACATGGGCCGCACGCTCGAGTGGCGGCCGCGTACTCCAGCCTTGGTCCGGGGCTGCCACTTGGAA
GGCGTGGCCGGCCACAAGGAGGCGCACATCCTGAGGGTCCTGCCGGGCCACTCGGCCGGGCCCCGGACGG
TGACGGTGAAGGTGGAACTGAGCTGCGCACCCGGGGATCTCGATGCCGTCCTCATCCTGCAGGGTCCCCC
CTACGTGTCCTGGCTCATCGACGCCAACCACAACATGCAGATCTGGACCACTGGAGAATACTCCTTCAAG
ATCTTTCCAGAGAAAAACATTCGTGGCTTCAAGCTCCCAGACACACCTCAAGGCCTCCTGGGGGAGGCCC
GGATGCTCAATGCCAGCATTGTGGCATCCTTCGTGGAGCTACCGCTGGCCAGCATTGTCTCACTTCATGC
CTCCAGCTGCGGTGGTAGGCTGCAGACCTCACCCGCACCGATCCAGACCACTCCTCCCAAGGACACTTGT
AGCCCGGAGCTGCTCATGTCCTTGATCCAGACAAAGTGTGCCGACGACGCCATGACCCTGGTACTAAAGA
AAGAGCTTGTTGCGCATTTGAAGTGCACCATCACGGGCCTGACCTTCTGGGACCCCAGCTGTGAGGCAGA
GGACAGGGGTGACAAGTTTGTCTTGCGCAGTGCTTACTCCAGCTGTGGCATGCAGGTGTCAGCAAGTATG
ATCAGCAATGAGGCGGTGGTCAATATCCTGTCGAGCTCATCACCACAGCGGAAAAAGGTGCACTGCCTCA
ACATGGACAGCCTCTCTTTCCAGCTGGGCCTCTACCTCAGCCCACACTTCCTCCAGGCCTCCAACACCAT
CGAGCCGGGGCAGCAGAGCTTTGTGCAGGTCAGAGTGTCCCCATCCGTCTCCGAGTTCCTGCTCCAGTTA
GACAGCTGCCACCTGGACTTGGGGCCTGAGGGAGGCACCGTGGAACTCATCCAGGGCCGGGCGGCCAAGG
GCAACTGTGTGAGCCTGCTGTCCCCAAGCCCCGAGGGTGACCCGCGCTTCAGCTTCCTCCTCCACTTCTA
CACAGTACCCATACCCAAAACCGGCACCCTCAGCTGCACGGTAGCCCTGCGTCCCAAGACCGGGTCTCAA
GACCAGGAAGTCCATAGGACTGTCTTCATGCGCTTGAACATCATCAGCCCTGACCTGTCTGGTTGCACAA
GCAAAGGCCTCGTCCTGCCCGCCGTGCTGGGCATCACCTTTGGTGCCTTCCTCATCGGGGCCCTGCTCAC
TGCTGCACTCTGGTACATCTACTCGCACACGCGTTCCCCCAGCAAGCGGGAGCCCGTGGTGGCGGTGGCT
GCCCCGGCCTCCTCGGAGAGCAGCAGCACCAACCACAGCATCGGGAGCACCCAGAGCACCCCCTGCTCCA
CCAGCAGCATGGCATAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001114753 unedited
TTGGATTTTGTAATACGACTCACTATAGGGCGGGCCGCGAATCGGCACGAGGGCCGGCCG
GGCTGGATGAGCCGGGAGCTCCCTGCTGCCGGTCATACCACAGCCTTCATCTGCGCCCTG
GGGCCAGGACTGCTGCTGTCACTGCCATCCATTGGAGCCCAGCACCCCCTCCCCGCCCAT
CCTTCGGACAGCAACTCCAGCCCAGCCCCGCGTCCCTGTGTCCACTTCTCCTGACCCCTC
GGCCGCCACCCCAGAAGGCTGGAGCAGGGACGCCGTCGCTCCGGCCGCCTGCTCCCCTCG
GGTCCCCGTGCGAGCCCACGCCGGCCCCGGTGCCCGCCCGCAGCCCTGCCACTGGACACA
GGATAAGGCCCAGCGCACAGGCCCCCACGTGGACAGCATGGACCGCGGCACGCTCCCTCT
GGCTGTTGCCCTGCTGCTGGCCAGCTGCAGCCTCAGCCCCACAAGTCTTGCAGAAACAGT
CCATTGTGACCTTCAGCCTGTGGGCCCCGAGAGGGGCGAGGTGACATATACCACTAGCCA
