

Product datasheet for RC236177

AP1S2 (NM_001272071) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AP1S2 (NM_001272071) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AP1S2
Synonyms: DC22; MRX59; MRXS5; MRXS21; MRXSF; PGS; SIGMA1B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236177 representing NM_001272071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTTTATGTTGCTTTTTAGTCGTCAGGGAAAGCTTCGACTGCAAAAATGGTATGTCCCACTATCAG
 ACAAGAGAAGAAAAGATCACAAGAGAACTTGTTCAGACCGTTTTAGCACGGAAACCTAAAATGTGCAG
 CTTCTTGAGTGGCGAGATCTGAAGATTGTTTACAAAAGATATGCTAGTCTGTATTTTTGCTGTGCTATT
 GAGGATCAGGACAATGAACTAATTACCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAAGTATT
 TCGGCAGTGTCTGTGAAGTAGATATCATCTTTAATTTTGAAGGCTTATTTTATTTGGATGAGTTTCT
 TTTGGGAGGGGAAGTTCAGGAAACATCCAAGAAAATGTCCTTAAAGCAATTGAGCAGGCTGATCTACTG
 CAGGAGGATGCGAAAGAAGCTGAAACCCACGTAGTGTCTTGAAGAAATTGGACTGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236177 representing NM_001272071
 Red=Cloning site Green=Tags(s)

MQFMLLFSRQGLRLQKWWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWRDLKIVYKRYASLYFCCAI
 EDQDNELITLIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSKKNVLKAI EQADLL
 QEDAKEAETPRSVLEEIGLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

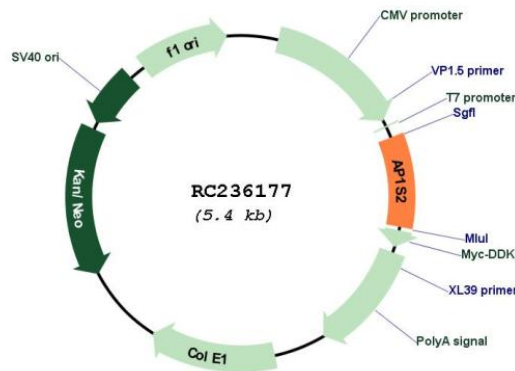
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001272071

ORF Size: 480 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:	<u>NM_001272071.2</u>
RefSeq Size:	2329 bp
RefSeq ORF:	483 bp
Locus ID:	8905
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome
MW:	19.4 kDa
Gene Summary:	Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. This complex is a heterotetramer composed of two large, one medium, and one small adaptin subunit. The protein encoded by this gene serves as the small subunit of this complex and is a member of the adaptin protein family. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013]