

Product datasheet for **SC119415**

Amino terminal enhancer of split (AES) (NM_001130) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amino terminal enhancer of split (AES) (NM_001130) Human Untagged Clone
Tag:	Tag Free
Symbol:	Amino terminal enhancer of split
Synonyms:	AES; AES-1; AES-2; ESP1; GRG; Grg-5; GRG5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119415 sequence for NM_001130 edited (data generated by NextGen Sequencing)

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ATGATGTTTCCACAAAGCAGGCATTCGGGCTCCTCGCACCTACCCAGCAACTCAAATTC
ACCACCTCGGACTCCTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTAC
CACAGCCTCAAGCTCGAATGTGACAAGTTGGCCAGTGAGAAGTCAGAGATGCAGCGTCAC
TATGTGATGTAACGAGATGTCTACGGCTTGAACATCGAGATGCACAAACAGGCTGAG
ATCGTCAAAGGCTGAACGGGATTTGTGCCAGGTCCTGCCCTACCTCTCCCAAGAGCAC
CAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAAC
TCTATCATCCGACAGCAGCTCCAAGCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTG
CCCTTGACCCCACTACCCGTGGGCTGCAGCCGCCTTCGCTGCCGGCGGTCAGCGCAGGC
ACCGGCCTCCTCTCGCTGTCCGCTGGGTTCCAGGCCACCTCTCCAAGGAAGACAAG
AACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAG
```

Clone variation with respect to NM_001130.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001130 unedited
 TAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCGATCGGCGCCGGGACAA
 AGGCGCGGCCGCCCGCGCCAGCAGCCGAGCCGGGGCGCACAGCCGGGGCGCAGCC
 CGCGCCCCCGCCGCGATTGACATGATGTTCCACAAAGCAGGCATTCGGGCTCCTCGCA
 CCTACCCAGCAACTCAAATTCACCACCTCGGACTCCTGCGACCGCATCAAAGACGAATT
 TCAGTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTTGGCCAGTGA
 GAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACAT
 CGAGATGCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCAGTCCCT
 GCCCTACCTCTCCCAAGAGCACCAGCAGAGGTCTTGGGAGCCATTGAGAGGGCCAAAGCA
 GGTCAACGCTCCCGAGCTGAACTCTATCATCCGACAGCAGCTCCAAGCCACCAGCTGTC
 CCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCACTACCCGTGGGGTGCAGCCGCTTC
 GCTGCCGGCGGTGAGCGCAGGCACCGCCCTNCTCTCGCTGTCCGCGCTGGGTTCCAGGC
 CCACCTCTCCAGGGAGACAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCG
 AGAAAGTCGATTANCAAGNGGCCGACGGNGAGGGTTGGAGGGNGACCAGAGGGANAC
 AGAGGCACNGAGAGAAAAGGATGTTTATCACAAGACACAGCGGAGCTCGGGGATGGNCTA
 ACTCCATAGTATTATGGTGGCCNCGCGNNGCCCCAGCCAGCTTGAAGCCACTNT
 AGCTTTNTTNNCTACCCATACGNNNTTCTTCTCCTCCNTGCAGNCTGGNTATGTGG
 ATACCTGCCCTGACTGGTTGAGCAAGCTAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001130 unedited
 CGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACT
 TCTCACATCTTTATTGGAAGGCACAGTAAGCCACCCTTGATACAGCATTTTCCACTT
 CTCTCTGTAGAGATCAGACGATTGAACACGAGATAAGCTGACTATATACAGACACAGGTG
 TGGGTGTGCTTTTTTTTAAAAACTTTTTGGCTTTTTTTTTTTTTTAAATATCCCTTTCT
 TAAAAGACAAGCTAGTATACTGGAAAAAGAAAAAATAATAATAAAATAAAAACCAAGAC
 AACTTTAGTACCCTCATCTTTATTTGGGAAGGGGAGGGGAATCCTGGGTGCGCCACCCT
 TACCCTGGTCTCCAGCTCAGCTAAGCTCGTCCCTCGTCCCCCCTTTTGTGGCGAT
 GGGAAAGGACCAGGTGGGCGTGGAGGTGTCTGGAATAACAAAGTGGTGAAGTGGGGCAA
 GTGGAGGTGGGAGCATACCTGGGACCGGGTGGGGGAGACTCGGGTGGCCAGGACGG
 GAAAGGGGACAGTACATTGCGTGCATGCAGTACCAGGGTGAAGGGCTGTGGCCAGGAG
 AGACTGTCGGTTACACATGTTCAAACCGGGGAAGGGCCGGGGCTGCTGCCCTTCCGAG
 GTCTTGCTCCCTTGGGACCTGGTCTCCATCTGACCTCCAGGCCTTAGCTTGCCTCACA
 CGTCAGGGCAGGTATCCACCTAACGNNCTGCAGGGGAGGAGGGAANCCCGGATGGGG
 TANGAAAAGCTANAGTGGCCTGCAACTGGCTGGGGCCCCCGCGGCCATAATACTTG
 GGATTATCCATCCGACTCGTGGTCTGGCTAAATTCTCTTCCGCGCCGGTCCCCCTTGC
 CCCCTTCAACTCCGGTCCGCCCTGTATACGATTCGCTATCCCTGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001130

Insert Size:

1650 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).

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_001130.5 , NP_001121.2
RefSeq Size:	1687 bp
RefSeq ORF:	594 bp
Locus ID:	166
UniProt ID:	Q08117
Cytogenetics:	19p13.3
Domains:	TLE_N
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is similar in sequence to the amino terminus of Drosophila enhancer of split groucho, a protein involved in neurogenesis during embryonic development. The encoded protein, which belongs to the groucho/TLE family of proteins, can function as a homooligomer or as a heterooligomer with other family members to dominantly repress the expression of other family member genes. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct N-terminus compared to isoform a.</p>