

Product datasheet for **MG225147**

Dpp6 (NM_001136060) Mouse Tagged ORF Clone

Product data:

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

>MG225147 representing NM_001136060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCACAGCCAAGGAGCCAGCGCCTCAGGAAAATCTGTACAGCAGCAGGATCAGGAGCTGGTGGGGA
 GTAATCCTCCACAGAGGAAGTGGAAAGGAATCGCCATTGCGCTGCTCGTCATCCTTGTCTGCTCTCT
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 TCATCTACAGAGAACGGAAAGGGAGTGTACTGCGGAATGTTGAAACAAATAATCCACGGTGTAAAT
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 GGGAAAGGCCAATTACAGCTTACAGATCTACCCAGATGAGAGTCACTACTTCCACAGCGTGGCGCTCAAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225147 representing NM_001136060
Red=Cloning site Green=Tags(s)

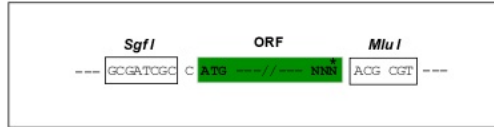
MTTAKEPSASGKSVQQDQELVGSNPPQRNWKGIALLVILVICSLIVTSVILLTPAEDTSLSQKKKVT
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DNRAYEMTKLAHRVSALEDQQFLIIHATADEKIHFOHTAELITQLIKGKANYSLQIYPDESHYFHSVALK
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

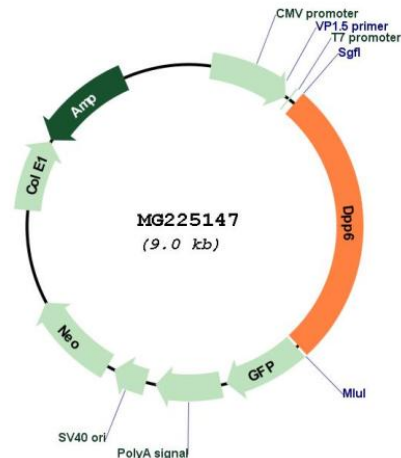
Cloning sites used for ORF Shutting:



EcoRI *BamHI* *KpnI* RBS *Kozac Consensus* *SgfI* *AscI*
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* GFP Tag
CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
T R T R P L E M E S D - - -

PmeI *FseI*
--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
- - - E E R V Stop

Plasmid Map:


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

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]