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Product datasheet for SC330528

EST1A (SMG6) (NM_001256828) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: EST1A (SMG6) (NM_001256828) Human Untagged Clone

Tag: Tag Free

Symbol: EST1A

Synonyms: C17orf31; EST1A; hSMG5/7a; SMG-6

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC330528 representing NM_001256828.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGAGACATTCCCTGCAGTGGCTGAGAAGGTCCTCAAGGAGTTCCAGGTGTTACTGCAGCACAGCCCC
TCTCCCATTGGAAGTACCCGCATGCTGCAGCTTATGACCATCAATATGTTTGCAGTACACAACTCCCAG
CTGAAAGACTGCTTCTCGGAGGAGTGCCGCTCTGTGATCCAGGAACAAGCCGCAGCTCTGGGCTTGGCC
ATGTTTTCTCTACTGGTCCGCCGCTGCACCTGCTTACTTAAGGAGTCCGCCAAAGCTCAGCTGTCCTCT
CCTGAGGACCAGGATGACCAAGACGACATCAAGGTGTCTTCCTTTGTCCCGGACCTGAAGGAGCTGCTC
CCCAGTGTCAAAGTCTGGTCAGATTGGATGCTCGGCTACCCGGACACCTGGAATCCTCCTCCCACATCC
CTGGATCTGCCCTCGCATGTTGCTGTGGATGTATGGTCGACGCTGGCTGATTTCTGTAACATACTGACT
GCAGTGAATCAGTCTGAGGTGCCACTGTACAAGGACCCGGATGATGACCTCACCCTTCTTATCCTGGAA
GAGGATCGGCTTCTCTCGGGCTTTGTCCCCTTGCTGGCTGCCCCTCAGGACCCCTGCTACGTGGAGAAA
ACCTCGGATAAGGTTATTGCAGCTGACTGCAAAAGGGTCACAGTGCTGAAGTATTTTCTGGAAGCCCTT
TGTGGACAAGAAGAGCCTCTGCTGGCATTCAAGGGTGGAAAGTATGTGTCAGTGGCACCCGTCCCAGAC
ACCATGGGAAAGGAAATGGGAAGCCAAGAGGGAACACGACTGGAAGATGAGGAGGAGGATGTGGTGATT
GAAGACTTTGAGGAAGATTCAGAGGCTGAAGGCAGCGGAGGCGAGGATGACATCAGGGAGCTTCGGGCC
AAGAAGCTGGCTCTGGCCAGGAAGATAGCTGAGCAGCAGCGTCGCCAGGAAAAGATCCAGGCTGTCCTG
GAGGACCACAGTCAGATGAGGCAGATGGAGCTCGAAATCAGACCTTTGTTCCTCGTACCAGACACCAAC
GGCTTCATTGACCACCTGGCCAGTCTGGCGCGGCTGCTGGAGAGCAGGAAGTACATCCTGGTGGTGCCC
CTCATCGTGATCAATGAGCTGGACGGCCTGGCCAAGGGGCAGGAGACAGACCACCGGGCTGGGGGCTAC
GCCCGTGTGGTACAAGAGAAGGCCCGCAAGTCCATCGAGTTCCTCGAGCAGCGATTCGAGAGTCGGGAC
TCTTGCCTGCGAGCCCTGACCAGCCGTGGCAATGAACTCGAATCCATCGCCTTCCGCAGTGAGGACATC
ACTGGCCAGCTGGGTAACAACGATGATCTCATCCTGTCCTGCTGCCTCCACTACTGCAAAGACAAGGCT
AAGGACTTCATGCCCGCCAGCAAAGAGGAGCCAATCCGGCTACTGCGGGAGGTGGTGCTGTTGACGGAT
GACCGGAACCTGCGTGTGAAGGCGCTCACAAGGAATGTTCCTGTACGGGACATCCCAGCCTTCCTCACG
TGGGCCCAGGTGGGCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001256828

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:	NM_001256828.1
RefSeq Size:	3241 bp
RefSeq ORF:	1536 bp
Locus ID:	23293
UniProt ID:	Q86US8
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 (4) 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.