

Product datasheet for RC214256L2V

OriGene Technologies, Inc.

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Acrosin (ACR) (NM_001097) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Acrosin (ACR) (NM_001097) Human Tagged ORF Clone Lentiviral Particle

Symbol: Acrosin

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_001097 **ORF Size:** 1263 bp

ORF Nucleotide

OTI Disclaimer:

The ORF insert of this clone is exactly the same as(RC214256).

Sequence:

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: <u>NM 001097.1</u>, <u>NP 001088.1</u>

RefSeq Size: 1388 bp
RefSeq ORF: 1266 bp

Locus ID: 49

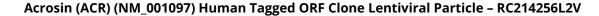
 UniProt ID:
 P10323

 Cytogenetics:
 22q13.33

Protein Families: Druggable Genome, Protease

MW: 45.8 kDa







Gene Summary:

Acrosin is the major proteinase present in the acrosome of mature spermatozoa. It is a typical serine proteinase with trypsin-like specificity. It is stored in the acrosome in its precursor form, proacrosin. The active enzyme functions in the lysis of the zona pellucida, thus facilitating penetration of the sperm through the innermost glycoprotein layers of the ovum. The mRNA for proacrosin is synthesized only in the postmeiotic stages of spermatogenesis. In humans proacrosin first appears in the haploid spermatids. [provided by RefSeq, Jul 2008]