

Product datasheet for **MR210711**

Dpp10 (NM_199021) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpp10 (NM_199021) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dpp10
Synonyms:	6430601K09Rik; DPP X; Dprp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210711 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAGCCATGAAGCAGGAGCAGCAACCCACCCAGGGGCCAGGGCAACCCAGTGCAGCCAGCCGACC
AGGAACTAGGAAGTAACAGCCCTCCACAAGAAACTGGAAGGGAATCGCCATTGCCCTGCTGGTGATCTT
GGTGGTATGCTCACTCATCAATGTCTGTCTCCTGTTAACACCAGATGAACTAACAAATCTTCAGAA
ACAAGACTGTCTAGAGGAGCTTTTGGGAAAGGATTCCGACTTCATAATCCAGAACCTCGGTGGATCA
ATGATACAGTCGTGGTATATAAAACCAACAATGGACACGTGATGAACTGAATACAGAATCAAAATGCTTC
CACATTGTTATTGGACAACCTCACTTTTGTAACTTTAAAGCCTCCAGACACTCACTTTCCCCAGATTTA
AAGTATGTTCTCCTGGCATAACGCTTAAAGCAGATTTTTCATTACTCATTACCGCTTCATATTTGATTT
ACAACATACACTGGGGAAGTGTGGGAGTTGAATCCCCAGAAGTTGAGGACTCAGTGTTCAGTATGC
GGCCTGGGGTGTCAAGGACAGCAGCTGATTTATATTTTTGAAAACAATATCTACTATCAACCTGATATC
AAGAGCAGTTCTTACGACTAACATCTTCAGGAAAGGAAGGCATTATTTTTAATGGGATTGCTGACTGGT
TATATGAAGAAGAACTTCTGCATTCTCATATCGCCCACTGGTGGTCCCCCGATGGAGAGAGACTTGCCCT
CCTGATGATAAATGACTCGTTGGTGCCTAACATGATCATACCTCGGTTTACTGGAGCACTGTACCCAAA
GCAAAGCAGTACCCATACCCCAAGGCAGGTCAAGCGAACCATCAGTGAAGTTATATGTTGTAACCTGT
ATGGACCAACTCATACTTTGGAGCTGATGCCACCCGACATTTTTAAATCAAGAGAATATTACATCACCAT
GGTTAAATGGGTGAGCAACACGAGGACAGTGGTCAGGTGGTTGAATCGGCCTCAGAACATCTCCATCCTC
ACACTCTGTGAATCTACCACCGGGCATGCAGCAGGAAATATGAGATGACGTCCGACACCTGGCTCTCTA
AACAGAACGAGGAGCCAGTGTTCAGAGATGGAAGCAAGTTCTTCATGACTGTTCTGTAAACAAG
TGGAAGAGGAGAATTCACCACATAGCTATGTTCTCCTGGTCCAGAGTAAAAGCGAGCAAAATACGGTGGC
CATCTGACATCAGGAACTGGGAAGTGATAAGGATCTTGGCCTATGATGAAAACAACCTCAAAAAATTTACT
TTCTGAGCACAGAATCTTCTCCCAAGGGAGGCAACTATACAGTCTTCTACTGAGGACTATTGAATCG
TGATTGCATCTCATGCACTTTATGAAAGAAGATTGCACGATTTTTGATGCCAGCTTTAGCCCCATGAAT
CAACATTTCTTGTATTCTGTGAAGTCCAAAGTCCCAGTGGTCAGCCTTCACATCACAGACAACCCAT
CAAGGTATTTCTCTTGGAAAACAATTCTGTGATGAAAGAACTATTGAGAAGAAGCTCGCAAAGAG
AGAGACTAGAATACTTCACATTGATGACTATGAACTTCTTTACAGTTGCTCTTCCCAAAGATTTTATG
GAGAAAAACCAGTATGCTCTTCTATTAATAATGGATGAAGAACCAGGAGGCCAAATGGTGACAGATAAGT
TCCATGTTGACTGGGATTCAGTTCTTATTGACACCGATAATGTCATTGTAGCAAGATTTGATGGCAGAGG
AAGTGGATTCCAGGGCCTGAAAGTTTTGCAGGAGATTCACAGAAGGATAGGCTCAGTGGAGGCAAAGGAC
CAAGTAGCTGCTGTAATAATTTACTGAAACAGCCATATATTGACTCCAAAAGATTAAGCATTTTTGGAA
AGGGATATGGGGCTATATTGCATCAATGATCTTAAAAACAGATGAGAAGTTTTTCAAATGTGGAGCCGT
GGTTGCACCCATCTCAGACATGAAGTTGTATGCCTCAGCTTTCTGTAACGGTACCTTGGCATGCCATCA
AAGGAAGAAGCACTTACCAGGCATCCAGTGTACTGCATAACATTCATGGTTTAAAAGAAGAAAAATTTAT
TAATAATTCACGGAACCTGCTGATACAAAAGTTCATTTCCAGCATTGATGATCAAGCATCTGAT
AAAAGCTGGGGTGAATTACACTCTGCAGTCTATCCAGATGAAGGATATCACATTTGAGACAAGAGCAAG
CATCATTTTTACAGCACAACTCTCAGATCTTCCAGTATTGCTAAAGGAAGAGGATCTGTGCTGCCAC
AGGAACCAAGAAGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210711 protein sequence

