

Product datasheet for **MR225147**

Dpp6 (NM_001136060) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpp6 (NM_001136060) 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:

>MR225147 representing NM_001136060
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCACAGCCAAGGAGCCAGCGCCTCAGGAAATCTGTACAGCAGCAGGATCAGGAGCTGGTGGGA
GTAACTCCACAGAGGAAGTGGAAAGGAATCGCCATTGCGCTGCTCGTCATCCTTGTCTGCTCTCT
GATTGTACCTCAGTCATCCTGTTGACCCAGCGGAAGATACCAGTCTGTCTCAGAAGAAAAAGTACT
GTGGAAGATCTCTCAGTGAAGACTTCAAAATCCATGACCCAGAGGCAAAGTGGATAAGCAATAAGGAAT
TCATCTACAGAGAACGGAAAGGAGTGTACTGCGGAATGTTGAAACAAATAATCCACGGTGTAAAT
AGAAGGCAAAAAATGAATCCTTGAGAGCCATCAGATATGAAATATCCCGAGATAAGAGTATGTGCTG
TTCTCCTATAATGTGGAGCCGTATACCAACACTCCCACACTGGATATTATGTTCTGAGCAAAATCCTC
ATGGGGACCTCAGAGTCTGGACCCACCAGAAGTCAGCAACGCAAAGCTTCAGTATGCAGGGTGGGGCC
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ATTCGAGTGGTCTCTACAGGGAAGGAGGGCGTGATCTACAATGGCCTCAGTACTGGCTGTATGAAGAGG
AGATTCTGAAGAGCCACATCGCTCATTGGTGGTACCAGATGGTACAAGGCTCGCCTATGCCACCATCAA
CGACTCCCGGTTCCACTTATGGAGCTGCCAACGTACACAGGCTCTGTCTACCCACTGTGAAGCCCTAC
CACTATCCTAAGGCTGGCAGTGAACCCAGCATCTCGTCCATGTCATCGGCTTGAATGGACCCACCC
ACGACCTGGAGATGATGCCACCTGATGACCCGCGCATGAGGGAATATTACATCACCATGGTGAATGGGC
CACCAGCACCAAGGTCGCTGTGACCTGGCTGAACCGGGCCAGAATGTGTCAATCCTGACCTCTGTGAT
GCCACCACGGGTGTCTGCACTAAGAAACATGAAGATGAAAGCGAAGCCTGGCTCCACAGAGCAAGTGAAG
AGCTGTGTTCTCAAAGATGGCAGGAAGTTTTCTTTGTCAGAGCGATCCACAGGGAGGCCGGGTAA
ATTCTACCATATACCGTATCATCATCCAGCCCAACAGCAGCAATGACAACATCCAGTCTATCACCTCT
GGAGACTGGGATGTGACCAAGATCCTGTCTATGATGAGAAGCGGAATAAGATCTATTTCTGAGCACAG
AAGACCTGCCACGGAGACGACATCTCTACAGTGCCAACACGGTAGATGACTTCAACAGGCAGTGTCTGTC
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AAGTGTGAAGGCCCTGGCGTACCCACTGTTACTGTGCATAACACCACGGACAAGAGAAGAATGTTTGACT
TGAAGCAAAATGAGGAAGTTCAGAAGGCTATCAACGACCCGCAGATGCCGAAGATTGAATATCGAAAAAT
TGAAGTAGAAGATTACAGCTTGCCAATGCAAATCTTGAAGCCGGCCACCTTACCAGACACAGCTCACTAC
CCCTTATTGCTCGTGGTGGTGGTACCCAGGGAGTCAGAGCGTGACAGAGAGGTTTGGAGTACCTGGG
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AACCAAGCTCCTACAGGAAGTACGGAGGCGGCTAGGCTTCTGGAGGAGAAGGACCAGATGGAAGCTGTA
AGAAGTATGCTGAAGGAGCAGTATATTGACAAGACTCGGGTAGCTGTGTTTGGGAAGGATTATGGTGGGT
ACCTGAGCACTTACATCCTCCAGCCAAGGGAGAAAAATCAAGGTGAGACTTTCACCTGCGGCTCTGCGCT
CTCTCAAATAACAGACTTCAAATCTATGCCTCTGCATTTTCTGAGAGGTACCTTGGCCTCCATGGACTC
GACAACAGAGCGTATGAGATGACCAAGCTGGCACACCGAGTGTGAGCACTGGAGGACCAGCAGTTCTGTA
TCATCCACGCCACGGCCGATGAAAAATCCATTTCCAGCACACAGCTGAGCTCATCACGCAGCTGATCAA
GGGAAAGGCCAATTACAGCTTACAGATCTACCCAGATGAGAGTCACTACTTCCACAGCGTGGCGCTCAAG
CAGCACCTGTCCAGGTCCATCATCGGCTTCTTTGTGGAATGTTTCAGAGTCCAAGATAAGCTACCAACAG
CCACAGCAAAAGAGGAGGAGGAGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225147 representing NM_001136060
Red=Cloning site Green=Tags(s)

