

Product datasheet for **RG224660**

MFI2 (MELTF) (NM_033316) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MFI2 (MELTF) (NM_033316) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MELTF
Synonyms: CD228; MAP97; MFI2; MTf; MTF1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224660 representing NM_033316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATCGGGGTCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTGCTCGGTGGCATGGAGGTGC
 GGTGGTGCACCTCGGACCCAGAGCAGCACAAGTGC GGCAACATGAGCGAGGCCTCCGGGAAGCGGG
 CATCCAGCCCTCCCTCCTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGGGCCAG
 GAGGCTGACGCCATCACTCTGGATGGAGGAGCCATCTATGAGGCGGAAAGGAGCACGGCCTGAAGCCGG
 TGGTGGGCGAAGGTACGATCAAGAGGTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAAGGAGGCTC
 CCATGTGACCAATTGACACCCTGAAAGGCGTGAAGTCTGCCACACGGGCATCAATCGCACAGTGGGCTGG
 AACGTGCCCGTGGGCTACCTGGTGGAGAGCGGCCCTCTCGGTGATGGGCTGCGATGTACTCAAAGCTG
 TCAGCGACTATTTGGGGCAGCTGCGTCCCGGGGCAGGAGAGACCAGTTACTCTGAGTCCCTCTGTGCG
 CCTCTGCAGGGGTGACAGCTCTGGGGAAGGGGTGTGTGACAAGAGCCCCCTGGAGAGATACTACGACTAC
 AGCGGGGCTCCCGTGCCTGGCGGAAGGGGCAGGGGACGTGGCTTTTGTGAAGCACAGCACGGTACTGG
 AGAACACGGATGAAAGTCCATCACGAAGGCAAACATGGACCAGATCTGAGGAGGAAGAAGGCCAGTGCCC
 TGCACACGAGGAAGCACGTAGGACGATGCGCTCTAGTCTGGCAAGCCTGAAAATGGGCTCCCGTTTAC
 AGGCCCCAGGACGAGTCTGACAAAGGAGAATTTGAAAACGGGCAAAGAGTAGGGATATGTTGGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224660 representing NM_033316
Red=Cloning site Green=Tags(s)

MRGPSGALWLLLALRTVLGGMEVRCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQ
 EADAITLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVVRRSSHVTIDTLKGVKSCHTGINRTVWG
 NVPVGYLVE SGRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSSELCRLCRGDSSGEGVCDKSPLEYYDY
 SGAFRCLAEAGADVAFVKHSTVLENTDESPSRRTQWTRSEEEEGECPAHEEARRTMRSSAGQAWKWAPVH
 RPQDESDKGEFGKRAKSRDMLG

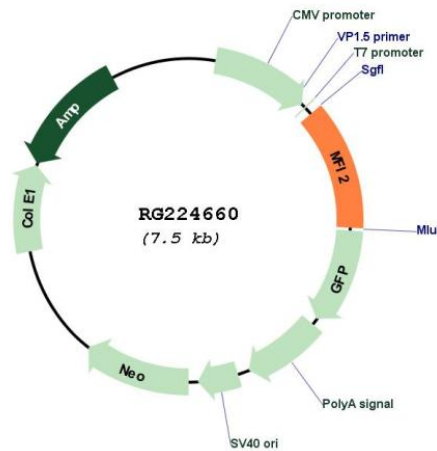
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033316

ORF Size: 906 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:	<ol style="list-style-type: none">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_033316.4
RefSeq Size:	1651 bp
RefSeq ORF:	909 bp
Locus ID:	4241
UniProt ID:	P08582
Cytogenetics:	3q29
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a cell-surface glycoprotein found on melanoma cells. The protein shares sequence similarity and iron-binding properties with members of the transferrin superfamily. The importance of the iron binding function has not yet been identified. This gene resides in the same region of chromosome 3 as members of the transferrin superfamily. Alternative splicing results in two transcript variants. [provided by RefSeq, Jul 2008]