

Product datasheet for **RR214639**

Acy1 (NM_001005383) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acy1 (NM_001005383) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Acy1
Synonyms: Acy1a; Acy1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214639 representing NM_001005383
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCAGCAAGGTTCCCGAGGAGGAGCACCCATCGGTGACGCTCTTCCGCCAGTACCTGCGCATCTGCA
CTGTGCAACCCAATCCTGACTATGGGAGTGCAGTACCTTCTTGAGGAGAGAGCCGCCAGCTGGGTCT
GAGCTGTCAGAAAATAGAGGTGGCGCCTGGCTATGTGATCACTGTGCTGACTTGGCCAGGCACCAACCCG
TTGCTTCAATTCATCTTGCTAAACTCCACACAGATGTGGTACCTGTCTTCAAGGAGCATTGGCATTACG
ACCCCTTTGAAGCCTTCAAGGATTCCGAGGGCTACATCTATGCTAGGGGCGCCAGGACATGAAGAGTGT
CAGCATCCAGTACCTGGAGGCCGTGAGAAGGCTGAAGAGCGAGAGCCACCGGTTCCCCAGAACCATCCAC
ATGACATTTGTGCCTGACGAGGAGGTCCGAGGTCAAGGGGATGGAGTTGTTTGTGAAGAGGCCTGAGT
TCCAGGCTCTGCGGGCAGGCTTTGCTCTGGATGAGGGCCTGGCCAACCCACTGATGCCTTACCCTTTT
TTATAGTGAACGGAGTCTTGGTGGATACGGGTTACCAGCACTGGGAAGCCAGGCCATGCCTCACGCTTC
ATTGAAGATACAGCAGCTGAGAAGTTGCATAAGGTTGTAACCTCCATCTTGGCATTCCGGGAGAAGGAGA
GGCAGAGGCTGCAGGCGAACCCTCACCTGAAGGAAGGGCCGTGACTTCGGTGAATCTGACTAAGCTCGA
GGTGGTGTGGCCTATAATGTGGTACCTGCTACCATGAGTGCCTGTTTTGACTTCCGAGTGGCGCCAGAT
GTAGACATGAAGGCCTTCGAGAAGCAGCTGCAGAGCTGGTGCCAGGAAGCGGGAGAGGGGTACCTTTG
AGTTTGTCTCAGAAGTTTACAGAGCCTCGAATGACACCCACTGATGATACGGACCCCTGGTGGCAGCTTT
CAGCGGGCCTGCAAGGAAATGAACCTCACTCTGGAGCCGGAGATCTTCTGCTGCCACTGACAGCCGT
TATATCCGAGCGGTGGGATCCCAGCTCTGGGCTTCTCGCCATGAACCGCACACCCGTGTTACTACATG
ACCATAACGAACGACTGCACGAGGCTGTGTTTCTACGTGGAGTTGACATATACACGCCTAGTTGCTGC
ACTTGCTAGTGTGCCGCTCTGCCTGGTAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214639 representing NM_001005383
Red=Cloning site Green=Tags(s)

MTSKVPEEEHPSVTLFRQYLRICTVQPNPDYGSAVTFLEERARQLGLSCQKIEVAPGYVITVLTWPGTNP
 LLHSILLNSHTDVPVFKHEWHHDPFEAFKDSEGYIYARGAQDMKSVSIQYLEAVRRLKSESHRFPRTIH
 MTFVPDEEVGGHKGMELFVKRPEFQALRAGFALDEGLANPTDAFTVFYSERSPPWIRVTSTGKPGHASRF
 IEDTAAEKLHKVVNSILAFREKERQRLQANPHLKEGAVTSVNLTKLEGGVAYNVVPATMSACDFRVAPD
 VDMKAFEKQLQSWCQEAGEGVTFEFAQKFTPEPRMTPDTPWAAAFSGACKEMNLTLEPEIFPAATDSR
 YIRAVGIPALGFSPMNRTPVLLHDHNERLHEAVFLRGVDIYTRLVAALASVPALPGES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

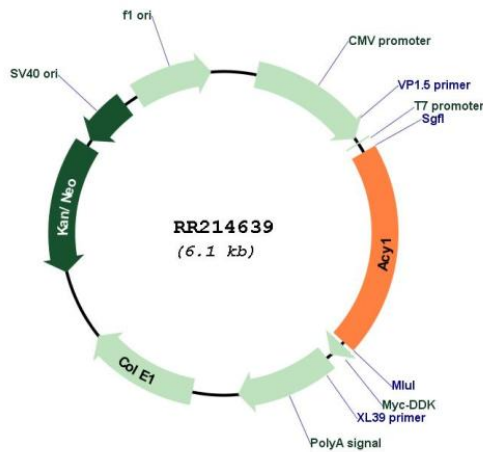
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001005383

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:	<ol style="list-style-type: none">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_001005383.1 , NP_001005383.1
RefSeq Size:	1356 bp
RefSeq ORF:	1227 bp
Locus ID:	300981
UniProt ID:	Q6AYS7
Cytogenetics:	8q32
MW:	45.9 kDa
Gene Summary:	enzyme that displays aminoacylase and/or metallopeptidase functions; may be involved in amino acid metabolism [RGD, Feb 2006]