

## Product datasheet for **SC125354**

### **DPP8 (NM\_017743) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP8 (NM_017743) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPP8
Synonyms:	DP8; DPRP-1; DPRP1; MST097; MSTP097; MSTP135; MSTP141
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_017743, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCAGCAATGAAACAGAACAGCTGGGTGTTGAGATATTTGAAACTGCGGACTGTGAGGAGAATA
TTGAATCACAGGATCGGCCTAAATTGGAGCCTTTTTATGTTGAGCGGTATTCCTGGAGTCAGCTTAAAAA
GCTGCTTGCCGATACCAGAAAAATCATGGCTACATGATGGCTAAGGCACCACATGATTCATGTTTGTG
AAGAGGAATGATCCAGATGGACCTCATTACAGACAGAATCTATTACCTTGCCATGTCTGGTGAGAACAGAG
AAAATACACTGTTTTATTCTGAAATTCCAAAACTATCAATAGAGCAGCAGTCTTAATGCTCTTTGGAA
GCCTCTTTGGATCTTTTTAGGCAACTGGACTATGGAATGTATTCTCGAGAAGAAGAACTATTAAGA
GAAAGAAAACGCATTGGAACAGTCGGAATTGCTTCTTACGATTATCACCAAGGAAGTGAACATTCTGT
TTCAAGCCGGTAGTGAATTTATCACGTAAGATGGAGGGCCACAAGGATTTACGCAACAACCTTTAAG
GCCCAATCTAGTGAAACTAGTTGTCCCAACATACGGATGGATCCAAAATATGCCCTGCTGATCCAGAC
TGGATTGCTTTTATACATAGCAACGATATTTGGATATCTAACATCGTAACCAGAGAAGAAAGGAGACTCA
CTTATGTGCACAATGAGCTAGCCAACATGGAAGAAGATGCCAGATCAGCTGGAGTCGCTACCTTTGTTCT
CCAAGAAGAATTTGATAGATATTCTGGCTATTGGTGGTGTCCAAAAGCTGAAACAACCTCCAGTGGTGGT
AAAATTCTTAGAATTCTATATGAAGAAAATGATGAATCTGAGGTGAAATTTATTCATGTTACATCCCTTA
TGTTGAAACAAGGAGGGCAGATTCATTCCGTTATCCTAAAACAGGTACAGCAAATCCTAAAGTCACTTT
TAAGATGTCAGAAATAATGATTGATGCTGAAGGAAGGATCATAGATGTCATAGATAAGGAACTAATTCAA
CCTTTTGAGATTCTATTTGAAGGAGTTGAATATATTGCCAGAGCTGGATGGACTCCTGAGGGAAAAATAG
CTTGGTCCATCCTACTAGATCGCTCCAGACTCGCCTACAGATAGTGTGATCTCACCTGAATTTTAT
CCCAGTAGAAGATGATGTTATGGAAAGGCAGAGACTCATTGAGTCAGTGCCTGATTCTGTGACGCCACTA
ATTATCTATGAAGAAAACAACAGACATCTGGATAAATATCCATGACATCTTTCATGTTTTTCCCAAAGTC
ACGAAGAGGAAATTGAGTTTATTTTTGCCCTCTGAATGCAAAACAGGTTTCCGTCATTTATACAAAATTAC
ATCTATTTTAAAGGAAAGCAAATATAAACGATCCAGTGGTGGGCTGCCTGCTCCAAGTGATTTCAAGTGT
CCTATCAAAGAGGAGATAGCAATTACCAGTGGTGAATGGGAAGTCTTGCCGGCATGGATCTAATATCC
AAGTTGATGAAGTCAGAAGGCTGGTATATTTTGAAGGCACCAAAGACTCCCCTTTAGAGCATCACCTGTA
CGTAGTCAGTTACGTAATCCTGGAGAGGTGACAAGGCTGACTGACCGTGGCTACTCACATTCTTGCTGC
ATCAGTCAGCACTGTGACTTCTTTATAAGTAAGTATAGTAACCAGAAGAATCCCACTGTGTGCCCTTT
ACAAGCTATCAAGTCCTGAAGATGACCCAATTGCAAAACAAGGAATTTGGGCCACCATTTGGATTG
AGCAGGTCTCTCCTGACTATACTCCTCCAGAAATTTCTCTTTGAAAGTACTACTGGATTTACATTG
TATGGGATGCTCTACAAGCCTCATGATCTACAGCCTGAAAGAAATATCCTACTGTGCTGTTTCATATATG
GTGGTCTCAGGTTGCTATTGCTGGGGCCCCAGTCACTCTGTGGATCTTCTATGATACAGGATACACGGA
ACGTTATATGGGTCAACCCTGACCAGAAATGAACAGGGCTATTACTTAGGATCTGTGGCCATGCAAGCAGAA
AAGTTCCCTCTGAACCAAAATCGTTTACTGCTCTTACATGGTTTCCCTGGATGAGAATGTCCATTTTGAC
ATACCAGTATATTACTGAGTTTTTGTAGGGGCTGAAAGCCATATGATTTACAGATCTATCCTCAGGA
GAGACACAGCATAAGAGTTCTGAATCGGGAGAACATTATGAACCTGCATCTTTGCACTACCTTCAAGAA
