

## Product datasheet for **RG214014**

### **DPP6 (NM\_130797) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP6 (NM_130797) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPP6
Synonyms:	DPL1; DPPX; MRD33; VF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG214014 representing NM\_130797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCGCTGTACCAGAGTTCACTGGCAAGATCAACACCTCGAGTCTTCCCCGCGCCCCGGAGG  
 CGAGTCACCTCCTGGGCGGCCAGGGCCCGAGGAGGACGGCGGCCAGGAGCCAAGCCCCGCGCCGCG  
 GGCGCAGCGCGCGGCCCGGGAGCGCGCGCGCGCGCGGGTGGCCGCGCCCCGGTCCAG  
 TACCAGGCGCGGAGCGATGGTGACGAGGAGGACGAGCTGGTGGGAGTAACCCTCCGAGAGGAATTGGA  
 AAGGAATAGCAATTGCACTGCTTGTCTTCTGGTCATCTGCTCCTTGATCGTCACCTCGGTCATACTTCT  
 GACACCAGCGGAAGATAATAGTCTGTCTCAAAGAAGAAGGTCAGTGTAGAAGATCTCTTCAGTGAAGAC  
 TTCAAATTCATGACCCCGAGGTAAGTGGATAAGTGATACAGAATTCATCTACAGAGAACGAAAGGAA  
 CAGTGAGACTGTGAATGTTGAAACAAACTTCTACTGTCTTAATAGAAGGCAAAAAATTGAATCATT  
 AAGAGCCATCAGATATGAAATATCTCCAGATAGAGAGTATGCACTTTTTTCATACAATGTGGAACCCATA  
 TATCAACACTCGTATACTGGATATTACGTCCTGAGCAAAATTCCTCATGGGGATCCTCAAAGTCTGGACC  
 CACCAGAAGTCAGCAATGCAAACTTCAGTATGCAAGGATGGGGCCCTAAAGGCCAACAGCTGATATTTAT  
 TTTTGA AAAAATATCTACTACTGTGCACATGTCGGGAAACAGGCCATCCGTGTGGTCTCCACTGGCAAG  
 GAAGGTGTGATTTACAATGGCCTCAGTACTGGCTGTATGAAGAGGAGATTTTGAAGACACACATCGCAC  
 ACTGGTGGTCTCCGGATGGCAGGAGACTCGCCTACGCCGCATCAATGATCCCGTGTCCCATCATGGA  
 GCTCCCACTTACACCGGCTCCATCTACCCACCGTGAAGCCCTACCCTATCCCAAGGCTGGAAGTGAG  
 AACCCAGCATTCCCTACACGTTATTGGCTTAAATGGACCCACCCATGATCTGGAGATGATGCCGCTG  
 ATGATCCACGGATGAGGGAGTACTACATCACCATGGTGAAGTGGGCCACCAGCAAGGTCCGCTGAC  
 CTGGCTGAACCGGGCGCAGAACGTGTCCATCCTCACCTCTGCGACGCCACCACGGGGTCTGCACGAAG  
 AAACACGAGGATGAAAGTGAAGCCTGGCTCCACAGACAGAATGAAGAACCCTGTGTTCTCCAAGGATGGCC  
 GAAAGTTTTTCTCATCAGAGCCATCCCCAGGGAGGACGAGGAAATCTATCACATCACGGTGTCTCTC  
 GTCCAGCCCAACAGCAGCAACGACAACATCCAGTCCATCACCTCCGGGACTGGGACGTGACCAAGATC  
 CTAGCCTACGATGAGAAGGGAAATAAGATCTACTTCTGAGCACGGAGGACCTGCCTCGGAGACGACAAC  
 TCTACAGTGCCAACACGGTGGGCACTTCAACAGGCAGTGCCTCTCTGTGACCTGGTTGAGAACTGCAC  
 CTACTTACAGCCTTCTTACGCCATAGCATGGACTTCTTCTGCTCAAGTGCAGGAGTCTGGTGTCTCT  
 ATGGTGACGGTGCACAACAACAGATAAGAAAAAATGTTTGACCTAGAAACAAATGAACATGTCAAGA  
 AGGCCATAAATGACCGACAGATGCCTAAAGTGAATACAGGGACATTGAGATTGATGATTACAACCTGCC  
 CATGCAGATACTGAAGCCAGCAACCTTACCGACACCACCCACTACCCTCTGCTCCTGGTGGTGGATGGC  
 ACCCCGGGCGAGCCAGAGTGTGGCTGAGAAGTTCGAGGTGAGCTGGGAGACGGTGTGATGGTGAAGCAGCCAG  
 GCGCGGTGGTAAAGTGTGACGGCCTGGCAGCGGCTTCCAAGGGACCAAGCTCCTGCACGAAGTGAG  
 GCGGCGGTGGGCTTGTGGAGGAGAAGGACCAGATGGAGGCGGTGCGGACGATGCTGAAGGAGCAGTAC  
 ATTGACAGGACGCGCGTGGCCGTGTTGGGAAGGATTACGGTGGCTACCTGAGCACCTACATCCTCCAG  
 CAAAGGGAGAAAAATCAAGGCCAGACATTCACCTGCGGCTCTGCTCTCTCCAATAACAGACTTCAAAT  
 CTATGCCTCTGCTTTTTCCGAGAGGTACTTGGCCTCCATGGACTTGACAACAGAGCATACGAGATGACC  
 AAGGTAGCCCATCGAGTCTCCGCGCTGGAAGAACAGCAGTTCCTGATCATTATCCCACTGCCGATGAAA  
 AAATTCATTTCCAGCACAGCAGAACTCATTACACAATAATTAGGGAAAGGCTAATTACAGTTACA  
 GATTTACCGGACGAAAGCCATTACTTTACCAGCTCCAGCCTCAAACAGCATCTGTACCGGTCCATCATC  
 AACTTCTCGTGAATGCTTCAGGATCCAGGACAACTGCCGACAGTCACAGCGAAAGAGGACGAGGAGG  
 AGGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214014 representing NM\_130797  
 Red=Cloning site Green=Tags(s)

