

Product datasheet for **SC315365**

EST1A (SMG6) (NM_017575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EST1A (SMG6) (NM_017575) 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:	>SC315365 representing NM_017575. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**
ATGGCGGAAGGGCTGGAGCGTGTGCGGATCTCCGCGTCGGAGCTGCGCGGGATCCTGGCTACTCTGGCC
CCGCAGGCCGGGAGCAGAGAAAACATGAAGGAATTAAAGGAGGCCAGGCCGCGCAAAGATAACAGGCGT
CCAGATCTGGAATCTATAAGCCTGGCCTTTCTCGGCTAAGGAACAAGCCAAAAATCAAGGAACCCCT
GGGAGTGAGGAATCAAGATGAAATTGTTAATGACCGAGATTGCTCTGCTGTTGAAAATGGTACACAG
CCCGTTAAAGATGTCTGAAGGAAGTGAACAACCAAGAGCAGAATGGTCTATAGACCCAGAAAATAAT
CGGGGACAAGAATCCTTTCTAGGACTGCTGGACAAGAGGATCGTAGTCTAAAAATTATCAAAGAACA
AAGAAACCCGACCTGCAGATCTATCAGCCTGGACGACGTTTGCAGACTGTTAGCAAAGAATCCGCCAGT
CGGGTGGAGGAGGAAGAAGTCTCAACCAGGTAGAACAAGTGAAGTAGAGGAAGATGAGTGTAGGGGA
AATGTTGCGAAGGAGGAAGTTGCGAATAAACAGACAGGGCTGAGATAGAAAAGAGCCAGGTGGTGGG
AGAGTAGGGGTGCAAAAGGAGAAAAAGGAAAGAGGATGGGAAAAGGGGAGGGGTGAGGGAAACCCAC
GACGACCCAGCCCGGGAGGCCGGGCTCCGCAAGCGCTACTCCGCTCAGACAAACGAAGGAATCGC
TACCGCACGCGCAGCACCAGCTCAGCTGGCAGCAACAACAGCGCTGAGGGAGCTGGCCTGACGGATAAT
GGATGTCGCCGCCGCGCAGGATAGGACCAAGGAGAGGCCACGACTGAAGAAGCAAGTGTCTGTGTCC
TCAACCGATTCTTAGACGAGGACAGAATTGATGAGCCTGATGGATTAGGACCCAGGAGAAGTTCAGAA
AGGAAGAGACATTTAGAAAGAACTGGTCTGGCCGTGGGAGGGTGAGCAGAAAAACAGTGTCTAAAGAA
TATCGAGGCACTTTCGTGTCACTTTTCATGCAAGGCCATGAACAAAGAGTCTCCCATGGTGAGGTCA
GCCAGGGATGATGGATAGAGGAAAGCCTGACAAAGGCTTGAGCAGTGGGGGCAAGGCTCTGAGAAG
CAGGAGTCCAAAAACCCGAAACAAGAACTTCGGGGTCTGGTCTGGCATTCTGATTTTGCTGCCCAT
ACCACCTATCTGTCAATTCAGCAGGTTCTCCAGAGTCCGCGCCTTTGGGACCTCGGCTTTTGTGGA
TCTGGTAGTAAGGGATCTCGGAGTTGGGGCCGTGGAGGCACACGCGGATTGTGGACCCAAACAAT
CCTGATCAGAAACCTGCTCTAAAGACTCAGACGCCCCAGCTACATTTCTTGACACTGATGATGAAGTC
AGCCCTACATCTTGGGTGACTCAGCCAGGCTCAGGCATCTTACTATAAGTTTCAAACCTCTGACAAC



