

Product datasheet for **RG224600**

MFI2 (MELTF) (NM_005929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFI2 (MELTF) (NM_005929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFI2
Synonyms:	CD228; MAP97; MFI2; MTF; MTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224600 representing NM_005929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGGTCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTCTCGGAGGCATGGAGGTGC
 GGTGGTGCGCCACCTCGGACCCAGAGCAGCACAAGTGCGGCAACATGAGCGAGGCCCTCCGGAAGCGGG
 CATCCAGCCCTCCCTCCTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGCGGCCAG
 GAGGCTGACGCCATCACTCTGGATGGAGGAGCCATCTATGAGGCGGAAAGGAGCACGGCCTGAAGCCGG
 TGGTGGGCGAAGTGTACGATCAAGAGGTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAGGAGGAGCTC
 CCATGTGACCATTGACACCCTGAAAGGCGTGAAGTCTGCCACACGGGCATCAATCGCACAGTGGGCTGG
 AACGTGCCGTGGGCTACCTGGTGGAGAGCGGCCCTCTCGGTGATGGGCTGCGATGTACTCAAAGCTG
 TCAGCGACTATTTGGGGGCGAGTGCCTCCGGGGGCGAGGAGAGACCAGTTACTCTGAGTCCCTCTGTCC
 CCTCTGCAGGGGTGACAGCTCTGGGAAGGGGTGTGTGACAAGAGCCCCCTGGAGAGATACTACGACTAC
 AGCGGGGCTTCCGGTGCCTGGCGGAAGGGGCGAGGGGACGTGGCTTTTGTGAAGCACAGCACGGTACTGG
 AGAACACGGATGGGAAGACGCTTCCCTCCTGGGGCCAGGCCCTGCTGTCACAGGACTTCGAGCTGCTGTG
 CCGGGATGGTAGCCGGGCCGATGTACCCGAGTGGAGGCAGTGCCATCTGGCCCGGGTGCCTGCTCACGCC
 GTGGTGGTCCGGGCCGACACAGATGGGGCCCTCATCTCCGGCTGCTCAACGAAGGCCAGCGTCTGTTCA
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 CCCATGAAGGGTCTGCTCTGTGACCCCAACCGGCTGCCCCCTACCTGCGCTGGTGTGTGCTCTCCACTC
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 TCAATGCCAGCTGCGTGCCCGTGAACAACCCCAAGAACTACCCCTCCTCGCTGTGTGCACTGTGCGTGGG
 GGACGAGCAGGGCCGCAACAAGTGTGTGGCAACAGCCAGGAGCGGTATTACGGTACCCGCGGCCCTTC
 AGGTGCCCTGGTGGAGAATGCGGGTACGTTGCCTTCGTCAGGCACACAACCGTCTTTGACAACACAACG
 GCCACAATCCGAGCCCTGGGCTGCTGAGCTCAGGTGAGAGGACTATGAACTGCTGTGCCCAACGGGGC
 CCGAGCCGAGGTGTCCAGTTTGCAGCCTGCAACCTGGCACAGATACCACCCACGCCGTGATGGTCCGG
 CCCGACCAACATCTTACCCGTGATGGACTGCTGGACAAGGCCAGGACCTGTTTGGAGACGACCACA
 ATAAGAACGGGTTCAAAATGTTGACTCCTCCTCAACTATCATGGCCAAGACCTGCTTTTCAAGGATGCCAC
 CGTCCGGGCGGTGCTGTCGGAGAGAAAACCACTACCGCGGCTGGTGGGGCTGGACTACGTGGCGGCG
 CTGGAAGGGATGTCGTCTCAGCAGTCTCGGGCGAGCGGCCCGCCGGGGCGCCCTGCTCCCGC
 TGCTGTGCCCGCCCTCGCCGCCGCTGCTCCCGCCGCCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224600 representing NM_005929
 Red=Cloning site Green=Tags(s)

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MRGPSGALWLLLALRTVLGGMEVRCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQ
EADAITLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVRRSSHVTIDTLKGVKSCHTGINRTVGV
NVPVGYLVESGRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSSELCLRCRGDSSGEGVCDKSPLEYYDY
SGAFRCLAEAGADVAFVKHSTVLENTDGKTLPSWGQALLSQDFELLCRDGSRADVTEWRQCHLARVPAHA
VVVRADTDGGLIFRLLNEGQRLFSEHGSSFMFSSEAYGQKDLLFKDSTSELVPIATQTYEAWLGHEYLH
AMKGLLCDPNRLPPYLRWCVLSTPEIQKCGDMAVAFRRQRLKPEIQCVSAKSPQHCMERIQAEQVDAVTL
SGEDIYTAGKYYGLVPAAGEHYAPEDSSNSYVVAVVRRDSSHAF TLDELRGKRSCHAGFGSPAGWDVVPV
GALIQRGFIRPKDCDVL TAVSEFFNASCVPVNNPKNYPSL CALCVGDEQGRNKC VGNSQERYYYGYRGAF
RCLVENAGDVAFVRHTTVFDNTNGHNSEPWAAELRSEYELLCPNGARAEVSQFAACNLAIQPPHAVMVR
PDTNIFTVYGLLDKAQDLFGDDHNKNGFKMFDSSNYHGQDLLFKDATVRAVPVGEKTTYRGWGLDLYVAA
LEGMSSQQCSGAAAPAPGAPLLPLLLPALAARLLPPAL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005929

ORF Size: 2214 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_005929.3](#), [NP_005920.1](#)

RefSeq Size: 2377 bp

RefSeq ORF: 2217 bp

Locus ID: 4241

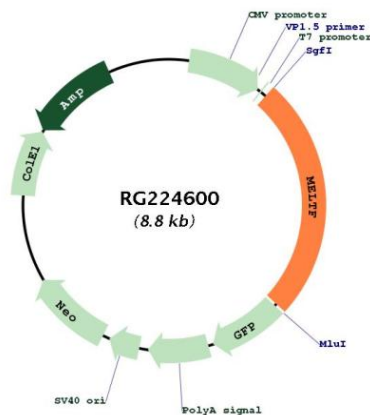
UniProt ID: [P08582](#)

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]

Product images:



Circular map for RG224600