

## Product datasheet for **RG230475**

### **DPP10 (NM\_001178036) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP10 (NM_001178036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPP10
Synonyms:	DPL2; DPPY; DPRP-3; DPRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230475 representing NM\_001178036  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGTCATCCTTTAACCCAGATGAACACAAAATTCGTCAGAAACCAGATTGTCCTTGGAAAGACC  
 TCTTTAGGAAAGACTTTGTGCTTACGATCCAGAGGCTCGGTGGATCAATGATACAGATGTGGTGTATAA  
 AAGCGAGAATGGACATGTCATTAAGTGAATATAGAAACAAATGCTACCACATTATTATTGGAAAACACA  
 ACTTTTGTAACTTCAAAGCATCAAGACATTCAGTTTACCAGATTTAAAATATGTCCTTCTGGCATATG  
 ATGTCAAAACAGATTTTTCATTATTCGTATACTGCTTCATATGTGATTTACAACATACACACTAGGGAAGT  
 TTGGGAGTTAAATCCTCCAGAAGTAGAGGACTCCGTCTTGCAGTACGCGGCCTGGGGTGTCCAAGGGCAG  
 CAGCTGATTTATTTTTGAAAATAATATCTACTATCAACCTGATATAAGAGCAGTTTCATTGCGACTGA  
 CATCTTCTGGAAAAGAAGAAATAATTTTTAATGGGATTGCTGACTGGTTATATGAAGAGGAACTCCTGCA  
 TTCTCACATCGCCCACTGGTGGTCACCAGATGGAGAAAGACTTGCCTTCTGATGATAAATGACTCTTTG  
 GTACCCACCATGGTTATCCCTCGGTTTACTGGAGCGTTGTATCCCAAAGGAAAGCAGTATCCGTATCCTA  
 AGGCAGGTCAAGTGAACCAACAATAAAATTATATGTTGTAACCTGTATGGACCAACTCACACTTTGGA  
 GCTCATGCCACCTGACAGCTTTAAATCAAGAGAATACTATACACTATGGTTAAATGGGTAAAGCAATACC  
 AAGACTGTGGTAAGATGGTTAAACCGAGCTCAGAACATCTCCATCCTCACAGTCTGTGAGACCACTACAG  
 GTGCTTGTAGTAAAAATATGAGATGACATCAGATACGTGGCTCTCTCAGCAGAAATGAGGAGCCCGTGT  
 TTCTAGAGACGGCAGCAAATCTTTATGACAGTGCCTGTTAAGCAAGGGGACGTGGAGAATTTACCAC  
 ATAGCTATGTTCTCATCCAGAGTAAAAGTGAAGCAAAATACCGTGCAGCATCTGACATCAGGAAACTGGG  
 AAGTGATAAAGATCTTGGCATAAGTAAACTACTCAAAAAATTTACTTTCTGAGCACTGAATCTTCTCC  
 CAGAGGAAGGCAGCTGTACAGTGTCTTACTGAAGGATTATTGAATCGCCAATGCATTTTCATGTAATTTT  
 ATGAAAGAACAATGTACATATTTTATGATGCCAGTTTATGCCCATGAATCAACATTTCTTATTATTCTGTG  
 AAGGTCCAAGGGTCCCAGTGGTCAGCCTACATAGTACGGACAACCCAGCAAAAATTTTTATATTGGAAAG  
 CAATTCTATGCTGAAGGAAGCTATCCTGAAGAAGAAGATAGGAAAGCCAGAAAATAAAAATCCTTCATATT  
 GACGACTATGAACCTTCTTTACAGTTGTCCCTCCCAAAGATTTTATGGACCGAAACCAGTATGCTCTTC  
 TGTTAATAATGGATGAAGAACCAGGAGGCCAGCTGGTTACAGATAAGTTCATATTGACTGGGATCCGT  
 ACTCATTGACATGGATAATGTCATTGTAGCAAGATTTGATGGCAGAGGAAGTGGATCCAGGGTCTGAAA  
 ATTTTGCAGGAGATTCATCGAAGATTAGTTTCAGTAGAAGTAAAGGACCAATAACAGCTGTGAAATTTT  
 TGCTGAAACTGCCTTACATTGACTCCAAAAGATTAAGCATTTTTGGAAAGGGTTATGGTGGCTATATTGC  
 ATCAATGATCTTAAAATCAGATGAAAAGCTTTTTAAAATGTGGATCCGTGGTTGCACCTATCACAGACTTG  
 AAATTGTATGCCTCAGCTTTCTCTGAAAGATACCTTGGGATGCCATCTAAGGAAGAAAGCACTTACCAGG  
 CAGCCAGTGTGCTACATAATGTTTCATGGCTTGAAGAAGAAAAATATTAATAATTCATGGAAGTCTGTA  
 CAAAAAGTTCAATTTCAAACACTCAGCAGAATTAATCAAGCACCTAATAAAAGCTGGAGTGAATTAAT  
 ATGCAGGTCTACCCAGATGAAGGTCATAACGTATCTGAGAAGAGCAAGTATCATCTCTACAGCACAATCC  
 TCAAAATCTTCAGTGATTGTTGAAGGAAGAAATATCTGTGCTACCACAGGAACCAAGAAAGATGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG230475 representing NM\_001178036  
 Red=Cloning site Green=Tags(s)

