

## Product datasheet for **RG218102**

### FOXI1 (NM\_012188) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXI1 (NM_012188) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXI1
Synonyms:	FKH10; FKHL10; FREAC-6; FREAC6; HFH-3; HFH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218102 representing NM_012188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTCCTTCGACCTGCCGGCGCCCTCCCCACCTCGCTGCAGCCCCAGTTCCCAGCATCGGCCAGG  
AGCCCCCGAGATGAACCTCTACTATGAGAAGTCTTCCACCCACAGGGCGTGCCAGCCCTCAGCGGCC  
CTCCTTCGAGGGGGCGGCGAGTATGGGGCCACCCCCAACCCCTACCTCTGGTTCAACGGGCCACCATG  
ACCCCGCCACCCTACCTGCCGGCCCCAACGCCAGCCCCCTCCTGCCCCAGGCCATGGAGTGCAGAGGC  
CGCTGCTGCCAGCGTGTGGGGCTTGGGGGAGCGACCTGGGCTGGCTGCCATCCCCTCGCAGGAGGA  
GCTGATGAAGCTGGTGCAGCCACCTATTCCTACTCGGCTCTCATCGCCATGGCCATCCACGGGGCACCC  
GACAAGCGCCTCACTCTCAGCCAGATCTACCAGTACGTGGCCGACAACCTCCCCTTCTACAACAAGAGCA  
AGGCCGGCTGGCAGAAGTCCATCCGCCACAACCTGTGCTCAACGACTGCTTCAAGAAGGTGCCCGCGCA  
CGAGGACGACCCGGGCAAGGGAATTAAGTGGACCTGGACCCCAACTGTGAGAAAATGTTTCGACAATGGA  
AATTTCCGAGGAAAAGGAGAGAAAATCAGATGTTTCTCTAGCACAGCCTCCTTGGCCTTAGAGAAGA  
CAGAGAGCAGTCTCCCGTGGACAGCCCCAAGACCACGGAGCCTCAGGACATCTTGGATGGAGCCTCACC  
AGGGGGCACACCAGCTCCCCAGAGAAGCGGCCCTCCCCTCCCCATCAGGCGCCCTTGCCTAACAGC  
TTCCTTTCTCTATGACAGCCTATGTGAGCGGGGGAGCCCCAGGCCACCCCTTGGTACACCCAGGAC  
TGAGCCCTGAGCCAGTGACAAGACGGGGCAGAACTCACTGACCTTCAACTCCTTCTCCCGCTCACCAA  
CCTCAGCAACCACAGCGTGGGGTGTGAGTGGGCAACCCCATGCCACCAACATGCTCAGCTACGGAGGA  
TCTGTGCTCAGCCAATTCAGCCCTCACTTCTACAACAGTGTCAACACCAGTGGTGTCTCTACCCAGGG  
AGGGCACCGAGGTC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218102 representing NM\_012188  
 Red=Cloning site Green=Tags(s)

MSSF~~DL~~PAPSP~~PR~~CSPQF~~PS~~IGQE~~PP~~EMNLYENFFHPQGV~~PS~~Q~~RP~~SFEGGGEYGATPNPYLW~~FN~~GPTM  
 T~~PP~~PYLPGPNAS~~PF~~LQAYGVQR~~PL~~LSV~~S~~GLGG~~SD~~L~~GW~~LPIPSQEELMKLV~~RP~~PYSYSALIAMAIHGAP  
 DKRLT~~LS~~QIYQYVADN~~FP~~FY~~NK~~SKAGWQNSIRHNL~~SL~~NDC~~FK~~KV~~PR~~DEDDPGKGN~~Y~~W~~TL~~DPNCEK~~MF~~DNG  
 NFR~~RR~~K~~RR~~K~~SD~~V~~SS~~TASL~~AL~~EKTE~~SS~~LPV~~DS~~PKTTEPQDILDGAS~~PG~~GTSSPEK~~RP~~S~~PPP~~S~~GAP~~CLNS  
 FLSSMTAYVSGGSPTSHPLVTPGLSPEPSDKTGQNSLTFNSFSPLTNLSNHSGGGDWANPMP~~TN~~MLSYGG  
 SVLSQFSPHFYNSVNTSGVLYPREGTEV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012188

**ORF Size:** 1134 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\\_012188.3](#), [NP\\_036320.2](#)

**RefSeq Size:** 2294 bp

**RefSeq ORF:** 1137 bp

**Locus ID:** 2299

**UniProt ID:** [Q12951](#)

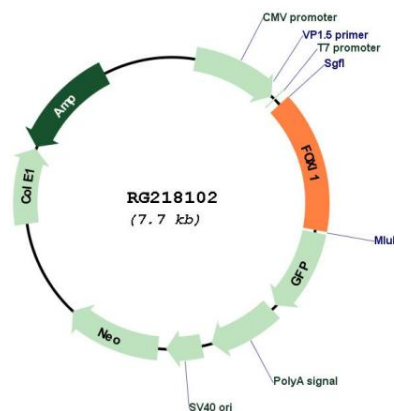
**Cytogenetics:** 5q35.1

**Domains:** FH

**Protein Families:** Transcription Factors

**Gene Summary:** This gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. This gene may play an important role in the development of the cochlea and vestibulum, as well as in embryogenesis. The encoded protein has been found to be required for the transcription of four subunits of a proton pump found in the inner ear, the kidney, and the epididymis. Mutations in this gene have been associated with deafness, autosomal recessive 4. [provided by RefSeq, Jan 2017]

## Product images:



Circular map for RG218102