

## Product datasheet for **RC214685**

### **DPP8 (NM\_130434) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP8 (NM_130434) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC214685 representing NM\_130434  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCAGCAATGAAACAGAACAGCTGGTGTGAGATATTTGAACTGCGGACTGTGAGGAGAATA  
 TTGAATCACAGGATCGGCCTAAATTGGAGCCTTTTTATGTTGAGCGGTATTCCTGGAGTCAGCTTAAAAA  
 GCTGCTTGCCGATACCAGAAAATATCATGGCTACATGATGGCTAAGGCACCACATGATTTTCATGTTTGTG  
 AAGAGGAATGATCCAGATGGACCTCATTAGACAGAATCTATTACCTTGCCATGTCTGGTGAACACAGAG  
 AAAATACACTGTTTTATTCTGAAATTCCTAAAATCAATAGAGCAGCAGTCTTAATGCTCTCTTGAA  
 GCCTCTTTGGATCTTTTCAGGCAACTGGACTATGGAATGTATTCTCGAGAAGAAGAACTATTAAGA  
 GAAAGAAAACGCATTGGAACAGTCGGAATTGCTTCTTACGATTATACCAAGGAAGTGAACATTTCTGT  
 TTCAAGCCGGTAGTGAATTTATCACGTAAGATGGAGGGCCACAAGGATTTACGCAACAACCTTTAAG  
 GCCAATCTAGTGAAACTAGTTGTCCCAACATACGGATGGATCCAAAATATGCCCTGCTGATCCAGAC  
 TGGATTGCTTTATACATAGCAACGATATTTGGATATCTAACATCGTAACAGAGAAGAAAGGAGACTCA  
 CTTATGTGCACAATGAGCTAGCCAAACATGGAAGAAGATGCCAGATCAGCTGGAGTCGCTACCTTTGTTCT  
 CCAAGAAGAATTTGATAGATATTCTGGCTATTGGTGGTGTCCAAAAGCTGAAACAACCTCCAGTGGTGGT  
 AAAATTCTTAGAATCTATATGAAGAAAATGATGAATCTGAGGTGGAATTTATTCATGTTACATCCCTTA  
 TGTTGGAAACAAGGAGGGCAGATTCATTCGGTTATCCTAAAACAGGTACAGCAATCCTAAAGTCACTTT  
 TAAGATGTCAGAAATAATGATTGATGCTGAAGGAAGGATCATAGATGTCATAGATAAGGAACAAATCAA  
 CCTTTTGAGATTCTATTTGAAGGAGTTGAATATATTGCCAGAGCTGGATGGACTCCTGAGGAAAAATG  
 CTTGGTCCACTACTAGATCGCTCCAGACTCGCCTACAGATAGTGTGATCTCACCTGAATTTATTTAT  
 CCCAGTAGAAGATGATGTTATGGAAGGACAGAGACTCATTGAGTCAGTGCCTGATTCTGTGACGCCACTA  
 ATTATCTATGAAGAAAACAACAGACATCTGGATAAATATCCATGACATCTTTCATGTTTTTCCCAAAGTC  
 ACGAAGAGGAAATGAGTTTATTTTTGCCTCTGAATGCAAAAACAGGTTTCCGTCATTTATACAAAATTAC  
 ATCTATTTTAAAGGAAAGCAAATATAAACGATCCAGTGGTGGGCTGCCTGCTCCAAGTATTTCAAGTGT  
 CCTATCAAAGAGGAGATAGCAATTACCAGTGGTGAATGGGAAGTCTTGCCGGCATGGATCTAATATCC  
 AAGTTGATGAAGTCAGAAGGCTGGTATATTTGAAGGCACCAAAGACTCCCCTTTAGAGCATCACCTGTA  
 CGTAGTCAGTTACGTAATCCTGGAGAGGTGACAAGGCTGACTGACCGTGGCTACTCACATTCTTGCTGC  
 ATCAGTCAGCACTGTGACTTCTTTATAAGTAAGTATAGTAACCAGAAGAATCCCACTGTGTGCCCTTT  
 ACAAGCTATCAAGTCTGAAGATGACCCAACTGCAAAAACAAGGAATTTGGGCCACCATTTGGATTC  
 AGCAGGTCCTCTTCTGACTATACTCCTCCAGAAATTTCTCTTTTGAAGTACTACTGGATTTACATTG  
 TATGGGATGCTCTACAAGCCTCATGATCTACAGCCTGAAAGAAATATCCTACTGTGCTGTTTCATATATG  
 GTGGTCTCAGGTGCAGTTGGTGAATAATCGGTTTAAAGGAGTCAAGTATTTCCGCTTGAATACCCTAGC  
 CTCTCTAGGTTATGTGGTTGTAGTGATAGACAACAGGGGATCCTGTCACCGAGGGCTTAAATTTGAAGGC  
 GCCTTTAAATATAAAATGGGTCAAATAGAAATTGACGATCAGGTGGAAGGACTCCAATATCTAGCTTCTC  
 GATATGATTTTATTGACTTAGATCGTGTGGCATCCACGGCTGGTCTATGGAGGATACCTCTCCCTGAT  
 GGCATTAATGCAGAGTCAAGATATCTTCAGGTTGCTATTGCTGGGGCCCACTCACTCTGTGGATCTTC  
 TATGATACAGGATACACGGAACGTTATATGGGTACCCTGACCAGAATGAACAGGGCTATTACTTAGGAT  
 CTGTGGCCATGCAAGCAGAAAAGTTCCCTCTGAACCAAATCGTTTACTGCTTACATGGTTTCTGGA  
 TGAGAATGTCCATTTGACATACCAGTATATTACTGAGTTTTTTAGTGAGGGCTGGAAAGCCATATGAT  
 TTACAGATCTATCCTCAGGAGAGACACAGCATAAGAGTTCCTGAATCGGGAGAACATTATGAACTGCATC  
 TTTTGCCTACCTTCAAGAAAACCTTGGATCACGATTGCTGCTCTAAAAGTGATA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214685 representing NM\_130434  
 Red=Cloning site Green=Tags(s)

