

## Product datasheet for RC206302L4V

## OriGene Technologies, Inc.

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## p35 (CDK5R1) (NM\_003885) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** p35 (CDK5R1) (NM\_003885) Human Tagged ORF Clone Lentiviral Particle

Symbol: p35

**Synonyms:** CDK5P35; CDK5R; NCK5A; p23; p35; p35nck5a

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM\_003885

ORF Size: 921 bp

**ORF Nucleotide** 

The ODE

Sequence:
OTI Disclaimer:

The ORF insert of this clone is exactly the same as(RC206302).

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.

**RefSeg:** NM 003885.2

 RefSeq Size:
 3870 bp

 RefSeq ORF:
 924 bp

 Locus ID:
 8851

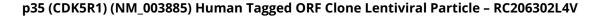
 UniProt ID:
 Q15078

 Cytogenetics:
 17q11.2

**Domains:** CDK5\_activator

**Protein Families:** Druggable Genome







**Protein Pathways:** Alzheimer's disease

MW: 34.1 kDa

**Gene Summary:** The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent

kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease. [provided by RefSeq, Jul

2008]