

Product datasheet for **MG224244**

Hopx (NM_001159900) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hopx (NM_001159900) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hopx
Synonyms: 1110018K11Rik; 1200015P04Rik; 2300002F06Rik; A1848177; AW490897; Cameo; Hdop; Hod; Hop
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224244 representing NM_001159900
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCGCAGACCGCGAGCGGCCCCACGGAGGACCAGGTGGAGATCCTGGAGTACAACCTCAACAAGG
 TCAACAAGCACCCGACCCACCACGCTGTGCCTCATCGAGCCGAGCGGGTCTCACGGAGGAGCAGAC
 GCAGAAATGGTTTAAGCAGCGCCTGGCAGAGTGGCGGGTCCAGAAGGCTTGCCTTCGGAATGCAGATCT
 GTTACGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224244 representing NM_001159900
 Red=Cloning site Green=Tags(s)

MSAQTASGPTEDQVEILEYFNKVNKHPDPTTLCLIAAEAGL TEEQTQKWFQRLAEWRRSEGLPSECRS
 VTD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

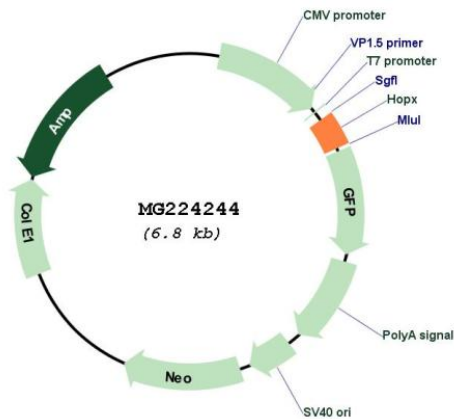


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001159900

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:	<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:	<u>NM_001159900.1</u> , <u>NP_001153372.1</u>
RefSeq Size:	1105 bp
RefSeq ORF:	222 bp
Locus ID:	74318
UniProt ID:	<u>Q8R1H0</u>
Cytogenetics:	5 C3.3
Gene Summary:	Atypical homeodomain protein which does not bind DNA and is required to modulate cardiac growth and development. Acts via its interaction with SRF, thereby modulating the expression of SRF-dependent cardiac-specific genes and cardiac development. Prevents SRF-dependent transcription either by inhibiting SRF binding to DNA or by recruiting histone deacetylase (HDAC) proteins that prevent transcription by SRF. Overexpression causes cardiac hypertrophy (PubMed:12297045, PubMed:12297046). Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and assists in chaperone-mediated protein refolding (By similarity).[UniProtKB/Swiss-Prot Function]