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Product datasheet for SC331403

Melanoma gp100 (PMEL) (NM_001200053) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Melanoma gp100 (PMEL) (NM_001200053) 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)

Fully Sequenced ORF:

>SC331403 representing NM_001200053.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGGCT
ACAAAAGGGAGCCAGGTGTGGGGAGGACAGCCAGTGTATCCCCAGGAAACTGACGATGCCTGCATCTTC
CCTGATGGTGGACCTTGCCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTTTATGTCTGGAAGACC
TGGGGCCAATACTGGCAAGTTCTAGGGGGCCCAGTGTCTGGGCTGAGCATTGGGACAGGCAGGGCAATG
CTGGGCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGGATCCCGGAGCTATGTGCCTCTTGCT
CATTCCAGCTCAGCCTTCACCATTACTGACCAGGTGCCTTTCTCCGTGAGCGTGTCCCAGTTGCGGGCC
TTGGATGGAGGGAACAAGCACTTCCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCCC
AGTGGCTATCTGGCTGAAGCTGACCTCTCCTACACCTGGGACTTTGGAGACAGTAGTGGAACCCTGATC
TCTCGGGCACTTGTGGTCACTCATACTTACCTGGAGCCTGGCCCAGTCACTGCCCAGGTGGTCCTGCAG
GCTGCCATTCCTCTCACCTCCTGTGGCTCCTCCCCAGTTCCAGGCACCACAGATGGGCACAGGCCAACT
GCAGAGGCCCCTAACACCACAGCTGGCCAAGTGCCTACTACAGAAGTTGTGGGTACTACACCTGGTCAG
GCGCCAACTGCAGAGCCCTCTGGAACCACATCTGTGCAGGTGCCAACCACTGAAGTCATAAGCACTGCA
CCTGTGCAGATGCCAACTGCAGAGAGCACAGGTATGACACCTGAGAAGGTGCCAGTTTCAGAGGTCATG
GGTACCACACTGGCAGAGATGTCAACTCCAGAGGCTACAGGTATGACACCTGCAGAGGTATCAATTGTG
GTGCTTTCTGGAACCACAGCTGCACAGGTAACAACTACAGAGTGGGTGGAGACCACAGCTAGAGAGCTA
CCTATCCCTGAGCCTGAAGGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATTACAGGTTCCCTG
GGCCCCCTGCTGGATGGTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGTGTTCTG
TATCGATATGGTTCCTTTTCCGTCACCCTGGACATTGTCCAGGGTATTGAAAGTGCCGAGATCCTGCAG
GCTGTGCCGTCCGGTGAGGGGGATGCATTTGAGCTGACTGTGTCCTGCCAAGGCGGGCTGCCCAAGGAA
GCCTGCATGGAGATCTCATCGCCAGGGTGCCAGCCCCCTGCCCAGCGGCTGTGCCAGCCTGTGCTACCC
AGCCCAGCCTGCCAGCTGGTTCTGCACCAGATACTGAAGGGTGGCTCGGGGACATACTGCCTCAATGTG
TCTCTGGCTGATACCAACAGCCTGGCAGTGGTCAGCACCCAGCTTATCATGCCTGGTCAAGAAGCAGGC
CTTGGGCAGGTTCCGCTGATCGTGGGCATCTTGCTGGTGTTGATGGCTGTGGTCCTTGCATCTCTGATA
TATAGGCGCAGACTTATGAAGCAAGACTTCTCCGTACCCCAGTTGCCACATAGCAGCAGTCACTGGCTG
CGTCTACCCCGCATCTTCTGCTCTTGTCCCATTGGTGAGAACAGCCCCCTCCTCAGTGGGCAGCAGGTC
TGA

Restriction Sites: SgfI-MluI

View online »

ACCN:	NM_001200053
Insert Size:	1728 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_001200053.1
RefSeq Size:	1902 bp
RefSeq ORF:	1728 bp
Locus ID:	6490
UniProt ID:	P40967
Cytogenetics:	12q13.2
Protein Families:	Secreted Protein, Transmembrane
MW:	60.6 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] Transcript Variant: This variant (2) lacks two exons in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.