

Product datasheet for **RR212337**

Acmsd (NM_134372) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acmsd (NM_134372) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acmsd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR212337 representing NM_134372 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAATTGACATCCACTCACATTCTACCAAAGGAATGGCCTGATCTAGAAAAGAGTTTGGCTATG
GAGGCTGGGTGCAGCTCCAACAGCAAGGCAAGGGAGAAGCAAAGATGATGAAAGACGGGAAGTCTTCAG
AGTGATCCAACAGAACTGCTGGGACCCAGAAGTCCGCATCAGAGAAATGAACCAGAAAGGAGTGACAGTG
CAAGCTCTTCCACAGTCCCGTCATGTTTAGTTACTGGGCCAAACCTAAGGACACTTTGGAACCTGTGCC
AGTTTTTAAACAATGACCTCGCTGCCACGGTGGCCAGATACCCTCGAAGGTTTGTGGTGGGGACATT
GCCTATGCAAGCCCCGGGCTGGCTGTCGAGGAGATGGAGCGTTGTGTAAGGAGCTAGGATTTCCAGGA
ATCCAGATTGGATCCCACATCAACATGTGGACCTGAATGACCCGGAACCTCTCCCATCTACACGGCGG
CTGAGAGGCTGAATTGTTCTCTGTTCTGTCATCCCTGGGATATGCAGATGGATGGACGGATGGCCAAATA
CTGGCTGCCTTGCTCGTAGGAATGCCATCGGAGACCACCACGGCCATTTGCTCCATGATCATGGGTGGG
GTGTTTCGAGAAGTTTCCCAAACCAAAGTGTGTTTTGCACATGGAGGTGGTGTCTTCCCTTCCACATAG
GAAGAATTGCTCATGGATTTAACATGCGCCAGATCTCTGTGCCCGGACAATTCATCTGACCCAGAAA
ATACCTGGCTCCTTCTACACGGACTCCCTGGTTCATGATCCTCTGTCTCTCAAGCTATTGACAGATGTT
ATAGGGAAGGATAGAGTTATTCTGGGAAGTATTACCCCTTCCACTAGGTGAGCAGGAGCTGGGAAGT
TGATAGAGTCTATGGCAGACTTTGATGAAGAAACAAAGGATAAACTTACAGCTGGCAATGCCTTGACTTT
TTTGGTCTTGAGAGAAAATTTTGA

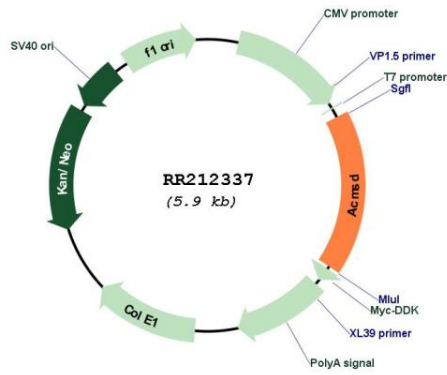
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<u>NM_134372.1</u> , <u>NP_599199.1</u>
RefSeq Size:	1011 bp
RefSeq ORF:	1011 bp
Locus ID:	171385
UniProt ID:	<u>Q8R5M5</u>
Cytogenetics:	13q13
MW:	38.1 kDa
Gene Summary:	Converts alpha-amino-beta-carboxymuconate-epsilon-semialdehyde (ACMS) to alpha-aminomuconate semialdehyde (AMS). ACMS can be converted non-enzymatically to quinolate (QA), a key precursor of NAD, and a potent endogenous excitotoxin of neuronal cells which is implicated in the pathogenesis of various neurodegenerative disorders. In the presence of ACMSD, ACMS is converted to AMS, a benign catabolite. ACMSD ultimately controls the metabolic fate of tryptophan catabolism along the kynurenine pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR212337