Red=Cloning site Green=Tags(s)

MTAMKQEQQPTPGARATQSQPADQELGSNSPPQRNWKGIALLVILVVCSLITMSVILLTPDEL TNSSE
TRL SLEELLGKGFGLHNPEPRWINDTVVYKTNNGHVMKLNTE SNASTLLLDNSTFVTFKASRHSLSPDL
KYVLLAYDVKQIFHYSFTASYLIYNIHTGEVWELNPPEVEDSVLQYAAWGVQGGQLIYIFENNIYYQPD
KSSSLRLTSSGKEGII FNGIADWLYEEELLHSHIAHWWSPDGERLAFLMINDSLVPNMIIPRFTGALY
AKQYPYPKAGQANPSVKLYVYNLYGPTHLELMPPDIFKSREYYITMVKWSNTRTVVRWLNRPQNI
SIL TLCESTTGACSRKYEMTSDTWLSKQNEEPVFSRDGSKFFMTVPVKQGGGREGFHHIAMFLVQSK
SEQITVR HLTSGNWEVIRILAYDETTQKIYFLSTESSPQGRQLYSASTEGLLNDRDCISCNFMKEDCT
YFDASFSPMN QHFLLFCEGPKVPVSLHITDNPSRYFLENNVMKETIQKKLAKRETRILHIDDYEL
PLQLSFPKDFM EKNQYALLIMDEEPGGQMVTDKFHVDWDSVLIDTDNVIVARFDGRGSGFQGLK
VLQEIHRRIGSVEAKD QVAAVKYLKQPYIDSKRLSIFGKGYGGYIASMILKSDEKFFKCGAVVAP
ISDMKLYASAFSERYLGMP SKEESTYQASSVLHNIHGLKEENLLIIHGTADTKVHFQHS
AELIKHLIKAGVNYTLQVYPDEGYHISDKSK HHFYSTILRFFSDCLKEEVS
VLPQEPEEDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_199021

ORF Size: 2400 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_199021.3](#), [NP_950186.3](#)

RefSeq Size: 4648 bp

RefSeq ORF: 2403 bp

Locus ID: 269109

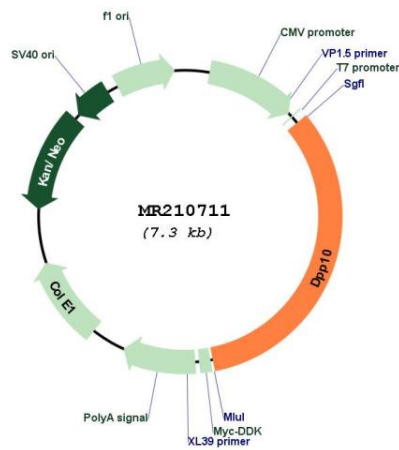
UniProt ID: [Q6NXX7](#)

Cytogenetics: 1 E2.3

MW: 91.1 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 (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210711