

Product datasheet for MR229749

Acy1 (NM_001276442) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acy1 (NM_001276442) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acy1
Synonyms:	1110014J22Rik; Acy-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229749 representing NM_001276442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACCAAGGATCCCGAGTCTGAGCACCCCTCCGTGACGCTCTCCGCCAGTACCTGCGCATCTGCA
CTGTGCAACCAATCCAGACTATGGAGGGGCCATCACCTCCTGGAGGAGAGAGCCCGCCAGCTGGGTCT
GAGCTGCAGAAAATAGAGGTGGTGCCTGGCTTTGTGATCACTGTGCTGACCTGGCCAGGCCAACCCG
TCACTCCCCTCCATCTTGCTAACTCCACACAGATGTGGTACCTGTCTCAAGGAACATTGGCATCAG
ACCCCTTTGAGGCCTTCAAGGATTCGAGGGCTACATCTATGCTAGGGGCTCCCAGGACATGAAGAGTGT
CAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGAGCGAGGGCCACCGATTCCCTAGGACCATCCAC
ATGACCTTTGTGCCTGACGAGGAGGTCGGAGGTCACAAGGGGATGGAGTTGTTTGTGAAGAGGCCTGAGT
TCCAGGCTCTGCGGGCAGGCTTCGTTCTGGACGAGGGCCTGGCCAACCCACGGATGCCTTTACTGTCTT
TTATAGTGAGCGGAGTCCCTTGGTGGTACAGGTTACCAGCACTGGGAAGCCAGGCCATGCCTCACGCTTC
ATTGAGGATACAGCTGCAGAGAAGTTGCATAAGGTTATAAGCTCCATCTTGGCATTCCGGGAGAAGGAAA
GGCAGAGGCTGCAGGCGAACCCCTCACCTGAAGGAAGGCCCGTGACTTCGGTGAATCTGACCAAGCTTGA
AGGTGGCGTGGCTATAATGTGGTACCTGCCACTATGAGTGCCAGCTTTGACTTCCGAGTGGCACCAGAT
GTAGACATGAAGGCCTTCGAGAAGCAGCTGCAGAGATGGTGCCAGGAAGCAGGAGAGGGGTCACCTTTG
AGTTTGCTCAGAAGTTTACAGAGCCTCGAATGACACCCACGGATGATTCAGATCCCTGGTGGCAGCTTT
CAGCGGAGCCTGCAAGGCAATGAACCTCACTCTGGAGCCAGAGATCTTTCTGCTGCCACTGACAGCCGC
TTTATCCGGGCGGTGGGATCCCAGCTCTGGGCTTCTCGCCATGAACCGCACACCTGTCTGCTACATG
ACCATAATGAACGGCTGCATGAGGATATATTTCTCCGTGGGTTGACATATATACAGGCCTCCTCTCTGC
ACTTGCTAGTGTGCCACCCTGCCTAGTGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR229749 representing NM_001276442
Red=Cloning site Green=Tags(s)

MTTKDPESEHPSVTLFRQYLRICTVQPNPDYGGAITFLEERARQLGLSCQKIEVVPGFVITVLTWPGTNP
 SLPSILLNSHTDVVPVFKHWHHDPFEAFKDSSEGYIYARGSQDMKSVSIQYLEAVRRLKSEGHFRPRTIH
 MTFVDPDEEVGGHKGMELFVKRPEFQALRAGFVLDEGLANPTDAFTVFYSERSPWVQVSTGKPGHASRF
 IEDTAAEKLHKVSISSILAFREKERQRLQANPHLKEGAVTSVNLTKLEGGVAYNVVVPATMSASFDFRVAPD
 VDMKAFEKQLQRWCQEAGEGVTFEFAQKFTEPRMTPDSDPWAAAFSGACKAMNLTLEPEIFPAATDSR
 FIRAVGIPALGFSPMNRTPVLLHDHNERLHEDIFLRGVDIYTGLLSALASVPTLPSES

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_001276442

ORF Size: 1224 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_001276442.1](#), [NP_001263371.1](#)

RefSeq Size: 1455 bp

RefSeq ORF: 1227 bp

Locus ID: 109652

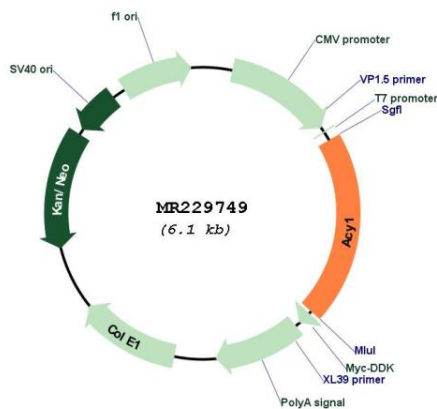
UniProt ID: [Q99JW2](#)

Cytogenetics: 9 57.49 cM

MW: 45.8 kDa

Gene Summary: Involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229749