

## Product datasheet for **RC209466**

### CD26 (DPP4) (NM\_001935) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD26 (DPP4) (NM_001935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD26
Synonyms:	ADABP; ADCP2; CD26; DPPIV; TP103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC209466 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGACACCGTGAAGGTTCTTCTGGGACTGCTGGGTGCTGCTGCGCTTGTACCATCATCACCGTGC  
CGTGGTTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACAGTCGCAAAACTTACACTCTAACTGA  
TTACTTAAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATTTAGATCATGAATATCTCTAC  
AAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGAAACAGCTCAGTTTTCTGGAGAACAGTA  
CATTTGATGAGTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTTATTCTCTAGA  
ATACAACACGTGAAGCAATGGAGGCATTCCTACACAGCTTCATATGACATTTATGATTTAAATAAAAGG  
CAGCTGATTACAGAAGAGAGGATTCCAACAACACACAGTGGGCACATGGTCACCAGTGGGTACATAAT  
TGGCATATGTTTGAACAATGACATTTATGTTAAAATTGAACCAATTTACCAAGTTACAGAATCACATG  
GACGGGAAAGAAGATATAATATAATGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCC  
TACTCTGCTCTGTGGTGGTCTCCAACGGCACTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCC  
CACTTATTGAATACTCCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCC  
AAAGGCAGGAGCTGTGAATCCAACCTGTAAGGTTCTTTGTTGAAAACAGACTCTCTCAGCTCAGTCACC  
AATGCAACTTCCATACAAATCACTGCTCCTGCTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGA  
CATGGGCAACACAAGAAAGAAATTTCTTTCAGTGGCTCAGGAGGATTGAGAACTATTCGGTCATGGATAT  
TTGTGACTATGATGAATCCAGTGAAGATGGAAGTCTTAGTGGCACGGCAACACATTGAAATGAGTACT  
ACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATTTTACCCTTGATGGTAATAGCTTCTACAAGA  
TCATCAGCAATGAAGAAGTTACAGACACATTTGCTATTTCCAAATAGATAAAAAAGACTGCACATTTAT  
TACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCAAGTATTATCTATACTACATTAGTAAT  
GAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACCTTAGTACTATACAAAAGTGACAT  
GCCTCAGTTGTGAGCTGAATCCGGAAAGGTGTCAGTACTATTCTGTGTCATTGATGAAAGAGGCGAAGTA  
TTATCAGCTGAGATGTTCCGGTCTGGTCTGCCCTCTATACTCTACACAGCAGCGTGAATGATAAAGGG  
CTGAGAGTCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAAATGTCAGATGCCCTCCAAAAAAC  
TGGACTTCATTATTTGAATGAAACAAAATTTGGTATCAGATGATCTTGCTCCTCATTGATAAATC  
CAAGAAATATCCTCTACTATTAGATGTGTATGCAGGCCATGTAGTCAAAAAGCAGACACTGTCTTCAGA  
CTGAACTGGGCCACTTACCTTGAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTG  
GTTACCAAGGAGATAAGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAT  
TGAAGCAGCCAGACAATTTCAAAAATGGGATTTGTGGACAACAACGAATTTGCAATTTGGGGCTGGTCA  
TATGGAGGGTACGTAACCTCAATGGTCCTGGGATCGGGAAGTGGCGTGTCAAGTGTGGAATAGCCGTGG  
CGCCTGTATCCCGGTGGGAGTACTATGACTCAGTGTACACAGAAGCTTACATGGGTCTCCAACTCCAGA  
AGACAACCTTGACCATTACAGAAATTCACAGTCAAGCAGAGCTGAAAATTTAAACAAGTTGAGTAC  
CTCCTTATTCATGGAACAGCAGATGATAACGTTCACTTTCAGCAGTCAGCTCAGATCTCCAAAGCCCTGG  
TCGATGTTGGAGTGGATTTCCAGGCAATGTGGTATACTGATGAAGACCATGGAATAGCTAGCAGCACAGC  
ACACCAACATATATACCCACATGAGCCACTTCATAAAACAATGTTTCTCTTTACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209466 protein sequence  
Red=Cloning site Green=Tags(s)