MTTAKEPSASGKSVQQDQELVGSNPPQRNWKGIALLVILVICSLIVTSVILLTPAEDTSLSQKKKVT
VEDLFSDFKIHDPEAKWISNKEFIYRERKGSVILRNVTNNSTVLEGGKIESLRAIRYEISPDKEYVL
FSYNVEPVYQHSHTGYVLSKIPHGDPQSLDPPEVSNAKLQYAGWGPKGQQLIFIFENNIYYCAHVKGQA
IRVVSTGKEGVIYNGLSDWLYEEEILKSHIAHWWSPDGTRELAYATINDSRVPLMELPTYTGSVYPTVKPY
HYPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMREYYITMVKWATSTKVAVTWLNRAQNVSILTLCD
ATTGVCTKKHEDESEAWLHRQNEEPVFSKDGRKFFFVRAIPQGGRGKPHYHITVSSSQPNSSNDNIQSITS
GDWDVTKILSYDEKRNKIYFLSTEDLPRRRHLYSANTVDDFNQCLSCDLVENCTYVSASF SHNMDFFLL
KCEGPGVPTVTVHNTTDKRRMFDLEANEVQKAINDRQMPKIEYRKIEVEDYSLPMQILKPATFTDTAHY
PLLLVVDGTPGSQSVTERFEVETWETVLVSSHGAVVVKCDGRSGFGQTKLLQEVRRRLGFLEEKDQMEAV
RTMLKEQYIDKTRVAVFGKDYGGYLSTYILPAKGENQGQTFTCGSALSPITDFKL YASAFSERYLGLHGL
DNRAYEMTKLAHRVSALEDQQFLIIHATADEKIHFOHTAELITQLIKGKANYSLQIYPDESHYFHSVALK
QHLRSRIIGFFVECFRVQDKLPTATAKEEEEEED

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001136060

ORF Size: 2409 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_001136060.2](#), [NP_001129532.1](#)

RefSeq Size: 4531 bp

RefSeq ORF: 2412 bp

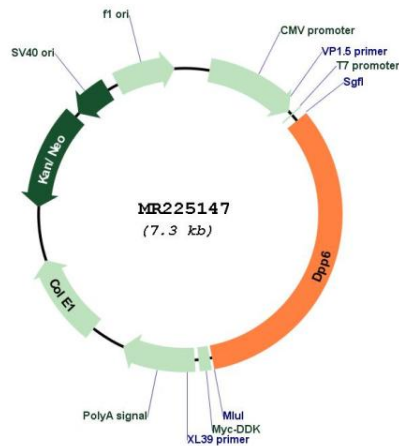
Locus ID: 13483

Cytogenetics: 5 12.92 cM

MW: 91.2 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 MR225147