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Product datasheet for RC209456

PDXP (NM_020315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDXP (NM_020315) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDXP
Synonyms:	CIN; dJ37E16.5; PLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209456 representing NM_020315
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGCTGCGAGAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCCTGT
TCGACTGTGACGGGGTGCTGTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCT
GGCGCGGGCCGGCAAGGCGGCTCTGTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTG
CGCTTCGCGCGCCTCGGCTTCGGGGGGCTGCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGC
GCCTGCTGCGCCAGCGCCTGCCCGGGCCTCCGGACGCGCCGGGCGCCGTGTTCGTGCTGGGCGGCGAGGG
GCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGCCGGGGACCCGAGCGCGGGGGACGGCGCGGCC
CCGCGCGTGCGCGCCGTGCTTGTGGGCTACGACGAGCACTTCTCCTTCGCCAAGCTGAGGGAGGCGTGCG
CGCACCTGCGCGACCCCGAGTGCCTACTCGTGGCCACCGACCGTGACCCATGGCACCCGCTGAGCGACGG
CAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGGACGCCAGGCCCTGGTG
GTGGGCAAGCCCAGCCCCTACATGTTCGAGTGCATCACGGAGAACTTCAGCATCGACCCCGCACGCACGC
TTATGGTGGGTGACCGCCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGTGCTCAC
GCTCACAGGAGTCTCCCGCCTAGAAGAGGCCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCCC
CATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209456 representing NM_020315
Red=Cloning site Green=Tags(s)

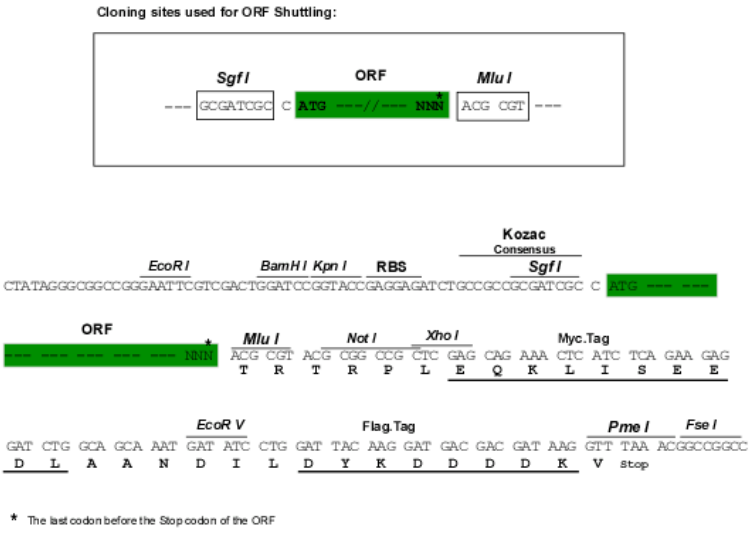
MARCERLRGAALRDVLGRAQGVLFDCDGVLWNGERAVPGAPELLERLARAGKAALFVSNNSRRARPELAL
RFARLGFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGLRAELRAAGLRLAGDPSAGDGAA
PRVRAVLVGYDEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGSLAAAVETASGRQALV
VGKPSPYMFECITENFSIDPARTLMVGDRLETDILFGHRCGMTTVLTLTGVSRLEEAQAYLAAGQHDLVP
HYYVESIADLTEGLED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8114_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020315

ORF Size: 888 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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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_020315.5
RefSeq Size:	2072 bp
RefSeq ORF:	891 bp
Locus ID:	57026
UniProt ID:	Q96GD0
Cytogenetics:	22q13.1
Domains:	Hydrolase
Protein Pathways:	Metabolic pathways, Vitamin B6 metabolism
MW:	31.5 kDa
Gene Summary:	Pyridoxal 5-prime-phosphate (PLP) is the active form of vitamin B6 that acts as a coenzyme in maintaining biochemical homeostasis. The preferred degradation route from PLP to 4-pyridoxic acid involves the dephosphorylation of PLP by PDXP (Jang et al., 2003 [PubMed 14522954]).[supplied by OMIM, Mar 2008]

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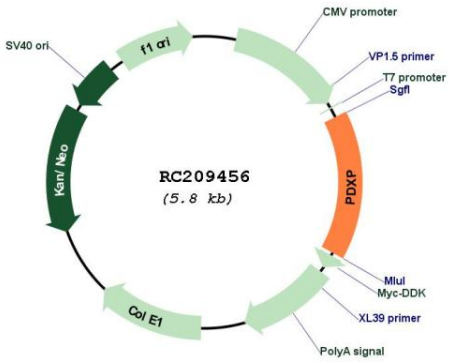
Product images:



Circular map for RC209456

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