OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205435

DPP10 (NM_020868) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP10 (NM_020868) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP10
Synonyms:	DPL2; DPPY; DPRP-3; DPRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC205435 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCAAACTGCCAGCGTGTCCCATCACATCAAGTGTCAACCCTCAAAAACAATCAAGGAACTGGGAA
GTAACAGCCCTCCACAGAGAAACTGGAAGGGAATTGCTATTGCTCTGCTGGTGATTTTAGTTGTATGCTC
ACTCATCACTATGTCAGTCATCCTCTTAACCCCAGATGAACTCACAAATTCGTCAGAAACCAGATTGTCT
TTGGAAGACCTCTTTAGGAAAGACTTTGTGCTTCACGATCCAGAGGCTCGGTGGATCAATGATACAGATG
TGGTGTATAAAAGCGAGAATGGACATGTCATTAAACTGAATATAGAAACAAATGCTACCACATTATTATT
GGAAAACACAACTTTTGTAACCTTCAAAGCATCAAGACATTCAGTTTCACCAGATTTAAAATATGTCCTT
CTGGCATATGATGTCAAACAGATTTTTCATTATTCATATACTGCTTCATATGTGATTTACAACATACACA
CTAGGGAAGTTTGGGAGTTAAATCCTCCAGAAGTAGAGGACTCCGTCTTGCAGTACGCGGCCTGGGGTGT
CCAAGGGCAGCAGCTGATTTATATTTTTGAAAATAATATCTACTATCAACCTGATATAAAGAGCAGTTCA
TTGCGACTGACATCTTCTGGAAAAGAAGAAATAATTTTTAATGGGATTGCTGACTGGTTATATGAAGAGG
AACTCCTGCATTCTCACATCGCCCACTGGTGGTCACCAGATGGAGAAAGACTTGCCTTCCTGATGATAAA
TGACTCTTTGGTACCCACCATGGTTATCCCTCGGTTTACTGGAGCGTTGTATCCCAAAGGAAAGCAGTAT
CCGTATCCTAAGGCAGGTCAAATGAACCCAACAATAAAATTATATGTTGTAAACCTGTATGGACCAACTC
ACACTTTGGAGCTCATGCCACCTGACAGCTTTAAATCAAGAGAATACTATATCACTATGGTTAAATGGGT
AAGCAATACCAAGACTGTGGTAAGATGGTTAAACCGAGCTCAGAACATCTCCATCCTCACAGTCTGTGAG
ACCACTACAGGTGCTTGTAGTAAAAAATATGAGATGACATCAGATACGTGGCTCTCTCAGCAGAATGAGG
AGCCCGTGTTTTCTAGAGACGGCAGCAAATTCTTTATGACAGTGCCTGTTAAGCAAGGGGGACGTGGAGA
ATTTCACCACATAGCTATGTTCCTCATCCAGAGTAAAAGTGAGCAAATTACCGTGCGGCATCTGACATCA
GGAAACTGGGAAGTGATAAAGATCTTGGCATACGATGAAACTACTCAAAAAATTTACTTTCTGAGCACTG
AATCTTCTCCCAGAGGAAGGCAGCTGTACAGTGCTTCTACTGAAGGATTATTGAATCGCCAATGCATTTC
ATGTAATTTCATGAAAGAACAATGTACATATTTTGATGCCAGTTTTAGTCCCATGAATCAACATTTCTTA
TTATTCTGTGAAGGTCCAAGGGTCCCAGTGGTCAGCCTACATAGTACGGACAACCCAGCAAAATATTTTA
TATTGGAAAGCAATTCTATGCTGAAGGAAGCTATCCTGAAGAAGAAGATAGGAAAGCCAGAAATTAAAAT
CCTTCATATTGACGACTATGAACTTCCTTTACAGTTGTCCCTTCCCAAAGATTTTATGGACCGAAACCAG
TATGCTCTTCTGTTAATAATGGATGAAGAACCAGGAGGCCAGCTGGTTACAGATAAGTTCCATATTGACT
GGGATTCCGTACTCATTGACATGGATAATGTCATTGTAGCAAGATTTGATGGCAGAGGAAGTGGATTCCA
GGGTCTGAAAATTTTGCAGGAGATTCATCGAAGATTAGGTTCAGTAGAAGTAAAGGACCAAATAACAGCT
GTGAAATTTTTGCTGAAACTGCCTTACATTGACTCCAAAAGATTAAGCATTTTTGGAAAGGGTTATGGTG
GCTATATTGCATCAATGATCTTAAAATCAGATGAAAAGCTTTTTAAATGTGGATCCGTGGTTGCACCTAT
CACAGACTTGAAATTGTATGCCTCAGCTTTCTCTGAAAGATACCTTGGGATGCCATCTAAGGAAGAAAGC
ACTTACCAGGCAGCCAGTGTGCTACATAATGTTCATGGCTTGAAAGAAGAAAATATATTAATAATTCATG
GAACTGCTGACACAAAAGTTCATTTCCAACACTCAGCAGAATTAATCAAGCACCTAATAAAAGCTGGAGT
GAATTATACTATGCAGGTCTACCCAGATGAAGGTCATAACGTATCTGAGAAGAGCAAGTATCATCTCTAC
AGCACAATCCTCAAATTCTTCAGTGATTGTTTGAAGGAAGAAATATCTGTGCTACCACAGGAACCAGAAG
AAGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC205435 protein sequence
Red=Cloning site Green=Tags(s)

