

Product datasheet for **RG224465**

DPP9 (NM_139159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP9 (NM_139159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPP9
Synonyms:	DP9; DPLP9; DPP IX; DPRP-2; DPRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG224465 representing NM_139159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGACGCCACAGATGACCCGGCCGCCCGCT
 TCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCT
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 AGGTCCGAAAGAGGCTCTGCTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGCCACGCCCA
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 CCAGCTCCAGATCTACCCAACGAGAGACAGTATTCGCTGCCCGAGTCGGGCGAGCACTATGAAGTC
 ACGTTGCTGCACTTTCTACAGGAATACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

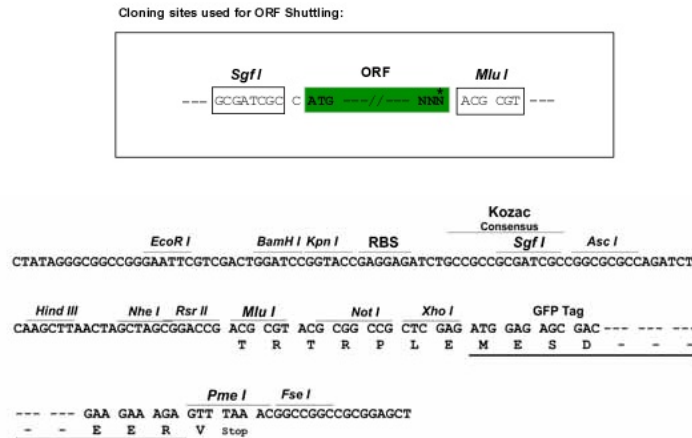
Protein Sequence: >RG224465 representing NM_139159
Red=Cloning site Green=Tags(s)

MATTGTPTADRGDAAATDDPAARFVQKHSWDGLRSIIHGSRKYSGLIVNKAPHDFQFVQKTDESGPHSH
RLYYLGMPYGSRENSLLYSEIPKKVRKEALLLSWKQMLDHFQATPHHGVYSREEELLRERKRLGVFGIT
SYDFHSESGFLFLFQASNSLFHCRDGGKNGFMVSPMKPLEIKTQCSGPRMDPKICPADPAFFSFINNSDLW
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DESEVEVIHVSPALERKTDSYRYPRTGSKNPKIALKLAEFQTD SQGKIVSTQEKELVQPFSSLPKVE
YIARAGWTRDGKYAWAMFLDRPQQWLQLVLLPPALFIPSTENEEQLASARAVPRNVQPYVYVEEVTNVW
INVHDIYFPFPQSEGEDEL CFLRANECKTGFCCHLYKVTAVLKSQGYDWSEPFSPGEDEFKCPKEEIALT
SGEWEVLARHGSKGKTDTPLHHLVYVSYEAAGEIVRLTTPGF SHSCSMSQNFDMFVSHYSSVSTPPCVH
VYKLSGPDDDLHKQPRFWASMMEAASCPPDYVPPEIFHFHTRSDVRLYGMIIYKPHALQPGKKHPTVLFV
YGGPQVQLVNNSFKGIKYLRLNTLASLGYAVVVIDGRGSCQRGLRFEGALKNQMGQVEIEDQVEGLQFVA
EKYGFIDL SRVAIHGWSYGGFLSLMGLIHKPQVFKVAIAGAPVTVMAYDTGYTERYMDVPENNHG YEA
GSVALHVEKLPNEPNRLLILHGFLDENVHFFHTNFLVSQLIRAGKPYQLQIYPNERHSIRCPESEGEHYEV
TLLHFLQEYL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_139159

ORF Size: 2550 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:

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: [NM_139159.3](#), [NP_631898.2](#)

RefSeq Size: 4274 bp

RefSeq ORF: 2679 bp

Locus ID: 91039

UniProt ID: [Q86TI2](#)

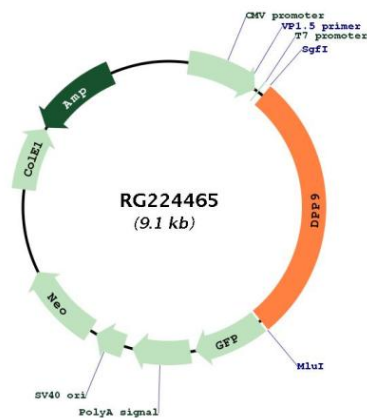
Cytogenetics: 19p13.3

Domains: Peptidase_S9, DPPIV_N_term

Protein Families: Druggable Genome, Protease

Gene Summary: 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 RG224465