

## Product datasheet for **MR222697**

### Dpp4 (NM\_010074) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dpp4 (NM_010074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dpp4
Synonyms:	Cd26; Dpp-4; THAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR222697 representing NM\_010074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGACACCGTGAAGGTTCTTCTGGGACTGCTTGGTGTGCGCTGCGCTTGTACCATCATCACCGTGC  
 CAATAGTTCTGCTGAGCAAAGATGAAGCGGCAGCTGACAGCCGCAGAACGTATTTCACTAGCTGACTATTT  
 AAAGAGTACTTTTCGGGTCAAGTCTACTCTTTGTGGTGGGTTTCAGACTTTGAATACCTCTACAAACAA  
 GAGAACAATATCTTGCTGCTCAATGCTGAACATGGAAACAGCTCCATTTTCTGGAGAACAGTACCTTTG  
 AAAGCTTTGGATATCATTCAAGTGTACCTGACCGACTGTTTGTCTCTTGGAAATACAACACTACGTGAAGCA  
 ATGGAGACATTCACACAGCTTCATACAACATTTATGATGTGAATAAAAGACAGCTGATCACAGAAGAG  
 AAGATCCAAATAATACACAGTGGATCACATGGTACCAGAAGGTATAAGTTGGCATATGTCTGGAAGA  
 ATGATATTTACGTTAAAGTTGAACCACACTTACCTAGTCATAGGATCACATCGACAGGAGAAGAAAATGT  
 AATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCGGTGCCTACTCTGCACTGTGGTGG  
 TCTCCAAACAACAGCTTTCTAGCTTATGCCAGTTTAAACGACACAGGAGTGCCGCTCATTGAATACTCCT  
 TCTATTCTGATGAGTCACTGCAGTACCCAAAGACAGTGTGGATCCATACCCAAAGGCAGGAGCTGTGAA  
 TCCAACGTAAAGTTCTTTATTGTAATAATAGACTCTCTCAGCTCATCTCTAGTGCGGCTCCCATCCAA  
 ATCCCTGCTCCTGCATCTGTGGCAAGAGGGGATCACTATTTATGTGATGTGGTGTGGGCTACAGAAGAAA  
 GAATTTCACTACAGTGGCTCAGGAGGATTCAGAACTATTCGGTATGGCTATCTGTGACTATGATAAGAT  
 CAACCTAACGTGGAACGTCCATCCGAGCAGCAGCATGTTGAAATGAGTACCACAGGCTGGGTCGGAAGA  
 TTTAGGCCCGCAGAACCTCACTTCACTCTGATGGAAGCAGCTTCTATAAGATCATCAGCGACAAAGATG  
 GCTACAAACACATCTGCCACTTCCCGAAAGATAAGAAAGACTGTACATTTATTACAAAAGGAGCCTGGGA  
 AGTCATTAGTATCGAAGCTCTGACCAGGATTATCTATACTACATTAGTAACCAATATAAAGAAAATGCCA  
 GGAGGAAGAAATCTCTATAAAATTCAACTTACTGACCACACAAATGTGAAGTGCCTTAGTTGTGACCTGA  
 ATCCAGAAAGATGTCAGTATTATGCGGTATCATTTAGTAAAGAGGCAAAGTACTATCAGCTGGGATGTTG  
 GGGCCCCGGTCTGCCCTCTACACTCTACATCGTAGCACGGATCATAAAGAGCTGCGAGTCTGGAAGAC  
 AATTCTGCTTTGGATAGAATGCTGCAGGATGTCCAGATGCCTTCAAAAAAATTGGACTTCATTGTTTTGA  
 ATGAAACAAGATTTTGGTATCAAATGATCTTGCCCCCTCATTTTGATAAATCCAAGAAATATCCTCTACT  
 ATTAGATGTATATGCAGGTCCCTGTAGTCAAAAAGCAGATGCTTCCTTCCAGACTGAACTGGGCCACTTAC  
 CTTGCAAGTACAGAAAACATCATAGTAGCTAGCTTTGACGCGCAGAGGAAGTGGTTACCAAGGAGATAAGA  
 TCATGCATGCAATCAACAGAAGATTGGGAACACTGGAAGTTGAAGATCAAATTGAAGCAGCCAGGCAATT  
 TGTAAAAATGGGATTTGTGGATAGCAAGCGAGTTGCAATTTGGGGCTGGTTCATATGGAGGGTATGTAACC  
 TCAATGGTCTGGGATCGGGAAGTGGCGTGTTCAGTGCAGGAAATAGCTGTGGCACCTGTGTACGGTGGG  
 AGTACTATGACTCAGTGTACACAGAGCGTTACATGGGTCTCCCAATTCAGAAGACAACCTTGACCATTA  
 CAGGAACCAACAGTCATGAGCAGAGCTGAACATTTTAAACAAGTTGAGTACCTCCTTATTCATGGAACG  
 GCAGATGATAATGTTCACTTTCAAGCAGTCAGCTCAGATCTCCAAGCCCTGGTGGATGCTGGTGTGGATT  
 TCCAAGCAATGTGGTACACGGATGAAGACCACGGGATCGCTAGCAGCACAGCTCACAGCACATCTATTC  
 CCATGAGCCATTTCTCCAGCAGTGTCTCTCTTACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222697 representing NM\_010074  
 Red=Cloning site Green=Tags(s)

