

Product datasheet for **TP500084**

Hopx (NM_001159901) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse HOP homeobox (Hopx), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR200084 protein sequence Red =Cloning site Green =Tags(s)
	MSAQTASGPTEDQVEILEYNFNKVNKHPDPTTLCLIAAEAGLTEEQTQKWFKQRLAEWRRSEGLPSECRS VTD
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	8.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001153373
Locus ID:	74318
UniProt ID:	Q8R1H0
RefSeq Size:	1233
Cytogenetics:	5 C3.3
RefSeq ORF:	222



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Synonyms: 1110018K11Rik; 1200015P04Rik; 2300002F06Rik; AI848177; AW490897; Cameo; Hdop; Hod; Hop

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]