GGTCTCGAAGGGCTGCGTGGCTCAGGCCCCCAATGCCATCCTTTGAAGTCCATGTCCTCT
TCCTAGAGTTCCCAACGGGCCCGTCACAGCTNGGAGCTGACTCTCCAGGCATCCAAGCAA
AATGGCACCTGCCCCCGAGAGGGGCCTTCTGGNCCTCAGTGTAAACAACAAGTGTCTTCC
TGCATCTCCAGGCCCTGGGAATCCCACTGCACTTGGCCTACAATTTCAGCCTGGTCACCT
TCCAGACCCCCCGGGGGGTAACACCACAGAGCTGGCATCCTTCCCAAGACCAATCCTTTG
AGTGGGCAGTTGAGGAG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_001114753 unedited
GCCGCCTCTAAAGTGAGTTTTTTTTTTTTTTTTTTGGTTTCATGGTCTGATTTATTGGTG
GTGAATACACAGGGGCAGGCCCAGGACAAGCAGCTTGGCTACTCCCCCTCTGCTGGCTGC
CCGACCGGCAGAGGGGGCTCCATGTGGCAGGAGCTAGGCTCCCAACGCCCACTGTTCTTG
CCACCCTCTGGGCTCCCATGCTGGGCTCCGCTAGGCTCCTGTCTCCCCTGCCAGTTAGTT
AGGCAAGTTCAGGTGTGGAGGCCGCAGGGATAGATCCAGGTGGCTCTGGGCTGGGCCCTC
TTCTCTTCCCAGCGGGGAGGTGCTGTTGGCCTGGCTGGGCTGGCCTGAATCTGTTTCAAG
TTCTCCCTTCCTGCCCAGCTCAGTTCACCAGTGCTGGATCCAGGTTCAAATGACAGGGAC
TTGGGTTTTTACAACAGCGTGGCAAGTGGTCTGTCTCCTGGGCAGCCATATCCCAGACCC
ACTGGGTTGAAAGTTCTGTGGGGTGGAGGGACCCCAAGGTGTTCCAAGCCAGTGGCTGCA
CTGGCAGCAGGCCTCTGATAGGGAGGCGGGAAGGGTAAGCGCGGAGAGCAAGCTCCATTC
TGGGTCGAGTGGAGGACTGGCTCCCAGGGTGAGTTCACACCAGTGCTCCCAGCTGGCGGC
TGCTCAGTCTCTCCTGCTGGGCGAGCGCGGGGGGCCGGAGCCTATGCCATGCTGCTGGTG
GAGCAAGAGGTGCCCTGGGAGCTCCCGATGCTGGAGGTGGCGCTGCTGCTCTCCGAGAAG
GCCGGTGCAGGCACCCGCCCCACGGCTTCCGCTTGCTGAGGGAACCGTGCGCGCATATAG
TCCCCATGCCACATGATCAGGCCCCGATGAGGATGCCCCTAGTGATGCCCACACGCGGGC
AGTCAGGCCTTTCTGGGAACAAAAGATAGGTTGTGAGTTTACCCATAAACCCTCCGGCCC
TCGGT
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Restriction Sites: NotI-NotI

ACCN: NM_001114753

Insert Size: 3000 bp

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_001114753.1, NP_001108225.1
RefSeq Size:	3077 bp
RefSeq ORF:	1977 bp
Locus ID:	2022
UniProt ID:	P17813
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Gene Summary:	This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds to the beta1 and beta3 peptides with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. This gene may also be involved in preeclampsia and several types of cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013] Transcript Variant: This variant (1) encodes the longer isoform (1, also known as L-endoglin).