

Product datasheet for **RC208773**

E2F2 (NM_004091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2F2 (NM_004091) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2F2
Synonyms:	E2F-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208773 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCAAGGGCCCCGGCCTTGCTTCGGCCGCTGGGCAGACCCCAAGGTGGTGCCCGGATGAGCC
 CCACAGAGCTGTGGCCATCCGGCCTCAGCAGCCCCAGCTCTGCCAGCTACTGCTACCTACTACACACC
 GCTGTACCCGACAGCGGCCTCCCGCAGCGGCCAGGCACCTGCCTCGACGCCACTCCCCACGGACCC
 GAGGGCCAAGTTGTGCGATGCCTGCCGGCAGGCCGGCTGCCGGCCAAAAGGAAGCTGGATCTGGAGGGGA
 TTGGGAGGCCCGTCGTCCTGAGTTCCTCAACCCCCAAGGGGAAGTGCATCAGAGTGGATGGCCTCCCCAG
 CCCCCAAAACCCCAATCCCCGGGGAGAAGACTCGGTATGACACTTCGCTGGGGCTGCTCACCAAGAAG
 TTCATTTACCTCCTGAGCGAGTCAGAGGATGGGGTCTGGACCTGAAGTGGCCGCTGAGGTGCTGGACG
 TGCAGAAGCGGCATCTATGACATCACCAACGTGCTGGAAGGCATCCAGCTCATCCGAAGAAGGCCAA
 GAACAACATCCAGTGGGTAGGCAGGGGAATGTTTGAAGACCCACCAGACCTGGGAAGCAGCAACAGCTG
 GGCAGGAGCTGAAGGAGCTGATGAACACGGAGCAGGCCTTGGACCATCTCATCCAGAGCTGCTCTCTGA
 GCTTCAAGCACCTGACTGAGGACAAGGCCAACAAGAGGCTGGCCTATGTGACTTACCAGGATATCCGTGC
 TGTGGCAACTTTAAGGAGCAGACAGTATTGCCGTCAAGGCCCTCCGACAGCAGACTGGAAGTGCC
 GACAGGACTGAGGACAACCTGCAGATATATCTCAAGAGCACCCAAGGGCCATCGAAGTCTACCTGTGCC
 CAGAGGAGGTGCAGGAGCCGGACAGTCTTCCGAGGAGCCTCTCCCTCTACCTCCACCTCTGCCCCAG
 CCCTGACTCTGCCAGCCAGCAGCAGCACCGACCCTAGCATCATGGAGCCACAGCATCCTCAGTGCCA
 GCACCAGCGCCAAACCCCAAGCAGGCCCCACCGCCTCCATCCCTGGTCCCCTTGGAGGCTACTGACAGCC
 TGCTGGAGCTGCCGACCCACTCCTGCAGCAGACTGAGGACCAGTCTCTGTCCCCGACCCCTGGCGTGCAG
 CTCCTCTGATCAGCTTCTCCCATCCTTGGACCAGGACGACTACCTGTGGGGCTTGGAGCGGGTGAG
 GGCATCAGCGATCTCTCGACTCTACGACCTGGGGACCTGTTGATTAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208773 protein sequence
 Red=Cloning site Green=Tags(s)

MLQGPRALASAAGQTPKVVAMPSPTELWPSGLSSPQLCPATATYYTPLYPQTAPPAAAPGTCLDATHGP
 EGQVVRCLPAGRLPAKRKLDLEGI GRPVVPEFPTPKGKICIRVDGLPSPKTPKSPGKTRYDTSLLTKK
 FIYLLSESEdGVLdLNWAAEVLdVQKRRIYDITNVLEGIQLIRKKAKNNIQWVGRGMFEDPTRPGKQQQL
 GQELKELMNTEQALDHLIQSCSLSFKHLTEDKANKRLAYVYQDIRAVGNFKEQTVIAVKAPPQTRLEVP
 DRTEDNLQIYLKSTQGPiEVYLCPeeVQEPDspseePLPSTstLCPSPDSaQPSSSTDPsIMEPTASSVP
 APAPTPQQAPPPSLVPLEATDSLLELPHLLQQTEDQFLSPTLACSSPLISFSPSLDQDDYLWGLEAGE
 GISDLFDsYDLGDLLIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6861_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004091

ORF Size: 1311 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_004091.4](#)

RefSeq Size: 5201 bp

RefSeq ORF: 1314 bp

Locus ID: 1870

UniProt ID: [Q14209](#)

Cytogenetics: 1p36.12

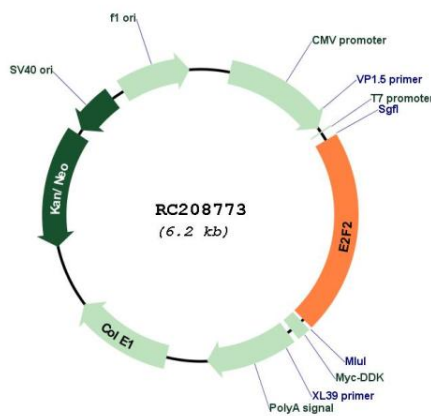
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer

MW: 47.5 kDa

Gene Summary: The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F1 and E2F3, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner, and it exhibits overall 46% amino acid identity to E2F1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208773