

## Product datasheet for **RC208656L4V**

### HDAC5 (NM\_001015053) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | HDAC5 (NM_001015053) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | HDAC5  |
| Synonyms:                 | HD5; NY-CO-9   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001015053   |
| ORF Size:                 | 3369 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC208656).   |
| 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_001015053.1</a>   |
| RefSeq Size:              | 5327 bp  |
| RefSeq ORF:               | 3372 bp  |
| Locus ID:                 | 10014  |
| UniProt ID:               | <a href="#">Q9UQL6</a>   |
| Cytogenetics:             | 17q21.31   |
| Protein Families:         | Druggable Genome, Transcription Factors  |
| MW:                       | 122 kDa  |



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**Gene Summary:**

Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]