

Product datasheet for **RC205118L4V**

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:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
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. 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_000582.2 , NP_000573.1
RefSeq Size:	1616 bp
RefSeq ORF:	903 bp
Locus ID:	6696
UniProt ID:	P10451
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]