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Product datasheet for RC200663L4

Melanoma gp100 (PMEL) (NM_006928) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melanoma gp100 (PMEL) (NM_006928) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Melanoma gp100
Synonyms:	D12S53E; gp100; ME20; ME20-M; ME20M; P1; P100; PMEL17; SI; SIL; SILV
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200663).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

Sgf I   ORF   *Mlu I*
--- GCG ATC GC C ATG --- // --- NNN* ACG CGT ---

EcoR I   *BamH I*   *RBS*   Kozak Consensus   *Sgf I*   ORF
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- --- ---

Mlu I   *Not I*   *Xho I*   mGFP Tag
--- --- --- --- --- --- NNN* ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- --- ---
                         T   R   T   R   P   L   E   M   S   G   G   - - - -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC
 - -   G   L   R   V

* The last codon before the Stop codon of the ORF.

|	
ACCN:	NM_006928
ORF Size:	1983 bp

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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. 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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_006928.3
RefSeq Size:	2143 bp
RefSeq ORF:	1986 bp
Locus ID:	6490
UniProt ID:	P40967
Cytogenetics:	12q13.2
Protein Families:	Secreted Protein, Transmembrane
MW:	70.1 kDa
Gene Summary:	This gene encodes a melanocyte-specific type I transmembrane glycoprotein. The encoded protein is enriched in melanosomes, which are the melanin-producing organelles in melanocytes, and plays an essential role in the structural organization of premelanosomes. This protein is involved in generating internal matrix fibers that define the transition from Stage I to Stage II melanosomes. This protein undergoes a complex pattern of prosttranslational processing and modification that is essential to the proper functioning of the protein. A secreted form of this protein that is released by proteolytic ectodomain shedding may be used as a melanoma-specific serum marker. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2011]

Product images:
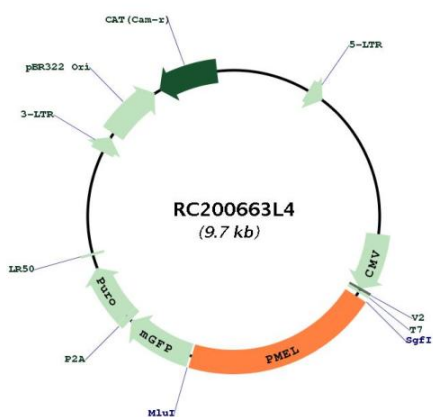
Circular map for RC200663L4
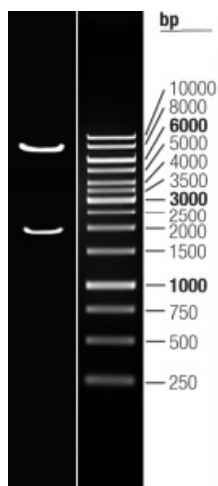
Double digestion of RC200663L4 using SgfI and MluI