

Product datasheet for RC202287

ACY3 (NM_080658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACY3 (NM_080658) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACY3
Synonyms:	ACY-3; HCBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202287 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCTCACTGCCTGTGCCCGGGAGCCCTGCGTCGCGTGGCTGTGACTGGGGGACGCATGGCAACG
AGATGTCGGGCGTCTACCTGGCCCGCACTGGCTGCATGCCCCGCAGAGCTGCAGAGAGCCAGCTTCTC
CGCTGTGCCTGTGCTGGCCAACCCGGCAGCCACATCCGGCTGCCGCCGCTACGTGGACCATGACCTCAAC
CGCACCTTACCAGCAGCTTCTCAATTCAGGCCACCCGGAGACCCATATGAGGTGACAAGAGCCC
GAGAGCTGAACCAGCTGCTGGGGCCAAGGCCTCGGGCCAGGCCTTTGACTTTGCTTTGACCTGCACAA
CACCACGGCCAACATGGGCACCTGCTTAATCGCGAAGTCCTCCCACGAAGTCTTTGCCATGCACCTGTGC
CGCCATCTGCAGCTGCAGTACCCCGAGCTGTCTGCCAGGTCTTCTGTACCAGCGGTCTGGGGAGGAGA
GCTACAACCTGGACTCTGTGGCCAAAAATGGACTGGGTCTGGAGCTGGGCCCCAGCCACAGGGTGTGCT
GCGGGTACATTTTCTCAAGGATGAGGACCCTGGTGGCCACAGTTCTGGACTTCATCGAACTCTTCAAC
CAGGGTACGGCCTTCTGCCTTGGAGATGGAAGCCTATAGACCCGTGGGCGTCGTGGACTTCCCCCGCA
CCGAGGCCGGCACCTGGCAGGCACTGTGCATCCTCAGCTGCAGGACCGAGACTCCAGCCACTGCAGCC
TGGTGTCCCATCTTCCAGATGTTTCAGTGGGAGGACCTGCTCTATGAGGGAGAGTCCACGGTGTACCCC
GTGTTTCATTAACGAGGCTGCCTACTATGAGAAGGGCGTTGCCCTTGTCCAGACTGAGAAGTTCACATTCA
CCGTGCCTGCCATGCCCGCGCTGACCCCTGCCCGAGCCAGCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202287 protein sequence
Red=Cloning site Green=Tags(s)

MCSLPVPREPLRRVAVTGGTHGNEMSGVYLARHWLHAPAE LQRASFSAVPVLANPAATSGCRRYVDHDLN
 RTFTSSFLNSRPTDDPYEVTRARELNQLLGPKASGQAFDFVLDLHNTTANMGTC LIAKSSHEVFMHLC
 RHLQLQYPELSCQVFLYQRSGEESYNLDSVAKNGLGLELGPQPQGVLRADIFSRMRTL VATVLD FIELFN
 QGTAFPAFEMEAYRPVGVVDFPRTEAGHLAGTVHPQLQDRDFQPLQPGAPIFQMFSGEDLLYEGESTVYP
 VFINEAAYYEKGVAFVQTEKFTTVPAMPALTPAPSPAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6302_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080658

ORF Size: 957 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_080658.2](#)

RefSeq Size: 1317 bp

RefSeq ORF: 960 bp

Locus ID: 91703

UniProt ID: [Q96HD9](#)

Cytogenetics: 11q13.2

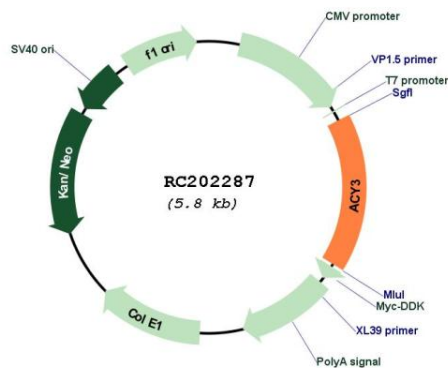
Domains: Aste_AspA

Protein Pathways: Alanine, aspartate and glutamate metabolism, Histidine metabolism

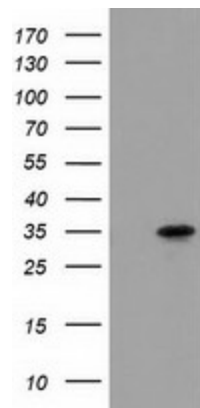
MW: 35.2 kDa

Gene Summary: Plays an important role in deacetylating mercapturic acids in kidney proximal tubules. Also acts on N-acetyl-aromatic amino acids (By similarity).[UniProtKB/Swiss-Prot Function]

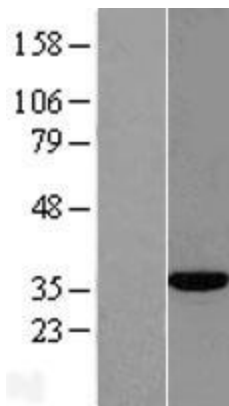
Product images:



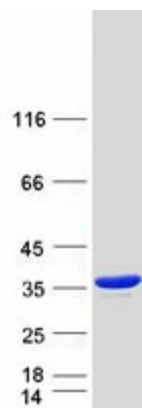
Circular map for RC202287



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACY3 (Cat# RC202287, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACY3 (Cat# [TA502295]). Positive lysates [LY408962] (100ug) and [LC408962] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408962]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202287 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACY3 protein (Cat# [TP302287]). The protein was produced from HEK293T cells transfected with ACY3 cDNA clone (Cat# RC202287) using MegaTran 2.0 (Cat# [TT210002]).