

## Product datasheet for **RC205939L3V**

### HLAE (HLA-E) (NM\_005516) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | HLAE (HLA-E) (NM_005516) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | HLAE   |
| Synonyms:                 | HLA-6.2; QA1   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_005516  |
| ORF Size:                 | 1074 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC205939).   |
| 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_005516.4</a> , <a href="#">NP_005507.3</a>  |
| RefSeq Size:              | 2679 bp  |
| RefSeq ORF:               | 1077 bp  |
| Locus ID:                 | 3133   |
| UniProt ID:               | <a href="#">P13747</a>   |
| Cytogenetics:             | 6p22.1   |
| Domains:                  | MHC_I, ig, IGc1  |
| Protein Families:         | Transmembrane  |



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|                          |   |
|--------------------------|---|
| <b>Protein Pathways:</b> | Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis  |
| <b>MW:</b>               | 40.1 kDa  |
| <b>Gene Summary:</b>     | HLA-E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. [provided by RefSeq, Jul 2008] |