

Product datasheet for **RG235060**

alpha Adaptin (AP2A2) (NM_001242837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adaptin (AP2A2) (NM_001242837) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	alpha Adaptin
Synonyms:	ADTAB; CLAPA2; HIP-9; HIP9; HYPJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG235060 representing NM_001242837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCTGTCCAAGGGGGACGGGATGCGGGGCTGGCGGTCTTCATCTCGGATATCCGCAACTGTA
 AAAGTAAAGAAGCAGAAATAAAAAGGATAAACAAGGAAGTGGCAATATCAGATCAAATTTAAAGGTGA
 CAAGGCTCTTGATGGCTATAGTAAAAAAGTACGTCTGCAAGTTGCTCTTCATCTTTCTCCTTGTCAT
 GACATTGACTTTGGACACATGGAGGCTGTGAACCTGCTGAGTTCAAACAGATACACGAAAAAGCAGATCG
 GCTACCTTTTCATCTCTGTGTTGGTGAACCTCAAACAGTGAAGTATCCGCTGATCAACAACGCCATCAA
 GAATGACCTGGCCAGCCCAACCCACCTTCATGGGCCTGGCCCTGCACTGCATCGCCAGCGTGGGCAGC
 CGGGAGATGGCCGAGGCTTCGCCGGGAGATCCCTAAGTCTCGTAGCCGGAGACACTATGGACAGCG
 TGAAGCAGAGCGCGCCCTGTGCTTGTGCGCCTGTACAGGACGTCCCCGATCTTGTCCCATGGCGCA
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 GCAGAATCGTGACGTCTGCATCCACAGATCTCCAGGATTACACTTACTATTTTGTCCCGGCTCCCTGGCT
 GTCTGTCAAAGTCTGAGACTGCTGCAGTGTACCCACCCCAAGAAGACCTGCAGTGCAGAGCCGCTG
 ACTGAGTGCTGGAGACCATCTGAACAAAGCCCAAGAACCGCCCAAGTGAAGAAGGTCCAGCACTCCA
 ACGCGAAGAATGCCGTGCTCTTCGAGGCCATCAGCTTAATCATTACCATGACAGTGAGCCGAACCTGCT
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 CCGCGCGTCTCTGTCCACCTACATCAAGTTCGTGAACCTCTCCCGAGGTGAAGCCCACCATCCAG
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 GAATTTCTGTTGGAGCTGGAATCATCCACACGAAAACCCAGATTGGATGCCTGCTGCGCTGGAGCCG
 AACCTGCAAGCCAGATGTACCGGCTCACGCTGCGCACAAGTAAGGAAGCCGTTTCTCAGAGATTATGTG
 AATTGCTCTCAGCGCAGTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235060 representing NM_001242837
 Red=Cloning site Green=Tags(s)

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGH
 DIDFGHMEAVNLLSSNRYTEKQIGYLFISVLVNSNSELIRLINNAIKNDLASRNPTFMGLALHCIASVGS
 REMAEAFAGEIPKVLVAGDTMDSVKQSAALCLLRLRYTSPDLVPMGDWTSRVVHLLNDQHLGVVTAATSL
 ITTLAQKNPEEFKTSVSLAVSRLSRIVTSASTDLQDYTYFVFPAPWLSVKLLRLLQCYPPEPDAVRGR
 TECLLETILNKAQEPPKSKVQHSNAKNAVLFEATSLIIHHDSEPNLLVRACNQLGQFLQHRETNLRYLAL
 ESMCTLASSEFSHEAVKTHIETVINALKTERDVSVRQRAVDLLYAMCDRSNAPQIWAEMLSYLETADYSI
 REEIVLKVAILAEKYAVDVTWYVDITLNLIRIAGDYVSEEVWYRVIQIVINRDDVQGYAAKTVFEALQAP
 ACHENLVKVGYYILGEGNLIAGDPRSSPLIQFHLLHSKFHLCVPTRALLLSTYIKFVNLFPVKPTIQ
 DVLRSDSQLRNADVELQQRAVEYLRSTVASTDILATVLEEMPPFPERESSILAKLKKKKGSTVTDLED
 TKRDRSDVNGGPEPAPASTSAVSTPSPADLLGLGAAPPAPAGPPPSSGGSGLLVDVFSASVAVPLA
 PGSEDNFARFVCKNNGVLFENQLLQIGLKSEFRQNLGRMFIYGNKTSTQFLNFTPTLICSSDLQPNLNL
 QTKPVDPTVEGGAQVQVNIIECVSDFTEAPVLNIQFRYGGTFQNVSVQLPITLKNKFFQPTEMASQDFQ
 RWKQLSNPQQEVQNIKAKHPMDTEVTAKIIGFGSALLEEVDPNPANFVGAGIIHTKTTQIGCLLRLEP
 NLQAQMYRLTLRTSKEAVSQRLCELLSAQF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

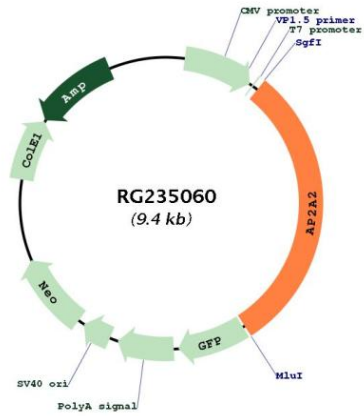


ACCN: NM_001242837

ORF Size: 2820 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_001242837.1 , NP_001229766.1
RefSeq Size:	4674 bp
RefSeq ORF:	2823 bp
Locus ID:	161
UniProt ID:	O94973
Cytogenetics:	11p15.5
Protein Pathways:	Endocytosis, Huntington's disease
Gene Summary:	The protein encoded by this gene is a subunit of the AP-2 adaptor protein complex, which is involved in linking lipid and protein membrane components with the clathrin lattice. This interaction supports the formation of clathrin-coated vesicles, and the encoded subunit aids in the process by binding polyphosphoinositide-containing lipids in the cell membrane. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RG235060