

Product datasheet for RC221992

FOXH1 (NM_003923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXH1 (NM_003923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXH1
Synonyms:	FAST-1; FAST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221992 representing NM_003923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCTGCAGCGGCTCCCGCCTGGGGCCCCAGAGGCAGAGTCGCCCTCCAGCCCCCTAAGAGGA
GGAAGAAGAGGTACCTGCGACATGACAAGCCCCCTACACCTACTGGCCATGATCGCCTGGTGATTCA
GGCCGCTCCCTCCCGCAGACTGAAGCTGGCCAGATCATCCGTCAGGTCCAGGCCGTGTTCCCTTCTTC
AGGAAGACTACGAGGGCTGAAAGACTCCATTGCCACAACCTTCTCCAACCGATGCTCCGCAAGG
TGCCCAAGGACCTGCAAAGCCCCAGGCCAAGGGCAACTTCTGGGCGGTGACGTGAGCCTGATCCAGC
TGAGGCGCTCCGCTGCAGAACACCCGCCCTGTGCCGGCGCTGGCAGAACGGAGGTGCGCGTGAGCCTTC
GCCAAGGACCTGGGCCCTACGTGCTGCACGGCCGCCATACCGCCGCCAGTCCCCGCCACACCCCA
GTGAGGGCTTCAGCATCAAGTCCCTGCTAGGAGGGTCCGGGGAGGGGGCACCCCTGGCCGGGGCTAGCTCC
ACAGAGCAGCCCAGTTCTTGCAGGCACAGGGAACAGTGGGGAGGAGGGCGGTGCCACCCACCCCTTCCC
TCTTCTGAGAGGCCTCTGTGGCCCTCTGCCCCCTTCTGGCCCCACGAGAGTGGAGGGGGAGACTGTGC
AGGGGGGAGCCATCGGGCCCTCAACCCTCTCCCCAGAGCCTAGGGCCTGGCCTCTCCACTACTGCAGGG
CACCGCAGTTCTGGGGACGGTCCAGCGGGGGACACAGGGCCTCCCTCTGGGGGACGTGCCACCTCC
TACTTGCTATCTACACTCCCAATGTGGTAATGCCCTTGGCACCACCCACCTCTGTCCCCAGTGTC
CGTCAACCAGCCCTGCCTACTGGGGGTGGCCCTGAAACCCGAGGGCCCCAGGGCTGCTTGCGATCT
AGACGCCCTCTTCCAAGGGGTGCCACCCAAACAAAGCATCTACGACGTTTGGGTAGCCACCCCTCGGGAC
CTGGCGCCCTGGCCAGGCTGGCTGCTCCTGGTGCAGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221992 representing NM_003923
Red=Cloning site Green=Tags(s)

MGPCSGSRLGPPEAESPSQPPKRRKKRYLRHDKPPYTYLAMIALVIQAAPSRRLKLAQIIIRQVQAVFPFF
 REDYEGWKDSIRHNLSSNRCFRKVPKDPQAKGNFVAVDVSLIPAEALRLQNTALCRRWQNGGARGAF
 AKDLGPYVLHGRPYRPPSPPPPPSEGFSEIKSLLGGSEGAPWGLAPQSSPVPAGTNGSGEEAVPTPLP
 SSERPLWPLCPLPGPTRVEGETVQGGAI GPSTLSPEPRAWPLHLLQGTAVPGGRSSGGHRASLWGQLPTS
 YLPIYTPNVVMP LAPPPTS CPQCPSTSPAYWGVAPETRGP PGLLCDL DALFQGVPPNKSIYDVVWVSHPRD
 LAAPGPGWLLSWCSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6159_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003923

ORF Size: 1095 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_003923.3](#)

RefSeq Size: 1793 bp

RefSeq ORF: 1098 bp

Locus ID: 8928

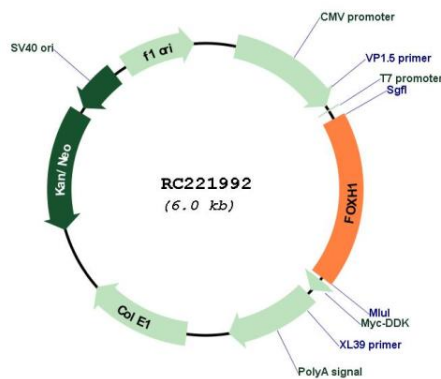
UniProt ID: [O75593](#)

Cytogenetics: 8q24.3

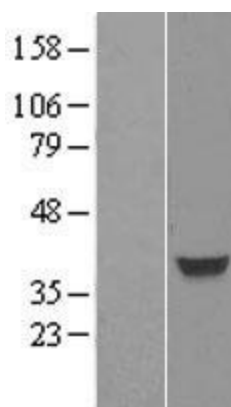
MW: 39.1 kDa

Gene Summary: FOXH1 encodes a human homolog of Xenopus forkhead activin signal transducer-1. FOXH1 protein binds SMAD2 and activates an activin response element via binding the DNA motif TGT(G/T)(T/G)ATT. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221992



Western blot validation of overexpression lysate (Cat# [LY401291]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221992 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).