

Product datasheet for **RG209466**

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:	TurboGFP
Symbol:	CD26
Synonyms:	ADABP; ADCP2; CD26; DPPIV; TP103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209466 representing NM_001935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACACCGTGAAGGTTCTTCTGGGACTGCTGGGTGCTGCTGCGCTTGTACCATCATCACCGTGC
 CCGTGGTTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACAGTCGCAAAACTTACACTCTAACTGA
 TTACTTAAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATTTTCAGATCATGAATATCTCTAC
 AAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGAAACAGCTCAGTTTTCTGGAGAACAGTA
 CATTTGATGAGTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTTATTCTCTAGA
 ATACAACACGTGAAGCAATGGAGGCATTCCTACACAGCTTCATATGACATTTATGATTTAAATAAAAGG
 CAGCTGATTACAGAAGAGAGGATTCCAACAACACACAGTGGGCACATGGTCACCAGTGGGTCCATAAAT
 TGGCATATGTTTGAACAATGACATTTATGTTAAAATTGAACCAATTTACCAAGTTACAGAATCACATG
 GACGGGAAAGAAGATATAATATAATGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCC
 TACTCTGCTCTGTGGTGGTCTCCAACGGCACTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCC
 CACTTATTGAATACTCCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCC
 AAAGGCAGGAGCTGTGAATCCAACCTGTAAGGTTCTTTGTTGAAAACAGACTCTCTCAGCTCAGTCACC
 AATGCAACTTCCATACAAATCACTGCTCCTGCTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGA
 CATGGGCAACACAAGAAAGAAATTTCTTTCAGTGGCTCAGGAGGATTCAGAACTATTCGGTCATGGATAT
 TTGTGACTATGATGAATCCAGTGAAGATGGAAGTCTTAGTGGCACGGCAACACATTGAAATGAGTACT
 ACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATTTTACCCTTGATGGTAATAGCTTCTACAAGA
 TCATCAGCAATGAAGAAGTTACAGACACATTTGCTATTTCCAAATAGATAAAAAAGACTGCACATTTAT
 TACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCAAGTATTATCTATACTACATTAGTAAT
 GAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACCTTAGTACTATACAAAAGTGACAT
 GCCTCAGTTGTGAGCTGAATCCGGAAGGTGTCAGTACTATTCTGTGTCATTTCAGTAAAGAGGCGAAGTA
 TTATCAGCTGAGATGTTCCGGTCTGGTCTGCCCTCTATACTCTACACAGCAGCGTGAATGATAAAGGG
 CTGAGAGTCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAAATGTCAGATGCCCTCCAAAAAAC
 TGGACTTCATTATTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTTTGATAAATC
 CAAGAAATATCCTCTACTATTAGATGTGTATGCAGGCCCATGTAGTCAAAAAGCAGACACTGTCTTCAGA
 CTGAACTGGGCCACTTACCTTGAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTG
 GTTACCAAGGAGATAAGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAT
 TGAAGCAGCCAGACAATTTTCAAAAATGGGATTTGTGGACAACAACGAATTTGCAATTTGGGGCTGGTCA
 TATGGAGGGTACGTAACCTCAATGGTCCTGGGATCGGGAAGTGGCGTGTCAAGTGTGGAATAGCCGTGG
 CGCCTGTATCCCGGTGGGAGTACTATGACTCAGTGTACACAGAAGCTTACATGGGTCTCCCAACTCCAGA
 AGACAACCTTGACCATTACAGAAATTCACAGTCATGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTAC
 CTCCTTATTCATGGAACAGCAGATGATAACGTTCACTTTCAGCAGTCAGCTCAGATCTCCAAAGCCCTGG
 TCGATGTTGGAGTGGATTTCCAGGCAATGTGGTATACTGATGAAGACCATGGAATAGCTAGCAGCACAGC
 ACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCTTTACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209466 representing NM_001935
Red=Cloning site Green=Tags(s)

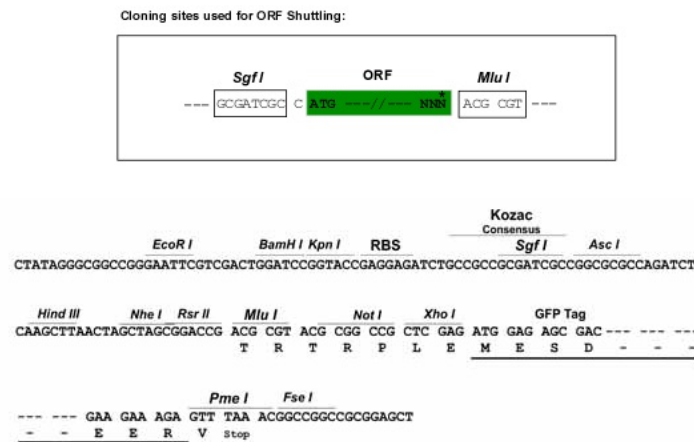
```

MKTTPWKVLLGLLGAAALVTIITVPVLLNKGTDADSRKTYTLTDYLNKTYRLKLYSLRWISDHEYLY
KQENNILVFNAEYGNSSVFLNSTFDEFHGHSINDYSISPDGQFILLEYNVYKQWRHSYASYDIYDLNKR
QLITEERIPNNTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITDWWYEEVFSA
YSALWVSPNGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVYPYKAGAVNPTVKFFVNTDSLSSVT
NATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYVMDCDYDESSGRWNCLVARQHIEMST
TGWVGRFRPSEPHFTLDGNSFYKII SNEEGYRHICYFQIDKDKDCTFITKGTWEVIGIEALTSDYLYYISN
EYKMPGGRNLYKIQLSDYTKVTVCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKG
LRVLEDNSALDKMLQNVQMPSSKKLDFIILNETKFWYQMI LPPHFDKSKKYPLLLDVYAGPCSQKADTVFR
LNWATYLASTENIIVASFDGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRIA IWGWS
YGGYVTSMLVSGSGVFKCGI AVAPVSRWEYYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEY
LLIHGTADDNVHFQQAQISKALVDVGVDQAMWYTDEDHGIASSTA HQHIYTHMSHF IKQCFSLP
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001935

ORF Size: 2298 bp

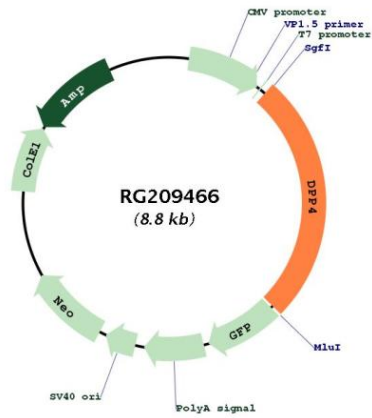
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

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_001935.4
RefSeq Size:	3913 bp
RefSeq ORF:	2301 bp
Locus ID:	1803
UniProt ID:	P27487
Cytogenetics:	2q24.2
Domains:	Peptidase_S9, DPPIV_N_term
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	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 RG209466