

Product datasheet for **RG217226**

HOXC5 (NM_018953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC5 (NM_018953) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXC5
Synonyms:	CP11; HOX3; HOX3D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217226 representing NM_018953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCTACGTAGCCAATTCATTCTATAAGCAGAGCCCCAATATCCCTGCCTATAACATGCAAACCTT
GTGGAACTATGGATCGGCCTCAGAGGTGCAGGCATCCAGGTACTGCTACGGCGGATTGGACTTAAGCAT
CACTTTCCACCCTGCGCCTTCCAATCTCTCCACGGGGTAGACATGGCTGCCAACCCCGGGCTCAC
CCCGACCGCCCGCTGCAGCGCCGCGCCGCTCCGGGACACGCTCCGGGCAGAGACGAAGCGGCTCCTC
TGAACCCCGGGATGTACAGTCAGAAGCGGCTCGCCCGGCTGGAGGAGCGAGCTAAGAGCAGTGGGA
GATCAAAGAGGAGCAGGCGCAGACAGGGCAGCCCGCCGGACTGAGCCAGCCACCGGCCCGCCACAGATT
TACCCGTGGATGACCAAACCTGCACATGAGCCACGAGACGGACGGCAAGCGGTCCCGAACAGTTACACGC
GCTACCAGACTCTGGAACCTCGAGAAAGAATTCACCTTTAACCGCTACCTCACTCGCCGAGGCGCATAGA
GATCGCCAACAACCTTGTGTCTCAATGAGAGACAGATCAAGATCTGGTTCCAGAACCAGGATGAAGTGG
AAGAAAGATCCAAAATGAAAAGCAAAGAGGCTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG217226 representing NM_018953
 Red=Cloning site Green=Tags(s)

MSSYVANSFYKQSPNIPAYNMQTCGNYGSASEVQASRYCYGGLDLSITFPPPAPSNLSHGVDMAANPRAH
 PDRPACSAAAPGHAPGRDEAAPLNPGMYSQKAARPALEERAKSSGEIKEEQATGQPAGLSQPPAPPQI
 YPWMTKLHMSHETDGKRSRTSYTRYQTLELEKEFHFNRYLTRRRRIEIANNLCLNERQIKIWFQNRMRMKW
 KKDSKMKKSKEAL

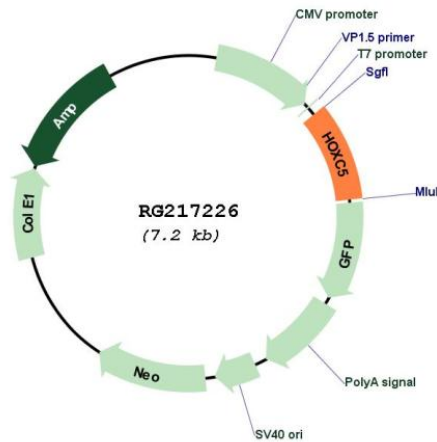
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_018953

ORF Size: 666 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:	<ol style="list-style-type: none">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_018953.3 , NP_061826.1
RefSeq Size:	1613 bp
RefSeq ORF:	669 bp
Locus ID:	3222
UniProt ID:	Q00444
Cytogenetics:	12q13.13
Domains:	homeobox
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, HOXC5, is one of several homeobox HOXC genes located in a cluster on chromosome 12. Three genes, HOXC5, HOXC4 and HOXC6, share a 5' non-coding exon. Transcripts may include the shared exon spliced to the gene-specific exons, or they may include only the gene-specific exons. Two alternatively spliced variants have been described for HOXC5. The transcript variant which includes the shared exon apparently doesn't encode a protein. The protein-coding transcript variant contains gene-specific exons only. [provided by RefSeq, Jul 2008]