

Product datasheet for **RC213792**

FOXD4 (NM_207305) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXD4 (NM_207305) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXD4
Synonyms:	FKHL9; FOXD4A; FREAC-5; FREAC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213792 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTGCCAAGAGCTGAGCGCCTTCGCTCCACACCCGAGCGCAGCCTCCGGGACTCCGATGGGGAAG
 ACGGTAATAATCGATGTCCTGGGAGAGGAGGAAGATGAAGACGAGGAGGAGCGCGGAGCCAGCAGTTCTCT
 AGAGCAGTCGCTCCAGCCGGGGCTGCAGGTGGCCCGGTGGGGCGGGGTTGCGCTTCCCGAGAGCACATC
 GAGGGCGGCGGGCCCGAGCGACCCCTCAGAGTTTGGCACCGAGTTAGGGCACCGCAAGGTCTGCGG
 CGGCCTCTGAAGATGCCCGGAGCCGGCAAAGCCCCCTCTCGTACATCGCGCTCATCACCATGGCCAT
 CCTGCAAAGCCCCACAAGCGCCTCAGCTCAGCGGCATCTGCGCCTTATTAGTGACCGCTTCCCTAC
 TACCGCCGAAGTCCCCGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTGAACGACTGCTTCGTCA
 AGATCCCCCGGAGCGGGCCCGCCAGGCAAGGGCAACTACTGGAGCCTGGACCCCGCTCCAGGACAT
 GTTCGACAATGGCAGCTTCTCCGGCGTAGGAAGCGTTTCCAGCGCCACCAACCGACCCCGGGAGCCAC
 CTGCCCAACCCCTTCCCTCTACCTGCTGCACACCGCCCTGCACAACCCCGCCAGGCCCTCTGCTTG
 GGGCCCTGCCCCGCGCAGCCAGTCCCGGGGGCTACCCCAACACCGGCCCGGGAGACGCCCTTACGC
 TCTGCTGCACCCGCATCCTCTCGCTACCTACTGCTCTCGGCCCCCGCCTATGCCGGGGCACCGAAGAAA
 GCAGAAGCGCGGACCTGGCGACCCCGGACCCCTCCCGTGTGCAGCCCTCACTTGGTCTCAGCCTTG
 GGAGGAGGGCAAGGGTCTGGCGTCGCCACCGGGAGGCGGATGCATCTCTTTCAGCATTGAGAGTATCATG
 CAAGGGGTGAGGGAGCGGGTACAGGGGCTGCGCAGAGTTTGTCCCGACCGGTGGAGCTACTGCCCC
 TGCTCCAGCGACCGTCAAGCCTGTGGACAATTTGCAGCAACAGCAGCGGCATCAGGAGGAGACTGCG
 CCAACGGCTGCGCTCCACCAAGGGCGCGGTGCTGGGCGGGCACCTGTGCGCCCGTGGCGCTGCTGCG
 GTATCAGCGGTTGGCAGAGGGCTCTGGGCTGACATCGCTGGCCGCCCCCTTGGGCGGAGAGGGGACCTCA
 CCAGTTTTTTTAGTATCGCCACGCCAGTTCCCTGGCCGAGTCCGCAGGGCCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213792 protein sequence
 Red=Cloning site Green=Tags(s)

MNLPRERLRSTPQRSLRSDGEDGKIDVLGEEDEDEEEAASQQFLEQSLQPGLQVARWGGVALPREHI
 EGGGGPSDPSEFGTEFRAPPRSAASEDARQPAKPPSSYIALITMAILQSPHKRLTSGICAFISDRFPY
 YRRKFPWQNSIRHNLNLNDCFVKIPREPGRPGKGNYSWLDPASQDMFDNGSFLRRRKRFRHQPTGAH
 LPHFPFLPAHAALHNPRPGPLLGAAPPQVPGAYPNTGPGRRPYALLHPHPPRYLLLAPAYAGAPKK
 AEGADLTPAPFPCCSPHLVLSLGRRARVRRHREADASLSALRVSCKGSGERVQGLRRVCPRRGATAP
 CSSDRQACRTILQQQRHQEEDCANGCAPTKGAVLGGHLSAASALLRYQAVAEGLTSLAAPLGEGETS
 PVFLVSPTPSSLAESAGPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6456_a04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_207305

ORF Size: 1317 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_207305.5](#)
RefSeq Size: 2204 bp

RefSeq ORF: 1320 bp

Locus ID: 2298

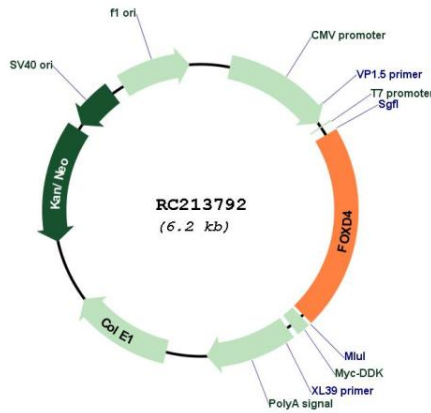
UniProt ID: [Q12950](#)
Cytogenetics: 9p24.3

Protein Families: Transcription Factors

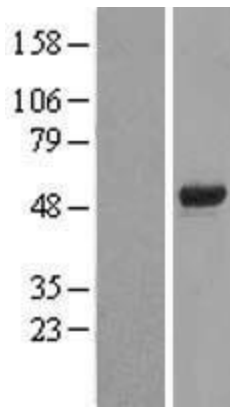
MW: 47.3 kDa

Gene Summary: This gene encodes a member of the forkhead/winged helix-box (FOX) family of transcription factors. FOX transcription factors play critical roles in the regulation of multiple processes including metabolism, cell proliferation and gene expression during ontogenesis. Mutations in this gene are associated with a complex phenotype consisting of dilated cardiomyopathy, obsessive-compulsive disorders, and suicidality. [provided by RefSeq, Mar 2012]

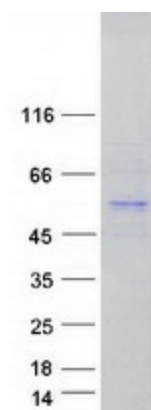
Product images:



Circular map for RC213792



Western blot validation of overexpression lysate (Cat# [LY404084]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213792 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FOXD4 protein (Cat# [TP313792]). The protein was produced from HEK293T cells transfected with FOXD4 cDNA clone (Cat# RC213792) using MegaTran 2.0 (Cat# [TT210002]).