

Product datasheet for **RC202000**

CD9 (NM_001769) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD9 (NM_001769) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD9
Synonyms:	BTCC-1; DRAP-27; MIC3; MRP-1; TSPAN-29; TSPAN29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202000 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCAAAGGAGGCACCAAGTGCATCAAATACCTGCTGTTCCGGATTTAACTTCATCTTCTGGCTTG
CCGGGATTGCTGTCCTTGCCATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTTCGAGCA
AGAACTAATAATAAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGGAGCCGGCCCTCATG
ATGCTGGTGGCTTCTGGGCTGCTGCGGGCTGTGCAGGAGTCCAGTGCATGCTGGGACTGTTCTTCG
GCTTCTCTTGGTGATATTCGCCATTGAAATAGCTGCGGCCATCTGGGGATATCCACAAGGATGAGGT
GATTAAGGAAGTCCAGGAGTTTTACAAGGACACCTACAACAAGCTGAAAACCAAGGATGAGCCCCAGCGG
GAAACGCTGAAAGCCATCCACTATGCGTTGAACTGCTGTGGTTTGGCTGGGGCGTGGAACAGTTTATCT
CAGACATCTGCCCAAGAAGGACGTACTCGAAACCTTCACCGTGAAGTCTGTCCTGATGCCATCAAAGA
GGTCTTCGACAATAAATTCCACATCATCGGCGCAGTGGGCATCGGCATTGCCGTGGTTCATGATATTTGCC
ATGATCTTCAGTACGATCTTGCTGTGCTATCCGAGGAACCGGAGATGGTC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202000 protein sequence
Red=Cloning site Green=Tags(s)

MPVKGGTKCIKYLFFGFNFIFWLAGIAVLAIGLWLRFDSTKSIQEFQETNNNNSSFYTGVIYILIGAGALM
 MLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLTKDEPQR
 ETLKAIHYALNCCGLAGGVEQFISDIPCCKDVLETFVTKSCPDAIKEVFDNKFHIIIGAVGIGIAVVMIFG
 MIFSTILCCAIRRNREMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6011_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001769

ORF Size: 684 bp

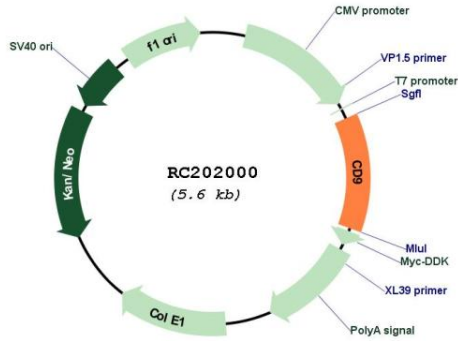
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

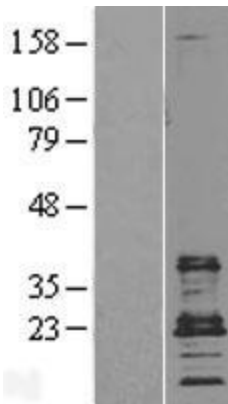
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001769.4
RefSeq Size:	1321 bp
RefSeq ORF:	687 bp
Locus ID:	928
UniProt ID:	P21926
Cytogenetics:	12p13.31
Domains:	transmembrane4
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Hematopoietic cell lineage
MW:	25.4 kDa
Gene Summary:	This gene encodes a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins are cell surface glycoproteins with four transmembrane domains that form multimeric complexes with other cell surface proteins. The encoded protein functions in many cellular processes including differentiation, adhesion, and signal transduction, and expression of this gene plays a critical role in the suppression of cancer cell motility and metastasis. [provided by RefSeq, Jan 2011]

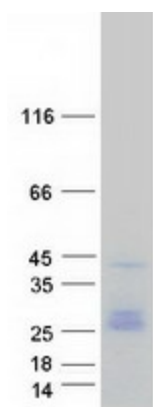
Product images:



Circular map for RC202000



Western blot validation of overexpression lysate (Cat# [LY400677]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202000 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD9 protein (Cat# [TP302000]). The protein was produced from HEK293T cells transfected with CD9 cDNA clone (Cat# RC202000) using MegaTran 2.0 (Cat# [TT210002]).