

## Product datasheet for **RC205118L2V**

### Osteopontin (SPP1) (NM\_000582) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Osteopontin (SPP1) (NM_000582) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Osteopontin  |
| Synonyms:                 | BNSP; BSP1; ETA-1; OPN   |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_000582  |
| ORF Size:                 | 900 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC205118).   |
| 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_000582.2</a> , <a href="#">NP_000573.1</a>  |
| RefSeq Size:              | 1616 bp  |
| RefSeq ORF:               | 903 bp   |
| Locus ID:                 | 6696   |
| UniProt ID:               | <a href="#">P10451</a>   |
| Cytogenetics:             | 4q22.1   |
| Domains:                  | OSTEO  |
| Protein Families:         | Druggable Genome, Secreted Protein   |



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**Protein Pathways:** ECM-receptor interaction, Focal adhesion, Toll-like receptor signaling pathway

**MW:** 33.8 kDa

**Gene Summary:** The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]