

Product datasheet for **RC205806**

PHACS (ACCS) (NM_032592) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHACS (ACCS) (NM_032592) 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:

>RC205806 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTACCCCTTCTCAAAGGACTTCAGGGCTCCACCACCTGTCTGGGCCACCTGCATGCAGGACC
 TGGCAGTAGCCATGGGAAGATCTGGAAGGAGAATGCTCCAGAAAAGTGGACCAGAAGCTGCCAGAGCT
 CCGTGGAGTGGGTGATCCTGCCATGATCTCTCTGATACCTCCTACCTGTCTCTAGAGGAAGAATGATT
 AAATGGTCTGGGATTCAGCTGAGGAGGGCTACAGGACCTACCACATGGATGAGTATGATGAGGACAAGA
 ACCCCAGTGGCATCATTAACTTGGGCACCAAGTGAACAACCTCTGCTTTGACCTGCTGTCTGGCGGT
 GAGTCAGCGGACATGCAGAGGGTGGAGCCATCCCTGCTGCAGTATGCTGACTGGAGGGGACATCTGTT
 CTCGGGAGGAAGTGGCCAAGTCTGTCTTTCTACTGCAAGAGCCAGTACCCCTCAGACCAGAGAATG
 TGGTTGCTCTGAATGGTGGTGCCTCGCTCTTCTGCTCTGGCCACGGTGTGTGTGAGGCCGGGAGGC
 TTTCTGATCCCCACCCCTTACTATGGCGCTATCACACAGCACGTGTGTCTCTATGGCAACATCCGGCTG
 GCCTATGTCTACCTGGACAGTGGGTCACTGGGCTAGACACACGCCCTTCCAGCTCACAGTGGAGAAGC
 TGGAGATGGCCCTGAGAGAAGCTCACTCTGAGGGTGTGAAGGTCAAAGGCCTATCCTCATCAGCCCCA
 GAACCCTCTGGGTGATGATACTCCCCTGAAGAGCTACAGGAGTACCTGGTATTTGCCAAGAGGCACAGG
 CTGCATGTGATTGGATGAGGTCTACATGTTGTCCGTGTTGAGAAGTCTGTTGGGTACCCGAGTGTCC
 TAAGCCTGGAAAGGCTCCCTGACCCCCAGAGGACCCATGTGATGTGGCAACCAGCAAGGACTTCGGGAT
 GTCTGGGCTCCGCTTTGGCAGCTGTACACAGAAAACCAGGATGTGGCCACTGCCGTGGCTTCCCTCTGC
 CGCTACCACGGCTCAGTGGCTTGGTCCAGTACCAGATGGCACAGCTGCTCCGGGACCGTACTGGATGA
 ACCAGGTGTACCTGCCGAAAACCATGCCCGGCTCAAGGCTGCCACACCTATGTCTCAGAAGAGCTTAG
 GGCTTTGGGATCCCCTTCTTGAGTCGTGGGGCTGGCTTCTTCTGCTGGGTTGACTTGAGAAAGTACCTG
 CTAAGGGCACCTTTGAGGAGGAATGCTGCTCTGGCGCCGCTTTTGGACAACAAGGTGCTGCTGTCT
 TTGGCAAGGCCTTCGAGTGTAAGAGCCTGGTGGTTTCGCTTTGCTTCTCAGACCAGTCCACCGGCT
 TTGCTGGGGATGCAGAGGGTCCAGCAGGTGCTTGCAAGCAAATCCCAAGTGGCAGAAGACCCCGTCCC
 TCTCAGAGCCAGGAGCAAGTACCAACGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205806 protein sequence
 Red=Cloning site Green=Tags(s)

MFTLPQKDFRAPTTCLGPTCMQDLGSSHGEDLEGECSRKLDQKLPRLRGVDPAMISSDTSYLSRGRMI
 KWFWDSEEEGYRTHYHMEYDEDEKNPSGIINLGTSENKLCFDLLSWRLSQRDMQRVEPSLLQYADWRGHLF
 LREEVAKFLSFYCKSPVPLRPENVVVLNGGASLFSALATVLCAGEAFLIPTPYGAIQHVCLYGNIRL
 AYVYLDSEVTGLDTRPFQLTVEKLEMALREAHSEGVKVKGLILISPQNPLGDVYSPEELQEYLVFAKRHR
 LHVIVDEVYMLSVFEKSVGYRSVLSLERLPDPQRTHVMWATSKDFGMSGLRFGTLYTENQDVATAVASLC
 RYHGLSGLVQYQMAQLLRDRDWINQVYLPENHARLKAHAHYVSEELRALGIPFLSRGAGFFIWDLRKYL
 LKGTFFEEMLLWRRFLDNKVLVLSFGKAFECKEPGWFVSDQVHRLCLGMQRVQVLAGKSQVAEDPRP
 SQQEPEPSDQRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_032592

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.

RefSeq: [NM_032592.4](#)

RefSeq Size: 2196 bp

RefSeq ORF: 1506 bp

Locus ID: 84680

UniProt ID: [Q96QU6](#)

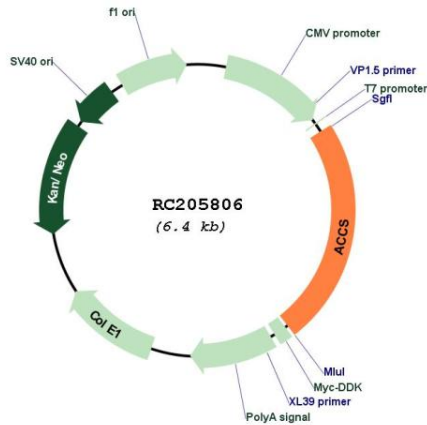
Cytogenetics: 11p11.2

Domains: aminotran_1_2

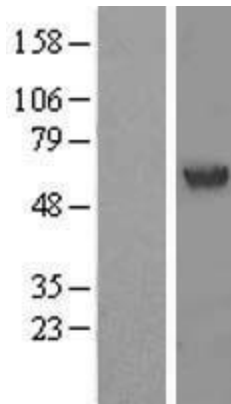
MW: 57.3 kDa

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]

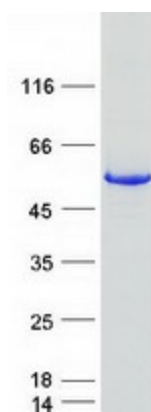
Product images:



Circular map for RC205806



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# [TP305806]). The protein was produced from HEK293T cells transfected with ACCS cDNA clone (Cat# RC205806) using MegaTran 2.0 (Cat# [TT210002]).