

Product datasheet for **RC209647L4V**

HMBOX1 (NM_024567) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	HMBOX1 (NM_024567) Human Tagged ORF Clone Lentiviral Particle
Symbol:	HMBOX1
Synonyms:	HNF1LA; HOT1; PBHNF; TAH1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_024567
ORF Size:	1260 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209647).
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_024567.2
RefSeq Size:	3233 bp
RefSeq ORF:	1263 bp
Locus ID:	79618
UniProt ID:	Q6NT76
Cytogenetics:	8p21.1-p12
Domains:	homeobox, HNF-1_N
Protein Families:	Transcription Factors



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MW: 47.3 kDa

Gene Summary: Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA (PubMed:23813958, PubMed:23685356). Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation (PubMed:23685356). Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (By similarity). Also plays a role in the alternative lengthening of telomeres (ALT) pathway in telomerase-negative cells where it promotes formation and/or maintenance of ALT-associated promyelocytic leukemia bodies (APBs) (PubMed:23813958). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination (PubMed:23813958). Might also be involved in the DNA damage response at telomeres (PubMed:23813958).[UniProtKB/Swiss-Prot Function]