

Product datasheet for **RC207667**

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:	Myc-DDK
Symbol:	AGXT2L2
Synonyms:	AGXT2L2; PHLU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC207667 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAGACAGCGCCGAAGGCCGACACGCTGGCCCTGAGGCAACGGCTCATCAGCTCTTCTGCA
 GACTCTTTTTTCCGAGGATCCTGTTAAGATTGTCCGGGCCAAGGGCAGTACATGTACGATGAACAGGG
 GGCAGAATACATCGATTGCATCAGCAATGTGGCGACGTTGGGCACTGCCACCCTCTCGTGGTCCAAGCA
 GCACATGAGCAGAACCAGGTGCTCAACACCAACAGCCGGTACCTGCATGACAACATCGTGGACTATGCGC
 AGAGGCTGTGAGAGCCCTGCCGAGCAGCTCTGTGTGTTCTATTTCTGAATTCTGGGTGAGAAGCCAA
 TGACCTGGCCCTGAGGCTGGCTCGCCACTACACGGGACACAGGACGTGGTGGTATTAGATCATGCGTAT
 CACGGCCACCTGAGCTCCCTGATTGACATCAGTCCCTACAAGTCCGCAACCTGGATGGCAGAAGGAGT
 GGGTCCACGTGGACCTCTCCAGACACCTACCGGGGCCCTACCGGAGGACCACCCCAACCCAGCTAT
 GGCCTATGCCAACGAGGTGAAACGTGTGGTCAGCAGTGCACAGGAGAAGGGCAGGAAGATTGCAGCCTTC
 TTCGCTGAGTCTCTGCCAGTGTGGGAGGGCAGATCATTCCCCCTGCTGGCTACTTCTCCCAAGTGGCAG
 AGCACATCCGCAAGGCCGAGGGGTCTTTGTTGCAGATGAGATCCAGGTTGGCTTTGGCCGGGTAGGCAA
 GCACCTCTGGGCTTCCAGCTCCAGGAAAAGACTTCGTCCTGACATCGTCACCATGGGCAAGTCCATT
 GGCAACGGCCACCCTGTTGCCTGCGTGGCCGCAACCCAGCCTGTGGCGAGGGCATTTGAAGCCACCGGCG
 TTGAGTACTTCAACACGTTTGGGGGAGCCAGTGTCTGCGCTGTGGGGCTGGCCGTCTGAATGTCTT
 GGAGAAGGAGCAGCTCCAGGATCATGCCACAGTGTAGGCAGTTCCTGATGCAGCTCCTCGGCAGCAA
 AAAATCAAACATCCCATCGTCGGGATGTCAGGGGTGTTGGGCTCTTCATTGGTGTGGATCTGATCAAAG
 ATGAGGCCACAAGGACACCAAGCACTGAAGAGGCTGCCTACTTGGTATCAAGGCTGAAGGAGAAGTACGT
 TTTGCTGAGCACTGATGGCCCTGGGAGGAACATCCTGAAGTTTAAGCCCCAATGTGCTTCAGCCTGGAC
 AATGCACGGCAGGTGGTGGCAAAGCTGGATGCCATTCTGACTGACATGGAAGAGAAGGTGAGAAGTTGTG
 AACGCTGAGGCTCCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207667 protein sequence
 Red=Cloning site Green=Tags(s)

MAADQRPKADTLALRQRLISSSCRLFFPEDPVKIVRAQQQYMYDEQGAEYIDCISNVAHVGHCHPLVVQA
 AHEQNQVLNTNSRYLHDNIYDIAQRLSETLPEQLCVFYFLNSGSEANDLALRLARHYTGHQDVVVDHAY
 HGHLSSLIDISPYKFRNLGQKEWVHVAPLPDITYRGPYREDHNPAMAYANEVKRVVSSAQEKGRKIAAF
 FAESLPSVGGQIIPPAGYFSQVAEHIRKAGGVFADEIQVGFGRVGHFWAFQLQKDFVPDIVTMGKSI
 GNHGPVACVAATQPVARAFEATGVEYFNTFGSPVSCAVGLAVLNVLKEQLQDHATSVGSFLMQLLGQQ
 KIKHPIVGDVRGVGLFIGVDLIKDEATRPATEEAAYLVSRLENYVLLSTDGPGRNLIKFKPPMCFSLD
 NARQVVAKLDAILTDMEKVRSCETLRLQP

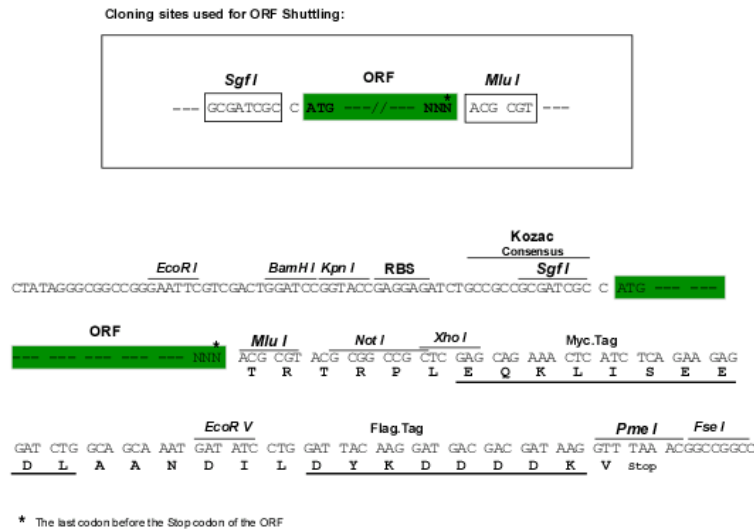
TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6336_g06.zip

Restriction Sites:

Sgfl-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](#)

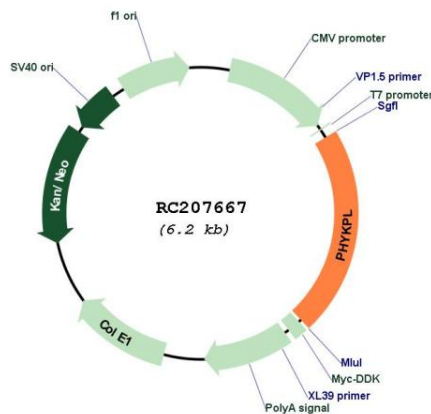
RefSeq Size: 2098 bp

RefSeq ORF: 1353 bp

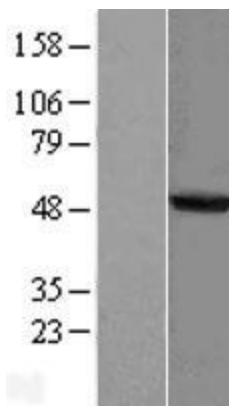
Locus ID: 85007

UniProt ID:	Q8IUZ5
Cytogenetics:	5q35.3
Domains:	aminotran_3
Protein Families:	Druggable Genome
MW:	49.7 kDa
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 phosphohydroxylysineuria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

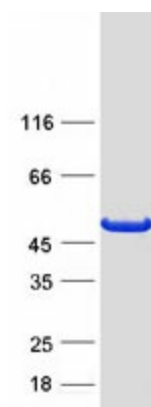
Product images:



Circular map for RC207667



Western blot validation of overexpression lysate (Cat# [LY407084]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207667 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PHYKPL protein (Cat# [TP307667]). The protein was produced from HEK293T cells transfected with PHYKPL cDNA clone (Cat# RC207667) using MegaTran 2.0 (Cat# [TT210002]).