MKTPWKVLLGLLGAAALVTIITVPVLLNKGTDADSRKTYTLTDYLNKTYRLKLYSLRWISDHEYLY  
 KQENNILVFNAEYGNSSVFLNSTFDEFHGHSINDYSISPDGQFILLEYNVYKQWRHSYASYDIYDLNKR  
 QLITEERIPNNTQWVTWSPVGHKLAYVWVNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSA  
 YSALWSPNGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVYPYKAGAVNPTVKFFVNTDLSLSSVT  
 NATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMST  
 TGWVGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKDKDCTFITKGTWEVIGIEALTSYLYYISN  
 EYKMPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYSVFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKG  
 LRVLEDNSALDKMLQNVQMPSSKLLDFIILNETKFWYQMIPLPHFDKSKKYPLLLDVYAGPCSQKADTVFR  
 LNWTYLASTENIIVASFDGRGSGYQGDIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWGS  
 YGGYVTSMLVSGSGVFKCGIAPVSRWEYDYSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEY  
 LLIHGTADDNVHFQQAQISKALVDVGVDQAMWYTDEDHGIASSTAHHQHIYTHMSHFQKQCFSLP

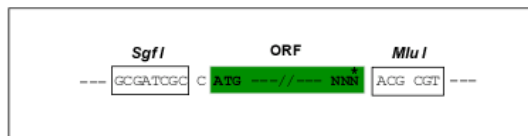
TRTRPLEQKLISEEDLANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6230\\_e02.zip](https://cdn.origene.com/chromatograms/mk6230_e02.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\_001935

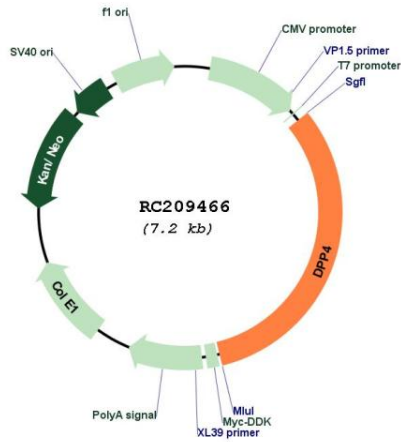
**ORF Size:** 2298 bp

**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](#)

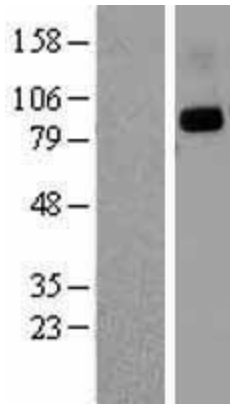
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001935.4</a>
<b>RefSeq Size:</b>	3913 bp
<b>RefSeq ORF:</b>	2301 bp
<b>Locus ID:</b>	1803
<b>UniProt ID:</b>	<a href="#">P27487</a>
<b>Cytogenetics:</b>	2q24.2
<b>Domains:</b>	Peptidase_S9, DPPIV_N_term
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane
<b>MW:</b>	88.3 kDa
<b>Gene Summary:</b>	The DPP4 gene encodes dipeptidyl peptidase 4, which is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic type II transmembrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Dipeptidyl peptidase 4 is highly involved in glucose and insulin metabolism, as well as in immune regulation. This protein was shown to be a functional receptor for Middle East respiratory syndrome coronavirus (MERS-CoV), and protein modeling suggests that it may play a similar role with SARS-CoV-2, the virus responsible for COVID-19. [provided by RefSeq, Apr 2020]

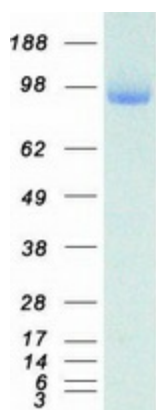
Product images:



Circular map for RC209466



Western blot validation of overexpression lysate (Cat# [LY419637]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209466 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP4 protein (Cat# [TP309466]). The protein was produced from HEK293T cells transfected with DPP4 cDNA clone (Cat# RC209466) using MegaTran 2.0 (Cat# [TT210002]).