

Product datasheet for **RC226069**

CD105 (ENG) (NM_001114753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD105 (ENG) (NM_001114753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD105
Synonyms:	END; HHT1; ORW1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC226069 representing NM_001114753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCGCGGCACGCTCCCTCTGGCTGTTCCTGCTGCTGGCCAGCTGCAGCCTCAGCCCCACAAGTC
 TTGCAGAAACAGTCCATTGTGACCTTCAGCCTGTGGGCCCGAGAGGGACGAGGTGACATATACCACTAG
 CCAGGTCTCGAAGGGCTGCGTGGCTCAGGCCCAATGCCATCCTTGAAGTCCATGTCCTCTTCCTGGAG
 TTCCCAACGGGCCGTCACAGCTGGAGCTGACTCTCCAGGCATCCAAGCAAAATGGCACCTGGCCCCGAG
 AGGTGCTTCTGGTCTCAGTGTAAACAGCAGTGTCTTCTGCATCTCCAGGCCCTGGGAATCCCACTGCA
 CTTGGCCTACAATTCCAGCCTGGTCACCTTCCAAGAGCCCCGGGGTCAACACCACAGAGCTGCCATCC
 TTCCCAAGACCCAGATCCTTGAGTGGCAGCTGAGAGGGGCCCATCACCTCTGCTGCTGAGCTGAATG
 ACCCCAGAGCATCCTCCTCGACTGGCCAAGCCAGGGGTACTGTCCTTCTGCATGCTGGAAGCCAG
 CCAGGACATGGGCCGACGCTCGAGTGGCGCCGCTACTCCAGCCTTGGTCCGGGGCTGCCACTTGAA
 GCGTGGCCGGCCACAAGGAGGCCACATCCTGAGGGTCTGCCGGGCCACTCGGCCGGGCCCGGACGG
 TGACGGTGAAGGTGGAAGTGAAGTGCAGCTGCGCACCCGGGGATCTCGATGCCGTCTCATCTGCAGGGTCCCC
 CTACGTGTCTGGCTCATCGACGCCAACCAACATGCAGATCTGGACCACTGGAGAATACTCCTTCAAG
 ATCTTTCCAGAGAAAAACATTCTGGCTTCAAGCTCCCAGACACCTCAAGGCCCTCGGGGGAGGCC
 GGATGCTCAATGCCAGCATTGTGGCATCCTTCTGGAGCTACCGTGGCCAGCATTGTCTCACTTTCATGC
 CTCCAGCTGCGGTGGTAGGCTGCAGACCTACCCGACCGATCCAGACCACTCCTCCAAGGACACTTGT
 AGCCCGGAGCTGCTCATGTCCTTGATCCAGACAAAGTGTCCGACGACGCCATGACCCTGGTACTAAAGA
 AAGAGCTTGTGGCATTGAAGTGCACCATCACGGCCCTGACCTTCTGGGACCCAGCTGTGAGGCAGA
 GGACAGGGGTGACAAGTTGTCTTGCGCAGTGCTTACTCCAGCTGTGGCATGCAGGTGTCAGCAAGTATG
 ATCAGCAATGAGCGGTGGTCAATATCCTGTCGAGCTCATCACACAGCGGAAAAAGGTGCACTGCCTCA
 ACATGGACAGCCTCTCTTCCAGCTGGGCTCTACCTCAGCCACACTTCTCCAGGCCTCCAACACCAT
 CGAGCCGGGGCAGCAGAGCTTTGTGAGGTGAGAGTGTCCCATCCGTCTCCGAGTTCCTGCTCCAGTTA
 GACAGCTGCCACCTGGACTTGGGGCTGAGGGAGGCACCGTGGAACTCATCCAGGGCCGGGCGGCCAAGG
 GCAACTGTGTGAGCCTGCTGTCCCAAGCCCCGAGGGTGACCCGCGTTCAGCTTCTCCTCCACTTCTA
 CACAGTACCCATACCCAAAACCCGACCCCTCAGCTGCACGGTAGCCCTGCGTCCCAAGACCGGGTCTCAA
 GACCAGGAAGTCCATAGGACTGTCTTCATGCGCTTGAACATCATCAGCCCTGACCTGTCTGTTGCACAA
 GCAAAGGCTCGTCTGCCCGCGGTGCTGGGCATCACCTTGGTGCCTTCTCATCGGGGCCCTGCTCAC
 TGCTGCACTCTGGTACATCTACTCGCACACGCGTTCACCCAGCAAGCGGGAGCCCGTGGTGGCGGTGGCT
 GCCCGGCCCTCCTCGGAGAGCAGCAGCACAACACAGCATCGGGAGCACCCAGAGCACCCCTGCTCCA
 CCAGCAGCATGGCA

