OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG211408

FOXA2 (NM_153675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXA2 (NM_153675) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXA2
Synonyms:	HNF-3-beta; HNF3B; TCF3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG211408 representing NM_153675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGGAAGGGCACGAGCCGTCCGACTGGAGCAGCT
ACTATGCAGAGCCCGAGGGCTACTCCTCCGTGAGCAACATGAACGCCGGCCTGGGGATGAACGGCATGAA
CACGTACATGAGCATGTCGGCGGCCGCCATGGGCAGCGGCTCGGGCAACATGAGCGCGGGCTCCATGAAC
ATGTCGTCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCGGCGCGGGCGCCATGG
CGGGCATGGGCGGCTCGGCCGGGGCGGCTGGCGTGGCGGGCATGGGGCCGCACTTGAGTCCCAGCCTGAG
CCCGCTCGGGGGGCAGGCGGCCGGGGCCATGGGCGGCCTGGCCCCCTACGCCAACATGAACTCCATGAGC
CCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAAGATGCTGAC
GCTGAGCGAGATCTACCAGTGGATCATGGACCTCTTCCCCTTCTACCGGCAGAACCAGCAGCGCTGGCAG
AACTCCATCCGCCACTCGCTCTCCTTCAACGACTGTTTCCTGAAGGTGCCCCGCTCGCCCGACAAGCCCG
GCAAGGGCTCCTTCTGGACCCTGCACCCTGACTCGGGCAACATGTTCGAGAACGGCTGCTACCTGCGCCG
CCAGAAGCGCTTCAAGTGCGAGAAGCAGCTGGCGCTGAAGGAGGCCGCAGGCGCCGCCGGCAGCGGCAAG
AAGGCGGCCGCCGGGGCCCAGGCCTCACAGGCTCAACTCGGGGAGGCCGCCGGGCCGGCCTCCGAGACTC
CGGCGGGCACCGAGTCGCCTCACTCGAGCGCCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCCTGGGAGA
GCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCCCAGAGCCGGCGCCCTCTCCCGGGCAGCAGCAGCAG
GCCGCGGCCCACCTGCTGGGCCCGCCCCACCACCCGGGCCTGCCGCCTGAGGCCCACCTGAAGCCGGAAC
ACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGTCCTCGGAGCAGCAGCACCACCACAG
CCACCACCACCACCAGCCCCACAAAATGGACCTCAAGGCCTACGAACAGGTGATGCACTACCCCGGCTAC
GGTTCCCCCATGCCTGGCAGCTTGGCCATGGGCCCGGTCACGAACAAAACGGGCCTGGACGCCTCGCCCC
TGGCCGCAGATACCTCCTACTACCAGGGGGTGTACTCCCGGCCCATTATGAACTCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

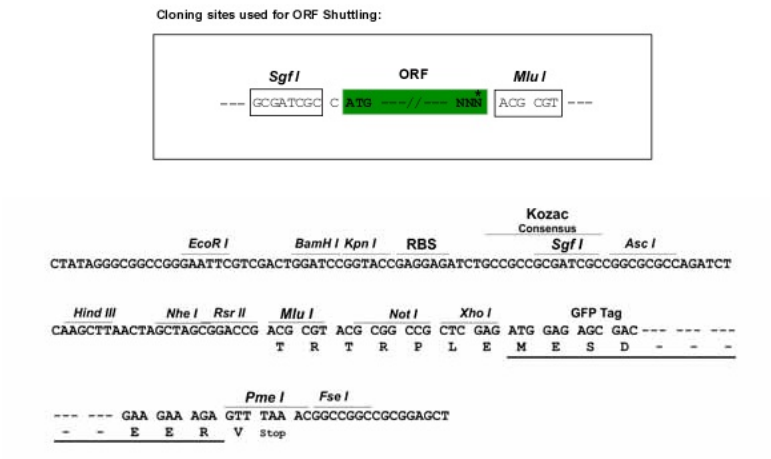
>RG211408 representing NM_153675
Red=Cloning site Green=Tags(s)

MHSASSMLGAVKMEGHEPSDWSSYYAEPEGYSSVSNMNAGLGMNGMNTYMSMSAAAMGSGSGNMSAGSMN
MSSYVGAGMSPSLAGMSPGAGAMAGMGGSAGAAGVAGMGPHLSPSLSPLGGQAAGAMGGLAPYANMNSMS
PMYGQAGLSRARDPKTYRRSYTHAKPPYSYISLITMAIQQSPNKMLTLSEIYQWIMDLFPFYRQNQQRWQ
NSIRHSLSFNDCFLKVPRSPDKPGKGSFWTLHPDSGNMFENGCYLRRQKRFKCEKQLALKEAAGAAGSGK
KAAAGAQASQAQLGEAAGPASETPAGTESPHSSASPCQEHKRGGLGELKGTPAAALSPPEPAPSPGQQQQ
AAAHLLGPPHHPGLPPEAHLKPEHHYAFNHPFSINNLMSSEQQHHHSHHHHQPHKMDLKAYEQVMHYPGY
GSPMPGSLAMGPVTNKTGLDASPLAADTSYYQGVYSRPIMNSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



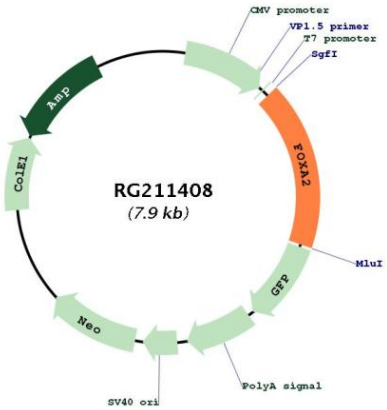
ACCN:	NM_153675
ORF Size:	1389 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_153675.1, NP_710141.1
RefSeq Size:	2230 bp
RefSeq ORF:	1374 bp
Locus ID:	3170
UniProt ID:	Q9Y261
Cytogenetics:	20p11.21

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Gene Summary: This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes 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. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG211408