

Product datasheet for **MR204580**

Acy3 (NM_027857) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acy3 (NM_027857) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acy3
Synonyms:	0610006H10Rik; AA3; AAIII; Acy-3; AW107362; HCBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204580 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCCTACCTGGGTCCCGGGAGCCCTGCTCCGTGTGGCTGTGACTGGAGGCACCCACGGGAATG
AGATGTGTGGTGTCTACCTGGCCCGGTACTGGCTACAGAACCAGGGGAGCTGCAGAGACCCAGCTTCTC
AGCCATGCCGGTCTGGCCAACCAGCAGCCACAGCTGCCTGTTGCCGTTACCTGGACCGTGATCTCAAC
CGCTCCTGCACCCTCACCTTCCTGGTTCCACCCTACCCCTGATGACCCTATGAAGTAAAAGAGCCC
GAGAGTTGAACCAGCTGCTGGTCCCAAGGGCACAGGCCAGGCTTTTGACTTTACCCTAGACCTGCACAA
CACCACAGCAAACACTGGAGTCTGCCTCATCTCTGAATCCAACATCTCCTTCAACTTGCACCTGTGCCAC
TACCTACAGCGGCAGAACCCGGGATGCCTGCCGCTTTTCTGTATGAGCCAGCTGGGACGGAGACCT
TCAGCGTGAATCTATATCCAAGAATGGAATCTGTCTGGAGATGGGCCACAGCCTCAGGGCGTGTGCG
GGCCGACCTGTTCTCCCGGATGCGAGCTCTGGTGGCATCCATTCTGGACTTCATCGAGCTTTCAACCAA
GGCATGGACTTACCCGCCTTTGAGATGGATATCTACAGGAACCTGGGCAGTGTGGACTTCCCACGCACTG
CGGATGGTGACCTGGCTGGCACTGTGCACCCTCAACTGCAGGACCATGACTTTGAGCCACTGAGGCTGG
TGAACCCATCTCAAGCTTTTCAGCGGAGAAGACGTACTGTATGAGGGGGACTCCATTGTGTACCCTGTG
TTCATTAATGAGGCTGCCTATTATGAGAAGCACGTGGCATTCTGAAGTCTGAGAAGATCAGGGTCACAG
TGCTGCCCTGCTGAGGTTGACCCCGCTCCACCCAGACTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204580 protein sequence
Red=Cloning site Green=Tags(s)

MSSLPGSREPLLRAVAVTGGTHGNEMCGVYLARYWLQNPGE LQRPSFSAMPVLANPAATAACCRYLDRDLN
 RSCTLTFLGSTATPDDPYEVKRARELNQLLGPKGTGQAFDFTLDLHNTTANTGVCLISESNISFNLHLCH
 YLQRQNPMPGMPCLFLYEPAGTETF SVESISKNGICLEMGPQPQGVLRADLF SRMRALVASILDFIELFNQ
 GMDLPAFEMDIYRNLSVDFPRTADGDLAGTVHPQLQDHDFEPLRPGEPIFKLFSGEDVL YEGDSIYYPV
 FINEAAYEKHVAFLKSEKIRVTVPALLRLTPRSTQTP

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_027857

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_027857.2](#)

RefSeq Size: 1505 bp

RefSeq ORF: 957 bp

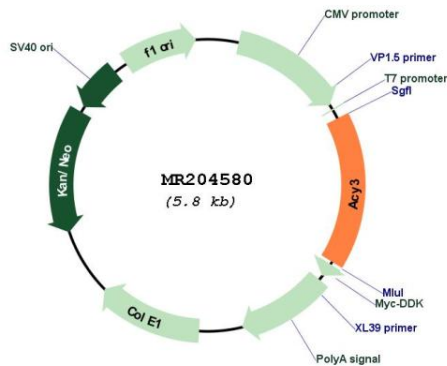
Locus ID: 71670

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 MR204580