

Product datasheet for **RC221126**

DPP8 (NM_197960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP8 (NM_197960) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP8
Synonyms:	DP8; DPRP-1; DPRP1; MST097; MSTP097; MSTP135; MSTP141
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC221126 representing NM_197960
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGAAGAGATCTGAGCAGATGAAAATAAAATCAGAAAAATGCAACATGGCAGCAGCAATGGAACAG
 AACAGCTGGTGTGAGATATTTGAAACTGCGGACTGTGAGGAGAATATTGAATCACAGGATCGGCCTAA
 ATTGGAGCCTTTTATGTTGAGCGGTATTCCTGGAGTCAGCTTAAAAAGCTGCTTGCCGATACCAGAAAA
 TATCATGGCTACATGATGGCTAAGGCACCACATGATTTTCATGTTGTGAAGAGGAATGATCCAGATGGAC
 CTCATTACAGACAGAATCTATTACCTTGCCATGTCTGGTGAGAACAGAGAAAAACACTGTTTTATTCTGA
 AATCCCAAACTATCAATAGAGCAGCAGTCTTAATGCTCTCTTGGAGCCTCTTTGGATCTTTTTTCAG
 GCAACTGGACTATGGAATGTATTCTCGAGAAGAAGAACTTAAGAGAAAAGAAAACGCATTGGAACAG
 TCGGAATTGCTTCTACGATTATCACCAAGGAAGTGAACATTTCTGTTCAAGCCGGTAGTGAATTTA
 TCACGTAAGAGATGGAGGCCACAAGGATTTACGCAACAACCTTAAAGGCCAATCTAGTGGAACTAGT
 TGTCCTCAACATACGGATGGATCCAAAATATGCCCTGCTGATCCAGACTGGATTGCTTTTATACATAGCA
 ACGATATTTGGATATCTAACATCGTAACCAGAGAGAAAGGAGACTCACTTATGTGCACAATGAGCTAGC
 CAACATGGAAGAAGATGCCAGATCAGCTGGAGTCGCTACCTTTGTTCTCCAAGAAGAATTTGATAGATAT
 TCTGGCTATTGGTGGTGTCCAAAAGCTGAAACAACCTCCAGTGGTGGTAAAAATCTTAGAATCTATATG
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 GATGCTGAAGGAAGGATCATAGATGTATAGATAAGGAACAACTCAACCTTTGAGATTCTATTTGAAG
 GAGTTGAATATATTGCCAGAGCTGGATGGACTCCTGAGGAAAAATGCTTGGTCCATCTACTAGATCG
 CTCCAGACTCGCTACAGATAGTGTGATCTCACCTGAATTTATCCAGTAGAAGATGATGTTATG
 GAAAGGCAGAGACTCATTGAGTCAGTGCCTGATTCTGTGACGCCACTAATTATCTATGAAGAAAACAACAG
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 TTACCAGTGGTGAATGGGAAGTCTTGGCCGCATGGATCTAATATCCAAGTTGATGAAGTCAGAAGGCT
 GGTATATTTTGAAGGCACCAAAGACTCCCTTTAGAGCATCACCTGTACGTAGTCAGTTACGTAATCCT
 GGAGAGGTGACAAGGCTGACTGACCGTGGCTACTCACATCTTGTGTCATCAGTCAGCACTGTGACTTCT
 TTATAAGTAAGTATAGTAACCAGAAGAATCCACACTGTGTGCCCTTACAAGCTATCAAGTCTGAAGA
 TGACCCAACCTTGCAAAAACAAAGGAATTTGGGCCACCATTTGGATTTCAGCAGGTCCTCTTCTGACTAT
 ACTCTCCAGAAATTTCTTTTTGAAAGTACTACTGGATTTACATTGTATGGGATGCTCTACAAGCCTC
 ATGATCTACAGCCTGAAAGAAATATCCTACTGTGCTGTTTCATATATGGTGGTCCCTCAGGTGCAGTTGGT
 GAATAATCGGTTTAAAGGAGTCAAGTATTTCCGCTTGAATACCCTAGCCTCTCTAGGTTATGTGGTTGTA
 GTGATAGACAACAGGGGATCCTGTCACCGAGGGCTTAAATTTGAAGGCGCCTTAAATATAAAATGGGTC
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 TCGTGTGGGCATCCACGGCTGGTCTATGGAGGATACCTCTCCCTGATGGCATTAAATGCAGAGGTCAGAT
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 GTTCCCTCTGAACCAAATCGTTTACTGCTTACATGGTTTCTGGATGAGAATGTCCATTTTGCACAT
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 GACACAGCATAAGAGTTCCTGAATCGGGAGAACATTATGAACTGCATCTTTGCACTACCTCAAGAAAA
 CCTTGGATCACGTATTGCTGCTCTAAAAGTGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221126 representing NM_197960
 Red=Cloning site Green=Tags(s)

