

Product datasheet for **RR213628**

Foxc2 (NM_001101680) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxc2 (NM_001101680) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxc2
Synonyms:	Fkh14; Fkhl14; Hfhbf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213628 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGGCGCGCTACTCGGTGTCGGACCCCAACGCCTGGGAGTGGTACCCTACTTGAGCGAGCAA
 ACTACCGGGCGCGGCACTACGGCGGCATGGCCAGCCCATGGGCGTCTACTCCGGCCACCGGAGCA
 GTACGGCGCCGGCATGGGCCGCTTTACGCGCCCTACCACCACCAGCCCGCGCGCCCAAGGACCTGGTG
 AAGCCGCCCTACAGCTACATAGCGCTCATCACCATGGCGATCCAGAACGCGCCGGAGAAGAAGATCACCC
 TGAACGGCATCTACCAGTTCATCATGGACCGTTTTCCCTTCTACCAGGAGAAAGCAGGGCTGGCAGAA
 CAGCATCCGCCACAACCTGTCGCTCAACGAGTGTTCGTGAAGGTGCCGCGCATGACAAGAAGCCAGGC
 AAAGGTAGCTACTGGACGCTCGACCCGGACTCCTACAATATGTTTCGAGAACGGCAGCTTCTCGGGCGGC
 GCGGGCGCTTCAAGAAGAAGGACGTGCCAAGGATAAGGAGGAGCGGGCCACCTCAAGGAGCCGCCCC
 TGCTCGGCCAAAGGCGCCCGACAGGGACCCCGTAGCTGACGGGCCAAAGGAGCCGAGAAGAAAGTG
 GTGGTCAAGAGCGAGGCGCGTACCCGCGCTGCCGGTACACCAAGGTGGAGACGCTGAGTCCCAGG
 GCGCGCTGCAAGCCAGTCCCGCAGCTCAGCCTCCACGCCTGCCGGTCCCCAGACGGCTCGCTGCCGGA
 GCACCAGCCCGCGGCCAACGGGCTGCCCGGCTTACGCGTGGAGACCATCATGACGCTGCGCAGCTCG
 CCTCCGGGCGGCGATCTGAGCCAGCGCGCGCGCGCCGGCCTGGTGGTGCCACCGCTGGCGCTGCCAT
 ACGCCGACGCTCCACCAGCCGTTACGCACAGCCGTGCGCGCAGGGCCTGGAGGCTGCGGGCTCCGCGG
 CTACCAGTGCAGCATGCGGGCTATGAGTCTGTACACGGGGCCGAGCGGCTGCGCAGTGTGCGTTCCG
 CCCGCGCTGGACGAGGCTCTGTTCGGACCCCGAGCGGCCCGGCTCCCCGCTCGGCGCCCTCAACTCG
 CAGCGGGTCAAGGAGGTTGCGTTGGGGCTCGGGCCACCACCAGCATCACAGTCACTCCACCCGCG
 GCGCGCCGCCCGCCCGCCGACGCCCTCCCGCGCCGACCCCGCCACCCAGGCCACCTCCTGGTATCTG
 AACACGCGGGGACCTGAGCCCTCCCGGCCACACGTTTCGCGACCCAAAGCAAACCTTCCCAATG
 TCCGGGAGATGTTCAACTCGACCGGCTAGGACTGGACAACCTCGACCCTCGGGGAGTCCCAGGTGAGCAA
 TCGGAGCTGTAGCTGCCCTACCGAGCTACGCGTCCCTTACCGCCATGCAGCCCCCTACTCTACGAC
 TGCACCAATAT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213628 protein sequence
 Red=Cloning site Green=Tags(s)

MQARYSVSDPNALGVVPYLSEQNYRAAGSYGGMASPMGVYSGHPEQYAGMGRSYAPYHHQPAAPKDLV
 KPPYSYIALITMAIQNAPEKKITLNGIYQFIMDRFPFYRENKQWQNSIRHNLNLNECFVKVPRDDKKPG
 KGSYWTLDPDSYNMFENGSLRRRRRFKFKDVPKDKKEERHLKEPPPASAKGAPTGPVADGPKEAEKKV
 VVKSEAASPALPVITKVELSPEGALQASPRSSASTPAGSPDGSLEPHHAAAPNGLPGFSVETIMTLRTS
 PPGDLSPAARAGLVVPLALPYAAAPPAAAYQPCAQGLEAAGSAGYQCSMRAMSLYTGAERPAHVCP
 PALDEALSDHPSGPGSPLGALNLAAGQEGALGASGHHQHSHLHPQAPPAPQPPAPQATQATSWYL
 NHGGDLSHLPGHTFATQQQTFPNVREMFNSHRLGLDNSTLGESQVSNASCQLPYRATPSLYRHAAPYSYD
 CTKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001101680

ORF Size: 1482 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_001101680.1](#), [NP_001095150.1](#)

RefSeq Size: 2703 bp

RefSeq ORF: 1485 bp

Locus ID: 171356

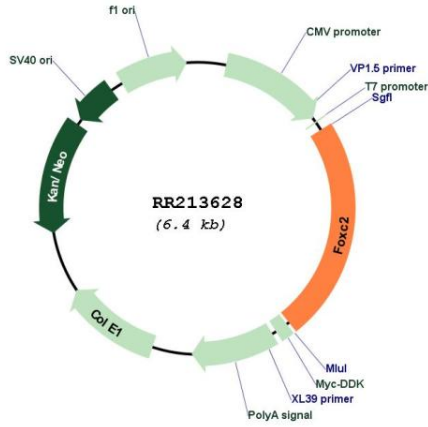
UniProt ID: [Q63246](#)

Cytogenetics: 19q12

MW: 52.9 kDa

Gene Summary: transcription factor, characterized by a distinct forkhead DNA-binding domain, function not yet known, may play a role in the development of mesenchymal tissues [RGD, Feb 2006]

Product images:



Circular map for RR213628