MASLYQRFTGKINTSRSPAPPEASHLLGGQGPEEDGGAGAKPLGPRAQAAAPRERGGGGGAGGRPRFQ  
 YQARSDGDEEDELVGSNPPQRNWKGIALLVILVICSLIVTSVILLTPAEDNSLSQKKKVTVEDLFS  
 FKIHDPKAWISDTEFIYREKQGTVRLWNVETNTSTVLIEGKKIESLRAIRYEISPDREYALFSYNVEPI  
 YQHSYTGYYVLSKIPHGDPQSLDPPEVSNALQYAGWGPKGQQLIFIFENNIYYCAHVGKQAIRVVSTGK  
 EGVYINGLSDWLYEEEILKTHIAHWSPDGTRLAYAAINDSRVPIMELPTYTGSIIYPTVKPYHYPKAGSE  
 NPSISLHVIGLNGPETHLEMMPPDDPRMREYYITMVKWATSTKVAVTWLNRAQNVSILTLCDATTGVCTK  
 KHEDESEAWLHRQNEEPVFSKDGKRFIRAIIPQGGKGFYHITVSSSQPNSSNDNIQSITSGDWDVTKI  
 LAYDEKGNKIYFLSTEDLPRRQLYSANTVGNFNRQCLSCDLVENCTYFSASFHSMDFLLKCEGPGVP  
 MVTVHNTDKKKMFLETNEHVKKAINDRQMPKVEYRDIEIDYDNLPMQILKPAFTDTHYPLLLVVDG  
 TPGSQSVAEKFEVSWETVMVSSHGAVVVKCDGRGSGFQGTKLLHEVRRRLGLEEKDQMEAVRTMLKEQY  
 IDRTRVAVFGKDYGGYLSTYILPAKGENQGQTFTCGSALSPITDFKLYASAFSERYLGLHGLDNRAYEMT  
 KVAHRVSALEEQQFLIIHPTADEKIHFHQHTAELITQLIRGKANYSLQIYPDESHYFTSSSLKQHL YRSII  
 NFFVECFRIQDKLPTVTAKEDDEED

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

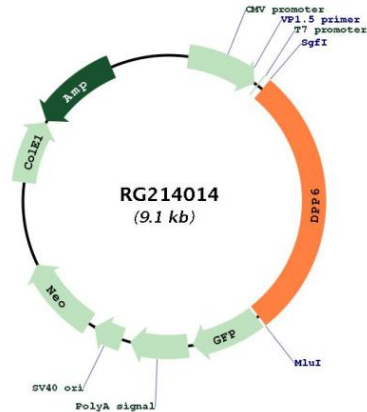
Cloning Scheme:



<b>ACCN:</b>	NM_130797
<b>ORF Size:</b>	2595 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_130797.1</a> , <a href="#">NP_570629.1</a>
<b>RefSeq Size:</b>	3712 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	1804
<b>UniProt ID:</b>	<a href="#">P42658</a>
<b>Cytogenetics:</b>	7q36.2
<b>Domains:</b>	Peptidase_S9, DPPIV_N_term
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane

**Gene Summary:**

This gene encodes a single-pass type II membrane protein that is a member of the peptidase S9B family of 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. Variations in this gene may be associated with susceptibility to amyotrophic lateral sclerosis and with idiopathic ventricular fibrillation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

**Product images:**

Circular map for RG214014