

Product datasheet for **RC225861**

PHACS (ACCS) (NM_001127219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHACS (ACCS) (NM_001127219) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHACS
Synonyms:	ACS; PHACS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225861 representing NM_001127219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTACACCTTCTCTCAAAAGGACTTCAGGGCTCCCACCACCTGTCTGGGCCCCACCTGCATGCAGGACC
 TGGGCAGTAGCCATGGGGAAGATCTGGAAGGAGAATGCTCCAGAAAAGTGGACCAGAAAGCTGCCAGAGCT
 CCGTGGAGTGGGTGATCCTGCCATGATCTCTCTGATACCTCCTACCTGTCTCTAGAGGAAGAATGATT
 AAATGGTTCTGGGATTACGCTGAGGAGGGCTACAGGACCTACCACATGGATGAGTATGATGAGGACAAGA
 ACCCCAGTGGCATCATTAACTTGGGCACCAAGTGAAGCAAACTCTGCTTTGACCTGCTGTCTGGCGGCT
 GAGTCAGCGGACATGCAGAGGGTGGAGCCATCCCTGCTGCAGTATGCTGACTGGAGGGGACATCTGTTT
 CTCCGGGAGGAAGTGGCAAGTTCTGTCTTTCTACTGCAAGAGCCAGTACCCCTCAGACCAGAGAATG
 TGGTTGCTCTGAATGGTGGTGCCTCGCTCTTCTGCTCTGGCCACGGTGTGTGTGAGGCCGGGAGGC
 TTTCTGATCCCCACCCCTTACTATGGCGCTATCACACAGCACGTGTGTCTCTATGGCAACATCCGGCTG
 GCTATGTCTACCTGGACAGTGAAGTCACTGGGCTAGACACACGCCCCCTCCAGCTCACAGTGGAGAAGC
 TGGAGATGGCCCTGAGAGAAGCTCACTCTGAGGGTGTGAAGGTCAAAGGCCTATCCTCATCAGCCCCCA
 GAACCTCTGGGTGATGTATACTCCCTGAAGAGCTACAGGAGTACCTGGTATTTGCCAAGAGGCACAGG
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 CGCTACCACGGCTCAGTGGCTTGGTCCAGTACCAGATGGCACAGCTGCTCCGGGACCGTGACTGGATCA
 ACCAGGTGTACCTGCCGAAAACCATGCCCGGCTCAAGGCTGCCACACCTATGTCTCAGAAGAGCTTAG
 GGCATTGGGGATCCCCTTCTTGAGTCTGGGGCTGGCTTCTTCATCTGGGTTGACTTGAGAAAGTACCTG
 CCCAAGGGCACCTTTGAGGAGGAATGCTGCTCTGGCGCCGCTTTTGGACAACAAGGTGCTGCTGTCTCT
 TTGGCAAGGCCTTCGAGTGTAAGAGCCTGGTTGGTTTCGCTTTGTCTCTCAGACCAGGTCCACCGGCT
 TTGCCTGGGGATGCAGAGGGTCCAGCAGGTGCTTGCAAGCAATCCCAAGTGGCAGAAGACCCCGTCCC
 TCTCAGAGCCAGGAGCAAGTGACCAACGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225861 representing NM_001127219
 Red=Cloning site Green=Tags(s)

MFTLPQKDFRAPTTCLGPTCMQDLGSSHGEDLEGECSRKLDQKLPGLRGVDPAMISSDTSYLSRGRMI
 KWFWDSEEGYRTYHMEYDEDEKNPSGIINLGTSENKLCFDLLSWRLSQRDMQRPVPSLLQYADWRGHLF
 LREEVAKFLSFYCKSPVPLRPENVVVLNGGASLFSALATVLCAGEAFLIPTPYGAIQHVCLYGNIRL
 AYYVLDSEVTGLDTRPFQLTVEKLEMALREAHSEGKVKGLILISPQNPLGDVYSPEELQEYLVFAKRHR
 LHVIIVDEVYMLSVFEKSVGYRSVLSLERLPDPQRTHVMWATSKDFGMSGLRFGTLYTENQDVATAVASLC
 RYHGLSGLVQYQMAQLLRDRDWINQVYLPENHARLKAHTYVSEELRALGIPFLSRGAGFFIWDLRKYL
 PKGTFFEEMLLWRRFLDNKVLLSFGKAFECKEPGWFRFVSDQVHRLCLGMQRVQVQLAGKSQVAEDPRP
 SQQEPSSDQRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

