

## Product datasheet for **RC212390L4V**

### PSMB11 (NM\_001099780) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	PSMB11 (NM_001099780) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PSMB11
Synonyms:	BETA5T
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001099780
ORF Size:	900 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212390).
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_001099780.1</a>
RefSeq Size:	1894 bp
RefSeq ORF:	903 bp
Locus ID:	122706
UniProt ID:	<a href="#">A5LHX3</a>
Cytogenetics:	14q11.2
Protein Pathways:	Proteasome
MW:	32.3 kDa



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**Gene Summary:**

Proteasomes generate peptides that are presented by major histocompatibility complex (MHC) I molecules to other cells of the immune system. Proteolysis is conducted by 20S proteasomes, complexes of 28 subunits arranged as a cylinder in 4 heteroheptameric rings: alpha-1 to -7, beta-1 to -7, beta-1 to -7, and alpha-1 to -7. The catalytic subunits are beta-1 (PSMB6; MIM 600307), beta-2 (PSMB7; MIM 604030), and beta-5 (PSMB5; MIM 600306). Three additional subunits, beta-1i (PSMB9; MIM 177045), beta-2i (PSMB10; MIM 176847), and beta-5i (PSMB8; MIM 177046), are induced by gamma-interferon (IFNG; MIM 147570) and are preferentially incorporated into proteasomes to make immunoproteasomes. PSMB11, or beta-5t, is a catalytic subunit expressed exclusively in cortical thymic epithelial cells (Murata et al., 2007 [PubMed 17540904]).[supplied by OMIM, Mar 2008]