MWKRSEQMKIKSGKCNMAAAMETEQLGVEIFETADCEENIESQDRPKLEPFYVERYWSQLKLLADTRK
 YHGYYMAKAPHDFMFVVRNDPDGPHSDRIYYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPLDLFQ
 ATLDYGMYSREEELLRERKRIGTVGIASDYHQSGTFLFQAGSGIYHVKDGGPQGTQQPLRPNLVETS
 CPNIRMDPKLCPADPDWIAFIHSNDIWIWSNIIVTREERRLYVHNELANMEEDARSAGVATFVLQEEFDY
 SGYWWCPKAETTPSGGKILRILYEENDESEVEIIHVTSPLLETRRADSFYPKTGTANPKVTFKMSEIMI
 DAEGRIIDVIDKELIQPFEILFEGVEYIARAGWTPEGKYAWSILLDRSQTRLQIVLISPELFIPEVDDVM
 ERQRLIESVPDSVTPLIIEEETTDIWINIHDIFHVFPQSHEEEIEFIFASECKTGFRHLYKITSILKESK
 YKRSSGGLPAPSDFKCPIKEEIAITSGEWEVLGRHGSNIQVDEVRRLVYFEGTKDSPLEHHLVYVSYVNP
 GEVTRLTDRGYSHSCCISQHCDFFIKYSNQKNPHCVSLYKLSPEDDPTCKTKEFWATILDSAGPLPDY
 TPPEIFSFEFTTGFTLYGMLYKPHDLQPGKKYPTVLFYGGPQVQLVNNRFKGVKYFRLNLTASLGYVVV
 VIDNRGSHRGLKFEGAFKYKMGQIEIDDQVEGLQYLASRYDFIDLDRVGIHGWSYGGYLSLMALMQRSD
 IFRVAIAGAPVTLWIFYDTGYTERYMGHPDQNEQGYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAH
 TSILLSFLVRAGKPYDLQIYPQERHSIRVPESGEHYELHLLHLYLQENLGSRIAALKVI

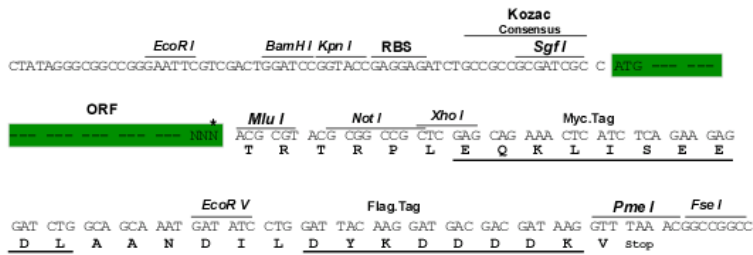
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1859_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

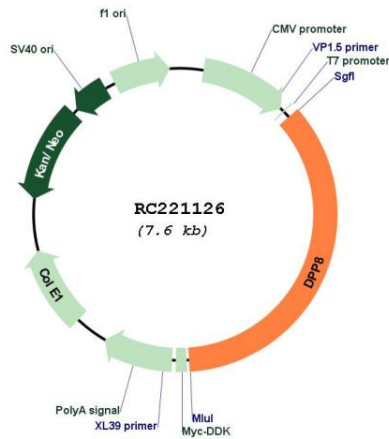
ACCN: NM_197960

ORF Size:	2694 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
RefSeq:	NM_197960.4
RefSeq Size:	3055 bp
RefSeq ORF:	2697 bp
Locus ID:	54878
UniProt ID:	Q6V1X1
Cytogenetics:	15q22.31
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	103.2 kDa

Gene Summary:

This gene encodes a member of the peptidase S9B family, a small family of dipeptidyl peptidases that are able to cleave peptide substrates at a prolyl bond. The encoded protein shares similarity with dipeptidyl peptidase IV in that it is ubiquitously expressed, and hydrolyzes the same substrates. These similarities suggest that, like dipeptidyl peptidase IV, this protein may play a role in T-cell activation and immune function. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221126