

Product datasheet for **RG203018**

alpha Adaptin (AP2A2) (NM_012305) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Adaptin (AP2A2) (NM_012305) 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:

>RG203018 representing NM_012305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGCCTGTCCAAGGGGACGGGATGCGGGGCTGGCGGTCTTCATCTCGGATATCCGCAACTGTA
 AAAGTAAAGAAGCAGAAATAAAAAGGATAAACAAGGAACCTGGCAATATCAGATCAAATTTAAAGGTGA
 CAAGGCTCTTGATGGCTATAGTAAAAAAGTACGTCTGCAAGTTGCTCTTCATCTTTCTCCTTGTCAT
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 GAATGACCTGGCCAGCCCAACCCACCTTCATGGGCCTGGCCCTGCACTGCATCGCCAGCGTGGGCAGC
 CGGGAGATGGCCGAGGCTTCGCCGGGAGATCCCTAAGTCTCGTAGCCGGAGACACTATGGACAGCG
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 GAGTGCCTGGAGACCATCCTGAACAAAGCCCAAGAACCAGCCCAAGTGAAGAAGTCCAGCACTCCAACG
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 ACGCCCTGAAGACTGAGCGGGAGCTGAGCGTGCAGCAGCGGGCCGTGGACCTCTACGCCATGTGCGA
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 GGAGTCTCCATCTTGGCAAAGCTCAAGAAGAAGAAGGGCCCCAGCACGGTGCAGACCTGGAGGACACC
 AAGCGGGACAGGAGTGTGGACGTGAACGGGGTCTGAGCCTGCCCCAGCCAGTACCAGCGCCGTGTCTA
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 CACGAGTTCCTAACTTTACCCCAACACTAATCTGTTTACAGACGACCTTCAGCCTAACCTGAACCTGCAG
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 AAGTCAACAAAGCAAGATCATTGGATTTGTTTCTGCACTTCTTGAAGAAGTTGATCCTAATCCTGCGAA
 TTTCTGGGAGTGAATCATCCACACGAAAACCCAGATTGGATGCCTGCTGCGCTTGGAGCCGAAC
 CTGCAAGCCAGATGTACCGGCTCAGCTGCGCACAAGTAAGGAAGCCGTTTCTCAGAGATTATGTGAAT
 TGCTCTCAGCGCAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203018 representing NM_012305
 Red=Cloning site Green=Tags(s)

MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGH
 DIDFGHMEAVNLLSSNRYTEKQIGYLFISVLVNSNSELIRLINNAIKNDLASRNPTFMGLALHCIASVGS
 REMAEAFAGEIPKVLVAGDTMDSVKQSAALCLLRLRYTSPDLVPMGDWTSRVVHLLNDQHLGVVTAATSL
 ITTLAQKNPEEFKTSVSLAVSRLSRIVTSASTDLQDYTYFVFPAPWLSVKLLRLLQCYPDPDPVAVRGRLT
 ECLETILNKAQEPKSKKVQHSNAKNAVLFEAISLIHHHDEPNLLVRACNQLGQFLQHRETNLRYLALE
 SMCTLASSEFSHEAVKTHIETVINALKTERDVSVRQRAVDLLYAMCDRSNAPQIVAEMLSYLETADYSIR
 EEIVLKVAILAKEYAVDYTWYVDITLNLIRIAGDYVSEEVWYRVIQIVINRDDVQGYAAKTVFEALQAPA
 CHENLVKVGYYILGEFGNLIAGDPRSSPLIQFHLLHSKFHLCSVPTRALLLSTYIKFVNLFPEVKPTIQD
 VLRSDSQLRNADVELQRAVEYLRLSTVASTDILATVLEEMPPPERESSILAKLKKKGPSTVTDLEDT
 KRDRSVDVNGGPEPAPASTSAVSTSPSADLLGLGAAPPAPAGPPPSSGGGGLLVDVFSASVVAFLAP
 GSEDNFAFVCKNNGVL FENQLLQIGLKSEFRQNLGRMFI FYGNKTSQFLNFTPTLICSDDLQPNLNLQ
 TKPVDPTVEGGAQVQVNIIECVSDFTEAPVLNIQFRYGGTFQNVSVQLPITLKNKFFQPTEMASQDFFQR
 WKQLSNPQQEVQNI FAKAKHPMDTEVTKAKIIGFGSALLEEVDPNPANFVAGAGIIHTKTTQIGCLLRLEPN
 LQAQMYRLTLRTSKEAVSQRLCELLSAQF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

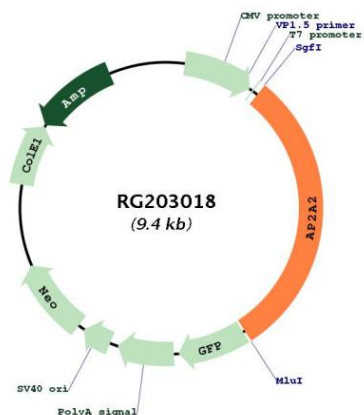


ACCN: NM_012305

ORF Size: 2817 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_012305.4
RefSeq Size:	4616 bp
RefSeq ORF:	2820 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 RG203018