

## Product datasheet for **RC224465**

### DPP9 (NM\_139159) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DPP9 (NM_139159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP9
Synonyms:	DP9; DPLP9; DPP IX; DPRP-2; DPRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC224465 representing NM\_139159  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGACGCCACAGATGACCCGGCCGCCCGCT  
 TCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCT  
 CATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCAGAAGACGGATGAGTCTGGGCCCACTCCAC  
 CGCCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAATCCCTCCTCTACTCTGAGATTCCCAAGA  
 AGGTCCGAAAGAGGCTCTGCTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGCCACGCCCA  
 CCATGGGTCTACTCTCGGGAGGAGGCTGCTGAGGGAGCGAAACGCCTGGGGTCTTCGGCATCACC  
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 ACGGCGCAAGAACGGCTTCATGGTGTCCCTATGAAACCGCTGAAAATCAAGACCCAGTCTCAGGCC  
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 GGGCAAGATCGTCTGACCCAGGAGAAGGAGCTGGTGCAGCCCTCAGCTCGTGTTCGGAAGTGGAG  
 TACATCGCCAGGGCCGGTGGACCCGGGATGGCAAATACGCTGGGCCATGTTCTGGACCGGCCCAGC  
 AGTGGCTCCAGCTCGTCTCCTCCCGGCCCTGTTTCATCCGAGCACAGAGAATGAGGACAGCGGGCT  
 AGCCTCTGCCAGAGCTGTCCCAGGAATGTCAGCCGTATGTGGTGTACGAGGAGTCAACCAACGTCTGG  
 ATCAATGTTTCATGACATCTTCTATCCCTTCCCAATCAGAGGGAGAGGACGAGCTCTGTTTCTCCGCG  
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 ACGTTGCTGCACTTTCTACAGGAATACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224465 representing NM\_139159  
 Red=Cloning site Green=Tags(s)

MATTGTPTADRGDAAATDDPAARFQVQKHSWDGLRSIIHGSRKYSGLIVNKAPHDFQFVQKTDESGPHSH  
 RLYYLGMPPYGSRENSLLYSEIPKKVRKEALLLLSWKQMLDHFQATPHHGVYSREEELLRERKRLGVFGIT  
 SYDFHSESGFLFLFQASNSLFHCRDGGKNGFMVSPMKPLEIKTQCSGPRMDPKICPADPAFFSFINNSDLW  
 VANIETGEERRLTFCHQGLSNVLDLDPKAGVATFVIQEEFDRFTGYWWCPTASWEGSEGLKTLRILYEEV  
 DESEVEVIHVSPALAEERKTDSYRYPRTGSKNPKIALKLAEFQTD SQGKIVSTQEKELVQPFSSLPFKVE  
 YIARAGWTRDGKYAWAMFLDRPQQWLQLVLLPPALFIPSTENEEQRLASARAVPRNVQPYVYVEEVTNVW  
 INVHDIYFPFQSEGEDELFLRANECKTGFCCHLYKVTAVLKSQGYDWSEPFSPGEDEFKCPKEEIALT  
 SGWEVLARHGSKGKTDTPLEHLLYVVSYEAAAGEIVRLTTPGF SHSCSMSQNFDMFVSHYSSVSTPPCVH  
 VYKLSGPDPLHKQPRFWASMMEAASCPPDYVPPEIFHFHTRSDVRLYGM IYKPHALQPGKKHPTVLFV  
 YGGPQVQLVNNSFKGIKYLRLNTLASLGYAVVVIDGRGSCQRGLRFEGALKNQMGQVEIEDQVEGLQFVA  
 EKYGFIDL SRVAIHGWSYGGFLSLMGLIHKPQVFKVAIAGAPVTVMAYDTGYTERYMDVPENNHQGYEA  
 GSV ALHVEKLPNEPNRLLILHGFLDENVHFFHTNFLVSQLIRAGKPYQLQIYPNERHSIRCPESEGEHYEV  
 TLLHFLQEYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mg4834\\_a01.zip](https://cdn.origene.com/chromatograms/mg4834_a01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

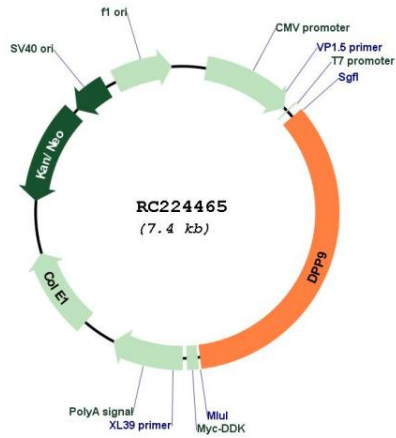
Cloning sites used for ORF Shuttling:



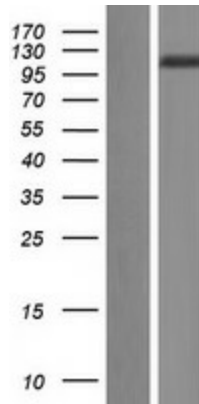
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_139159
<b>ORF Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_139159.3</a> , <a href="#">NP_631898.2</a>
<b>RefSeq Size:</b>	4274 bp
<b>RefSeq ORF:</b>	2679 bp
<b>Locus ID:</b>	91039
<b>UniProt ID:</b>	<a href="#">Q86T12</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	Peptidase_S9, DPPIV_N_term
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	96.4 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a member of the S9B family in clan SC of the serine proteases. The protein has been shown to have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Although the activity of this protein is similar to that of dipeptidyl peptidase 4 (DPP4), it does not appear to be membrane bound. In general, dipeptidyl peptidases appear to be involved in the regulation of the activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. Several transcript variants of this gene have been described but not fully characterized. [provided by RefSeq, Jul 2008]

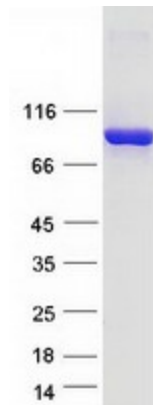
Product images:



Circular map for RC224465



Western blot validation of overexpression lysate (Cat# [LY403380]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224465 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP9 protein (Cat# [TP324465]). The protein was produced from HEK293T cells transfected with DPP9 cDNA clone (Cat# RC224465) using MegaTran 2.0 (Cat# [TT210002]).