

Product datasheet for **SC335386**

EST1A (SMG6) (NM_001282326) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EST1A (SMG6) (NM_001282326) Human Untagged Clone
Tag:	Tag Free
Symbol:	EST1A
Synonyms:	C17orf31; EST1A; hSMG5/7a; SMG-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335386 representing NM_001282326. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAGATTTAGGCTTTGCCACAGAGGGTTGCTGTCCACATGAGAGAGAGAACACCTGCACCTGTAAA
 ATGATCATCAGTAGTCTCCAGGTTATTGCAGCTGACTGCAAAAGGGTCACAGTGTGAAGTATTTCTG
 GAAGCCCTTTGTGGACAAGAAGACCTCTGCTGGCATTCAAGGGTGAAAGTATGTGTAGTGGCACCC
 GTCCCAGACACCATGGGAAAGGAAATGGGAAGCCAAGAGGGAACACGACTGGAAGATGAGGAGGAGGAT
 GTGGTGATTGAAGACTTTGAGGAAGATTCAGAGGCTGAAGGCAGCGGAGGCGAGGATGACATCAGGGAG
 CTTCCGGCCAAGAAGCTGGCTCTGGCCAGGAAGATAGCTGAGCAGCAGCGTCGCCAGGAAAAGATCCAG
 GCTGTCTTGGAGGACCACAGTCAGATGAGGCAGATGGAGCTCGAAATCAGACCTTTGTTCTCTGTACCA
 GACACCAACGGCTTCATTGACCACCTGGCCAGTCTGGCGCGGCTGCTGGAGAGCAGGAAGTACATCCTG
 GTGGTGCCCTCATCGTGATCAATGAGCTGGACGGCCTGGCCAAGGGGCAGGAGACAGACCACGGGCT
 GGGGGCTACGCCCGTGTGGTACAAGAGAAGGCCCGCAAGTCCATCGAGTTCCTCGAGCAGCGATTTCGAG
 AGTCGGGACTCTTGCTGCGAGCCCTGACCAGCCGTGGCAATGAAGTCAATCCATCGCCTTCGCGAGT
 GAGGACATCACTGGCCAGCTGGGTAACAACGATGATCTCATCTGCTGCTGCCCTCACTACTGCAAA
 GACAAGGCTAAGGACTTCATGCCCGCCAGCAAAGAGGAGCCAATCCGGCTACTGCGGGAGGTGGTGCTG
 TTGACGGATGACCGAACCTGCGTGTGAAGGCGCTCACAAGGAATGTTCTGTACGGGACATCCAGCC
 TTCCTCACGTGGGCCAGGTGGGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282326
Insert Size:	993 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001282326.1</u>
RefSeq Size:	4243 bp
RefSeq ORF:	993 bp
Locus ID:	23293
UniProt ID:	<u>Q86US8</u>
Cytogenetics:	17p13.3
MW:	37.5 kDa
Gene Summary:	<p>This gene encodes a component of the telomerase ribonucleoprotein complex responsible for the replication and maintenance of chromosome ends. The encoded protein also plays a role in the nonsense-mediated mRNA decay (NMD) pathway, providing the endonuclease activity near the premature translation termination codon that is needed to initiate NMD. Alternatively spliced transcript variants encoding distinct protein isoforms have been described. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (5) uses an alternate internal promoter and thus differs in the 5' UTR and 5' coding region compared to variant 1. These differences cause translation initiation at an alternate AUG, and the resulting isoform (4) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>