

Product datasheet for **RC222859**

HOPX (NM_032495) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOPX (NM_032495) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HOPX
Synonyms: CAMEO; HOD; HOP; LAGY; NECC1; OB1; SMAP31; TOTO
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222859 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCGGAGACCGCGAGCGGCCCCACAGAGGACCAGGTGAAATCCTGGAGTACAACCTCAACAAGG
 TCGACAAGCACCCGATTCCACCACGCTGTGCCTCATCGCGGCCGAGGCAGGCCTTCCGAGGAGGAGAC
 CCAGAAATGGTTAAGCAGCGCCTGGCAAAGTGGCGCGCTCAGAAGGCCTGCCCTCAGAGTGCAGATCC
 GTCATAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222859 protein sequence
 Red=Cloning site Green=Tags(s)

MSAETASGPTEDQVEILEYFNKVDKHPDSTLLCLIAEAGLSEEETQKWFQRLAKWRRSEGLPSECRS
 VID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_e12.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_032495

ORF Size: 219 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_032495.2](#)

RefSeq Size: 1552 bp

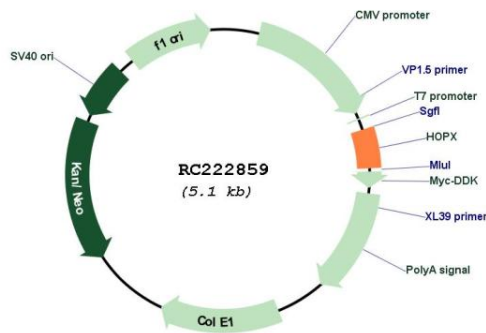
RefSeq ORF: 276 bp

Locus ID: 84525

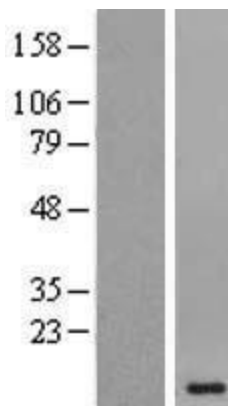
UniProt ID: [Q9BPY8](#)
Cytogenetics: 4q12
Domains: homeobox
Protein Families: Transcription Factors
MW: 8.3 kDa

Gene Summary: The protein encoded by this gene is a homeodomain protein that lacks certain conserved residues required for DNA binding. It was reported that choriocarcinoma cell lines and tissues failed to express this gene, which suggested the possible involvement of this gene in malignant conversion of placental trophoblasts. Studies in mice suggest that this protein may interact with serum response factor (SRF) and modulate SRF-dependent cardiac-specific gene expression and cardiac development. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RC222859



Western blot validation of overexpression lysate (Cat# [LY428902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC222859] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HOPX protein (Cat# [TP322859]). The protein was produced from HEK293T cells transfected with HOPX cDNA clone (Cat# RC222859) using MegaTran 2.0 (Cat# [TT210002]).