

## Product datasheet for **RC219658**

### **DPP3 (NM\_005700) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP3 (NM_005700) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP3
Synonyms:	DPPIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC219658 representing NM\_005700  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGACACCCAGTACATCTGCCCAATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCCTTCC  
 GCCTGCTGTACCCACAGAGCGCCTCTATGCCTACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCCTGGC  
 TGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCTATGCTCTGCTCAGCCGCCTCTTCCGCGCCAG  
 GACCCCGACAGCTGCGCCAACATGCCCTGGTGAAGGCCTTACCGAGGAGGAGTATCAGGCGTTCTCGG  
 TCTATGCCGCGGGTGTACTCCAACATGGGCACTACAAGTCTTTGGTGACACCAAGTTTGTCCCAA  
 CTTGCCAAAGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGCAGACCCAGAAGAAGTC  
 AGGGCCCTCTGCCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGACACCTCGGACTGG  
 GGAAGGAGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATGGCCAGGACTT  
 TCTGGACTCACAGAACCTCAGTGCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGCCC  
 TACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCTGGACTCTGAGGTGACTTCCAAGC  
 TGAAGAGCTATGAATCCGGGGAAGCCCTTCCAGGTGACCCGGGGGACTACGCCCCATCCTCCAGAA  
 GGTGGTGGAGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGAGATGCTGGCCAG  
 TATATAGAGAGCTTACCCAGGGCTCCATCGAGGCCCAAGAGGGGCTCCCGCTTCTGGATCCAGGACA  
 AAGGCCCATCGTGGAGAGTTACATCGGGTTCATCGAGAGCTACCGGACCCCTTTGGTTCCCGAGGAGA  
 ATTTGAAGTTTCGTAGCTGTGGTGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCA  
 GAGCAGCTGTGAAGGAGCTGCCCTGGCCCCAACCTTTGAGAAGGACAAGTTCTCACCCCTGACTTCA  
 CCTCCCTGGATGTTCTCACCTTCGCTGGCTCCGGCATCCCTGCCGGCATCAACATCCCCAACTACGATGA  
 TCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCGCTGGGGAATGTGCTGGCTGTGGCTACGCCACGCGAG  
 CGGGAGAAGCTTACCTTCTGGAGGAGGATGACAAGGACCTGTACATCCTCTGGAAGGGGCCCTCCTTCG  
 ATGTGCAGGTGGGCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGCTTTCGTACAGGACGAAAAAGG  
 AGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGATTAGAGCTGGTATCGG  
 AGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCTCCAGCTACGAAGAGTGCCGGGCTGAGAGCG  
 TGGGTCTACCTCTGTCTCCACCCGAAGTGTGGAGATCTTTGGCTTTGAGGGGGCTGATGCGGAGGA  
 CGTGATCTACGTGAAGTGGCTCAACATGGTTCGGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTGAG  
 GCCTTCAACTGGCGACAGGCCATATGCAGGCCGGTTTGTGATCCTGAGAGTCTTGTGGAGGCTGGCG  
 AGGGACTCGTTACCATCACTCCCACCACAGGCTCCGATGGGCGCCAGATGCCCGGGTCCGCTCGACCG  
 CAGCAAGATCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAAGTGTGAAGTCC  
 ACAGGGGATGTGGCCGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGT  
 GCTTCTCACCCCTCAGGGACAGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTACGCCAACAC  
 TCGCCTTGAAGGCTCAGACGTGCAGTCTGGAATACGAGGCGTCAGTGTGCTGCTCATCCGATCCTTC  
 TCTGAGCGTTTCCAGAGGATGGACCCGAGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCC  
 GATTCTGGAAGGGCCCCAGTGAGGCCCATCTGGCCAAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219658 representing NM\_005700  
 Red=Cloning site Green=Tags(s)

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQ  
 DPDQLRQHALAEGLTEEEYQAFVYAAGVYSNMGNYSFGDTKFPNLPKEKLERVILGSEAAQQHPPEEV  
 RGLWQTCGELMFSLERLRLHGLGKEGITTYFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKP  
 YIEVRLASVLGSEPSLDSEVTSKLKSIEYFRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGMALAQ  
 YIESFTQGSIEAHKGRSRFWIQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASA  
 EQLLKELPWPPTFEKDKFLTPDFTSLDVLTAFAGSGIPAGINIPNYDDLRTQTEGFKNVSLGNVLAVAYATQ  
 REKLTFLLEDDKDLIILWKGPSFDVQVGLHELLGHGSGKLFVQDEKGFNFDQETVINPETGEQIQSWYR  
 SGETWDSKFSTIASSYEECRAESVGLYLCLHPQVLEIFGFEGADAEDVIYVNWLNVMVRAGLLALEFYTPE  
 AFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGS DGRPDARVRLDRSKIRSVGKPALERFLRRLQVLKS  
 TGDVAGGRALYEGYATVDAPPECFLTRDVTLLRKESRKLIVQPNTRLEGSDVQLLEYEASAAGLIRSF  
 SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6252\\_d05.zip](https://cdn.origene.com/chromatograms/mk6252_d05.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\_005700

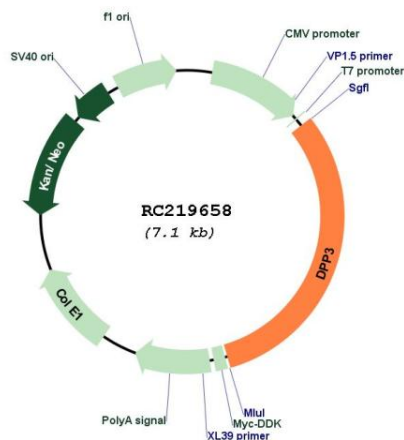
**ORF Size:** 2211 bp

**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](#)

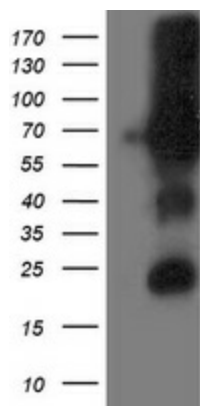
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u><a href="#">NM_005700.2</a></u> , <u><a href="#">NP_005691.2</a></u>
<b>RefSeq Size:</b>	2684 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	10072
<b>UniProt ID:</b>	<u><a href="#">Q9NY33</a></u>
<b>Cytogenetics:</b>	11q13.2
<b>Domains:</b>	Peptidase_M49
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	82.4 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a member of the M49 family of metallopeptidases. This cytoplasmic protein binds a single zinc ion with its zinc-binding motif (HELLGH) and has post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Increased activity of this protein is associated with endometrial and ovarian cancers. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2012]

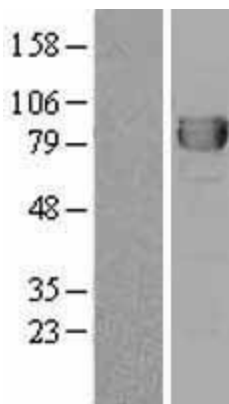
Product images:



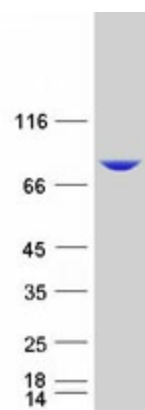
Circular map for RC219658



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DPP3 (Cat# RC219658, 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-DPP3 (Cat# [TA503242]). Positive lysates [LY417120] (100ug) and [LC417120] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417120]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219658 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP3 protein (Cat# [TP319658]). The protein was produced from HEK293T cells transfected with DPP3 cDNA clone (Cat# RC219658) using MegaTran 2.0 (Cat# [TT210002]).