AACCTGGATCACGATTGCTGCTCTAAAAGTGATATAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017743 unedited  
 TGTTGTAACGACTCCTATTAGGCGGCCGCGACATTTCGCACGAGGGCCAAGGCCGCTGCT  
 ACTGCCGCGCTGCTTCTTAGTGCCGCGTTTCGCCGCTGGGTTGTACCCGGCGCCGCCG  
 CGAGGAAGCCACTGCAACCAGGACCCGGAGTGGAGGCGGCCGAGCATGAAGCGGCCAGGC  
 CCGCTCCATAGCGCACGTCCGGACGGTCCGGGCGGGGCCGGGGGAAGGAAAAATGCAACA  
 TGGCAGCAGCAATGGAACAGAACAGCTGGGTGTTGAGATATTTGAACTGCGGACTGTG  
 AGGAAATATTGAATCACAGGATCGGCCTAAATTGGAGCCTTTTTATGTTGAGCGGTATT  
 CCTGGAGTCAGCTTAAAAAGCTGTTGCCGATACCAGAAAAATATCATGGCTACATGATGG  
 CTAAGGCACCATGATTTTCATGTTTGTGAAGAGGAATGATCCAGATGGACCTCATTGAG  
 ACAGAATCTATTACCTTGCCATGTCTGGTGAGAACAGAGAAAAATACACTGTTTTATTCTG  
 AAATCCCAAACTATCAATAGAGCAGCAGTCTTAATGCTCTCTTGAAGCCTCTTTTGG  
 ATCTTTTTTTCAGCAACTGGACTATGGGAATGATTCTCGAGAAGAAGAACTATTAANAG  
 AAAAAAACGCTTTGGAACAGTCGGAATTGGTTCTTACGATTATACCAAGGAAGGGGAC  
 ATTTCTTGTTTAAAGCCGGGGTGAATTTATACCTAAAAAAGGGAGGGCCCGAGGATTT  
 ACCCACAACCCTTAGGCCCATCTTAGGGAACTAATTGGCCACCTACGGGGGGGGCCA  
 AAATTTGCCCTGGGGTACCAAAAAGGATGGGTTTTATACTAAAAACCAATTGGAAAA  
 AACAAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017743 unedited  
 CCATGTCATGGCATGGCACTCTCAGNCCAGGAAAGCACTGGGGAAGGGTACAGGGCAT  
 GCCACCCGGGTATCTGTTTCAGGAAAACAGCTATGACCCGGCCGCAATCTAGAGTCGAGT  
 TTTTTTTTTTTTTTTTTTTAGAAATCTTATGGTATTGCTGGGTCTCTCAGGAATATG  
 TATCATTTGATTTGAGCATGTGGGGTTAAGGTATTAGATTACTACCACAAACCGTAGAC  
 CCCTGCATGGCACCACATTTATTTTCAGGAGTAGATGTTACATGGCAGGTATCAAAATGT  
 GATGATCAATTCTGTGTTTTCTGTTGATTAACCTCCTCATTGGTTAAATAGCCAGTGT  
 ATACCAGAGAGTTCTACACAGGTCAAAATTATACACTTTTAGAGCAGCAATACGTGATC  
 CAAGGTTTTCTTGAAGGTAGTGCAAAAGATGCAGTTCATAATGTTCTCCCGATTGAGAA  
 CTCTTATGCTGTGCTCTCCTGAGGATAGATCTGTAATCATATGGCTTTCCAGCCCTCA  
 CTAAAAAACTCAGTAATACTGGTATGTGCAAAATGGACATTCTCATCCAGGAAACCAT  
 GTAAGAGCAGTAAACGATTTGGTTCAGAGGGGAACTTTTTCTGCTTCATGGCCACAGATC  
 CTAAGTAATAGCCCTGTTCACTTCTGGTACAGGGTACCATATAAGTTCGGTGTTCGCCG  
 TAACCAAAAAGATCCCCAGGATGGCTGGGGCCCCCANCATTACCACCCCGAAGATTTCT  
 GACCTCTGCCTTTATGCCCTCAGGGAGAGGTTTTCCCATAGGACCAGCCGGGGTGCC  
 CACCNATCCAGTTTTGACACCCNATCGGAGAGCTTTGTTTTGGGCCCCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017743

**Insert Size:**

3000 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_017743.3](#), [NP\\_060213.2](#)

**RefSeq Size:** 3796 bp

**RefSeq ORF:** 2349 bp

**Locus ID:** 54878

**UniProt ID:** [Q6V1X1](#)

**Cytogenetics:** 15q22.31

**Domains:** DPPIV\_N\_term

**Protein Families:** Druggable Genome, Protease, Transmembrane

**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]

Transcript Variant: This variant (2) lacks two exons in the 3' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.