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# Product datasheet for SC122763

## Melanoma gp100 (PMEL) (NM_006928) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Melanoma gp100 (PMEL) (NM_006928) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Melanoma gp100 |
| **Synonyms:** | D12S53E; gp100; ME20; ME20-M; ME20M; P1; P100; PMEL17; SI; SIL; SILV |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>OriGene sequence for NM_006928 edited
GAAGAACACAATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGC
TTTGCTGGCTGTGGGGGCTACAAAAGTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAG
GCAACTCAGAACCAAAGCCTGGAACAGGCAGCTGTATCCAGAGTGGACAGAAGCCCAGAG
ACTTGACTGCTGGAGAGGTGGTCAAGTGTCCCTCAAGGTCAGTAATGATGGGCCTACACT
GATTGGTGCAAATGCCTCCTTCTCTATTGCCTTGAACTTCCCTGGAAGCCAAAAGGTATT
GCCAGATGGGCAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTGTGGGG
AGGACAGCCAGTGTATCCCCAGGAAACTGACGATGCCTGCATCTTCCCTGATGGTGGACC
TTGCCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTTTATGTCTGGAAGACCTGGGG
CCAATACTGGCAAGTTCTAGGGGGCCCAGTGTCTGGGCTGAGCATTGGGACAGGCAGGGC
AATGCTGGGCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGGATCCCGGAGCTA
TGTGCCTCTTGCTCATTCCAGCTCAGCCTTCACCATTACTGACCAGGTGCCTTTCTCCGT
GAGCGTGTCCCAGTTGCGGGCCTTGGATGGAGGGAACAAGCACTTCCTGAGAAATCAGCC
TCTGACCTTTGCCCTCCAGCTCCATGACCCTAGTGGCTATCTGGCTGAAGCTGACCTCTC
CTACACCTGGGACTTTGGAGACAGTAGTGGAACCCTGATCTCTCGGGCACTTGTGGTCAC
TCATACTTACCTGGAGCCTGGCCCAGTCACTGCCCAGGTGGTCCTGCAGGCTGCCATTCC
TCTCACCTCCTGTGGCTCCTCCCCAGTTCCAGGCACCACAGATGGGCACAGGCCAACTGC
AGAGGCCCCTAACACCACAGCTGGCCAAGTGCCTACTACAGAAGTTGTGGGTACTACACC
TGGTCAGGCGCCAACTGCAGAGCCCTCTGGAACCACATCTGTGCAGGTGCCAACCACTGA
AGTCATAAGCACTGCACCTGTGCAGATGCCAACTGCAGAGAGCACAGGTATGACACCTGA
GAAGGTGCCAGTTTCAGAGGTCATGGGTACCACACTGGCAGAGATGTCAACTCCAGAGGC
TACAGGTATGACACCTGCAGAGGTATCAATTGTGGTGCTTTCTGGAACCACAGCTGCACA
GGTAACAACTACAGAGTGGGTGGAGACCACAGCTAGAGAGCTACCTATCCCTGAGCCTGA
AGGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATTACAGGTTCCCTGGGCCCCCT
GCTGGATGGTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGTGTTCT
GTATCGATATGGTTCCTTTTCCGTCACCCTGGACATTGTCCAGGGTATTGAAAGTGCCGA
GATCCTGCAGGCTGTGCCGTCCGGTGAGGGGGATGCATTTGAGCTGACTGTGTCCTGCCA
AGGCGGGCTGCCCAAGGAAGCCTGCATGGAGATCTCATCGCCAGGGTGCCAGCCCCCTGC
CCAGCGGCTGTGCCAGCCTGTGCTACCCAGCCCAGCCTGCCAGCTGGTTCTGCACCAGAT
ACTGAAGGGTGGCTCGGGGACATACTGCCTCAATGTGTCTCTGGCTGATACCAACAGCCT
GGCAGTGGTCAGCACCCAGCTTATCATGCCTGGTCAAGAAGCAGGCCTTGGGCAGGTTCC
GCTGATCGTGGGCATCTTGCTGGTGTTGATGGCTGTGGTCCTTGCATCTCTGATATATAG
GCGCAGACTTATGAAGCAAGACTTCTCCGTACCCCAGTTGCCACATAGCAGCAGTCACTG
GCTGCGTCTACCCCGCATCTTCTGCTCTTGTCCCATTGGTGAGAATAGCCCCCTCCTCAG
TGGGCAGCAGGTCTGAGTACTCTCATATGATGCTGTGATTTTCCTGGAGTTGACAGAAAC
ACCTATATTTCCCCCAGTCTTCCCTGGGAGACTACTATTAACTGAAATAAATACTCAGAG
CCTGAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_006928 unedited
AAAAAATGTCACAATTGTATACGACTCATATAGGCGGCACGCGAATTCGCACGAGGGAAG
AACACAATGGATCTGGTGCTAAAAAGAGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGC
TGGCTGTGGGGGCTACAAAAGTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAGGCAAC
TCATAACCAAAGCCTGGAACAGGCAGCTGTATCCAGAGTGGACAGAAGCCCAGAGACTTG
ACTGCTGGAGAGGTGGTCAAGTGTCCCTCAAGGTCAGTAATGATGGGCCTACACTGATTG
GTGCAAATGCCTCCTTCTCTATTGCCTTGAACTTCCCTGGAAGCCAAAAGGTATTGCCAG
ATGGGCAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTGTGGGGAGGAC
AGCCAGTGTATCCCCAGGAAACTGACGATGCCTGCATCTTCCCTGATGGTGGACCTTGCC
CATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTTTATGTCTGGAAGACCTGGGGCCAAT
ACTGGCAAGTTCTAGGGGGCCCAGTGTCTGGGCTGAGCATTGGGACAGGCAGGGCAATGC
TGGGCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGGATCCCGGAGCTATGTGC
CTCTTGCTCATTCCAGCTCAGCCTTCACCATTACTGACCAGGTGCCTTTCTCCGTGAGCG
TGTCCCAGTTGCGGGCCTTGGATGGAGGGAACAAGCACTTCCTGAGAAATCAGCCTCTGA
CCTTTGCCCTNCAGCTNCATGACCCTAGTGGCTATCTGGCTGAAGCTGACCTCTCCTACA
CCTGGGACTTTGGAGACAGTAGTGGAACCCTG
```

**Restriction Sites:** Please inquire

**ACCN:** NM_006928

**Insert Size:** 2134 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

**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, NP_008859.1

**RefSeq Size:** 2143 bp

| | |
|---|---|
| **RefSeq ORF:** | 1986 bp |
| **Locus ID:** | 6490 |
| **UniProt ID:** | P40967 |
| **Cytogenetics:** | 12q13.2 |
| **Protein Families:** | Secreted Protein, Transmembrane |
| **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]<br>Transcript Variant: This variant (3) has a longer 5' UTR and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (3, Pmel17-i) is shorter than isoform 1. |