OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG207667

AGXT2L2 (PHYKPL) (NM_153373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGXT2L2 (PHYKPL) (NM_153373) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGXT2L2
Synonyms:	AGXT2L2; PHLU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207667 representing NM_153373
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCAGACCAGCGCCCGAAGGCCGACACGCTGGCCCTGAGGCAACGGCTCATCAGCTCTTCCTGCA
GACTCTTTTTTCCCGAGGATCCTGTTAAGATTGTCCGGGCCCAAGGGCAGTACATGTACGATGAACAGGG
GGCAGAATACATCGATTGCATCAGCAATGTGGCGCACGTTGGGCACTGCCACCCTCTCGTGGTCCAAGCA
GCACATGAGCAGAACCAGGTGCTCAACACCAACAGCCGGTACCTGCATGACAACATCGTGGACTATGCGC
AGAGGCTGTCAGAGACCCTGCCGGAGCAGCTCTGTGTGTTCTATTTCCTGAATTCTGGGTCAGAAGCCAA
TGACCTGGCCCTGAGGCTGGCTCGCCACTACACGGGACACCAGGACGTGGTGGTATTAGATCATGCGTAT
CACGGCCACCTGAGCTCCCTGATTGACATCAGTCCCTACAAGTTCCGCAACCTGGATGGCCAGAAGGAGT
GGGTCCACGTGGCACCTCTCCCAGACACCTACCGGGGCCCCTACCGGGAGGACCACCCCAACCCAGCTAT
GGCCTATGCCAACGAGGTGAAACGTGTGGTCAGCAGTGCACAGGAGAAGGGCAGGAAGATTGCAGCCTTC
TTCGCTGAGTCTCTGCCCAGTGTGGGAGGGCAGATCATTCCCCCTGCTGGCTACTTCTCCCAAGTGGCAG
AGCACATCCGCAAGGCCGGAGGGGTCTTTGTTGCAGATGAGATCCAGGTTGGCTTTGGCCGGGTAGGCAA
GCACTTCTGGGCCTTCCAGCTCCAGGGAAAAGACTTCGTCCCTGACATCGTCACCATGGGCAAGTCCATT
GGCAACGGCCACCCTGTTGCCTGCGTGGCCGCAACCCAGCCTGTGGCGAGGGCATTTGAAGCCACCGGCG
TTGAGTACTTCAACACGTTTGGGGGCAGCCCAGTGTCCTGCGCTGTGGGGCTGGCCGTCCTGAATGTCTT
GGAGAAGGAGCAGCTCCAGGATCATGCCACCAGTGTAGGCAGCTTCCTGATGCAGCTCCTCGGGCAGCAA
AAAATCAAACATCCCATCGTCGGGGATGTCAGGGGTGTTGGGCTCTTCATTGGTGTGGATCTGATCAAAG
ATGAGGCCACAAGGACACCAGCAACTGAAGAGGCTGCCTACTTGGTATCAAGGCTGAAGGAGAACTACGT
TTTGCTGAGCACTGATGGCCCTGGGAGGAACATCCTGAAGTTTAAGCCCCCAATGTGCTTCAGCCTGGAC
AATGCACGGCAGGTGGTGGCAAAGCTGGATGCCATTCTGACTGACATGGAAGAGAAGGTGAGAAGTTGTG
AAACGCTGAGGCTCCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

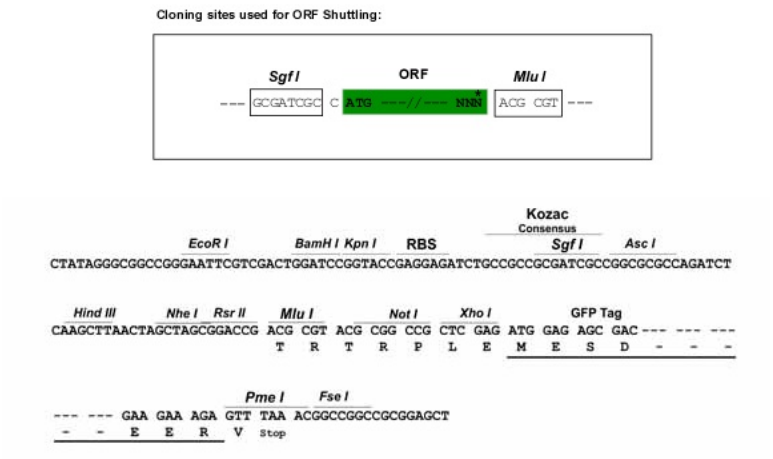
>RG207667 representing NM_153373
Red=Cloning site Green=Tags(s)

MAADQRPKADTLALRQRLISSSCRLFFPEDPVKIVRAQGQYMYDEQGAEYIDCISNVAHVGHCHPLVVQA
AHEQNQVLNTNSRYLHDNIVDYAQRLSETLPEQLCVFYFLNSGSEANDLALRLARHYTGHQDVVVLDHAY
HGHLSSLIDISPYKFRNLDGQKEWVHVAPLPDTYRGPYREDHPNPAMAYANEVKRVVSSAQEKGRKIAAF
FAESLPSVGGQIIPPAGYFSQVAEHIRKAGGVFVADEIQVGFGRVGKHFWAFQLQGKDFVPDIVTMGKSI
GNGHPVACVAATQPVARAFEATGVEYFNTFGGSPVSCAVGLAVLNVLEKEQLQDHATSVGSFLMQLLGQQ
KIKHPIVGDVRGVGLFIGVDLIKDEATRTPATEEAAYLVSRLKENYVLLSTDGPGRNILKFKPPMCFSLD
NARQVVAKLDAILTDMEEKVRSCETLRLQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

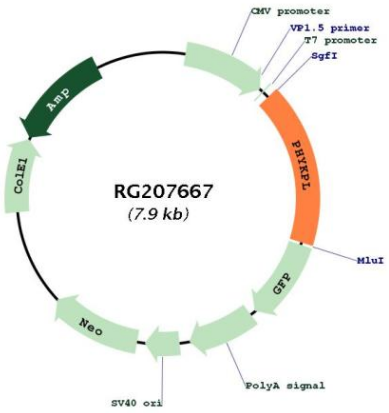
Cloning Scheme:



ACCN:	NM_153373
ORF Size:	1350 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_153373.4
RefSeq Size:	2010 bp
RefSeq ORF:	1353 bp
Locus ID:	85007

UniProt ID:	Q8IUZ5
Cytogenetics:	5q35.3
Domains:	aminotran_3
Protein Families:	Druggable Genome
Gene Summary:	This is a nuclear gene encoding a mitochondrial enzyme that catalyzes the conversion of 5-phosphonooxy-L-lysine to ammonia, inorganic phosphate, and 2-aminoadipate semialdehyde. Mutations in this gene may cause phosphohydroxylysinuria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RG207667