

Product datasheet for **RG233195**

AP4E1 (NM_001252127) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AP4E1 (NM_001252127) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AP4E1
Synonyms: CPSQ4; SPG51; STUT1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233195 representing NM_001252127
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAAGGAATGTATGGTGAGACTTATATATTGTGAAATGCTTGATATGATGCTTCCTTTGGCTATA
TTCATGCAATCAAGTTAGCCCAACAAGGAAACCTTTAGAAAAAGAGTAGGTTATTTGGCTGTTTCCTT
ATTTCTACATGAAAGTCATGAATTATTGCTTTCCTTGTGAATACAGTTGTAAGGATCTGCAGAGCACT
AACCTAGTAGAAGTGTGTATGGCACTGACTGTTGTTAGCCAGATTTCCCTGCGAAATGATTCCAGCTG
TTCTTCCATTAATAGAAGATAAACTTCAACATTCTAAGGAGATTGTACGAAGAAAAGCTGTTCTGGCATT
ATACAAATTCATCTCATTGCTCCTAATCAAGTACAACATATTCATATTAAGTTTCGGAAAAGCACTTTGT
GACAGAGATGTTGGGGTCATGGCTGCCTCCTTGCATATATATCTTAGAATGATTAAGGAGAATTCATCTG
GATATAAAGACTTGACTGGGAGTTTTGTAACCATTTTTGAAGCAAGTAGTTGGAGGAAAAGCTCCCAGTAGA
ATTCAATTACCACAGTGTGCCAGCACCATTGTTACAAATTCAGCTCTTGAGAATACTGGGACTTCTAGGA
AAAGATGATCAAAGGACAAGTGAATTAATGTATGATGTTCTTGATGAATCCTTACGAAGAGCTGAGTTAA
ATCACAATGTCACATATGCTATTTTGTGTAATGTGTGCATACAGTCTATTCTATTTATCCTAAATCGGA
ATTACTTGAGAAGGCTGCCAAGTGCATTGGAAAATTTGTTCTGTACCTAAAATAAATCTAAAATATTTA
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TGACAGAAATATAACAGTTATTGTCCAGAAAATGCTTGAATATTTACATCAGAGCAAAGAAGAGTATGTC
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AGACAATGAATGCTGTGTTTTAGTAGGAGGAGATGTAATGCATCCTGATATCCCAATAACTTTCTGAG
ACTACTAGCGGAAGGTTTTGATGATGAAACAGAAGATCAGCAATTAAGACTCTATGCAGTTCAGTCTTAT
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CACTCTTCTAATACAGTTGAGAGATTAATCCATGAATTTACCATATCTTTGGATACTTGTATGAGACAAC
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 TTTTCTCTCACTCAGAAGCTTTGGATTCTGAGTCACTCACAGAAGTCCCTTGGTTGAGAAATTCAT
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 GCATTGCCGAGTTCATGCAGATGTATTAGCCCTGTGGTTCAGATCCTCCTGTTCTACTCTCTGACTAT
 TACTGTATCAGTGTCAAAGGTGATGGAGGGATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG233195 representing NM_001252127
 Red=Cloning site Green=Tags(s)

MMKECMVRLIYCEMLGYDASFGYIHAIKLAQQGNLLEKRVGYLAVSLFLHESHELLLLLNTVVKDLQST
 NLVEVCMALTVVSQIFPCEMIPAVLPLIEDKLQHSKEIVRRKAVLALYKFHLIAPNQVQHIIHKFRKALC
 DRDVGVMASLHIYLRMIKENSSGYKDLTGSFVTILKQVVGKLPVEFNYSVPAPWLQIQLLRILGLLG
 KDDQRTSELMYDVLDESLRRAELNHNVTYAILFECVHTVYSIYPKSELLEKAAKIGKFVLSPKINLKYL
 GLKALTYVIQQDPTLALQHOMTIIIECLDHPDPIIKRETLELLYRITNAQNITVIVQKMLEYLHQSKEEYV
 IVNLVGLIAELAEKYAPDNAWF IQTMNAVFSVGGDVMHPDIPNNFLRLLAEGFDDTEDDQLRLYAVQSY
 LTLDMENVFYPQRFLQVMSWVLGEYSYLLDKETPEEVI AKLYKLLMNDVSSETKAWLIAAVTKLTSQA
 HSSNTVERLIHEFTISLDTCMRQHAFELKHLHENVELMKSLLPVDRSCEDLVVDASLSFLDGFVAEGLSQ
 GAAPYKPPHQREQEELSQEKVLFNFPYGLSFSSSGFTGRQSPAGISLGSVSGNSAETGLKETNSLKLEG
 IKKLWKGEGYLPKKESTGDESGALPVPQESIMENVDAITTKDQSQVLQSKKEEKQLLASSLQVGLG
 SESTINLLGKADTVSHKFRKSKVKEAKSGETTSTHNMTCSFSSL SNVAYEDDYSNLHDTGDKELKK
 FSLTSELLDSESLTELPLVEKFSYCSLSTPSL FANNMEIFHPPQSTAASVAKESSLASSFLEETTEYIH
 SNAMEVCNNETISVSSYKIWKDDCLLMVSVTNKSGLELKSADLEIFPAENFKVTEQPGCCLPVMEAE
 KSFQYSVQIEKPFTEGNLTGFI SYHMDTHSAQLEFSVNL SLLDFIRPLKISSDDFGKWL SFANDVKQN
 VKMSESQAALPSALKTLQKLRHLHIEIIGNEGLLACQLLPSIPCLLHCRVHADVLALWFRSSCSTLPDY
 LLYQCQKVMEGS

TRTRPLE – GFP Tag – V

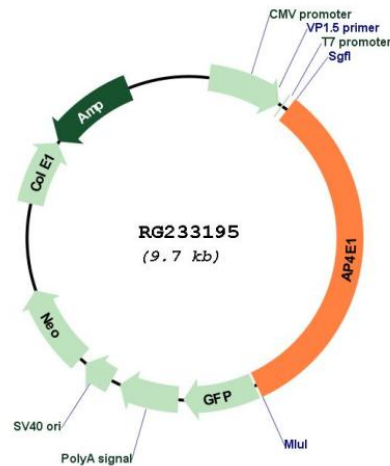
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252127

ORF Size: 3186 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:	<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_001252127.2
RefSeq Size:	6791 bp
RefSeq ORF:	3189 bp
Locus ID:	23431
UniProt ID:	Q9UPM8
Cytogenetics:	15q21.2
Protein Pathways:	Lysosome
Gene Summary:	<p>This gene encodes a member of the adaptor complexes large subunit protein family. These proteins are components of the heterotetrameric adaptor protein complexes, which play important roles in the secretory and endocytic pathways by mediating vesicle formation and sorting of integral membrane proteins. The encoded protein is a large subunit of adaptor protein complex-4, which is associated with both clathrin- and nonclathrin-coated vesicles. Disruption of this gene may be associated with cerebral palsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]</p>