

Product datasheet for **RG200930**

ASMTL (NM_004192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASMTL (NM_004192) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASMTL
Synonyms:	ASMTLX; ASMTLY; ASTML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200930 representing NM_004192
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGTGTGCCGGTATTGGGAAGCTGCTGCACAAGCGCTGGTGTGGCCAGCGCCTCCCCACGCC
 GTCAGGAGATCCTCAGCAACCGGGTCTCAGGTTTGAGGTGGTCCCTCCAAGTTTAAAGAGAAGCTGGA
 CAAAGCCTCCTTCGCTACTCCGTATGGGTACGCCATGGAGACCGCAAGCAGAAGGCCCTGGAGGTGGCC
 AACCGGTGTACCAGAAAGACCTGCGGGCCCCGACGTGGTCATTGGAGCGGACACGATCGTGACGGTGC
 GGGGGCTGATTCTGGAGAAGCCGGTGGACAAGCAGGACGCTACAGGATGCTGTCCCGTTGAGTGGGAG
 AGAACACAGCGTGTTCACAGGTGTCGGATCGTCCACTGCTCCAGCAAAGACCATCAGCTGGACACCAGG
 GTCTCGGAATTCTACGAGAAACGAAGTGAAGTTCTCGAGCTGTCGAGGAGCTGCTCTGGGAATACG
 TCCACAGCGGGGAGCCCATGGACAAAGTGGCGGCTACGGGATCCAGGCCCTGGCGGCATGCTGGTGA
 GTCGTACACGGGACTTCTGAACGTGGTGGGATCCCCTGAACCACTTCTGCAAGCAGCTGGTGAAG
 CTCTACTACCCGCCCCCGCGGAGGACCTGCGGGGAGTGTCAAGCAGACTCCATCCCGCCCGCGGACA
 CCTTCGAAGACCTCAGTGACGTGGAGGGGGTGGCTCGGAGCCACTCAGAGGGACGCGGGCAGCCGCGA
 TGAGAAAGCCGAGGCGGGAGAGGCGGGACAGGCCACGGCAGAGGCTGAGTGTACAGGACTCGGGAGACC
 CTGCCTCCGTTCCCGACACGCCTCCTGGAGCTGATTGAGGGCTTATGCTATCCAAGGCCCTGCTCACCG
 CTTGCAAAGTGAAGGTGTTGATTTGTTAAAAGATGAAGCACCCAGAAGGCTGCGGATATTGCCAGCAA
 AGTGGACGCCTCTGCGTGTGGAATGGAGAGGCTTCTGGACATCTGTGCTGCCATGGGGCTCCTGGAGAAG
 ACAGAGCAAGGTTACAGTAACACAGAGACAGCGAACGCTACCTGGCATCGGATGGCGAATACTCTGCA
 ACGGCTTCATCATGCACAATAATGACCTCACATGGAACCTTTTACATACCTGGATTTGCCATCCGAGA
 GGGAAACAACCAGCACACAGGGCGTTGGGAAGAAGGCGGAAGATCTGTTCCAGGATCGGTACTACCAG
 AGCCCGGAGACGCGGCTGAGTTTATGCGGGCCATGCACGGCATGACGAAGCTGACTGCGTGCCAGGTGG
 CCACGGCCTTCAATCTGTCCCGTCTCCTCCGCTGCGACGTGGGAGGCTGCACCGGTGCACTGGCCCG
 AGAGCTGGCCCGTGAATACCTCGTATGCAGGTGACTGTGTTGACCTCCAGACATTATCGAGCTGGCC
 GCCCACTTCAACCCCGGACCGCAGGAGTGCAGATCCACTTCGACGAGGTGACTTTTTCAGGGACC
 CCCTCCCAGCGTGAAGTGTACGTCCTGTGCCGATCCTGCATGACTGGCCAGACGACAAAGTCCACAA
 GTTACTCAGCAAGGTCGCGAGAGCTGCAAGCCAGGGCCCGCTGCTGCTGGTGGAGACGCTCCTGGAT
 GAGGAGAAGAGGTTGGCGCAGCGGCCCTGATGCAGTCACTGAACATGCTGGTGCAGACTGAAGGCAAGG
 AGCGGAGCCTGGCGAGTATCAGTGCTTGTGGAGCTGCACGGCTCCACCAGGTGCAGGTGGTGCCTT
 GGGGGTGTCTGGATGCCATCTTGCCACCAAAGTGGCCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200930 representing NM_004192
 Red=Cloning site Green=Tags(s)

MVLCPIVIGKLLHKRVVLASASPRRQEILSNAGLRFVVPVSKFKEKLDKASFATPYGYAMETAKQKALEVA
 NRLYQKDLRAPDVVIGADTIVTVGGILILEKPVDKQDAYRMLSRLSGREHSVFTGVAIVHCSKDHQLDTR
 VSEFYEETKVKFSELSEELLWEYVHSGEPMKAGGYGIQALGGMLVESVHGDFLNVVGFPLNHFCKQLVK
 LYPPRPEDLRRSVKHDSIPAADTFEDLSDVEGGGSEPTQRDAGSRDEKAEAGEAQATAEAECHRTRET
 LPPFPTRLLELIEGFMLSKLLTACKLKVFDLLKDEAPQKAADIASKVDASACGMERLLDICAAMGELLEK
 TEQYSNTETANVYLASDGEYSLHGFIMHNNDLWNLFYLEFAIREGNTQHHRALGKKAEDLFQDAYYQ
 SPETRLRFMRAMHGMTKLTACQVATAFNLSRFSSACDVGCTGALARELAREYPRMQVTVFDLPDIIELA
 AHFQPPGPQAVQIHFAAGDFFRDPLPSAELYVLCRILHDWPDVKVHLLSKVAESCKPGAGLLLVETLLD
 EEKRVARALMQSLNMLVQTEGKERSLGEYQCLLELHGFHQVQVHLGGVLDAILATKVAP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004192

ORF Size: 1863 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_004192.2](#), [NP_004183.2](#)

RefSeq Size: 2123 bp

RefSeq ORF: 1866 bp

Locus ID: 8623

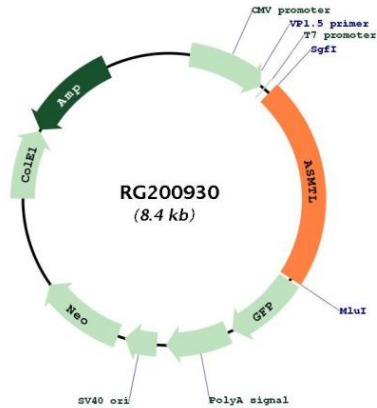
UniProt ID: [O95671](#)

Cytogenetics: X;Y

Domains: Methyltransf_2, Maf

Gene Summary: The protein encoded by this gene has an N-terminus that is similar to the multicopy associated filamentation (maf) protein of *Bacillus subtilis* and to orfE of *Escherichia coli*, while the C-terminus is similar to N-acetylserotonin O-methyltransferase. This gene is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG200930