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Product datasheet for RG216919

DPP6 (NM_001039350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP6 (NM_001039350) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPP6
Synonyms:	DPL1; DPPX; MRD33; VF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG216919 representing NM_001039350
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGAAAAGGCCATGATCAAGACCGCTAAGATGCAGGGGAACGTGATGGAGCTGGTGGGGAGTAACC
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CTCCTGGTGGTGGATGGCACCCCAGGCAGCCAGAGTGTGGCTGAGAAGTTCGAGGTGAGCTGGGAGACGG
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CTGTACCGGTCCATCATCAACTTCTTCGTGGAATGCTTCAGGATCCAGGACAAACTGCTGACAGTCACAG
CGAAAGAGGACGAGGAGGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216919 representing NM_001039350
Red=Cloning site Green=Tags(s)

MKEKAMIKTAKMQGNVMELVGSNPPQRNWKGIAIALLVILVICSLIVTSVILLTPAEDNSLSQKKKVTVE
DLFSEDFKIHDPEAKWISDTEFIYREQKGTVRLWNVETNTSTVLIEGKKIESLRAIRYEISPDREYALFS
YNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPEVSNAKLQYAGWGPKGQQLIFIFENNIYYCAHVGKQAIR
VVSTGKEGVIYNGLSDWLYEEEILKTHIAHWWSPDGTRLAYAAINDSRVPIMELPTYTGSIYPTVKPYHY
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TGVCTKKHEDESEAWLHRQNEEPVFSKDGRKFFFIRAIPQGGRGKFYHITVSSSQPNSSNDNIQSITSGD
WDVTKILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCTYFSASFSHSMDFFLLKC
EGPGVPMVTVHNTTDKKKMFDLETNEHVKKAINDRQMPKVEYRDIEIDDYNLPMQILKPATFTDTTHYPL
LLVVDGTPGSQSVAEKFEVSWETVMVSSHGAVVVKCDGRGSGFQGTKLLHEVRRRLGLLEEKDQMEAVRT
MLKEQYIDRTRVAVFGKDYGGYLSTYILPAKGENQGQTFTCGSALSPITDFKLYASAFSERYLGLHGLDN
RAYEMTKVAHRVSALEEQQFLIIHPTADEKIHFQHTAELITQLIRGKANYSLQIYPDESHYFTSSSLKQH
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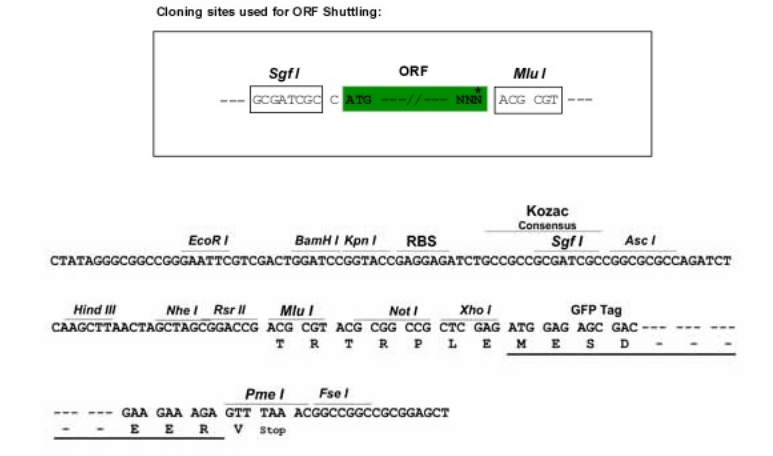
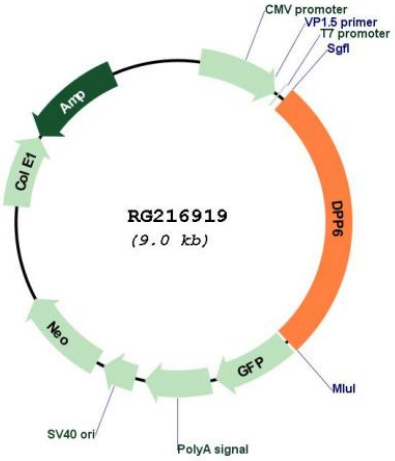
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001039350
ORF Size:	2403 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_001039350.3
RefSeq Size:	4571 bp
RefSeq ORF:	2406 bp
Locus ID:	1804
Cytogenetics:	7q36.2
Protein Families:	Druggable Genome, Protease, Transmembrane

Gene Summary: This gene encodes a single-pass type II membrane protein that is a member of the peptidase S9B family of serine proteases. This protein has no detectable protease activity, most likely due to the absence of the conserved serine residue normally present in the catalytic domain of serine proteases. However, it does bind specific voltage-gated potassium channels and alters their expression and biophysical properties. Variations in this gene may be associated with susceptibility to amyotrophic lateral sclerosis and with idiopathic ventricular fibrillation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]