

Product datasheet for **MR224244L4V**

Hopx (NM_001159900) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Hopx (NM_001159900) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Hopx
Synonyms:	1110018K11Rik; 1200015P04Rik; 2300002F06Rik; AI848177; AW490897; Cameo; Hdop; Hod; Hop
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001159900
ORF Size:	222 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224244).
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.
RefSeq:	NM_001159900.1 , NP_001153372.1
RefSeq Size:	1105 bp
RefSeq ORF:	222 bp
Locus ID:	74318
UniProt ID:	Q8R1H0
Cytogenetics:	5 C3.3



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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]