

Product datasheet for **RC223889L2V**

PADI2 (NM_007365) Human Tagged ORF Clone Lentiviral Particle

Product data:

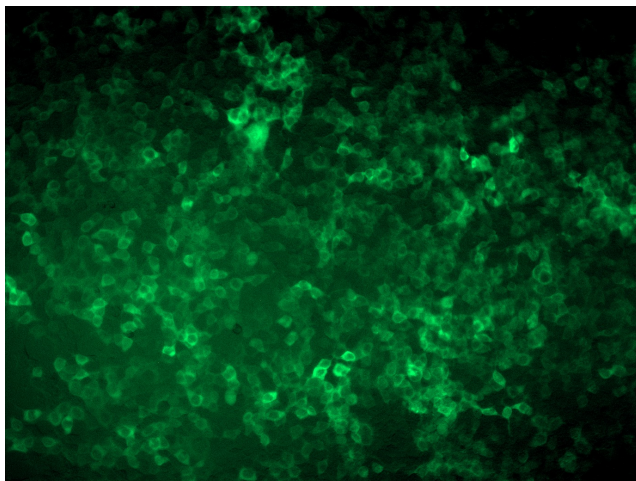
Product Type:	Lentiviral Particles
Product Name:	PADI2 (NM_007365) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PADI2
Synonyms:	PAD-H19; PAD2; PD12
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_007365
ORF Size:	1995 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223889).
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_007365.1
RefSeq Size:	2348 bp
RefSeq ORF:	1998 bp
Locus ID:	11240
UniProt ID:	Q9Y2J8
Cytogenetics:	1p36.13
Domains:	PAD
MW:	75.4 kDa



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Gene Summary:

This gene encodes a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The family members have distinct substrate specificities and tissue-specific expression patterns. The type II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages. This enzyme is thought to play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq, Jul 2008]

Product images:

[RC223889L2] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC223889L2V particle to overexpress human PADI2-mGFP fusion protein.