

Product datasheet for **RG204190**

MelanA (MLANA) (NM_005511) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MelanA (MLANA) (NM_005511) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MelanA
Synonyms: MART-1; MART1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204190 representing NM_005511
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAGAGAAGATGCTCACTTCATCTATGGTTACCCCAAGAAGGGGCACGGCCACTCTTACACCACGG
CTGAAGAGGCCGCTGGGATCGGCATCCTGACAGTGATCCTGGGAGTCTTACTGCTCATCGGCTGTTGGTA
TTGTAGAAGACGAAATGGATACAGAGCCTTGATGGATAAAAGTCTTCATGTTGGCACTCAATGTGCCTTA
ACAAGAAGATGCCACAAGAAGGGTTTGATCATCGGGACAGCAAAGTGTCTCTTCAAGAGAAAACTGTG
AACCTGTGGTTCCAATGCTCCACCTGCTTATGAGAACTCTCTGCAGAACAGTACCACCACCTTATTC
ACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204190 representing NM_005511
Red=Cloning site Green=Tags(s)
MPREDAHFYGYPKKGHGSYTTAEAAAGIGILTVILGVLLLIGCWYCRRRNGYRALMDKSLHVGTQCAL
TRRCPQEGFDHRDSKVSLSLQEKNCPEVVPNAPPAYEKLSAEQSPPPYSP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005511

ORF Size: 354 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.

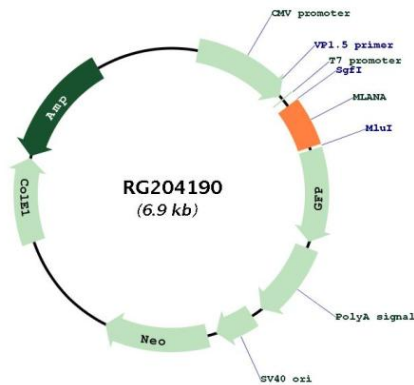
RefSeq: [NM_005511.2](#)

RefSeq Size: 1524 bp

RefSeq ORF: 357 bp

Locus ID: 2315
UniProt ID: [Q16655](#)
Cytogenetics: 9p24.1
Protein Families: Transmembrane
Gene Summary: Involved in melanosome biogenesis by ensuring the stability of GPR143. Plays a vital role in the expression, stability, trafficking, and processing of melanocyte protein PMEL, which is critical to the formation of stage II melanosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204190