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Product datasheet for RG210306

HOXC13 (NM_017410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC13 (NM_017410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXC13
Synonyms:	ECTD9; HOX3; HOX3G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG210306 representing NM_017410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGACTTCGCTGCTCCTGCATCCACGCTGGCCGGAGAGCCTTATGTACGTCTATGAGGACAGCGCGG
CGGAGAGCGGCATCGGCGGCGGCGGCGGAGGAGGAGGCGGCGGCACGGGCGGAGCGGGGGGTGGCTGCAG
CGGAGCGAGCCCCGGCAAAGCCCCGAGCATGGATGGTCTGGGCAGCAGCTGCCCGGCCAGCCACTGCCGC
GACCTGCTTCCGCACCCCGTGCTGGGCCGCCCGCCGGCTCCCCTGGGCGCCCCTCAGGGCGCCGTCTATA
CGGACATCCCGGCCCCGGAGGCGGCGCGCCAGTGTGCCCCGCCGCCCGCACCCCCCACCTCGTCCAGCGC
CACCCTGGGCTACGGCTACCCCTTCGGGGGCAGCTACTACGGCTGCCGCCTGTCGCACAACGTGAACCTG
CAGCAGAAGCCTTGCGCCTACCACCCGGGCGATAAATACCCGGAGCCGTCGGGCGCCCTGCCCGGTGACG
ACCTGTCCTCTAGGGCCAAGGAGTTCGCCTTCTACCCCAGCTTCGCCAGCTCCTACCAGGCGATGCCCGG
CTACCTGGACGTGTCGGTGGTGCCCGGGATCAGCGGGCACCCGGAGCCGCGTCACGACGCCCTCATCCCC
GTCGAAGGCTACCAGCACTGGGCTCTCTCCAATGGCTGGGACAGTCAGGTGTACTGCTCCAAGGAGCAGT
CGCAGTCCGCCCACCTCTGGAAGTCTCCCTTCCCAGACGTGGTTCCCCTGCAGCCCGAGGTGAGCAGCTA
CCGGCGCGGGCGCAAGAAACGCGTGCCCTACACTAAGGTGCAGCTGAAGGAGCTAGAGAAGGAATACGCG
GCTAGCAAGTTCATCACCAAAGAGAAGCGCCGGCGCATCTCCGCCACCACGAACCTCTCTGAGCGCCAGG
TAACCATCTGGTTCCAGAACCGGCGGGTCAAAGAGAAGAAGGTGGTCAGCAAATCGAAAGCGCCTCATCT
CCACTCCACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

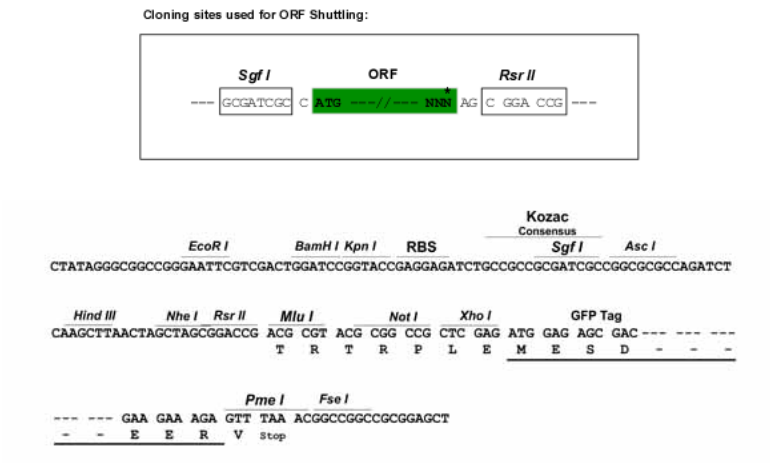
>RG210306 representing NM_017410
Red=Cloning site Green=Tags(s)

MTTSLLLHPRWPESLMYVYEDSAAESGIGGGGGGGGGGTGGAGGGCSGASPGKAPSMDGLGSSCPASHCR
DLLPHPVLGRPPAPLGAPQGAVYTDIPAPEAARQCAPPPAPPTSSSATLGYGYPFGGSYYGCRLSHNVNL
QQKPCAYHPGDKYPEPSGALPGDDLSSRAKEFAFYPSFASSYQAMPGYLDVSVVPGISGHPEPRHDALIP
VEGYQHWALSNGWDSQVYCSKEQSQSAHLWKSPFPDVVPLQPEVSSYRRGRKKRVPYTKVQLKELEKEYA
ASKFITKEKRRRISATTNLSERQVTIWFQNRRVKEKKVVSKSKAPHLHST

SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_017410

ORF Size: 990 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_017410.3

RefSeq Size: 2435 bp

RefSeq ORF: 993 bp

Locus ID: 3229

UniProt ID: P31276

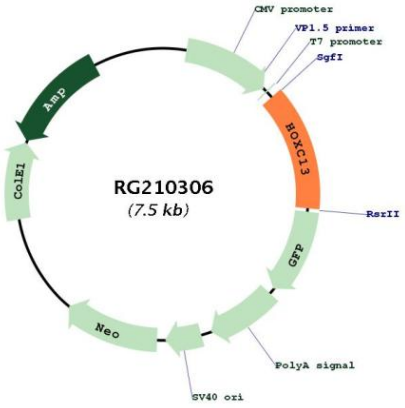
Cytogenetics: 12q13.13

Domains: homeobox

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, 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 product of this gene may play a role in the development of hair, nail, and filiform papilla. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210306