MAAAMETEQLGVEIFETADCEENIESQDRPKLEPFYVERYSWSQLKLLADTRKYHGYYMAKAPHDFMFV  
 KRNDPDGPHSDRIYYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPLLDLFDQATLDYGMYSREEELLR  
 ERKRIGTVGIASYDYHQSGTFLFQAGSGIYHVKGGPQGFTQQPLRPNLVETSCPNI RMDPKLCPADPD  
 WIAFIHSNDIWI SNIVTREERRLTYVHNELANMEEDARSAGVATFVLQEEFD RYSGYWWCPKAETTPSGG  
 KILRILYEENDESEVEIIHVTSPMLETRRADSF RYPKTGTANPKVTFK MSEIMIDAEGRIIDVIDKELIQ  
 PFEILFEGVEYIARAGWTPEGKYAWSILLDRSQTRLQIVLISPELFI PVEDDVMERQRLIESVPDSVTP  
 IYEEETDIWINIHDIFHVFPQSHEEEIEFIFASECKTGFRHLYKITSILKESKYKRSSGGLPAPSDFKC  
 PIKEEIAITSGEWEVLGRHGSNIQVDEVRRLVYFEGTKDSPLEHHLVYVSYVNPGEVTRLTDRGYSHSCC  
 ISQHCDFFI SKYSNQKNPHCVSLYKLSPEDDPTCKTKEFWATILDSAGPLPDYTPPEIFSFESTTGFTL  
 YGMLYKPHDLQPGKKYPTVLFYGGPQVQLVNNRFKGVYFRLNLTASLGYVVVVIDNRGSCRGLKFEG  
 AFKYKMGQIEIDDQVEGLQYLASRYDFIDLDRVGIHGWSYGGYLSLMALMQRSDIFRVAIAGAPVTLWIF  
 YDTGYTERYMGHPDQNEQGYYLGSVAMQAEKFPSEPNRLLLHGF LDENVHFAHTSILL SFLVRAGKPYD  
 LQIYPQERHSIRVPESGEHYELHLLHLYQENLGSRIAALKVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6112\\_b10.zip](https://cdn.origene.com/chromatograms/mk6112_b10.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

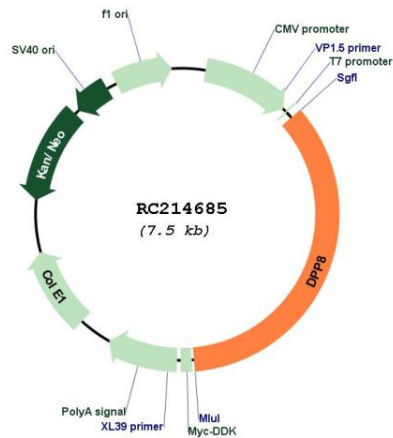
Cloning sites used for ORF Shuttling:



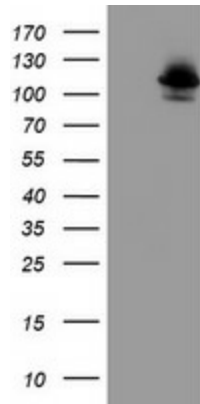
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_130434
<b>ORF Size:</b>	2646 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>RefSeq:</b>	<a href="#">NM_130434.5</a>
<b>RefSeq Size:</b>	3146 bp
<b>RefSeq ORF:</b>	2649 bp
<b>Locus ID:</b>	54878
<b>UniProt ID:</b>	<a href="#">Q6V1X1</a>
<b>Cytogenetics:</b>	15q22.31
<b>Domains:</b>	Peptidase_S9, DPPIV_N_term
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>MW:</b>	101.2 kDa
<b>Gene Summary:</b>	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]

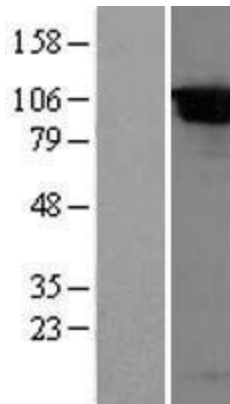
Product images:



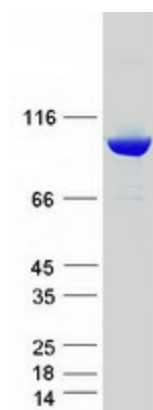
Circular map for RC214685



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DPP8 (Cat# RC214685, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DPP8 (Cat# [TA504366]). Positive lysates [LY403323] (100ug) and [LC403323] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403323]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214685 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP8 protein (Cat# [TP314685]). The protein was produced from HEK293T cells transfected with DPP8 cDNA clone (Cat# RC214685) using MegaTran 2.0 (Cat# [TT210002]).