

## Product datasheet for RC217378

### Amino terminal enhancer of split (AES) (NM\_198969) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amino terminal enhancer of split (AES) (NM_198969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amino terminal enhancer of split
Synonyms:	AES; AES-1; AES-2; ESP1; GRG; Grg-5; GRG5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217378 representing NM_198969 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTCACAAGAATGGCTTCCCTCAGGAAGGCGGCATTACCGCTGCCTTTCTGCAGAAAAGGAACTAA  
GGCTCAGCAAGAACCACCGCCAGCCAGAGCCAAGGTCACAGAGCACGTCCGTGGCACGCGTCCAGGTCCG  
TGCCACAGCAGGGCCGGCGCTTCGACGCGGGCAGCCGGTCCCTTTTCTTGACAGATGGGAAACCGA  
GGCCCGCGCGGTGCCGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTCCTGCC  
ACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT  
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCTACGGCTTGAACATC  
GAGATGCACAAACAGGCTGAGATCGTCAAAGGCTGAACGGGATTTGTGCCAGGTCTGCCCTACCTCT  
CCCAAGAGCACCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTACCGCTCCCGAGCTGAA  
CTCTATCATCCGACAGCAGCTCCAAGCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACC  
CCACTACCGTGGGGCTGCAGCCGCCTTCGCTGCCGGCGGTACGCGCAGGCACCGGCTCCTCTCGCTGT  
CCGCGCTGGGTTCCAGGCCACCTCTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGA  
GGATGATGGCGAGAAGTCGGAT

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC217378 representing NM\_198969  
 Red=Cloning site Green=Tags(s)

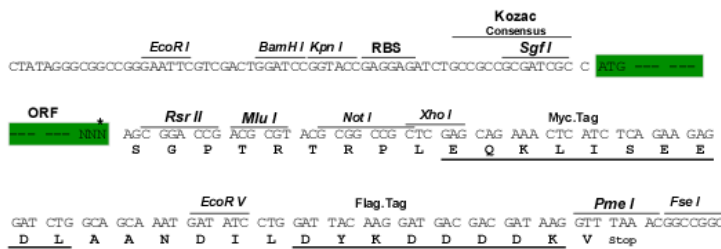
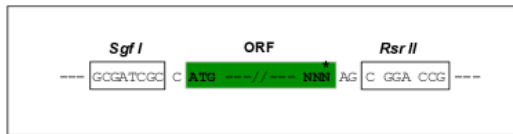
MCHKNGFPQEGGITA AFLQKRKRLRLSKNHRPARAKVTEHVRGTRPGRATAGPAASTRAAGSLFFDRWGNR  
 GPAGCRGSSHL PQQLKFTTSDSCDRIKDEFQLLQAQYHSLKLECDKLA SEKSEMQRHYV MYE MSYGLNI  
 EMHKQAEIVKRLNGIC AQVLPYLSQEHQQQV LGAIERAKQVTAPELNSIIRQQLQAHQLSQLQALALPLT  
 PLPVGLQPPSLPAVSAGTGLLSLSALGSQAHL SKEDKNGHGDGTHQEDDGEKSD

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_198969

**ORF Size:** 792 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_198969.1](#), [NP\\_945320.1](#)

**RefSeq Size:** 1754 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 166

**UniProt ID:** [Q08117](#)

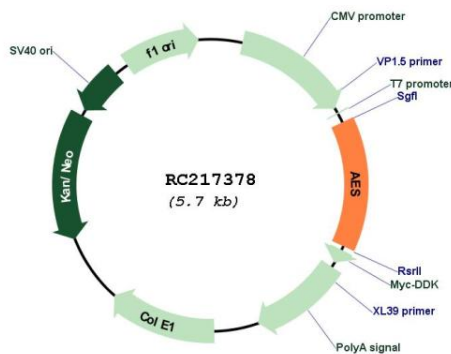
**Cytogenetics:** 19p13.3

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 28.9 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RC217378