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Product datasheet for RG205298

MLT5 (TESMIN) (NM_001039656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MLT5
Synonyms:	CXCDC2; MTL5; MTLT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205298 representing NM_001039656
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGGGCCCCTCTGCCGGGCGGGCTGCCCAGCCCCGAGGATGCGATGGTGACGGAGCTCTTAAGCC
CCGAGGGTCCGTTCGCTTCGGAGAACATCGGCCTGAAGGCCCCCGTGAAGTACGAGGAGGACGAGTTCCA
CGTCTTCAAAGAAGCGTACCTGGGCCCGGCGGACCCCAAGGAACCCGTCCTGCACGCGTTCAACCCCGCG
CTGGGCGCCGACTGCAAGGGCCAGGTCAAGGCGAAGCTCGCGGGGGGCGACAGCGACGGCGGGGAGCTCC
TCGGGGAGTACCCCGGGATCCCAGAGCTCAGCGCGCTGGAGGACGTCGCGCTCCTGCAGGCCCCGCAGCC
GCCCGCCTGCAACGTGCACTTCCTGTCCTCGCTGCTACCCGCGCACCGCAGCCCGGCGGTGTTGCCCCTG
GGCGCCTGGGTCCTGGAAGGAGCCTCCCACCCGGGCGTCCGCATGATCCCAGTTGAAATCAAGGAAGCAG
GTGGTACTACTACAAGTAATAATCCGGAAGAAGCAACTTTGCAGAATCTTCTTGCTCAGGAATCCTGTTG
CAAGTTCCCATCGTCCCAGGAACTAGAGGATGCCTCCTGCTGTTCTCTTAAGAAAGATTCCAACCCAATG
GTGATATGCCAATTGAAAGGGGGCACACAAATGCTATGTATAGACAATTCTAGAACAAGAGAACTAAAAG
CACTCCATTTGGTTCCTCAGTATCAAGATCAAAATAATTATCTACAGTCAGATGTCCCTAAACCAATGAC
TGCTTTAGTAGGGAGATTTTTGCCAGCATCAACAAAATTAAATCTCATTACACAACAACTTGAGGGAGCC
TTACCATCGGTAGTCAACGGGTCTGCTTTCCCCTCGGGATCAACTCTTCCAGGACCACCAAAAATAACTT
TGGCTGGG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

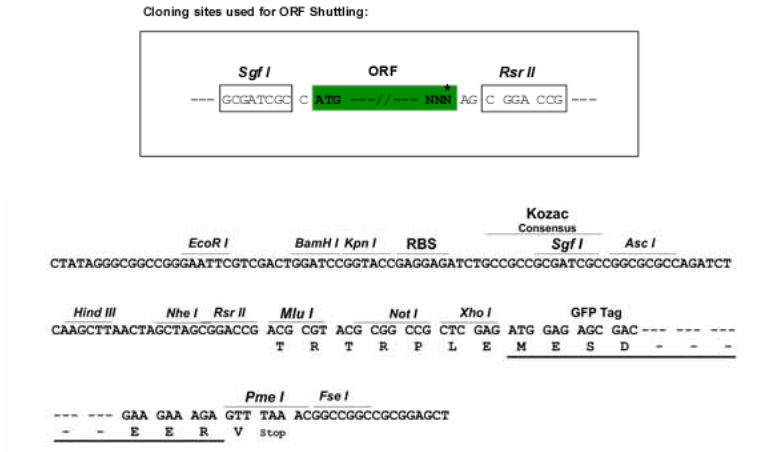
>RG205298 representing NM_001039656
Red=Cloning site Green=Tags(s)

MEEGPLPGGLPSPEDAMVTELLSPEGPFASENIGLKAPVKYEEDEFHVFKEAYLGPADPKEPVLHAFNPA
LGADCKGQVKAKLAGGDSDGGELLGEYPGIPELSALEDVALLQAPQPPACNVHFLSSLLPAHRSPAVLPL
GAWVLEGASHPGVRMIPVEIKEAGGTTTSNNPEEATLQNLLAQESCCKFPSSQELEDASCCSLKKDSNPM
VICQLKGGTQMLCIDNSRTRELKALHLVPQYQDQNNYLQSDVPKPMTALVGRFLPASTKLNLITQQLEGA
LPSVVNGSAFPSGSTLPGPPKITLAG

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001039656

ORF Size: 918 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001039656.1, NP_001034745.1

RefSeq Size: 3625 bp

RefSeq ORF: 921 bp

Locus ID: 9633

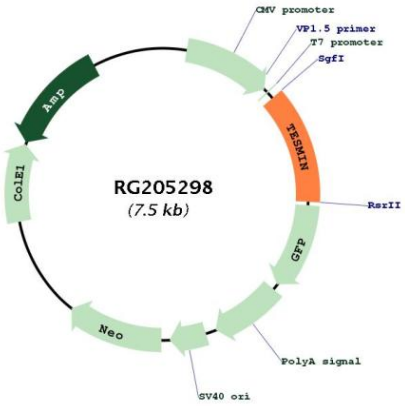
UniProt ID: Q9Y4I5

Cytogenetics: 11q13.3

Protein Families: Druggable Genome

Gene Summary: Metallothionein proteins are highly conserved low-molecular-weight cysteine-rich proteins that are induced by and bind to heavy metal ions and have no enzymatic activity. They may play a central role in the regulation of cell growth and differentiation and are involved in spermatogenesis. This gene encodes a metallothionein-like protein which has been shown to be expressed differentially in mouse testis and ovary. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205298