

## Product datasheet for **RC227611**

### HOPX (NM\_001145459) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HOPX (NM\_001145459) 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:** >RC227611 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCGGAGACCGCGAGCGGCCCCACAGAGGACCAGGTGAAATCCTGGAGTACAACCTCAACAAGG  
 TCGACAAGCACCCGATTCCACCACGCTGTGCCTCATCGCGGCCGAGGCAGGCCTTCCGAGGAGGAGAC  
 CCAGAAATGGTTAAGCAGCGCCTGGCAAAGTGGCGCGCTCAGAAGGCCTGCCCTCAGAGTGCAGATCC  
 GTCATAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC227611 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAETASGPTEDQVEILEYFNKVDKHPDSTTLCLIAAEAGLSEEETQKWFQRLAKWRRSEGLPSECRS  
 VID

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6430\\_e12.zip](https://cdn.origene.com/chromatograms/mk6430_e12.zip)

**Restriction Sites:** Sgfl-Mlul



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**Cloning Scheme:**


**ACCN:** NM\_001145459

**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\\_001145459.1](#), [NP\\_001138931.1](#)

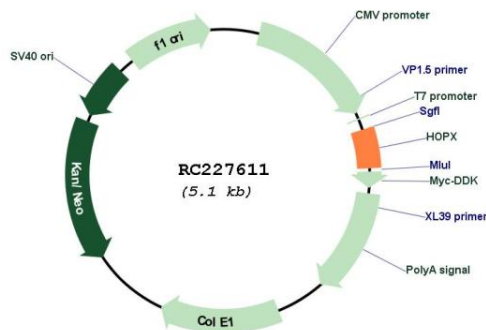
**RefSeq Size:** 1198 bp

**RefSeq ORF:** 222 bp

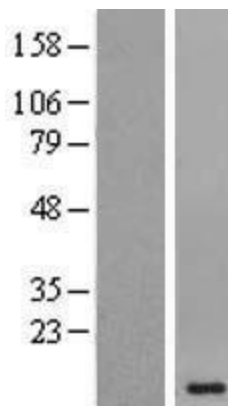
**Locus ID:** 84525

**UniProt ID:** [Q9BPY8](#)  
**Cytogenetics:** 4q12  
**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 RC227611



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 RC227611 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).