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CCCTATTATTACCCCGGACACCAGGCCCTGCCTCCCAGTATCCCTATACGGGCTATAACCCCTCTACAG
TACCCAGTGGGCCCTACGAATGGTGTGTACCCAGGGCCTTACTACCCAGGCTACCCGACTCCGTCAGGA
CAGTATGTGTGTAGCCCTCTACCTACCAGCACCATGAGTCCCAGGAGGTAGAGCAGCACATGAGGAAC
CTGCAGCAACAGGAGCTGCACAGGCTTCTCCGGGTGGCTGACAACCAGGAACTGCAGCTCAGCAACCTG
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GAACAGATTTCGGAACAGACTTTTGGAGCTCTTGGATGAGGGTAGTGACTTCTTTGATAGTTTGCTTCAG
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AGGTACCGGGAGCAAGCCAGTGATACAGCGAATTATGGGAAAGCACGCAGTTGGTACCTGAAGGCCAG
CACATTGCTCCCAAGAATGGGCGCCCTATAACCAGTTGGCTTTGCTGGCAGTGTATACGAGGAGGAAG
CTTGACGCTGTCTATTACTATATGCGCAGTTAGCTGCCAGCAACCTATCCTGACTGCCAAGGAGAGT
CTCATGAGCTTGTGTTGAAGAGACCAAGCGAAGGCAGAACAGATGAAAAAGAAGCAACATGAGGAATTT
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CGCTGGAGATCTGGATTTCATCCATCCATCCACGGTCTTCCAGGGCACTGAGTCTGGGAAGGATTCT
GAGCAAGAGAATGGGCTGGGCAGCTGAGTCCCAGTGTCTGAACAAAAGGTTTATCCTCAGTTTTCTC
CATGCCCATGGGAAGCTGTTTACCCGATTGGGATGGAGACATTCCTGCAGTGGCTGAGAAGGTCTC
AAGGAGTTCAGGTGTTACTGCAGCACAGCCCTCTCCATTGGAAGTACCCGCATGCTGCAGCTTATG
ACCATCAATATGTTTGCAGTACAACTCCAGCTGAAAGACTGCTTCTCGGAGGAGTGCCGCTCTGTG
ATCCAGGAACAAGCCGAGCTCTGGGCTTGGCCATGTTTTCTCTACTGGTCCGCCGCTGCACCTGCTTA
CTTAAGGAGTCCGCCAAGCTCAGCTGTCTCTCTGAGGACCAGGATGACCAAGACGACATCAAGGTG
TCTTCTTTGTCCCGACCTGAAGGAGCTGTCTCCAGTGTCAAAGTCTGGTCAAGTGTGGATGCTCGGC
TACCCGGACACCTGGAATCCTCTCCACATCCCTGGATCTGCCCTCGCATGTTGTGTGGATGTATGG
TCGACGCTGGCTGATTTCTGTAACATACTGACTGCAGTGAATCAGTCTGAGGTGCCACTGTACAAGGAC
CCGGATGATGACCTCACCTTCTTATCCTGGAAGAGGATCGGCTTCTCTCGGGCTTTGTCCCTTGTG
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GTCACAGTGTGAAGTATTTTCTGGAAGCCCTTTGTGGACAAGAAGAGCCTCTGCTGGCATTCAAGGT
GGAAAGTATGTGTCAGTGGCACCCTGCCAGACACCATGGGAAAGGAAATGGGAAGCCAAGAGGGAACA
CGACTGGAAGATGAGGAGGAGGATGTGGTATTGAAGACTTTGAGGAAGATTGAGGCTGAAGGCAGC
GGAGGCGAGGATGACATCAGGGAGCTTCGGGCCAAGAAGCTGGCTCTGGCCAGGAAGATAGCTGAGCAG
CAGCGTCCGACGAAAAGATCCAGGCTGTCTGGAGGACCACAGTCAGATGAGGCAGATGGAGCTCGAA
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GGGAGGAGACAGACCACCGGCTGGGGCTACGCCCTGTGGTACAAGAGAAGGCCCGCAAGTCCATC
GAGTTCCTCGAGCAGGATTTCGAGAGTCGGGACTCTTGCTGCGAGCCCTGACCAGCCGTGGCAATGAA
CTCGAATCCATCGCCTTCGCGAGTGAGGACATCACTGGCCAGCTGGGTAAACAACGATGATCTATCCTG
TCCTGCTGCCTCCACTACTGCAAGACAAGGCTAAGGACTTCATGCCCGCCAGCAAGAGGAGCCAATC
CGGCTACTGCGGAGGTGGTGTGTTGACGGATGACCGGAACCTGCGTGTGAAGGCGCTCACAAGGAAT
GTTCTGTACGGGACATCCAGCCTTCTCACGTGGGCCAGGTGGGCTGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_017575

Insert Size:

4260 bp

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_017575.4</u>
RefSeq Size:	5968 bp
RefSeq ORF:	4260 bp
Locus ID:	23293
UniProt ID:	<u>Q86US8</u>
Cytogenetics:	17p13.3
Domains:	PINc
MW:	160.5 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 (1) represents the longest transcript and encodes the longest isoform (1).