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Product datasheet for RC238032

AGXT2L2 (PHYKPL) (NM_001278346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGXT2L2 (PHYKPL) (NM_001278346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHYKPL
Synonyms:	AGXT2L2; PHLU
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238032 representing NM_001278346 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTACGATGAACAGGGGGCAGAATACATCGATTGCATCAGCAATGTGGCGCACGTTGGGCACTGCCACC CTCTCGTGGTCCAAGCAGCACATGAGCAGAACCAGGTGCTCAACACCAACAGCCGGTACCTGCATGACAA CATCGTGGACTATGCGCAGAGGCTGTCAGAGACCCTGCCGGAGCAGCTCTGTGTGTTCTATTTCCTGAAT TCTGGGTCAGAAGCCAATGACCTGGCCCTGAGGCTGGCTCGCCACTACACGGGACACCAGGACGTGGTGG TATTAGATCATGCGTATCACGGCCACCTGAGCTCCCTGATTGACATCAGTCCCTACAAGTTCCGCAACCT GGATGGCCAGAAGGAGTGGGTCCACGTGGCACCTCTCCCAGACACCTACCGGGGCCCCTACCGGGAGGAC CACCCCAACCCAGCTATGGCCTATGCCAACGAGGTGAAACGTGTGGTCAGCAGTGCACAGGAGAAGGGCA GGAAGATTGCAGCCTTCTTCGCTGAGTCTCTGCCCAGTGTGGGAGGGCAGATCATTCCCCCTGCTGGCTA CTTCTCCCAAGTGGCAGAGCACATCCGCAAGGCCGGAGGGGTCTTTGTTGCAGATGAGATCCAGGTTGGC TTTGGCCGGGTAGGCAAGCACTTCTGGGCCTTCCAGCTCCAGGGAAAAGACTTCGTCCCTGACATCGTCA CCATGGGCAAGTCCATTGGCAACGGCCACCCTGTTGCCTGCGTGGCCGCAACCCAGCCTGTGGCGAGGGC ATTTGAAGCCACCGGCGTTGAGTACTTCAACACGTTTGGGGGCAGCCCAGTGTCCTGCGCTGTGGGGCTG GCCGTCCTGAATGTCTTGGAGAAGGAGCAGCTCCAGGATCATGCCACCAGTGTAGGCAGCTTCCTGATGC AGCTCCTCGGGCAGCAAAAAATCAAACATCCCATCGTCGGGGATGTCAGGGGTGTTGGGCTCTTCATTGG TGTGGATCTGATCAAAGATGAGGCCACAAGGACACCAGCAACTGAAGAGGCTGCCTACTTGGTATCAAGG CTGAAGGAGAACTACGTTTTGCTGAGCACTGATGGCCCTGGGAGGAACATCCTGAAGTTTAAGCCCCCAA TGTGCTTCAGCCTGGACAATGCACGGCAGGTGGTGGCAAAGCTGGATGCCATTCTGACTGACATGGAAGA GAAGGTGAGAAGTTGTGAAACGCTGAGGCTCCAGCCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

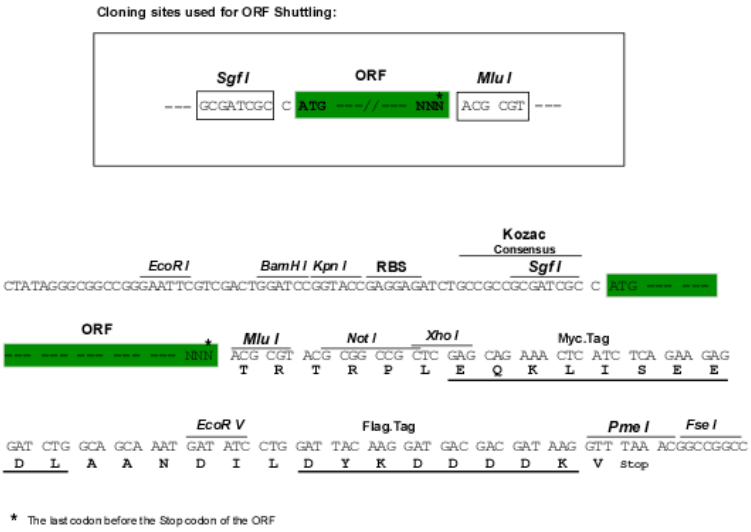
>RC238032 representing NM_001278346
Red=Cloning site Green=Tags(s)

MYDEQGAEYIDCISNVAHVGHCHPLVVQAAHEQNQVLNTNSRYLHDNIVDYAQRLSETLPEQLCVFYFLN
SGSEANDLALRLARHYTGHQDVVVLDHAYHGHLSSLIDISPYKFRNLDGQKEWVHVAPLPDTYRGPYRED
HPNPAMAYANEVKRVVSSAQEKGRKIAAFFAESLPSVGGQIIPPAGYFSQVAEHIRKAGGVFVADEIQVG
FGRVGKHFWAFQLQGKDFVPDIVTMGKSIGNGHPVACVAATQPVARAFEATGVEYFNTFGGSPVSCAVGL
AVLNVLEKEQLQDHATSVGSFLMQLLGQQKIKHPIVGDVRGVGLFIGVDLIKDEATRTPATEEAAYLVSR
LKENYVLLSTDGPGRNILKFKPPMCFSLDNARQVVAKLDAILTDMEEKVRSCETLRLQP

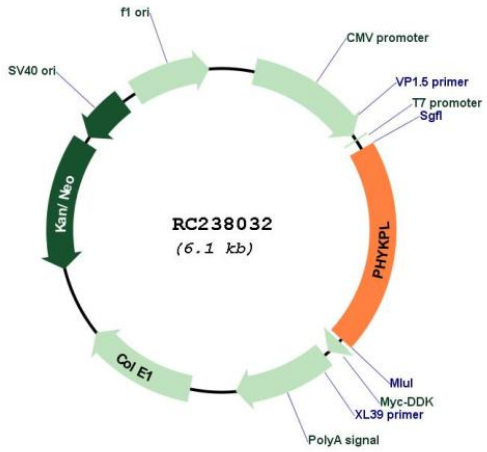
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278346

ORF Size:	1227 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.
RefSeq:	NM_001278346.1, NP_001265275.1
RefSeq Size:	2921 bp
RefSeq ORF:	1230 bp
Locus ID:	85007
UniProt ID:	Q8IUZ5
Cytogenetics:	5q35.3
Protein Families:	Druggable Genome
MW:	45.5 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 phosphohydroxylysinuria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]