AG**CGGACCG**ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226069 representing NM_001114753
Red=Cloning site Green=Tags(s)

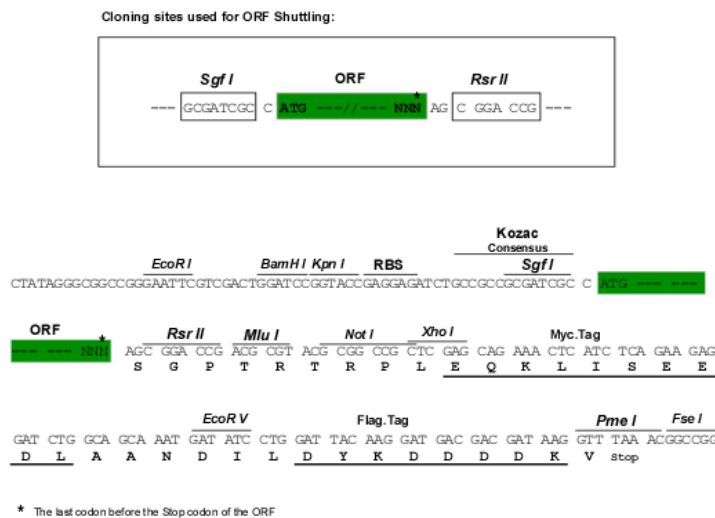
```
MDRGTLPLAVALLLASCSSLPTSLAETVHCDLQPVGPERDEVYTTTSQVSKGCVAQAPNAILEVHVLFLF
FPTGPSQLELTLQASKQNGTWPREVLLVLSVNSSVFLHLQALGIPLHLAYNSSLVTFQEPGPVNTTELP
SFPKTQILEWAAERGPITSAEELNDPQSILLRLGQAQGSLSFCMLEASQDMGRTLEWRPRTALVRGCHLE
GVAGHKEAHILRVLPGHSAGPRTVTVKVELSCAPGDLDAVLILQGPPYVSWLIDANHNMQIWTTEYSFK
IFPEKNIRGFKLDPDTPQGLLGEARMLNASIVASFVELPLASIVSLHASSCGGRLQTSAPAIQTTPPKDTC
SPELLMSLIQTKCADDAMTLVLKKELVAHLKCTITGLTFWDPSCAEADRGDKFVLRSAVSSCGMQVSASM
ISNEAVVNILSSSSPQRKKVHCLNMDLSFQLGLYLSPHFLQASNTIEPGQSFVQVRVSPSVSEFLQL
DSCHLDLGPPEGTVELIQGRAAKGNCVLLSPSPEGDPFRSFLHFYTVPIPKTGLSCTVALRPKTGSQ
DQEVHRTVFMRLNIISPDLSGCTSKGLVLPVGLITFGAFLIGALLTAALWYIYSHTRSPSKREPVVAVA
APASSESSSTNHSIGSTQSTPCSTSSMA
```

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4623_e06.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001114753

ORF Size: 1974 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001114753.3](#)

RefSeq ORF: 1977 bp

Locus ID: 2022

UniProt ID: [P17813](#)

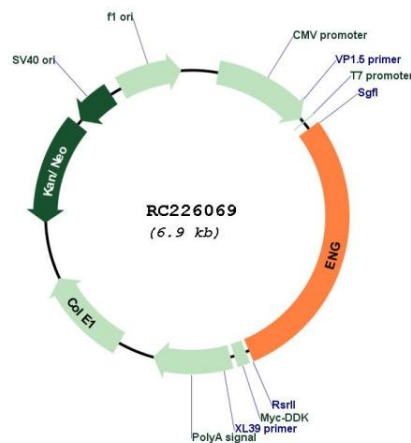
Cytogenetics: 9q34.11

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

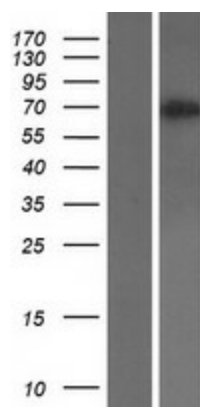
MW: 70.64 kDa

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]

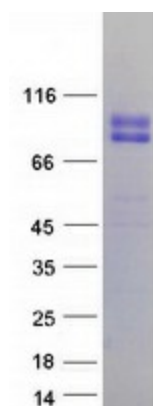
Product images:



Circular map for RC226069



Western blot validation of overexpression lysate (Cat# [LY426509]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226069 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ENG protein (Cat# [TP326069]). The protein was produced from HEK293T cells transfected with ENG cDNA clone (Cat# RC226069) using MegaTran 2.0 (Cat# [TT210002]).