

Product datasheet for **RG230281**

ASMTL (NM_001173473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASMTL (NM_001173473) 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:

>RG230281 representing NM_001173473
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCGCCAAGCAGAAGGCCCTGGAGGTGGCCAACCGGCTGTACCAGAAAGACCTGCGGGCCCCCG
 ACGTGGTCATTGGAGCGGACACGATCGTGACAGTCGGGGGGCTGATTCTGGAGAAGCCGGTGACAAGCA
 GGACGCCCTACAGGATGCTGTCCCGTTGAGTGGGAGAGAACACAGCGTGTTCACAGGTGTCGCGATCGTC
 CACTGCTCCAGCAAAGACCATCAGCTGGACACCAGGGTCTCGGAATTCACGAGGAAACGAAGGTGAAGT
 TCTCGGAGCTGTCCGAGGAGCTGCTCTGGGAATACGTCCACAGCGGGGAGCCCATGGACAAGCTGGCGG
 CTACGGGATCCAGGCCCTGGCGGCATGCTGGTGGAGTCCGTACACGGGGACTTTCTGAACGTGGTGGGA
 TTCCCGCTGAACCACTTCTCAAGCAGCTGGTGAAGCTCTACTACCCGCCCGTCCGGAGGACCTGCGGC
 GGAGTGTCAAGCAGGACTCCATCCCGGCCGCGGACACCTTGAAGACCTCAGTGACGTGGAGGGGGCGG
 CTCGGAGCCCACTCAGAGGGACGCGGGCAGCCGCGATGAGAAGGCCGAGGCGGGAGAGGGCGGACAGGCC
 ACGGCAGAGGCTGAGTGTACAGGACTCGGAGACCCTGCCTCCGTTCCCGACACGCCTCCTGGAGCTGA
 TTGAGGGCTTTATGCTATCCAAGGGCTGCTCACCGCTTGCAAACCTGAAGGTGTTGCGATTTGTTAAAGA
 TGAAGCACCCAGAAGGCTGCGGATATTGCCAGCAAAGTGGACGCCTCTGCGTGTGGAATGGAGAGGCTT
 CTGGACATCTGTGCTGCCATGGGGCTCCTGGAGAAGACAGAGCAAGGTTACAGTAACACAGAGACAGCGA
 ACGTCTACCTGGCATCGGATGGGAATACTCTCTGCACGGCTTCATCATGCACAATAATGACCTCACATG
 GAACCTCTTACATACTGGAGTTTGCCATCCGAGAGGGAACAACCAGCACCACAGGGCGTTGGGAAG
 AAGGCGGAAGATCTGTTCCAGGATGCGTACTACCAGAGCCCGAGACCGGGTGAAGTTCATGCGGGCCA
 TGCACGGCATGACGAAGCTGACTGCGTCCAGGTGGCCACGGCCTCAATCTGTCCCGCTCTCCTCCG
 CTGCGACGTGGGAGGCTGCACGGGTGCACTGGCCGAGAGCTGGCCCGTGAAGTACCCTCGTATGCAGGTG
 ACTGTGTTTGACCTCCCAGACATTATCGAGCTGGCCGCCCACTTCCAACCCCGGACCGCAGGCAGTGC
 AGATCCACTTCGCAGCAGGTGACTTTTTAGGGACCCCTCCCAGCGCTGAGCTGTACGTCTGTGCCG
 GATCCTGCATGACTGGCCAGACGACAAAGTCCACAAGTACTCAGCAGGGTCCCGAGAGCTGCAAGCCA
 GGGGCCGCTGCTGCTGGTGGAGACGCTCCTGGATGAGGAGAAGAGGGTGGCGCAGCGCCCTGATGC
 AGTCACTGAACATGCTGGTGCAGACTGAAGCAAGGAGCGGAGCCTGGCGAGTATCAGTCTTGTGGA
 GCTGCACGGCTCCACCAGGTGCAGGTGGTGCCTTGGGGGTGCTCCTGGATGCCATCTTGCCACCAA
 GTGGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230281 representing NM_001173473
 Red=Cloning site Green=Tags(s)

METAKQKALEVANRLYQKDLRAPDVVIGADTIVTVGGLILEKPVDKQDAYRMLSRLSGREHSVFTGVAIV
 HCSSKDHQLDTRVSEFYEETKVKFSELSELLWEYVHSGEPMKAGGYGIQALGGMLVESVHGDFLNVVG
 FPLNHFKQLVKLYPPRPEDLRRSVKHDSIPAADTFEDLSDVEGGGSEPTQRDAGSRDEKAEAGEAGQA
 TAEAECHRTRETLPPFPTRLELEIEGFMLSKGLLTACKLKVFDLLKDEAPQKAADIASKVDASACGMERL
 LDICAAAGLLEKTEQYSNTETANVYLASDGEYSLHGFIMHNNDLTWNLFYLEFAIREGNTQHHRALGK
 KAEDLFQDAYYQSPETRLRFMRAMHGMTKL TACQVATAFNLSRFSSACDVGGCTGALARELAREYPRMQV
 TVFDLPDIIELAHFQPPGPQAVQIHFAAGDFFRDPLPSAELYVLCRILHDWPDDKVHKLISRVAESCKP
 GAGLLL VETLLDEEKRAVQRALMQSLNMLVQTEGKERSLGEYQCLLELHGFHQVQVHLGGVLDAILATK
 VAP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001173473.1 , NP_001166944.1
RefSeq Size:	2064 bp
RefSeq ORF:	1692 bp
Locus ID:	8623
UniProt ID:	O95671
Cytogenetics:	X;Y
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]