

Product datasheet for **MR225142**

Dpp6 (NM_010075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpp6 (NM_010075) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dpp6
Synonyms:	B930011P16Rik; D5Buc3; D5Buc4; D5Buc5; Dpp-6; DPP VI; Gm1377; In(5)6H-p; Peplb; Rw
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR225142 representing NM_010075
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCAAACAGCCGGAGCTTCCAACAACGTCAGGTGTCTCCAGGAAAGGCCATAAGGAGCTGGTGG
 GGAGTAATCCTCCACAGAGGAACTGAAAAGGAATCGCCATTGCGCTGCTGTCATCCTTGTATCTGCTC
 TCTGATTGTACCTCAGTCATCCTGTTGACCCAGCGGAAGATACCAGTCTGTCTCAGAAGAAAAAGTG
 ACTGTGGAAGATCTCTTCACTGAAGACTTCAAATCCATGACCCAGAGGCAAAGTGGATAAGCAATAAGG
 AATTCATCTACAGAGAACGGAAGGGAGTGTACTGCGGAATGTTGAAACAAATAATCCACGGTGT
 AATAGAAGGCAAAAAATTGAATCCTTGAGAGCCATCAGATATGAAATATCCCCAGATAAAGAGTATGTG
 CTGTTCTCTATAATGTGGAGCCGTATACCAACTCCCACACTGGATATTATGTTCTGAGCAAATTC
 CTCATGGGACCCTCAGAGTCTGGACCCACCAGAAGTCAACAACGCAAAGCTTCAGTATGCAGGGTGGGG
 CCCAAAAGGCCAGCAGCTGATATTTATCTTTGAGAACAACATCTACTACTGTGCACAGTGGAAAGCAG
 GCAATTCGAGTGGTCTCTACAGGGAAGGAGGGCGTGATCTACAATGGCCTCAGTACTGGCTGTATGAAG
 AGGAGATTCTGAAGAGCCACATCGCTCATTGGTGGTCACCAGATGGTACAAGGCTCGCCTATGCCACCAT
 CAACGACTCCCGGTTCCACTTATGGAGCTGCCAACGTACACAGGCTCTGTCTACCCCACTGTGAAGCCC
 TACCACTATCCTAAGGCTGGCAGTGAACCCCAAGCATCTCGCTCCATGTATCGGCTTGAATGGACCCA
 CCCACGACCTGGAGATGATGCCACCTGATGACCCGCGCATGAGGGAAATTTACATCACCATGGTGAATG
 GGCCACCAGCACCAAGGTCGCTGTGACCTGGTGAACCCGGGCCAGAATGTGTCAATCCTGACCCCTGT
 GATGCCACCACGGGTGTCTGACTAAGAAACATGAAGTGAAGCGAAGCCTGGCTCCACAGACAGAATG
 AAGACCCTGTGTTCTCCAAGATGGCAGGAAGTTTTTTCTTTGTGAGAGCGATCCACAGGGAGCCGGGG
 TAAATTCTACCATATCACCGTATCATCTCCAGCCCAACAGCAGCAATGACAACATCCAGTCTATCACC
 TCTGGAGACTGGGATGTGACCAAGATCCTGTCTATGATGAGAAGCGGAATAAGATCTATTTCTGAGCA
 CAGAAGACCTGCCACGGAGACGACATCTCTACAGTGCCAACACGGTAGATGACTTCAACAGGCAGTGTCT
 GTCATGTGACTTGGTGGAGAAGTGCACCTATGTGACGCTTCTTTGAGCCATAACATGGACTTCTTCTCTG
 CTCAAGTGTGAAGGCCCTGGCGTACCCACTGTTACTGTGCATAACACCACGGACAAGAGAAGAATGTTTG
 ACTTGAAGCAAAATGAGGAAGTTCAGAAGGCTATCAACGACCCGAGATGCCGAAGATTGAATATCGAAA
 AATTGAAGTAGAAGATTACAGCTTGCCAAATGCAAATCTTGAAGCCGGCCACCTTCACCGACACAGCTCAC
 TACCCCTTATTGCTCGTGGTGGATGGTACCCAGGGAGTCAAGCGTGACAGAGAGGTTTGAGGTGACCT
 GGGAAACAGTGTGGTGGAGCAGCATGGAGCCGTGGTGGTCAAGTGTGACGGCCGAGGCAGCGGCTTCCA
 GGAACCAAGCTCCTACAGGAAGTACGGAGGCGGCTAGGCTTCTGGAGGAGAAGGACCAGATGGAAGCT
 GTAAGAACTATGCTGAAGGAGCAGTATATTGACAAGACTCGGGTAGCTGTGTTGGGAAGGATTATGGTG
 GGTACCTGAGCACTTACATCCTCCAGCCAAGGGAGAAAATCAAGGTGAGACTTTACCTGCGGCTCTGC
 GCTCTCTCAATAACAGACTTCAAATCTATGCCTCTGCATTTCTGAGAGGTACCTTGGCTCCATGGA
 CTCGACAACAGAGCGTATGAGATGACCAAGCTGGCACACCGAGTGTGAGCACTGGAGGACCAGCAGTTC
 TGATCATCCACGCCACGGCCGATGAAAAATCCATTTCCAGCACACAGCTGAGCTCATCACGAGCTGAT
 CAAGGAAAGGCCAATTACAGCTTACAGATCTACCCAGATGAGAGTCACTACTTCCACAGCGTGGCGCTC
 AAGCAGCACCTGTCCAGTCCATCATCGGCTTCTTTGTGGAATGTTTCAGAGTCCAAGATAAGCTACCAA
 CAGCCACAGCAAAAAGAGGAGGAGGAGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225142 representing NM_010075
Red=Cloning site Green=Tags(s)

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

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_e11.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



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

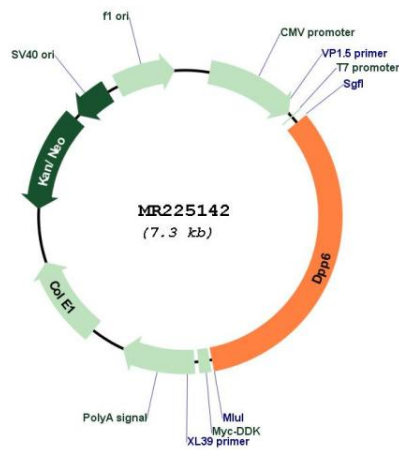
UniProt ID: [Q9Z218](#)

Cytogenetics: 5 12.92 cM

MW: 91.7 kDa

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]

Product images:



Circular map for MR225142