

## Product datasheet for **RC205220L2V**

### DUSP1 (NM\_004417) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	DUSP1 (NM_004417) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DUSP1
Synonyms:	CL100; HVH1; MKP-1; MKP1; PTPN10
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_004417
ORF Size:	1101 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205220).
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_004417.2</a>
RefSeq Size:	2015 bp
RefSeq ORF:	1104 bp
Locus ID:	1843
UniProt ID:	<a href="#">P28562</a>
Cytogenetics:	5q35.1
Domains:	DSPc, RHOD, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase



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**Protein Pathways:** MAPK signaling pathway

**MW:** 39.1 kDa

**Gene Summary:** The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy. [provided by RefSeq, Aug 2017]