FOXA3 cDNA Clone – Forkhead Box A3 (Human)

PRODUCT OVERVIEW

Product Name	FOXA3, cDNA Clone
Full Product Name	FOXA3 cDNA Clone
Product Gene Name	FOXA3 cdna clone
Sequence	atgctgggct cagtgaagat ggaggcccat gacctggccg agtggagcta ctacccggag gcgggcgagg tctactcgcc ggtgacccca gtgcccacca tggccccct caactcctac atgaccctga atcctctaag ctctccctat ccccctgggg ggctccctgc ctccccactg ccctcaggac ccctggcacc cccagcacct gcagcccccc tggggcccac tttcccaggc ctgggtgtca gcggtggcag cagcagctcc gggtacgggg ccccgggtcc tgggctggtg cacgggaagg agatgccgaa ggggtatcgg cggcccctgg cacacgccaa gccaccgtat tcctatatct cactcatcac catggccatc cagcaggcgc cgggcaagat gctgaccttg agtgaaatct accagtggat catggacctc ttcccttact accgggagaa tcagcagcgc tggcagaact ccattcgcca ctcgctgtct ttcaacgact gcttcgtcaa ggtggcgcgt tccccagaca agcctggcaa gggctcctac tgggccctac accccagctc agggaacatg tttgagaatg gctgctacct gcgccgccag aaacgcttca agctggagga gaaggtgaaa aaaggggcga gcggggctgc caccaccacc aggaacggga cagggtctgc tgcctcgacc accacccccg cggccacagt cacctccccg ccccagcccc cgcctccagc ccctgagcct gaggcccagg gcggggaaga tgtgggggct ctggactgtg gctcacccgc ttcctccaca ccctatttca ctggcctgga gctcccaggg gagctgaagc tggacgcgcc ctacaacttc aaccaccctt tctccatcaa caacctaatg tcagaacaga caccagcacc tcccaaactg gacgtggggt ttgggggcta cggggctgaa ggtggggagc ctggagtcta ctaccagggc ctctattccc gctctttgct taatgcatcc tag
Molecular Weight	37,140 Da
OMIM	602295
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FOXA3 cdna clone	MBS1278993 is a cDNA clone targeting FOXA3.
Other Notes	Small volumes of FOXA3 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXA3. It may not necessarily be applicable to this product.

NCBI GI #	16359111
NCBI GeneID	3171
NCBI Accession #	BC016024
UniProt Secondary Accession #	Q53F16; Q9UMW9; A9LYI5
UniProt Related Accession #	P55318
NCBI Official Full Name	Homo sapiens forkhead box A3, mRNA
NCBI Official Synonym Full Names	forkhead box A3
NCBI Official Symbol	FOXA3
NCBI Official Synonym Symbols	FKHH3; HNF3G; TCF3G
UniProt Protein Name	Hepatocyte nuclear factor 3-gamma

UniProt Synonym Protein Names	Fork head-related protein FKH H3; Forkhead box protein A3; Transcription factor 3G; TCF-3G
Protein Family	Hepatocyte nuclear factor
UniProt Gene Name	FOXA3
UniProt Synonym Gene Names	HNF3G; TCF3G; HNF-3-gamma; HNF-3G; TCF-3G
UniProt Entry Name	FOXA3_HUMAN
NCBI Protein Information	hepatocyte nuclear factor 3-gamma
NCBI Summary for FOXA3	This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific transcripts such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. The crystal structure of a similar protein in rat has been resolved. [provided by RefSeq, Jul 2008]
UniProt Comments for FOXA3	FOXA3: Transcription factor that is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Originally described as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis; binds to and activates transcription from the G6PC promoter. Binds to the CYP3A4 promoter and activates its transcription in cooperation with CEBPA. Binds to the CYP3A7 promoter together with members of the CTF/NF-I family. Involved in regulation of neuronal-specific transcription. May be involved in regulation of spermatogenesis. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 19q13.32 Molecular Function: transcription factor activity Biological Process: cell glucose homeostasis; positive regulation of transcription from RNA polymerase II promoter
Research Articles on FOXA3	**1.** Our study identified novel FOXA3 variants and mutations, assessed the adipogenic capacity of two novel missense alterations in vitro and demonstrated for the first time the associations between FOXA3 SNP rs28666870 with metabolic phenotypes in humans.
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