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Product datasheet for RC220805

DPRX (NM_001012728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPRX (NM_001012728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPRX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220805 representing NM_001012728
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGGCTCAGAGGATCTTCGTAAAGGCAAGGACCAGATGCATTCACACAGGAAACGAACCATGTTCA
CTAAGAAGCAACTGGAAGATCTGAACATCTTGTTCAATGAGAACCCATACCCAAACCCCAGCCTTCAGAA
AGAAATGGCCTCGAAAATAGACATACACCCAACAGTACTGCAGGTCTGGTTCAAGAATCACAGAGCAAAA
CTCAAGAAAGCGAAATGCAAGCATATTCATCAAAAACAAGAAACTCCACAACCGCCAATACCAGAGGGTG
GGGTCTCCACCAGTGTCGGCCTGAGAAATGCAGACACACTACCCAGATTGCCCAACGCTGCTCACCCGAT
CGGCCTGGTGTACACGGGTCATCGAGTCCCCTCATTCCAGCTCATCCTGTACCCCAACCTCAAGGTCCCT
GCAAATGACTTCATTGGCCACAGAATAGTCCATTTTGGCTGCTGCCGAGATCCTAATATATACTGCCTCT
ACCCCATTTTGGAATCCCAAGTTTGCGCTCCAAGCTTCCATTCTGGCTCTCCTGCCTGTTCATCTAACCA
AAGTCGAGAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220805 representing NM_001012728
Red=Cloning site Green=Tags(s)

MPGSEDLRKGKDQMHSHRKRTMFTKKQLEDLNILFNENPYPNPSLQKEMASKIDIHPTVLQVWFKNHRAK
LKKAKCKHIHQKQETPQPPIPEGGVSTSVGLRNADTLPRLPNAAHPIGLVYTGHRVPSFQLILYPNLKVP
ANDFIGHRIVHFGCCRDPNIYCLYPILESQVCAPSFHSGSPACSSNQSRER

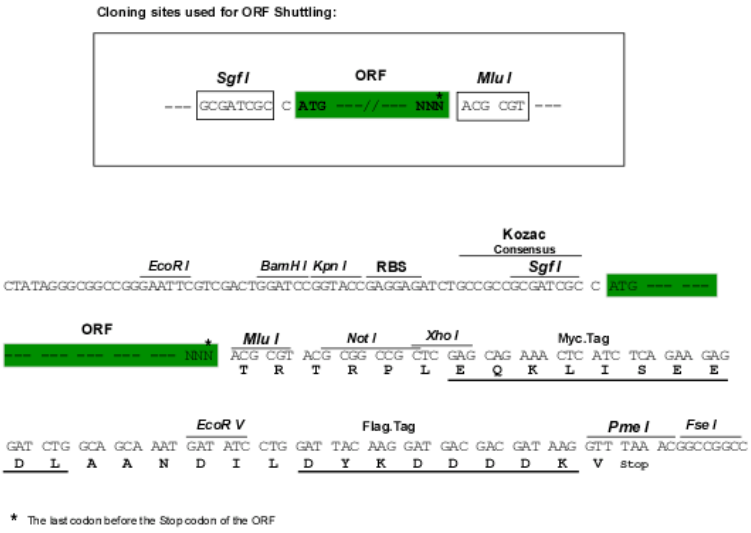
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8041_e05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012728

ORF Size: 573 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001012728.1, NP_001012746.1

RefSeq Size: 648 bp

RefSeq ORF: 576 bp

Locus ID: 503834

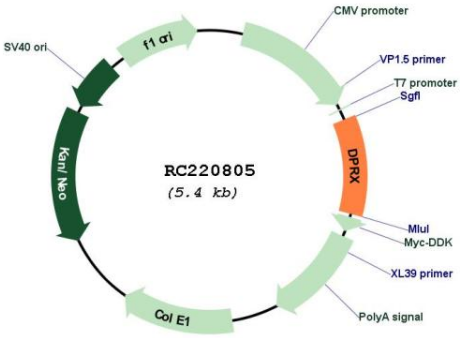
UniProt ID: A6NFQ7

Cytogenetics: 19q13.42

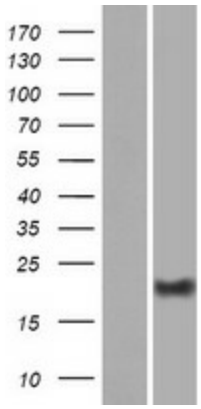
MW: 21.5 kDa

Gene Summary: Homeobox genes encode DNA-binding proteins, many of which are thought to be involved in early embryonic development. Homeobox genes encode a DNA-binding domain of 60 to 63 amino acids referred to as the homeodomain. This gene is a member of the DPRX homeobox gene family. Evidence of mRNA expression has not yet been found for this gene. Multiple, related processed pseudogenes have been found which are thought to reflect expression of this gene in the germ line or embryonic cells. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220805



Western blot validation of overexpression lysate (Cat# [LY422823]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220805 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).