

Product datasheet for MR206415

Acy1 (NM_025371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acy1 (NM_025371) 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:	>MR206415 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACCAAGGATCCCGAGTCTGAGCACCCCTCCGTGACGCTCTCCGCCAGTACCTGCGCATCTGCA
CTGTGCAACCAATCCAGACTATGGAGGGGCCATCACCTCTGGAGGAGAGAGCCCGCCAGCTGGGTCT
GAGCTGCAGAAAATAGAGGTGGTGCCTGGCTTTGTGATCACTGTGCTGACCTGGCCAGGCACCAACCCG
TCACTCCCCTCCATCTTGCTAACTCCACACAGATGTGGTACCTGTCTCAAGGAACATTGGCATCAGC
ACCCCTTTGAGGCCTTCAAGGATTCGAGGGCTACATCTATGCTAGGGGCTCCCAGGACATGAAGAGTGT
CAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGAGCGAGGGCCACCGATTCCCTAGGACCATCCAC
ATGACCTTTGTGCCTGATGAGGAGGTCGGAGGTCACAAGGGGATGGAGTTGTTTGTGAAGAGGCCTGAGT
TCCAGGCTCTGCGGGCAGGCTTCGCTCTGGACGAGGGCCTGGCCAACCCACGGATGCCTTTACTGTCTT
TTATAGTGAGCGGAGTCCCTTGGTGGGTACGGGTTACCAGCACTGGGAAGCCAGGCCATGCCTCACGCTTC
ATTGAGGATACAGCTGCAGAGAAGTTGCATAAGGTTATAAGCTCCATCTTGGCATTCCGGGAGAAGGAAA
GGCAGAGGCTGCAGGCGAACCCTCACCTGAAGGAAGGCGCTGTGACTTCGGTGAATCTGACCAAGCTTGA
AGGTGGCGTGGCTATAATGTGGTACCTGCCACTATGAGTGCCAGCTTTGACTTCCGAGTGGCACCAGAT
GTAGACATGAAGGCCTTCGAGAAGCAGCTGCAGAGATGGTGCCAGGAAGCGGGAGAGGGGTCACCTTTG
AGTTTGCTCAGAAGTTTACAGAGCCTCGAATGACACCCACGGATGATTCAGATCCCTGGTGGCAGCTTT
CAGCGGAGCCTGCAAGGCAATGAACCTCACTCTGGAGCCAGAGATCTTTCTGCTGCCACTGACAGCCGC
TATATCCGAGCGGTGGGATCCCAGCTCTGGGCTTCTCGCCATGAACCGCACACCTGTCTGTACATG
ACCATAATGAACGGCTGCATGAGGATATTTCTCCGTGGGGTTGACATATATACAGGCCTCCTCTCTGC
ACTTGCTAGTGTGCCACCCTGCCTGGTAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206415 protein sequence
Red=Cloning site Green=Tags(s)

MTTKDPESEHPSVTLFRQYLRICTVQPNPDYGGAITFLEERARQLGLSCQKIEVVPGFVITVLTPWGTNP
 SLPSILLNSHTDVVPVFKHWHHDPFEAFKDSSEGYIYARGSQDMKSVSIQYLEAVRRLKSEGHFRPRTIH
 MTFVDPDEEVGGHKGMELFVKRPEFQALRAGFALDEGLANPTDAFTVFYSERSPWVVRTSTGKPGHASRF
 IEDTAAEKLHKVSISSILAFREKERQRLQANPHLKEGAVTSVNLTKLEGGVAYNVVVPATMSASFDFRVAPD
 VDMKAFEKQLQRWCQEAGEGVTFEFAQKFTEPRMTPDSDPWAAAFSGACKAMNLTLEPEIFPAATDSR
 YIRAVGIPALGFSPMNRTPVLLHDHNERLHEDIFLRGVDIYTGLLSALASVPTLPGES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025371

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025371.1](#), [NM_025371.2](#), [NM_025371.3](#), [NP_079647.1](#)

RefSeq Size: 1459 bp

RefSeq ORF: 1227 bp

Locus ID: 109652

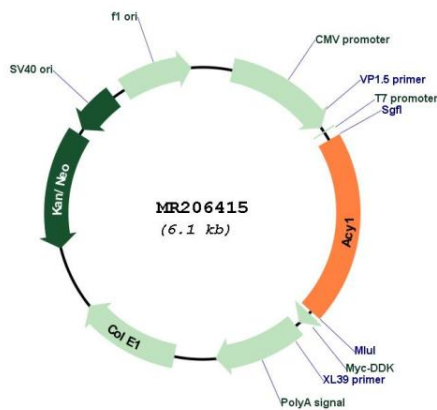
UniProt ID: [Q99JW2](#)

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 MR206415