MNQTASVSHHIKCQPSKTIKELGSNSPPQRNWKGIAIALLVILVVCSLITMSVILLTPDELTNSSETRLS
LEDLFRKDFVLHDPEARWINDTDVVYKSENGHVIKLNIETNATTLLLENTTFVTFKASRHSVSPDLKYVL
LAYDVKQIFHYSYTASYVIYNIHTREVWELNPPEVEDSVLQYAAWGVQGQQLIYIFENNIYYQPDIKSSS
LRLTSSGKEEIIFNGIADWLYEEELLHSHIAHWWSPDGERLAFLMINDSLVPTMVIPRFTGALYPKGKQY
PYPKAGQMNPTIKLYVVNLYGPTHTLELMPPDSFKSREYYITMVKWVSNTKTVVRWLNRAQNISILTVCE
TTTGACSKKYEMTSDTWLSQQNEEPVFSRDGSKFFMTVPVKQGGRGEFHHIAMFLIQSKSEQITVRHLTS
GNWEVIKILAYDETTQKIYFLSTESSPRGRQLYSASTEGLLNRQCISCNFMKEQCTYFDASFSPMNQHFL
LFCEGPRVPVVSLHSTDNPAKYFILESNSMLKEAILKKKIGKPEIKILHIDDYELPLQLSLPKDFMDRNQ
YALLLIMDEEPGGQLVTDKFHIDWDSVLIDMDNVIVARFDGRGSGFQGLKILQEIHRRLGSVEVKDQITA
VKFLLKLPYIDSKRLSIFGKGYGGYIASMILKSDEKLFKCGSVVAPITDLKLYASAFSERYLGMPSKEES
TYQAASVLHNVHGLKEENILIIHGTADTKVHFQHSAELIKHLIKAGVNYTMQVYPDEGHNVSEKSKYHLY
STILKFFSDCLKEEISVLPQEPEEDE

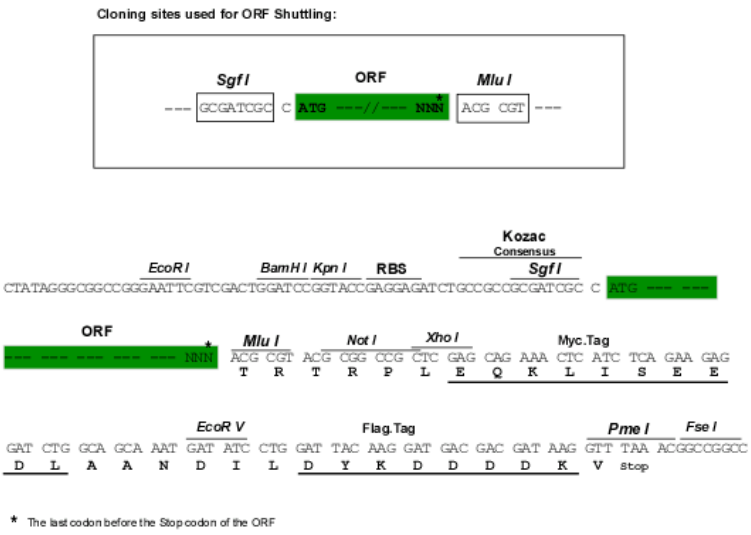
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6236_f09.zip

