

## Product datasheet for **MG210746**

### **Dpp6 (BC048383) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dpp6 (BC048383) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpp6
Synonyms:	D5Buc3, D5Buc5, D5Buc4, Rw
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG210746 representing BC048383  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCACAGCCAAGGAGCCAGCGCCTCAGGAAAATCTGTACAGCAGCAGGATCAGGAGCTGGTGGGGA  
 GTAACTCCACAGAGGAAGTGGAAAGGAATCGCCATTGCGCTGCTCGTCATCCTTGTCTGCTCTCT  
 GATTGTACCTCAGTCATCCTGTTGACCCAGCGGAAGATACCAGTCTGTCTCAGAAGAAAAAGTACT  
 GTGGAAGATCTCTCAGTGAAGACTTCAAAATCCATGACCCAGAGGCAAAGTGGATAAGCAATAAGGAAT  
 TCATCTACAGAGAACGGAAGGGAGTGTACTGCGGAATGTTGAAACAAATAATCCACGGTGTAAAT  
 AGAAGGCAAAAAATGAATCCTTGAGAGCCATCAGATATGAAATATCCCGAGATAAGAGTATGTGCTG  
 TTCTCTATAATGTGGAGCCGTATACCAACACTCCCACACTGGATATTATGTTCTGAGCAAAATCCTC  
 ATGGGGACCTCAGAGTCTGGACCCACCAGAAGTCAGCAACGCAAAGCTTCAGTATGCAGGGTGGGGCC  
 AAAAGGCCAGCAGCTGATTTTATCTTTGAGAACAACATCTACTACTGTGCACACGTTGGAAAGCAGGCA  
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 AGATTCTGAAGAGCCACATCGCTCATTGGTGGTACCAGATGGTACAAGGCTCGCCTATGCCACCATCAA  
 CGACTCCCGGTTCCACTTATGGAGCTGCCAACGTACACAGGCTCTGTCTACCCACTGTGAAGCCCTAC  
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 GCCACCACGGGTGTCTGCACTAAGAAACATGAAGATGAAAGCGAAGCCTGGCTCCACAGACAGAATGAAG  
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 AAGTGTGAAGGCCCTGGCGTACCCACTGTTACTGTGCATAACACCACGGACAAGAGAAGAATGTTTGACT  
 TGAAGCAAAATGAGGAAGTTCAGAAGGCTATCAACGACCCGAGATGCCGAAGATTGAATATCGAAAAAT  
 TGAAGTAGAAGATTACAGCTTGCCAATGCAAATCTTGAAGCCGGCCACCTTACCAGACACAGCTCACTAC  
 CCCTTATTGCTCGTGGTGGATGGTACCCAGGGAGTCAGAGCGTGACAGAGAGGTTTGGAGTACCTGGG  
 AAACAGTGTGGTGGAGCAGCCATGGAGCCGTGGTGGTCAAGTGTGACGGCCGAGGAGCGGCTTCCAGGG  
 AACCAAGCTCCTACAGGAAGTACGGAGGCGGCTAGGCTTCTGGAGGAGAAGGACCAGATGGAAGCTGTA  
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 CTCTCAAATAACAGACTTCAAATCTATGCCTCTGCATTTCTGAGAGGTACCTTGGCCTCCATGGACTC  
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 TCATCCACGCCACGGCCGATGAAAAATCCATTTCCAGCACACAGCTGAGCTCATCACGCAGCTGATCAA  
 GGGAAAGGCCAATTACAGCTTACAGATCTACCCAGATGAGAGTCACTACTTCCACAGCGTGGCGCTCAAG  
 CAGCACCTGTCCAGGTCCATCATCGGCTTCTTTGTGGAATGTTTCAGAGTCCAAGATAAGCTACCAACAG  
 CCACAGCAAAAAGAGGAGGAGGAGGAGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

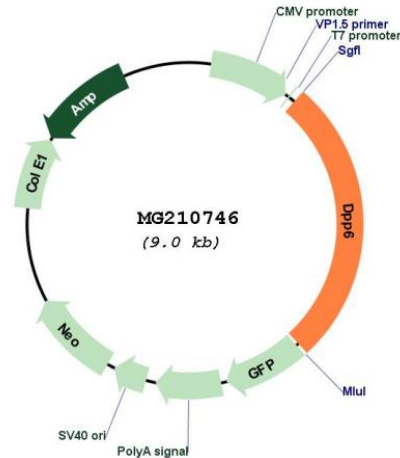
Protein Sequence: >MG210746 representing BC048383  
Red=Cloning site Green=Tags(s)

MTTAKEPSASGKSVQQDQELVGSNPPQRNWKGIALLVILVICSLIVTSVILLTPAEDTSLSQKKKVT  
VEDLFSDFKIHDPEAKWISNKEFIYRERKGSVILRNVTNNSTVLIIEGKKIESLRAIRYEISPDKEYVL  
FSYNVEPVYQHSHTGYVLSKIPHGDPQSLDPPEVSNAKLQYAGWGPKGQQLIFIFENNIYYCAHVKGQA  
IRVVSTGKEGVIYNGLSDWLYEEEEILKSHIAHWWSPDGTRLAYATINDSRVPLMELPTYTGSVYPTVKPY  
HYPKAGSENPSISLHVIGLNGPTHLEMMPPDDPRMREYYITMVKWATSTKVAVTWLNRAQNVSILTLCD  
ATTGVCTKKHEDESEAWLHRQNEEPVFSKDGRKFFFVRAIPQGGRGKPHYHITVSSSQPNSSNDNIQSITS  
GDWDVTKILSYDEKRNKIYFLSTEDLPRRRHLYSANTVDDFNQCLSCDLVENCTYVSASF SHNMDFFLL  
KCEGPGVPTVTVHNTTDKRRMFDLEANEEVQKAINDRQMPKIEYRKIEVEDYSLPMQILKPATFTDTAHY  
PLLLVVDGTPGSQSVTERFEVETWETVLVSSHGAVVVKCDGRGSGFGQTKLLQEVRRRLGFLEEKDQMEAV  
RTMLKEQYIDKTRVAVFGKDYGGYLSTYILPAKGENQGQTFTCGSALSPITDFKL YASAFSERYLGLHGL  
DNRAYEMTKLAHRVSALEDQQLIIHATADEKIHFOHTAELITQLIKGKANYSLQIYPDESHYFHSVALK  
QHLSRSIIGFFVECFRVQDKLPTATAKEEEEEED

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



**Plasmid Map:**


**ACCN:** BC048383

**ORF Size:** 2411 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:** [BC048383](#), [AAH48383](#)

**RefSeq Size:** 3389 bp

**RefSeq ORF:** 2411 bp

**Locus ID:** 13483

**Cytogenetics:** 5 12.92 cM

**Gene Summary:**

Promotes cell surface expression of the potassium channel KCND2 (PubMed:22311982). Modulates the activity and gating characteristics of the potassium channel KCND2 (PubMed:22311982). Has no dipeptidyl aminopeptidase activity (By similarity). [UniProtKB/Swiss-Prot Function]