

Product datasheet for **SC330527**

EST1A (SMG6) (NM_001256827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EST1A (SMG6) (NM_001256827) Human Untagged Clone
Tag:	Tag Free
Symbol:	EST1A
Synonyms:	C17orf31; EST1A; hSMG5/7a; SMG-6
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330527 representing NM_001256827. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGACATTCCCTGCAGTGGCTGAGAAGTCTCAAGGAGTTCAGGTGTTACTGCAGCACAGCCCC
TCTCCATTGGAAGTACCCGCATGCTGCAGCTTATGACCATCAATATGTTTGCAGTACACAACCTCCAG
CTGAAAGACTGCTTCTCGGAGGAGTGCCGCTCTGTGATCCAGGAACAAGCCGCAGCTCTGGGCTTGGCC
ATGTTTTCTCTACTGGTCCGCCGCTGCACCTGCTTACTTAAGGAGTCCGCCAAAGCTCAGCTGTCCTCT
CCTGAGGACCAGGATGACCAAGACGACATCAAGGTGTCTTCTTTGTCCCGACCTGAAGGAGCTGCTC
CCCAGTGTCAAAGTCTGGTCAGATTGGATGCTCGGCTACCCGGACACCTGGAATCCTCTCCACATCC
CTGGATCTGCCCTCGCATGTTGCTGTGGATGTATGGTCGACGCTGGCTGATTTCTGTAACATACTGACT
GCAGTGAATCAGTCTGAGGTGCCACTGTACAAGGACCCGGATGATGACCTCACCTTCTTATCCTGGAA
GAGGATCGGCTTCTCTCGGGCTTTGTCCCTTGTCTGGCTGCCCTCAGGACCCCTGCTACGTGGAGAAA
ACCTCGGATAAGGTTATTGCAGCTGACTGCAAAAGGGTCACAGTGCTGAAGTATTTCTGGAAGCCCTT
TGTGGACAAGAAGAGCCTCTGCTGGCATTCAAGGGTGGAAAGTATGTGTCAGTGGCACCCGTCCCAGAC
ACCATGGGAAAGGAAATGGGAAGCCAAGAGGGAACACGACTGGAAGATGAGGAGGAGGATGTGGTGATT
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AAGAAGCTGGCTCTGGCCAGGAAGATAGCTGAGCAGCAGCGTCGCCAGGAAAAGATCCAGGCTGTCCTG
GAGGACCACAGTCAGATGAGGCAGATGGAGCTCGAAATCAGACCTTTGTTCTCGTACCAGACACCAAC
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GCCCCTGTGGTACAAGAGAAGGCCCGCAAGTCCATCGAGTTCTCGAGCAGCGATTGAGAGTCTGGGAC
TCTTGCTGCGAGCCCTGACCAGCGTGGAATGAAGTGAATCCATCGCTTCCGAGTGGGACATC
ACTGGCCAGCTGGGTAAACAGATGATCTATCTGTCTGCTGCCTCCACTACTGCAAAGACAAGGCT
AAGGACTTCATGCCCGCCAGCAAAGAGGAGCCAATCCGGCTACTGCGGGAGGTGGTGTGTTGACGGAT
GACCGGAACCTGCGTGTGAAGGCGCTACAAGGAATGTTCTGTACGGGACATCCAGCCTTCTCACG
TGGGCCAGGTGGGCTGA
  
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001256827
Insert Size:	1536 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:	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_001256827.1</u>
RefSeq Size:	3484 bp
RefSeq ORF:	1536 bp
Locus ID:	23293
UniProt ID:	<u>Q86US8</u>
Cytogenetics:	17p13.3
MW:	57.5 kDa
Gene Summary:	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] Transcript Variant: This variant (3) 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 a downstream AUG, and the resulting isoform (3) has a shorter N-terminus compared to isoform 1. Variants 3 and 4 encode the same protein (isoform 3). 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.