

## Product datasheet for **RC212252L3V**

### **APAF1 (NM\_001160) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	APAF1 (NM_001160) Human Tagged ORF Clone Lentiviral Particle
Symbol:	APAF1
Synonyms:	APAF-1; CED4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001160
ORF Size:	3582 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212252).
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_001160.2</a>
RefSeq Size:	7042 bp
RefSeq ORF:	3585 bp
Locus ID:	317
UniProt ID:	<a href="#">O14727</a>
Cytogenetics:	12q23.1
Domains:	CARD, WD40, NB-ARC
Protein Families:	Druggable Genome



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**Protein Pathways:** Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Huntington's disease, p53 signaling pathway, Parkinson's disease, Small cell lung cancer

**MW:** 135.8 kDa

**Gene Summary:** This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several copies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. Activated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis. Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]