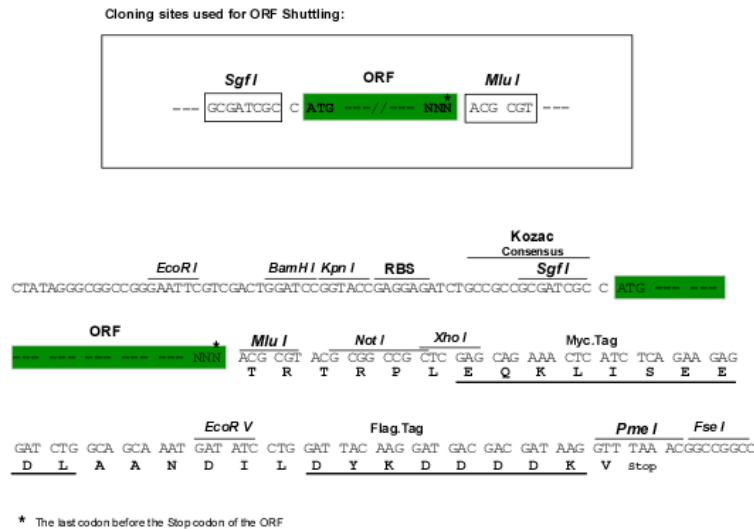
Chromatograms:

https://cdn.origene.com/chromatograms/mk6420_b12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001127219

ORF Size: 1503 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_001127219.2](#)

RefSeq ORF: 1506 bp

Locus ID: 84680

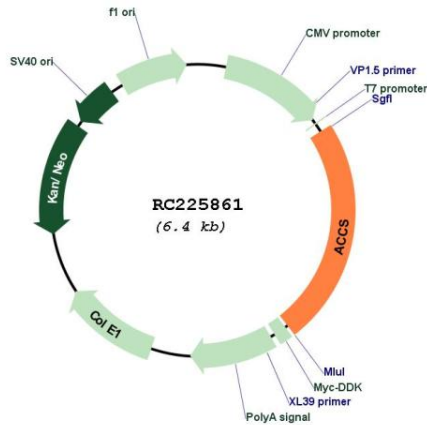
UniProt ID: [Q96QU6](#)

Cytogenetics: 11p11.2

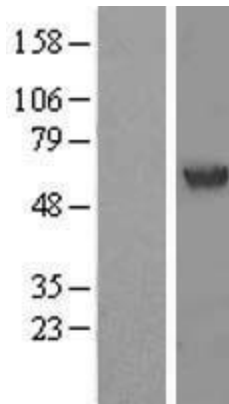
MW: 57.1 kDa

Gene Summary: Does not catalyze the synthesis of 1-aminocyclopropane-1-carboxylate but is capable of catalyzing the deamination of L-vinylglycine.[UniProtKB/Swiss-Prot Function]

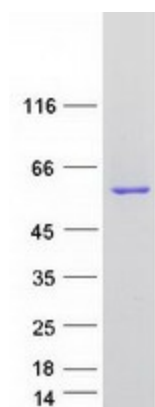
Product images:



Circular map for RC225861



Western blot validation of overexpression lysate (Cat# [LY426720]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225861 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACCS protein (Cat# [TP325861]). The protein was produced from HEK293T cells transfected with ACCS cDNA clone (Cat# RC225861) using MegaTran 2.0 (Cat# [TT210002]).