

Product datasheet for **MG225142**

Dpp6 (NM_010075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpp6 (NM_010075) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpp6
Synonyms:	B930011P16Rik; D5Buc3; D5Buc4; D5Buc5; Dpp-6; DPP VI; Gm1377; In(5)6H-p; Peplb; Rw
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225142 representing NM_010075
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCAAACAGCCGGAGCTTCCAACAACGTCAGGTGTCTCCAGGAAAGGCCATAAGGAGCTGGTGG
 GGAGTAATCCTCCACAGAGGAACTGAAAAGGAATCGCCATTGCGCTGCTGTCATCCTTGTGATCTGCTC
 TCTGATTGTCACCTCAGTCATCCTGTTGACCCAGCGGAAGATACCAGTCTGTCTCAGAAGAAAAAGTG
 ACTGTGGAAGATCTCTTCACTGAAGACTTCAAAATCCATGACCCAGAGGCAAAGTGGATAAGCAATAAGG
 AATTCATCTACAGAGAACGGAAGGGAGTGTACTGCGGAATGTTGAAACAAATAATCCACGGTGT
 AATAGAAGGCAAAAAATTGAATCCTTGAGAGCCATCAGATATGAAATATCCCCAGATAAAGAGTATGTG
 CTGTTCTCTATAATGTGGAGCCGTATACCAACTCCCACACTGGATATTATGTTCTGAGCAAAATTC
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 AGGAGATTCTGAAGAGCCACATCGCTCATTGGTGGTCACCAGATGGTACAAGGCTCGCCTATGCCACCAT
 CAACGACTCCCGGTTCCACTTATGGAGCTGCCAACGTACACAGGCTCTGTCTACCCCACTGTGAAGCCC
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 GATGCCACCACGGGTGTCTGACTAAGAAACATGAAGATGAAAGCGAAGCCTGGCTCCACAGACAGAATG
 AAGACCCTGTGTTCTCCAAGATGGCAGGAAGTTTTTCTTTGTGACAGCGATCCCACAGGAGCCGGGG
 TAAATTCACCATATCACCGTATCATCTCCAGCCCAACAGCAGCAATGACAACATCCAGTCTATCACC
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 GTCATGTGACTTGGTGGAGAAGTGCACCTATGTCAGCGCTTCTTTGAGCCATAACATGGACTTCTTCCTG
 CTCAGTGTGAAGGCCCTGGCGTACCCACTGTTACTGTGCATAACACCACGGACAAGAGAAGAATGTTTG
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 TGATCATCCACGCCACGGCCGATGAAAAATCCATTTCCAGCACACAGCTGAGCTCATCACGAGCTGAT
 CAAGGAAAGGCCAATTACAGCTTACAGATCTACCCAGATGAGAGTCACTACTTCCACAGCGTGGCGCTC
 AAGCAGCACCTGTCCAGTCCATCATCGGCTTCTTTGTGGAATGTTTCAGAGTCCAAGATAAGCTACCAA
 CAGCCACAGCAAAAAGAGGAGGAGGAGGAGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

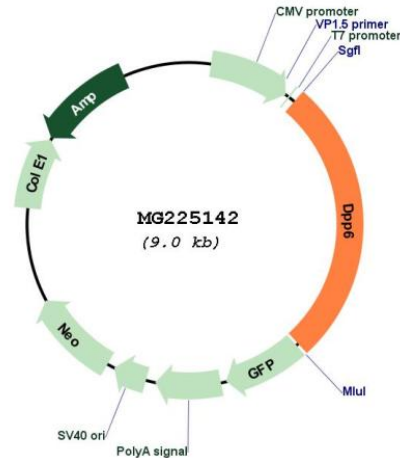
Protein Sequence: >MG225142 representing NM_010075
Red=Cloning site Green=Tags(s)

MNQTAGASNNVRCPPGKGHKELVGSNPPQRNWGIAIALLVILVICSLIVTSVILLTPAEDTSLSQKKKV
TVEDLFSEDFKIHDPKAWISNKEFIYRERKGSVILRNVTNNSTVLEGGKIESLRAIRYEISPDKEYV
LFSYNVEPVYQHSHTGYVLSKIPHGDPQSLDPPEVSNAKLQYAGWGPKGQQLIFIFENNIYYCAHVGKQ
AIRVVSTGKEGVIYNGLSDWLYEEEEILKSHIAHWWSPDGTRLAYATINDSRVPLMELPTYTGSVYPTVKP
YHYPKAGSENPSISLHVIGLNGPTHLEMMPPDDPRMREYYITMVKWATSTKVAVTWLNRAQNVSILTLC
DATTGVCTKKHEDESEAWLHRQNEEPVFSKDGRKFFVRAIPQGGRGKIFYHITVSSSQPNSSNDNIQSIT
SGDWDVTKILSYDEKRNKIYFLSTEDLPRRRHLYSANTVDDFNRQCLSCDLVENCTVVSASFHNMDFFL
LKCEGPGVPTVTVHNTTDKRRMFDLEANEVQKAINDRQMPKIEYRKIEVEDYSLPMQILKPATFTDTAH
YPLLLVVDGTPGSQSVTERFEVTWETVLVSSHGAVVVKCDGRGSGFGTKLLQEVRRRLGFLEEKDQMEA
VRTMLKEQYIDKTRVAVFGKDYGGYLSTYILPAKGENQGQTFTCGSALSPITDFKLYASAFSERYLGLHG
LDNRAYEMTKLAHRVSALEDQQLIIHATADEKIHFAQHTAELITQLIKGKANYSLQIYPDESHYFHSVAL
KQHLRSRIGFFVECFRVQDKLPTATAKEEEEEED

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_010075

ORF Size: 2412 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_010075.2](#), [NP_034205.1](#)

RefSeq Size: 4866 bp

RefSeq ORF: 2415 bp

Locus ID: 13483

UniProt ID: [Q9Z218](#)

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]