

## Product datasheet for **RC225209L4V**

### HP1 alpha (CBX5) (NM\_001127322) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | HP1 alpha (CBX5) (NM_001127322) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | HP1 alpha  |
| Synonyms:                 | HEL25; HP1; HP1A   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001127322   |
| ORF Size:                 | 573 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC225209).   |
| 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. <a href="#">More info</a> |
| 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:                   | <a href="#">NM_001127322.1</a> , <a href="#">NP_001120794.1</a>  |
| RefSeq Size:              | 11723 bp   |
| RefSeq ORF:               | 576 bp   |
| Locus ID:                 | 23468  |
| UniProt ID:               | <a href="#">P45973</a>   |
| Cytogenetics:             | 12q13.13   |
| MW:                       | 22.2 kDa   |



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**Gene Summary:**

This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]