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Product datasheet for RG209698

HOXA13 (NM_000522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA13 (NM_000522) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXA13
Synonyms:	HOX1; HOX1J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG209698 representing NM_000522
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGCCTCCGTGCTCCTCCACCCCCGCTGGATCGAGCCCACCGTCATGTTTCTCTACGACAACGGCG
GCGGCCTGGTGGCCGACGAGCTCAACAAGAACATGGAAGGGGCGGCGGCGGCTGCAGCAGCGGCTGCAGC
GGCGGCGGCTGCCGGGGCCGGGGGCGGGGGCTTCCCCCACCCGGCGGCTGCGGCGGCAGGGGGCAACTTC
TCGGTGGCGGCGGCGGCCGCGGCTGCGGCGGCGGCCGCGGCCAACCAGTGCCGCAACCTGATGGCGCACC
CGGCGCCCTTGGCGCCAGGAGCCGCGTCCGCCTACAGCAGCGCCCCCGGGGAGGCGCCCCCGTCGGCTGC
CGCCGCTGCTGCCGCGGCTGCCGCTGCAGCCGCCGCCGCCGCCGCCGCGTCGTCCTCGGGAGGTCCCGGC
CCGGCGGGCCCGGCGGGCGCAGAGGCCGCCAAGCAATGCAGCCCCTGCTCGGCAGCGGCGCAGAGCTCGT
CGGGGCCCGCGGCGCTGCCCTATGGCTACTTCGGCAGCGGCTACTACCCGTGCGCCCGCATGGGCCCGCA
CCCCAACGCCATCAAGTCGTGCGCGCAGCCCGCCTCGGCCGCCGCCGCCGCCGCCGCCTTCGCGGACAAGTAC
ATGGATACCGCCGGCCCAGCTGCCGAGGAGTTCAGCTCCCGCGCTAAGGAGTTCGCCTTCTACCACCAGG
GCTACGCAGCCGGGCCTTACCACCACCATCAGCCCATGCCTGGCTACCTGGATATGCCAGTGGTGCCGGG
CCTCGGGGGCCCCGGCGAGTCGCGCCACGAACCCTTGGGTCTTCCCATGGAAAGCTACCAGCCCTGGGCG
CTGCCCAACGGCTGGAACGGCCAAATGTACTGCCCCAAAGAGCAGGCGCAGCCTCCCCACCTCTGGAAGT
CCACTCTGCCCGACGTGGTCTCCCATCCCTCGGATGCCAGCTCCTATAGGAGGGGGAGAAAGAAGCGCGT
GCCTTATACCAAGGTGCAATTAAAAGAACTTGAACGGGAATACGCCACGAATAAATTCATTACTAAGGAC
AAACGGAGGCGGATATCAGCCACGACGAATCTCTCTGAGCGGCAGGTCACAATCTGGTTCCAGAACAGGA
GGGTTAAAGAGAAAAAAGTCATCAACAAACTGAAAACCACTAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

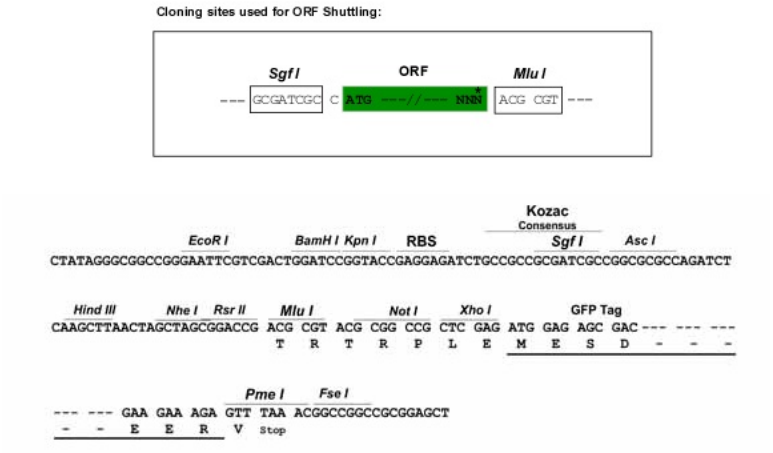
>RG209698 representing NM_000522
Red=Cloning site Green=Tags(s)

MTASVLLHPRWIEPTVMFLYDNGGGLVADELNKNMEGAAAAAAAAAAAAAAAGAGGGGFPHPAAAAAGGNF
SVAAAAAAAAAAAANQCRNLMAHPAPLAPGAASAYSSAPGEAPPSAAAAAAAAAAAAAAAAAAASSSGGPG
PAGPAGAEAAKQCSPCSAAAQSSSGPAALPYGYFGSGYYPCARMGPHPNAIKSCAQPASAAAAAAFADKY
MDTAGPAAEEFSSRAKEFAFYHQGYAAGPYHHHQPMPGYLDMPVVPGLGGPGESRHEPLGLPMESYQPWA
LPNGWNGQMYCPKEQAQPPHLWKSTLPDVVSHPSDASSYRRGRKKRVPYTKVQLKELEREYATNKFITKD
KRRRISATTNLSERQVTIWFQNRRVKEKKVINKLKTTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000522

ORF Size: 1164 bp

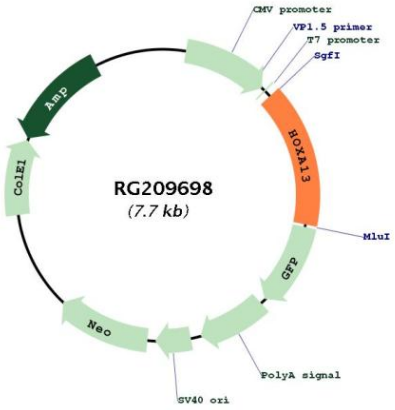
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_000522.5
RefSeq Size:	2514 bp
RefSeq ORF:	1167 bp
Locus ID:	3209
UniProt ID:	P31271
Cytogenetics:	7p15.2
Domains:	homeobox
Protein Families:	Transcription Factors
Gene Summary:	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. Expansion of a polyalanine tract in the encoded protein can cause hand-foot-uterus syndrome, also known as hand-foot-genital syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209698