

## Product datasheet for **RG202287**

### ACY3 (NM\_080658) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACY3 (NM_080658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACY3
Synonyms:	ACY-3; HCBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202287 representing NM_080658 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCTCACTGCCTGTGCCCGGGAGCCCTGCGTCGCGTGGCTGTGACTGGGGCAGCATGGCAACG  
AGATGTCGGGCGTCTACCTGGCCCGCACTGGCTGCATGCCCCGCAGAGCTGCAGAGAGCCAGCTTCTC  
CGCTGTGCCTGTGCTGGCCAACCCGGCAGCCACATCCGGCTGCCGCCGCTACGTGGACCATGACCTCAAC  
CGCACCTTACCAGCAGCTTCTCAATTCCAGGCCACCCGGAGACCCATATGAGGTGACAAGAGCCC  
GAGAGCTGAACCAGCTGTGGGGCCAAGGCCTCGGGCCAGGCCCTTGACTTTGCTTGCCTTGACCTGCACAA  
CACCACGGCCAACATGGGCACCTGCTTAATCGCGAAGTCCTCCCACGAAGTCTTTGCCATGCACCTGTGC  
CGCCATCTGCAGCTGCAGTACCCCGAGCTGTCTGCCAGGTCTTCTGTACCAGCGGTCTGGGGAGGAGA  
GCTACAACCTGGACTCTGTGGCCAAAAATGGACTGGGTCTGGAGCTGGGCCCCAGCCACAGGGTGTGCT  
GCGGGTACGCTTTTCTCAAGGATGAGGACCCTGGTGGCCACAGTTCTGGACTTCATCGAACTCTTCAAC  
CAGGGTACGGCCTTCTGCCTTGGAGATGGAAGCCTATAGACCCGTGGGCGTCTGGACTTCCCCCGCA  
CCGAGGCCGGCACCTGGCAGGCACTGTGCATCCTCAGCTGCAGGACCGAGACTCCAGCCACTGCAGCC  
TGGTGTCCCATCTTCCAGATGTTTCAGTGGGAGGACCTGCTCTATGAGGGAGAGTCCACGGTGTACCCC  
GTGTTTCATTAACGAGGCTGCCTACTATGAGAAGGGCGTTGCCTTTGTCCAGACTGAGAAGTTCACATTCA  
CCGTGCCTGCCATGCCCGCGCTGACCCCTGCCCGAGCCAGCTTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202287 representing NM\_080658  
 Red=Cloning site Green=Tags(s)

MCSLPVPREPLRRVAVTGGTHGNEMSGVYLARHWLHAPAE LQRASFSAVPVLANPAATSGCRRYVDHDLN  
 RTFTSSFLNSRPTDDPYEVTRARELNQLLGPKASGQAFDFVLDLHNTTANMGTCLIAKSSHEVFMHLC  
 RHLQLQPELSCQVFLYQRSGEESYNLDSVAKNGLGLELGPQPQGVLRADIFSRMRTL VATVLD FIELFN  
 QGTAFPAFEMEAYRPVGVVDFPRTEAGHLAGTVHPQLQDRDFQPLQPGAPIFQMFSGEDLLYEGESTVYP  
 VFINAAAYYEKGVAFVQTEKFTFTVPAMPALTPAPSPAS

TRTRPLE - GFP Tag - V

**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](#)

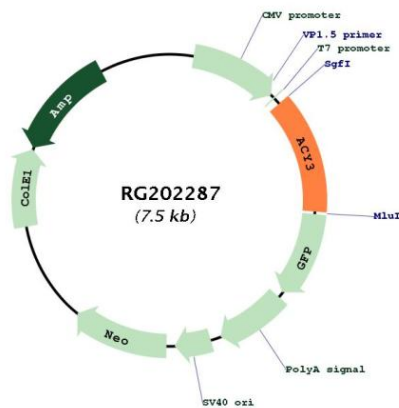
**Cytogenetics:** 11q13.2

**Domains:** Aste\_AspA

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

**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 RG202287