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Product datasheet for RC230097

DP2 (TFDP2) (NM_001178139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DP2 (TFDP2) (NM_001178139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DP2
Synonyms:	DP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC230097 representing NM_001178139
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGCAAAAAATGTTGGTTTGACTTCCACAAATGCAGAAGTAAGAGGATTTATAGATCAGAATCTCA
GTCCAACAAAAGGCAACATTTCATTTGTTGCATTTCCAGTTTCCAATACCAACTCACCTACAAAGATTTT
ACCAAAAACCTTAGGACCAATAAATGTGAATGTTGGACCCCAAATGATTATAAGCACACCACAGAGACTA
ACCAGTTCAGGAAGTGTTCTGATTGGGAGTCCATATACCCCTGCACCAGCAATGGTTACTCAGACACACA
TAGCAGAAGCTACTGGCTGGGTCCCTGGTGATAGAAAACGGGCTAGAAAATTTATAGACTCTGATTTTTC
AGAAAGTAAACGAAGCAAAAAAGGAGATAAAAATGGGAAAGGCTTGAGACACTTTTCAATGAAAGTGTGT
GAGAAAGTTCAACGAAAAGGTACAACATCGTACAATGAAGTCGCTGATGAGCTGGTGTCAGAGTTCACCA
ATTCAAATAACCATTTGGCTGCTGATTCGGCTTATGATCAGAAGAACATTAGGCGAAGAGTTTATGATGC
TTTAAATGTGCTAATGGCAATGAACATAATTTCAAAGGAAAAAAAAGAAATCAAGTGGATTGGCCTGCCT
ACCAATTCTGCTCAGGAATGTCAGAATCTGGAGATAGAGAAGCAGAGGCGGATAGAACGGATAAAGCAGA
AGCGGGCCCAGCTGCAAGAACTTCTCCTACAGCAAATCGCTTTCAAAAACCTGGTACAGAGAAATCGACA
AAATGAGCAGCAAAACCAGGGCCCGCCGGCTCTGAACTCTACCATTCAGCTGCCATTCATAATCATCAAT
ACAAGCAGAAAAACAGTCATAGATTGCAGCATCTCCAGTGACAAGTTTGAGTATCTTTTCAATTTTGACA
ACACCTTTGAGATCCATGATGACATAGAAGTACTAAAGCGGATGGGAATGTCGTTTGGCCTGGAGTCAGG
CAAATGCTCTCTGGAGGATCTGAAACTTGCGAAATCCCTGGTGCCAAAGGCTTTAGAAGGTTATATCACA
GATATCTCCACAGGACCTTCTTGGTTAAATCAGGGACTACTTCTGAACTCTACCCAATCAGTTTCAAATT
TAGACCTGACCACTGGTGCCACCTTACCCCAGTCAAGTGTAAACCAAGGGTTATGCTTGGATGCAGAAGT
GGCCTTAGCAACTGGGCAGTTCCTGGCCCCAAACAGTCACCAGTCCAGCAGTGCGGCCTCTCACTGCTCC
GAGTCCCGAGGCGAGACCCCCTGTTCGTTCAATGATGAAGATGAGGAAGATGATGAGGAGGATTCCTCCT
CCCCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230097 representing NM_001178139
Red=Cloning site Green=Tags(s)

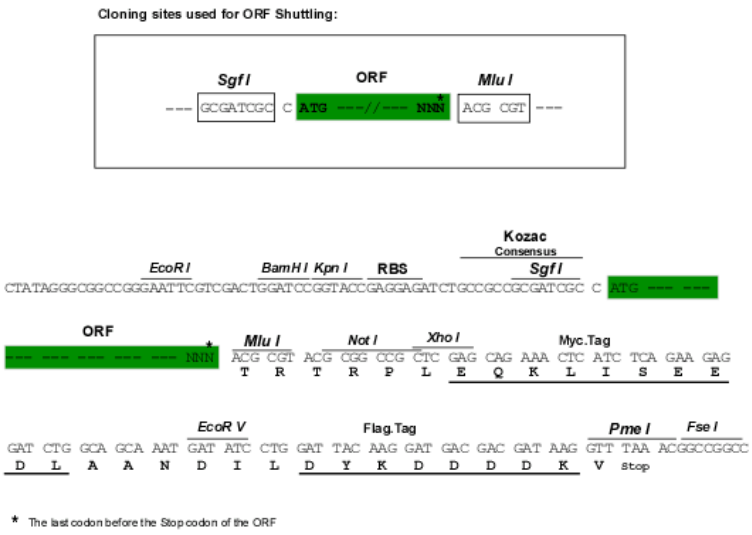
MTAKNVGLTSTNAEVRGFIDQNLSPTKGNISFVAFPVSNTNSPTKILPKTLGPINVNVGPQMIISTPQRL
TSSGSVLIGSPYTPAPAMVTQTHIAEATGWVPGDRKRARKFIDSDFSESKRSKKGDKNGKGLRHFSMKVC
EKVQRKGTTSYNEVADELVSEFTNSNNHLAADSAYDQKNIRRRVYDALNVLMAMNIISKEKKEIKWIGLP
TNSAQECQNLEIEKQRRIERIKQKRAQLQELLLQQIAFKNLVQRNRQNEQQNQGPPALNSTIQLPFIIIN
TSRKTVIDCSISSDKFEYLFNFDNTFEIHDDIEVLKRMGMSFGLESGKCSLEDLKLAKSLVPKALEGYIT
DISTGPSWLNQGLLLNSTQSVSNLDLTTGATLPQSSVNQGLCLDAEVALATGQFLAPNSHQSSSAASHCS
ESRGETPCSFNDEDEEDDEEDSSSPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8060_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001178139

ORF Size: 1338 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_001178139.2

RefSeq ORF: 1341 bp

Locus ID: 7029

UniProt ID: Q14188

Cytogenetics: 3q23

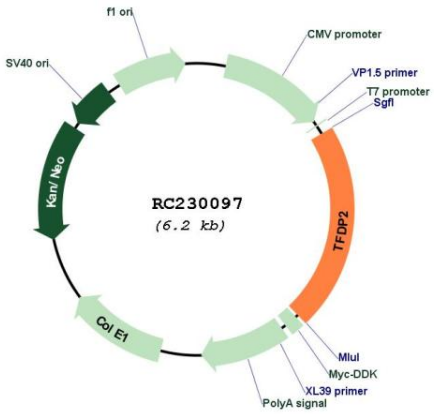
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cell cycle

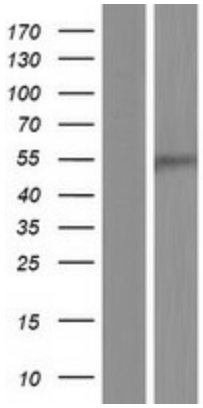
MW: 49.7 kDa

Gene Summary: The gene is a member of the transcription factor DP family. The encoded protein forms heterodimers with the E2F transcription factors resulting in transcriptional activation of cell cycle regulated genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Product images:



Circular map for RC230097



Western blot validation of overexpression lysate (Cat# [LY433097]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230097 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).