

Product datasheet for **RG234303**

ATP5A (ATP5A1) (NM_001001935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5A (ATP5A1) (NM_001001935) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP5A
Synonyms:	ATP5A; ATP5A1; ATP5AL2; ATPM; COXPD22; hATP1; HEL-S-123m; MC5DN4; MOM2; OMR; ORM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234303 representing NM_001001935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCTATTCTGAAGAGCGTATTCTGGAGCTGATACCTCTGTTGATCTTGAAGAACTGGGCGTG
 TCTTAAGTATTGGTGATGGTATTGCCCGGTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTAGA
 GTTTTCTTCAGGCTTAAAGGGTATGTCCTTGAACCTGGAACCTGACAATGTTGGTGTTCGCTGTTTGA
 AATGATAAACTAATTAAGGAAGGAGATATAGTGAAGAGGACAGGACCCATTGTGGACGTTCCAGTTGGTG
 AGGAGCTGTTGGTCTGTAGTTGATGCCCTTGGTAATGCTATTGATGGAAGGGTCCAATTGGTTCCAA
 GACGCGTAGGCGAGTTGGTCTGAAAGCCCCGGTATCATTCTCGAATTCAGTGCGGGAACCAATGCAG
 ACTGGCATTAAAGGCTGTGGATAGCTTGGTCCAAATGGTCTGGTCTGAGCGTGAACGATTATTGGTGACC
 GACAGACTGGGAAAACCTCAATTGCTATTGACACAATCATTAAACCAGAAACGTTTCAATGATGGATCTGA
 TGAAGAAGAAGCTGTACTGTATTTATGTTGCTATTGGTCAAAAGAGATCCACTGTTGCCAGTTGGTG
 AAGAGACTTACAGATGCAGATGCCATGAAGTACACCATTGTGGTGTGGCTACGGCTCGGATGCTGCC
 CACTTCAGTACCTGGCTCCTTACTCTGGCTGTTCCATGGGAGAGTATTTAGAGACAATGGCAAACATGC
 TTTGATCATCTATGACGACTTATCCAAACAGGCTGTTGCTTACCCTCAGATGTCTCTGTTGCTCCGCCGA
 CCCCTGGTCTGAGGCCATCCTGGTGTGTTCTACCTACACTCCCGGTTGCTGGAGAGAGCAGCCA
 AAATGAACGATGCTTTGGTGGTGGCTCCTTGACTGCTTTGCCAGTCATAGAAACACAGGCTGGTGTGT
 GTCTGCTTACATCCAAACAATGCTATTCCATCACTGACGGACAGATCTTCTGGAAACAGAATTGTTCC
 TACAAAGGTATCCGCCCTGCAATTAACGTTGGTCTGTCTGTATCTCGTGTGGATCCGCTGCCAAACCA
 GGGCTATGAAGCAGGTAGCAGGTACCATGAAGCTGGAATTGGCTCAGTATCGTGTGGATCCGCTGCTTTG
 CCAGTTCCGGTTCTGACCTCGATGCTGCCACTCAACAACCTTTGAGTCTGGGCTGCGTCTAACTGAGTTG
 CTGAAGCAAGGACAGTATTCTCCATGGCTATTGAAGAACAAGTGGCTGTTATCTATGCGGGTGAAGGG
 GATATCTTGATAAACTGGAGCCAGCAAGATTACAAAGTTGAGAATGCTTTCTGTCTCATGTCGTCAG
 CCAGCACCAAGCCTTGTGGGCACTATCAGGGCTGATGGAAGATCTCAGAAACAATCAGATGCAAAGCTG
 AAAGAGATTGTAACAATTTCTGGCTGGATTTGAAGCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

Protein Sequence:

>RG234303 representing NM_001001935
 Red=Cloning site Green=Tags(s)

MSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVF
 NDKLIKEGDIVKRTGAIVDVPVGEELLGRVVDALGNAIDGKGPISKTRRRVGLKAPGIIPRISVREPMQ
 TGIKAVDSLVPVIGRQRELIIGDRQTGKTSIAIDTIINQKRFNDGSEKLLYCIYVAIGQKRSTVAQLV
 KRLTDADAMKYTIIVVSATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIIYDDLKQAVAYRQMSLLRR
 PPGREAYPGDVLYLHSLRLLERAAMNDAFGGSLTALPVIETQAGDVSAYIPTNVISITDQIFLETFL
 YKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAQFGSDLDAATQQLSRGVRLTEL
 LKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQAALLGTIRADGKISEQSDAKL
 KEIVTNFLAGFEA

SGP**TRRRLE** – GFP Tag – V

Restriction Sites:

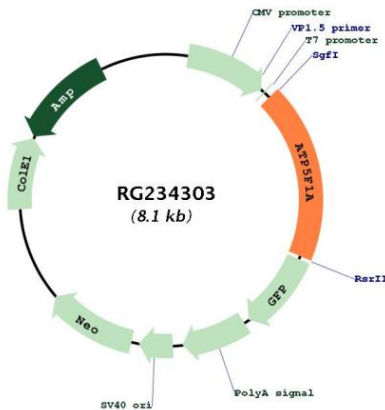
Sgfl-RsrII

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Gene Summary: This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F₁, and the membrane-spanning component, F_o, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG234303