

## Product datasheet for **RC207544L2V**

### CYBB (NM\_000397) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	CYBB (NM_000397) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CYBB
Synonyms:	AMCBX2; CGD; CGDX; GP91-1; GP91-PHOX; GP91PHOX; IMD34; NOX2; p91-PHOX
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000397
ORF Size:	1710 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207544).
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_000397.2</a>
RefSeq Size:	4353 bp
RefSeq ORF:	1713 bp
Locus ID:	1536
UniProt ID:	<a href="#">P04839</a>
Cytogenetics:	Xp21.1-p11.4
Domains:	Ferric_reduct
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane



[View online »](#)

**Protein Pathways:** Leukocyte transendothelial migration

**MW:** 65.3 kDa

**Gene Summary:** Cytochrome b (-245) is composed of cytochrome b alpha (CYBA) and beta (CYBB) chain. It has been proposed as a primary component of the microbicidal oxidase system of phagocytes. CYBB deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD). In this disorder, there is decreased activity of phagocyte NADPH oxidase; neutrophils are able to phagocytize bacteria but cannot kill them in the phagocytic vacuoles. The cause of the killing defect is an inability to increase the cell's respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole. [provided by RefSeq, Jul 2008]