

## Product datasheet for **SC331404**

### Melanoma gp100 (PMEL) (NM\_001200054) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Melanoma gp100 (PMEL) (NM_001200054) Human Untagged Clone
Tag:	Tag Free
Symbol:	Melanoma gp100
Synonyms:	D12S53E; gp100; ME20; ME20-M; ME20M; P1; P100; PMEL17; SI; SIL; SILV
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331404 representing NM\_001200054.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGGCT
ACAAAAGTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAGGCAACTCAGAACCAAGCCTGGAACAGG
CAGCTGTATCCAGAGTGGACAGAAGCCAGAGACTTGACTGGAGAGGTGGTCAAGTGTCCCTCAAG
GTCAGTAATGATGGCCCTACACTGATTGGTGCAAATGCCTCCTTCTCTATTGCCTTGAACCTCCCTGGA
AGC AAAAGGTATTGCCAGATGGGCAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTG
TGGGGAGGACAGCCAGTGTATCCCCAGGAACTGACGATGCCTGCATCTTCCCTGATGGTGGACCTTGC
CCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTTTATGTCTGGAAGACCTGGGGCCAATACTGGCAA
GTTCTAGGGGGCCAGTGTCTGGGCTGAGCATTGGGACAGGCAGGGCAATGCTGGGCACACACACCATG
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ACCATTACTGACCAGGTGCCTTCTCCGTGAGCGTGTCCAGTTGCGGGCCTTGATGGAGGGAACAAG
CACTTCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCCAGTGGCTATCTGGCTGAA
GCTGACCTCTCTACACCTGGGACTTTGGAGACAGTAGTGAACCCTGATCTCTCGGGCACTTGTGGTC
ACTCATACTTACCTGGAGCCTGGCCAGTCACTGCCAGGTGGTCTGCAGGCTGCCATTCTCTACC
TCTGTGGCTCCTCCCCAGTTCAGGCACCACAGATGGGCACAGGCCAACTGCAGAGGCCCTAACACC
ACAGCTGGCCAAGTGCCTACTACAGAAGTTGTGGTACTACACCTGGTCAGGCGCCAACCTGCAGAGCCC
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GCAGAGAGCACAGGTATGACACCTGAGAAGGTGCCAGTTTCAGAGGTATGGGTACCACACTGGCAGAG
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GCTGCACAGGTAACAACACTACAGAGTGGGTGGAGACCACAGCTAGAGAGCTACCTATCCCTGAGCCTGAA
GGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATTACAGGTTCCCTGGGCCCTGCTGGATGGT
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AGCCTGGCAGTGGTCAGCACCCAGCTTATCATGCCTGTGCCTGGGATTCTTCTCACAGGTCAAGAAGCA
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CTGCGTCTACCCGCATCTTCTGCTCTTGTCCCATTGGTGAAGAACAGCCCCCTCCTCAGTGGGCAGCAG
GTCTGA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001200054

**Insert Size:** 2007 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001200054.1](#)

**RefSeq Size:** 2181 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 6490

**UniProt ID:** [P40967](#)

**Cytogenetics:** 12q13.2

**Protein Families:** Secreted Protein, Transmembrane

**MW:** 70.9 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 posttranslational 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]  
Transcript Variant: This variant (1) encodes the longest isoform (1, also known as Pmel17-I).