

## Product datasheet for **RC212287**

### AP2 alpha (AP2A1) (NM\_130787) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 alpha (AP2A1) (NM_130787) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP2 alpha
Synonyms:	ADTAA; AP2-ALPHA; CLAPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212287 representing NM\_130787  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGCCGTGTCCAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGA  
 AGAGCAAAGAGGGCGAAATTAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTCAAAGGAGA  
 CAAAGCCTTGGATGGCTACAGTAAGAAAAATATGTGTGTAAGTCTTTTCATCTTCTGCTTGGCCAT  
 GACATTGACTTTGGGCACATGGAGGCTGTGAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAG  
 GTTACCTGTTTCTGTGCTGGTGAAGTCTGAACTCGGAGCTGATCCGCCTCATCAACAACGCCATCAA  
 GAATGACCTGGCCAGCCCAACCCACCTTCATGTGCCTGGCCCTGCACTGCATCGCCAACGTGGGCAGC  
 CGGGAGATGGGCGAGGCCCTTGGCCGTGACATCCCCCGCATCCTGGTGGCCGGGACAGCATGGACAGTG  
 TCAAGCAGAGTGGGCCCTGTGCCTCCTTCGACTGTACAAGGCCCTGCCTGACCTGGTGGCCATGGGCGA  
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 CTCGGTGAAGCTCCTGCGGCTGTGCAAGTGTACCCCGCTCCAGAGGATGCGGCTGTGAAGGGGCGGCTG  
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 ACGCAAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAACCTCCT  
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 GAGAGCATGTGCACGCTGGCCAGCTCCGAGTTCCTCCATGAAGCCGTCAAGACGCACATTGACACCGTCA  
 TCAATGCCCTCAAGACGGAGCGGAGCTCAGCGTGCAGCAGCGGGCGGCTGACCTCCTCTACGCCATGTG  
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 GATCGTACCAACCGTGTGACGTCCAGGGCTATGCCGCAAGACCGTCTTTGAGGCGCTCCAGGCCCT  
 GCCTGTACAGAGAATGGTGAAGTTGGCGGCTACATCCTTGGGGAGTTTGGGAACCTGATTGCTGGGG  
 ACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTTCATCTGTGCAGCGTGGCCAC  
 GCGGGCGTGTGCTGTCCACCTACATCAAGTTCATCAACCTCTTCCCGAGACCAAGGCCACCATCCAG  
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 TCAACCCTCAGCTCAGTGGCCAGCACCGAGTCCCTGGCCACGGTGTGGAGGAGATGCCGCCCTTCCCGA  
 GCGGAGTGTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGCCGGCAGCGCCCTGGACGAT  
 GGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGGATGGAGCCACCCAGCACTGTGTGACGC  
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 AGCAGGGAACCTTCTGGTGGACGTCTTCGATGGCCCGCCGCCCAGCCAGCCAGCTGGGGCCACCCCGAG  
 GAGGCTTCTCAGCCAGGTCTGAGGACATCGGCCCTCCATTCGGAAGCCGATGAGTTGTGAATA  
 AGTTTGTGTGAAGAACAACGGGTCTGTTTCGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAAGATT  
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 TGGACGGCGCGCAGGTGCAGCAGGTGCTCAATATCGAGTGCCTGCGGACTTCTGACGCCCCCGCT  
 GCTGTCCGTGCGTTCGGTACGGTGGCGCCCCCAGGCCCTCACCTGAAGCTCCAGTACCATCAAC  
 AAGTTCTCCAGCCACCGAGATGGCGGCCAGGATTTCTCCAGCGCTGGAAGCAGCTGAGCTCCCTC  
 AACAGGAGGCGCAGAAAATCTTCAAAGCCAACCCCATGGACGCAGAAGTTACTAAGGCCAAGCTTCT  
 GGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCGTGGGGCGGGGATCATC  
 CAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCCGCTGGAGCCCAATGCCAGGCCAGATGTACCGGC  
 TGACCCTGCGCACCAAGGAGCCGCTCCCGTACCTGTGTGAGCTGCTGGCACAGCAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212287 representing NM\_130787  
 Red=Cloning site Green=Tags(s)

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGH  
 DIDFGHMEAVNLLSSNKYTEKQIGYLFISVLVNSNELIRLINNAIKNDLASRNPFTMCLALHCIANVGS  
 REMGEAFAADIPRILVAGDSMDSVKQSAALCLLRLYKASPDLVPMGEWTARVVHLLNDQHMGVVTAASL  
 ITCLCKKNPDDFKTCVSLAVSRLSRIVSSASTDLQDYTYFVPAPWLSVKLLRLLQCYPPEAIVKGRLL  
 VECLLETVLNKAQEPKSKVQHSNAKNAILFETISLIHVDSEPNLLVRACNLGQFLQHRETNLRYLAL  
 ESMCTLASSEFSHEAVKTHIDTVINALKTERDVSVRQRAADLLYAMCDRSTNAKQIVSEMLRYLETADYAI  
 REEIVLVKVAILAEKYAVDYSWYVDITLNLIRIAGDYVSEEVWYRVLQIVTNRDDVQGYAAKTVFEALQAP  
 ACHENMVKVGGYILGEFGNLIAGDPRSSPPVQFSLHSHKFLCSVATRALLLSTYIKFINLFPETKATIQ  
 GVLRAGSQLRNADVLELQRAVEYLLSSVASTDVLATVLEEMPPFPERESSILAKLKRKKGPGAGSALDD  
 GRRDPSSNDINGMEPTPSTVSTSPSADLLGLRAAPPAAPPASAGAGNLLVDVFDGPAAPSLGPTPE  
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 PTVVHPGDLQTLAVQTKRVAQVDGGAQVQVLNIECLRDFTPLLSVRFYRGAPQALTLKLPVTIN  
 KFFQPTEMAAQDFRQWQLSLPQQAQKIFKANHPMDAEVTKAKLLGFGSALLDNVDPNPNFVVGAGII  
 QTKALQVGCLLRLEPNAQAMRYLTLRTSKEPVSRLCELLAAQQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

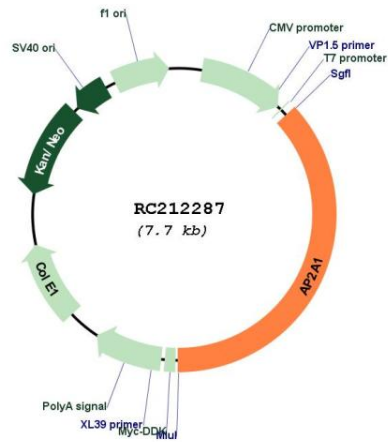


ACCN: NM\_130787

ORF Size: 2865 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130787.3</a>
<b>RefSeq Size:</b>	3433 bp
<b>RefSeq ORF:</b>	2868 bp
<b>Locus ID:</b>	160
<b>UniProt ID:</b>	<a href="#">O95782</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Pathways:</b>	Endocytosis, Huntington's disease
<b>MW:</b>	105.2 kDa
<b>Gene Summary:</b>	This gene encodes the alpha 1 adaptin subunit of the adaptor protein 2 (AP-2) complex found in clathrin coated vesicles. The AP-2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles which links clathrin to receptors in vesicles. Alternative splicing of this gene results in two transcript variants encoding two different isoforms. A third transcript variant has been described, but its full length nature has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212287