MSVILLTPDEL TNSSETRLSLEDLFRKDFVLHDPPEARWINDTDVVYKSENGHVIKLNIETNATLLLENT  
 TFVTFKASRHSVSPDLKYVLLAYDVKQIFHYSYASYVIYNIHTREVWELNPPEVEDSVLQYAAWGVQGG  
 QLIYIFENNIYYQPDIKSSSLRLTSSGKEEIIFNGLADWLYEEELLHSHIAHWWSPDGERLAFMINDSL  
 VPTMVI PRFTGALYPKGKQYPYPKAGQVNPTIKLYVVNLYGPTHLELMPPDSFKSREYYITMVKVVSN  
 KTVVRWLNRAQNISILTVCETTTGACSKKYEMTSDTWLSQQNEEPVFSRDGSKFFMTVPVKQGGGRGFHH  
 IAMFLIQSKSEQITVRHLTSGNWEVIKILAYDETTQKIYFLSTESSPRGRQLYSASTEGLLNRCISCNF  
 MKEQCTYFDASFSMPNQHFLLFCEGPRVPVSLHSTDNPAKYFILESNSMLKEAILKKKIGKPEIKILHI  
 DDYELPLQLSLPKDFMDRNQYALLLIMDEEPPGQLVTDKFHIDWDSVLIDMDNVIVARFDGRGSGFGGLK  
 ILQEIHRRLGSVEVKDQITAVKFLKLPYIDSKRLSIFGKGYGGYIASMILKSDEKLFKCGSVVAPITDL  
 KLYASAFSERYLGMPKSKEESTYQAASVLHNVHGLKEENILIIHGTADTKVHFQHSaelIKHLIKAGVNYT  
 MQVYPDEGHNVSEKSKYHLYSTILKFFSDCLKEEISVLPQEPPEDE

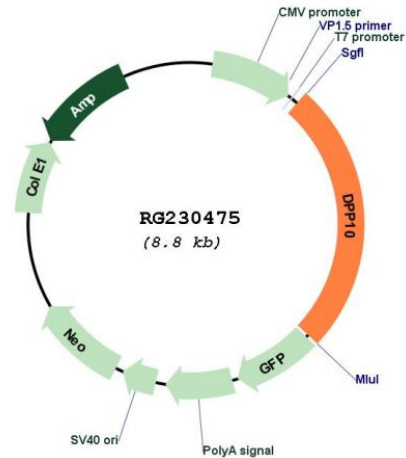
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001178036

**ORF Size:** 2238 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.

**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\\_001178036.1](#), [NP\\_001171507.1](#)

**RefSeq Size:** 5306 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 57628

<b>Cytogenetics:</b>	2q14.1
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a single-pass type II membrane protein that is a member of the S9B family in clan SC of the serine proteases. This protein has no detectable protease activity, most likely due to the absence of the conserved serine residue normally present in the catalytic domain of serine proteases. However, it does bind specific voltage-gated potassium channels and alters their expression and biophysical properties. Mutations in this gene have been associated with asthma. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p>