Restriction Sites: SgfI-MluI

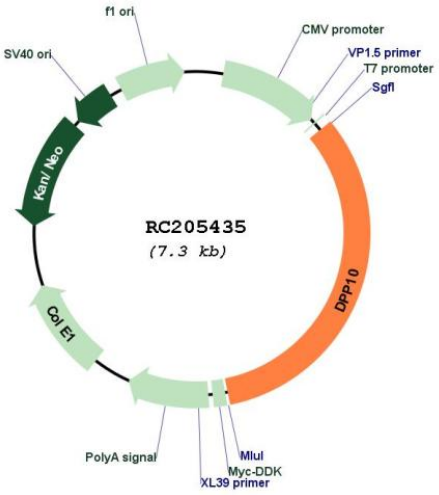
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:

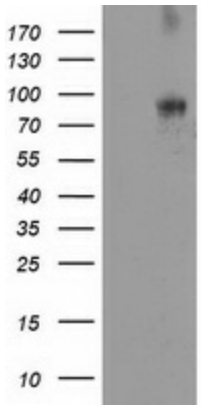


This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

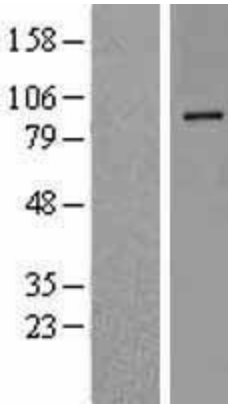
ACCN:	NM_020868
ORF Size:	2388 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_020868.1
RefSeq Size:	5253 bp
RefSeq ORF:	2391 bp
Locus ID:	57628
UniProt ID:	Q8N608
Cytogenetics:	2q14.1
Domains:	Peptidase_S9, DPPIV_N_term
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	90.9 kDa
Gene Summary:	This gene encodes a single-pass type II membrane protein that is a member of the S9B family in clan SC of the 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. Mutations in this gene have been associated with asthma. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

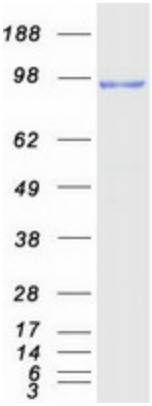
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DPP10 (Cat# RC205435, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DPP10 (Cat# [TA503585]). Positive lysates [LY412236] (100ug) and [LC412236] (20ug) can be purchased separately from OriGene.

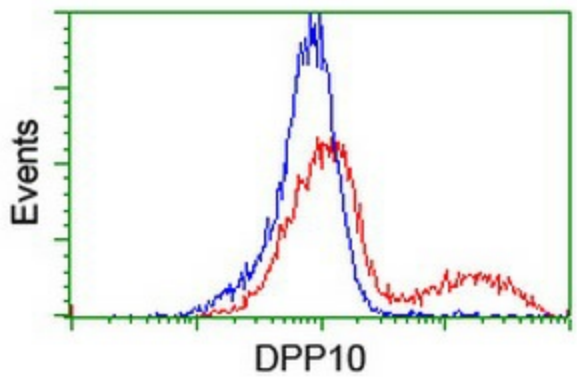


Western blot validation of overexpression lysate (Cat# [LY412236]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205435 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP10 protein (Cat# [TP305435]). The protein was produced from HEK293T cells transfected with DPP10 cDNA clone (Cat# RC205435) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



HEK293T cells transfected with either RC205435 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-DPP10 antibody ([TA503585]), and then analyzed by flow cytometry.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US