

Product datasheet for **RC210768**

CD37 (NM_001774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD37 (NM_001774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD37
Synonyms:	GP52-40; TSPAN26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210768 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCCCAGGAGAGCTGCCTCAGCCTCATCAAGTACTTCTCTTCGTTTTCAACCTCTTCTTCTCG
TCCTCGGCAGCCTGATCTTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGCTTTGT
GGGCTTGGCCTTCGTGCCTCTGCAGATCTGGTCCAAAGTCTGGCCATCTCAGGAATCTTACCATGGGC
ATCGCCCTCCTGGGTTGTGTGGGGCCCTCAAGGAGCTCCGCTGCCTCCTGGGCCTGATTTTGGGATGC
TGCTGCTCCTGTTTGCCACACAGATCACCTGGGAATCCTCATCTCCACTCAGCGGGCCAGCTGGAGCG
AAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAGTACGGCACCAACCCGAGGAGACCAGCGGCCGAG
GAGAGCTGGGACTATGTGCAATTCAGCTGCGCTGCTGCGGCTGGCACTACCCGCAGGACTGGTTCCAAG
TCCTCATCCTGAGAGGTAACGGGTGGAGGGCGCACCGCTGCCCTGCTCCTGCTACAACCTTGTGCGCGAC
CAACGACTCCACAATCCTAGATAAGGTGATCTTGGCCAGCTCAGCAGGCTTGGACACCTGGCGCGGTCC
AGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCAGGGCTGCGCGCAGGGCC
TCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTGGCCTACTCGAGCT
CGGGTTTCATGACGCTCTCGATATTCTGTGCAGAACTGGACCACGCTACAACCGGCTCGCTCGATAC
CGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210768 protein sequence
Red=Cloning site Green=Tags(s)

MSAQECLSLIKYFLFVFNLFFFVLGSLIFCFGIWILIDKTSFVSVFVGLAFVPLQIWSKVLAIISGIFTMG
 IALLGCVGALKELRCLLGLYFGMLLLL FATQITLGI L ISTQRAQLERSLRDVVEKTIQKYGTNPEETAEE
 ESWDYVQFQLRCCGWHPQDFVQLILRNGSEAHVRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARS
 RHSADICAVPAESHIYREGCAQGLQKWLHNNLISIVGICLVGGLLELGFMTLSIFLCRNLDHVVNRLARY
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6266_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001774

ORF Size: 843 bp

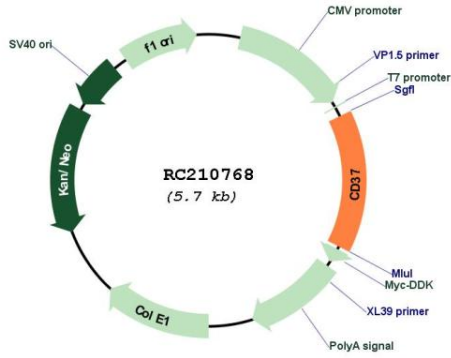
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

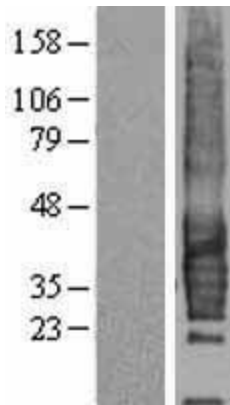
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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_001774.1</u> , <u>NP_001765.1</u>
RefSeq Size:	1263 bp
RefSeq ORF:	846 bp
Locus ID:	951
UniProt ID:	<u>P11049</u>
Cytogenetics:	19q13.33
Domains:	transmembrane4
Protein Families:	Transmembrane
Protein Pathways:	Hematopoietic cell lineage
MW:	31.7 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It may play a role in T-cell-B-cell interactions. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC210768



Western blot validation of overexpression lysate (Cat# [LY419751]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).