

Product datasheet for **RG201649**

Homeo box C10 (HOXC10) (NM_017409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Homeo box C10 (HOXC10) (NM_017409) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Homeo box C10
Synonyms:	HOX3I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201649 representing NM_017409 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATGCCCTCGCAATGTAACCTCGAAGTCTGACGCGGAGCCCTTGGCTGCGCCCGCGGAGGAGAGC
GCTATAGCCGGAGCGCAGGCATGTATATGCAGTCTGGGAGTGACTTCAATTGCGGGGTGATGAGGGGCTG
CGGGCTCGCGCCCTCGCTCTCAAGAGGGACGAGGGCAGCAGCCCGAGCCTCGCCCTCAACACCTATCCG
TCCTACCTCTCGCAGCTGGACTCCTGGGCGACCCAAAGCCGCCTATCGCCTGGAACAACCTGTTGGCA
GGCCGCTGTCCTCTGCTCCTACCCACCTAGTGTCAAGGAGGAGAATGTCTGCTGCATGTACAGCGCAGA
GAAGCGGGCGAAAAGTGCCCGGAGGCAGCTCTACTCCACCCCTTGCCGGAGTCTGCCTTGGGGAG
CACGAGGTACCCGTGCCAGCTACTACCGCGCCAGCCCGAGCTACTCCGCGCTGGACAAGACGCCCACT
GTTCTGGGGCAAACGACTTCGAAGCCCTTTCGAGCAGCGGGCCAGTCTCAACCCGCGCGCCGAACATCT
GGAATCGCCTCAGCTGGGGGGCAAAGTGAGTTCCCTGAGACCCCAAGTCCGACAGCCAGACCCCAAGC
CCCAATGAAATCAAGACGGAGCAGAGCCTGGCGGGCCCTAAAGGGAGCCCTCGGAGAGCGAAAAGGAGA
GGGCCAAAGCTGCCGACTCCAGCCAGACACCTCGGATAACGAAGCGAAAGAGGAGATAAAGGCAGAAAA
CACCACAGGAAATTGGCTGACAGCAAAGAGCGGAAGGAAGAAGAGGTGCCCTATACTAAACACCAGACG
CTGGAATTGGAGAAAGAATTTCTGTTCAATATGTATTTGACGCGAGAGCGCCGCTGGAGATTAGCAAGA
CCATTAACTTACAGACAGACAAGTCAAAATCTGGTTTCAAATCGCAGAATGAACTCAAGAAAATGAA
CCGAGAGAATCGGATCCGGGAAGTACCTCCAATTTTAATTTACCC

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201649 representing NM_017409
Red=Cloning site Green=Tags(s)

MTCPRNVTPNSYAEPLAAPGGGERYSRSAGMYMQSGSDFNCGVMRGCLAPSLSKRDEGSSPSLALNTYP
SYLSQLDSWGDPAAYRLEQPVGRPLSSCSYPPSVKEENVCCMYSAEKRAKSGPEAALYSHPLPESCLGE
HEVPVPSYYRASPSYSALDKTPHCSGANDFEAPFEQASLNPRAEHLESPQLGGKVSFPETPKSDSQTPS
PNEIKTEQSLAGPKGSPSESEKERAKAADSSPDTSDNEAKEEIKAEENTTGNWLTAKSGRKKRCPYTKHQT
LELEKEFLFNMYLTRERRLEISKITINLTDRQVKIWFQNRMRMLKKMNRENRIRELTSNFNFT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017409

ORF Size: 1026 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017409.4](#)

RefSeq Size: 2009 bp

RefSeq ORF: 1029 bp

Locus ID: 3226

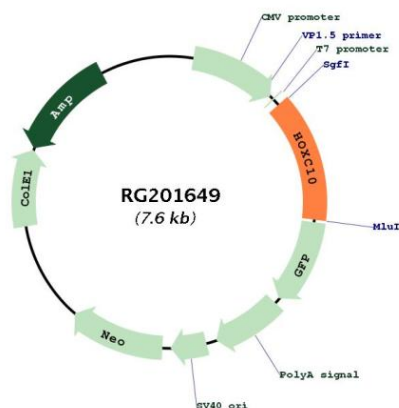
UniProt ID: [Q9NYD6](#)

Cytogenetics: 12q13.13

Protein Families: Transcription Factors

Gene Summary: This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXC genes located in a cluster on chromosome 12. The protein level is controlled during cell differentiation and proliferation, which may indicate this protein has a role in origin activation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201649