

## Product datasheet for MR229216

### Acy3 (NM\_001302479) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acy3 (NM_001302479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acy3
Synonyms:	0610006H10Rik; A; AA3; AAllI; Acy-3; AW107362; HCBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229216 representing NM_001302479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCTCCCTACCTGGGTCCCGGGAGCCCTGCTCCGTGTGGCTGTGACTGGAGGCACCCACGGGAATG  
AGATGTGTGGTGTCTACCTGGCCCGGTACTGGCTACAGAACCAGGGGAGCTGCAGAGACCCAGCTTCTC  
AGCCATGCCGGTCTGGCCAACCAGCAGCCACAGCTGCCTGTTGCCGTTACCTGGACCGTGATCTCAAC  
CGCTCCTGCACCCTCACCTTCCTGGTTCCACCCTACCCCTGATGACCCTATGAAGTAAAAGAGCCC  
GAGAGTTGAACCAGCTGTGGTCCCAAGGGCACAGGCCAGGCTTTTGACTTTACCCTAGACCTGCACAA  
CACCACAGCAAACACTGGAGTCTGCCTCATCTCTGAATCCAACATCTCCTTCAACTTGCACCTGTGCCAC  
TACCTACAGCGGCAGAACCCGGGATGCCTGCCGCTCTTTCTGTATGAGCCAGCTGGGACGGAGACCT  
TCAGCGTGAATCTATATCCAAGAATGGAATCTGTCTGGAGATGGGCCACAGCCTCAGGGCGTGTGCG  
GGCCGACCTGTTCTCCCGGATGCGAGCTCTGGTGGCATCCATTCTGGACTTCATCGAGCTTTCAACCAA  
GGCATGGACTTACCCGCCTTTGAGATGGATATCTACAGGAACCTGGGCAGTGTGGACTTCCCACGCACTG  
CGGATGGTGACCTGGCTGGCACTGTGCACCCTCAACTGCAGGACCATGACTTTGAGCCACTGAGGCTGG  
TGAACCATCTTCAAGCTTTTCAGCGGAGAAGACGTACTGTATGAGGGGACTCCATTGTGTACCCTGTG  
TTCATTAATGAGGCTGCCTATTATGAGAAGCACGTGGCATTCTGAAGTCTGAGAAGATCAGGGTCACAG  
TGCTGCCCTGCTGAGGTTGACCCCGCTCCACCCAGACTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR229216 representing NM\_001302479  
Red=Cloning site Green=Tags(s)

MSSLPGSREPLLRAVAVTGGTHGNEMCGVYLARYWLQNPGE LQRPSFSAMPVLANPAATAACCRYLDRDLN  
 RSCTLTFLGSTATPDDPYEVKRARELNQLLGPKGTGQAFDFTLDLHNTTANTGVCLISESNISFNLHLCH  
 YLQRQNPMPGMPCLFLYEPAGTETF SVESISKNGICLEMGPQPQGVLRADLF SRMRALVASILDFIELFNQ  
 GMDLPAFEMDIYRNLSVDFPRTADGDLAGTVHPQLQDHDFEPLRPGEPIFKLFSGEDVL YEGDSIYYPV  
 FINEAAYEKHVAFLKSEKIRVTVALLRLTPRSTQTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001302479

**ORF Size:** 954 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\\_001302479.1](#), [NP\\_001289408.1](#)

**RefSeq Size:** 1316 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 71670

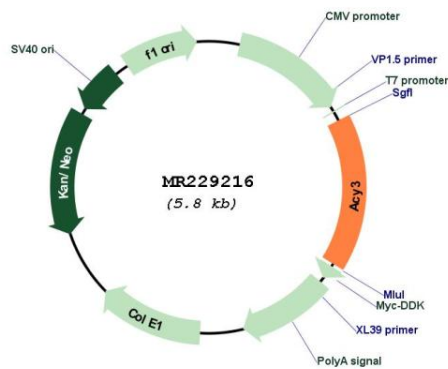
**UniProt ID:** [Q91XE4](#)

**Cytogenetics:** 19 A

**MW:** 35.3 kDa

**Gene Summary:** This gene encodes a member of the aminoacylase family of enzymes. This enzyme specifically deacetylates N-acetyl aromatic amino acids and mercapturic acids. Action of this enzyme on metabolites of the environmental contaminant trichloroethylene leads to the generation of toxic products that may lead to kidney failure. This protein has been found to bind to the hepatitis C virus core protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

### Product images:



Circular map for MR229216