

Product datasheet for **RC234469**

Melanoma gp100 (PMEL) (NM_001200053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melanoma gp100 (PMEL) (NM_001200053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Melanoma gp100
Synonyms:	D12S53E; gp100; ME20; ME20-M; ME20M; P1; P100; PMEL17; SI; SIL; SILV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234469 representing NM_001200053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGCTA
 CAAAAGGGAGCCAGGTGTGGGGAGGACAGCCAGTGTATCCCCAGGAACTGACGATGCCTGCATCTTCCC
 TGATGGTGGACCTTGCCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTTTATGTCTGGAAGACCTGG
 GGCCAATACTGGCAAGTCTAGGGGGCCAGTGTCTGGGCTGAGCATTGGGACAGGCAGGCAATGCTGG
 GCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGATCCCGGAGCTATGTGCCTCTTGCTCATT
 CAGCTCAGCCTTACCATTACTGACCAGGTGCCTTCTCCGTGAGCGTGTCCAGTTGCGGGCCTTGGAT
 GGAGGGAACAAGCACTTCTGAGAAATCAGCCTCTGACCTTGGCCCTCCAGCTCCATGACCCAGTGGCT
 ATCTGGCTGAAGCTGACCTCTCTACACCTGGGACTTTGGAGACAGTGTGGAACCTGATCTCTCGGGC
 ACTTGTGGTCACTCATACTTACCTGGAGCTGGCCAGTCACTGCCAGGTGGTCTGCAGGCTGCCATT
 CCTCTCACCTCCTGTGGCTCCTCCCAAGTTCAGGCACACAGATGGGCACAGGCCAACTGCAGAGGCC
 CTAACACCACAGCTGGCCAAGTGCTACTACAGAAGTTGTGGTACTACACCTGGTCAAGCGCCAACCTGC
 AGAGCCCTCTGGAACCACATCTGTGCAGGTGCCAACCCTGAAGTCATAAGCACTGCACCTGTGCAGATG
 CCAACTGCAGAGACACAGGTATGACACCTGAGAAGGTGCCAGTTTCCAGAGGTATGGGTACCACACTGG
 CAGAGATGTCACTCCAGAGGCTACAGGTATGACACCTGCAGAGGTATCAATTGTGGTGTCTTCTGGAAC
 CACAGCTGCACAGGTAACAACACAGAGTGGGTGGAGACCACAGCTAGAGAGCTACCTATCCCTGAGCCT
 GAAGTCCAGATGCCAGCTCAATCATGTCTACGAAAGTATTACAGTTCCCTGGGCCCTCTGGTGGATG
 GTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGTGTCTGTATCGATATGGTTCCTT
 TTCCGTACCCTGGACATTGTCCAGGATTGAAAGTGCCGAGATCCTGCAGGCTGTGCCGTCCGGTGAG
 GGGGATGCATTTGAGCTGACTGTCTGCTGCAAGCGGGCTGCCAAGGAAGCCTGCATGGAGATCTCAT
 CGCCAGGGTGCCAGCCCCTGCCAGCGCTGTGCCAGCCTGTGCTACCCAGCCAGCCTGCCAGCTGGT
 TCTGCACCAGATACTGAAGGGTGGCTCGGGGACATACTGCCTCAATGTGTCTCTGGCTGATACCAACAGC
 CTGGCAGTGGTCAACACAGCTTATCATGCCTGGTCAAGAAGCAGGCCTTGGGCAGGTTCCGCTGATCG
 TGGGCATCTTGTGGTGTGATGGCTGTGGTCTTGCATCTCTGATATATAGGCGCAGACTTATGAAGCA
 AGACTTCTCCGTACCCAGTTGCCACATAGCAGCAGTCACTGGCTGCGTCTACCCCGCATCTTCTGCTCT
 TGTCCTATTGGTGAACAGCCCCCTCCTCAGTGGGCAGCAGGTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234469 representing NM_001200053
 Red=Cloning site Green=Tags(s)

MDLVLKRLLHLAVIGALLAVGATKGSQVWGGQPYPQETDDACIFPDGGPCPSGWSQKRSFVYVWKTW
 GQYQVQLGGPVSGLSIGTGRAMLGTHMEVTYHRRGRSRYVPLAHSSSAFTITDQVPFVSVSQLRALD
 GGNKHFLRNQPLTFALQLHDPGYLAEADLSYTWDFGDSSTLISRALVVHTYLEPGPVTAQVVLQAAI
 PLTSCGSSPVPPTDGHRTAEAPNTTAGQVPTTEVVGTTPGQAPTAEPSGTTSVQVPTTEVISTAPVQM
 PTAESTGMTPEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIIVLSGTTAAQVTTTEWVETARELPIPEP
 EGPDASSIMSTESITGSLGPLLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIVQGIESAELQAVPSGE
 GDAFELTVSCQGGPKPEACMEISSPGCQPPAQRLLCQVLPSPACQLVLHQILKGGSGTYCLNVSLADTNS
 LAVVSTQLIMPGQEAGLQVPLIVGILLVMAVVLASLIYRRRLMKQDFVSPQLPHSSSHWLRPRIFCS
 CPIGENSPLLSGQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001200053

ORF Size: 1725 bp

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_001200053.1](#), [NP_001186982.1](#)
RefSeq Size: 1902 bp

RefSeq ORF: 1728 bp

Locus ID: 6490

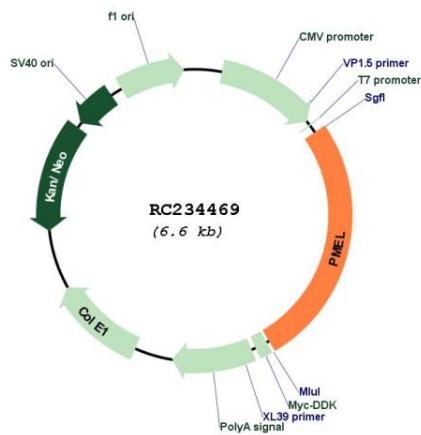
UniProt ID: [P40967](#)
Cytogenetics: 12q13.2

Protein Families: Secreted Protein, Transmembrane

MW: 61 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]

Product images:



Circular map for RC234469