MKTPWKVLLGLLGVAALVTIITVPIVLLSKDEAAADSRRTYSLADYKSTFRVKSYSLWVWSDFEYLYKQ  
 ENNILLNNAEHGNSSIFLENSTFESFGYHSVSPDRFLVLLLEYVYKQWRHSYTASYNIYDVNKRQLITEE  
 KIPNNTQWITWSPGKHLAYVWKNDIYVKVEPHLPSHRITSTGEENVIYNGITDWYVEEVEFGAYSALWW  
 SPNNTFLAYAQFNDTGVPLIEYFSFYSDESLQYPKTVWIPYKAGAVNPTVKFFIVNIDSLSSSSAAPIQ  
 IPAPASVARGDHYLCDVVWATEERISLQWLRIQNYSVMAICDYDKINLTWNCPSEQQHVMSTTGWVGR  
 FRPAEPHFTSDGSSFYKIIISDKDGYKHICHFPKDKDCTFITKGAWEVISIEALTSDYLYYISNQYKEMP  
 GGRNLYKIQLTDHTNVKCLSCDLNPERCQYYAVSFKEAKYYQLGCWGPGLPLYTLHRSTDHKLRLVLED  
 NSALDRMLQDVQMPKSKLDFIVLNETRFWYQMLPPHFDKSKKYPLLLDVYAGPCSQKADASFRNLWATY  
 LASTENIIVASFDRGSGYQGDKIMHAINRRLGTLEVEDQIEAARQFVKMGFVDSKRVAIWGWSYGGYVT  
 SMVLGSGSGVFKCGI AVAPVSRWEYDVSVYTERYMGPIPEDNLDHYRNSTVMSRAEHFKQVEYLLIHGT  
 ADDNVHFQQSAQISKALVDAGVDFQAMWYTDDEHGIASSTAHQHIYSHMSHFLQQCFLSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9029\\_h11.zip](https://cdn.origene.com/chromatograms/mm9029_h11.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\_010074

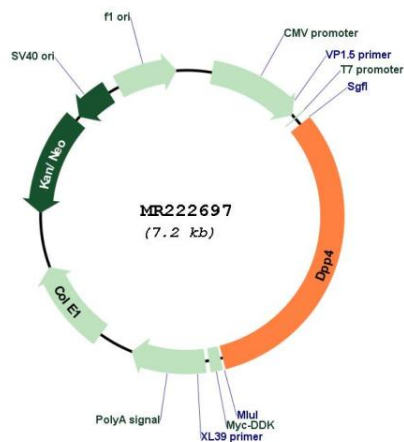
ORF Size: 2280 bp

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>NM_010074.3, NP_034204.1</u>
<b>RefSeq Size:</b>	5268 bp
<b>RefSeq ORF:</b>	2283 bp
<b>Locus ID:</b>	13482
<b>UniProt ID:</b>	<u>P28843</u>
<b>Cytogenetics:</b>	2 35.85 cM
<b>MW:</b>	87.9 kDa
<b>Gene Summary:</b>	<p>Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell proliferation, a process inhibited by GPC3. Acts also as a serine exopeptidase with a dipeptidyl peptidase activity that regulates various physiological processes by cleaving peptides in the circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide hormones. Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR222697