

Product datasheet for **RG212287**

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:	TurboGFP
Symbol:	AP2 alpha
Synonyms:	ADTAA; AP2-ALPHA; CLAPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212287 representing NM_130787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCGTGTCCAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGA
 AGAGCAAAGAGGGCGAAATTAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTCAAAGGAGA
 CAAAGCCTTGGATGGCTACAGTAAGAAAAATATGTGTGTAAACTGCTTTTCATCTTCTGCTTGGCCAT
 GACATTGACTTTGGGCACATGGAGGCTGTGAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAG
 GTTACCTGTTCAATTTCTGTGCTGGTGAAGTCTGAACTCGGAGCTGATCCGCCTCATCAACAACGCCATCAA
 GAATGACCTGGCCAGCCCAACCCACCTTCATGTGCCTGGCCCTGCACTGCATCGCCAACGTGGGCAGC
 CGGGAGATGGGCGAGGCCCTTGGCCGTGACATCCCCGCATCCTGGTGGCCGGGACAGCATGGACAGTG
 TCAAGCAGAGTGGGCCCTGTGCCTCCTCGACTGTACAAGGCCCTGCCTGACCTGGTGGCCATGGGCGA
 GTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTACGCGCCCGCTCAGCCTC
 ATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGTGTGCGCCCTGA
 GCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTACTTCGTCACAGCACCTGGCT
 CTCGGTGAAGCTCCTGCGGCTGTGCAAGTACCCGCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCTG
 GTGGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAATCCAAGAAGGTGCAGCATTCCA
 ACGCAAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAACCTCCT
 GGTTGGGCTGCAACCAGCTGGGCCAGTTCCTGCAGCACCAGGAGCAACCTGCGCTACCTGGCCCTG
 GAGAGCATGTGCACGCTGGCCAGCTCCGAGTTCCTCCATGAAGCCGTCAAGACGCACATTGACACCGTCA
 TCAATGCCCTCAAGACGGAGCGGAGCTCAGCGTGCAGCAGCGGGCGGCTGACCTCCTCTACGCCATGTG
 TGACCGGAGCAATGCCAAGCAGATCGTGTGCGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATC
 CGCGAGGAGATCGTCTGAAGGTGGCCATCCTGGCCGAGAAGTACGCGGTGGACTACAGCTGGTACGTGG
 ACACCATCCTCAACCTCATCCGATTGCGGGGACTACGTGAGTGAGGAGGTGTGGTACCGTGTGTACATA
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 GCCTGTCACGAGAACATGGTGAAGTTGGCGGCTACATCCTTGGGGAGTTTGGGAACCTGATTGCTGGGG
 ACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTTCATCTGTGCAGCGTGGCCAC
 GCGGGCGTGTGCTGTCCACCTACATCAAGTTCATCAACCTCTCCCGAGACCAAGGCCACCATCCAG
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 GCGGAGTGTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGAGCGCCCTGGACGAT
 GGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGGATGGAGCCACCCAGCACTGTGTGACGC
 CCTCGCCCTCCGCGACCTCCTGGGGTGTGCGGGCAGCCCTCCCGGCGAGCACCCCGGCTTCTGCAGG
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 GAGGCTTCTCAGCCAGGTCTGAGGACATCGGCCCTCCATTCGGAAGCCGATGAGTTGTGAATA
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 TGGACGGCGCGCAGGTGCAGCAGGTGCTCAATATCGAGTGCCTGCGGACTTCTGACGCCCCCGCT
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 AAGTTCTCCAGCCACCAGATGGCGGCCAGGATTTCTCCAGCGCTGGAAGCAGCTGAGCCTCCCTC
 AACAGGAGGCGCAGAAAATCTTCAAAGCCAACCCCATGGACGCAGAAGTTACTAAGGCCAAGCTTCT
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 CAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCCGCTGGAGCCCAATGCCAGGCCAGATGTACCGGC
 TGACCCTGCGCACCAAGGAGCCGCTCCCGTACCTGTGTGAGCTGCTGGCACAGCAGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG212287 representing NM_130787
Red=Cloning site Green=Tags(s)

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGH
 DIDFGHMEAVNLLSSNKYTEKQIGYLFISVLVNSNELIRLINNAIKNDLASRNPTFMCLALHCIANVGS
 REMGEAFAADIPRILVAGDSMDSVKQSAALCLLRLYKASPDLVPMGEWTARVVHLLNDQHMVVTAAVSL
 ITCLCKKNPDDFKTCVSLAVSRLSRIVSSASTDLQDYTYFVFPAPWLSVKLLRLLQCYPPEDAAVKGR
 VECLLETVLNKAQEPKSKVQHSNAKNAILFETISLIHVDSEPNLLVRACNQLGQFLQHRETNLRYLAL
 ESMCTLASSEFSHEAVKTHIDTVINALKTERDVSVRQRAADLLYAMCDRSNAKQIVSEMLRYLETADYAI
 REEIVLKVAILAEKYAVDYSWYVDITLNLIRIAGDYVSEEVWYRVLQIVTNRDDVQGYAAKTVFEALQAP
 ACHENMVKVGYYILGEFNLIAGDPRSSPPVQFSLHHSKFHLCSVATRALLLSTYIKFINLFPETKATIQ
 GVLRAGSQLRNADVELQQRAVEYLTSSVASTDVLATVLEEMPPFPERESSILAKLKRKKGPGAGSALDD
 GRRDPSSNDINGMEPTPSTVSTSPSADLLGLRAAPPAAPPASAGAGNLLVDVFDGPAAPSLGPTPE
 EAF LSPGPEDIGPPIPEADELLNKFVCKNNGVL FENQLLQIGVKSEFRQNLGRMYLFYGNKTSVQFQNF
 SPTVVHPGDLQTLAVQTKRVAQVDGGAQVQVLNIECLRDFLTPPLL SVRFYGGAPQALTLKLPVTIN
 KFFQPTEMAAQDFRQWKQLSLPQQAQKIFKANHPMDAEVTKAKLLGFGSALLDNVDPNPNFVGGAGII
 QTKALQVGCLLRLEPNAQAMRYLTLRTSKEPVSRLCELLAQF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

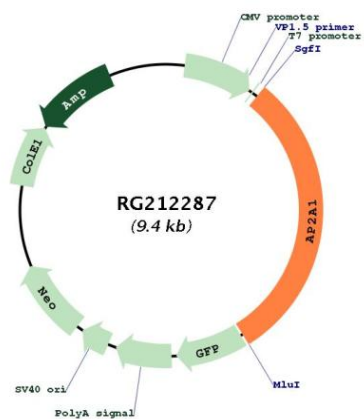


ACCN: NM_130787

ORF Size: 2865 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_130787.3
RefSeq Size:	3433 bp
RefSeq ORF:	2868 bp
Locus ID:	160
UniProt ID:	O95782
Cytogenetics:	19q13.33
Protein Pathways:	Endocytosis, Huntington's disease
Gene Summary:	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 RG212287